

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract**



**Delaware River
Joint Toll Bridge
Commission**

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**TAB 1
INSTRUCTIONS TO PROPOSERS**

**Electronic Surveillance / Detection System (ESS)
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1. DEFINED TERMS

- 1.1 Capitalized terms that are used in these Instructions to PROPOSERS, but not defined in these Instructions to PROPOSERS, shall have the meanings assigned to them in the Contract Documents, including but not limited to, the meaning assigned to them in Tab 6, General Conditions.
- 1.2 "ESS CONTRACTOR" means the person, firm, corporation, or entity undertaking the execution of the Work under the terms of the Agreement and with whom the COMMISSION has entered into the Agreement.
- 1.3 "COMMISSION" means the Delaware River Joint Toll Bridge Commission, party to the Contract, a body corporate and politic, that was created as a bi-state agency by an agreement between the Commonwealth of Pennsylvania and the State of New Jersey executed on December 19, 1934 by the Governor of the Commonwealth of Pennsylvania and executed on December 18, 1934 by the Governor of the State of New Jersey, as thereafter supplemented, modified and amended by supplemental agreements between the Commonwealth of Pennsylvania and the State of New Jersey.
- 1.4 "COMMISSION'S ENGINEER" means the Chief Engineer of the COMMISSION and/or designee.
- 1.5 "PROPOSER" means the individual firm or team that submits Proposal documents for consideration for the Project.
- 1.6 "ESS" represents the Electronic Surveillance / Detection System (ESS).

2. COPIES OF REQUEST FOR PROPOSAL DOCUMENTS

- 2.1 Complete sets of Request for Proposal (RFP) documents shall be used in preparing Proposals; COMMISSION does not assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of RFP documents. The PROPOSER assumes responsibility for errors and omissions related to the Design, Construction, Installation, and Maintenance of the Electronic Surveillance / Detection System (ESS) defined in Tab 6, Article 1, and Definitions.
- 2.2 A complete set of RFP documents includes, without limitation, the following:
 - Tab 1, Instructions to Proposers;
 - Tab 2, Technical Requirements
 - Tab 3, Evaluation Criteria;
 - Tab 4, Price Proposal Instructions;
 - Tab 5, Agreement;
 - Tab 6, General Conditions;

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Tab 7, Supplementary Conditions;
Tab 8, Proposal Forms;
Tab 9, Prevailing Wage Rates;
Tab 10 Exhibits, and
Addenda (which pertain to the RFP).

3. PRE-PROPOSAL CONFERENCE

- 3.1 A Pre-Proposal Conference will be held with COMMISSION personnel, all PROPOSERS, and other interested parties to discuss this Project.
- 3.2 The conference will begin at 9:30 A.M. on April 18, 2018 at the DRJTBC New Hope-Lambertville office located at 2492 River Road, New Hope, PA 18938-9519
- 3.3 All PROPOSERS are expected to provide their own transportation to and from the conference. The COMMISSION will provide transportation for the site visit.

4. EXAMINATION OF CONTRACT DOCUMENTS AND SITE

- 4.1 The PROPOSER shall carefully examine the Site of the proposed Work, the RFP documents, specifications and contract form, and all other RFP documents, for the Work contemplated. Each PROPOSER must judge and satisfy for itself the conditions and obstacles to be encountered, the character, quality and quantities of Work to be performed, the materials to be furnished, and the requirements of the Contract Documents, and the PROPOSER must be prepared to execute the Work in every particular without extra charge whatsoever, except as specifically provided elsewhere in these Contract Documents.
- 4.2 A Site visit will be scheduled to immediately follow the Pre-Proposal Conference. All individuals participating in the Site Visit shall complete and submit in advance of the Site visit a General Release and Indemnification Agreement form which may be found in Tab 8, Forms (8-13). The Site Visit will include the New Hope-Lambertville Toll Bridge and the Centre Bridge-Stockton Toll Supported Bridge.
- 4.3 Space availability at the facility will be shown to PROPOSERS during the Site visit. Space is limited at all of the existing COMMISSION facilities; therefore, PROPOSERS are expected to familiarize themselves with the available space at each facility during the Site visit. The PROPOSERS must take these factors into consideration when designing the facility subsystems and components required to be housed at facility locations.
- 4.4 The lands upon which the Work is to be performed, rights-of-way for access thereto, and other lands designated for use by the ESS CONTRACTOR in performing the Work are identified in the Contract Documents and Exhibits.

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- 4.5 Project related plans, including but not limited to ESS as-built drawings, will also be available for review in a designated room at the COMMISSION Administration Building at 110 Wood and Grove Streets, Morrisville, PA 19067 during normal business hours. PROPOSERS must contact the COMMISSION's Senior Project Manager, W. Michael Cane at wmcane@drjtbc.org to arrange for review of these documents, sign in and out of the room, and no materials may be removed.
- 4.6 The submission of a Proposal will constitute a representation by the PROPOSER that it has complied with every requirement of this Article 4 and that the Contract Documents are sufficient in scope and detail to indicate and convey a complete understanding of all terms and conditions for performance of the Work.

5. CONDITIONS PRIOR TO PROPOSAL SUBMISSION DEADLINE

- 5.1 All questions about the meaning or intent of the Contract Documents shall be emailed to the COMMISSION'S Senior Project Manager, W. Michael Cane at wmcane@drjtbc.org with a copy to Senior Director of Public Safety and Bridge Security, Matthew M. Hartigan at mhartigan@drjtbc.org and Chief Engineer, Roy W. Little at rlittle@drjtbc.org, no later than close of business on April 25, 2018. Written questions received later than close of business on April 25, 2018 will not be answered. Replies to PROPOSER questions will be issued only by posting on the COMMISSION web site. Only questions answered by formal written Addenda posted on the web-site will be binding. Oral and other interpretations or clarifications will be without legal effect. No oral questions will be accepted. All questions must be submitted in writing.
- 5.2 All inquiries during the Proposal period should be addressed to COMMISSION'S Senior Project Manager, W. Michael Cane at wmcane@drjtbc.org with a copy to Senior Director of Public Safety and Bridge Security, Matthew M. Hartigan at mhartigan@drjtbc.org and Chief Engineer, Roy W. Little at rlittle@drjtbc.org.
- 5.3 It shall be the duty of each prospective PROPOSER to determine which Addenda, if any, have been issued by the COMMISSION'S ENGINEER, to ascertain which Addenda may affect the Work to be covered by its Proposal, and to inform its prospective Subcontractors/Subconsultants thereof to the extent that they may be affected.
- 5.4 Failure of any PROPOSER to receive or review any Addendum shall not relieve such PROPOSER from the obligation of its Proposal to respond to the latest and correct version of the RFP, as modified by Addendum. PROPOSERS shall be required to certify in their Proposals that they have received and reviewed all of the addenda as further instructed in Article 10.10 of this document.
- 5.5 When information that supplements the RFP documents (e.g., existing wide area network architecture, as-built plans, etc.) have been provided to PROPOSERS for

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their use in preparing Proposals, such supplemental information is not guaranteed as accurate by the COMMISSION and is not to be considered part of the Contract Documents.

6. PROPOSAL SECURITY

- 6.1 Proposal Security shall be made payable to Delaware River Joint Toll Bridge Commission, in the amount of ten percent (10%) of the PROPOSER's Total Contract Price for the Electronic Surveillance / Detection System (ESS) Maintenance Contract (as shown on Sheet 1 of Price Proposal Forms Tab 8-16). Such security shall be in the form of a certified check, or a Proposal Bond, in the form found in Tab 8, Forms (8-1), issued by a Surety meeting the requirements of the Contract Documents, including, without limitation, Paragraph 6.3 of the Instructions to Proposers. PROPOSERS must submit the Proposal Security as a part of the Price Proposal submission.
- 6.2 The Proposal Security of the selected PROPOSER will be retained by the COMMISSION until such PROPOSER has furnished the required Performance Bond, Payment Bond, Certificates of Insurance, Waiver of Liens, and executed the Agreement; whereupon, it will be returned. If such selected PROPOSER fails to furnish the items above or fails to execute and return the Agreement within the time specified, the COMMISSION may annul Notice of Award and the Proposal Security of that PROPOSER will be forfeited. The Proposal Security of all the PROPOSERS whose price Proposals are opened and read may be retained by the COMMISSION and returned within three (3) days after the execution of the Agreement.
- 6.3 All Proposal Bonds submitted as a Proposal Security shall be executed by surety companies legally authorized to do business in Pennsylvania and New Jersey. All Proposal Bonds submitted as Proposal Security shall be executed by surety companies named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in current Circular 570 by the Audit Staff Bureau of Accounts, U.S. Treasury Department and the amount of said Proposal Bonds in question must not exceed the acceptable limit therein recommended for such Proposal Bond. Attorneys-in-Fact who sign Proposal Bonds must file with each Proposal Bond a certified copy of their Power of Attorney to sign said Proposal Bond, bearing the same date as the Proposal Bond.

7. PROJECT SCHEDULE

- 7.1 The COMMISSION has established the following tentative milestones for the Project that is subject to change. This list is not intended to include all Project milestones in the Project, but to present planned major milestones and to allow the PROPOSER sufficient detail to develop a meaningful implementation schedule.

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PROPOSERS may identify and propose changes to the interim milestones on the schedule.

Milestone Description	Estimated Dates
1. Notice of Award	7/31/2018
2. Notice to Proceed	8/29/2018
3. Start Maintenance – Years 1 - 3	10/1/2018
4. Substantial Completion - Phase 1	2/1/2019
5. Substantial Completion - Phase 2	2/1/2109
6. Substantial Completion - Phase 3	4/1/2019
7. Substantial Completion - Phase 4	9/30/2019
8. Substantial Completion – Phase 5	9/30/2019
9. Start Maintenance Option – Year 4	10/1/2021
10. Start Maintenance Option – Year 5	10/1/2022

8. LIQUIDATED DAMAGES

- 8.1 See RFP Tab 5, Agreement, Article 3.02.

9. SUBCONTRACTORS AND KEY PERSONNEL

- 9.1 The PROPOSER will submit to the COMMISSION a list of Subcontractors, as defined in RFP Tab 6, General Conditions, vendors, and other persons and organizations including, without limitation, those who are to furnish the principal items of material and equipment. Key personnel shall also be identified. The COMMISSION shall have the right to object to such Subcontractor, person, or organization and in such case the ESS CONTRACTOR shall retain a substitute Subcontractor, person, or organization, acceptable to the COMMISSION, without an increase in the Contract Price.
- 9.2 As part of the Technical Proposal, key personnel on the ESS CONTRACTOR will be identified with the stipulation that no changes or substitutions of any of these key personnel will be allowed without prior written approval of the COMMISSION.
- 9.3 The ESS CONTRACTOR shall perform the largest percentage of the portion of the Work, among all teaming members as measured in dollar value.

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10. PROPOSAL

- 10.1 Price Proposal Instructions are included in the RFP Tab 4. Price Proposal Forms are included in Tab 8.
- 10.2 PROPOSERS shall complete and submit a detailed Price Proposal of the total direct and indirect costs to complete all tasks identified in the RFP. PROPOSERS shall provide all required detail for each element of the Project using the cost breakdown shown in all price schedules. RFP Tab 4, Price Proposal Instructions, and RFP Tab 8-16, Price Proposal Forms will serve among other items as a basis for the COMMISSION to evaluate the Price Proposal.
- 10.3 PROPOSERS must not include any information regarding the costs submitted in the detailed Price Proposal in the written Technical Proposal. The detailed Price Proposal must be submitted in a separate sealed envelope as further described in Article 23.3.
- 10.4 All Price Proposal forms must be completed and signed in the designated areas on each page.
- 10.5 The Price Proposal Forms must be completed in accordance with the Price Proposal Instructions and in a permanent and legible fashion as instructed in Tab 4.
- 10.6 Estimates of quantities noted on the Price Schedules are approximate, may be subject to change, and have been used as a basis for estimating the cost of Work. These quantities will be used for the purpose of tabulating, comparing and evaluating Proposals and awarding the Contract. PROPOSERS should provide quantities in their Proposals sufficient to meet all of the performance requirements.
- 10.7 Proposals by corporations or other legal business entities such as partnerships or limited liability companies (LLCs) must be executed in the corporate or company name of the PROPOSER by the president or vice president (or other person having authority to bind the corporation or company, accompanied by corporate power of attorney), and the corporate seal or company seal must be affixed and attested by the secretary or an assistant secretary. The corporate or company address and state of incorporation, registration or DBA shall be shown below the signature.
- 10.8 Proposals by joint ventures must be executed in the joint venture name and by both joint venture entities by a person having authority to bind the entity, whose title must appear under the signature and the official address of the joint venture must be shown below the signature. In the case of a Proposal submitted by a joint venture, both joint venture entities must be identified in the Proposal documents and a Non-Collusion Affidavit provided in Tab 8, Proposal Forms must be submitted on behalf of each joint venture entity.

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- 10.9 All names must be typed or printed along with the signature and where required a date shall be entered.
- 10.10 The Proposal shall contain an acknowledgment of receipt of all Addenda (the addenda numbers and issue dates of which shall be identified and noted on the Proposal).
- 10.11 The mailing address to which communications regarding the Proposals are to be directed must be shown along with the name, phone number, and email address of the PROPOSER primary contact.

11. MODIFICATION AND WITHDRAWAL OF PROPOSALS

- 11.1 A Proposal may be withdrawn by written request submitted to the COMMISSION prior to the scheduled Proposal submission deadline, or authorized postponement thereof. No PROPOSER may withdraw its Proposal after the scheduled deadline for submission of Proposals.

12. IRREGULAR PROPOSALS

- 12.1 Proposals may be rejected if they show any omissions, alterations of form, additions not called for, conditions, or unauthorized alternate Proposals, or irregularities of any kind.

13. AWARD OF CONTRACT

- 13.1 The COMMISSION reserves the right to reject all Proposals, to waive any and all informalities, and to refuse to consider nonconforming, non-responsive or conditional Proposals. Without limiting the foregoing, the COMMISSION reserves the right to reject any Proposal submitted from a PROPOSER that has failed to comply with all applicable standards, codes, laws, ordinances, regulations and/or requirements of any state, federal or other agency on any previous project. Discrepancies between words and figures will be resolved in favor of words. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.
- 13.2 The COMMISSION will evaluate Proposals in accordance with RFP Tab 3, Evaluation Criteria, including, but not limited to price.
- 13.3 PROPOSERS may be invited to participate in an interview process with the COMMISSION. Following interviews, the highest ranked PROPOSERS may be asked to participate in a negotiations process. After such negotiations are conducted with each of the PROPOSERS so selected, the COMMISSION may ask for best and final offers (BAFOs).

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- 13.4 The COMMISSION may consider the qualifications and experience of Subcontractors/subconsultants and other persons and organizations including, without limitation, those who are to furnish the principal items of material or equipment. Operating costs, maintenance considerations, life-cycle costs, performance data, and guarantees of materials and equipment may also be considered by the COMMISSION.
- 13.5 Should the COMMISSION determine in writing in its sole discretion that only one (1) PROPOSER is fully qualified, or that one (1) PROPOSER is clearly more highly qualified than the others under consideration, a contract may be negotiated and awarded to that PROPOSER.
- 13.6 Determination of which PROPOSER shall receive the Notice of Award shall be made by the COMMISSION as the COMMISSION determines, in its sole discretion, based upon the RFP Tab 3, Evaluation Criteria. In making its selection, the COMMISSION is not required to accept the lowest price and may, in its sole discretion, reject any Proposals that are not responsive to the stated requirements, or may elect to waive some or all irregularities in any Proposal. The waiver or non-waiver of any specific irregularity will not imply or compel similar treatment of any irregularity. There shall be no debriefings of the unsuccessful PROPOSERS and the COMMISSION is not required to furnish a statement of reason explaining the rationale behind the award of the Contract or why a particular Proposal was selected.
- 13.7 In the event of a dispute between a PROPOSER and the COMMISSION regarding the COMMISSION'S determination of which PROPOSER shall receive the Notice of Award, such contesting PROPOSER shall be responsible for any legal fees (e.g., fees of attorneys, paralegals and other legal professionals), professional fees, or other costs or expenses incurred by the COMMISSION. The contesting PROPOSER shall pay such legal fees, professional fees, or other costs or expenses within seven (7) days of receipt of the COMMISSION'S invoice or the COMMISSION may deduct such legal fees, professional fees, or other costs or expenses from the Proposal Security. Furthermore, under no circumstances shall the COMMISSION be responsible for any legal fees, professional fees, or other costs or expenses incurred by a contesting PROPOSER.
- 13.8 The PROPOSER submits its Proposal with the definite understanding that the Proposal is valid for acceptance by the COMMISSION and may not be withdrawn by the PROPOSER for a period of at least one hundred eighty (180) days after the Proposal submission deadline.

14. BONDS AND INSURANCE

- 14.1 The selected ESS CONTRACTOR shall furnish Performance and Payment Bonds each in an amount equal to 100% of the total Price for System Enhancements

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(Phases 1 thru 5) and Unforeseen Work Allowance as shown on Sheet 1 of RFP Tab 8-16, Price Proposal Forms. The selected ESS CONTRACTOR shall also furnish a Maintenance Bond in the amount of 100% of the annual value of the Maintenance portion of the Contract, such Maintenance Bond to be renewed annually for the duration of the Maintenance Contract.

- 14.2 Certificates of insurance shall also be provided as required by Article 5 of Tab 6, General Conditions to the office of the COMMISSION unless otherwise specified. The selected ESS CONTRACTOR shall pay all premiums in respect of such bonds and insurance.

15. SIGNING OF AGREEMENT

- 15.1 Refer to RFP Tab 5, Agreement.

16. SUBSURFACE CONDITIONS

- 16.1 Refer to RFP Tab 6, General Conditions, and RFP Tab 7, Supplementary Conditions.

17. PERMITS

- 17.1 Refer to RFP Tab 6, General Conditions.

18. TAXES

- 18.1 Refer to RFP Tab 6, General Conditions.

19. ESS CONTRACTOR'S OFFICE

- 19.1 The ESS CONTRACTOR must have an established, fully staffed office within a two (2) hour drive of the COMMISSION'S Executive Offices located at the New Hope-Lambertville Toll Bridge facility or be willing to establish an office in such area.

20. ESS CONTRACTOR'S STORAGE AREA

- 20.1 At each location, the COMMISSION-owned property is extremely limited. The ESS CONTRACTOR is encouraged to make arrangement with local property owners for storage/staging areas if applicable to the requirements of this Project. The ESS CONTRACTOR shall not use any COMMISSION property without prior written approval from the COMMISSION ENGINEER or other COMMISSION designated representative. If any portion of the COMMISSION property is used, the ESS CONTRACTOR shall be responsible for providing all insurance and security including, without limitation, illumination for the site. Upon completion of the Work the ESS CONTRACTOR shall restore the site to its original condition. All costs for establishing and restoring the site shall be incidental to the Work being performed.

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21. FAMILIARITY WITH LAWS, CODES, STANDARDS AND REGULATIONS

- 21.1 The PROPOSER shall familiarize itself with all federal, state and local laws, including, without limitation, the latest amended municipal building codes, rules and regulations which in any manner affect those engaged or employed in the Work, or the materials and equipment used in the Work or in any way affecting the Work, and no plea of misunderstanding will be considered on account of ignorance thereof. If the PROPOSER shall discover any provision in the Contract Documents which is contrary to or inconsistent with any law, ordinance, rule or regulation, the PROPOSER shall forthwith report it to the COMMISSION'S ENGINEER in writing at least fourteen (14) days prior to the Proposal submission deadline.

22. NON-COLLUSION AFFIDAVIT

- 22.1 The Non-Collusion Affidavit is material to any contract awarded pursuant to the RFP. According to the Pennsylvania Antibid-rigging Act, 73 P.S. 1611 et seq., governmental agencies may require Non-Collusion Affidavits to be submitted together with the Proposal.
- 22.2 The Non-Collusion Affidavit must be executed by the member, officer, or employee of the PROPOSER who makes the final decision on prices and the amount quoted in the Proposal.
- 22.3 Bid-rigging and other efforts to restrain competition and the making of false sworn statements in connection with the submission of Proposals are unlawful and may be subject to criminal prosecution. The person who signs the affidavit should examine it carefully before signing and assure himself or herself that each statement is true and accurate, making diligent inquiry, as necessary, of all other persons employed by or associated with the PROPOSER with responsibilities for the preparation, approval or submission of the Proposal.

23. PROPOSAL SUBMISSION REQUIREMENTS

- 23.1 All Proposals must be delivered to the COMMISSION Administration Building at 110 Wood and Grove Streets, Morrisville, PA 19067. All Proposals must be received by 3:00 PM ET on May 15, 2018. Postmarks will not be accepted in lieu of this requirement.
- 23.2 All PROPOSERS must submit one (1) original and twelve (12) copies of their Technical Proposal and a Letter of Transmittal (not to exceed one (1) single-sided, letter-sized (8.5" x 11") page). A CD-ROMs shall also be provided for each copy of the Technical Proposal. Such CD shall contain the Technical Proposal in its entirety, in electronic format. The name of the PROPOSER, the project title and the title "Technical Proposal" shall be clearly written on the sealed envelope, along with

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the package number (e.g., 1 of x, 2 of x). The file format shall be Adobe Acrobat. A scanned electronic copy of all required certifications shall also be provided on the PROPOSER's CD-ROM.

- 23.3 One (1) original detailed Price Proposal shall be submitted in a separate sealed envelope, along with twelve (12) hard copies and a separate CD-ROM containing the Price Proposal in electronic format. The name of the PROPOSER, the project title and the title "Price Proposal" shall be clearly written on the sealed envelope, along with the package number (e.g., 1 of x, 2 of x). The file format for the electronic copy of the Price Proposal shall be Microsoft Excel. The CD-ROM containing the Cost Proposal shall be clearly labeled as such.
- 23.4 PROPOSERS must submit Proposals and completed associated price schedules for all work identified in this RFP, including options.
- 23.5 All PROPOSERS are required to submit Technical Proposals in accordance with the requirements specified herein. Technical Proposals are limited to twenty (20) pages. Items identified in Proposal Sections 5 and 6 as set forth in this Article 23.5, Appendices and other items specifically noted in these Instructions to PROPOSERS (such as all required forms; Executive Summary; project implementation schedule; project organization charts in Sections 2 and 3 of this article; references and resumes in Section 4 of this article; Bill of Materials and product cut sheets, and Exceptions in Section 7 of this Article) as excluded are not included in this page limitation. The Proposals shall be organized as follows:
- Executive Summary
Include a 2-3 page overview of the entire Proposal describing the most important elements of the Proposal (Not included in page limit).
 - Section 1: Project Approach
 - 1) PROPOSERS should describe the technical approach to the Project and how the PROPOSER will plan for and accommodate each aspect of the Project scope. The Proposal should carefully address each section and all of the functional and technical requirements specified in Tab 2, Technical Requirements. This section should address the following:
 - 2) Provide a preliminary bill of materials (BOM) as an attachment, as described in Section 2 of RFP Tab 2, Technical Requirements.
 - 3) Describe clearly and with the aid of diagrams and flow charts the proposed technical approach for the migration and upgrade process and schedule for all hardware and software described in Tab 2.
 - 4) Provide a description and a diagram of the System network architecture that includes all new hardware installed under this contract.

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- 5) Discuss PROPOSER's adherence to the performance requirements and explain how PROPOSER will meet or exceed key specific performance requirements of the Project (refer to Section 2.0 of RFP Tab 2, Technical Requirements). Provide, where available, examples of how performance requirements were met or exceeded on other similar projects and how the performance was measured.
 - 6) Specifically address PROPOSER's approach and strategy to successfully work and cooperate with existing provider to integrate PROPOSER's hardware and software into the existing ESS system.
 - 7) Discuss PROPOSER's approach and strategy to incorporate the scope of work for the existing Access Control System or the PROPOSER's alternative approach to maintaining the Access Control System component of the ESS System.
 - 8) Discuss PROPOSER's approach to satisfying the reporting requirements of the Project, highlighting any specific and unique features of PROPOSER's reporting system relating to performance reporting and other types of reports.
 - 9) Discuss PROPOSER's approach to transitioning from existing provider all maintenance services and transfer of knowledge prior to the end of contract of Schneider Electric for the ESS System including the LAN communication systems and identify what are anticipated by PROPOSER to be major transition issues and how these issues shall be addressed.
 - 10) Discuss the installation process and how PROPOSER intends to meet requirements identified in Section 4 of RFP Tab 2, Technical Requirements. Discuss PROPOSER's plans and ideas for coordination of installation with COMMISSION construction contractor(s) and the existing systems integrator.
 - 11) Discuss PROPOSER's approach to testing and system acceptance, as described in Section 5 of RFP Tab 2, Technical Requirements. Discuss, including PROPOSER's overall test plan approach, how system testing is conducted, and specifically what tests, test functions, and test methods are being proposed to ensure system meets the requirements of the Contract.
- Section 2: Project Approach to System Enhancements

Technical Solution – PROPOSERS shall submit a technical approach that addresses all Project requirements and objectives, including, without limitation the following:

 - 1) System Integration: logic, advantages and proven approach
 - 2) System performance and reliability: proposed system performance and actual documented performance of installed systems on similar projects

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- 3) Use of components and software proven in service on similar projects
- 4) Evidence of willingness to exceed project requirements
- 5) System flexibility and upgradeability
- 6) Ability to work and perform in a multi-solution, multi-vendor environment

System Design – PROPOSERS shall submit a comprehensive Design for the ESS that clearly and adequately addresses requirements of the RFP. The focus of Design evaluation will be on:

- 1) Design logic
- 2) Advantages and,
- 3) Proven approach, in combination with the technical solution elements discussed above.

Technical Innovation – PROPOSERS shall demonstrate innovation in the Design, integration and the use of equipment. Innovation is defined as providing a robust system that is scalable/expandable to accommodate the addition of new sub-systems and ESS locations; maximizes the ability to interface with both COMMISSION systems and external systems, (current and anticipated) and permits obtaining maximum system life.

- Section 3: Project Approach to Maintenance and Warranty
 - 1) Describe proposed approach to address maintenance requirements specified in Section 6.7 of RFP Tab 2, Technical Requirements. PROPOSERS must provide an organizational chart that details how all required maintenance functions will be staffed, with intended level of effort. Include location of staff and hours of work.
 - 2) Highlight specifically how PROPOSER intends to meet the major elements of the ESS maintenance requirements.
 - 3) PROPOSERS should clearly identify any maintenance services not covered under the required monthly maintenance. All rates and costs for work not included in the proposed maintenance scope must be in accordance with the Unit Pricing Summary Sheet 5 in RFP Tab 8 -16, Price Proposal Forms.
 - 4) PROPOSERS should also identify elements of the Proposal that will ensure ongoing delivery of a quality maintenance program.
 - 5) PROPOSERS should discuss key elements of both software and hardware warranty.

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- Section 4: Project Schedule and Project Plan
 - 1) Provide a preliminary Project Implementation Schedule in MS Project format, following the parameters outlined in Section 3.2 of RFP Tab 2, Technical Requirements, PROPOSERS should also specifically address in the written Proposal the approach for delivering the system in the timeframe specified, highlighting the major challenges and issues and key areas of PROPOSER's approach to meeting the Critical Project Milestones as defined in Article 20 of Tab 7, Supplementary Conditions.
 - 2) Include 11x17 resource loaded schedule (not included within page limit). ***All major elements of the Technical Specifications should be addressed in PROPOSER's implementation schedule.***
 - 3) Provide a detailed description of the Program Management Plan, as discussed in Section 3.6 of RFP Tab 2, Technical Requirements that demonstrates how the PROPOSER plans to implement and manage the Project including staffing, scheduling, communications, controls, and reporting. Identify the key elements of the Program Management Plan.
 - 4) Include 11x17 org chart (not included within page limit).
 - 5) Provide a discussion of PROPOSER's Quality Assurance Plan, as discussed in Section 3.10 of RFP Tab 2, Technical Requirements that summarizes PROPOSER's program for quality assurance from design and development through production, software development, installation, testing, warranty, and maintenance. Highlight key elements of the PROPOSER's Quality Assurance/Quality Control (QA/QC) Program and what quality certifications and processes PROPOSER would put into place to ensure they are implemented as planned.
- Section 5: Project Team Qualifications and Demonstrated Experience:
 - 1) Describe the PROPOSER's experience in completing similar Projects to this Project. Experience with the installation, implementation, and maintenance of an electronic surveillance system and intrusion detection systems will be considered in the evaluation.
 - 2) All PROPOSERS must complete the PROPOSER Reference Forms included in RFP Tab 8, Proposal Forms to list two (2) projects that specifically cover electronic surveillance and detection technology updates of a similar nature that have been successfully completed by the PROPOSER or its subcontractor. This includes the implementation of systems that have both video surveillance and access control components.

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- 3) All PROPOSERS must complete the PROPOSER Reference Forms included in RFP Tab 8, Proposal Forms to list two (2) projects that specifically cover maintenance of electronic surveillance and detection systems of a similar nature that have been successfully completed by the PROPOSER or its subcontractor. This includes the maintenance of systems that have both video surveillance and access control components.
- 4) At the PROPOSER's discretion, one (1) project currently being performed may be submitted for consideration as one (1) of the references for each of the experience listings required in the two bullets above. Preference will be given to projects that have successfully been completed by the PROPOSER, and where permitted, a qualified Subcontractor.
- 5) The following elements should be included in the project experience description, including those required in the PROPOSER Reference Form (**Reference Form Part 1**):
 - a. For each completed project, provide the name of the company and project manager the PROPOSER performed work for, with current contact information; and specify the type of work that was performed, and the total dollar value of the contract(s) governing said work.
 - b. Include a brief description of the work that was performed, including the type of equipment and systems that were installed, documentation on the actual system performance, and a comparison of the example project to this RFP work scope.
 - c. Identify key personnel on these projects and what role, if any, these key personnel are proposed to play on this Project.
 - d. Failure to provide up-to-date contact information for references may result in impacts to the PROPOSER reference scoring.
- 6) Describe the experience and provide resumes (not to exceed two (2) pages per team member) of PROPOSER's key Project team members, with the stipulation that no changes or substitutions of any of these key personnel will be allowed without prior written approval of the COMMISSION.
- 7) Submit a list of Subcontractors, vendors, and other persons and organizations, which are to furnish the principal items of material and equipment. Such a list shall be accompanied by an experience statement with pertinent information as to similar projects and other evidence of qualification for each such Subcontractor, person, and organization.

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- 8) In addition, using the Key Experience form in RFP Tab 8, Proposal Forms (**Reference Forms Part 2**), identify experience, including the team's project manager, and key staff members, on projects of similar size, capacity, and dollar value. For at least two (2) similar projects, PROPOSERS must complete the Key Experience form and include the client's name and telephone number as directed. Key personnel must have the following experience:
- a. Project Principal: Shall have been full time employee of the PROPOSER for at least one (1) year and have a minimum of ten (10) years of experience in the electronic surveillance and intrusion detection industry, with five (5) years of senior management responsibility for major projects. Shall have senior management responsibility for at least one (1) project of \$5 Million or more in value.
 - b. Project Manager: Shall have at least five (5) years' experience in ESS Systems, of which the last three (3) years shall have been as project manager for electronic surveillance and intrusion detection projects. Shall have been project manager for at least one (1) project of \$5 Million or more in value.
 - c. Quality Assurance Manager: Shall have been a quality assurance manager for at least five (5) years on similar projects, with at least one (1) project as quality assurance manager of an electronic surveillance and intrusion detection project of \$5 Million or more in value.
 - d. Assistant Project Manager: Shall have at least three (3) years' experience in the electronic surveillance and intrusion detection industry, with at least two (2) years of management work on electronic surveillance and intrusion detection projects.
 - e. Solutions Architect: Shall have a minimum of five (5) years of system engineering and hands-on experience with the software and hardware requirements specified in this RFP, including at least two (2) years' experience implementing multi-server designs and configurations of electronic surveillance and detection projects.
 - f. System Engineer: Shall have at least five (5) years of hands-on experience with systems comprising of electronic surveillance and intrusion detection, with at least five (5) years' experience of product delivery, implementation, and configuration, support of electronic surveillance and intrusion detection systems.

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g. Maintenance Manager: Shall have at least ten (10) years' experience in maintaining systems with at least five (5) years' experience in the management of maintenance of electronic surveillance and intrusion detection systems.

- Section 6: Firm Capabilities
 - 1) Completed Projects - Nature, quality, and relevance of completed projects.
 - 2) Firm Commitments – Other on-going commitments and priorities that could impact this Project.
 - 3) Senior Staff – Availability of senior staff to oversee and guide Project.
 - 4) Corporate Resources - Evidence of overall corporate resources available to ensure completion of Project
 - 5) Financial Resources- Financial stability and strength of the firm/team.
- Section 7: Proposal Forms (Submit completed forms provided in Tab 8, Proposal Forms unless otherwise identified)
 - 1) Proposal Bond
 - 2) Confidentiality Statement - A signed Confidentiality Statement to be executed by an officer of the named PROPOSER or by its duly authorized representative.
 - 3) Certification of Compliance with Bonding Requirements
 - 4) Certification of Compliance with Affirmative Action Requirements
 - 5) Insurance and Indemnification Certification Form – PROPOSERS are required to submit a signed and notarized letter from their insurance broker/agent stating compliance with the Insurance Requirements specified in RFP Tab 6, General Conditions as noted under the "Certificate of Insurance" heading.
 - 6) Non-Collusion Affidavit
 - 7) Certificate of Eligibility
 - 8) ESS CONTRACTOR Reference Form Parts 1 and 2
 - 9) Conflict of Interest and Recusal Certification Form
 - 10) Payment Bond (not required to be submitted with proposal)
 - 11) Performance Bond (not required to be submitted with proposal)
 - 12) Waiver of Liens (not required to be submitted with proposal)

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- 13) General Release and Indemnification Agreement
 - 14) Maintenance Bond (not required to be submitted with proposal)
 - 15) Requirements Conformance Tables
 - 16) Price Proposal Forms: All PROPOSERS are required to submit Price Proposals in accordance with the requirements specified in RFP Tab 4, Price Proposal Instructions, including but not limited to, submitting proposal in a separate sealed envelope.
 - 17) Qualification Statement
 - 18) Contractor Responsibility Certification
 - 19) Sample Insurance Broker/Agent Letter
- Section 8: Exceptions
 - 1) If PROPOSERS take exception to any Proposal Requirements, Agreement, General Conditions, and/or Supplementary Conditions, such exceptions must be specified, detailed, and submitted under this Section in a separate certification.
 - 2) All PROPOSERS shall also be required to complete and submit the Table of Conformance, included in Tab 8, Proposal Forms, which covers each of the requirements in RFP Tab 2, Technical Requirements. If the PROPOSER does not comply with any requirement(s) of the Technical Requirements, the specific requirement(s) to which exception is taken must be identified on the Table of Conformance and explained.
 - 3) PROPOSERS shall not identify any exceptions on the price sheets in Tab 8, Proposal Forms. All exceptions should be noted in the certification provided for in this Section 6 of the Proposal or in the Table of Conformance in Tab 8, Proposal Forms, as directed in the manner set forth above.
 - 4) Failure to take exception in the manner set forth above will be deemed a waiver of any objection. Exceptions may be considered during the Proposal evaluation process at the sole discretion of the COMMISSION.

PROPOSERS shall submit the following materials in the form of Appendices

Appendix 1: Product Cut Sheets for key system components as described in the Project Approach

Appendix 2: Preliminary Bill of Materials (BOM) that details all equipment provided and will become the basis for the spare parts list.

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Appendix 3: Provide all required certifications including, but not limited to, those referenced in Tab 2 – Technical Requirements / Section 6.23 – Key Relationships.

Appendix 4: Completed IBE Participation Forms shall be submitted as discussed in Article 2 of RFP Tab 7, Supplementary Conditions. The participation target for IBE certified firms is 25%. PROPOSERS shall indicate in their Technical Proposals their commitment to the IBE utilization target for this contract. This information shall be submitted on the Professional Service Forms available directly from the COMMISSION's website (www.drjtbc.org) in the Contract Compliance section under the Doing Business link. Copies of current certifications of all IBE firms shall also be submitted.

24. MINIMUM PROPOSAL REQUIREMENTS

- 24.1 Proposals should meet the following conditions in the sole discretion of the COMMISSION in order to be considered qualified:
- a. PROPOSER is physically organized and equipped and has the financial ability to undertake and complete the Project.
 - b. PROPOSER is a corporation (or other legal business entity) authorized to do business in the Commonwealth of Pennsylvania and the State of New Jersey.
 - c. There are no legal actions or claims against the PROPOSER that would serve to disqualify.
 - d. Proposal meets the form and format requirements specified in the RFP.
 - e. All forms, documents, and certifications are completed, signed, and properly executed.
 - f. The PROPOSER, in combination with its Subcontractors, has minimum experience of two (2) Electronic Surveillance / Detection System (ESS) projects of a similar nature to the scope of work in this Project for each of the Implementation and Maintenance phases.
 - g. PROPOSER has submitted and completed Tables of Conformance (Tab 8, Proposal Forms) and has certified all exceptions taken to the RFP in a signed statement. The Tables of Conformance must be signed by a person authorized to conduct business for PROPOSER.
 - h. PROPOSER is not currently in bankruptcy proceedings.
 - i. PROPOSER provides the required surety commitment letter as evidence of capacity to obtain the Bonds required in this RFP

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Notwithstanding the foregoing, the COMMISSION reserves the right to waive any and all informalities, and to refuse to consider non-conforming, non-responsive, or conditional proposals; however, the COMMISSION is under no obligation to do so.

25. SCHEDULE FOR NOMINATION, SELECTION, AND AWARD

- 25.1 The COMMISSION anticipates the process for nominating and selecting the ESS CONTRACTOR, and awarding the contract will be according to the following tentative schedule (all dates are subject to change):

#	Milestone	Estimated Date
1.	Issue RFP	April 3, 2018
2.	Pre-Proposal Conference	April 18, 2018
3.	Last Day to Submit Questions Regarding RFP	April 25, 2018
4.	Proposal Due Date	May 15, 2018
5.	Oral Interviews (if utilized)	May 30, 2018 – May 31, 2018
6.	Negotiations (if utilized)	June 25, 2018 – July 8, 2018
7.	Selection and Notification of Award	July 31, 2018
8.	Notice to Proceed	August 29, 2018

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**TAB 2
TECHNICAL REQUIREMENTS**

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DEFINED TERMS

Capitalized terms which are used in these Technical Requirements, but not defined in these Technical Requirements, shall have the meaning assigned to them in the Contract Documents, including, but not limited to, the meaning assigned to them in the General Conditions.

As-Built Drawings: The drawings prepared, signed and sealed by the ESS CONTRACTOR and submitted and Approved in writing by the COMMISSION as prepared after the completion of the Construction on the Project that illustrate the actual Construction of the Project, including, without limitation, all changes to the Work.

Business Day: The twenty-four (24) hour day expressed from 2300 to 2259 in military time (11:00 PM to 10:59 PM).

Business Month: A month utilized for reporting purposes with the last day of the previous calendar month beginning at 2300 (11:00 PM) and the last day of the calendar month ending at 2259 (10:59 PM).

Business Rules: A set of rules proposed by the ESS CONTRACTOR and Approved by the COMMISSION that defines how the Electronic Surveillance / Detection System (ESS) should respond to various situations that occur during the ESS operation based on business case and policy decisions made by the COMMISSION, as the same may be amended from time to time by written Contract between the COMMISSION and the ESS CONTRACTOR.

Commercial Off-The-Shelf (COTS): Hardware and software readily available through the general procurement system with most ESS CONTRACTORS.

Commissioning Test: The testing performed on the Electronic Surveillance / Detection System (ESS) hardware and software before being accepted by the COMMISSION and considered operational.

Corrective maintenance: A maintenance task performed to identify, isolate, and rectify a fault so that the failed ESS, its object or item of equipment can be restored to an operational condition within the tolerances or limits established for in-service operations and perform its intended function.

Customized Hardware: Hardware specifically designed and fabricated by the ESS CONTRACTOR for use on the Electronic Surveillance / Detection System (ESS).

ESS CONTRACTOR: Means the person, firm, corporation, or entity responsible for the Design, implementation, operation, and maintenance of the entire Electronic Surveillance / Detection System (ESS).

Disaster Recovery Plan: The document developed by the ESS CONTRACTOR details the disaster recovery process for the Project.

Electronic Surveillance/Detection System (ESS): is a fully integrated system consisting of Access Control System (ACS), Video Management System (VMS), Video Analytics (VA), Primary Control Center (PCC), Secondary Control Center (SCC) and supporting systems such as Active Directory (AD) Services, Anti-Virus (AV) Services, Asset Management Technology, Local Area Network (LAN) at each site, Wide Area Network (WAN), Uninterrupted Power Supply

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(UPS), generators, sensors, Heating Ventilation and Air Conditioning (HVAC), Electrical systems, etc.

Factory Acceptance Test (FAT): This test is performed for each Technology Update Phase before the installation of the equipment at the COMMISSIONS facilities. The FAT confirms that all technical and functional requirements have been met.

False Alarm Rate (FAR): An erroneous detection in video analytics caused by noise or other interfering signals.

Graphical User Interface (GUI): A software screen representation.

Interface Control Document (ICD): An interface control document describes the relationship between two components of a system or sub-system in terms of data items and messages passed, protocols observed and timing and sequencing of events.

Maintenance Plan: The document developed by the ESS CONTRACTOR as described in Section 6.2 of these Technical Requirements that details the ESS CONTRACTOR'S maintenance activities for the Project.

Master Test Plan: The document developed by the ESS CONTRACTOR as described in Section 5.1.1 of these Technical Requirements that details the testing activities of the Project.

Mean Time Between Failure (MTBF): The predicted elapsed time between inherent failures of a system during operation.

Operational Acceptance Test: The test conducted for each phase of the Technology Updates after the equipment has been installed and has successfully passed the Site Acceptance Test. This test ensures that the equipment can operate reliably for an extended period of time (30 days).

Operational maintenance: The care and minor maintenance of equipment using procedures that do not require detailed technical knowledge of the equipment's or system's function and design. This normally consists of inspecting, cleaning, servicing, preserving, lubricating, and adjusting, as required.

Probability of Detection (POD): The capability of a video analytics system in detecting an event. The number of detected events as a percentage of actual occurrences of the event.

Pre-Determined Amount (PDA): An allowance provided for work to be done in support of this Contract in the form of a Subcontract to the ESS CONTRACTOR.

Preventive Maintenance (PM): Any variety of time based maintenance activity to the ESS system, its object or item of equipment. PM is a scheduled service visit carried out by a competent and suitable technician/engineer, to ensure that an item of equipment is operating correctly and at reliability condition equivalent that of the "constant failure rate" of the "bathtub curve" and therefore avoid any unscheduled breakdown and downtime.

Project Management Plan: The plan developed by the ESS CONTRACTOR and accepted by the COMMISSION that defines the ESS CONTRACTOR'S role and staffing in regards to

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accomplishing a successful installation, integration, deployment, and maintenance of the Electronic Surveillance / Detection System (ESS).

Quality Assurance Plan: The document developed by the ESS CONTRACTOR as described in Section 3.11.1 of these Technical Requirements that details the ESS CONTRACTOR'S quality assurance program and process.

Small form-factor pluggable (SFP) transceiver: optical module transceiver used for fiber optic connections.

Site Acceptance Test: The test conducted for each phase of the Technology Updates after the equipment is commissioned and deployed to ensure and verify the ESS System technical and functional requirements have been satisfied.

Training Plan: The document developed by the ESS CONTRACTOR as described in Section 3.12 of these Technical Requirements that details the ESS CONTRACTOR'S training activities for the Project.

Uninterruptible Power Supply (UPS): A battery backup power system in the event utility power becomes unavailable.

Unit Under Maintenance (UUM): Any specific unit, subsystem or ESS component on which maintenance is performed.

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1 SCOPE OF WORK

1.1 PROJECT OVERVIEW

The Delaware River Joint Toll Bridge Commission (Commission), was created in 1934 to acquire, construct, rehabilitate, improve, maintain, repair and operate bridges for vehicular and pedestrian traffic across the Delaware River between the Commonwealth of Pennsylvania and the State of New Jersey from the Philadelphia, Bucks County line to the New York State line, a distance of approximately 139 miles. The Commission owns and operates 20 toll and toll-supported bridges from Morrisville, Pennsylvania in the south, to Milford, Pennsylvania in the north, as shown in Figure 1. The Commission has numerous Operations & Maintenance buildings and garages located throughout its jurisdiction to support the efforts required to manage its bridges.

The Electronic Surveillance / Detection System (ESS) of the COMMISSION is a fully integrated system consisting of: Access Control System (ACS), Video Management System (VMS), Video Analytics (VA) (a System Enhancement under this contract), Primary Control Center (PCC), Secondary Control Center (SCC) and supporting systems such as Active Directory (AD) Services, Anti-Virus (AV) Services, Asset Management platform, Local Area Network (LAN) at each site, Wide Area Network (WAN), Uninterrupted Power Supply (UPS), generators, sensors, Heating Ventilation and Air Conditioning (HVAC) and Electrical systems.

The COMMISSION requires an ESS CONTRACTOR that will provide:

- 1) Maintenance of the ESS System for three (3) years,
- 2) Optional Maintenance of the ESS System for year 4,
- 3) Optional Maintenance of the ESS System for year 5,
- 4) Design and Build services for system enhancements to the ESS system, and
- 5) Perform any currently unforeseen work relating to the ESS system.

Details of the existing hardware to be maintained are captured in Tab 10 Exhibit A.

In addition to existing hardware, the COMMISSION has on-going projects that will be completed for the start of the ESS CONTRACTOR maintenance period. The devices for on-going and future



Figure 1. Commission Toll and Toll-Supported Bridges

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projects are listed in Tab 10 Exhibit B. Section 6.28 of these Technical Requirements provide additional information regarding on-going projects.

Total number of ESS devices by type is noted in Table 1.

Table 1. Total number of ESS devices by type, existing and on-going projects

ESS Device	Quantity (Existing)	Quantity (Added based on On-going Projects)	Quantity (Total on Sept. 30, 2018)
Camera	356	12	368
System Servers	27	0	27
ACS Server and Central Application Platform	9	0	9
ACS Door Lock	121	7	128
ACS Remote Release	3	0	3
ACS Door Sensor	123	7	130
ACS Reader	130	7	137
ACS Request to Exit	123	7	130
Workstation	41	3	44
Network Switches	20	0	20
Wireless Communications Repeater	26	0	26
Wireless Collection Point	18	0	18
Solar Power System	28	0	28
Generators	11	0	11
UPS (Standalone)	20	0	20
UPS (Rack Mount)	44	0	44
Video Encoders	18	0	18

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In addition to the existing hardware and hardware related to on-going projects that will be included in the ESS CONTRACTOR maintenance scope, the COMMISSION has planned the following future projects with noted estimated completion dates. These future projects are being completed by others, but once accepted by the COMMISSION, the associated systems/hardware will be included in the ESS CONTRACTOR maintenance scope. The PROPOSER shall include pricing associated with maintaining the systems/hardware linked to future projects based on the estimated completion dates. Section 6.28 of these Technical Requirements provide additional information regarding future projects.

Table 2. Total number of ESS devices by type for planned future projects with estimated completion dates

Project	Device Quantities				Estimated Completion Date
	ACS Server and Central Application Platform	ACS Equipment	Cameras	Workstations and Servers	
Administration Building at Scudder Falls	0	215	24	TBD	July 31, 2019
Adaptive Reuse of 1799 House	0	10	3		July 31, 2019
BM/AET Building	1	125	13	5	June 1, 2019
New Scudder Falls Toll Bridge (SB Structure)	0	0	42		June 1, 2019
New Scudder Falls Toll Bridge (NB Structure)	0	0	20		June 15, 2021

As-built drawings illustrating the location of existing ESS devices and design drawings of on-going and future projects will be available for PROPOSER to review in a COMMISSION viewing room.

A COMMISSION managed wide area network (WAN) supports Commission operations including the ESS local area network (LAN) at each TB/TSB site. A high-level diagram of the WAN/LAN is provided in Tab 10 Exhibit C.

As illustrated in the diagram, each LAN connects to the WAN. The ESS CONTRACTOR is responsible for maintenance of each LAN and its connection to the WAN.

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For WAN support, the ESS CONTRACTOR shall assist the COMMISSION with visual triage of WAN devices and confirmation of LAN connectivity. Any additional WAN support will be coordinated by the COMMISSION and will not require ESS CONTRACTOR staff.

The existing LAN/WAN infrastructure uses Cisco products and the COMMISSION intends to keep this vendor for LAN/WAN equipment.

Vendor information for other systems:

1. Video Management System (VMS) is a Genetec system [Version 5.6 SR4].
2. The Access Control System (ACS) is a Synergis system under the Genetec platform (version is not applicable).

1.2 GENERAL REQUIREMENTS

The COMMISSION is seeking to retain an ESS CONTRACTOR to provide the COMMISSION:

1. Preventive and Corrective Maintenance for all components that comprise the ESS System.
2. System Enhancements across different components of the ESS as described in Section 2.2.
3. Unforeseen work relating to the ESS system.

Maintenance of the ESS system includes all components of the ESS system. The ESS CONTRACTOR shall provide scheduled Preventive Maintenance as well as necessary Corrective Maintenance on any component of the ESS System. Corrective Maintenance shall be performed in a timely manner as called for in the Maintenance Response and Repair section of this document (Section 6.17).

The maintenance for any ESS component shall be performed by technicians who are qualified and certified for the specific type and brand of the Unit Under Maintenance (UUM).

The COMMISSION has made every reasonable effort to identify all ESS equipment, ESS Systems, and related components, as described in this Request for Proposals. However, it is the responsibility of the ESS CONTRACTOR to identify, inventory and maintain the entire ESS system, which includes all previously commissioned engineering project installations, updates, enhancements, and subsequent engineering / maintenance changes.

The COMMISSION shall have the right under its own discretion to perform with its own labor force the Operational Maintenance tasks such as cleaning, inspection, etc., but shall inform the ESS CONTRACTOR of all such activities in advance.

The ESS CONTRACTOR shall also Design, Supply and Build System Enhancements for the ESS System. This includes:

- 1 Replacement of all ESS network switches and supply and installation of Network Management System (NMS) software.
- 2 Replacement of all ESS UPS units.

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- 3 Supply and installation of ACS, intrusion prevention (window safety film) and detection (motion detection) for bridge shelters.
- 4 Replacement of wireless communications and solar power that supports cameras on I-78 with fiber-optic communications and wired power connections.
- 5 Supply and implementation of a video analytics solution.

For highly specialized technologies such as video analytics and window hardening, the ESS CONTRACTOR shall retain the system's manufacturer or approved agents to design, supervise the installation, test and certify the work. Similarly, the ESS CONTRACTOR shall retain specialists for corrective maintenance services related to specialized systems (e.g. generators, HVAC, video analytics, etc.).

Unit pricing for different components of the ESS system shall be provided by the ESS CONTRACTOR for use by the COMMISSION as a basis for any unforeseen work not covered under the Maintenance. This includes, but not limited to, additional cameras the COMMISSION may want to install in order to expand coverage for a location or facility, installation of video walls at the PCC, intelligent transportation systems (ITS) related equipment, etc. A budget shall be established for unforeseen work. This budget is to be used only at the sole discretion of the COMMISSION. See Section 6.27 for more details.

1.3 LEGAL REQUIREMENTS

The ESS CONTRACTOR is required to obtain and be compliant with the laws and regulations governing an Electronic Surveillance / Detection System (ESS) and similar systems for the jurisdiction states (New Jersey and Pennsylvania) as determined by the COMMISSION. Should there be differences between the laws and regulations of the states, the resolution of the difference will default to the higher standard, rule, or regulation.

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2 ELECTRONIC SURVEILLANCE SYSTEM

2.1 GENERAL REQUIREMENTS

All hardware and equipment supplied under this Contract, excluding consumable material (material that needs continuous replenishment), shall be certified to have a ten-year minimum service life. All equipment, supplies, and materials furnished under this Contract for the COMMISSION'S ESS System shall be new, off-the-shelf, field proven and meet applicable ISO, IEEE, UL, and ANSI standards. Materials and products that have been previously used for development work, purchased systems, or items that have been salvaged or rebuilt shall not be permitted to be used in connection with this Contract or Project. Where available, all equipment provided by the ESS CONTRACTOR shall be multi-sourced and readily available to the COMMISSION. The ESS CONTRACTOR shall provide a list of those items that are not or cannot be multi-sourced with the reason why.

2.1.1 MAINTAINABILITY

The ESS System hardware shall adhere to the following requirements:

1. The ESS system hardware shall be Commercial-off-the-Shelf (COTS).
2. All equipment that attaches to or uses electrical current shall be UL rated, approved or tested.
3. All field wiring shall be terminated on terminal strips, screw lugs or connectors and all connectors shall be keyed or polarized to prevent incorrect connections.
4. All wiring and connectors shall be labeled and strain relief shall be provided to protect the conductors.
5. Surge suppression shall be provided for all field wiring susceptible to power surges or electrical spikes.
6. Power supply shall be provided for all required internal DC voltages and meet equipment manufacturer standards for power connections, fusing and grounding.
7. All equipment shall be properly grounded to ensure the safety of maintenance personnel.

2.1.2 DIAGNOSTICS

All test points necessary to diagnose the equipment while in operation shall be easily accessible and LED indicators shall be provided to assist technicians to identify and diagnose problems. Technicians shall have the ability to connect a laptop or terminal and keyboard to troubleshoot the computers or other such components.

The ESS CONTRACTOR shall supply a minimum of five (5) Maintenance Laptops under this Contract that remain on Commission premises. Upon Commission approval of these Maintenance Laptops, the ESS CONTRACTOR may use them to connect to the ESS locally and perform system/device diagnostics. Remote access from off-site premises is not permitted.

All diagnostic software and tools required to support maintenance activities shall be supplied by the ESS CONTRACTOR and the COMMISSION shall have full rights for the use of such diagnostic software and tools.

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Maintenance Laptops must be kept up-to-date with relevant software patches (e.g. Windows updates). Software updates/patches or addition of new software must be completed using a virus free removable media device (e.g. USB), not via an Internet connection. Upon completion of system updates, prior to use on the ESS network, the ESS CONTRACTOR shall provide the COMMISSION a system report demonstrating the Maintenance Laptop is virus free.

2.1.3 CUSTOMIZED HARDWARE

If customized components or controllers are used, the ESS CONTRACTOR shall provide detailed documentation on the design, production and testing of these units as further detailed in Section 3.8. Documentation shall include the detailed Bill of Material (BOM) listing the two sources of manufacturers/ESS CONTRACTORS. All customized hardware shall have drawings, sketches, or other renderings included as a part of the as built drawing package.

2.1.4 ASSEMBLY

All customized hardware shall be assembled and tested in the ESS CONTRACTOR'S fabrication shop in accordance with the ESS CONTRACTOR prepared and COMMISSION accepted test plan before being installed. All chassis, attachments, and hardware shall be fabricated from corrosion and rust resistant materials, or properly plated to achieve corrosion and rust resistance.

All customized hardware shall be identified and shall undergo a seventy-two (72) hour burn in test and acceptance by the COMMISSION before they are installed. Customized hardware assembly shall facilitate easy replacement (use of standard maintenance tools) of failed components in accordance with the maintainability requirements (Section 2.1.1).

2.1.5 ENVIRONMENTAL

All equipment and hardware provided under this Contract shall at a minimum meet the environmental requirements noted in this section.

The ESS system equipment to be supplied shall be designed to meet performance requirements necessary to operate correctly in areas exposed to the range of climatic conditions expected in the Northeastern United States. In addition to the climatic conditions, the equipment will also be subjected to harsh environmental factors, such as, but not limited to, car, truck and bus emissions, a wide range of illumination; industrial exhausts; industrial cleaners; salt; gasoline and car lubricants; Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI); and vibrations. These conditions shall be taken into account in the Design and selection of equipment proposed for use on this Project and the ESS CONTRACTOR is responsible for ensuring that the system works accurately and reliably in such an environment including providing the necessary equipment and climate controls to ensure proper functioning.

Equipment and cabinets for the ESS system shall be installed above the 1955 flood elevations, as indicated on As-built drawings. At locations where this is not physically possible, design alternatives will be considered on a case-by-case basis. This is a critical design parameter, special attention to protect the ESS system components during flood conditions (which includes, without limitation, floating debris) is essential.

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The ESS system components must be able to operate in a sealed and enclosed environment as described in this Section and be able to support all ESS hardware/software requirements specified in these Technical Requirements. Server hardware shall operate with no degradation of performance in ambient air temperature of 50°F to 95°F (10°C to 35°C) with and without direct sunlight and with a relative humidity of 20% to 80% percent.

All server and workstation equipment, when packaged in its fully assembled configuration, shall not be damaged, nor shall operational performance or lifetime be degraded, after being subjected to vibration of 1 g at 15 Hz, or shocks of 5 g for 10 ±1 millisecond, in each of three (3) mutually perpendicular axes.

2.1.6 BILL OF MATERIALS (BOM)

The ESS CONTRACTOR shall include the BOM with all equipment and hardware supplied under this Contract to meet the requirements specified in these Technical Requirements. Each component shall also include the second source for manufacture except where Approved proprietary hardware is used. During the Design phase the BOM shall be finalized and all changes thereafter shall be subject to acceptance by the COMMISSION. Prior to purchase of any equipment the ESS CONTRACTOR shall submit the final BOM to the COMMISSION for acceptance. Updates to the BOM shall be provided by the ESS CONTRACTOR when changes occur and at a minimum on a semi-annual basis, unless there are no changes to the BOM.

2.1.7 HARDWARE WARRANTY

All new hardware and electronic equipment installed shall have a warranty by the ESS CONTRACTOR after System Acceptance with the option to extend the warranty for the life of the Contract. All products shall be warranted against design and installation flaws for the life of the product. Replacement of products within the one (1) year warranty period due to failure, or to design and installation flaws shall be at no cost to the COMMISSION.

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2.2 SYSTEM ENHANCEMENTS

For ESS System Enhancements, the associated operating system(s), database(s), and related ESS System software provided by the ESS CONTRACTOR shall support real time operations and shall be field proven.

The proposed operating systems should have sufficient capacity and modularity to provide a future growth path and must be supported for up to ten (10) years.

The ESS CONTRACTOR shall ensure that the risk of obsolescence to the hardware is minimized through the selection of the operating system software and the peripheral hardware and shall replace obsolete hardware and software at no cost to the COMMISSION to maintain licensing and support agreements with ESS CONTRACTORS.

Obsolete hardware and software shall be defined as outdated hardware or software no longer supported by the manufacturer or has exceeded the warranty period of this Contract.

All ESS System hardware and software provided under this Contract shall be warranted against design flaws, and software defects and deficiencies for the life of the Contract, including up to the limits of the optional maintenance period.

While implementing the System Enhancements, the ESS CONTRACTOR is still responsible to maintain an operational system. Any downtime in excess of the COMMISSION pre-approved downtime for each Testing Requirements stage set forth in Section 5, shall be considered a Failure as specified under Section 6.17 and subject to the Repair Time Requirements and Liquidated Damages Schedule in the same section.

The ESS System Enhancements consist of five (5) phases described in the subsections that follow.

For each ESS System Enhancement phase, the ESS CONTRACTOR shall follow the Project Management approach noted under Section 3, installation program noted in Section 4 and testing program noted in Section 5. Specific project management, design, documentation, installation and testing notes in the subsections below shall be considered in combination with the requirements in Sections 3, 4 and 5.

2.2.1 PHASE 1: Supply and Installation of ESS Network Switches & Network Management System (NMS) Software

The following section outlines the scope of work required to be performed for the supply and installation of ESS network switches and NMS software.

The target substantial completion for this phase is February 1, 2019.

2.2.1.1 Network Switches

The new network switches shall adhere to the standards, formats or configurations and conventions which the ESS department employs.

The ESS CONTRACTOR shall provide new network switches at the following locations with the noted minimum number of Ethernet and SFP ports.

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	Location	Minimum # of Ports	Minimum # of SFP Ports	Switch Type
1	Delaware Water Gap TB	48	2	Commercial
2	I-78 TB	48	2	Commercial
3	Easton-Phillipsburg TB	48	2	Commercial
5	Trenton-Morrisville TB	48	2	Commercial
5	Portland-Columbia TB	48	2	Commercial
6	New Hope-Lambertville TB	48	2	Commercial
7	Milford-Montague TB	48	2	Commercial
8	Washington Crossing TSB	24	2	Industrial
9	Center Bridge-Stockton TSB	24	2	Industrial
10	Uhlerstown-Frenchtown TSB	24	2	Industrial
11	Upper Black Eddy-Milford TSB	24	2	Industrial
12	Scudder Falls TSB	48	2	Commercial
13	New Hope-Lambertville TSB	24	2	Industrial
14	Riegelsville TSB	24	2	Industrial
15	I-78 / Rt.611 TB	24	2	Industrial
16	Northampton Street TSB	24	2	Industrial
17	Calhoun Street TSB	24	2	Industrial
18	Lower Trenton TSB	24	2	Industrial
19	Riverton-Belvidere TSB	24	2	Industrial
20	Primary Control Center	48	2	Commercial
Total Commercial:				9
Total Industrial:				11

At a minimum, the ESS network switches shall meet the following:

1. The Work shall include all necessary cabling, and related equipment, ancillary items, software and peripherals to enable to the new switches to work with the ESS system.

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2. Provide all application and operating system licenses required to ensure that each switch is fully functional.
3. Each switch shall be a Cisco product.
4. At a minimum, the network switches shall meet or exceed the following performance specifications:
 - Multi-gigabit Ethernet
 - Enhanced security
 - Multiprotocol label switching (MPLS)
 - Flexible Netflow
 - Universal Power over Ethernet (UPOE) & (PoE+)
 - 2x stacking bandwidth (160 Gbps)
5. A commercial switch shall be operational based on the environmental conditions noted for Server hardware under Section 2.1.5.
6. An industrial switch shall be:
 - a. Rack mountable, ruggedized units that can operate in field conditions (e.g. within an outdoor cabinet).
 - b. Hardened for vibration (typical to roadside cabinets), shock, surge, electrical noise immunity and have no degradation of performance in temperatures ranging from -40F to 165F.

The ESS CONTRACTOR shall provide decommissioning and removal of the existing switches.

The ESS CONTRACTOR shall coordinate device removal activity with the COMMISSION for location to store equipment.

The ESS CONTRACTOR shall provide a migration plan to the COMMISSION for approval that shall include at a minimum:

1. An approach to migrate the existing device connections to the new switches;
2. An approach for the integration of switches into the NMS platform;
3. Test plans to validate all functionality of the network switches;
4. Details and actions taken to minimize the impact to the business operations of the facility; and
5. How units will be maintained following acceptance.

In addition to the Installation Requirements noted in Section 4 of these Technical Requirements, the following installation and configuration requirements are noted for network switches.

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1. Prior to installation of Ethernet switches the ESS CONTRACTOR shall perform bench testing of the devices using the expected network configuration based on the current device.
2. The Ethernet switches shall be installed in locations and/or cabinets as specified by the COMMISSION.
3. The ESS CONTRACTOR shall install the Ethernet switches as per the manufacturer recommended installation procedure.
4. The ESS CONTRACTOR shall connect the Ethernet switches power supply cord to a conditioned power supply.
5. If an external power supply component is required for the operation of the switches, means shall be provided to securely fasten the connector to prevent it from becoming accidentally dislodged.
6. The ESS CONTRACTOR shall configure an IP address for the Ethernet switches based on the information provided by the COMMISSION.
7. The ESS CONTRACTOR shall configure all user names and passwords for the Ethernet switches based on the information provided by the COMMISSION.
8. The ESS CONTRACTOR shall install all interface cable connections between the Ethernet switches and associated equipment. All cables shall be labelled identifying the associated equipment connection.
9. The ESS CONTRACTOR shall neatly train and organize all cables. No cables shall be installed with a radius less than the manufacturer's minimum recommended bending radius.

2.2.1.2 Network Management System (NMS) Software

The ESS CONTRACTOR shall supply and install NMS software at each TB and TSB site.

The COMMISSION shall provide space on an existing ESS Server for the ESS CONTRACTOR to load NMS software.

The PROPOSER shall indicate in its response the hardware requirements to support the proposed NMS software.

The NMS shall meet the following functional requirements:

1. Provide continuous monitoring capability for the ESS LAN, servers and workstations.
2. Facilitate the retrieval, storage, analysis and display of status information from all network devices attached to the ESS system that are SNMP and/or ICMP capable, and shall facilitate remote configuration of these devices.
3. Provide the ability to view real-time information on the network and its associated IP SNMP/ICMP enabled devices including switches and other IP devices connected over the network. It shall support a minimum of 5000 end points.
4. Provide configurable notifications related to system faults or if specified thresholds are reached.

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5. Include all hardware and software required to configure, control and monitor the network connected SNMP/ICMP based devices.

The NMS shall also meet the following technical requirements:

1. Include all required licenses and shall be scalable for management of COMMISSION configurations.
2. Provide real-time monitoring of the entire ESS network infrastructure and shall allow users to easily navigate with graphical interface and easy to use network management tools.
3. Provide at a minimum, event alerts via pop-up alarms or export to CSV.
4. Automatically generate reports on a daily, weekly and monthly basis in formats including graphs, bar charts, distribution and summary.
5. The system shall be capable of printing out reports and also exporting the reports to other systems or web servers.
6. Display a simple map of the whole network as a tree and shall have the option of direct selection of objects. The system shall provide a navigation tree to display the current alarm status of each subnet. All the system shall support PAN/ ZOOM feature and shall have all the devices visible in one window along with the provision for these two features.
7. Provide polling agents to upload status, changes or alerts of the local devices attached with the Ethernet enabling devices.
8. Provide real time Management Information Bases (MIBs) displays and shall provide the MIB variable data in tabular or graphical format. The MIB displays shall provide various expressions like utilization, percentage errors and volume.
9. Provide features for security and accountability and shall generate a log file for any user access to configuration or platform changes.
10. Allow for providing different levels of security access i.e. viewing, logging and managing.
11. Allow for display of different colors for the links including red, green, orange, yellow to show the status of the links and the connected devices.
12. Be capable of managing any SNMP/ICMP device from any vendor.
13. Support SNMPV1, SNMPV2C and SNMPV3 and shall automatically discover and poll SNMP and ICMP devices.
14. SNMP traps for all IP enabled devices shall be provided by the respective product manufacturers.
15. Allow notifications to be automatically sent to phones, offsite workstations, etc. for efficient response.
16. The operation of the NMS shall be tested while the backbone network is under 30% network utilization.
17. Have secure wired guest access that provision controlled wireless access to tenants, while keeping the network secure.
18. Have role-based access control to provide flexibility to segment a wireless network into one or more virtual domains controlled by a single management platform.
19. Have role-based access control to provide flexibility to segment a wireless network into one or more virtual domains controlled by a single management platform.
20. Provide an interface for IT helpdesk personnel to create guest credentials.

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2.2.2 PHASE 2: Supply and Installation of ESS UPS

The following section outlines the scope of work required to be performed for the supply and installation of rack mount and standalone Uninterruptible Power Supply (UPS) units.

The target substantial completion for this phase is February 1, 2019.

The new UPS units shall adhere to the standards, formats or configurations and conventions which the ESS department employs.

The ESS system has one (1) rack mount UPS unit that shall be replaced at each of the following locations.

Location		Rack Mounted UPS Quantity
1	Delaware Water Gap TB	1
2	I-78 TB	1
3	Easton-Phillipsburg TB	1
4	Trenton-Morrisville TB	1
5	Portland-Columbia TB	1
6	New Hope-Lambertville TB	1
7	Milford-Montague TB	1
8	Washington Crossing TSB	1
9	Center Bridge-Stockton TSB	1
10	Uhlerstown-Frenchtown TSB	1
11	Upper Black Eddy-Milford TSB	1
12	Scudder Falls TSB	1
13	New Hope-Lambertville TSB	1
14	Riegelsville TSB	1
15	I-78 / Rt.611 TB	1
16	Northampton Street TSB	1
17	Calhoun Street TSB	1

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18	Lower Trenton TSB	1
19	Riverton-Belvidere TSB	1
20	Primary Control Center	1
	Total:	20

At a minimum, the rack-mounted UPS units shall meet or exceed the following performance specifications:

- 30 minutes of runtime during power failure at 5 kVA.
- Fit within existing indoor equipment racks. Available rack space for UPS units is 12U.
- Utilize existing site voltage 120V, 208V or 480V.
- Twist lock connector

The ESS system also consists of the following standalone UPS units that shall be replaced at each of the following workstation locations.

Location		Standalone UPS Quantity
1	Delaware Water Gap TB	4
2	I-78 TB	6
3	Easton-Phillipsburg TB	3
4	Trenton-Morrisville TB	5
5	Portland-Columbia TB	2
6	New Hope-Lambertville TB	6
7	Milford-Montague TB	1
8	Washington Crossing TSB	1
9	Center Bridge-Stockton TSB	1
10	Uhlerstown-Frenchtown TSB	1
11	Upper Black Eddy-Milford TSB	1
12	Scudder Falls TSB	0
13	New Hope-Lambertville TSB	2
14	Riegelsville TSB	2
15	I-78 / Rt.611 TB	0

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16	Northampton Street TSB	2
17	Calhoun Street TSB	2
18	Lower Trenton TSB	1
19	Riverton-Belvidere TSB	1
20	Primary Control Center	3
Total:		44

At a minimum, the standalone UPS units shall meet or exceed the following performance specifications:

- 30 minutes of runtime at 100 W.
- 6 battery backup plugs.
- 3 surge-only plugs.
- 2 USB ports.

The rack mount and standalone UPS units shall include remote health monitoring functionality, e.g., alerts for temperature, battery condition, AC power condition.

The ESS CONTRACTOR shall provide decommissioning and removal of the existing UPS units.

The ESS CONTRACTOR shall coordinate device removal activity with the COMMISSION for location to store equipment.

The ESS CONTRACTOR shall provide a migration plan to the COMMISSION for approval that shall include at a minimum:

1. An approach to migrate the existing device connections to the new UPS units;
2. Test plans to validate all functionality of the UPS units;
3. Details and actions taken to minimize the impact to the business operations of the facility; and
4. How units will be maintained following acceptance.

In addition to the Installation Requirements noted in Section 4 of these Technical Requirements, the following installation and configuration requirements are noted for the UPS units.

1. UPS units shall be installed as per the manufacturer recommended installation procedure.
2. The input side of the UPS shall be connected to the rack power distribution assembly power via one of the existing receptacles.
3. Communications equipment components shall be connected to the UPS output receptacles.

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4. An IP address for the UPS unit shall be configured based on the information provided by the COMMISSION.
5. The UPS unit shall be activated according to the manufacturer's recommendations. The RJ-45 port and remote management and monitoring shall also be activated. The remote monitoring software and documentation shall be delivered to the COMMISSION upon activation of the UPS unit.
6. All cables shall be neatly trained and organized.

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2.2.3 PHASE 3: Supply and Installation of ACS at Bridge Shelters

The following section outlines the scope of work required to be performed for the supply and install of ACS, intrusion prevention and motion sensors at 14 bridge shelters (referred hereafter as "Shelters).

The target substantial completion for this phase is April 1, 2019.

The ESS CONTRACTOR shall:

1. Install new entry doors and ACS consistent with COMMISSION security requirements and that are compatible to other ESS devices already existing at the Bridge site.
2. Provide outdoor devices that are "Vandal Proof" and are "Security" type.
3. Harden the windows glass by adding a 12 mil security film. Window measurements are presented in Tab 10 Exhibit D.

The ESS CONTRACTOR shall equip the following Shelters:

1. Lower Trenton Toll-Supported Bridge (PA Approach)
2. Calhoun Street Toll-Supported Bridge (PA Approach)
3. Calhoun Street Toll-Supported Bridge (NJ Approach)
4. Washington Crossing Toll-Supported Bridge (NJ Approach)
5. New Hope-Lambertville Toll-Supported Bridge (NJ Approach)*
6. New Hope-Lambertville Toll-Supported Bridge (PA Approach)*
7. Center Bridge-Stockton Toll-Supported Bridge (NJ Approach)
8. Uhlerstown-Frenchtown Toll-Supported Bridge (NJ Approach)
9. Upper Black Eddy-Milford Toll-Supported Bridge (NJ Approach)
10. Riegelsville Toll-Supported Bridge (NJ Approach)
11. Riegelsville Toll-Supported Bridge (PA Approach)
12. Northampton Street Toll-Supported Bridge (NJ Approach)
13. Northampton Street Toll-Supported Bridge (PA Approach)
14. Riverton-Belvidere Toll-Supported Bridge (NJ Approach)

*The New Hope-Lambertville Toll-Supported Bridge shelters (both NJ and PA approaches) have already been equipped with a reader, door strike plate and magnetic contact; however, they are not yet equipped with motion detection and window hardening.

The new ACS devices shall adhere to the standards, formats or configurations and conventions which the ESS department employs.

For this phase of work, the ESS CONTRACTOR shall ensure the following details are captured in the documentation required as noted in Section 3:

1. A detailed design that includes specific drawing for each Shelter and a detailed Bill of material including name, manufacturer, manufacturer part number, and quantities.
2. A supply schedule and installation plan including:
 - a. Detailed steps and dates to supply, remove existing and install the new mechanical and electronic components of ACS and the motion detectors at each of the Shelters.

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- b. Detailed steps to configure the new ACS and integrate it with the existing system already in existence at the Bridge Location.
- c. A list of the subcontractors used to perform specific tasks (if used).
- d. A QA and test plan to validate all ACS functionality and integration.
- e. Specific safety requirements for this part in addition to the ESS CONTRACTOR's general project safety plan.
- f. Steps to minimize impact to business operations.
- g. How units will be maintained following acceptance.

In addition to the Installation Requirements noted in Section 4 of these Technical Requirements, the following installation and configuration requirements are noted for Shelter ACS, intrusion prevention and window hardening.

- 1. Remove existing entry door and door frame.
- 2. Install a new entry fiberglass door and door frames
 - a. Doors shall be suitable for accepting ACS equipment as required by the design.
 - b. The doors and installation shall comply with the latest revision of ADA title III.
- 3. Install ACS at Shelters to include:
 - a. A RFID card reader to be installed at the outside side of the Shelter near the entry door;
 - b. An electric strike locking device.
 - c. An open door indication switch.
 - d. A Mercury Security EP1501 Intelligent Controller to integrate the above.
 - e. Installation of a PIR motion sensor inside the Shelter to detect movement within it and integrating the motion sensor with the above ACS processor.
- 4. Install a 12 mil "day-light" security film on all existing Shelter windows. (See TAB 10 Exhibit D for window measurements)
 - a. Install the film under the frame using "wet-glaze" attachment.
 - b. Use Dow Corning 995 structural attachment adhesive.
- 5. Configure and set up the new ACS configuration.
- 6. The ACS shall be capable of supporting a second biometric sensor to be located at a weather sheltered area or inside the Shelter.
- 7. There shall be smoke and fire monitoring at the Shelter.
- 8. Provide all required licenses to ensure servers are fully functional.
- 9. Work shall include all necessary cabling and power supplies to make system operational.

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The new ACS components shall adhere to any standards, formats, configurations and conventions which the ESS system employs and specifically security protocols. Submit to the COMMISSION for review and approval all configurations.

2.2.4 PHASE 4: Communications and Power Connections Update for I-78 Devices

The following section outlines the scope of work required to be performed for the supply and installation of fiber optic communications and power supply connections at the I-78 site, to replace the existing Fluidmesh wireless communications and SunWize solar power.

The target substantial completion for this phase is September 30, 2019.

The ESS CONTRACTOR shall design the I-78 power and communications links in compliance with the relevant Pennsylvania Department of Transportation (PennDOT) and/or New Jersey Department of Transportation (NJDOT) specifications such as PennDOT publication 408, Section 1204 – ITS Communications and NJDOT ITS material specifications.

For this System Enhancement, the ESS CONTRACTOR shall:

1. Install new power supply cabling and fiber optic communications cabling to support I-78 ESS field devices. The ESS CONTRACTOR can assume the required power and network devices are available at the Administration building to connect the new I-78 cabling.
2. Provide the necessary power and communications devices along I-78 route to ensure end to end connectivity between devices and the ESS network.
3. Ensure the fiber optic cable is compatible with the Administration building network switch SFP connection.
4. Design, install, test, and maintain power and fibre optic communications cabling to support I-78 field devices.
5. Confirm ESS field device functionality upon completion of power supply cabling and fiber optic communications cabling installation.
6. Complete integration and testing prior to decommissioning and removing existing wireless communications and solar power systems.
7. Provide decommissioning and removal of the legacy infrastructure.
8. Supply the appropriate fiber optic cable, patch panels, connectors to match existing ESS infrastructure.
9. Supply appropriate power supply cabling to meet the functional requirements of the ESS field device system. (e.g. appropriate cable sizes factoring in voltage losses shall be designed and installed)
10. Refer to as-built drawings (to be made available to the PROPOSER in a viewing room) to gain an understanding of existing infrastructure and site conditions.
11. Notify the COMMISSION in their proposal of any concerns relating to existing infrastructure (e.g. duct, maintenance hole, cabinet) that the ESS CONTRACTOR will need to use.
12. Proof all electrical and communications ducts prior to commencing work. The ESS CONTRACTOR shall notify the COMMISSION of any issues.

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Included in Tab 10 Exhibit E is a line diagram illustrating the existing power supply and communications to be replaced, as well as the devices it is required to support. The Exhibit E diagram is for information purposes only and is not a design document.

As-built drawings will be available to PROPOSERS in a viewing room. PROPOSERS may conduct site visits to further their understanding of the existing infrastructure and site conditions.

For routing the conduit from the Administration building to device sites, the COMMISSION prefers the ESS CONTRACTOR trenches in the grass covered area alongside the existing paved shoulder. The COMMISSION understands there may be obstructions faced (e.g. rock) and, where deemed necessary, will permit trenching in the paved shoulder area with the ESS CONTRACTOR being responsible to restore the pavement box in-kind.

The ESS CONTRACTOR shall ensure protection of existing utilities, drains, etc. while performing conduit installation activities.

The ESS CONTRACTOR design shall include one (1) spare conduit and 1 spare fiber optic cable. Spare fiber optic cabling shall be based on the ESS CONTRACTOR assessment of I-78 sites to be connected with consideration for the addition of at least 2 times the current ESS devices along the I-78 corridor.

The ESS CONTRACTOR shall provide a migration plan to the COMMISSION for approval that shall include at a minimum:

1. A plan, including detailed design drawings, to migrate the existing devices to the new communications and power supply system;
2. Test plans to validate all functionality (including performance, throughput and redundancy) of the new communications and power supply system, as well as end-to-end device connections;
3. Each plan shall include details and actions taken to minimize the impact to the business operations of the facility; and
4. A maintenance plan.

The following subsections include requirements for fiber optic and power cabling supply, design, installation and testing.

2.2.4.1 Fiber Optic Cable

The ESS CONTRACTOR shall provide fiber optic cable in accordance with the following:

1. Fiber Optic Distribution Cable.
 - Single-mode fiber.
 - Mini Loose tubes.
 - Dielectric central member.
 - Outer Jacket, HDPE.

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- Meets Bellcore TR-TSY-000020, REA PE-90 and ANSI/ICEA S-87-640 in accordance with requirements of ANSI/TIA/EIA-568A Commercial Building Telecommunications Cabling Standard.
 - Reverse oscillation buffer tube stranding.
 - Footage markings printed every 2 feet along outer jacket.
 - Attenuation at 1310/1550 nm: 0.35/0.25 dB/km (maximum attenuation for every fiber in cable across entire operating temperature range).
 - Operating temperature range: -40 °C to +70 °C.
 - Maximum Nominal Outside Diameter - 6.2 mm.
2. Fiber Optic Termination Cable.
- Single-mode fiber.
 - Loose tube cable.
 - Dielectric central member.
 - Medium density polyethylene cable jacket.
 - Meets Bellcore TR-TSY-000020, REA PE-90 and ANSI/ICEA S-87-640 in accordance with requirements of ANSI/TIA/EIA-568A Commercial Building Telecommunications Cabling Standard.
 - Reverse oscillation buffer tube stranding.
 - Footage markings printed every 2 feet along outer jacket.
 - Attenuation at 1310/1550 nm: 0.35/0.25 dB/km (maximum attenuation for every fiber in cable across entire operating temperature range).
 - Operating temperature range: -40 °C to +70 °C.
 - Maximum Nominal Outside Diameter - 10.5 mm.
3. The trunk and branch cables shall consist of all required optical SM or MM fibers divided into buffer tubes and housed within a protective cable structure suitable for installation in outdoor underground ducts or aerial on steel messenger cable. All fiber optic trunk and branch cable shall include a twisted pair cable within the space allocated for one buffer tube for cable locating purposes.
4. The cables shall be rated for operation over a temperature range of -22F to +140F.
5. The cables shall provide mechanical support and protection for the specified number of fibers.
6. The outer jacket of the cables shall be constructed of medium or high density polyethylene and provide UV resistance to allow aerial installation.
7. All interstices within the cable's outer jacket shall be filled with a compound to prevent the ingress and migration of water. The compound shall be nontoxic and dermatologically safe. Some leakage of the compound is permitted; however, there shall be no bulk flow of compound out of the cable over the specified operating temperature range which could impact on the waterproofness of the cable.

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8. Materials used in the cables shall not produce hydrogen in a concentration large enough to cause any degradation in the transmission performance of the optical fibers.
9. Materials used in the cables shall not support galvanic action.
10. Fibers shall be bundled in buffer tubes. Each buffer tube shall contain 12 fibers.
11. Each individual fiber in the cables shall be identified by means of color coding or a combination of color and positional coding. The single mode fiber(s) shall be installed in the first buffer tubes. The ground trunk shall be located at one end of the cable.

2.2.4.2 Fiber Optic Cable Installation

The ESS CONTRACTOR shall:

1. Install fiber optic cable in new conduit.
Use appropriate installation techniques such that the optical and mechanical characteristics of the cable are not degraded.
2. Unless otherwise approved by the COMMISSION, use only the equipment and procedures specified by the manufacturer of the fiber optic cable. Install the cable in such a way that neither the minimum bending radius nor the maximum pulling tension are violated before, during, or after installation.
3. Before any fiber optic cable installation is performed, provide the COMMISSION with copies of the cable manufacturer's recommended and maximum pulling tensions for each cable size and type. These pulling tensions are to be specified for pulling from the cable's outer jacket. Also provide a list of the minimum allowable cable bending radius and the cable manufacturer's approved pulling lubricants and guidelines for their application. Only these lubricants are allowed.
4. The installation system to be used is to be inspected and approved by the COMMISSION.
5. Establish adequate voice communications between the cable feeding location and the cable pulling equipment before starting any pulling operations. Set up the cable reels on the same side of the junction box as the conduit section in which the cable is to be placed. Make the reel level and bring it into proper alignment with the conduit section such that the cable will pass from the top of the reel in a long smooth bend into the duct without twisting. Do not pull the cable from the bottom of the reel. Feed the cable by manually rotating the wheel.
6. Pull the cable in the conduit with a cable grip designed to provide a firm hold on the exterior covering of the cable. Use an approved cable feeder guide between the cable reel or storage stack and the face of the duct to protect the cable, and to guide the cable into the duct as it is payed off the reel or from the storage stack. The dimensions and

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set-up of the feeder guide are to be such that the cable does not bend at any location to a radius less than the cable's minimum allowable bending radius. Do not exceed this minimum-bending radius at any time during cable installation.

7. Keep cable ends sealed at all times during installation, using an approved cable end cap. Do not use tape to seal the cable end. Keep the cable end sealed until termination takes place. Provide a minimum of 50 feet of slack for cables that are not immediately terminated.
8. At any time the allowable pulling tension is to be 70% of the manufacturer's maximum pulling tension for pulling by the outer jacket. Ensure that the allowable pulling tension is not exceeded at any time during cable installation by using one of the following methods, as approved by the COMMISSION:
 - Pulling the cable by hand.
 - Approved mechanical means.
9. If the cable is pulled by mechanical means, use a clutch device to ensure the allowable pulling tension is not exceeded. Also, attach a strain gauge to the pulling line at the cable exit location, and at a sufficient distance from the take-up device, such that the strain gauge can be read throughout the entire cable pulling operation.
10. Use an approved lubricant if needed, in the amount recommended by the cable manufacturer, to facilitate pulling the cable. Lubricate the cable as it is payed off the cable reel or storage stack into the cable feeder. Place an approved cable lubricator (funnel) around the cable just ahead of the cable feeder to facilitate proper lubrication of the cable. After the cable has been installed, wipe the exposed cable in a junction box or cabinet clean of cable lubricant with a cloth before leaving the junction box or cabinet.
11. Take every precaution to ensure that the cable is not damaged during storage and installation. Do not allow workers to step on the cable or run it over with any vehicle or equipment. Do not pull the cable along the ground, over edges or corners, over or around obstructions, or through unnecessary curves or bends. Use approved cable guides, feeders, shoes, and bushings to prevent damage to the cable during installation. Replace and reinstall any cables that are damaged at no additional cost to the Department.
12. Cable runs are to be continuous between allowable termination points in equipment cabinets and multiplexer nodes. Carefully determine the length of cable necessary to reach from termination point to termination point. Do not splice fiber optic cable in conduit or junction boxes.
13. The ESS CONTRACTOR may, at his own option and with the COMMISSION's approval, furnish, install, and pull cable through an intermediate junction box. Intermediate junction boxes will be considered part of cable installation, and no separate payment will be made for this work.
14. Pull the necessary length of cable to be installed from one equipment cabinet or multiplexing node to the immediate next downstream equipment cabinet or multiplexing node. Carefully store the remaining length of cable to be installed in the next conduit in a

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manner that is not hazardous to pedestrian or vehicular traffic yet ensures that no damage to the cable occurs. Store the cable in a manner that allows that length of cable to be safely pulled into the next conduit and is approved by the COMMISSION.

15. In junction boxes store 50 feet of slack fiber optic cable for the distribution fiber and 20 ft. of slack fiber for the termination fiber spur that passes through the junction box. In addition, provide 50 feet of slack fiber for all fiber types at a junction box adjacent to an equipment field device cabinet. Neatly store slack cable on the side walls of the junction box using racking hardware approved by the COMMISSION.
16. No separate payment will be made for equipment used to install, terminate and test the fiber optic cable. Pricing for fiber optic cable shall include all cable ties, clamps, associated material, and labor required to install the cable.
17. Termination. Terminate fiber optic cable only in equipment cabinets, multiplexer nodes, splice cabinets, and at the TMC shown on the plans, unless otherwise directed by the COMMISSION. Splice through all fibers that are not used at a particular cabinet, and cap unused fibers that end in a cabinet. Provide and install patch cables at the TMC or Multiplexers where connection is to be made from an existing patch panel to a communications device.
18. At fiber optic termination points provide a fiber optic splice enclosure. Make all fiber terminations by splicing the fiber to factory connected pigtails using fusion splicing only. The pigtails are to be buffered, strengthened with aramid, and meet the requirements for fiber optic cable. All pigtail connectors are to be the ceramic ST type. Use the pigtails to connect the fiber optic cable to the equipment in the cabinet or at the multiplexers. Permanently label all fiber optic connectors, whether on pigtails or equipment, to preclude improper connection. The Representative will approve the labeling method(s) before use.
19. The cost of terminating, including the cost of splicing kits, pigtails, connectors, fiber optic cable caps, moisture sealants, and mounting hardware is considered incidental to furnishing and installing fiber optic cable, and will not be paid separately.
20. Each cabinet location with drop cables shall include a rack mountable patch panel complete with connector panels.
21. Each patch panel shall have capacity for 24 connections and shall include the fiber optic through adapters for 24 fibers or suitable capacity for all drop cables as specified in the Contract Documents if more than 24 fiber drop cables need to be interconnected at cabinet.
22. Each field interconnect panel shall be compatible for the fiber drop cables and fiber optic patch cord cables.
23. Each admin building interconnect panel shall be compatible the fiber drop cables and fiber optic patch cord cables.
24. Cable shall be pulled through ducts using compatible cable lubricant, mechanical aids, and pulling cables or ropes as required. The pulling tension and sidewall bearing

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pressure (SWBP) shall not exceed the safe tension recommended by the cable manufacturer.

25. Cable shall be transported to site using cable reel trailers.
26. Care shall be taken at all times to avoid scraping, denting, or otherwise damaging the cable before, during or after installation. Damaged cable shall be replaced by the ESS CONTRACTOR without additional compensation.
27. The ESS CONTRACTOR shall not exceed the manufacturer's recommended safe pulling tension and minimum bending radius at any time.
28. Sufficient slack shall be pulled to allow cable cutting and connection to communications equipment.
29. The ESS CONTRACTOR shall install optical attenuators as required, in order to ensure operation within the operating window of the proposed equipment, while maintaining a 3 dB margin at high and low ends. The COMMISSION shall record locations where attenuators are installed.
30. Twisted pairs shall be terminated at the termination block in each pedestal. The termination blocks shall be installed in pedestals external to the splice enclosures as specified in the Drawings approved by the COMMISSION. All connections shall be clearly identified.
31. All cable ends shall be protected from moisture ingress by using properly sealed caps.
32. ESS CONTRACTOR shall install and successful test all new systems and associated cabling prior to decommissioning and removing legacy equipment and cabling. Approval to decommissioning and remove equipment and cabling is required from the COMMISSION.
33. The splices shall be performed by high quality fusion type splicing equipment.
34. The maximum loss introduced by any single mode splice shall not exceed 0.25 dB at 1310 nm and 1550 nm.
35. The average single mode splice loss shall not exceed 0.1 dB for any given span, with a standard deviation not greater than 0.07 dB.
36. The maximum loss introduced by any multimode splice shall not exceed 0.3 dB/km at 850 nm and 1550 nm.
37. The average multimode splice loss shall not exceed 0.2 dB for any given span.
38. Only the fibers required to be spliced to drop cables specified in the Contract Documents shall be severed and spliced. Where required, the buffer tube splitting tool recommended by the manufacturer shall be used to open the correct buffer tube. Unsevered fibers in an open buffer tube shall be coiled in the splice tray. When buffer tubes do not need to be opened, at least 4.0 m of unopened buffer tubes shall be coiled in the fiber optic splice enclosure. The ESS CONTRACTOR shall prepare the designated fibers of the cable for splicing to the drop cables following manufacturer recommended procedures. All splices shall be arranged neatly in splice trays, supported

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and protected with a suitable splice protector. At least 1.0 m of each fiber shall be stored in the splice tray.

39. Each splice shall be tested for tensile strength by applying a force of not less than 200 grams.

2.2.4.3 Fiber Optic Cable Testing Requirements

The ESS CONTRACTOR is responsible for all testing and documentation required to establish the approval and acceptance of installation and operation of the fiber optic communication system by the COMMISSION. All test plans shall comply with manufacturer specifications and be approved by the COMMISSION prior to testing. At a minimum, there shall be a pre-installation test and post-installation (proof of performance) test.

Tests shall encompass 100% of the total cable system and shall be completed at random locations selected by the COMMISSION.

2.2.4.4 Power Supply Cable

1. All electrical conductors shall be copper, using an ampacity as described for a 167°F rating. Copper conductors shall be soft-drawn annealed copper, having a conductivity of not less than 98% of that of pure copper.
2. Conductor Insulation: All copper conductor insulation shall be Type "THHN" or "THHN/THWN."
3. All conductors installed in conduit that is in contact with earth shall be Type "THWN". The ESS CONTRACTOR shall provide a splice transition box at the conduit's point of "exit", where required to transition cable type.
4. All feeders and branch circuits shall be sized as indicated on the Drawing. Fixture tap conductors shall not be smaller than No. 14 AWG and shall be in lengths not greater than 6 ft. 0 in. or less than 4 ft. 0 in. All feeders and branch circuits shall be No. 12 AWG or larger.
5. Solid and Stranded Requirements: All wire No. 8 AWG and larger shall be stranded. All conductors in sizes No. 10, No. 12 and No. 14 AWG shall be solid, except Class 1, 2 or 3 wiring, which may be stranded if terminated and spliced.
6. All No. 6 AWG and larger copper conductors shall be connected with high conductivity, wrought copper, color-keyed concentric compression connectors.
7. A universal crimping tool and die is not acceptable. The approved connector manufacturer's recommended installation tool and procedures shall be used. Where the connector manufacturer does not manufacture their own tooling, documentation shall be

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submitted which will demonstrate dimensional compatibility with tooling manufacturer's lugs.

8. No modifications to any connector or fitting shall be permitted.
9. All bolt and screw connections shall be torqued in accordance with the manufacturer's recommendations. The ESS CONTRACTOR shall include a copy of the manufacturer's recommendations with all applicable submittals.

2.2.4.5 Power Supply Cable Installation

1. Conductor Pulling: Conductor pulling tensions shall not exceed manufacturer's recommended values. Where necessary, UL listed lubricants, compatible with the type of insulation involved, may be used to facilitate cable pulling.
2. Splicing and Tapping: Conductors shall not be spliced between the points of origin and termination. If splices are necessary, their use must be approved in writing by the Engineer before installation. Splices, if allowed, and taps shall be made in boxes or gutters.
3. Where cable sizes exceed that allowed by the equipment for termination, provide additional bus detail, as required, as part of the equipment for proper installation of oversized conductors.
4. Bending: The cable can be bent to a minimum radius of five times the cable diameter of the cable up to 250 kcmil and ten times the cable diameter for 350 kcmil or larger.

2.2.4.6 Power Supply Cable Testing Requirements

The ESS CONTRACTOR is responsible for all testing and documentation required to establish the approval and acceptance of installation and operation of the power supply by the COMMISSION. All test plans shall comply with manufacturer specifications and be approved by the COMMISSION prior to testing. At a minimum, there shall be a pre-installation test and post-installation (proof of performance) test.

Tests shall encompass 100% of the total cable system and shall be completed at random locations selected by the COMMISSION.

The following tests shall be performed prior to energizing the system:

- a) The continuity of selected cables shall be checked by means of an ohmmeter test. Accumulated resistance shall not exceed the nominal resistance of the cable length, as specified by the cable manufacturer, plus an allowable resistance of 20% per splice or connection.
- b) Resistance to ground tests.

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Leakage to ground of selected cables shall be checked by means of a megger test.
Resistance to ground shall be 10 megaohm or greater.

2.2.5 PHASE 5: Supply and Installation of Video Analytics

The following section outlines the scope of work required to be performed for the supply, installation and configuration of a Video Analytics (VA) solution utilizing and interfacing with the existing video equipment and video management platform.

The VA will analyze the images produced by existing CCTV cameras of various resolutions and type, analog or digital (IP cameras), color or grayscale (including thermal cameras), generate an alert when an event consistent with one or more preset rule occurs, and provide the corresponding video images and overlays to the existing Genetec VMS.

The VA system shall be installed at a total of 153 cameras distributed, at the discretion of the COMMISSION, across the following sites:

- I-78 TB
- Delaware Water Gap TB
- Easton-Phillipsburg TB
- Milford-Montague TB
- New Hope-Lambertville TB
- Portland-Columbia TB
- Scudder Falls TB[†]
- Trenton-Morrisville TB
- Calhoun Street TSB
- Centre Bridge-Stockton TSB
- Lower Trenton TSB
- New Hope-Lambertville TSB
- Northampton Street TSB
- Riegelsville TSB
- Riverton-Belvidere TSB
- Uhlerstown-Frenchtown TSB
- Upper Black Eddy-Milford TSB
- Washington Crossing TSB
- Portland-Columbia Pedestrian Bridge
- Lumberville Raven Rock Pedestrian Bridge

[†]All existing cameras at Scudders Falls will be decommissioned by June 1, 2019. The implementation of video analytics at this site will be deferred until the new cameras are installed.

The VA system at each location shall interface with the existing Genetec VMS and will display VA overlays and alarm notifications on the VMS displays.

Alarm notifications shall also be distributed over the WAN to the PCC.

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The VA system shall not interfere with the normal operation of the VMS nor shall it cause any degradation of the image quality at the VMS.

The VA system may include video encoders for the interface with non IP camera if such is required by the solution and design.

A number of the CCTV cameras to be utilized for VA are mounted on posts, which may sway in windy conditions. The provider of the VA system shall have to take this condition into consideration when designing for minimal False Alarm Rate.

The use of additional sensors such as RADAR, IR beams, motion detectors, etc. is permitted if such are required to achieve Probability of Detection and False Alarm Rates.

The full scale deployment of the VA shall be contingent on the successful installation and three (3) months of testing of two (2) locations – one location with six cameras and the other with ten cameras. The test will measure the performance of the VA on both Probability of Detection (POD) and False/Nuisance Alarm Rate (FAR/NAR), and the average POD and FAR/NAR shall comply with the required specifications indicated below.

In case of the inability to successfully complete the above 3-month test, the COMMISSION may decide at its own discretion to:

1. Reject the system as a whole, remove VA from the scope of the ESS CONTRACTOR and deduct the price proposed by the ESS CONTRACTOR for the VA from its contract.
2. Allow the ESS CONTRACTOR an additional, agreed-upon, period of time to correct and/or improve the system and repeat the test for a duration set by the COMMISSION.
3. Accept the system with reduced performance, and reduce its price by an amount negotiated between the COMMISSION and ESS CONTRACTOR.

The VA system ***shall be capable as a minimum*** to recognize and alert in real time (within 3 seconds of occurrence) the following events:

1. Persons and objects:
 - a. Moving in a detection designated area.
 - b. Crossing a virtual line ("trip wire") in either direction and differentiate the direction.
 - c. Crowd forming.
 - d. Loitering.
 - e. Abandoned (added) object.
 - f. Removed object.
2. Vehicles:
 - a. Speeding vehicle.
 - b. Vehicle traveling in the opposite direction.
 - c. Vehicle moving in area.
 - d. Trip wire.
 - e. Stopped vehicle.
 - f. Vehicle size (e.g. car, small truck, large truck)
3. The VA system will recognize and announce the events mentioned above at the following standards:

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- a. Probability of Detection: Greater than 95%.
- b. False Alarm Rate: Less than 1 per channel per 24 hours calculated as an average over a 90 day period.
- c. Nuisance Alarm Rate: Less than 1 per channel per 24 hours calculated as an average over a 90 day period.
4. The VA system shall have at a minimum the following post processing, video search and forensic investigation capabilities:
 - a. Provide video playback controls play, pause, fast-forward, frame-by-frame step forward and backward.
 - b. Be capable to search over a given time period either start-end dates, by time interval looking back (such as last X days, Y hours and Z minutes) or by a past date plus a looking forward interval.
 - c. Search recorded video for user-defined motion and non-motion events within the VA capabilities defined above.
 - d. Enable searching for target/s that matches a specified color or targets that does not match the specified color.
 - e. Enable filtering the results by predefined presets for vehicle size.
 - f. Enable classification and search of vehicles by type (large truck, small truck, car, etc.) or by similarity to an existing target

At a minimum, the VA system shall meet or exceed the following specifications:

1. The VA system will be a server-client solution and operate on a server class Commercial off the Shelf (COTS) computer and/or edge computers utilizing the latest updated Microsoft Windows and/or Server revision.
2. The VA system shall support a variety of COTS CCTV cameras including but not limited the brands and models of the ones existing and operating on the Commission's sites.
3. The VA system will function with no degradation of its performance with a variety video images including CIF, 4CIF, 720P, 1080P, and mega-pixel formats at frame rates up to 30 FPS.
4. The VA system shall be capable to perform its tasks on color, gray scale (including thermal) fixed or standard preset positioned PTZ cameras.
5. The VA system shall integrate with Genetec and other 3rd party VMSs through open-standards, bi-directional, XML-based API, enabling the VMSs to receive events as XML strings, to parse the events, and to extract information such as source camera, event type and event snapshot.
6. The VA system shall be capable of detecting animals, humans, all types of vehicles and other moving objects in live and pre-recorded video, outdoor, and against dynamic backgrounds including changing illumination, wind, rain, and harsh weather conditions.
7. The VA system shall be able to provide for each of the cameras:
 - i. An estimated real size in square feet (or meters);
 - ii. An estimated momentary and average real speed of an object.
8. The VA system will integrate with the existing Genetec VMS to display event views and overlays on the VMS and enable recording and playback of events on the existing video recording system.

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9. The VA system shall be able to:
 - i. Control one or more PTZ cameras and track a target automatically by controlling the pan, tilt and zoom of the camera.
 - ii. Receive and respond to an event generated by the VA itself or by other sensors that may be integrated with the VA system, by automatically moving one or more PTZ cameras to the event location.
 - iii. Once the PTZ camera has panned/tilted/zoomed to an event location, continue and track the target.
 - iv. The system will have the capability to hand over a target from one PTZ camera to another to ensure it continues target tracking.
 - v. Provide a means for the user to manually select a target, after which the system shall then begin tracking the target by automatically.
 - vi. Allow the user to override the automatic functions and control all PTZ functions manually and provide the control input devices and protocols to do so.
 - vii. Provide all protocols to allow interface for receiving PTZ commands and controls from the VMS and/or other 3rd party systems currently interfacing with or controlling the PTZ cameras.
10. In addition to the above requirements the VA system will also notify the user on:
 - i. Video signal loss on camera.
 - ii. Low frame rate on camera.
 - iii. Blocked /bumped camera.
 - iv. Low image contrast or illumination on camera.
 - v. Blinded camera.
 - vi. Excessive camera shake.

Prior to the commencement of work, the ESS CONTRACTOR shall provide the COMMISSION for approval:

1. A detailed design for the two pilot sites to include specific drawings for each site and a detailed BOM including the name, manufacturer, manufacturer part number, and quantities.
2. A supply schedule and installation plan for the two pilot sites. This plan shall include:
 - i. Detailed steps and dates to supply and install the hardware and software of the VA system;
 - ii. Detailed steps and dates for the installer's setup, configuration and adjustments required to ensure that system operates as per requirements;
 - iii. A three month monitoring plan to include test procedures, result calculation and evaluation criteria.
3. A supply schedule and installation plan for the remaining 18 sites, including schedules for the supply, installation, configuration, and completion;
4. A QA and test plan to validate the VA system functionality and integration in accordance with the requirements;
5. Specific safety requirements in addition to the ESS CONTRACTOR's general project safety plan;

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6. Steps to minimize impact to business operations; and
7. Maintenance plan and warranty information.

This work includes:

1. Installation and full integration of two (2) pilot sites at locations agreed upon by the ESS CONTRACTOR and the COMMISSION.
2. Three (3) months of monitoring and operational tests of the two pilot sites.
3. After (and contingent on) the successful completion of the installation and test of the two pilot sites, install and integrate the remaining 18 sites.
4. Provide the COMMISSION with a full set of back-up files for all sites.
5. Provide the COMMISSION with a full set of "As Built" drawings.
6. Provide all software licenses required for the operation of the system.
7. Provide all cabling, power sources, power supplies and backups to ensure the system is fully functional.

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3 PROJECT MANAGEMENT SYSTEM

3.1 OVERVIEW

The ESS CONTRACTOR shall employ a Project Management System that is sufficiently detailed to enable the COMMISSION to review and ascertain that the ESS CONTRACTOR has the necessary management, staff, and controls in place to meet the specifications of these Technical Requirements. This system shall enable the COMMISSION to continuously monitor the progress and quality of the work performed on the Project.

3.2 PROJECT SCHEDULE

The ESS CONTRACTOR shall develop a detailed Integrated Project Schedule that lists all tasks related to the design, development, testing, installation, and deployment of the ESS System Enhancements and maintenance services in Microsoft Project format (Office 2010 or above). The ESS CONTRACTOR shall ensure that ESS System Enhancements are installed, tested and commissioned in time to meet the respective Operational Acceptance Tests for each phase. The Integrated Project Schedule shall include, integrate, and correlate changes to key milestone on the Master Construction Schedule that must be correlated for the implementation of the ESS System Enhancements. The Integrated Project Schedule should identify all milestones and events starting with the Notice to Proceed (NTP) through the projected date of Provisional Acceptance of each enhancement phase and for the end of each maintenance period. This Integrated Project Schedule shall form the basis for all subsequent schedules and updates throughout the duration of the Project. The Integrated Project Schedule shall be the project baseline upon acceptance by the COMMISSION. The ESS CONTRACTOR shall be required to update the Integrated Project Schedule on a weekly basis and submit as a part of the weekly progress report.

3.3 WEEKLY PROGRESS MEETINGS AND REPORT

At a minimum, bi-weekly progress meetings shall be held at a location designated by the COMMISSION. Five (5) working days prior to the meeting, the ESS CONTRACTOR shall submit a bi-weekly progress report to the COMMISSION. The reports shall include the following documents:

1. A written report outlining the labor, materials, and the percentage of work completed for each task in the Integrated Project Schedule. Comments shall be included, where appropriate.
2. The written report shall include an analysis of all critical path tasks, potential risks associated with them and any contingency plan to circumvent a delay to those items.
3. An updated Integrated Project Schedule showing proposed changes from the Approved Integrated Project Schedule, if any and showing progress from the previous month. If no Integrated Project Schedule change has occurred, the ESS CONTRACTOR shall so state.
4. If applicable, all change order requests or monetary change requests to the Contract shall be submitted with the monthly progress report in accordance with the terms of the Contract.

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5. A summary of the time devoted to the Project by each Key Staff for the immediately preceding month.
6. A two (2) week look ahead for all planned work submitted weekly.
7. An updated action items list from the previous weekly meeting.
8. Approved minutes of the previous weekly meeting.
9. A progress payment request, if applicable, with the monthly progress report. Progress payment requests received at other times will be held until the following month.

3.4 PROJECT MEETINGS

In addition to the bi-weekly progress meeting, other regularly scheduled or ad hoc Project meetings may be required during the course of the Project. It is critical that the ESS CONTRACTOR coordinate installation activities with the construction contractor and regular meetings shall be scheduled to coordinate schedule tasks. It is anticipated that in addition to regular overall project status meetings, project specific technical meetings, and sub-committees may have reporting requirements on a more frequent basis as needed. These activities will likely require separate meetings or conference calls, and minutes reporting on technical or other specific aspects of the Project.

The ESS CONTRACTOR shall perform the following tasks related to all meetings:

1. Distribute notices of Project meeting and post in accordance with document control requirements.
2. Prepare the agenda in coordination with the COMMISSION Project Manager.
3. Attend the meetings with all required staff in attendance.
4. Prepare draft minutes of the meeting and forward them to the COMMISSION Project Manager within five (5) working days after the day of the meeting.

3.5 STAFFING

It is the ESS CONTRACTOR'S responsibility to maintain and assign a sufficient number of competent and qualified professionals and other technical personnel with demonstrated experience with similar systems, hardware and software, full-time, (7) seven days a week, (24) twenty-four hours per day, (365) Three hundred and sixty-five days a year to meet the specifications of these technical requirements. Work performed under this contract shall be performed by qualified workers with prior experience with similar systems such as Genetec VMS and ACS, Cisco networking, UPS installation, fiber optic communications, VA, Active Directory and Microsoft Operating systems.

The ESS CONTRACTOR shall maintain dedicated on-site personnel qualified to administer, maintain, and support the business operations, (7) seven days a week, (24) twenty-four hours per day, (365) Three hundred and sixty-five days a year. The ESS CONTRACTOR shall describe how availability and response time requirements will be achieved. The ESS CONTRACTOR shall describe the anticipated location of staff as well as the planned locations of the ESS CONTRACTOR'S nearest offices and for relief of the assigned staff in the event of vacation, illness, personal business, or any other absence.

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3.5.1 KEY PERSONNEL

The ESS CONTRACTOR shall provide the COMMISSION with an Organization Chart that identifies the ESS CONTRACTOR'S employees dedicated to this Contract (the "Key Staff"). The chart shall identify Key Staff responsibilities and identification of the resources to be used in fulfilling the requirements of this Contract. It shall be the ESS CONTRACTOR'S responsibility to maintain and assign a sufficient number of competent and qualified professionals, and other technical personnel full-time, (7) seven days a week, (24) twenty-four hours per day, (365) Three hundred and sixty-five days a year to provide the requirements specified in these Technical Requirements.

Replacement of Key Staff personnel shall be submitted to the COMMISSION for review and approval prior to replacement of individual.

3.5.2 STAFFING PLAN

The ESS CONTRACTOR shall identify staffing requirements at a level immediately below the Key Staff required to meet project requirements. The Staffing Plan shall, in addition to identifying personnel immediately below Key Staff, provide a time line reference for anticipated resource requirements for the duration of the project.

3.6 PROGRAM MANAGEMENT PLAN

The ESS CONTRACTOR shall submit a Program Management Plan to the COMMISSION for review and acceptance in accordance with the terms of the Contract. The Program Management Plan shall describe the ESS CONTRACTOR plans to manage the project including staffing, scheduling, communication procedures for controlling all correspondence, submittals and other communications between the ESS CONTRACTOR and COMMISSION. Since the ESS CONTRACTOR has to work with other contractors on this Project, the communications among the teams is very critical for the success of the Project and shall be clearly documented.

The Program Management Plan shall include but not be limited to:

1. An Organization Chart that identifies the ESS CONTRACTOR'S employees dedicated to this Project including, the Key Staff. The Organization chart shall identify Key Staff responsibilities and identification of the resources to be used in fulfilling the requirements of this Contract.
2. A description of the planning, communications and reporting methods to be utilized, both for internal communications with the ESS CONTRACTOR'S staff and externally to the COMMISSION. This description shall include the protocol and procedures for communications with the COMMISSION, day-to-day operations, logs, invoices, orders and reporting general issues, and problems.
3. How the Integrated Project Schedule and performance will be reported and tracked for development activities and transition activities.
4. Comprehensive Project Contact List.
5. Document and Project Controls, including:

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- **Correspondence:** Correspondence shall be identified as to originator and designated receiver.
- **Document Control:** The ESS CONTRACTOR shall manage the project correspondence through Document Control software to which the COMMISSION shall be a user and have access.
- **Submittals:** All submittals shall be submitted as an enclosure to the ESS CONTRACTOR'S submittal letter. Each submittal letter shall be limited to a single subject or item. The ESS CONTRACTOR'S letter shall identify the letter itself, Contract number, Project name, and subject of the submittal.
- **Contract Number and Contract Name:** All items of correspondence, submittals, and documentation shall contain the Contract Number and the words "Electronic Surveillance/Detection System (ESS)."
- **Information:** No party shall be entitled to rely on any information unless it is in writing and received from the other party's Designated Representative.
- **Change Orders:** Any change orders procedures in accordance with the Contract.
- **Status:** COMMISSION or COMMISSION'S REPRESENTATIVE may inquire of the ESS CONTRACTOR as to the status of the Project and shall be provided regular updates.
- **Access to ESS CONTRACTOR Key Staff:** COMMISSION or COMMISSION'S REPRESENTATIVE, who is knowledgeable in the field of work, shall have unlimited access to the Key Staff during the ESS CONTRACTOR'S performance of this Contract.
- **Escalation procedures:** 1st, 2nd, and third level, and third party technical support.

3.7 DEVELOPMENT AND WALKTHROUGH

The ESS CONTRACTOR shall conduct a series of migration walkthroughs to serve as progress reviews and to solicit and obtain inputs from the COMMISSION during the development of the ESS System Enhancements. The intent of these walkthroughs is to help ensure that the final result shall meet the COMMISSION'S technical and operational requirements specified in these Technical Requirements.

3.8 DOCUMENTATION

3.8.1 GENERAL

The ESS CONTRACTOR is required to provide various Design, user, installation, and training documentation. All documentation provided shall meet the requirements described below.

Draft copies of all documentation shall be submitted to the COMMISSION for review, comment and acceptance, prior to final printing in quantities specified below. The COMMISSION shall have the right to require additional interim drafts at no additional cost should draft documentation submitted not be of adequate quality or have missing or incorrect information.

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Unless otherwise directed in this section, the ESS CONTRACTOR shall supply a minimum of six (6) hard copies of final documentation for each deliverable in this section, with two (2) copies on Approved electronic media and in Approved software.

3.8.2 ENGINEERING DESIGN

The ESS CONTRACTOR shall prepare and submit an engineering Design package to the COMMISSION, and COMMISSION'S REPRESENTATIVE for review. The engineering Design package shall be submitted to the COMMISSION and COMMISSION'S REPRESENTATIVE in accordance with the Contract terms or as mutually agreed to by the ESS CONTRACTOR and the COMMISSION.

The ESS CONTRACTOR shall secure the services of a fully qualified engineering design firm(s) for the purpose of providing electrical, mechanical, structural oversight and documentation approval for all installation drawings. All drawings must be sealed, stamped, and certified by a Licensed Engineer of the appropriate discipline valid in both the State of New Jersey and Pennsylvania.

The ESS CONTRACTOR shall develop a full size (22" x 34") set of drawings providing sufficient detail to install the system components. In addition, the drawing shall contain notes and other detailing defining specific processes that cannot be graphically depicted. The notes shall also be used to delineate specifications, tolerances, special conditions, or any other factor required to install and integrate a fully functional system.

The drawings shall include but not be limited to the following:

1. Equipment rack elevations
2. Equipment mounting detail
3. Specifications and tolerances
4. Cable schedule showing all cable and wire to be used
5. Conduit detail
6. Electrical cabinet detail
7. Power and communications wiring diagrams
8. Surge suppression system
9. A graphical diagram of the network connectivity and data flow
10. Notes detailing any items that may not be clear or implied

3.8.3 SYSTEM REQUIREMENTS DOCUMENT

The completion of the system requirements review shall result in the submission of the System Requirements Document that documents all the requirements of the ESS System. The System Requirements Document shall include the source of the requirement. This document shall be updated to reflect any changes to the requirements that have been approved by the COMMISSION. The System Requirements Document shall be used during testing to verify the System compliance to the Contract requirement.

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3.8.4 SYSTEM DETAILED DESIGN DOCUMENT

The ESS CONTRACTOR shall submit a System Detailed Design Document (SDDD) that describes the Design specifications of all hardware and software provided to meet the requirements on the ESS system. The SDDD shall be submitted in accordance with the terms of the Contract or as may be mutually agreed to by the ESS CONTRACTOR and the COMMISSION. Hardware Design shall describe all hardware specifications. Software Design shall be described to the module and process level. The SDDD shall be submitted in draft form, after which the Design reviews shall take place. Upon completion of the Design reviews, the SDDD shall be revised and submitted to the COMMISSION for review and final approval.

The SDDD shall include but not be limited to:

1. The specification sheets for all equipment;
2. The requirements for all peripheral device interfaces and control;
3. Listing of all functions, the source of the baseline code (project used on), version and date;
4. Module level descriptions and interaction among various modules;
5. Interface Control Documents (ICDs) for all interfaces;
6. UPS sizing;
7. Cabinet interconnection diagrams;
8. Network sizing and Design details including IP scheme;
9. Overall Network topology;
10. Degraded mode of operations and impacts of failure on system operations;
11. Computer sizing and Design details.

The SDDD shall demonstrate that the ESS CONTRACTOR understands the functional and operational requirements of the Contract and has the Design processes and policies in place to provide a high quality and reliable product that meets the requirements of the Contract.

Prior to Contract Acceptance, the ESS CONTRACTOR shall submit the As-Built SDDD that includes all changes made during the software development, installation, and testing phase.

3.9 QUALITY ASSURANCE AND QUALITY CONTROL PROGRAM

The ESS CONTRACTOR shall establish and maintain an effective Quality Assurance/Quality Control (QA/QC) program to ensure compliance with the requirements of this Contract. The QA/QC Program shall ensure adequate quality throughout all areas of the performance of this Contract including, Design, development, fabrication, processing, assembly, inspection, test, maintenance, packaging, shipping, storage, site preparation, and installation. This Quality Assurance Plan identified below shall detail the process and procedures instituted by the ESS CONTRACTOR to ensure the QA/QC program is in place. The ESS CONTRACTOR QA/QC program shall comply with ISO 9000 standards.

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All supplies and services under this Contract, whether manufactured or performed within the ESS CONTRACTOR'S plant or at any other source, shall be controlled at all points necessary to ensure conformance to the specifications of this Contract. The QA/QC Program shall provide for the prevention and ready detection of discrepancies and for timely and positive corrective action. The ESS CONTRACTOR shall submit a copy of their QA/QC Program for reference and shall make objective evidence of quality conformance readily available to the COMMISSION.

The QA/QC Program shall include effective control of purchased materials and subcontracted work, manufacturing, fabrication, and assembly work conducted within the ESS CONTRACTOR'S plant shall be controlled completely by the ESS CONTRACTOR.

3.10 QUALITY ASSURANCE PLAN

The Quality Assurance Plan that details the ESS CONTRACTOR'S QA/QC Program shall be submitted to the COMMISSION for review and acceptance ten (10) working days after the Notice to Proceed or as may be mutually agreed to by the ESS CONTRACTOR and the COMMISSION.

The Plan shall include the ESS CONTRACTOR'S QA/QC Program through Design, production, purchasing and testing of all hardware and software provided under this Contract. The QA/QC Program shall also include, at a minimum, problem logging and tracking, follow-up tracking, and final disposition tracking during the testing and implementation. The quality control process shall ensure accurate problem description and recording, assignment of personnel, tracking of progress for corrections/revisions, and disposition of the problem throughout the Design, development, testing and implementation phases of the Project.

3.11 CONFIGURATION MANAGEMENT SYSTEM

The QA/QC Plan shall detail the ESS CONTRACTOR'S Configuration Management System that shall be utilized for all correspondence, memos, drawings, server and workstation imaging and other submittals regarding the COMMISSION project.

3.12 CHANGE CONTROL PROCESS

The QA/QC Plan shall detail the ESS CONTRACTOR'S Change Control Process that shall be instituted for the COMMISSION project.

3.13 RECORDS

The ESS CONTRACTOR shall maintain records or data essential to providing objective evidence of quality until the expiration of the guarantee/warranty period and they shall be made available to the COMMISSION upon request. Examples of quality-related data include: inspection and test results, records of sub-contractor QA/QC Programs, cost records pertinent to acceptance of nonconforming material, change order back-up, Design reviews and walkthroughs, and the results of internal and ESS CONTRACTOR audits. Records shall be maintained in a manner that will allow for easy access and analysis of the status of the overall QA/QC Program.

3.14 CONTROL OF PURCHASE

The ESS CONTRACTOR shall be responsible for ensuring that all supplies, components, developmental tools, assemblies, subassemblies, and services procured from sub-contractors and ESS CONTRACTORS conform to the specifications of this Scope of Work. The ESS CONTRACTOR'S responsibility includes the establishment of procedures for the selection of

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qualified suppliers. In selecting qualified suppliers, the ESS CONTRACTOR shall ensure that the sub-contractors and ESS CONTRACTORS control the quality of the supplies and services provided.

3.14.1 INSPECTION AND VERIFICATION

The ESS CONTRACTOR'S QA/QC Program shall include requirements for inspection and verification for in-process, final assembly, unit tests and system testing of the ESS CONTRACTOR supplied Systems.

3.14.2 HANDLING, STORAGE, AND DELIVERY

The ESS CONTRACTOR'S QA/QC Program shall provide for adequate, documented handling, storage, preservation, packaging, and shipping instructions to protect the quality of products required by this Scope of Work. Any unique or special requirements applicable to procured items shall be delineated in the procurement documents. All procurement documents shall be made available to the COMMISSION upon request.

3.14.3 INSPECTION AT SUB-CONTRACTOR-ESS CONTRACTOR FACILITIES

The COMMISSION reserves the right to inspect, supplies or services not manufactured or performed within the ESS CONTRACTOR'S facility. The COMMISSION inspection shall not constitute acceptance, nor shall it in any way replace the ESS CONTRACTOR'S inspection activity or relieve the ESS CONTRACTOR of the responsibility to furnish an acceptable end product.

3.15 TRAINING

3.15.1 OVERVIEW OF TRAINING PROGRAM

The ESS CONTRACTOR'S program shall include formal and informal instruction, models, manuals diagrams and component manuals and catalogs as required. Where practical and useful, training should be hands on and should use actual system software and screens on a work station or work stations and actual equipment. All training materials and manuals shall be produced in hard copies sufficient to provide one (1) copy for each person being trained as specified in Sections 3.12.3, 3.12.5, and one (1) reproducible set of documentation on compact disc that may be used for future training sessions.

Unless otherwise noted, the ESS CONTRACTOR shall be solely responsible for supplying all of the items necessary to complete the delivery of the training program.

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4 INSTALLATION REQUIREMENTS

The installation requirements Electronic Surveillance / Detection System (ESS) are defined in this section. The ESS CONTRACTOR shall submit an installation plan that identifies their approach for the installation and upgrade of the major elements for each phase of the Project defined in Section 2.2 of these Technical Requirements. Unless accepted in writing by the COMMISSION, no work shall proceed until satisfactory completion of a factory acceptance test.

4.1 INSTALLATION PROGRAM

The ESS CONTRACTOR is responsible for the installation of all Electronic Surveillance / Detection System (ESS) equipment provided under this Contract.

4.1.1 INSTALLATION PLAN

The ESS CONTRACTOR will develop an installation plan that documents all installation related activities for the project. The installation plan will be the master document from which the elements of the system will be installed. The installation plan will include and define, at a minimum, the following items:

1. The proposed installation schedule detailing installation activities for all phases of the Project. Once the baseline schedule is approved by the COMMISSION, weekly status updates identifying schedule changes and work progress in the form of percentage complete. These updates shall be submitted to the COMMISSION.
2. The minimum resource allocation requirement for any installation phase.
3. How the ESS CONTRACTOR will coordinate with any other COMMISSION the construction contractor(s) working on the same facilities to maximize on lane closures and minimize traffic delays.
4. How the ESS CONTRACTOR will manage delivery and staging of the Electronic Surveillance/Detection System (ESS) equipment to be installed.
5. The order that the Electronic Surveillance/Detection System (ESS) equipment items are to be installed and the estimated durations of installation.
6. Any special or unique installation requirement.
7. Equipment required to perform installation of the Electronic Surveillance/Detection System (ESS) System Enhancements.
8. Requirements for lane closures or other maintenance or traffic requirements.
9. A detailed component list and how each item will be documented for equipment configuration management. At a minimum, the ESS CONTRACTOR shall document the part number, model number, version, and serial number to be recorded in the COMMISSION'S Asset Management System.
10. Organization chart defining key personnel. This chart shall be reviewed and accepted by the COMMISSION. Any changes to the staff identified on the chart or responsibilities shall be submitted in writing to the COMMISSION for review and acceptance.

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4.1.2 WEEKLY INSTALLATION STATUS MEETINGS

The ESS CONTRACTOR shall schedule and attend weekly installation meetings during the installation phases of the project. The ESS CONTRACTOR and any sub-contractors shall ensure that the appropriate personnel are present at these meetings, who can represent the ESS CONTRACTOR'S interest and provide the required status and information. The ESS CONTRACTOR shall prepare and distribute a meeting agenda at least 48 hours prior to the scheduled meeting. The meeting agenda shall consist of those items pertaining to the installation and schedule for the previous and current week's installation efforts. All issues recorded during the installation activity for the week shall be discussed and resolved. An open items actions list shall also be maintained for any outstanding work items related to the weekly meeting. At this meeting, the ESS CONTRACTOR should also be prepared to address any issues or questions by the COMMISSION or their representative.

4.1.3 CONSTRUCTION COORDINATION WITH COMMISSION INFRASTRUCTURE CONTRACTORS

The COMMISSION may have other infrastructure construction at any of the facilities during the period of this Contract, and the ESS CONTRACTOR is responsible to coordinate their activities with those contractors. The ESS CONTRACTOR shall: (1) provide all required, or as designated by the COMMISSION, Design and installation drawings and installation instructions to the COMMISSION and its other construction contractors for all Electronic Surveillance/Detection System (ESS) equipment provided; (2) review all third party contractor provided drawings with respect to impacts, or work in the vicinity of, the ESS system; (3) approve all aspects of such drawings related to the Electronic Surveillance/Detection System (ESS) and (4) ensure the Electronic Surveillance/Detection System (ESS) needs necessary to meet the requirements set forth in these Technical Requirements are met with regard to such Design; (5) coordinate all installation activities with construction activities. This includes responsibility for ensuring that the locations, positions, installation, connections and other elements is identified on the Design and installation drawings provided by the ESS CONTRACTOR for all equipment provided under this Contract, whether in-roadway, gantry mounted, or otherwise located, meet the requirements of this SOW.

During the project Design, development and installation periods there shall be a series of meetings among the ESS CONTRACTOR, the construction contractors, and the COMMISSION to clearly define and develop the installation requirements, methodology, timetables, test plans, roles, and contingency plans. In addition, the ESS CONTRACTOR shall attend regular progress meetings during the construction period for all of the contract stages to ensure that proper coordination is taking place and to report on progress of the ESS installation. The ESS CONTRACTOR shall identify and communicate any issues, delays, or other items affecting the Electronic Surveillance/Detection System (ESS) installation and upgrade on a timely basis to the COMMISSION'S Project Manager and the Director of ESS.

4.2 INSTALLATION SCOPE OF WORK AND REQUIREMENTS

The ESS CONTRACTOR is responsible for the installation of all equipment enclosures, conduits, junction boxes, equipment cabinets, and cable trays required to support Electronic Surveillance/Detection System (ESS). The ESS CONTRACTOR is also responsible for procurement, installation, terminating, and testing of all equipment provided by the ESS

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CONTRACTOR as part of the Electronic Surveillance/Detection System (ESS) under this Contract. The ESS CONTRACTOR is also responsible for the Maintenance of Traffic and lane closures shall meet the COMMISSION'S MOT specifications. The ESS CONTRACTOR is responsible for procurement, installation, termination, and testing of all equipment provided by the ESS CONTRACTOR as part of the Electronic Surveillance/Detection System (ESS).6.27

4.2.1 COMPLIANCE TO STANDARDS

The ESS CONTRACTOR shall adhere to all installation standards, applicable laws, ordinances, and codes as required by the NEC, IEEE, OSHA, the COMMISSION, and States of Pennsylvania and New Jersey regulations including but not limited to electrical, structural, and environmental. The ESS CONTRACTOR shall also conform to all standards and specifications required per PENNDOT publication 408/2003. All installations shall meet or exceed the prescribed standards, codes, laws, and requirements. The ESS CONTRACTOR shall be responsible for all cost associated with any permits, plan reviews, and inspection cost. The ESS CONTRACTOR shall be responsible to procure all documentation required to install and adhere to the installation standards, specifications, ordinances, or codes.

4.2.2 ESS INSTALLATION REQUIREMENTS

The ESS CONTRACTOR shall supply all personnel, tools, materials, and equipment required to perform installation and update of the ESS server and workstations.

Where the ESS CONTRACTOR is providing components supplied by third party ESS CONTRACTOR, the ESS CONTRACTOR shall ensure that all such components are installed in accordance with the manufacturer's guidelines. In addition, the ESS CONTRACTOR shall provide such components or subsystems on site and/or remote technical support as necessary to ensure the proper form, fit, and functions at no additional cost to the COMMISSION.

The installation scope of work includes but is not limited to:

1. Furnish and install all connecting conduit from the wire ways and or demarcation points.
2. Furnish and install all junction boxes, pull boxes, conduits, and other such items as required by the installation standards and requirements.
3. Furnish and install all cables and wiring for all equipment, overhead equipment, junction boxes, control panels, and enclosures. This also includes the proper termination of all power, communication, RF cables and/or other wiring (copper, co-ax, or fiber optic) required to connect the individual components into a fully operational system.
4. Validate all cable and wire terminations via a test process to ensure that the connection has been properly terminated and that the connection is attached to the correct location at both ends of the cable.
5. Furnish and install all devices, or other such items per the Technical Requirements. This also includes installation of software and configuring the device.
6. Validate all equipment correctly connects to the appropriate network. All communications networks shall be tested and verified for full operations.
7. Furnish and install all cabinets and enclosures required to house the electronics,

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computers, UPS, and environmental control devices as required. All cabinets and enclosures exposed to the out of doors shall be constructed of stainless steel and have a NEMA 4X rating.

8. Furnish and install all brackets or required hardware used to attach the equipment to the racks or other support structures.
9. Furnish and install surge suppression for protection of the equipment.
10. Preparation of final as-built drawings and submittal to the COMMISSION.

4.2.3 SYSTEM INSTALLATION AND UPGRADE

The ESS System Enhancements shall include all servers, workstations, storage devices, network components, and other data processing units required to meet the requirements of these Technical Requirements. The ESS CONTRACTOR shall submit proposed layout drawings for review and acceptance by the COMMISSION or COMMISSION'S REPRESENTATIVE. The ESS CONTRACTOR shall take into consideration the environmental state, power, and floor loading conditions required in order to maintain and install all elements of the ESS System.

The ESS CONTRACTOR is responsible for installation of all items associated with the ESS System identified in these Technical Requirements, including but not limited to:

1. Installation of the equipment cabinets, communications equipment, and other peripheral equipment needed to support the ESS System.
2. Installation and testing of all communication lines from the field devices to the ESS host servers.
3. Testing of the installed equipment for correct point to point installation, proper connectivity, acceptable termination of all cable and wire ends, and successful communications linkage.
4. Providing surge protection into all electrical paths in order to safely divert energy spikes to an acceptable system and building ground.
5. Ensuring that the ESS System ground is fully integrated with the building/site grounding system.
6. Provide and install all other items, materials, and equipment to complete the installation of the ESS System to meet the specification in these Technical Requirements.

4.2.4 INSTALLATION CHECKLIST

The ESS CONTRACTOR shall develop an installation checklist defining the staging, sequence of installation, testing, and integration for the new ESS servers and workstations. The checklist shall be a document detailing those items required for the installation crew to complete the installation process. An attested copy of the checklist shall be provided to the COMMISSION after the completion of the installation activity for each server and workstation, subsystem and the entire ESS system.

4.2.5 ELECTRICAL WORK

The ESS CONTRACTOR shall perform all electrical work in conformance with electrical codes so as not to damage or harm any person or equipment. The electrical work to be performed shall

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include but not be limited to the following general work items.

1. Install junction boxes and terminate cable or wiring per the applicable standard specifications.
2. A grounding system shall be provided for all equipment provided by the ESS CONTRACTOR. Any metallic enclosures, conduits, junction boxes, or other conductive items shall be bonded to a grounding system in conformance with standard specifications of the State of Pennsylvania, or State of New Jersey as applicable for those facilities, the COMMISSION, and the NEC.
3. All electrical work shall be performed in accordance with the applicable regulations. Appropriate NEC compliance shall be adhered to with all electrical articles for installation pertaining to wiring, enclosures, and other electrical equipment in hazardous locations.
4. UL labels shall be provided for all electrical panels, enclosures, and accessories.
5. All electrical equipment must be inspected prior to installation for defects that could damage the equipment or harm personnel. Any equipment found to have defects shall not be installed and shall be replaced with an acceptable replacement.
6. All electrical equipment shall be properly grounded for safety. Most equipment shall be furnished with grounding pads or lugs. All ground connections shall be cleaned immediately prior to connection. The ESS CONTRACTOR shall provide all grounding material required but not furnished with the equipment. No grounding conductor shall be smaller in size than 12 AWG unless it is a part of an acceptable cable assembly. NEC sections 250-81 and 250-83 will govern electrodes used for making ground connections.
7. Surge protection shall be incorporated into all electrical paths in order to safely divert energy spikes to an acceptable ground. The surge suppression system shall be utilized in conjunction with the grounding system and the lightning arrestors.
8. A lightning protection system shall be installed to provide a path of low resistance for current to travel in the event of a lightning strike. The lightning protection system shall consist of lightning rods installed at the highest point of the overhead structure. The lightning rods shall be tied together with a continuous heavy copper wire. The heavy copper wire shall extend to the Approved ground and be attached using welds in order to keep all points along the path at the same potential, connectors are not acceptable. The static grounding system for the lightning protection system shall not use as a ground any part of the electrical current carrying system.

4.2.6 WORK STANDARDS AND REQUIREMENTS

The ESS system equipment installation shall be scheduled so as not to disrupt or delay traffic during the installation process. The ESS CONTRACTOR shall make every attempt to coordinate the installation work schedule and any potential lane closures requirements outside of the peak traffic periods as indicated below

Peak Travel Time is between 6:00 AM to 9:00 PM

Off-Peak Travel Time is between 9:30AM to 2:30PM

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Peak travel times are applicable for all bridges. In the event extended lane closures will be required to complete certain installation processes, lane closures are subject to the approval of the District Superintendent or the Chief Engineer, and may have to be accomplished during night time hours.

The ESS CONTRACTOR shall provide project management and oversight for all work performed. At all times while installation work is taking place, the ESS CONTRACTOR shall have an individual available who has been designated in the Organization Chart as the Site Manager for supervision of the installation.

The ESS CONTRACTOR shall install the equipment in accordance with industry accepted standards, using experienced and knowledgeable personnel. For example, journeyman electricians shall terminate all cables, wiring, or fiber optic cables. In addition, all tools such as crimpers, fiber optic termination tools, and all test equipment shall be properly calibrated. All work performed by all personnel shall be neat and the area left in clean state upon completion.

The ESS CONTRACTOR shall provide a safe environment for the installation process, including but not limited to the following procedures:

1. Safety harnesses shall be used on all man lifts and the personnel shall be trained on the proper use of the harness.
2. Safety vest shall be worn in the construction area and anytime on or around an active lane where live traffic may travel.
3. Hard hats shall be worn in the construction area.
4. Safety toe shoes shall be worn in the construction area.
5. Temporary lane closure devices and signage, etc.
6. All ESS CONTRACTOR personnel or sub-contractor personnel shall have and display at all times while on DRJTBC sites, a COMMISSION approved personal identification badge.

4.3 DESIGN AND DOCUMENTATION DURING INSTALLATION

4.3.1 ENGINEERING DESIGN DRAWINGS

The ESS CONTRACTOR shall utilize the most recent COMMISSION accepted engineering drawings to perform any and all installation services. Field modifications to processes and the installation drawings may be made if the changes are accepted by the COMMISSION and properly documented as red lines on the installation drawings.

4.3.2 INSTALLATION DESIGN AND DRAWINGS

The ESS CONTRACTOR shall maintain a configuration management system whereby all drawings are titled, date updated, revision version, and signature blocks. Only the latest accepted drawing version may be used for installation. All drawings and other such documentation shall be made accessible to the COMMISSION for review at their request. Examples of documentation are:

1. Shop drawings or sketches, both hand drawn and computer generated
2. Memos and requests for information (RFI) providing change information or reasoning for

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modifications to any drawing

3. Red line drawings

4.3.3 AS-BUILT DRAWINGS/DOCUMENTATION

The ESS CONTRACTOR and any sub-contractors shall update the most recent COMMISSION accepted drawing versions with any red line changes. At the completion of the installation of the Project, the ESS CONTRACTOR shall amass all red line drawings. The red line drawings shall be verified and then incorporated into the final as-built drawings package. The final as-built drawing package shall include the installation drawings, shop drawings, sketches, and any other drawing types used for installation of the ESS system. The ESS CONTRACTOR shall provide the as-built drawing package to the COMMISSION. All other documentation used regarding the installation shall also be finalized and submitted to the COMMISSION as part of the as-built submittal.

4.3.4 TEST DOCUMENTATION: MASTER TEST PLAN AND PROCEDURES

As detailed in Section 5, the ESS CONTRACTOR shall submit a Master Test Plan and the appropriate test procedures for each test identified in Section 5 to the COMMISSION for approval. Test procedures shall detail the step by step process for validating the requirements of the Contract. The Master Test Plan shall be submitted in accordance with the terms of the Contract or as may be mutually agreed to by the ESS CONTRACTOR and the COMMISSION.

4.4 MANUAL REQUIREMENTS

4.4.1 OVERVIEW

Manuals shall be provided in accordance with the terms of the Contract or as may be mutually agreed to by the ESS CONTRACTOR and the COMMISSION and as described below to allow the COMMISSION to fully understand and operate the ESS system.

The existing ESS system manual shall be updated to reflect the current system environment.

All text and data in the quantities requested shall be printed on 8-1/2" x 11" sheets. Foldouts should not exceed 11" x 17". Paper used in manuals shall be of a heavy weight, sufficient to withstand the rigors of maintenance and operating environment. Manuals shall be housed in durable, three (3) ring binders with sufficient excess capacity for revisions and additions.

Each manual shall contain a title sheet, table of contents, list of illustrations, and list of reference drawings (if applicable) and a parts list (if applicable). All manuals with over twenty five (25) pages shall have an index.

All manuals shall be produced in an Approved Microsoft software product or Approved equivalent. Acceptable softcopy formats are Microsoft Office 2007 Suite or higher, and Microstation 8 or higher for prepared documentation as listed below. Soft copies of manuals may be provided in unsecured Portable Document Format (.pdf).

Any special software required to produce scalable typefaces or other graphs shall be require acceptance in advance by the COMMISSION and be provided by the ESS CONTRACTOR as part of the documentation for the manuals.

4.4.2 MANUAL QUANTITIES

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Hard Copies of manuals shall be provided to the COMMISSION in the quantities listed in the Table below. The ESS CONTRACTOR shall also submit six (6) CD-ROM or DVD-ROM diskettes containing soft copies of all of the manuals listed below. Each CD-ROM or DVD-ROM shall be clearly labeled and contain an indexed booklet listing the contents of the disk. The ESS CONTRACTOR shall be responsible for producing an additional quantity of the manuals for the ESS CONTRACTOR'S use sufficient to fulfill the ESS CONTRACTOR'S requirements under the Contract.

4.4.3 MANUALS TO BE SUBMITTED

The ESS CONTRACTOR shall submit the manuals described below per the accepted Integrated Project Schedule.

4.4.4 ESS SYSTEM OPERATIONS PLAN

The ESS CONTRACTOR shall provide an updated ESS System Operations Plan when enhancements to the system affect the System Operations Plans, which documents all aspects of the affected operations of the ESS system. It shall include all business rules, policies, and procedures required to operate the ESS system.

4.4.5 SYSTEM USER'S MANUAL

The ESS CONTRACTOR shall provide an updated System User's Manual that details the use of the System application software for all elements that serve the ESS systems and subsystems and other functions as identified in these Technical Requirements. Separate sections shall be produced for each of the separate applications and functions (e.g. VMS, ACS, Video Analytics, etc.). The manual shall describe how to use the system, including all available reports, and menus. The manual shall contain screen images, illustrations, and pictorial diagrams to demonstrate the step-by-step operations required for performing functions and navigating the screens. The manual shall clearly explain all system reports and the data fields.

4.4.6 MAINTENANCE SERVICE MANUAL

The ESS CONTRACTOR shall provide an updated Maintenance Service Manual for use by technical personnel to maintain the new hardware and software installed for the ESS system. This manual shall include but not be limited to the following sections: Version Control/Change Logs, General description and system overview; theory of operation; detailed operator instructions; mechanical functions; installation; test and troubleshooting procedures; preventive and corrective maintenance procedures and schedules; diagrams; schematics; layouts, and parts lists required to service each piece of hardware supplied under this Contract. A list of all error codes with description of meaning and a step by step guide to troubleshooting shall be included in the troubleshooting section.

Standard service manuals for commercial products used for the equipment will be acceptable if they contain sufficient information to service the equipment. Large-size logic diagrams and mechanical assembly diagrams do not have to be reduced or incorporated into the manuals if these drawings are provided with the manuals. Actual equipment maintenance images with call-outs needs to be provided where there is no other maintenance documentation.

The Maintenance Service Manual shall also include sections of the Asset Management System that will be used by the service and operations staff to monitor problems and close work orders.

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It shall also include a section addressing the maintenance requirements and how such requirements will be monitored and reported.

4.4.7 SYSTEM ADMINISTRATORS MANUAL

The ESS CONTRACTOR shall provide an updated System Administration Manual or provide a new manual if one does not exist that serves as a guide to the overall management and administration of the ESS system and shall include a troubleshooting guide for the system administrator. The manual shall include detail descriptions of all of the programs and processes that require monitoring to ensure the system is operational and properly functioning. It shall allow the administrator to confirm the completion of scheduled jobs, and investigate and identify problems. A listing of all the error codes and their purpose and potential problems shall be included in the manual with a step by step guide to troubleshooting and correcting the problem. All database Design, and database maintenance activities required to keep the System operational shall be clearly documented, including the scheduling of such activities and server and workstation imaging for recovery purpose. A system inventory of all hardware, software and any related equipment, configuration details shall be included.

4.4.8 THIRD PARTY SOFTWARE MANUAL SET

The ESS CONTRACTOR shall provide software manuals for each third party software system supplied under these Technical Requirements. This set shall include user's manuals, programmer's reference manuals, installation manual, and maintenance manuals, and shall contain all required information on items including the operating system, utilities, programming languages, application software, and communications software. The package shall also include all required electronic media to install, operate, and maintain the system being supplied. The Third Party Software Manual shall be provided by the ESS CONTRACTOR in a standard and organized format, with appropriate labels, tabs, and cross references to allow the COMMISSION to easily access and reference information on each software component on the System.

All patches and updates made to the system software (third party and ESS CONTRACTOR) after Project Acceptance shall also be provided to the COMMISSION in electronic media.

4.4.9 THIRD PARTY HARDWARE MANUAL SET

ESS CONTRACTOR shall supply hardware manuals for all third party hardware supplied under these Technical Requirements. The documentation shall include, but not be limited to, all technical manuals, operator's guides, installation guides, hardware reference manuals, available options and versions, catalogs, components, and illustrated parts lists. The third party hardware manual shall be provided by ESS CONTRACTOR in a standard and organized format, with appropriate labels, tabs, and cross references to allow the COMMISSION to easily access and reference hardware information on each equipment component. Additionally, with each third party hardware manual, the ESS CONTRACTOR shall include sufficient documentation to describe the configuration of the hardware as it was set by the ESS CONTRACTOR for ESS system.

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4.5 AS-BUILT DOCUMENTATION

4.5.1 SYSTEM DETAILED DESIGN DOCUMENT

After the completion of the Technical and Performance Test, and prior to the COMMISSION acceptance of the Project, the ESS CONTRACTOR shall submit the As-Built System Detailed Design Document that includes all software and hardware changes made during the system development and testing phase.

4.5.2 AS-BUILT DRAWINGS

The ESS CONTRACTOR shall provide to the COMMISSION a complete set of new as-built drawings for the systems provided under this Contract, and which shall be delivered as four (4) full-size (22" x 34") and six (6) half-size (11" x 17") complete sets of prints, and shall deliver the same in electronic format, for all equipment furnished under this Contract. The sets shall include, but not be limited to, all schematics, logic diagrams, layouts, wiring diagrams, assembly drawings, installation diagrams, cable schedule, parts detail drawings for all mechanical parts designed or modified under this Contract and interface details so as to provide a complete record of the as-built status of the equipment.

All As-Built drawings shall contain a table of contents that shall include a listing of all drawings with headings for drawing number, drawing title, revisions number and date, and the type of material list, wiring diagram, wire list, specification control drawing, or similar categories

4.5.3 TRAINING PLAN

The ESS CONTRACTOR shall submit a Training Plan for acceptance by the COMMISSION no later than thirty (30) days prior to the start of any training classes. The Training Plan shall detail the following:

1. Overall description of the training program;
2. Proposed training delivery schedule;
3. Names and descriptions of each training class;
4. Purpose of each training class;
5. Who should attend each class;
6. Qualifications requirements for the trainer;
7. Minimum qualifications for personnel attending each class;
8. Duration of the class (hours/days);
9. Training materials, including manuals, guides and other supporting items, and techniques to be used;
10. Required equipment; and
11. Facility requirements.

The ESS CONTRACTOR shall assume that the COMMISSION staff does not have any specific knowledge of the technical requirements require for the upgrade of the Electronic Surveillance /

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Detection System (ESS); however the ESS CONTRACTOR can assume that staff are generally qualified for the function for which they are being trained in (e.g., a COMMISSION auditor has all required auditing training).

Courses shall be limited to a minimum of eight (8) hours per day.

4.5.4 TRAINING REQUIREMENTS

ESS CONTRACTOR shall provide the following training courses to the COMMISSION personnel. Training manuals (including ESS CONTRACTOR provided manuals or relevant portions thereof), guides, training aids, and student and instructor work books shall accompany the courses listed below.

1. **System Operation Overview:** To be attended by management personnel who require a general understanding of all aspects of the operation of the Electronic Surveillance / Detection System (ESS), including personnel from senior management, procurement, information technology and marketing and public information staff. Training includes an overview of all aspects of the system, system maintenance, network, and any other operational area of the Electronic Surveillance / Detection System (ESS).

Requirement: One session or course with a class size per session of up to ten (10) people and a minimum of seven (7) hours training per class.

2. **System Administration:** To be attended by all personnel who require a detailed understanding of the management, troubleshooting and administration of the software, database, applications, configurations and architecture of the Electronic Surveillance / Detection System (ESS), including the staff who will oversee the ESS CONTRACTOR in the monitoring and management of the Electronic Surveillance / Detection System (ESS).

Requirement: One session or course required with a class size of up to five (5) people and a minimum of seven (7) hours per training class.

The COMMISSION may require additional courses to be offered or additional personnel to be provided training. The ESS CONTRACTOR shall accommodate these requests to the extent possible with onsite personnel and documentation that is readily available.

4.5.5 TRAINING FACILITIES

Following the COMMISSION review of ESS CONTRACTOR'S Training Plan, the ESS CONTRACTOR will confirm that it has the requisite space to accommodate the level of effort and physical requirements for each training session.

4.5.6 SCHEDULING AND PREPARATION FOR TRAINING

It shall be the ESS CONTRACTOR'S responsibility to provide sufficient notice to the types of training it will provide and the timing for each training session. The COMMISSION will identify a list of participants that ESS CONTRACTOR shall notify to schedule their participation in the training. The ESS CONTRACTOR shall perform all scheduling activities and shall make every attempt necessary to accommodate the maximum number of persons for each training session. The ESS CONTRACTOR shall notify the COMMISSION of the dates or range of dates it would like to hold a training session at the COMMISSION offices and shall coordinate with the COMMISSION Information Technology (IT) office and Administrative staff to arrange the proper

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classroom setting and computer hardware and software are installed and the space configured for each training session.

At least once a year, the ESS CONTRACTOR shall provide one training session of for a minimum of eight (8) hours per training class for all ESS product enhancements.

4.5.7 TRAINING MATERIALS

Draft copies of all training materials shall be submitted to the COMMISSION for review, comment and approval, prior to final printing of quantities required for training. The COMMISSION shall have the right to require additional interim drafts at no additional cost should draft training materials submitted not be of adequate quality or have missing or incorrect information. For each course described in the section above, ESS CONTRACTOR shall provide the materials listed below.

4.5.8 INSTRUCTOR GUIDES

The ESS CONTRACTOR shall provide an instructor guide for each training course. The guide shall include:

1. Course agenda;
2. Course objective;
3. Procedures for managing training session;
4. Resource and facilities required, including work stations, power and communications requirements;
5. Detailed lesson plans;
6. A description of training aids and items to aid in on the job performance (e.g., where applicable, pocket guides or reference sheets);
7. Test to be administered to assure satisfactory completion; and
8. Instructions for using any audio-visual support equipment or materials.

4.5.9 TRAINING AIDS

The ESS CONTRACTOR shall provide training aids such as mock-ups, scale models, overhead transparencies, videotaped demonstrations, and simulations as are necessary to successfully complete the course agenda and meet the course objective.

4.5.10 TRAINING ROOM SET-UP AND SOFTWARE INSTALLATION

The ESS CONTRACTOR shall provide to the COMMISSION any special software that needs to be loaded on the classroom computers. All such software shall be provided to the COMMISSION no later than two (2) weeks prior to the training. It is the ESS CONTRACTOR'S responsibility to ensure that the software is operating as expected on each of the classroom computers. It is also the ESS CONTRACTOR'S responsibility to ensure that appropriate communications are in place.

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5 TESTING REQUIREMENTS (FAT, SAT, OAT)

The requirements described in this section detail the labor, materials, facility, and support services necessary to test the ESS upgrades, as identified in Section 2 of these Technical Requirements.

The ESS System hardware and software provided by the ESS CONTRACTOR under this Contract shall be tested and certified, by the ESS CONTRACTOR, to be interoperable with the entire COMMISSION'S ESS system. The ESS hardware and software provided by the ESS CONTRACTOR shall be tested and certified by the ESS CONTRACTOR, to be interoperable with all other agencies. The entire ESS System shall be tested prior to commissioning. The ESS CONTRACTOR is responsible for all test logistics (migration activities and minimizing impact to the facility) and coordination activities. The ESS CONTRACTOR is also responsible for providing the test facility that meets the requirements of the ESS System testing program.

The ESS CONTRACTOR shall be responsible for all aspects of the testing including the execution of each and every test event. The COMMISSION shall receive notification of a test event at least five (5) working days prior to a test event and shall be granted full access to the test event to observe and document the test event as it occurs. The COMMISSION and its representatives shall only witness and accept the test results. Acceptance of any aspect of testing shall not relieve the ESS CONTRACTOR'S responsibility to meet the full requirements of the Contract.

5.1 GENERAL TESTING REQUIREMENTS

The ESS CONTRACTOR shall provide to the COMMISSION, for review, comment, and final acceptance, a Master Test Plan that outlines the scope and testing concepts to be used to validate the ESS system. Test plans and test procedures shall ensure that each factory and field test is comprehensive and shall verify all the features of the equipment and software. Test plans and test procedures shall be modular to allow individual test segments to be repeated upon COMMISSION request. The ESS CONTRACTOR shall comply with COMMISSION requests for repeat testing. It is anticipated that the Factory Acceptance Test (FAT) and the Operational Acceptance Test (OAT) shall be conducted once each to test the full System functionality after each phase of the technology updates and where maintenance services require a replacement. The ESS system shall have a commissioning Bench Test simulator to perform operational testing as required. Upon the satisfactory completion of the Operational Test there shall be an Operational Acceptance Test. Depending on the Project Installation Schedule operational tests shall be performed as indicated in Section 5.5.

The testing by the ESS CONTRACTOR is expected to include, but not be limited to the following:

1. Access control system performance in relation to detection and reporting intrusion alarms, and detection of intrusion within facilities.
2. Intelligent video detection system performance in relation to incident identification and system-wide search capabilities.
3. System performance in relation to digital storage and recovery of video.
4. Quality of live and recorded video images to control center sites.
5. Visibility of on-screen displays of images, and overlaid status or alarms.

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6. Verification of change of alarm/incident status indications.
7. System well-being monitoring, malfunction alarms, and associated displays and alarms.
8. Verification of all reporting, video forensics and archival, and data collection functions.
9. Data format and handling.
10. Interface to the various other systems.
11. Testing of hardware due to maintenance services.
12. Factory Acceptance Test (FAT) of the ESS.
13. Site Acceptance Test (SAT) of the ESS Network stability
14. Operational Acceptance Test (OAT)

5.1.1 TEST PLAN

The ESS CONTRACTOR shall provide to the COMMISSION, for review, comment, and final acceptance, a Master Test Plan that outlines the scope and testing concepts to be used to validate the ESS System from initial development through installation and Project Acceptance. This Master Test Plan shall cover the factory, onsite, commissioning, operations, and acceptance testing. Once the Master Test Plan is accepted in writing by the COMMISSION, it shall then be used to compose the detailed test procedures and test scripts which shall be submitted to the COMMISSION for review and acceptance. It is essential that the ESS CONTRACTOR provide sufficient time for the submission and review cycle of the Master Test Plan and the detailed test procedures and test scripts.

After the completion of each test, the ESS CONTRACTOR shall submit to the COMMISSION for review and acceptance the Test Report that documents the results of the test. The Test Report shall include the results of the test, any anomalies identified, and the corrective action and any re-tests necessary to successfully complete each testing phase. The ESS CONTRACTOR shall be responsible for completing all corrective actions identified on a timely basis. The COMMISSION reserves the right to withhold acceptance of the test, pending completion of the required corrective actions.

The Master Test Plan shall include but not be limited to;

1. Testing philosophy and methodology
2. Description of all personnel test positions and responsibility
3. Organizational chart identifying position and personnel
4. Proposed schedule (in days) for testing up through commissioning test
5. Test site setup and test configuration
6. Notification procedure and key points of contact
7. Detailed synopsis of each testing event and validation of the results
8. Documentation and categorization of anomalies and tracking their resolution and closure

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9. Any special equipment, vehicles, or test devices required for test completion. Equipment should have a current certificate of certification.

5.1.2 TEST PROCEDURES

The ESS CONTRACTOR shall prepare and submit test procedures to the COMMISSION for review and acceptance in accordance with the accepted Integrated Project Schedule. The ESS CONTRACTOR shall accommodate for multiple iterations of submission and review cycle. The test procedures shall detail each test being conducted as depicted in Exhibit F Test Procedures Template. The test procedures shall be the official test document and it shall be followed explicitly, without change or altering the sequence. The ESS CONTRACTOR shall develop the test procedures for all of the tests described in the Master Test Plan.

At the completion of the Approved test procedures, the COMMISSION may request Ad Hoc testing to observe a particular event or action. The ESS CONTRACTOR shall assist with the Ad Hoc testing to the fullest extent. All test data, system generated and hand written, collected from the test event will become a part of the permanent record. The ESS CONTRACTOR shall analyze the test data and prepare a test report. The test report, along with all collected data shall be submitted to the COMMISSION for acceptance.

The ESS CONTRACTOR shall provide all personnel required to support the test, test equipment, testing materials, and any other such items required to execute, record and log the test event.

5.2 Factory Acceptance Test (FAT)

The Factory Acceptance Test (FAT) shall be conducted to verify that all functional elements of the ESS System and ESS components provided by the ESS CONTRACTOR under this Contract are in conformance with the COMMISSION'S technical and operational requirements specified in Technical Requirements, the Requirements Definitions Document, and the final System Design as accepted by the COMMISSION. The FAT shall be conducted for the new and existing ESS system hardware and software.

The FAT shall be conducted either at the ESS CONTRACTOR'S facility or at a facility designated by the COMMISSION in accordance with the accepted Master Test Plan and test procedures. The COMMISSION shall witness the FAT, and the ESS CONTRACTOR shall have the responsibility to perform the FAT. FAT shall provide sufficient confidence to the COMMISSION in its sole determination that the ESS CONTRACTOR'S System meets the COMMISSION operational requirements, standard and performance criteria and is ready to be installed on-site.

The ESS CONTRACTOR shall provide the required support personnel, test vehicles, test equipment and test environment, and testing shall be conducted in accordance with the Integrated Project Schedule and Approved test procedures. Upon completion of the FAT, the ESS CONTRACTOR shall submit a test report that details the results of the test. Upon the acceptance of the FAT by the COMMISSION, the ESS CONTRACTOR shall be given the authorization to move forward to the On-site First Installation Test.

5.2.1 HARDWARE TESTING

All hardware provided by the ESS CONTRACTOR under Section 2.0 shall be unit tested to ensure it complies with the requirements set forth in Section 2.0. The ESS CONTRACTOR shall verify that each component meets the Approved Design specifications. The ESS CONTRACTOR shall

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also provide certification that the hardware provided under this Contract meet the requirements for the environmental conditions identified in Section 2.0.

5.2.2 FUNCTIONALITY TESTING

As part of the FAT, the ESS CONTRACTOR shall demonstrate that the ESS system hardware and software provided by the ESS CONTRACTOR is in compliance with the requirements of Section 2.0 and its functionality complies with the operational requirements and the accepted Design documents. The ESS System shall be tested for functionality and the interface to various other devices and systems shall be fully validated.

5.3 SITE ACCEPTANCE TEST (SAT)

For each Phase, a Site Acceptance Test (SAT) shall be conducted on each systems/hardware to validate the functionality and operational status of the hardware and the applications installed. The installation of all equipment and software, and their operations shall be verified end to end.

Upon acceptance of the SAT for each system/hardware device by the COMMISSION, the system/hardware shall be considered in operation at a date determined by the COMMISSION.

5.4 OPERATIONAL ACCEPTANCE TEST (OAT)

The objective of the Operational Acceptance Test (OAT) is to ensure that the software and hardware provided under this Contract function over the Operational Test period for consecutive days with intended and required availability and performance, and the ESS System meets the requirements as defined in these Technical Requirements, the accepted Requirements Definitions Document, and the accepted Design documents.

Anomalies identified during the Operational Test period shall be categorized by criticality, and resolution of all anomalies shall be agreed to by the COMMISSION and the ESS CONTRACTOR. The ESS CONTRACTOR shall correct the anomalies and the COMMISSION shall verify the corrections. These tests shall be repeated until the Test has met the Contract requirements for thirty (30) consecutive days and the COMMISSION is satisfied that the Test meets all the requirements as defined in the these Technical Requirements, the accepted Design documents.

For each Phase, after the required systems/hardware are in production, at a mutually accepted date and in coordination with the ESS CONTRACTOR, the commissioned workstation shall be observed in live operations by the ESS CONTRACTOR and the COMMISSION for a minimum of thirty (30) consecutive days. During this period System accuracy, performance, reliability, and auditability shall be verified. The ability of the system/hardware to perform in conformance with the specifications of these Technical Requirements shall be validated. Upon the substantial completion of the Operational Acceptance Test as solely determined by the COMMISSION, the ESS CONTRACTOR will be given Provisional Acceptance for the Phase.

5.5 PROJECT ACCEPTANCE

Upon the successful completion of all system tests, closure of all punch-list items, completion, and submission of all required documents, and meeting of other conditions as specified in these

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6 DESCRIPTION OF MAINTENANCE AND SOFTWARE SUPPORT SERVICES

6.1 SCOPE OF WORK FOR MAINTENANCE SERVICES

During the Maintenance period, the ESS CONTRACTOR shall provide Maintenance services including, without limitation, all required personnel, tools and test equipment, spare parts and equipment, facilities and transportation necessary to address all requirements specified in the Contract Documents for the ESS System including, without limitation, the Maintenance services specified herein and therein. Maintenance support for the existing ESS system in its entirety, LAN communications system, and all existing and new hardware and software shall be provided by the ESS CONTRACTOR on a twenty-four (24) hours per day, seven (7) days per week basis. Maintenance repairs shall be accomplished in accordance with the Maintenance Response and Repair Schedule. This shall include, without limitation, both Preventive and Corrective Work, and special services as requested, of both hardware and software for the ESS System.

The COMMISSION has made every reasonable effort to identify all ESS equipment, and systems, and related components, as described in this document. The ESS CONTRACTOR shall provide the COMMISSION with improvements to services and Service Management capability by ensuring that the introductions, deployment, transfer and decommissioning of new or changed services into operation is consistently well managed.

The ESS CONTRACTOR shall be responsible for Maintenance, replacement, and support of all existing and new hardware and software during the three (3) year Maintenance period, and any option period thereafter. Maintenance services shall be performed and paid for on a monthly basis or in accordance with a schedule mutually agreed upon by the COMMISSION and ESS CONTRACTOR.

The ESS CONTRACTOR shall, at no additional cost to the COMMISSION, provide and equip all offices, buildings, trailers, shops and other working spaces required for the Maintenance of the ESS Project. COMMISSION facilities shall not be utilized for ESS CONTRACTOR Maintenance services unless otherwise agreed to, in writing, by the COMMISSION.

The ESS CONTRACTOR shall coordinate the transition with the current ESS CONTRACTOR for all maintenance services and transfer of knowledge prior to the end of current maintenance contract for the ESS System.

6.2 MAINTENANCE PLAN AND PROCEDURES MANUAL

The ESS CONTRACTOR shall prepare and submit a comprehensive Maintenance Plan and Procedures Manual for COMMISSION approval prior to the first scheduled Maintenance Work. This manual shall include, without limitation, descriptions of the ESS CONTRACTOR'S Maintenance management system, internal controls, safety practices, and detailed procedures for all anticipated Preventive and Corrective Work. Estimated task durations should be included for each Maintenance activity contained in the manual. Once approved, the Maintenance Plan and Procedures Manual shall be used by both the COMMISSION and the ESS CONTRACTOR to guide the management of all Maintenance Work. The Maintenance Plan and Procedures Manual shall be a living controlled document, updated and changed by the ESS CONTRACTOR when changes occur or if deemed necessary by the COMMISSION, to meet unanticipated needs

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as they arise. The services will include, without limitation, all aspects of the ESS and may require the ESS CONTRACTOR to interact with other system or service providers.

6.3 NOTIFICATIONS

The ESS CONTRACTOR shall provide the COMMISSION a written summary of all planned preventive Maintenance activity to be undertaken each week by the preceding week. This notification shall include, without limitation, a description of the type, locations, and approximate times of each planned Maintenance activity for the upcoming week. All preventive Maintenance activity shall be scheduled not to interfere with either the control center activity or traffic operations at the facilities. Should the ESS CONTRACTOR have to modify the schedule of any such preventive Maintenance activity, they shall notify the COMMISSION of their anticipated revised schedule for approval.

The ESS CONTRACTOR shall notify the COMMISSION designee, as specified by the COMMISSION, in writing of all Preventive or Corrective Work planned. The ESS CONTRACTOR must also notify the COMMISSION immediately prior to and after completion of Maintenance activities. Regular updates as to the progress and status of the Maintenance activity will be provided. The ESS CONTRACTOR shall also notify the COMMISSION immediately of all failures that could impact either control center operations or traffic at the facilities. In addition, the ESS CONTRACTOR shall notify the COMMISSION at least one (1) week in advance of any hardware or software modifications or upgrades. The ESS CONTRACTOR shall submit to the COMMISSION a plan summarizing the change, operational impacts, verification, and testing procedures.

Traffic closure requests must be submitted by Thursday, 12:00PM (Noon) of the week prior to the closure for all planned installation, maintenance, and corrective action work, in addition to the notices under Section 6.25.

6.4 RECORDS

The ESS CONTRACTOR shall provide monthly activity reports on the status of ESS operations that are designed to detect significant patterns and trends. The ESS CONTRACTOR shall alert the COMMISSION regarding problems and changes as they arise, including, without limitation, procedural changes, key personnel moves, and significant system downtime. The timing of these alerts shall be such as to permit timely resolution of problems. Failures of equipment or software anywhere in the ESS shall be reported and addressed according to the requirements of the Contract Documents.

Using the COMMISSION'S Asset Management software package, or other software packages approved by the COMMISSION, the ESS CONTRACTOR shall create a database of all ESS equipment and software. The database will include, without limitation, equipment model numbers, serial numbers, and part numbers for all equipment inventory and spare parts used in the Project. This database will be utilized to track preventive Maintenance, equipment failures, Hotline log and Corrective Work with dates, descriptions of procedures and equipment used from inventory. The ESS CONTRACTOR shall be responsible for updating the database upon completion of any and all Maintenance, Repair, and Replacement activities. This database will be made available to the COMMISSION.

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The database compiled for monthly and annual periods, shall be used to document the performance of the ESS and track Maintenance activities for payment purposes to both the ESS CONTRACTOR and the COMMISSION

6.5 MAINTENANCE PERSONNEL AND ACCESS SECURITY

The ESS CONTRACTOR shall develop, document, and implement standards and procedures for the administration of user identifications and passwords, confidentiality of information, reporting of security violations, and procedures for remote access controls. The ESS CONTRACTOR shall submit all system and user documentation, as well as user manuals for processing procedures and end user functions, and monthly reports to the COMMISSION for approval. Special procedures shall include, without limitation:

1. Procedures to immediately inform and report to the COMMISSION the nature and significance of any breach in security, including, without limitation, how it occurred, the information compromised, the remedy taken, and preventive steps to avoid any recurrence.
2. All ESS CONTRACTOR personnel, including, without limitation, subcontractor / subconsultant personnel, shall wear personal identification badges as specified in the Supplementary Conditions while on the COMMISSION's property.
3. The ESS CONTRACTOR shall provide the COMMISSION with a letter confirming the moral turpitude of all personnel employed by the ESS CONTRACTOR, subcontractor / subconsultant.
4. The ESS CONTRACTOR shall be solely responsible for ensuring that these security measures are in place.
5. The ESS CONTRACTOR shall provide the COMMISSION with a monthly report of all security violations detected by the system.
6. The ESS CONTRACTOR shall provide the COMMISSION training (at least one (8) eight hour day) on an annual basis for all product enhancements.

6.6 WARRANTIES AND GUARANTEES

The ESS CONTRACTOR will provide to the COMMISSION all equipment and services guarantees and warranties. The ESS CONTRACTOR will provide to the COMMISSION the manufacturer's standard warranty and a guarantee or a warranty for two (2) years from the termination of the manufacturer's standard warranty for all goods and services supplied, including systems and equipment.

The warranty period for spare parts shall extend two (2) years from the placement of each spare part into regular service. In the event that it is necessary to place any spare part into operation or service prior to the completion of the warranty period, the ESS CONTRACTOR covenants and agrees to furnish and deliver, free to the COMMISSION a replacement part.

The ESS CONTRACTOR shall warrant that all goods and services supplied, systems, equipment, designs and Work shall be satisfactory for its intended purpose, shall conform to and perform as called for in the Contract and shall be free from all defects and faulty materials and workmanship. Any services supplied, systems, equipment, designs, or Work found to be defective within the

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time specified below shall be repaired, remedied, or replaced, (hereinafter called "Corrective Work"), by the ESS CONTRACTOR, free of all charges including, without limitation, transportation and MPT. All hardware, software, and equipment supplied under the Contract that is rendered Defective while under warranty will be the ESS CONTRACTOR'S sole responsibility to replace.

The rights and remedies of the COMMISSION under this Contract, Maintenance Services are not intended to be exclusive and shall not preclude the exercise of any other rights or remedies provided for in the Contract, any subsequent contract, or by law or otherwise.

In the event that the ESS CONTRACTOR borrows facility keys in order to gain access to a work site, and the facilities keys are not returned prior to the ESS CONTRACTOR'S departure, the ESS Manager may recall the service personnel immediately to the facility. If keys are lost or damaged, the ESS CONTRACTOR is responsible for all costs associated with providing and installing new cores and/or locks as per facility standards.

6.7 PREVENTIVE MAINTENANCE

Within the Maintenance Plan and Procedures Manual, the ESS CONTRACTOR shall describe procedures and activities to be performed as part of the preventive Maintenance program, including, without limitation, the frequency of each activity. The ESS CONTRACTOR shall provide the Minimum frequency levels provided for each item or recommend a maintenance interval that shall be approved by the COMMISSIONS that meets or exceeds the interval provided. Corrective maintenance will take precedence over preventive maintenance. The Maintenance Plan and Procedures Manual will include, without limitation, all procedures recommended by the equipment manufacturers and the following additional tasks:

1. Inspection and Maintenance of all field equipment, racks, enclosures, cabinets and conduits including, and without limitation:
2. Inspection and yearly replacement or manufacturers recommended replacement of all filters.
3. Verify proper operation and testing of temperature monitoring switches on a monthly basis.
4. Verify proper operation, accuracy of gauges for heaters and fans, i.e. Propane Tanks on a monthly basis.
5. Remediate any insect or rodent infestation within the ESS infrastructure shall be performed as required and on a bi-annual basis.
6. Cleaning and moisture treatment of camera housings, lenses, and domes shall be performed on a quarterly basis. In addition, the ESS CONTRACTOR shall provide unit pricing for additional camera cleaning as needed and determined by the COMMISSION.
7. Check that all video recorders and/or servers are online and functioning properly shall be performed on a daily basis.
8. Ensure that all data is stored on all video recorders and all ESS servers (with adequate disk free space maintained according to the COMMISSION'S Information Technology department's standards.

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9. Backup all critical data on a daily, weekly, and monthly basis according to the standards and guidelines provided by the COMMISSION'S Information Technology department.
10. Perform semi-annual system and database restore tests on the bench system to ensure that all data and systems can be restored successfully.
11. Inspection and cleaning of control center and local bridge equipment (including, but not limited to, keyboards, mouse, monitors, joysticks, KVM switches, enclosures, and racks) shall be performed as needed and on an annual basis.
12. Inspection of LAN transmission equipment and perform manufacturers diagnostic tests, replace any loose or damaged cable markers shall be performed on a monthly basis.
13. Inspection and performing manufacturer's diagnostic tests of the Access Control System, which includes, without limitation, the periodic cleaning of intrusion detection devices, card readers, controllers, tamper switches, input and output modules, electronic locks, sensors, memory, horn and strobes, request to exit, badge capture cameras, badge printers. Testing of ALL access control devices must be verified with the COMMISSION'S Primary Control Center (PCC) on a monthly basis
14. Re-lamping, adjusting, cleaning, and replacing of lighting fixtures used to illuminate ESS components on a bi-annual basis or as needed.
15. Inspection, service, maintenance, and repair to infrared lighting for cameras on a bi-annual basis or as needed basis.
16. Inspection, cleaning and to rectify camera focus and aiming according to required field of view shall be performed when the field of view has changed and on a monthly scheduled basis and the field of view shall be verified to be accurate.
17. Perform monthly inspection and preventive maintenance of generators, power supplies, battery, and backups along with monthly start-ups and fluid checks as recommended by the manufacturer or on a semi-annual basis.
18. On a monthly basis, inspection, service, maintenance, and repair hardware for servers and workstations including, without limitation, performing manufacturer's recommended maintenance procedures and diagnostic tests including cleaning of fan cage, enclosure, cabinet, and rack to be free of dust accumulation. Check available disk space and verify low disk notification alarms, inspect event logs for abnormal entries that warrant further investigation. Submit a report detailing disk space availability and usage, any recommendations to enhance performance and any items that require further investigation.
19. Observation of the system during night time operations shall be performed on a monthly basis followed by a monthly report with any findings and recommendations.

6.8 SPARE PARTS AND EQUIPMENT ASSEMBLIES

The ESS CONTRACTOR shall establish a program for managing spare parts and equipment in a secure manner that includes record keeping of inventories, determination of reorder points, maintaining supplier information, and conducting parts acquisition and distribution. THE ESS CONTRACTOR shall provide all necessary spare parts, equipment assemblies, and tools

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required to fully maintain and operate the ESS System. A complete parts/assemblies list shall also be provided which clearly identifies all components of the ESS, the ESS CONTRACTOR name and contact information (telephone number, mailing address, and internet address), part/version number, anticipated reliability, refurbishment and replacement requirements, and the quantity of spares for each component necessary to ensure sustained operation of the ESS. This list shall be updated on a monthly basis and submitted to the COMMISSION.

The ESS CONTRACTOR shall determine the number of spares for each component and complete assemblies required to sustain day-to-day operation and Maintenance of the ESS for the initial three (3) year Maintenance period, and any Maintenance period subsequently assigned. The proposed list shall include, without limitation, high-level assemblies, and their associated component parts. Examples of equipment assemblies include, but are not limited to, cameras, encoders, control center monitors, keyboards, mouse, KVM switch, servers, switches, and routers. Examples of component parts include, but are not limited to, hard disk drives, video cards, power supplies, and filters. Where possible, spares shall be available from a third party provider other than the ESS CONTRACTOR. Spares that are proprietary products shall be clearly delineated and available (or approved equivalent) for the COMMISSION purchase for ten (10) years from the start of contract.

The ESS CONTRACTOR'S proposed spare parts list is subject to approval / modification based on the COMMISSION'S determination of the required inventory levels. It is the sole responsibility of the ESS CONTRACTOR to store adequate spare parts to properly maintain the ESS system in a timely manner to meet the response times per the Maintenance Response and Repair section of this document. All spare parts are to be stored at a secure facility owned or leased by the ESS CONTRACTOR. Spare parts are not to be stored at the COMMISSION'S property.

In addition, the COMMISSION has existing spare parts. These existing spare parts shall be stored in a secure facility owned or leased by the ESS CONTRACTOR. These spare parts are to be used by the ESS CONTRACTOR at the sole discretion and direction of the COMMISSION. These existing spare parts are separate from the spare parts required by the ESS CONTRACTOR for Maintenance.

6.9 BENCH TEST SIMULATOR

A Bench Test Simulator shall be provided and installed by the ESS CONTRACTOR as part of the ESS. The Bench Test Simulator is anticipated to be utilized to support Maintenance functions such as troubleshooting and other system diagnostic activities, as well as training for COMMISSION Maintenance staff and other personnel.

The Bench Test Simulator shall be delivered as a fully assembled unit, with all equipment necessary to operate the ESS, including, but not limited to, component equipment, parts, and software applications required to simulate an electronic surveillance/detection system. The Bench Test Simulator parts will be separate from the spare parts and equipment assemblies to be used for ESS Maintenance. Any additional equipment or material necessary to support the Bench Test Simulator shall be identified and described in detail.

6.10 CORRECTIVE WORK

The ESS CONTRACTOR shall provide a specified telephone number, toll-free or another COMMISSION approved method at no additional cost to the COMMISSION for the purpose of

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call-in service and help desk support that will be staffed twenty-four (24) hours a day, seven (7) days a week for coverage. The ESS CONTRACTOR shall send Trained Personnel fully familiar with the ESS System and its maintenance requirements, to the premises in response to telephone notification of an ESS System malfunction, and said personnel shall arrive at the premises and report to the Facility Manager and/or Contract Manager within the response period stipulated in the section 6.17 entitled "Maintenance Response and Repair". The ESS CONTRACTOR shall restore the malfunctioning equipment to a fully operational condition or state. Liquidated damages will be assessed for failure to meet designated repair time requirements as specified in Section 6.17.

Except as specified below, the COMMISSION will notify the ESS CONTRACTOR via telephone or written notice of observed defects or failures with reasonable promptness via ESS CONTRACTOR support line, email or a secondary means if the COMMISSION decides to do so. Unless otherwise directed in said notice, the ESS CONTRACTOR shall commence Corrective Work at the time specified by the COMMISSION and in the designated order of priority set forth by the COMMISSION. The COMMISSION shall have the right, when practical and feasible in its opinion, to the continued use of any such goods supplied, systems, equipment, and Work deemed defective or unsatisfactory, until such can be taken out of service for performance of Corrective Work by the ESS CONTRACTOR.

Nothing herein shall be construed as preventing COMMISSION personnel from immediately commencing any Corrective Work, with labor cost at the expense of the COMMISSION, provided all such Corrective Work is performed in accordance with the Maintenance Plan and Procedures Manual furnished by the ESS CONTRACTOR. The ESS CONTRACTOR shall reimburse the COMMISSION or replace (at the option of the COMMISSION) any spare parts or materials required by COMMISSION to perform any Corrective Work with which it must proceed. Such Corrective Work by COMMISSION shall not be construed to invalidate the warranty provided by the ESS CONTRACTOR and other provision herein contained in this Section.

The ESS CONTRACTOR may utilize spare parts from the spare parts inventory for Corrective Work, provided the ESS CONTRACTOR agrees to replace, at no cost to the COMMISSION, each and every spare part so used under terms and within the time period to be prescribed by COMMISSION. The warranty provisions described above shall be applicable to each spare part so used. Each spare part used shall be noted on the Monthly Spare Part Inventory that shall be submitted to the COMMISSION.

Replacement parts and repairs provided, pursuant to Corrective Work hereunder, shall be subject to prior approval by the COMMISSION and shall be tendered and performed in the same manner and extent as items originally delivered in accordance with Section 6.1 of this Contract Document, Maintenance Services.

See Section 6.26 "Maintenance of Traffic" for all Corrective Work that will affect the flow of traffic.

6.11 HARDWARE MAINTENANCE AND SUPPORT

The ESS CONTRACTOR shall be responsible for all aspects of system hardware maintenance and support during the warranty and maintenance periods. This Work shall include, without limitation, support for all hardware and systems currently in place and those provided by or through the ESS CONTRACTOR, including, but not limited to cameras, camera power supply, KVM

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switches, video encoders, fiber optic and Ethernet patch panels, UPS, generators, monitors, switches, routers, antenna, workstations, servers, storage arrays, and all door components (including door locks, closers, push bars, handicap button, etc.) for doors connected to the ESS system. The ESS CONTRACTOR shall also be responsible for replacement equipment and installation at no additional charge to the COMMISSION. In cases where the manufacturer, supplier, or the COMMISSION discovers a Defective product or component design, the ESS CONTRACTOR shall have sole responsibility for new replacements at no cost to the COMMISSION.

The COMMISSION shall have the option of purchasing directly from the appropriate Original Equipment Manufacturer(s) (OEMs) of computers and associated peripheral equipment on-call Maintenance services in accordance with the various levels of service offered by such OEMs. Prior to the expiration of the warranty, the ESS CONTRACTOR shall have the equipment certified as being acceptable by the OEMs for the OEMs contract Maintenance services, and shall request the OEMs to provide written quotation(s) to the COMMISSION for the provision of such services. An undertaking to perform this action shall be provided to the COMMISSION no later than thirty (30) days prior to the expiration of the equipment warranty.

6.12 SOFTWARE MAINTENANCE AND SYSTEM ADMINISTRATION

The ESS CONTRACTOR shall be responsible for all aspects of system software Maintenance and system/database administration during the warranty and Maintenance periods, at no additional cost to the COMMISSION. This Work shall include, without limitation, monitoring and tuning of all operating systems, network software, databases, and support of all other ESS software components. The ESS CONTRACTOR shall also be responsible for installation of third party software patches and revisions at no additional charge to the COMMISSION, and to ensure that all patches and revisions have been certified by the manufacturer. In cases where the manufacturer, supplier, or the COMMISSION discovers a Defective product or component design, the ESS CONTRACTOR shall have sole responsibility for new replacements at no cost to the COMMISSION.

The above hardware and software costs, notification, implementation, testing, etc. shall be by the ESS CONTRACTOR as part of the ESS Maintenance. No additional costs shall be paid for by the COMMISSION.

6.13 SOFTWARE CHANGE NOTIFICATION SERVICE

The COMMISSION shall be informed whenever alterations, modifications, enhancements, and updates for all software used by the ESS occur. The COMMISSION shall be placed on the ESS CONTRACTOR'S mailing list to receive announcements of the discovery, documentation and solution of software problems, as well as other improvements, updates, new software releases and other improvements/enhancements that could be made to the system provided to the COMMISSION. The ESS CONTRACTOR shall also provide the COMMISSION with an analysis of the potential effects of such alterations, modifications, and updates/enhancements on the system. This analysis shall include, at a minimum, the following:

1. Compatibility of the application software with the new system or third-party software. Potential increases or decreases in system performance.
2. The availability of product support for the current (older) version of the operating system or third party software.

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3. The testing required to ensure that the hardware/software support change would be perform as expected.

The COMMISSION shall have final say whether or not to proceed. If the COMMISSION selects the upgrade, the ESS CONTRACTOR shall perform the recommended testing, prepare the test report, and perform the upgrade. If the COMMISSION allows for updates or modifications to the system, the ESS CONTRACTOR is still responsible to ensure operational availability of the system. This service shall commence at the time of Notice to Proceed (NTP), and shall continue for the three (3) years of the initial Maintenance period and any subsequent assigned Maintenance period. In addition, the COMMISSION shall be placed, at no charge to the COMMISSION, on any appropriate subscription lists for software change notification services though the Maintenance period. Failure to notify the COMMISSION shall result in penalties deemed necessary by the COMMISSION.

The above hardware and software costs, notification, implementation, testing, etc. shall be by the ESS CONTRACTOR as part of the ESS Maintenance. No additional costs shall be paid for by the COMMISSION.

6.14 SOFTWARE UPDATES

The ESS CONTRACTOR shall maintain current system software: Supervise the installation of system updates and/or patches on all computers (servers), other associated computer systems, and workstations ensuring software is maintained, at a release level supported by the ESS CONTRACTOR and as appropriate within two release levels of the most current release.

The ESS CONTRACTOR shall maintain current application software: Supervise the installation of application software updates and/or patches on all computer systems (servers), workstations, and personal computer clients, including packaged software products, as well as new releases of custom software as directed by the ESS Manager. The COMMISSION shall have the final say whether or not to proceed with any updates or patches. If the COMMISSION allows for updates or modifications to the system, the ESS CONTRACTOR is still responsible to ensure operational availability of the system.

6.15 SOFTWARE LICENSES

For the routine use of software, the ESS CONTRACTOR shall issue to the COMMISSION a non-exclusive license, in the COMMISSION'S NAME, to use the supplied software and training materials on a restricted rights basis. It is understood that this software license shall apply to executable code only, and that the source code for software shall not be provided.

6.16 LOCAL AND WIDE AREA NETWORK MAINTENANCE AND SUPPORT

The ESS CONTRACTOR shall be responsible for repair and replacement of all LAN components for the ESS system, including, without limitation, communication, and coordination of repairs for the WAN which is managed by the COMMISSION.

The ESS CONTRACTOR shall provide the necessary support or assistance to third party services and to COMMISSION network infrastructure services or personnel in order to maintain the network portion of the system that is directly related to the ESS system and its related components. Network Administration Services shall provide the following, but not limited to, services:

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1. Isolate and troubleshoot network related ESS problems, perform daily health checks, performance checks, network monitoring, hardware and software changes, manage configuration changes, troubleshooting, maintain documentation, maintain logs, and generate reports.
2. Services shall include working with third parties to resolve problems associated with the system with infrastructure networks (e.g. local-area network, wide-area network, virtual networks, and intranet system) and telecommunication providers (e.g. leased lines, wireless networks, modems, phone lines, etc.).
3. Services shall include coordination, implementation, and maintain network security measures as per security best practices and/or per the COMMISSION security standards.

6.17 MAINTENANCE RESPONSE AND REPAIR

The ESS CONTRACTOR shall provide, within the Maintenance Plan and Procedures Manual, a schedule for Corrective Work response and repair, meeting, or exceeding the repair time requirements for (1) Hardware/Software Emergency Failure, (2) Hardware/Software Critical Failure, (3) Semi-Critical Failure, and (4) Non-Critical Failure, as defined in this Section. The ESS CONTRACTOR shall also supply a complete list of anticipated failures and their associated priority in the Maintenance Plan and Procedures Manual, subject to approval of and modification by the COMMISSION. Requests for service will be initiated from designated COMMISSION personnel to the ESS CONTRACTOR. All hardware, software and system/subsystem failures will be placed into the following four (4) categories, as determined by the COMMISSION'S Director of ESS. The classification of the hardware, software, and/or system/subsystem failure by the COMMISSION'S Director of ESS shall govern repair time requirements, as summarized in the Repair Time Requirements and Liquidated Damages Schedule below:

1. Hardware/Software Emergency Failure is defined as any essential equipment, hardware, or software failure that renders the ESS or any subsystem ineffective. This category primarily concerns without limitations, the failure of the Primary Control Center, Secondary Control Center, and/or essential components thereof, multiple video and/or access control device failures that threaten the security of the COMMISSION and/or substantially inhibits the daily business operations of the COMMISSION.
2. Hardware/Software Critical Failure is defined as any equipment, hardware, or software failure that renders the ESS or any subsystem ineffective. If the failure affects multiple devices, this also will constitute a Hardware/Software Critical Failure. Examples include, without limitation: malfunctioning LAN, Access Control System, and damage to ESS infrastructure.
3. Semi-Critical Failure is defined as a failure of any equipment, hardware or software that renders a limited portion of the ESS or any subsystem ineffective.
4. Non-Critical Failure is defined as any individual equipment, hardware, or software failure that does not affect the overall operation of the ESS. Examples include, without limitation: malfunctioning camera, access control door, sensor, or Control Center monitor.

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5. Repair time shall be measured from the time the ESS CONTRACTOR'S representative receives notification that a failure exists until the time Corrective Work is complete in a manner satisfactory to the COMMISSION and the equipment is returned to normal service. Failure of the ESS CONTRACTOR to provide the requested service in accordance with the Repair Time Requirements and Liquidated Damages Schedule will result in liquidated damages.

Repair Time Requirements and Liquidated Damages Schedule		
Category	Repair Time	Damages/Hour
PCC/Hardware/Software Emergency Failure	8 hours	\$125.00
Hardware/Software Critical Failure	24 hours	\$100.00
Hardware/Software Critical Failure Requiring Traffic Restrictions	72 hours	\$100.00
Semi-Critical Failure	48 hours	\$100.00
Non-Critical Failure	72 hours	\$25.00
Non-Critical Failure Requiring Traffic Restrictions	120 hours	\$25.00

Repair time requirements are in effect twenty-four (24) hours per day, seven (7) days per week, including holidays, for the entire warranty and Maintenance period including any extensions authorized by the COMMISSION. The ESS CONTRACTOR must be prepared to investigate and address issue(s) as they occur, even if the issue(s) occurs outside of normal business hours. It is the responsibility of the ESS CONTRACTOR to ensure that COMMISSION personnel verify response and repair times.

The ESS CONTRACTOR shall provide for MPT and other equipment and services as required to complete the repairs, including coordination with COMMISSION.

A Chronic ESS Equipment Failure shall be defined as a component with four (4) subsequent failures within a thirty (30)-day period retroactive from the date recorded for the second failure. The determination schedule is as follows:

Thirty (30) Period				
Failure	1st	2nd	3rd	4th or more
Designated			CHRONIC	CHRONIC
Schedule	Normal Repair	Normal Repair	Normal Repair	Immediate Repair Required

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Liquidated Damages (LD)	Normal Schedule	Normal Schedule	Automatic	Automatic
Action			RETROACTIVE LD FROM DATE OF 2 nd FAILURE IF NOT REPAIRED ON TIME	RETROACTIVE LD FROM DATE OF 2 nd FAILURE IF NOT REPAIRED ON TIME

6.18 CHANGE CONTROL

Change control refers to a formal process whereby changes are carefully proposed, assessed, reviewed, and applied. Change control provides stability and safety to ensure the system continues to operate properly. The ESS CONTRACTOR shall manage the change control process.

1. All changes to the system shall be responsibility of the ESS CONTRACTOR.
2. ESS CONTRACTOR shall review the change management procedures established for each system and recommend changes as necessary to ensure that all system changes are properly executed. ESS CONTRACTOR shall ensure that said change management procedures are properly followed by all ESS CONTRACTORS. Procedures shall include, but not limited to, change request forms and documenting the action(s) taken to complete the change request.
3. Prior to the change, a plan shall be submitted to the ESS Manager for approval, rejected, or deferred. Approval of plan does not alleviate the ESS CONTRACTOR'S responsibility to the successful implementation of the plan.
4. A plan shall describe, but not be limited to, description of change, revision(s), impact assessment, installation procedure, test plan, downtime, data backup and recovery procedures, and training.

Change control shall provide the following, but not be limited to:

1. Provide a method for accepting changes to the system and rejecting changes that might degrade the system.
2. Provide revision control and recovery plans for the system.
3. Allow all parties affected by the proposed change to assess resources, schedule, and quality and impact in a controlled manner.
4. Provide an historic trail of the system.
5. Proposal of changes shall occur whenever the ESS CONTRACTOR and/or ESS Manager determine that some aspect of the system should be changed. The ESS CONTRACTOR shall submit a change proposal to the ESS Manager. The proposal of changes shall identify the work in question, description of the change, dependencies, description of the impact, schedule, parties affected, description of leaving the system as-is compared with the suggested change and recommendation.

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6. Assessing impact of change shall be the responsibility of the ESS CONTRACTOR. The ESS CONTRACTOR shall be responsible for evaluating the effects of implementing the proposed change and recommendation. The evaluation shall include, schedule, notify affected parties, impact on documentation, impact on the system, impact on hardware and software, dependencies, description of installation programs and procedures, test plan, training, impact of future costs from the change.

6.19 COMPUTERIZED CHANGE CONTROL SYSTEM

A computerized change control system shall be provided, managed, and maintained by the ESS CONTRACTOR. The control system shall follow a formal change control process and be capable of generating reports. The change control system will be used to gather and manage change control information relating to requests to change the system. The change control system will provide a central database, which contains information as described in the above sections. The change control system shall track and maintain an historical record of proposed, accepts, rejected or deferred changes. Regardless of whether a change is approved, rejected, or deferred, at minimum, the change control system shall record the information as stated in the Change Control section.

A. Hardware Configuration Changes:

The scope of the change management portion of the System Administration Services furnished shall include, but not be limited to:

1. Ensure that new hardware is thoroughly tested before installing into the production environment. A test plan shall be established.
2. Managing hardware changes: Make provisions for the orderly implementation of hardware changes and updates minimizing the disruption of system services or users. Oversee and control changes to the hardware configuration and be responsible for the area where the work is being performed during installation.
3. Testing new hardware and associated software: Ensure that all configuration changes are tested within a test environment prior to use in the production environment. Where possible and appropriate, arrange for factory testing prior to acceptance.
4. Informing management of new hardware options: Maintain contact with ESS CONTRACTOR(s) to stay aware of all hardware updates, maintenance fixes, etc., which are available for the system.
5. Documenting the hardware configuration: Ensure that all documentation is received for new hardware and that configuration changes are properly documented and filed in the documentation library.

B. Software Configuration Changes:

Ensure that new software is thoroughly tested before installing into the production environment. A test plan shall be established.

1. Verification and control of software:

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2. Verify that no unauthorized software has been introduced onto the system.
3. Check for and remove viruses, games, personal software, etc.
4. Check versions of authorized software
5. Verify that no unauthorized changes have been made.
6. Research automated tools for change control and recommends their use where appropriate.
7. Informing management of new software options: Maintain contact with ESS CONTRACTOR(s) to stay aware of software updates and fixes.
8. Maintain a segregated test environment insulated from the production environment for testing of changes to software prior to introduction to the production environment.
9. Controlling software migrations: Establish and enforce procedures to ensure only approved changes are implemented by ensuring that:
 - a. Modification request forms have been established for all changes to be made software. Multiple changes to the same module are coordinated.
 - b. There is synchronization of changes so that all modules affected by a modification to a data element or other factors are changed simultaneously.
 - c. Migration of Modules is controlled through the test and implementation cycle.
 - d. New application and system software versions are thoroughly documented.
 - e. Changes to application software are deposited in escrow by the software ESS CONTRACTOR.
 - f. Maintaining prior versions of software:
 - i. Exercise control over software versions,
 - ii. Ensuring the proper version of software is migrated and that prior versions are available for roll back in the event of an emergency.
 - g. Testing new software:
 - i. Maintain a set of test transactions and known results to verify the integrity of the system along with new software releases.
 - ii. Update the test transactions to include test data for all new conditions arising out of maintenance or enhancement of the system.

6.20 CAPACITY MANAGEMENT AND PERFORMANCE MONITORING

The ESS CONTRACTOR shall monitor the system and network performance to ensure that performance and response meet the operational needs of the users and ensure the continued effective operations of the system through the accepted industry capacity management and performance monitoring procedures and recommend corrective actions to correct capacity or performance inadequacies.

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1. Capacity Management

- a. Maintaining records: Maintain records on system performance and resource usage, message queuing, user response time, etc. adequate to project needed updates to hardware and software based on current performance and expected growth.
- b. Forecasting upgrade needs: Maintain communication with the ESS Manager and with users in regards to plans for system expansion or modification that will affect system capacity or performance.
- c. Tracking resource usage: Track such items as database/file sizes, disk space, and network performance to ensure adequate resources will be available for the foreseeable future.
- d. Maintaining proper allocation of resources: Alter file distribution on direct access.
- e. Storage devices and reconfigure workstations and networks as needed to maintain adequate system performance.
- f. Troubleshooting: Investigate and diagnose system problems that result in unsatisfactory system performance and take steps to remedy the problem.
- g. Maintaining data structures: De-fragment files and purge/reorganize databases on a scheduled and as needed basis.
- h. Maintaining ESS System backups

2. Performance Monitoring: The operational availability of the ESS shall meet or exceed the percentages stipulated below for each calendar month per site:

- a. The uptime percentage for each item below is 99.5%.
- b. Uptime availability of the computer systems (Primary and Secondary Servers)
- c. Uptime availability of the operating system software (e.g. Microsoft Windows server/workstation)
- d. Uptime availability of the database management software (e.g. Microsoft SQL Server)
- e. Uptime availability of the security software
- f. Uptime availability of video recorder system
- g. Uptime availability of replication system
- h. Uptime availability of security subsystems (e.g. ACP cabinets)
- i. Uptime availability of operator workstations
- j. Uptime availability of door security components (e.g. security card readers, strike locks and magnetic locks)
- k. Uptime availability of CCTV cameras
- l. Uptime availability of motion detectors and sensors

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m. Uptime availability of alarm monitoring and badge workstations

3. Performance Measure:

The ESS CONTRACTOR shall calculate the uptime based on the number hours per calendar month for each item listed per site with the below formula and submit a report with supporting documentation to the ESS Manager. The performance measures shall be in the form of online reports and hardcopy. A record shall be kept of the reports. The reports shall begin (30) thirty days after contract award, delivered monthly or as deemed necessary by the ESS Manager. Performance measures shall be subject to review by the ESS Manager.

$$\text{Uptime} = 100 - ((\text{Total downtime hours of equipment} / \text{Total hours in month}) \text{ times } 100)$$

The "Operational Availability" means the time during any twenty-four (24) hour period per calendar month per site for the ESS and its components are "Available" to the operators. "Available" means that during any twenty-four hour period, the items listed perform according to manufactures specifications as designed.

6.21 OTHER ON-CALL SERVICES

The ESS CONTRACTOR may, from time-to-time, be requested to provide other Maintenance services not covered by the Contract. This may include, without limitation, camera repair services, on-call technician and engineering support, and on-call software engineering support. The selected ESS CONTRACTOR will be required to provide a rate schedule for other on-call services as part of negotiations.

The ESS CONTRACTOR will be reimbursed for costs associated with the repair and replacement of equipment due to damage caused by vandalism, flooding, and other damage caused by third parties. Costs will be based on the detailed unit pricing and hourly labor rates provided by the ESS CONTRACTOR and agreed upon by the COMMISSION during negotiations.

6.22 DOCUMENTATION LIBRARY

The ESS CONTRACTOR shall establish and maintain a documentation library in an environmentally controlled area containing all documentation for hardware and software developed during the project and ongoing maintenance, hardware inventory and configuration of operating and administrative procedures. Ensure that all documentation needed for the continued operation and management of the system is accurate and available.

The system documentation responsibilities of the Maintenance Services to be furnished by the ESS CONTRACTOR shall include, but not be limited to:

1. Establishing a documentation library: Where one does not already exist, establish, and maintain a documentation library containing all documentation material for hardware and software, standards manuals and procedure manuals and act as the COMMISSIONS agent in obtaining any needed documentation not in the COMMISSIONS possession. All materials in or obtained for the documentation library shall be or become the property of the COMMISSION. Where a documentation library does exist, the ESS CONTRACTOR shall ensure that it meets COMMISSION standards.

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2. Controlling documentation: Control access to documentation materials, signing out manuals to authorized individuals when appropriate and tracking location of signed out materials.
3. Maintain documentation for the operating system including the suppliers' reference manuals, information regarding updates and fixes applied and currently available updates not yet applied.
4. Maintaining hardware, wiring, and schematic documentation library: Maintain a complete description of all hardware installed including model and serial numbers ensure the availability of user and troubleshooting guides for all hardware. Maintain a document specifying the maintenance organization responsible for each item of hardware and for network wiring. Maintain wiring diagrams showing all network connections and wiring specifications.
5. Documentation shall be maintained using COMMISSION standard desktop office software for word processing (e.g. MS Word), spreadsheets (e.g. MS Excel), standard drafting package, etc.
6. Maintain and update existing documentation, maintenance manuals, maintenance program, and all other documentation of the system.
7. Maintaining test plans: Maintain a library of test plans and procedures for retesting the system after modifications to software or hardware configuration or fixes to software. Also, maintain a file of all test results and evaluations of results along with any recommendations arising out of that testing. All test plans and related files and data shall be or become the property of the COMMISSION. Test plan documentation library shall include:
 - a. Factory testing - maintain factory test plans to verify the functioning of new system components at the ESS CONTRACTOR site prior to delivery. Factory tests must provide assurance that the system will operate as specified and will provide adequate throughput.
 - b. Field-testing - maintain test plans similar to factory testing to verify that similar results are achieved.
 - c. Integration testing - maintain test plans to test the entire system with the new component installed to verify the integrity of the system as a whole and to determine that the intended purpose of the new component is achieved.
 - d. Acceptance testing - maintain test plans to verify the functioning of the new component in the production environment for a specified period prior to final acceptance.

6.23 KEY RELATIONSHIPS

Several organizations are considered "key" for the COMMISSION in the context of this Contract. Such ESS CONTRACTORS supply equipment and software utilized to sustain system functionality, and/or provide services that support system operation. During the term of this Contract, the ESS CONTRACTOR must support the equipment and software provided by these current and any future key ESS CONTRACTORS, and coordinates their efforts to continue

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uninterrupted functionality of the system. The ESS CONTRACTOR may recommend a comparable replacement product at the ESS CONTRACTORS own expense.

The ESS CONTRACTOR must demonstrate to the COMMISSION'S satisfaction, the capability of supporting and maintaining the equipment and software provided by these key ESS CONTRACTORS. Such support capability should include the ability to utilize the manufacturer's (key ESS CONTRACTOR) resources for consultation on product installation and operations, as well as for escalation of problems for resolution. Additionally, considering that some components of the ESS system are proprietary, the ESS CONTRACTOR shall have manufacturer's authorization and certification that is current and up to date for maintaining and servicing all systems hardware and software, network hardware and software installed, including, but not limited to:

1. Genetec
2. Microsoft MCSE or MCIT
3. Cisco CCNA

In addition, be an authorized representative for the following manufactures:

1. Bosch
2. Panasonic
3. Sony
4. Dell
5. APC (UPS)

The ESS CONTRACTOR must interface and interact with other ESS CONTRACTORS on an as-needed basis. The interfaces will generally consist of providing enhancements modifications to the system and resolving problems. The ESS CONTRACTOR must describe any prior working relationships with key ESS CONTRACTORS, emphasizing the nature of the relationship, the quality, and tenor of the relationship and any difficulties experienced with the relationship. Where difficulties are noted, the ESS CONTRACTOR will describe any mechanisms and techniques that would be used to avoid similar difficulties that would affect the terms and conditions of the contract.

The ESS CONTRACTOR shall perform complete scheduled preventive maintenance and corrective maintenance so that the ESS System meets the operational availability and may be operated twenty-four (24) hours a day, seven (7) days per week every calendar month. The maintenance shall be performed with all reasonable care to keep the system in a proper, safe, and efficient operating condition of correct operation and reporting. Any redundant or secondary computer systems and subsystems can be brought on-line within fifteen minutes of the primary equipment being unavailable.

The ESS CONTRACTOR'S obligations for the performance and completion of corrective maintenance within the time or times provided for in Type I and Type II above and for achieving the Operational Availability stipulated above are of the essence of this Contract. The ESS CONTRACTOR guarantees that it can and will obtain the Operational Availability at or above the percentages herein, before stipulated and will complete the corrective maintenance within the

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time(s) herein before stipulated. Inasmuch as the damage and loss to the COMMISSION for failure to repair within the time(s) herein stipulated will be incapable or very difficult of accurate estimation, the damages to the COMMISSION shall be liquidated in the amounts shown in the Repair Time Requirements and Liquidated Damages Schedule, and shall be deducted from the amount payable for that calendar month that each corrective maintenance repair exceeds said time period.

Error Correction:

1. In the event that the System does not operate at the availability stipulated in herein or does not perform due to error in software, hardware or any modifications thereto, the ESS CONTRACTOR shall correct any such error in the System as identified by the COMMISSION. Errors shall include, but not be limited to; flaws in operations and errors due to flaws in the design and coding of the System. Notification of the error shall be via notification to the ESS CONTRACTOR'S 24-hour telephone number. The ESS CONTRACTOR shall be responsible for maintaining and recording a documentation library regarding all error condition/failure. The information shall be furnished to the COMMISSION upon request of the ESS Manager.
2. The ESS CONTRACTOR shall dispatch Trained Personnel and complete performance of such correction to repair, replace and correct all malfunctions required for the System to perform. Such corrections to the software shall be provided at no additional cost to the COMMISSION. The ESS CONTRACTOR guarantees that he will use his best efforts to complete the performance of such error correction within the time set forth.
3. In the event of a system error as a result of a software/hardware upgrades, updates, new releases, and/or patches, the ESS CONTRACTOR shall roll back to the previous software/hardware version if unable to correct the error.

6.24 ESS CONTRACTOR REVIEW/REPORT ON SYSTEM ENVIRONMENT

In order to better ensure the ESS CONTRACTOR'S responsibilities are fulfilled and all tasks pertaining to them are performed in a thorough and professional manner in accordance with Information Technology standards published by the COMMISSION and that all prerequisites to the performance specified under the Contract have been satisfied, the ESS CONTRACTOR shall conduct a complete review to validate the adequacy of the system environment for which the ESS CONTRACTOR will assume operational responsibility upon execution of this Contract. In the conduct of this review the ESS CONTRACTOR shall use as a standard of performance against which to make its evaluation the description of system administration activities contained in this document and applicable COMMISSION standards defined in the same section. Within ninety (90) days of Notice to Proceed to begin Maintenance Services, the ESS CONTRACTOR shall furnish to the COMMISSION a formal report based on such comprehensive review. The report shall include:

An executive summary that shall address key findings and provide recommendations:

1. A complete inventory of system hardware, software and operational documentation including serial numbers and license numbers, hardware configuration diagrams, software configuration descriptions (including release/version numbers), complete database descriptions and existing operational and trouble-shooting documentation.

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2. Review and evaluation of the operations environment, existing procedures, hardware configuration, and operational and system configuration documentation. This review will be to determine whether existing environmental conditions, operational procedures, hardware configuration, and associated supporting documentation meet the operational requirements of the system and are in full compliance with COMMISSION Standards.
3. Review and evaluation of all hardware and software support agreements and warranties that are in effect and performance expectation with respect to these agreements. Review all maintenance support logs and other records for the previous year or since installation of the system (whichever is a shorter period), interview users to assess the degree to which the agreements are being fulfilled. Evaluate record keeping relative to these services, including the existence of appropriate logs/records to ensure all services due are provided.
4. Review and evaluation of the physical access and system access environment. This review will be to determine whether existing security practices and procedures limit physical and logical access to the system, provide for review of attempted intrusions, protection from physical hazards such as fire and flood, adequate back power supply protection, etc.
5. Review and evaluation of the capacity management and performance monitoring procedures. In conjunction with the ESS Manager, the ESS CONTRACTOR shall establish parameters that define acceptable performance, establish procedures to measure system performance, and establish a reporting mechanism to communicate system performance measures to the ESS Manager on a scheduled basis. Evaluate the procedures on database reorganization, file defragmentation and other routine operations designed to maintain adequate system performance. Evaluate the long range tracking and forecasting of system capacity to ensure adequate information is compiled and reported to management to ensure capacity remains adequate through the foreseeable future.
6. Review and evaluation of items included in the system documentation library.
7. Evaluate the procedures for organizing and maintaining up-to-date documentation, create a catalog of all project/system documentation, and establish a table of contents/system organization. Review and evaluate all existing documentation to determine if it meets the operational needs of the system and is in full compliance with COMMISSION Standards.
8. Review and evaluation of the training and support programs for the system to determine if the users are receiving training and support adequate to ensure that the system provides the full value intended in the design.
9. Review and evaluation of the business continuation plan for use in emergency situations.
10. The ESS CONTRACTOR'S assessment of deficiencies in environment, procedures, and/or documentation and how the procedures implemented by the ESS CONTRACTOR will address and correct these deficiencies.
11. The ESS CONTRACTOR must maintain the system administration level of support throughout the term of the Contract including the base period and any exercised option periods.

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12. System availability— Servers, workstations, communication lines, and, if applicable, end of line devices and other specialty hardware.
13. System response times: Transactions and Alarms / Alerts, if applicable.
14. Trouble call response time: Standards for system administrator's response to trouble calls; standards for management of service providers.
15. Software releases: Maintaining currency of the operating system and utility software.
16. Operational Requests: Maximum amount of time before a routine operational request is satisfied (e.g., adding a new user, adding a workstation, creating a network directory; granting a user access to an existing application).
17. Customer Meetings/Reports-- Schedule for status meetings and reports.
18. System Reports: Schedule for delivery of standard reports.
19. Backups and Archiving: Frequency and type of backup; frequency of archive. i.e. SiPass Database.

6.25 DATA SECURITY – SAFEGUARDING DATA

All information concerning the business of the COMMISSION which becomes accessible, or known, to the ESS CONTRACTOR, their employees or subcontractors/subconsultants including, but not limited to, financial information, customers, customer lists, business plans, operational plans, data and computer programs, documentation, engineering/ technical data, design process, pricing, research and development, strategic plans, and operating data resident on magnetic media, or other media processed, stored, archived or maintained, shall be protected from loss, erroneous alteration, and shall be held in strict confidence and protected from unauthorized access. All confidential data shall be protected at all times. The ESS CONTRACTOR shall provide the same care and processes to prevent unauthorized access, modification, theft or other loss of the COMMISSION data via the same, or enhanced, processes that it presently employs to protect its own information of a similar nature. In the event of any non-authorized access, modification, disclosure, theft or other loss, or inability to account for any COMMISSION data, the ESS CONTRACTOR will provide immediate notification to the COMMISSION ESS Manager. In addition, the ESS CONTRACTOR will be held liable for damages or expense to the COMMISSION, including the cost of recovery of lost or modified data, staff time in dealing with the ramifications of the disclosure of private information and corrective procedures and actions undertaken.

6.26 MAINTENANCE AND PROTECTION OF TRAFFIC (MPT)

The ESS CONTRACTOR is responsible to secure and to provide the COMMISSION a copy of all required jurisdictional work permits.

The ESS CONTRACTOR is responsible to provide MPT drawings to the Facility Manager and/or ESS Manager for any Lane closure the ESS CONTRACTOR may require. It is the responsibility of the ESS CONTRACTOR to proceed with work once the date and time of the MPT is granted.

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Traffic closure requests must be submitted by Thursday, 12:00PM (Noon) of the week prior to the closure for all planned installation, maintenance, and corrective action work. After notification, the COMMISSION will advise the public of these traffic restrictions and possible delays.

In addition to the lone week advance notice, provide Forty-Eight (48) hours' notice for Installation, Maintenance, Corrective Work operations that will affect the flow of traffic for the following bridges:

1. Trenton-Morrisville Toll Bridge
2. Scudder Falls Toll-Supported Bridge
3. New Hope-Lambertville Toll Bridge
4. I-78 Toll Bridge
5. Easton-Phillipsburg Toll Bridge
6. Delaware Water Gap Toll Bridge

Twenty-Four (24) hours' notice shall be provided for Corrective Work operations which will affect the flow of traffic for all bridges not listed above.

Provide at least two weeks advance notice before beginning work to the following, if applicable:

- DRJTBC Community Relations Coordinator
- PENNDOT Hauling Permit Office (Automated Permit Routing / Analysis System (APRAS) Permit)
- PENNDOT District 6 District Work Zone Manager (Manny Anastasiadis, 610-205-6590)
- Adjacent property owners
- City of Lambertville Fire (Chief Michael Barlow, 609-397-2084), Police (Police Director Bruce Cocuzza, 609-397-3132) and Public Works (Acting Director Lester Myers, 609-397-2230)
- New Hope Eagle Volunteer Fire Company (215-862-2692), Police (Chief Michael Cummings, 215-348-7400) and Department of Public Works (Director Tom Carroll, 215-862-3031)
- Lambertville – South Hunterdon Regional School District (Louis Muenker, Superintendent 609-397-1888)
- New Hope-Solebury School District (Steven Yanni, Superintendent 215-862-5372)
- Lambertville-New Hope Ambulance and Rescue Squad (Chief Jason Strauss, 609-397-0945)
- NJDOT Traffic Operations North (Mike Pilsbury 973-601-6773)

Advise the COMMISSION immediately if traffic must be impacted to address any Emergency/Critical actions, and arrange MPT accordingly.

MPT costs required for Maintenance are the responsibility of the ESS CONTRACTOR.

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The following replaces subsection 901.2 of PennDOT Publication 408:

Furnish materials and traffic control devices necessary for the maintenance and protection of traffic, conforming to the Contract Plans, and most recent editions of the PENNDOT Publications 212 and 213, MUTCD and NJDOT Standard Traffic Control Details and Construction Details (as applicable) and the following:

- Shadow Vehicle—A truck equipped with a flashing or revolving yellow light and as specified in PENNDOT Publication 212 and Publication 213, and the MUTCD.
- Truck Mounted Impact Attenuator and/or Arrow Panel—Installed on the shadow vehicle, as required in PENNDOT Publication 212 and Publication 213, and the MUTCD.
- Adhesive—Section 966.2(c)

All temporary traffic control devices must be listed in Bulletin 15 as NCHRP-350 compliant. Temporary Type III barricades must comply with PENNDOT Standard Drawing TC-8716 or NJDOT Standard Construction Detail CD-159-1, or be listed in PENNDOT Bulletin 15 as NCHRP-350 compliant.

PENNDOT Certification Form CS-4171 is not required for temporary traffic control devices. However, temporary traffic control devices permanently incorporated as part of the project require Form CS-4171.

Use Type III or Type VII (fluorescent orange) retroreflective sheeting material for all long term traffic control signs. Use Type III (orange) retroreflective sheeting material for all other long term traffic control devices.

Magnetically attach sign or approved equal to all vehicles excluding concrete delivery trucks used on the project during construction operations which travel the project on any traffic lane open to public use. Attach sign to the rear of the vehicles in a prominent position. Maintain signs in a condition suitable to the Engineer.

Size of signs for pick-up trucks and smaller vehicles are a minimum 1 foot high by 3 feet wide with 3-inch letters. Signs for larger trucks are a minimum 2 feet high by 5-foot-wide with 6-inch letters. Provide a sign legend of an orange background with black letters, readable at a distance of 200 feet during daylight hours. Provide sign lettering which reads as follows:

**CONSTRUCTION VEHICLE
KEEP ALERT FOR
SUDDEN STOPS AND TURNS**

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Equip all construction equipment that travels in any traffic lane open to public use with high intensity flashing lights. Use flashing lights of an amber color. Have flashing lights operating when vehicle is entering, leaving, or traveling on any traffic lane open to public use. Provide lights which have a 360 degree field of vision.

All materials required to provide temporary lighting as approved by the Engineer.

All equipment to be NCHRP compliant.

The following replaces Section 901.3(a) of PennDOT Publication 408:

Comply with the Contract Plans and the most recent editions PENNDOT Publication 212, PENNDOT Publication 213, NJDOT Standard Traffic Control Details and the MUTCD.

Install and maintain traffic control devices as indicated on the Traffic Control Plan (TCP), or an approved alternate plan submitted at the preconstruction conference. The Representative may revise the TCP in writing during construction. If unforeseen conditions arise or if revisions are made to the TCP by the Representative, install and maintain additional warning lights and traffic control signs on necessary mounting devices according to PENNDOT Publication 212, PENNDOT Publication 213, NJDOT Standard Traffic Control Details and the MUTCD, and at locations designated in writing by the Representative. Use only PENNDOT-approved or NJDOT-approved channelizing devices. Reflectorize channelizing devices according to PENNDOT Publication 212, PENNDOT Publication 213, and the MUTCD. Provide safety for general public and work crew, and protection of work. Schedule construction operations to allow movement of traffic through various phases of construction with minimum interference. If traffic interruptions become too frequent, cease operations in the area concerned, as directed. Take remedial action to correct situation before continuing operations. Remove or cover existing traffic control devices that conflict with the TCP. Do not attach or place tape or adhesive to any sign face that is temporarily covered. When conflict no longer exists, erect or uncover them.

Install and maintain reduced regulatory speed limit signs in work areas, as indicated on the TCP, approved alternate plan, or as directed.

Temporarily remove or cover reduced regulatory speed limit signs when workers are not present, except as otherwise indicated on the TCP, approved alternate plan, or as directed.

Open any substantially completed section of roadway for the use and convenience of traffic, as directed, and as specified in Section 107.15. When work is completed, immediately remove temporary traffic control devices.

Maintain, clean, and properly operate the devices during the entire time they are in use. Traffic control devices must meet the acceptable or marginal standards of the

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Pennsylvania Quality Guidelines for Temporary Traffic Control Devices. Remove all devices when no longer required. Where operations are performed in stages, keep only the necessary devices that apply to the present stage of construction in operation. Cover or remove from service signs that do not apply to the existing conditions. Cover with rubber roofing material (EPDM) having a thickness of 1.1 mm (0.045 inch) or any other approved material, to cover the entire sign. Stabilize and fasten this material to the sign with either plastic or wood to prevent any movement. Do not apply tape to face of sign. Do not deface or damage the sign face using this procedure.

Do not allow weeds, brush, trees, construction equipment, materials, and the like to obscure any traffic control device.

Maintain travel lane in good condition when in use, to the satisfaction of the Engineer.

Maintain constant surveillance of traffic control operations, and satisfactorily replace or correct all missing, damaged, ineffective, or misaligned equipment to the satisfaction of the Engineer.

Provide knowledgeable Traffic Control Coordinator with sufficient labor and equipment to expeditiously install, clean, straighten, repair, and maintain signs, and change traffic control patterns. Have Traffic Control Coordinator inspect entire traffic control pattern every work day: once prior to start of each work day operation, at least once during each work day, and once after the conclusion of each day operations. Have the Traffic Control Coordinator inspect entire traffic control pattern at least twice every non-work day when long term traffic control pattern or devices are in place. Undertake immediate corrective action of all deficiencies found during inspections including reporting deficiencies. Repair or replace defective or inoperative changeable message signs and arrow panels within four hours of discovery or notification by the Commission. Document in a diary kept current at all times, all inspection reviews, and corrective actions taken pertaining to placement of signs and devices, and directing traffic.

Furnish to the Commission and the New Jersey State Police, Pennsylvania State Police, the New Hope Police Department and the Lambertville Police Department the name of the Coordinator and the telephone numbers where he/she can be reached at all times. The Coordinator will be on call 24 hours a day, seven days a week, and will be required to have a mobile communication device.

Provide sufficient number of properly attired flaggers (vest; leggings, hard hat) to adequately control traffic flow through the work zone, which includes any intersecting streets in the work zone, and as directed. At night, flagger stations shall be illuminated, except in emergencies.

No temporary lane closures, flagging operations (alternating-traffic patterns) or slowdowns shall be allowed during the following holiday periods:

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- Easter Sunday, including Friday, 3/30/18, 5:00 am through Tuesday, 4/3/18, 12:00 pm.
- Memorial Day, including Friday, 5/25/18, 5:00 am through Tuesday, 5/29/18, 12:00 pm.
- Independence Day, including Tuesday 7/3/18, 5:00 am through Thursday, 7/5/18, 12:00 pm.
- Labor Day, including Friday, 8/31/18, 5:00 am through Tuesday, 9/4/18, 12:00 pm.
- Columbus Day, including Friday, 10/5/18, 5:00 am through Tuesday, 10/9/18, 12:00 pm.
- Veterans Day, including Friday, 11/9/18, 5:00 am through Tuesday, 11/13/18, 12:00 pm.
- Thanksgiving Day, including Wednesday, 11/21/18 5:00 am through Monday, 11/26/18, 12:00 pm.
- Christmas Day, including Friday, 12/21/18, 5:00 am through Wednesday, 12/26/18, 12:00 pm.
- New Year's Day, including Friday, 12/28/18, 5:00 am through Wednesday, 1/2/19, 12:00 pm.

NJDOT traffic Operations-North and PENNDOT District 6 must be notified 72 hours prior to any traffic pattern changes being performed.

The use of portable changeable message signs, permanent facilities such as traffic alert radio (i.e. highway advisory radio (HAR)) and changeable message signs must be coordinated with NJDOT Traffic Operations-North and PENNDOT District 6. Messages shall be in accordance with the standards of the agency with jurisdiction.

Maintain a list of emergency contacts including but not limited to Hospitals, Paramedics, Fire, and Police for both the Pennsylvania and New Jersey sides of the bridge. Prepare and submit for approval an emergency response plan of action.

Install all signs on breakaway posts as specified in TC 7702B with the exception of those signs mounted on barricades and structures. When installing ground mounted temporary signs, the Contractor shall locate underground utilities to avoid conflicts between subsurface utilities and sign posts.

Maintain surveillance of the traffic control operations and replace or correct any missing, damaged, ineffective or misaligned equipment to the satisfaction of the Engineer within 8 hours.

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The Contractor is responsible for coordinating construction activities and maintenance and protection of traffic with all contractors and subcontractors under contract with the Commission and other agencies including NJDOT, PennDOT, Lambertville, New Hope, and other municipalities within the project limits. All costs associated with coordination will be the responsibility of the Contractor.

Assure that warning vests, shirts, or jackets (orange or lime green) are worn by all employees engaged in daylight work operations on or immediately adjacent to the traveled portion of the highway, on medians, berms, gore areas, and material stocking areas, when flagging, and where worker sight recognition is desirable. When working at night, provide that the warning vests are reflectorized.

During hours of darkness, all signs shall be reflectorized or illuminated and each Flagger shall wear a reflectorized outer garment. Illumination of each Flagger station is required.

Coordinate delivery of materials to minimize inconvenience to the traveling public.

Protect any excavations, obstructions or construction work so as to not expose traffic to hazards.

Maintain access to all side roads, private driveways, and businesses at all times. If short-term operation will affect access to driveways, provide 72-hour advance notice to property owner.

Immediately remove any earth, gravel or other material tracked or spilled in traffic lanes or shoulders not in protected work areas.

Submit a schedule and layout operations showing lane closings, construction vehicles access points, and anticipated dates of work to the Engineer two weeks prior to commencing work requiring closure of roadway lanes.

Provide all equipment, tools, services, supplies, personnel, and transportation to maintain the various traffic control systems.

If construction operations require modifications to maintenance and protection of traffic on this project, submit a revised Traffic Control Plan for review and approval by the Engineer.

Any deviation from the traffic control plan must be approved by the Engineer prior to putting the change into operation.

No repair or painting work or containment/shielding installation or removal shall be performed on structures adjacent to, or above, vehicular, boat or pedestrian/bicycle traffic until all arrangements have been made to protect traffic on, adjacent to or below the structure.

The Contractor shall provide a shadow vehicle for use in the daytime lane closures as shown on the Contract plans. Shadow vehicle will have a minimum weight of 7000 lbs. when used as a device in the lane closure.

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Make adjustments as necessary to fit existing field conditions with the approval of the Engineer.

At completion of project, remove all construction signs and devices from the project site.

The following is added to Section 901.3(n) of PennDOT Publication 408:

The Contractor shall provide temporary lighting or maintain the existing lighting when the bridge is open to traffic. Temporary lighting plans developed by the Contractor shall be approved by the Engineer. The temporary lighting plan shall provide the illuminance values as follows:

Average Maintained Illuminance shall be as close to 0.60 foot-candles as possible while not exceeding the uniformity ratio of 4:1

Minimum Point Illuminance shall be 0.20 foot-candles

Light Loss Factor shall be 0.64

The following is added to Section 901.3(gg) of PennDOT Publication 408:

Before starting Work, submit to the Engineer the name, training, work experience, and contact information of an employee(s) assigned as the on-site Traffic Control Coordinator(s) (TCC). The TCC must be certified as having successfully completed the Rutgers CAIT Traffic Control Coordinator Program, or an equivalent course as approved by the NJDOT Office of Capital Project Safety. The TCC must also successfully complete an approved Traffic Coordinator refresher course every 2 years. The TCC is a full-time position with sole responsibility being the TCC and the employee(s) designated as TCC must be available on a 24-hour a day, 7-days a week basis. The TCC is to be on site the entire duration of any lane restrictions implemented and work is ongoing. The TCC shall have the responsibility for and authority to implement and maintain all traffic operations for the Project on behalf of the Contractor. The TCC's responsibilities and duties shall include as a minimum the following:

1. Overseeing traffic control operations, including those performed by subcontractors.
2. Coordinating traffic control with subcontractors, State Police, other contractors, and Utilities.
3. Ensuring that set-up and removal is performed according to the Contract.
4. Performing daily traffic control inspections and providing written reports documenting the inspections, including detailed findings and corrections made.

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5. Performing inspections at night and on weekends to ensure compliance with the TCP.
6. Ensuring that traffic control devices are correctly positioned and spaced.
7. Ensuring that signs are properly covered or uncovered.
8. Maintaining or replacing traffic control devices to ensure traffic control devices are in an acceptable condition and good working order. Maintenance also includes replacing lights bulbs and electrical components and refueling, recharging, or replacing batteries.
9. Ensuring that routine road maintenance is performed, including debris removal and road cleaning.
10. Ensuring that construction operations do not create flooding or icing conditions for lanes open to traffic.
11. Identify and correcting traffic control deficiencies immediately. Correct traffic control deficiencies directed by the Engineer within 2 hours of notification.
12. Ensuring that vehicles, equipment, and material stored adjacent to the road are behind barriers or stored at least 30 feet from the traveled way.
13. Ensuring that Contractor vehicles for material delivery enter or exit the traveled way in a safe manner.
14. Provide additional employees to assist the TCC as approved by the Engineer. The Engineer may request the TCC or additional employees to demonstrate their competency at any time.
15. Notify the Engineer before performing daily inspections to provide the Engineer with the opportunity to observe the inspections.

6.27 UNFORESEEN WORK

The ESS CONTRACTOR shall provide an Unforeseen Work Allowance in the amount of \$600,000. This predetermined allowance shall be solely owned by the COMMISSION and as such the COMMISSION shall have sole discretion relating to the use of this predetermined allowance during the term of the Contract.

The ESS CONTRACTOR may, from time-to-time, be requested to provide other services not covered by the Contract Documents. This may include, without limitation, equipment installation, on-call technician and engineering support, and on-call software engineering support.

The ESS CONTRACTOR will be reimbursed for costs associated with the repair and replacement of equipment due to damage caused by vandalism, flooding, and other damage caused by third parties.

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The value of any Work covered herein shall be determined in accordance with Article 9 of the General Conditions and based upon information provided by the ESS CONTRACTOR as part of its Price Proposal included within Key Staff and Position Classifications with Rates Sheet 4 and Unit Pricing Summary Sheet 5.

6.28 CHANGES TO THE ESS

The COMMISSION is in the process of implementing modifications and changes to the Electronic Surveillance / Detection System (ESS) as part of the following 12 ongoing projects. These projects will be complete by September 30, 2018, and are expected to be maintained by the ESS CONTRACTOR.

- A. **Cash Locker Installation at 6 Toll Bridge Sites** (DWG, I-78, EP, PC, NHL, MM) – The existing ESS Maintenance Contractor will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the Milford Montague Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.
- B. **DWGTB Toll Lieutenant ESS Workstation** – Public Safety Bridge Security will install an existing ESS workstation in the Toll Lieutenant office.
- C. **I-78 Public Safety Bridge Security Workstation Upgrade** – The existing ESS Maintenance Contractor will provide two (2) new high performance ESS workstations. One of these workstations will be installed in the ESS Director's office at the I78 administration building and one will be a spare unit.
- D. **I-78 Camera Upgrades Admin Building Area** – The existing ESS Maintenance Contractor will install/replace five (5) Bosch MIC 1080P PTZ cameras. The existing ESS Maintenance Contractor will install two (2) new fixed cameras. The existing ESS Maintenance Contractor will provide two (2) new SunWize Power Systems.
- E. **TMTB Camera Upgrades Admin Building Area** – The existing ESS Maintenance Contractor will install seven (7) Bosch MIC 1080P PTZ cameras at various point at the Trenton Morrisville Bridge. The existing ESS Maintenance Contractor will install nine (9) new fixed cameras. The existing ESS Maintenance Contractor will install five (5) new Sunwize Power Systems.
- F. **TMTB ESS Workstation Installation** – The existing ESS Maintenance Contractor will install 1 24port ethernet switch and 1 BCDVideo High performance workstation
- G. **PCTB Door ACS** – The existing ESS Maintenance Contractor will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.

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- H. **NHLTB Permanent Power** – The existing ESS Maintenance Contractor will bore from one of the existing lighting poles located on the off-ramp, to the grass area along roadway. The existing ESS Maintenance Contractor will create a trench in grass area along the right shoulder of the roadway to the existing CCTV pole, approximately 750’.
- I. **NHLTB Camera Upgrades** – The existing ESS Maintenance Contractor will install 1 new Bosch MIC PTZ and 2 Sony 4K all in one cameras at NHL01 pole location.
- J. **CBSTSB Analog to IP Camera Upgrades** – The existing ESS Maintenance Contractor will install 1 Bosch MIC 1080P PTZ.
- K. **PCC Activu Wall 48 Cameras increased to 64 cameras** – The existing ESS Maintenance Contractor will increase the Activu Wall camera capabilities to 64 cameras.

The ESS will also include the below mentioned Confirmed Future Projects:

A. **Administration Building at Scudder Falls (*Estimated Completion Date: July 31, 2019*)**

The Commission Administration Building at Scudder Falls and Adaptive Reuse of the 1799 Building (T-707A) project involves construction of a new Administration Building to consolidate the administrative staff currently located at several locations various IT services. In addition, the project includes renovations to the existing Park and Ride Lot located at the northwestern portion of the property, and creation of a bike path connecting the Park and Ride Lot and the 1799 Building.

ESS systems / hardware will include, but not limited to, headend equipment (servers, switches, patch panels, media converters, DVR, UPS, etc.), cameras (fixed and pan-tilt-zoom), ACS equipment, motion detectors (passive infrared sensors), glass break detectors, intercom, local area network, infrastructure and associated equipment / devices.

B. **Adaptive Reuse of 1799 House (*Estimated Completion Date: July 31, 2019*)**

In addition to the new Administration Building, the Commission Administration Building at Scudder Falls and Adaptive Reuse of the 1799 Building (T-707A) project includes renovations to the existing circa 1799 House located at the northeast corner of the property and will provide restrooms for the public using the Pennsylvania Canal Bike Trail.

ESS systems / hardware will include, but not limited to cameras (fixed and pan-tilt-zoom), ACS equipment, motion detectors, local area network, infrastructure and associated equipment / devices.

The headend equipment (servers, switches, patch panels, media converters, DVR, UPS, etc.) to be contained within the Administration Building will support ESS equipment associated with the 1799 House.

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C. BM/AET Facility (*Estimated Completion Date: June 1, 2019*)

The Scudder Falls Bridge Replacement Project (Contract No. T668A) includes the replacement of the existing I-95 bridge over the Delaware River with new northbound and southbound structures; 4.4 miles of approach roadway improvements between the I-95/PA Route 332 Interchange in Pennsylvania and the I-95/Bear Tavern Road Interchange in New Jersey; the reconfiguration of the I-95/Taylorsville Road Interchange in PA, and the I-95/Route 29 Interchange in NJ and associated ramps and structures; and, a pedestrian/bicycle shared-use pathway contiguous with the upstream, or southbound structure, that ties in with the canal towpaths in both Pennsylvania and New Jersey. The project also includes construction of noise walls in both Pennsylvania and New Jersey, a Bridge Monitor/ All Electronic Tolling Facility, including an AET equipment gantry and a wetland mitigation site in Pennsylvania.

The Bridge Monitor/All Electronic Tolling Facility (BM/AET Facility) will be near the proposed I-95 Pennsylvania abutment. The BM/AET facility will be a four (4)-story building with one side of the building contiguous with the retaining wall of I-95 southbound retained fill section.

ESS systems / hardware will include, but not limited to, headend equipment (servers, switches, patch panels, media converters, DVR, UPS, etc.), cameras (fixed and pan-tilt-zoom), ACS equipment, motion detectors (passive infrared sensors), glass break detectors, intercom, local area network, infrastructure and associated equipment / devices.

D. New Scudder Falls Toll Bridge - Southbound Structures & Approach Roadways (*Estimated Completion Date: June 1, 2019*)

The Scudder Falls Bridge Replacement Project (Contract No. T-668A) includes the replacement of the existing I-95 bridge over the Delaware River with new northbound and southbound structures; 4.4 miles of approach roadway improvements between the I-95/PA Route 332 Interchange in Pennsylvania and the I-95/Bear Tavern Road Interchange in New Jersey; the reconfiguration of the I-95/Taylorsville Road Interchange in PA, and the I-95/Route 29 Interchange in NJ and associated ramps and structures; and, a pedestrian/bicycle shared-use pathway contiguous with the upstream, or southbound structure that ties in with the canal towpaths in both Pennsylvania and New Jersey. The project also includes construction of noise walls in both Pennsylvania and New Jersey, a Bridge Monitor/ All Electronic Tolling Facility, including an AET equipment gantry and a wetland mitigation site in Pennsylvania.

The replacement of the existing Scudder Falls Bridge carrying I-95 over the Delaware River / River Road (SR 32) / NJ-29 SB will include a southbound structure and a northbound structure for a total width of 187 feet. Each structure will consist of seven spans, supported by six piers and two abutments for a total length of about 1,814 feet.

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Additionally, the Taylorsville Road Bridge (I-95 over Taylorsville Rd) in Pennsylvania and Delaware Canal Bridge (I-95 over Delaware Canal) will be replaced with single span dual structures carrying I-95 traffic.

A pedestrian/bicycle facility that will provide pedestrian/bicycle access across the Delaware River on the southbound structure. This shared-use facility will connect the Delaware Canal towpath in Pennsylvania, via Woodside Road, to the Delaware and Raritan Canal towpath in New Jersey.

ESS systems / hardware associated with the southbound structures and approach roadways will include, but not limited to, cameras (fixed and pan-tilt-zoom), local area network, infrastructure and associated equipment / devices.

The headend equipment (servers, switches, patch panels, media converters, DVR, UPS, etc.) to be contained within the BM/AET Facility will support ESS equipment associated with the southbound structures and approach roadways.

E. New Scudder Falls Toll Bridge - Northbound Structures (*Estimated Completion Date: June 15, 2021*)

The Scudder Falls Bridge Replacement Project (Contract No. T668A) includes the replacement of the existing I-95 bridge over the Delaware River with new northbound and southbound structures; 4.4 miles of approach roadway improvements between the I-95/PA Route 332 Interchange in Pennsylvania and the I-95/Bear Tavern Road Interchange in New Jersey; the reconfiguration of the I-95/Taylorsville Road Interchange in PA, and the I-95/Route 29 Interchange in NJ and associated ramps and structures; and, a pedestrian/bicycle shared-use pathway contiguous with the upstream, or southbound structure, that ties in with the canal towpaths in both Pennsylvania and New Jersey. The project also includes construction of noise walls in both Pennsylvania and New Jersey, a Bridge Monitor/ All Electronic Tolling Facility, including an AET equipment gantry and a wetland mitigation site in Pennsylvania.

The replacement of the existing Scudder Falls Bridge carrying I-95 over the Delaware River / River Road (SR 32) / NJ-29 SB will include a southbound structure and a northbound structure for a total width of 187 feet. Each structure will consist of seven spans, supported by six piers and two abutments for a total length of about 1,814 feet. Additionally, the Taylorsville Road Bridge (I-95 over Taylorsville Rd) in Pennsylvania and Delaware Canal Bridge (I-95 over Delaware Canal) will be replaced with single span dual structures carrying I-95 traffic.

ESS systems / hardware associated with the northbound structures will include, but not limited to, cameras (fixed and pan-tilt-zoom), local area network, infrastructure and associated equipment / devices.

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The headend equipment (servers, switches, patch panels, media converters, DVR, UPS, etc.) to be contained within the BM/AET Facility will support ESS equipment associated with the northbound structures.

In addition to maintaining the ESS as it exists at the time of their Proposal, the ESS CONTRACTOR shall be required to maintain all the above referenced modifications and changes to the system.

The COMMISSION will continue to expand and enhance the ESS within the next three to five years. The ESS CONTRACTOR shall provide preventative and corrective maintenance of these enhancements to the ESS.



TAB 3 EVALUATION CRITERIA

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EVALUATION CRITERIA

1.0 INTRODUCTION

The Delaware River Joint Toll Bridge Commission (the COMMISSION) will utilize a best value selection process that incorporates project experience, technical approach, project management, schedule, price, and other considerations that the COMMISSION deems relevant in the evaluation of Electronic Surveillance and Detection System (ESS) Maintenance Contract Proposals in response to the COMMISSION'S Request for Proposal (RFP).

Technical factors will be evaluated and scored on a numeric scale after which the Price Proposal will be assigned a numerical score. A weighted score will be established and used to make a determination for awarding the Contract. The COMMISSION chose the best value approach because it allows for the selection of an ESS CONTRACTOR based on both technical quality and price. The Technical Score will account for 60% of the weighted score and the Price Score will account for the remaining 40%.

2.0 EVALUATION / SCORING PROCEDURE

The COMMISSION has developed a selection procedure in order to provide an assessment of qualitative factors as well as price. Proposals will be submitted in two (2) separate sealed packages, one containing the Technical Proposal, and one containing the Price Proposal as further detailed in RFP Tab 1, Instructions to Proposers. All Technical Proposals will be evaluated and Technical Scores compiled as described herein before opening the Price Proposals. All Price Proposals will be opened and assigned Price Scores as described herein. Total Scores will be calculated as the sum of the Technical Score and the Price Score. The Total Scores will subsequently be used for the purpose of selection of the recommended PROPOSER.

PROPOSERS are expected to submit a Proposal that clearly articulates/demonstrates their ability to affirmatively respond to the criteria identified herein and elsewhere in this RFP. Selection shall be made of the PROPOSER deemed to be qualified, most responsive, and best suited among those submitting Proposals on the basis of the evaluation factors included herein and elsewhere in this RFP, including, without limitation, the qualitative factors, and price. PROPOSERS may be invited to participate in oral interviews with the COMMISSION, which may be factored into the weighted score.

As further discussed in Article 13 of RFP Tab 1, Instructions to Proposers, the COMMISSION may also choose, in its sole discretion, to establish a negotiating team and negotiate with one (1) or more short-listed PROPOSERS prior to selecting the top-ranked PROPOSER. Based on these negotiations one (1) or more short-listed PROPOSERS may be requested to submit best and final offers (BAFOs). Based on the BAFOs (if a BAFO process is used), including the BAFO Price Proposals, and the other evaluation factors described above and in this RFP, the COMMISSION will select the firm it has determined, in its sole discretion, to be the most responsive PROPOSER to the RFP.

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3.0 TECHNICAL PROPOSAL EVALUATION / SCORING

The COMMISSION's Executive Director or his designee(s) will establish a Technical Evaluation Committee (TEC). The TEC may consist of any combination of COMMISSION staff and/or outside consultants. Each member of the TEC will independently evaluate and score all Technical Proposals on the following Rating Criteria (detailed below):

- *Written Technical Proposal* – (See Tab 1, Instructions to Proposers, Article 23, Proposal Submission Requirements)
 - Project Approach (Section 1 of Proposal)
 - Project Approach to System Enhancements (Section 2 of Proposal)
 - Project Approach to Maintenance and Warranty (Section 3 of the Proposal)
 - Project Schedule and Project Plan (Section 4 of Proposal)
 - Project Team Qualifications and Demonstrated Experience (Section 5 of Proposal)
 - Firm Capabilities (Section 6 of Proposal)
 - Responsiveness to Requirements of the RFP (General)
- *Interview Performance* (If interviews are conducted) – The total Technical Proposal Score will be comprised of 70 % for the written portion and 30% for the interview.

Project Approach

- PROPOSERS should describe the technical approach to the Project and how the PROPOSER will plan for and accommodate each aspect of the Project scope. The Proposal should carefully address each section and all of the functional and technical requirements specified in Tab 2, Technical Requirements. This section should address the following:
- Discuss PROPOSER'S technical approach for satisfying all of the requirements for the ESS System Enhancements. Be sure to identify all ESS equipment and software, including each of the subsystems and describe the approach for each enhancement.
- Provide a preliminary bill of materials (BOM) as an attachment, as described in Section 2 of RFP Tab 2, Technical Requirements.
- Describe clearly and with the aid of diagrams and flow charts the proposed technical approach for the migration and upgrade process and schedule for all hardware and software described in Tab 2.
- Discuss PROPOSER'S adherence to the performance requirements and explain how PROPOSER will meet or exceed key specific performance requirements of the Project (refer to Section 6.20 of RFP Tab 2, Technical Requirements). Provide,

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where available, examples of how performance requirements were met or exceeded on other similar projects and how the performance was measured.

- Specifically address PROPOSER'S approach and strategy to successfully work and cooperate with existing provider to integrate PROPOSER'S hardware and software into the existing ESS system.
- Discuss PROPOSER'S approach and strategy to incorporate the scope of work for the existing Access Control System or the PROPOSER'S alternative approach to maintaining the Access Control System component of the ESS System.
- Discuss PROPOSER'S approach to satisfying the reporting requirements of the Project, highlighting any specific and unique features of PROPOSER'S reporting system relating to performance reporting and other types of reports.
- Discuss PROPOSER'S approach to transitioning from the existing provider all maintenance services and transfer of knowledge prior to the end of contract of the existing provider for the ESS System including the LAN communication systems and identify what are anticipated by PROPOSER to be major transition issues and how these issues shall be addressed.
- Discuss the installation process and how PROPOSER intends to meet requirements identified in Section 4 of RFP Tab 2, Technical Requirements. Discuss PROPOSER'S plans and ideas for coordination of installation with COMMISSION construction contractor(s) and the existing systems integrator.
- Discuss PROPOSER'S approach to testing and system acceptance, as described in Section 5 of RFP Tab 2, Technical Requirements. Discuss, including PROPOSER'S overall test plan approach, how system testing is conducted, and specifically what tests, test functions, and test methods are being proposed to ensure system meets the requirements of the Contract.

Project Approach to System Enhancements

- *Technical Solution* – PROPOSERS shall submit a technical approach that addresses all Project requirements and objectives, including, without limitation the following:
 - System Integration: logic, advantages and proven approach
 - System performance and reliability: proposed system performance and actual documented performance of installed systems on similar projects
 - Use of components and software proven in service on similar projects
 - Evidence of willingness to exceed project requirements
 - System flexibility and upgradeability
 - Ability to work and perform in a multi-solution, multi-vendor environment

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Evaluation Criteria

- *System Design* – PROPOSERS shall submit a comprehensive Design for the ESS that clearly and adequately addresses requirements of the RFP. The focus of Design evaluation will be on:
 - Design logic
 - Advantages and,
 - Proven approach, in combination with the technical solution elements discussed above.
- *Technical Innovation* – PROPOSERS shall demonstrate innovation in the Design, integration and the use of equipment. Innovation is defined as providing a robust system that is scalable/expandable to accommodate the addition of new sub-systems and ESS locations; maximizes the ability to interface with both COMMISSION systems and external systems, (current and anticipated) and permits obtaining maximum system life.

Project Approach to Maintenance and Warranty

- *Maintenance Requirements* -- PROPOSERS shall submit an approach to Maintenance that meets or exceeds all Maintenance services and warranty requirements as specified in Section 6 of RFP Tab 2, Technical Requirements.
- *Maintenance Innovation* – Demonstrated innovation in the approach to Maintenance will be evaluated. Innovation means providing materials, operating efficiencies, and equipment that will reduce the long-term Maintenance and operating expenses of the Project and enhances system performance and equipment component life.
- *Maintenance Coordination* – Demonstrated ability and willingness to maintain a combination of PROPOSER's System and legacy systems and to coordinate the delivery of system software Maintenance in a multi-provider environment.
- *Serviceability* – Demonstrated serviceability of components and the overall ESS. Serviceability is defined as how easy it is to remove, replace and repair components with a goal of minimizing impacts to traffic, system and component downtime and resultant costs.

Project Schedule and Project Plan

- *Project Plan* – PROPOSERS shall present a feasible and comprehensive Project plan that addresses the variety of program requirements within the prescribed timeframe. Focus shall be on:
 - Logic, clarity and specificity of work plan
 - Demonstration of plan for coordination with the COMMISSION and other Contractors

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- Organization, logic, quality and appropriateness of labor distribution relative to scope of work
- Logical approach to phasing and transition
- *Project Schedule* – PROPOSERS shall demonstrate an ability to meet or exceed the scheduling requirements of the Project through the implementation of innovative solutions to Design, installation, system integration and testing while ensuring quality in the final product.
- *Quality Implementation* – PROPOSERS shall demonstrate project-specific quality assurance and quality control measures to ensure that the completed Project meets or exceeds requirements set forth in Tab 2, Technical Requirements.

Project Team Qualifications and Demonstrated Experience

- *Project Experience* – Evidence of experience with projects of similar size and nature will be evaluated.
- *Time Commitment* – Time commitment of key members on this project relative to other commitments and local presence commitment.
- *Qualifications and Experience of Key Personnel* – Demonstrated relevant experience of the project manager, task managers, and other key personnel.
- *Key Personnel Role*: Comparability of key personnel role in example projects provided to their role on this Project.
- *References* – Positive references based on reference forms and subsequent follow-up by COMMISSION.
- *Subcontractors* - Experience, technical competence, and role of Subcontractors, including prior working relationship with prime.

Firm Capabilities

- *Completed Projects* - Nature, quality, and relevance of completed projects.
- *Firm Commitments* – Other on-going commitments and priorities that could impact this Project.
- *Senior Staff* – Availability of senior staff to oversee and guide Project.
- *Corporate Resources* - Evidence of overall corporate resources available to ensure completion of Project
- *Financial Resources*- Financial stability and strength of the firm/team.

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Responsiveness to Requirements

- The Proposal shall be well-developed and organized, address all selection criteria, and conform to RFP requirements.

4.0 PRICE PROPOSAL EVALUATION / SCORING

All Price Proposals submitted by PROPOSERS will be opened and evaluated subsequent to the evaluation of Technical Proposals. Price Proposals that contain conditions that are unacceptable to the COMMISSION or that are considered by the COMMISSION not to be responsive or constitute a material deviation from the requirements of the RFP may be rejected. All opened Price Proposals that have not been rejected will be scored. Price Scores will be inversely proportional to the Price Proposals, with the lowest Price Proposal as the baseline. For example:

<u>Price Proposal</u>	<u>Low Price Proposal Ratio</u>	<u>Price Score</u>
\$2.0M	$\$1.0\text{M} / \$2.0\text{M} = 0.500$	$0.500 \times 40\text{pts} = 20.00\text{pts}$
\$1.7M	$\$1.0\text{M} / \$1.7\text{M} = 0.588$	$0.588 \times 40\text{pts} = 23.53\text{pts}$
\$1.4M	$\$1.0\text{M} / \$1.4\text{M} = 0.714$	$0.714 \times 40\text{pts} = 28.57\text{pts}$
\$1.0M	$\$1.0\text{M} / \$1.0\text{M} = 1.000$	$1.000 \times 40\text{pts} = 40.00\text{pts}$

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Project No. 0454A
Customer Service Center/Violations Processing Center
Design-Build-Operate-Maintain Project
Price Proposal Instructions**



**TAB 4
PRICE PROPOSAL INSTRUCTIONS**

**Electronic Surveillance / Detection System (ESS)
Maintenance Contract**

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Contract No. DB-724A
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Project No. 0454A
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Design-Build-Operate-Maintain Project
Price Proposal Instructions**

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Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Price Proposal Instructions**

1. GENERAL INSTRUCTIONS

PROPOSERS shall complete the Price Proposals in accordance with the following instructions:

- 1.1.** PROPOSERS shall submit their Price Proposals on the Price Proposal Forms included in RFP Tab 8, Proposal Forms. Proposals should be placed in a separate envelope and sealed. The words "Price Proposal" should be clearly marked on the envelope with the name of the PROPOSER and the Project title. Price Proposals shall be submitted in the quantity and manner identified in RFP Tab 1, Instructions to PROPOSERS.
- 1.2.** The Price Proposal Forms shall constitute the PROPOSER's full and complete Price Proposal for compensation for performance of the Contractor's obligations and Work under the Electronic Surveillance / Detection System (ESS) Maintenance Contract. Capitalized terms that are used in these Price Proposal Instructions, but not defined herein shall have the meanings assigned to them in the Contract Documents.
- 1.3.** PROPOSERS must complete the Price Proposal Forms in their entirety. The Price Proposal Forms for the Project are as follows:
 1. Price Summary - Sheet 1
 2. Maintenance Services - Sheets 2A, 2B and 2C
 3. System Enhancements - Sheet 3
 4. Key Staff and Position Classifications with Rates - Sheets 4
 5. Unit Pricing Summary – Sheet 5
- 1.4.** PROPOSERS should not fill in any grayed-out cells on the Price Proposal Forms, nor shall the PROPOSER make any other entry on or alteration to the Price Proposal Forms other than in accordance with these Price Proposal Instructions.
- 1.5.** The COMMISSION may waive or correct any error appearing in the Price Proposal Forms, if the correct amount can be clearly ascertained from the information provided; however, the COMMISSION is under no obligation to do so. In the event of an inconsistency between the amount stated in numbers and the amount stated in written words the amount stated in written words will control. In the event of a mathematical miscalculation, the correct sum will control.
- 1.6.** An officer of the PROPOSER or an individual otherwise authorized in writing by an officer of the PROPOSER must sign and date all Price Proposal Forms in the appropriate place on each Price Proposal Form.
- 1.7.** All elements of the Price Proposal must be completed - If zero (0) quantities are included in the Proposal, a zero (0) must be entered into the corresponding cell. In addition, all items set forth by the COMMISSION in the price sheets will be assumed to be included in the Proposal unless such items are specifically

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identified as an exception in RFP Tab 8-15, RFP Requirements Conformance Tables.

- 1.8.** The COMMISSION reserves the right to reject Proposals that are not completed in accordance with the instructions set forth herein.
- 1.9.** PROPOSERS are advised to carefully review all terms and conditions of the Contract Documents, as well as these Price Proposal Instructions, prior to completing the Price Proposal Forms in RFP Tab 8, Proposal Forms.
- 1.10.** The Price Proposal Forms are provided in Excel format worksheets for ease of completion and checking. Instructions for completion of each of the Price Proposal Forms are provided in Sections 1 through 6 of these Price Proposal Instructions.
- 1.11.** The Price Proposal shall be inclusive of all costs, fees and applicable taxes associated with the Project necessary to meet the requirements of the Project as described in the RFP, including, but not limited to RFP Tab 2, Technical Requirements. No price escalation will be allowed above the cost provided on the Price Proposal Forms to complete the Work.

2. INSTRUCTIONS ON COMPLETING THE PRICE PROPOSAL FORMS

- 2.1.** There are five (5) categories of pricing sheets that comprise the Price Proposal Forms. The pricing sheets are as follows:

Sheet 1 – The Summary sheet that totals all pricing sheets for the Total Contract Price.

The Summary sheet includes an Unforeseen Work Allowance in the amount of \$600,000.00. This predetermined allowance shall be solely owned by the COMMISSION and as such the COMMISSION shall have sole discretion relating to the use of this predetermined allowance during the term of the Contract. Furthermore, any unused portion of the allowance shall be credited back to the COMMISSION via a deduct Change Order, reducing the overall value of the Contract Price accordingly.

Sheet 2 – The PROPOSER shall use the following sheets for the pricing of the Total Maintenance Service required for the contract years 1 thru 3, option year 4, and option year 5. The Maintenance Services sheets are subdivided as follows:

- Sheet 2A – Maintenance Services (Years 1, 2, and 3).
- Sheet 2B – Maintenance Services (Optional Year 4).
- Sheet 2C – Maintenance Services (Optional Year 5).

Sheet 3 – The PROPOSER shall provide pricing required for the System Enhancements.

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Sheet 4 – The PROPOSER shall provide the names and billing rates for the key staff and corresponding classifications.

Sheet 5 – The PROPOSER shall provide the Unit Price to furnish, associated Labor Price for installation, and Maintenance Cost per month for adding item to the maintenance contract.

- 2.2.** PROPOSER shall not fill in any grayed-out cells on the Price Proposal Forms, nor shall the PROPOSER make any other entry or modification to the PRICE Proposal Forms other than in accordance with the Price Proposal instructions.
- 2.3.** On most sheets there are formulas that are automatically calculated based on data entered from elsewhere in the sheet. These cells are shown in black font and cannot be altered.
- 2.4.** PROPOSERS are required to verify for themselves that formulas and calculations are performing correctly.

3. COMPLETION OF THE MAINTENANCE SERVICES SUMMARY SHEETS 2A, 2B, 2C

- 3.1.** The PROPOSER shall complete all sheets for all costs associated with the maintenance services as described in Tab 2, Section 6.0. The costs shall also include without limitation, all equipment, supplies, parts and materials, overhead, burden, profit, taxes, duties, fees, permits, licenses, warranties and other items necessary to meet the ESS CONTRACTOR's contractual requirements. No price escalation will be allowed above the costs provided on the Price Proposal Forms to complete the Work.
- 3.2.** For Item #1, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for the ESS Workstations at the TB and TSB locations.
- 3.3.** For Item #2, the PROPOSER shall provide the Total Contract Price for all services required to comply with Tab 2, Section 6.0 for the ESS Workstations at the Primary Control Center (PCC) and Secondary Control Center (SCC) locations.
- 3.4.** For Item #3, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for the Video Management System.
- 3.5.** For Item #4, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for the Access Control System.
- 3.6.** For Item #5, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for the Video Analytic System.
- 3.7.** For Item #6, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for the Active Directory (AD) services.

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- 3.8.** For Item #7, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for the SNMP, Email, Asset Management, Anti-Virus, and other Systems.
- 3.9.** For Item #8, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for the Camera System. The Total Cost shall include but is not limited to: camera, power supply, cables, focusing and realignment, cleaning, encoders, heaters and fans, housing, communications, etc.)
- 3.10.** For Item #9, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for all HVAC and electrical systems required by the ESS systems including, but not limited to: power supply, battery, UPS, generator, air conditioning, heater, fan, propane tank, sensors and gauges, etc.)
- 3.11.** For Item #10, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for the Local Area Networks including, but not limited to wireless systems at each of the locations.
- 3.12.** For Item #11, the PROPOSER shall provide the Total Contract Price for all maintenance services required to comply with Tab 2, Section 6.0 for all other ESS system components.
- 3.13.** For Item #12, upon completion of the new Scudders Falls facilities, the existing facility will be decommissioned and will no longer require maintenance services.
- 3.14.** For Items #13 to 17, the PROPOSER shall provide maintenance pricing based on the estimated completion dates for these projects. The PROPOSER shall assume all these projects are completed within years 1 to 3 and factor the maintenance of these devices into pricing for optional year 4 and 5.
- 3.15.** All items on Sheet 2A will be totaled to provide a Total Maintenance Cost of the ESS System for Years 1 thru 3.
- 3.16.** All items on Sheet 2B will be totaled to provide a Total Maintenance Cost of the ESS System for Optional Year 4.
- 3.17.** All items on Sheet 2C will be totaled to provide a Total Maintenance Cost of the ESS System for Optional Year 5.

4. COMPLETION OF SYSTEM ENHANCEMENTS SHEET 3

- 4.1.** The PROPOSER shall complete all items for all categories on Sheet 3 for all costs associated with the System Enhancements as described in Tab 2. The costs shall also include without limitation, all equipment, supplies, parts and materials, overhead, burden, profit, taxes, duties, fees, permits, licenses, warranties and other items necessary to meet the ESS CONTRACTOR contractual requirements.
- 4.2.** The System Enhancements sheet lists five (5) update groups as follows: Phase 1: Network Switches & NMS, Phase 2: UPS, Phase 3: Access Control at Toll-

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Supported Bridge Shelters, Phase 4: Communications and Power at I-78, Phase 5: Video Analytics.

- 4.3.** For each group, the PROPOSER shall provide the associated costs for each item. The items listed shall include all costs associated to furnish, install, configure hardware and software, testing, warranty, all required licenses to enable the hardware to become fully functional and integrated in the ESS System, training, documentation, including but not limited to, manufacturer's manuals and guides, project management, engineering and design and labor. Together these costs will represent the total update price for each group.
- 4.4.** The PROPOSER's Total Cost for System Enhancements shall be the sum of all costs for each of the five (5) Phases.

5. COMPLETION OF KEY STAFF AND POSITION CLASSIFICATION SHEET 4

- 5.1.** The PROPOSER shall complete Sheet 4 by providing the specific names and classification for the key staff required for this Contract. For each staff member include their billing rate. Extra space is provided for the PROPOSER to list additional staff and classifications the PROPOSER deems necessary to be successful. Labor rates covered under the Prevailing Wage Rates are covered under Tab 9.

6. COMPLETION OF UNIT PRICING SHEET 5

- 6.1** The PROPOSER shall complete Sheet 5 by providing the unit pricing for each item listed for each technology update group. The pricing of each item shall all inclusive combining any additional items, tasks, and costs that are not included but deemed necessary. In addition, the PROPOSER is to provide the monthly maintenance cost to add each item to the preventative maintenance schedule.



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TAB 5 AGREEMENT

Electronic Surveillance / Detection System (ESS)
Maintenance Contract

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**CONTRACT NO. DB-724A
CAPITAL PROJECT: 1801A**

AGREEMENT

Between

Delaware River Joint Toll Bridge Commission

&

[ESS CONTRACTOR]

_____, _____ [date]

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AGREEMENT

BETWEEN DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION AND _____.

THIS AGREEMENT is dated as of the _____ day of _____, 20____ by and between the Delaware River Joint Toll Bridge Commission (hereinafter called the COMMISSION) and _____ (hereinafter called ESS CONTRACTOR).

The COMMISSION and ESS CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1 WORK

1.01 ESS CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

- A. Design, furnish, install, migrate, upgrade, integrate and maintain the Electronic Surveillance / Detection System (ESS) for operation by the COMMISSION or its designee, to properly secure its various bridge structures, roadways, overpasses, underpasses, toll plazas and building facilities within its jurisdiction, as described in RFP Tab 2, Technical Requirements. The ESS encompasses integrated subsystems consisting of devices such as Video Management System (VMS); Access Control System (ACS); Video Analytics (VA); Monitoring at the Primary Control Center (PCC) and Secondary Control Center (SCC) and respective local workstations at bridge locations; Local Area Network (LAN) at each bridge location; and all associated components such cameras, access control, air conditioning, generator, UPS, KVM switches, etc.
- B. Maintenance of the existing and all new ESS system hardware, including optional equipment, for a period of three (3) years, with two (2) additional one (1) year options, as more fully described in RFP Tab 2, Technical Requirements and RFP Tab 4, Price Proposal Instructions.
- C. Design, Build and Maintain System Enhancements to the ESS as described in RFP Tab 2, Technical Requirements.

ARTICLE 2 THE PROJECT

2.01 The Project for which the Work under the Contract Documents may be the whole or only a part is described in the following sections of the Request for Proposals:

- Tab 1, Instructions to Proposers;
- Tab 2, Technical Requirements;
- Tab 3, Evaluation Criteria;
- Tab 4, Price Proposal Instructions;
- Tab 5, Agreement;
- Tab 6, General Conditions;
- Tab 7, Supplementary Conditions;

Tab 8, Proposal Forms;
Tab 9, Prevailing Wage Rate Provisions, and
Tab 10, Exhibits.

ARTICLE 3 CONTRACT TIMES

3.01 The ESS CONTRACTOR is required to achieve the following milestones:

A. Maintenance Services:

1. Start Maintenance Years 1-3: October 1, 2018
2. Start Maintenance Option Year 4: October 1, 2021
3. Start Maintenance Option Year 5: October 1, 2022

B. System Enhancements:

1. Phase 1: Network Switches and NMS Substantial Completion: Feb 1, 2019
2. Phase 2: UPS Substantial Completion: Feb 1, 2019
3. Phase 3: ACS at TSB Shelters Substantial Completion: Apr 1, 2019
4. Phase 4: I-78 Power and Communications Substantial Completion: Sep 30, 2019
5. Phase 5: Video Analytics Substantial Completion: Sep 30, 2019

- C. Substantially Complete shall mean that the ESS CONTRACTOR has successfully completed the Operational Acceptance Test (OAT) with all failures and comments properly addressed and results of the same have been accepted by the COMMISSION. Determination of the Substantial Completion date is independent of any work to be performed by the ESS CONTRACTOR or its Subcontractors and shall not be adjusted due to delays or failure by the ESS CONTRACTOR to complete its work in accordance with the Approved Project Schedule.
- D. Final Completion of Phases 1, 2, 3, 4 and 5 of the Work must be achieved in accordance with the Contract Documents within 45 calendar days after the Substantial Completion date of the respective Phase. Final Completion of Phases 1, 2, 3, 4 and 5 shall include completion of all requirements for System Enhancements including, but not limited to, as-built drawings and training.

3.02 Liquidated Damages

- A. The Maintenance services to be performed are set forth in RFP Tab 2, Technical Requirements, and Section 6 Maintenance Services. The ESS CONTRACTOR shall be required to meet Maintenance performance requirements that are detailed in RFP Tab 2, Technical Requirements Section 6.17. In addition to the COMMISSION'S other rights

and remedies, the COMMISSION may assess liquidated damages for failure to perform these maintenance services, including, but not limited to, system performance, availability and mean time between failures, as further described in RFP Tab 2, Technical Requirements, Section 6.17. A copy of the Repair Time Requirements and Liquidated Damages Schedule table is shown below.

Repair Time Requirements and Liquidated Damages Schedule		
Category	Repair Time	Damages/Hour
PCC/Hardware/Software Emergency Failure	8 hours	\$125.00
Hardware/Software Critical Failure	24 hours	\$100.00
Hardware/Software Critical Failure Requiring Traffic Restrictions	72 hours	\$100.00
WAN/Semi-Critical Failure	48 hours	\$100.00
Non-Critical Failure	72 hours	\$25.00
Non-Critical Failure Requiring Traffic Restrictions	120 hours	\$25.00

- B. The System Enhancements to be performed are set forth in RFP Tab 2, Technical Requirements, Section 2.2. While implementing the System Enhancements, the ESS CONTRACTOR is still responsible to maintain an operational system. Any downtime in excess of the COMMISSION pre-approved downtime for each Testing Requirements stage set forth in Tab 2, Section 5, shall be considered a Failure as specified under Section 6.17 and subject to the Repair Time Requirements and Liquidated Damages Schedule as shown above for Maintenance Services.
- C. Substantial completion of any of the System Enhancements after the substantial completion dates noted in in RFP Tab 1, Section 7 shall be subject to Liquidated Damages, as specified in the table below.

System Enhancements Liquidated Damages Schedule	
System Enhancement	Damages/Day
Phase 1: Network Switches and NMS	\$800
Phase 2: UPSs	\$800
Phase 3: ACS at TSB Shelters	\$800
Phase 4: I-78 Power and Communications Update	\$1950
Phase 5: Video Analytics	N/A

- D. The COMMISSION'S right to receive liquidated damages shall be in addition to all other rights and remedies available to the COMMISSION under the Contract Documents, at law or in equity.
- E. The COMMISSION shall have the right to deduct the total amount of liquidated damages for which the ESS CONTRACTOR may be liable under the Contract Documents from any payments then or thereafter due the ESS CONTRACTOR.
- F. The liquidated damages set forth in subparagraphs 3.02A through 3.02F, will not be as a penalty, but as Liquidated Damages. Notwithstanding any other provision to the contrary, the ESS CONTRACTOR and the ESS CONTRACTOR's Surety shall be jointly and severally liable for the liquidated damages assessed by the COMMISSION pursuant to subparagraphs 3.02A through 3.02F.
- G. In the event the ESS CONTRACTOR and/or the ESS CONTRACTOR's Surety litigates the validity of these liquidated damages provisions or the assertion of any liquidated damages by the COMMISSION, the ESS CONTRACTOR and the ESS CONTRACTOR's Surety, jointly and severally, shall also be liable for including, without limitation, legal fees (e.g., fees of attorneys, paralegals and other legal professionals), professional fees, costs, other expenses and/or damages incurred by the COMMISSION.

ARTICLE 4 CONTRACT PRICE

- 4.01 The COMMISSION shall pay ESS CONTRACTOR the following Contract Price for completion of the Work in accordance with the Contract Documents. The Contract Price shall be summarized in ESS CONTRACTOR's Fee Proposal and detailed in the Pricing Forms in RFP TAB 8, Proposal Forms. The Contract Price shall separately itemize the prices.

ITEM #	SCOPE ITEM	PRICE
1	Total Maintenance Services Year 1-3	
2	Total Maintenance Services Year 4 (optional)	
3	Total Maintenance Services Year 5 (optional)	
4	Total System Enhancements	
5	Unforeseen Work Allowance	
	Total Contract Cost	

- 4.02 The option for Option Years for Maintenance Services, presented as Items 2 and 3 in the above table, may be exercised at the sole discretion of the COMMISSION at any time during the Contract term, provided that notice of such intent to exercise is provided to the ESS CONTRACTOR no later than sixty (60) days prior to the completion of the term of the Contract in place at the time.
- 4.03 The Unforeseen Work Allowance, presented as Item 5 in the above table, shall be solely owned by the COMMISSION and as such the COMMISSION shall have sole discretion relating to the use of this predetermined allowance during the term of the Contract. Furthermore, any unused portion of the allowance shall be credited back to the COMMISSION via a deduct Change Order, reducing the overall value of the Contract Price accordingly.

ARTICLE 5 PAYMENT PROCEDURES

- 5.01 ESS CONTRACTOR shall submit and the COMMISSION will process Applications for Payment in accordance with Article 12 of the RFP Tab 6, General Conditions.
- A. *Progress Payments for System Enhancements; Retainage.* The COMMISSION shall make progress payments on account of the Contract Price for Sheet 1, Item 4 on the basis of ESS CONTRACTOR's Applications for Payment, during performance of the Work as provided in paragraph 5.01.A.1 below. All such payments will be measured by the acceptable Payment Schedule established in RFP Tab 6, Article 12 and further detailed in Tab 10 Exhibit A - Schedule of Payments.
1. Prior to Final Completion of the System Enhancements, progress payments equal to 90 percent of the Work completed will be made (with the balance being retainage), but, in each case, less the aggregate of payments previously made and less such amounts as COMMISSION may withhold in accordance with paragraph 12.04B of RFP Tab 6, General Conditions. However, if the Work has been 50 percent completed as determined by the COMMISSION, and if the character and progress of the Work have been completed in a manner satisfactory to the COMMISSION, the COMMISSION may determine that as long as the character and progress of the Work remain satisfactory to the COMMISSION, there will be no additional retainage on account of subsequent Work completed. Notwithstanding the foregoing, the COMMISSION may continue to withhold the funds that the COMMISSION retained prior to 50 percent completion until final payment to the ESS CONTRACTOR is due and owing.

- B. The COMMISSION shall release retainage within thirty (30) days immediately following the ESS CONTRACTOR achieving Final Completion for System Enhancements Phases 1, 2, 3, 4 and 5 as set forth in the RFP, including but not limited to, furnishing the COMMISSION with the Project Closeout Documentation required by RFP Tab 2, Technical Requirements, in a manner that is acceptable to the COMMISSION.
- C. *Payment for Maintenance Services.* Payments for Maintenance Services to the ESS CONTRACTOR shall commence based upon ESS CONTRACTOR's Applications for Payment on a monthly basis during performance of the Maintenance Services. The ESS CONTRACTOR shall be responsible for all Maintenance costs starting from October 1, 2018 or from Notice to Proceed whichever comes first.
- D. The COMMISSION expressly reserves its right to amend, modify, or supplement the terms and conditions of the Maintenance Services arrangements from time to time after execution of this Agreement pursuant to the terms and conditions of the Contract Documents.
- E. Notwithstanding anything else to the contrary in the Contract Documents, the three (3) year base term (including warranty and maintenance as specified in the Contract Documents) for the Maintenance of the ESS System shall commence on October 1, 2013, including services specified under the NTP, as further described in Paragraph 5.01 (c) of this RFP Tab 5, Agreement.

ARTICLE 6 ESS CONTRACTOR'S REPRESENTATIONS

6.01 ESS CONTRACTOR makes the following representations:

- A. ESS CONTRACTOR has examined and carefully studied the Contract Documents (including the Addenda) listed in paragraph 7.01 of this Agreement and the other related data identified in the Request for Proposals.
- B. ESS CONTRACTOR has visited the Site and has become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, performance, or furnishing of the Work.
- C. ESS CONTRACTOR is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, performance, or furnishing of the Work.
- D. ESS CONTRACTOR has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the Sites and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Sites which have been identified or made available by the COMMISSION.
- E. ESS CONTRACTOR has had sufficient time to examine the Sites of the Work; that it has examined the Sites of the Work; and that it has based the Contract Price on its own independent examination and investigation of the Sites.
- F. ESS CONTRACTOR is aware of the general nature of work to be performed by the

COMMISSION and others at the Site that relates to the Work as indicated in the Contract Documents.

- G. ESS CONTRACTOR has correlated the information known to ESS CONTRACTOR, information and observations obtained from visits to the Sites, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
- H. ESS CONTRACTOR has given the COMMISSION written notice of all conflicts, errors, ambiguities or discrepancies that ESS CONTRACTOR has discovered in the Contract Documents and the written resolution thereof by the COMMISSION is acceptable to ESS CONTRACTOR, and the Contract Documents are sufficient to indicate and convey an adequate understanding of all terms and conditions for performance and furnishing of the Work.
- I. ESS CONTRACTOR has given the COMMISSION written notice of any and all outstanding judgments that currently exist against ESS CONTRACTOR.
- J. ESS CONTRACTOR has duly executed and delivered this Agreement and such Agreement constitutes the legal, valid, and binding obligation of the ESS CONTRACTOR, enforceable against the ESS CONTRACTOR in accordance with its terms.
- K. ESS CONTRACTOR has not filed any petition in bankruptcy, whether, voluntary or involuntary and the ESS CONTRACTOR is not in bankruptcy, insolvency, receivership, reorganization, or other proceedings or upon an assignment for the benefit of creditors or any other marshalling of the assets and liabilities of the Company.

ARTICLE 7 CONTRACT DOCUMENTS

- 7.01 The Contract Documents, which comprise the entire agreement between the COMMISSION and ESS CONTRACTOR concerning the Work, consist of the following:
 - A. This Agreement;
 - B. The COMMISSION'S Request for Proposal and Addenda;
 - C. ESS CONTRACTOR's Proposal. See Exhibit A;
 - D. Notice to Proceed. See Exhibit B;
 - E. Performance, Payment, Maintenance and other Bonds, identified as Exhibits C through E;
 - F. General Conditions of the Contract between the COMMISSION and ESS CONTRACTOR;
 - G. Supplementary Conditions;

H. The following which may be delivered, prepared, or issued after the Effective Date of this Agreement and are not attached hereto.

1. All Written Amendments and other documents amending, modifying, or supplementing the Contract Documents pursuant to paragraph 3.03.A of RFP Tab 6, General Conditions.
2. Specifications as defined in Paragraph 1.01.A.55 of RFP Tab 6, General Conditions.
3. Drawings as defined in Paragraph 1.01.A.23 of RFP Tab 6, General Conditions.
4. All documents required to be delivered during the term of this Agreement as detailed in RFP Tab 2, Technical Requirements, including but not limited to Design documents, test plans, operations plans, project management plans, and schedules, etc.

I. In the case of a conflict, inconsistency, or discrepancy between and/or within the Contract Documents, the Drawings and/or Specifications not clarified by Addendum, the better quality or greater quantity of Work shall be provided by the ESS CONTRACTOR in accordance with the COMMISSION'S interpretation.

J. In the event of conflicts, inconsistencies, or discrepancies among the Contract Documents which cannot be resolved in accordance with Paragraph 7.01(I) of this Agreement, interpretations will be based on the following order of priorities:

1. Agreement;
2. Addenda – Only formal written Addenda issued by THE COMMISSION will be binding (those of later date have precedence);
3. General Conditions;
4. Supplementary Conditions;
5. COMMISSION'S Request for Proposals; and
6. ESS CONTRACTOR's Proposal.

7.02 If noted, the documents listed in paragraph 7.01 above are attached to this Agreement.

7.03 The Contract Documents also consist of the documents listed in the definitions of "Contract Documents" in RFP Tab 6, General Conditions. The Contract Documents may only be amended, modified, or supplemented as provided in paragraph 3.03.A of RFP Tab 6, General Conditions.

ARTICLE 8 MISCELLANEOUS

8.01 The Standard General Conditions of the Contract between the COMMISSION and ESS

CONTRACTOR are referred to herein as the General Conditions.

- 8.02. Terms used in this COMMISSION-ESS CONTRACTOR Agreement which are defined in Article 1 of RFP Tab 6, General Conditions will have the meanings indicated therein.
- 8.03. No assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.
- 8.04. The COMMISSION and ESS CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect to all covenants, agreements and obligations contained in the Contract Documents.
- 8.05. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the COMMISSION and ESS CONTRACTOR, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.
- 8.06. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument.
- 8.07. The COMMISSION and the ESS CONTRACTOR hereby knowingly, voluntarily, intentionally and mutually waive trial by jury in respect of any civil litigation based on the ESS CONTRACTOR's Work or arising out of, under or in connection with the ESS CONTRACTOR'S Work or any course of conduct, course of dealing, statements (verbal or written), or actions by them. In the event the parties are required for any reason to submit any such dispute to trial, the parties expressly agree to waive the right to a jury trial, because the parties, all of whom are represented by counsel, believe that the complex commercial and professional aspects of their dealing with one another make a jury determination neither desirable nor appropriate.

[signature page follows]

IN WITNESS WHEREOF, the COMMISSION and ESS CONTRACTOR have signed this Agreement. All portions of the Contract Documents have been signed, initialed, or identified by the COMMISSION and ESS CONTRACTOR.

This COMMISSION-ESS CONTRACTOR Agreement will be effective on _____, 20____.

ATTEST:

DELAWARE RIVER JOINT TOLL BRIDGE
COMMISSION:

[SEAL]

Wendy Vadola Reading, Assistant Secretary

By: _____

Joseph J. Resta, Executive Director

ATTEST:

ESS CONTRACTOR:

By: _____

[SEAL]

Name: _____

Name: _____

Title: _____

Title: _____

(ESS CONTRACTOR should attach evidence
of authority to sign.)

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**TAB 6
GENERAL CONDITIONS**

**Electronic Surveillance / Detection System (ESS)
Maintenance Contract**

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ARTICLE 1. DEFINITIONS

1.01 DEFINED TERMS

A. Wherever used in these General Conditions or in the other Contract Documents the following terms have the meanings indicated which are applicable to both the singular and plural thereof:

1. *Addenda*--Written or graphic instruments issued prior to the opening of Proposals which clarify, correct, or change the Request for Proposals or the Contract Documents.
2. *Agreement*--The written contract between COMMISSION and ESS CONTRACTOR covering the Work and the other Contract Documents, attached to the Agreement and made a part thereof as provided therein, including, but not limited to, the Software License Agreement and Software Escrow Agreement, as the same may be amended, modified, supplemented or restated from time to time pursuant to the terms and conditions of this Agreement. The term "Agreement" and "Contract" may be used interchangeably.
3. *Application for Payment*--The form furnished by the COMMISSION which is to be used by ESS CONTRACTOR in requesting milestone, progress or final payments and which is to include an affidavit of the ESS CONTRACTOR that milestone or progress payments theretofore received by the COMMISSION on account of the Work have been applied by the ESS CONTRACTOR to discharge in full all of the ESS CONTRACTOR's obligations incurred in connection with the Work covered by all prior applications for payment.
4. *Approve*--The term "Approve" and its variations (e.g., "Approval") when capitalized in this Agreement refer to the COMMISSION's acceptance for its own internal purposes. The COMMISSION's Approval shall not be construed to mean the COMMISSION's endorsement or assumption of liability. No other person or entity including, without limitation, the ESS CONTRACTOR may treat or rely upon the COMMISSION's Approval in a manner inconsistent with this definition.
5. *Asbestos*--Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.
6. *As-Built Drawings*--The drawings prepared, signed and sealed by the ESS CONTRACTOR and submitted and Approved in writing by the COMMISSION as prepared after the completion of the Construction on the Project that illustrate the actual Construction of the Project, including, without limitation, all changes to the Work.
7. *Bonds*--The Proposal bond, performance bond, payment bond and maintenance bond attached to the Agreement and made a part thereof as provided therein and

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such other instruments of security which may be required by the Contract Documents.

8. *Cash Flow Projection*--A schedule prepared by ESS CONTRACTOR estimating that portion of the Contract Price to be due during each month of performance.
9. *Change Order*--A written order which is signed by Executive Director and issued by the COMMISSION's ENGINEER to the ESS CONTRACTOR after execution of the Contract authorizing one or more of the following: changes in the Work, adjustments in the basis of payment for the Work affected by the changes, or adjustment in the Contract Time.
10. *COMMISSION*--The Delaware River Joint Toll Bridge Commission, party to the Contract, a body corporate and politic, that was created as a bi-state agency by an agreement between the Commonwealth of Pennsylvania and the State of New Jersey executed on December 19, 1934 by the Governor of the Commonwealth of Pennsylvania and executed on December 18, 1934 by the Governor of the State of New Jersey, as thereafter supplemented, modified and amended by supplemental agreements between the Commonwealth of Pennsylvania and the State of New Jersey.
11. *COMMISSION's Consultant*--An individual or entity having a contract with COMMISSION to furnish services as COMMISSION's consultant with respect to the Project.
12. *COMMISSION's ENGINEER*--The Chief Engineer of the COMMISSION and/or its designee.
13. *COMMISSION's REPRESENTATIVE*--A person designated in writing to act as COMMISSION's representative with respect to ESS CONTRACTORS performance of the Work. Such person shall have complete authority to transmit instructions, receive information, interpret and define COMMISSION's policies, make decisions with respect to performance of the Work and provide such services as may be directed by the COMMISSION.
14. *Construction*--The term Construction, as used herein, shall have the same meaning as the term "Work" and the two terms may be used interchangeably.
15. *Consultant*--An individual or entity having a contractual relationship, whether direct or indirect, with the ESS CONTRACTOR for the performance of a part of the Work, including, without limitation, any Engineer or Subcontractor retained by the ESS CONTRACTOR.
16. *Contract Documents*--The Non-Collusion Affidavit, Certificate of Eligibility, Certificate of Compliance with Affirmative Action Program, Certificate of Compliance with Insurance Requirements, Technical Requirements, Evaluation Criteria, Price Proposal Instructions, Forms, General Release and Indemnification Agreement, Confidentiality Statement, Waiver of Liens, Bonds, Instructions to Proposers,

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Agreement, these General Conditions, the Supplementary Conditions, Addenda (which pertain to the Contract Documents), ESS CONTRACTOR's Proposal, the Notice to Proceed, Prevailing Wage Rates, the Specifications and the Drawings together with all Work Change Directives, Change Orders, Written Amendments, and Field Orders, issued on or after the Effective Date of the Agreement. The Contract Documents also include the COMMISSION's Request for Proposals and those documents specifically identified by the COMMISSION in the Request for Proposals.

17. *Contract Price*--The moneys payable by COMMISSION to ESS CONTRACTOR for completion of the Work in accordance with the Contract Documents.
18. *Contract Times*--The numbers of days or the dates stated in the Agreement (i) to achieve Substantial Completion, and (ii) to complete the Work so that it is ready for final payment in accordance with paragraph 12.08.A.
19. *Defective*--An adjective which when modifying the term Construction refers to Construction that is unsatisfactory, faulty or deficient, in that it does not conform to the Contract Documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the Contract Documents, or has been damaged prior to COMMISSION's final payment (unless responsibility for the protection thereof has been assumed by COMMISSION at Substantial Completion).
20. *ESS CONTRACTOR*--The person, firm, corporation, or entity undertaking the execution of the Work under the terms of the Agreement and with whom COMMISSION has entered into the Agreement.
21. *Design*--All aspects of design relating to the Project as forth in additional detail in the Contract Documents, including but not limited to, RFP Tab 2, Technical Requirements.
22. *Design Professional Services* -- Services related to the preparation of Drawings, Specifications, and other design submittals specified by the Contract Documents and required to be performed by licensed design professionals, as well as services provided by or for licensed design professionals during bidding/negotiating, Construction, Test or closeout phases.
23. *Drawings*--Those portions of the Contract Documents prepared by or for ESS CONTRACTOR and Approved by COMMISSION consisting of drawings, diagrams, illustrations, schedules and other data which show the scope, extent, and character of the Work.
24. *Effective Date of the Agreement*--The date indicated in the Agreement on which it becomes effective, but if no such date is indicated it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.
25. *Engineer*--A duly licensed individual or entity (licensed in the state/states where the Work is being performed) designated by ESS CONTRACTOR to perform or furnish

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specified Design Professional Services in connection with the Work.

26. *Executive Director*--The Executive Director of the COMMISSION.
27. *Existing ESS System*--The ESS system currently in operation at the COMMISSION, which includes all required interfaces.
28. *Field Order*--A written order issued by COMMISSION's ENGINEER or the COMMISSION Engineer's designee which clarifies or interprets the Contract Documents or orders minor changes in the Work, but which does not involve a change in the Contract Price or the Contract Times.
29. *Final Design*--Those portions of the Contract Documents prepared by the ESS CONTRACTOR and Approved by the COMMISSION which represent one hundred percent (100%) design for the Project.
30. *Hazardous Condition*--The presence at the Site of Asbestos, lead-based paint, Hazardous Waste, PCB's, Petroleum products or Radioactive Materials in such quantities or circumstances that there is a danger to persons or property.
31. *Hazardous Waste*--The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903), as amended from time to time.
32. *Indemnified Parties*--The term Indemnified Parties means the COMMISSION, the Commonwealth of Pennsylvania, the State of New Jersey and all of their respective commissioners, directors, officers, partners, members, employees, agents, consultants, representatives, licensees, assigns, and affiliates and anyone directly or indirectly employed by any of them.
33. *Laws and Regulations; Laws or Regulations*--Any and all applicable laws, rules, regulations, ordinances, codes and orders of any and all governmental bodies, agencies, authorities and courts having jurisdiction.
34. *Liens*--Charges, security interests, or encumbrances upon real property or personal property.
35. *Maintenance*--The maintenance and related services required to be furnished by the ESS CONTRACTOR pursuant to the Contract Documents.
36. *Milestone*--A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work and which may be associated with a payment.
37. *Modification*--(a) A written amendment of the Contract Documents signed by both parties; (b) a Change Order; (c) a written clarification or interpretation issued by the COMMISSION's ENGINEER in accordance with the Contract Documents; or (d) a written order for a minor change or alteration in the Work issued by the COMMISSION's ENGINEER. A Modification may only be issued after execution of

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the Agreement.

38. *Notice of Award*--The written notice by COMMISSION to the apparent successful PROPOSER stating that upon compliance by the apparent successful PROPOSER with the conditions precedent enumerated therein and in the Contract Documents, within the time specified, COMMISSION will sign and deliver the Agreement.
39. *Notice to Proceed*--A written notice given by COMMISSION to ESS CONTRACTOR fixing the date on which the Contract Times will commence to run.
40. *Operational*--The term "Operational" refers to successful completion of the Commissioning described in RFP Tab 2, Technical Requirements for each applicable Project phase.
41. *PCBs*--Polychlorinated biphenyls.
42. *PennDOT Publication*--Whenever a PennDOT Publication is referred to in the Contract Documents, including, without limitation, PennDOT Publication 408/2003, such reference shall refer to the applicable PennDOT Publication, as amended by the COMMISSION.
43. *Petroleum*--Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Wastes and crude oils.
44. *Phase 1*-- Includes supply and installation of ESS Network Switches & Network Management System (NMS) Software.
45. *Phase 2* -- Includes supply and installation of ESS UPS.
46. *Phase 3* -- Includes supply and installation of ACS at Bridge Shelters.
47. *Phase 4* -- Includes supply and installation of Communications and Power Connections Update for I-78 Devices
48. *Phase 5* -- Includes supply and installation of Video Analytics.
49. *Predetermined Amount (PDA)*--An allowance provided for work to be done in support of this Contract in the form of a Subcontract to the ESS CONTRACTOR.
50. *Project*--The total Design, Integration, Construction, Installation, Testing and Maintenance, of which the Design, Integration, Construction, Installation, Testing and Maintenance to be provided under the Contract Documents may be the whole, or a part as indicated elsewhere in the Contract Documents.
51. *Project Acceptance*--The date on which the ESS CONTRACTOR completes all of the Work on the Project to the satisfaction of the COMMISSION, including, without limitation, the date on which the ESS CONTRACTOR completes all system tests

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required to demonstrate that the Project is complete in all respects, as determined by the COMMISSION, in its sole discretion, as evidenced by written notice from the COMMISSION to the ESS CONTRACTOR. The System tests, which the ESS CONTRACTOR is required to perform are set forth in the RFP Tab 2, Technical Requirements and the other Contract Documents.

52. *Project Closeout Documentation*--The documentation which the ESS CONTRACTOR is required to provide the COMMISSION pursuant to RFP Tab 2, Technical Requirements.
53. *Project Schedule*--The document, also referred to herein as "progress schedule", which details the COMMISSION approved sequence and timing of Project milestones, events and durations as set forth in Article 18 of RFP Tab 7, Supplementary Conditions and in Section 3.2 of RFP Tab 2, Technical Requirements.
54. *Proposal*--The documents submitted by ESS CONTRACTOR in response to the Request for Proposals setting forth the design concepts, proposed prices, and other conditions for the Work to be performed.
55. *Radioactive Material*--Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.), as amended from time to time.
56. *Request for Proposals*--The documents prepared by or for COMMISSION specifying and describing COMMISSION's objectives and the procedure to be followed in preparing and submitting a Proposal and awarding a contract.
57. *Site*--Lands or other areas designated in the Contract Documents as being furnished by COMMISSION for the performance of the Construction, storage, or access.
58. *Specifications*--Those portions of the Contract Documents prepared by or for ESS CONTRACTOR and Approved by the COMMISSION consisting of written technical descriptions of materials, equipment, Construction systems, standards and workmanship as applied to the Construction and certain administrative details applicable thereto which set out or relate to the method and manner of performing the Work, or to the quantities and qualities of materials and labor to be furnished by the ESS CONTRACTOR.
59. *Subcontractor*--A person, firm, corporation or entity other than a Supplier having a direct contract with ESS CONTRACTOR or with any other Subcontractor to supply equipment, labor and/or materials for the performance of a part of the Work.
60. *Submittal*--A written or graphic document prepared by or for ESS CONTRACTOR which is required by the Contract Documents to be submitted to COMMISSION by ESS CONTRACTOR. Submittals may include, without limitation, Drawings, Specifications, progress schedules, shop drawings, samples, Cash Flow Projections, and Schedules of Values. Submittals other than Drawings and

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Specifications are not Contract Documents.

61. *Substantial Completion*--The date as certified by the COMMISSION's ENGINEER when the Construction (or a specified part) has progressed to the point where the Work required by the Contract Documents is installed and Operational, in accordance with the Contract Documents, so that the Construction (or a specified part) can be utilized for the purposes for which it is intended. The terms "Substantially Complete" and "Substantially Completed" as applied to all or part of the Construction refer to Substantial Completion thereof. Substantial Completion is not considered achieved until Commissioning has been approved by the COMMISSION.
62. *Supplementary Conditions*--The part of the Contract Documents which supplements these General Conditions.
63. *Supplier*--A manufacturer, fabricator, supplier, distributor, materialman or vendor having a direct contract with ESS CONTRACTOR or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by ESS CONTRACTOR or any Subcontractor.
64. *Surety*--The firm, corporation, or entity which is bound with and for the ESS CONTRACTOR for acceptable performance of the Work and for the payment of all debts pertaining to the Work.
65. *System*--The combination of all components, elements, equipment, software, firmware, hardware and other items of Work provided by the ESS CONTRACTOR in order to operate the Electronic Surveillance and Detection System (ESS) in accordance with the requirements of RFP Tab 2, Technical Requirements and Contract Documents, which is also a part of the Work.
66. *ESS System*-- The combination of all components, elements, equipment, software, firmware, hardware and other items of Work provided by the ESS CONTRACTOR in order to migrate and upgrade the existing ESS System including Wide Area Network system, workstations, application servers, domain controllers in accordance with the requirements of Tab 2 Technical Requirements and Contract Documents, which is also a part of the Work.
67. *Unit Price Work*--Work to be paid for on the basis of unit prices.
68. *Work*--The term Work, as used herein, includes all work which, in the judgment of the COMMISSION's ENGINEER, is necessary for completion of the construction and the Project under the Contract Documents and includes, without limitation, all plant, labor, materials, equipment, systems and software and other facilities, installation, testing, operations and maintenance and other things necessary or proper for or incidental to the carrying out and completion of the terms of the Contract Documents. Furthermore, without limiting the generality of the foregoing, the Work includes and is the result of performing or furnishing Design Professional Services and construction required by the Contract Documents.

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69. *Work Change Directive*--A written directive to ESS CONTRACTOR, issued on or after the Effective Date of the Agreement and signed by COMMISSION ordering an addition, deletion or revision in the Work, or responding to differing Site conditions under which the Work is to be performed as provided in paragraph 4.02 of these General Conditions or to emergencies under paragraph 6.18 of these General Conditions. A Work Change Directive will not change the Contract Price or the Contract Times, but is evidence that the parties expect that the change directed or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract Times.
70. *Written Amendment*--A written amendment of the Contract Documents, signed by COMMISSION and ESS CONTRACTOR on or after the Effective Date of the Agreement and normally dealing with the non-engineering or non-technical rather than strictly design or Construction-related aspects of the Contract Documents.

ARTICLE 2. PRELIMINARY MATTERS

2.01 DELIVERY OF BONDS

- A. When the apparent successful PROPOSER delivers three (3) executed originals of the Agreement to COMMISSION, the apparent successful PROPOSER shall also deliver to COMMISSION such Bonds as may be required to be furnished in accordance with paragraph 5.01.A. The apparent successful PROPOSER shall furnish the COMMISSION with the executed Agreement, Bonds, other Contract Documents and Certificates of Insurance within ten (10) days of the Notice of Award. Failure of the apparent successful PROPOSER to deliver the executed Agreement, Bonds, other Contract Documents, Certificates of Insurance or other documents required by the Contract Documents within the prescribed period may be just cause for the COMMISSION to declare the Proposal and any Proposal bond therefor forfeited. The COMMISSION may, in its sole discretion, award the Agreement to said apparent successful PROPOSER, following receipt of said properly executed documents.

2.02 COMMENCEMENT OF CONTRACT TIMES; NOTICE TO PROCEED

- A. The Contract Times will commence on the day indicated in the Notice to Proceed.

2.03 STARTING THE WORK

- A. ESS CONTRACTOR shall start to perform the Work on the date when the Contract Times commence to run.

2.04 BEFORE STARTING DESIGN:

- A. ESS CONTRACTOR shall submit the following for review within five (5) days after commencement of the Contract Times:

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1. A Project Schedule indicating the times (numbers of days or dates) for starting and completing the various phases of the Work including, without limitation, each Milestone specified in the Contract Documents; as amended, conformed and agreed-to by the COMMISSION during negotiations.
2. A schedule of required Submittals and the times for submitting, reviewing and processing each Submittal; as amended, conformed and agreed-to during negotiations.
3. The finalized payment schedule (RFP Tab 10, Exhibit 10-A), as amended and conformed and agreed-to by the COMMISSION during negotiations.
4. A preliminary Cash Flow Projection, if requested in advance by the COMMISSION.
5. Before any Work is started, ESS CONTRACTOR shall deliver certificates of insurance (and other evidence of insurance which the COMMISSION may reasonably request) which the ESS CONTRACTOR is required to purchase and maintain in accordance with Paragraph 5.02 of these General Conditions.

2.05 INITIAL CONFERENCE

- A. Within seven (7) calendar days after the Contract Times start to run a conference attended by COMMISSION and ESS CONTRACTOR and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the design concepts, review submittal and Project Schedule referred to in paragraph 2.04.A, procedures for handling Submittals, processing Applications for Payment, maintaining required records, and other project management and administration matters.

2.06 INITIALLY ACCEPTABLE SCHEDULES

- A. At the initial conference the COMMISSION and ESS CONTRACTOR will review the detail and acceptability of the Project Schedule submitted in accordance with paragraph 2.04.A. Notwithstanding the foregoing the ESS CONTRACTOR shall make no changes to milestones that are inconsistent with the previously agreed to Project Schedule or milestones set forth in the RFP. The COMMISSION shall have seven (7) calendar days following the conference to review and comment on the submitted schedule. The ESS CONTRACTOR shall have an additional seven (7) calendar days to make corrections and adjustments and to complete and resubmit the schedule. No progress payment associated with the delivery of the schedule or payment for any subsequent milestones shall be made to ESS CONTRACTOR until the schedule is submitted to and Approved by COMMISSION as provided below. The Project Schedule shall provide an orderly progression of the Work to completion within any specified Milestones and the Contract Times. Approval by the COMMISSION will neither impose on the COMMISSION responsibility for the sequencing, scheduling, or progress of the Work nor interfere with or relieve the ESS CONTRACTOR from ESS CONTRACTOR's full responsibility therefor. The format and structure of the Progress Schedule will be as set forth in the Contract Documents. COMMISSION's Approval shall not be deemed to confirm that the schedule is a reasonable plan for

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performing the Work. ESS CONTRACTOR's schedule of Submittals must be Approved by COMMISSION as providing a workable arrangement for reviewing and processing the required Submittals. ESS CONTRACTOR's Payment Schedule, and Cash Flow Projection (if cash flow projection is required) must be Approved by the COMMISSION in writing as to form and substance.

ARTICLE 3. CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE

3.01 INTENT

- A. The Contract Documents comprise the entire agreement between COMMISSION and ESS CONTRACTOR concerning the Work. The Contract Documents are complementary; what is called for by one is as binding as if called for by all. The Contract Documents will be construed in accordance with the laws of the Commonwealth of Pennsylvania, without regard to principles of conflicts of law.
- B. Addenda shall only amend the terms and conditions of the other Contract Documents to the extent that the Addenda identify the specific section or portion of the Contract Documents that are amended.
- C. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be designed and constructed in accordance with the Contract Documents. Any Work, materials or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be furnished and performed whether or not specifically called for. When words or phrases which have a well-known technical or Construction industry or trade meaning are used to describe Work, materials or equipment, such words or phrases shall be interpreted in accordance with that meaning.
- D. Each and every Law and Regulation applicable to the Project and the Work required by law to be inserted in these Contract Documents shall be deemed to be inserted herein, and the Contract Documents shall be read and enforced as though it were included herein. If, through mistake or otherwise, any such provision is not inserted or is not correctly inserted, then, upon the application of either party, the Contract Documents shall forthwith be altered to make such insertion.

3.02 REFERENCES

- A. Reference to standards, specifications, manuals or codes of any technical society, organization or association, or to the Laws or Regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard, specification, manual, code or Laws or Regulations in effect on the last day for receipt of Proposals except as may be otherwise specifically stated in the Contract Documents.

3.03 AMENDING AND SUPPLEMENTING CONTRACT DOCUMENTS

- A. The Contract Documents may be amended to provide for additions, deletions and revisions

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in the Work or to modify the terms and conditions thereof in one or more of the following ways:

1. COMMISSION's Approval of required Submittals (pursuant to paragraph 6.19);
2. A Work Change Directive;
3. A Change Order;
4. A formal Written Amendment; or
5. A Field Order.

3.04 WORK TO BECOME THE PROPERTY OF THE COMMISSION

- A. All notes, Designs, Drawings, Specifications, manuals and other technical data of the ESS CONTRACTOR, as well as job related records and other data including, without limitation, electronic data, concerning the Work performed under this Agreement shall become the property of the COMMISSION and the COMMISSION shall have the right to use all or any part thereof for any purpose, including, without limitation, the Construction, supervision, design, Operations or Maintenance of the Toll System, without additional cost to the COMMISSION. All of the foregoing items shall be delivered to the COMMISSION whenever requested by it, and, in any event upon the earlier of completion of the Work hereunder or termination of the Contract Documents.

ARTICLE 4. AVAILABILITY OF LANDS; DIFFERING SITE CONDITIONS; REFERENCE POINTS; HAZARDOUS CONDITIONS

4.01 AVAILABILITY OF LANDS

- A. The ESS CONTRACTOR may need to provide additional lands for access, temporary construction facilities, or storage of materials and equipment. It is the ESS CONTRACTOR's responsibility to obtain all necessary temporary easements for the Project. The ESS CONTRACTOR shall not utilize any lands until ESS CONTRACTOR shall place on file with the COMMISSION a written agreement, executed by the property owner and the ESS CONTRACTOR, which shall clearly state the terms and conditions under which the ESS CONTRACTOR has obtained permission or right to such use. Filing of such agreement with the COMMISSION shall not affect or imply enforcement of agreement terms and conditions by the COMMISSION. In the event that ESS CONTRACTOR is unable to acquire a necessary temporary easement, or if a permanent easement is required, the ESS CONTRACTOR shall communicate this need in writing to the COMMISSION. The COMMISSION shall be responsible for acquiring any permanent easements for the Project.

4.02 DIFFERING SITE CONDITIONS

- A. During the progress of the Work, if subsurface or latent physical conditions, differing materially from those indicated, are encountered at the Site, or if unknown physical

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conditions of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in the Work, are encountered at the Site, the party discovering such conditions is responsible for promptly notifying the other party, in writing, of the specific differing conditions, before the Site is disturbed and before the affected work is performed.

- B. Upon written notification, the COMMISSION's ENGINEER will investigate the conditions, and if it is determined that the conditions materially differ and cause an increase or decrease in the Contract Price or Contract Times required for the performance of any Work under the Contract, an adjustment, excluding loss of anticipated profits, will be made as specified in Article 9 of these General Conditions. The COMMISSION's ENGINEER will notify the ESS CONTRACTOR of the determination on whether or not an adjustment of the Contract Price of Contract Times is warranted and the COMMISSION's ENGINEER's determination shall be final and binding on the ESS CONTRACTOR.
- C. No contract adjustment which results in a benefit to the ESS CONTRACTOR will be allowed unless the ESS CONTRACTOR has provided the required written notice.
- D. No contract adjustment will be allowed under this section for any effects caused on unchanged Work.
- E. The provisions of paragraph 4.02 are not intended to apply to materials uncovered or revealed at the Site which are or could be a Hazardous Condition.

4.03 REFERENCE POINTS

- A. ESS CONTRACTOR shall be responsible for laying out the Construction and shall protect and preserve the reference points and property monuments established by COMMISSION and shall make no changes or relocations without the prior written direction of COMMISSION. ESS CONTRACTOR shall report to COMMISSION whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.04 HAZARDOUS CONDITIONS

- A. COMMISSION will be responsible for any Hazardous Condition encountered at the Site which was not identified in the Contract Documents to be within the scope of the Work. COMMISSION shall not be responsible for materials creating a Hazardous Condition brought to the Site by ESS CONTRACTOR, Subcontractors, Suppliers or anyone else for whom ESS CONTRACTOR is responsible.
- B. In the event a Hazardous Condition is identified ESS CONTRACTOR and any affected Subcontractor shall immediately (i) stop all Construction in connection with such Hazardous Condition and in any area affected thereby (except in an emergency as required by paragraph 6.18), and (ii) notify COMMISSION (and thereafter confirm such notice in writing). COMMISSION shall notify ESS CONTRACTOR when such Hazardous Condition is

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removed or appropriately mitigated or contained. If COMMISSION and ESS CONTRACTOR cannot agree as to entitlement to or the extent of an adjustment, if any, in Contract Times as a result of such Construction stoppage or such special conditions under which Construction is agreed by ESS CONTRACTOR to be resumed, the ESS CONTRACTOR's sole remedy, if any, is to request an extension of the Contract Times in accordance with Article 10. Notwithstanding the foregoing, the ESS CONTRACTOR shall not be entitled to avail itself of the remedies set forth in this Paragraph 4.04 in the event that the materials uncovered or revealed at the Site are identified in the Contract Documents.

ARTICLE 5. BONDS AND INSURANCE

5.01 PROPOSAL, PERFORMANCE, PAYMENT AND OTHER BONDS

- A. Performance and Payment Bond – ESS CONTRACTOR shall furnish performance and payment bonds, each in an amount equal to the Contract Price for the ESS System Acquisition and Implementation as security for the faithful performance and payment of all ESS CONTRACTOR's obligations to furnish, provide and pay for Design, Construction, and related materials under the Contract Documents. The performance and payment bonds shall remain in effect at least until one year after the date when final payment becomes due, except as provided otherwise by Laws or Regulations or by the Contract Documents. ESS CONTRACTOR shall also furnish such other Bonds as are required by the Contract Documents. All Bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by a Surety registered in the Commonwealth of Pennsylvania and the State of New Jersey. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act, and shall be on the form attached to the Agreement.
- B. Maintenance Bond – ESS CONTRACTOR shall furnish a Maintenance Bond at the earlier of Approval of the Operational Test or upon the COMMISSION's Approval of the Commissioning. The Maintenance Bond shall be in the amount of 100% of the annual value of the Maintenance portions of the Contract, such Maintenance Bond to be renewed annually for the duration of the Maintenance portion of the Contract. The Maintenance Bond signed by an agent must be accompanied by a certified copy of such agent's authority to act, and shall be on the form attached to the Agreement.
- C. If the Surety on any Bond furnished by ESS CONTRACTOR is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of paragraph 5.01.A, ESS CONTRACTOR shall within thirty days thereafter substitute another Bond and Surety meeting the requirements of paragraphs 5.01 and 5.04.
- D. The insurance carriers from whom the ESS CONTRACTOR has purchased Bonds must be listed in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in current Circular 570 by the Audit Staff Bureau of Accounts, U.S. Treasury Department and the amount of said Bonds in question must not exceed the acceptable limit therein

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recommended for such Bonds.

5.02 INSURANCE REQUIREMENTS

NOTE TO CONTRACTORS: CONTRACTORS ARE REQUIRED TO SUBMIT A SIGNED AND NOTARIZED LETTER FROM THEIR INSURANCE BROKER/AGENT STATING COMPLIANCE WITH THESE INSURANCE REQUIREMENTS AS NOTED UNDER THE "CERTIFICATE OF INSURANCE" HEADING OF THESE INSURANCE REQUIREMENTS.

Prior to commencement of any work under the Contract and until final completion and final payment is made for the work under the Contract (unless otherwise stated herein), Contractor (hereinafter the "Covered Party") shall, at its sole expense, maintain the following insurance on its own behalf, with an insurance company or companies having an A.M. Best Rating of A-: Class VII or better, and furnish to the Commission Certificates of Insurance evidencing same.

Notwithstanding anything herein to the contrary, if any part of the work under this Contract is to be performed by a subcontractor, sub-subcontractor and/or agent of the Covered Party, the Covered Party (as applicable) shall be responsible for each subcontractor, sub-subcontractor and/or agent maintaining insurance or, in the alternative, maintaining insurance on behalf of each subcontractor, sub-subcontractor and/or agent, as specified in, and in accordance with, the paragraphs below. The Contract that the Commission is entering is solely with the Covered Party and the Covered Party shall be solely responsible for all acts or failures to act of each of its subcontractors, sub-subcontractors and/or agents as if the actions or failures to act are the actions or failures to act of the Covered Party. The Covered Party expressly acknowledges and agrees that the Commission's willingness to enter into the Contract is premised on the Covered Party taking responsibility for, and indemnifying, defending and holding harmless the Commission from and against, the acts and failures to act of each of their respective subcontractors, sub-subcontractors and/or agents. Nothing herein shall otherwise limit or alter the Covered Party's obligation to seek prior approval of subcontractors, sub-subcontractors and/or agents from the Commission, as such requirement may be set forth in the Contract.

1. Workers Compensation and Employers Liability: in the state in which the work is to be performed and elsewhere as may be required and shall include:
 - a) Workers Compensation Coverage: In such amounts necessary to satisfy applicable statutory requirements
 - b) Employers Liability Limits not less than:

Bodily Injury by Accident:	\$100,000 each accident
Bodily Injury by Disease:	\$100,000 each employee
Bodily Injury by Disease:	\$500,000 policy limit
 - c) Waiver of Right to Recover from Others Endorsement (WC 00 0313) where permitted by state law (*PA only*).

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- d) U.S. Longshoremen's and Harbor Workers' and Maritime Coverages, where applicable.
2. Commercial General Liability: (including Premises - Operations, Independent Contractors, Products/Completed Operations, Broad Form Property Damage, Contractual Liability (including Liability for Employee Injury assumed under a Contract, i.e., any employee employment exclusions deleted), Personal Injury, and Explosion, Collapse and Underground Coverages).
- a) Occurrence Form with the following limits:
 - (1) General Aggregate: \$2,000,000
 - (2) Products/Completed Operations Aggregate: \$2,000,000
 - (3) Each Occurrence: \$1,000,000
 - (4) Personal and Advertising Injury: \$1,000,000
 - b) Products/Completed Operations Coverage must be maintained for a period of at least three (3) years following the final completion of the Contract.
 - c) The General Aggregate Limit must apply on a per location/per project basis.
 - d) No Professional Exclusion (if exclusion exists, must comply with Professional Liability Coverage Requirement, as set forth in the Professional Liability paragraph requirements below).
 - e) Policy must include endorsement CG 22 79 Exclusion-Contractors-Professional Liability (only applicable to design-build contracts procured in accordance with PennDOT Publication 448 and construction contracts where a licensed P.E. is required to be utilized by the Covered Party).
 - f) No Insured vs. Insured or "Cross Suits" Exclusion on the policy.
3. Automobile Liability including Physical Damage:
- Coverage to include:
- a) Per Accident Combined Single Limit \$1,000,000
 - b) All Owned, Hired and Non-Owned Vehicles
 - c) Contractual Liability Coverage (including Liability for Employee Injury assumed under a Contract),
 - d) Physical Damage Coverage must be included or self-insured as the Commission is not responsible for any property damage to the Covered Party's vehicles.

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4. Commercial Excess/Umbrella Liability:

- a) Occurrence Limit: \$5,000,000
- b) Aggregate Limit (where applicable): \$5,000,000
- c) Policy to apply excess of the Commercial General Liability, Commercial Automobile Liability and Employers Liability Coverages.
- d) No Insured vs. Insured or "Cross Suits" Exclusion on the policy.
- e) The Commercial Excess/Umbrella Liability Policy shall be following form.

5. Property of Covered Party:

All property, including, but not limited to, tools and equipment that the Covered Party has at the job site or is owned by the Covered Party is the responsibility of the Covered Party. The Commission assumes no responsibility for the protection, maintenance, or repair of any property that the Covered Party has at the job site or that is owned by the Covered Party, including, but not limited to, tools or equipment.

All materials required by the Contract that can be damaged, stolen, or lost, must be insured by the Covered Party as any partial payments made to the Covered Party are deemed to be payment for such materials. Proof of coverage, including the transportation risk, with applicable limits of insurance may be required by the Commission to be reflected on a Certificate of Insurance. The transportation risk must be included.

6. Professional Liability Coverage:

The following minimum Limit of Insurance shall be required:

\$5,000,000 Per Occurrence/Per Claim; \$5,000,000 Aggregate

Policy terms and conditions shall include, without limitation, the following:

- i) The policy shall contain no coverage exclusion for claims arising out of pollution conditions or environmental damage under this Contract, or the Contractor, its subcontractors, subconsultants, and/or agents rendering of, or failure to perform, professional services under this Contract and the absence of such coverage exclusion shall be denoted on the Covered Party's Certificate of Insurance.

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- ii) In addition, the policy shall contain no coverage exclusions for claims arising out of mold, asbestos, or silica under this Contract or as a result of the Contractor, its subcontractors, subconsultants, and/or agents performance or failure to perform under this Contract and the absence of such coverage exclusion shall be denoted on the Covered Party's Certificate of Insurance.
- iii) Furthermore, the policy shall contain no coverage exclusions for claims arising out of the means and methods of construction and the absence of such coverage exclusion shall be denoted on the Covered Party's Certificate of Insurance.

ADDITIONAL COVERAGES AS NEEDED

7. Pollution/Environmental Impairment Liability Coverage:

The following insurance shall be required for Contracts that involve the removal, transportation and/or disposal of hazardous materials. The Commission acknowledges that the scope of work of the Contract does not include the removal, transportation and/or disposal of hazardous materials.

- a) Limits of Insurance:
 - \$2,000,000 Per Occurrence/Per Claim
 - \$4,000,000 Per Occurrence/Per Claim – Policy Aggregate
- b) Claims Made coverage must be maintained for a period of at least three (3) years following the final completion of the Contract.
- c) The Commission, the Commonwealth of Pennsylvania and the State of New Jersey shall be added as an additional insured, and the policy shall contain no insured vs. insured exclusion.
- d) The pollution/environmental impairment liability insurance shall include coverage for, without limitation:
 - 1. Bodily injury and property damage to third parties
 - 2. Natural resource damages
 - 3. Pollution clean-up costs, including restoration or replacement costs
 - 4. Defense costs

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5. Fines, penalties and punitive damages
6. Transportation of waste material by or on behalf of the Covered Party
7. Disposal liability for pollution conditions on, at, under, or emanating from any disposal site, location or facility used by or on behalf of the Covered Party for disposal of waste.
8. Contractual Liability Coverage
9. Lead, Silica, Asbestos and Mold Coverages
10. Underground Storage Tank Coverage

All insurance coverage shall be maintained until all hazardous materials are disposed of in an EPA licensed disposal facility and federal, state and local environmental requirements and laws have been complied with, whether such compliance is the obligation of the Covered Party, subcontractors, the Commission or third parties.

All disposal facilities shall provide the Commission upon request and the Covered Party with written evidence that they are licensed EPA disposal facilities and that they maintain pollution liability insurance of not less than \$2,000,000 Per Occurrence/Per Claim, which covers all claims arising from the disposal facilities' handling and storage of hazardous materials. Pollution liability insurance for the transportation of the hazardous material shall be carried by the transporter with limits not less than \$2,000,000 Per Occurrence/Per Claim.

8. Watercraft Liability Insurance:

For those Covered Parties using WATERCRAFT, the following additional requirements apply:

The Covered Party shall procure and maintain during the term of this Contract, at their own expense, watercraft liability coverage with either Marine Liability, Protection & Indemnity Coverage, or the Boats Endorsement 24 12 11 85, or comparable endorsement, on the General Liability Coverage:

Limit of Insurance: \$1,000,000 Per Occurrence/Annual Aggregate

Policy shall be endorsed with a Waiver of Subrogation Endorsement.

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9. Riggers Liability Insurance:

For those Contracts that involve rigging (furnishing the material hoist service), Riggers Liability Insurance is to be supplied, either by separate policy or endorsement on the General Liability Policy.

Rigger's Liability Limit: \$2,000,000 Per Occurrence

10. Railroad Protective Liability Insurance:

Where construction is to be conducted within 50 feet of the railroad, the Covered Party shall be responsible to purchase Railroad Protective Liability coverage.

Deductibles and Self-Insured Retentions:

All deductibles and self-insured retentions are the sole responsibility of the Covered Party. All deductibles and self-insured retentions must be shown on the Certificate of Insurance. The Commission will not accept any self-insured retentions on the Covered Party's General Liability Insurance policy. However, on all other lines of insurance the Covered Party and/or its subcontractor, sub-subcontractor and agents shall not have a self-insured retention greater than \$50,000 without the prior written approval of the Commission, which approval shall be requested by the Covered Party no later than fifteen (15) days prior to the submission of its bid.

Financial Rating of Insurance Companies:

The Financial Rating of all Insurance Companies must meet the minimum A.M. Best Ratings of A-(Excellent); VII or better.

The Covered Party must notify the Commission of any change in the financial rating of its insurance carriers.

Primary Additional Insureds:

The Certificate of Insurance is to name the Commission, the Commonwealth of Pennsylvania and the State of New Jersey as ADDITIONAL INSUREDs on the General Liability, Automobile Liability and Excess/Umbrella Liability Coverages, and other liability coverages where required by this Contract, but only with respect to liability arising out of the operations performed by or on behalf of Covered party on behalf of the Commission where required by contract, allowed by law and subject to the policy terms and conditions.

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The Certificate of Insurance must confirm that, at a minimum, the Covered Party's General Liability policy is endorsed with either ISO Form #CG 2033 07 04, or both ISO Form #CG 20 10 07 04 **and** ISO Form #CG 20 37 10 01, or equivalent manuscript endorsement. The Covered Party **must** attach a copy of its additional insured endorsement(s) to its Certificate of Insurance.

The Certificate is also to indicate that the Covered Party's policies are **primary** and non contributory. The coverage offered to the Additional Insureds on the Covered Party's liability policies (including, without limitation, General Liability, Auto Liability, Pollution Liability (if applicable) and Excess/Umbrella Liability) shall be **primary** and non contributory coverage to any other coverage maintained by the Additional Insureds and shall not permit or require such other coverage to contribute to the payment of any loss.

Covered Party shall continue to maintain the Commission, the Commonwealth of Pennsylvania and the State of New Jersey as Additional Insureds for at least three (3) years following the final completion of the Contract.

30 Days Notice of Cancellation, Non-Renewal and Material Change:

Covered Party shall provide the Commission with written notice at least thirty (30) days prior to the cancellation, non-renewal (without replacement) or material reduction of coverage or limits of any policy of insurance referred to herein, and will indemnify the Commission for any loss suffered by the Commission to the extent that such loss is attributable to Covered Party's failure to provide such notice.

Waiver of Rights of Recovery and Waiver of Rights of Subrogation:

The Certificate of Insurance must evidence a Waiver of Recovery and Waiver of Subrogation in favor of the Commission and all Additional Insureds where applicable on all policies including Workers' Compensation and Employers Liability:

1. The Covered Party waives all rights of recovery against the Commission and all the additional insureds for loss or damage covered by any of the insurance maintained by the Covered Party pursuant to this Contract.
2. The Covered Party hereby waives, and shall cause its insurance carriers to waive, all rights of subrogation against the Commission and all the additional insureds for loss or damage covered by any of the insurance maintained by the Covered Party pursuant to this Contract.
3. If any of the policies of insurance required under this contract require an endorsement to provide for the waiver of subrogation set forth in b, above, then the named insureds of such policies will cause them to be so endorsed.

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Claims Made Policy Forms:

Should any of the required liability coverages be on a "Claims Made" Basis, coverage must be available for the duration of the Contract and for a minimum of three (3) years following the final completion of the Contract. In the event that such policies are cancelled or not renewed at any time, the Covered Party shall provide a substitute insurance policy with an inception date the same as the prior policy's cancellation date and the substitute insurance policy shall carry forward the same retroactive date as the cancelled policy to fill any gaps in coverage which may exist due to the cancellation or non-renewal of the prior "claims-made" policies. With respect to all "claims made" policies which are renewed, the Covered Party shall provide coverage retroactive to the date of commencement of work under this Contract.

Review of Insurance Requirements by the Covered Party's Insurance Representative:

The Covered Party WARRANTS that this Contract has been thoroughly reviewed by the Covered Party's insurance agent(s)/broker(s) or internal risk manager, who have been instructed by the Covered Party to procure the insurance coverage required by this Contract.

The amount of insurance provided in the aforementioned insurance coverages, shall not be construed to be a limitation of the liability on the part of the Covered Party or any of their subcontractors.

Any type of insurance or any increase in limits of liability not described above which the Covered Party requires for its own protection or on account of statute shall be its own responsibility and at its own expense.

The carrying of insurance described herein shall in no way be interpreted as relieving the Covered Party of any responsibility or liability under the Contract.

Certificate of Insurance:

Contemporaneously with the execution and delivery of the Contract, the Covered Party shall submit a signed and notarized letter from either the Covered Party's insurance broker/agent or the Covered Party's internal risk manager stating that the Covered Party's insurance policies meet all of the insurance coverages required by this Section 5.02

Prior to the commencement of work and/or the Commission making any payment under the Contract, the Covered Party shall file Certificates of Insurance and endorsements required hereby with the Commission that shall be subject to the Commission's approval of adequacy

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of protection and the satisfactory character of the insurer. The Certificates of Insurance should be mailed to the Commission within five (5) days of receipt of the Notice of Award, to the attention of the Chief Engineer, at 110 Wood and Grove Streets, Morrisville, Pennsylvania 19067, regardless of when work commences. A project description and job number must be shown on all Certificates of Insurance. The Covered Party's obligation to provide the insurance set forth herein shall not be waived by any failure to provide a Certificate of Insurance, the Covered Party's acceptance of a Certificate of Insurance showing coverage varying from these requirements or by the Covered Party's direction to commence work.

In the event the Covered Party enters the worksite or delivers or has delivered materials or equipment to the worksite without having first fully executed the Contract, then these insurance requirements and the indemnification provision contained within the Contract shall be deemed executed at the time of first entry to the worksite as if a duly authorized representative of the Covered Party executed the same by affixing a signature hereto.

In the event of a failure of the Covered Party to furnish and maintain said insurance and to furnish satisfactory evidence thereof, the Commission shall have the right (but not the obligation) to take out and maintain the same for all parties on behalf of the Covered Party who agrees to furnish all necessary information thereof and to pay the cost thereof to the Commission immediately upon presentation of an invoice.

In the event of any claim shall arise which the COMMISSION determines should be covered by the insurance required to be carried by a Covered Party, and if the Covered Party or the Covered Party's insurance carrier declines to cover such claim or the defense of such claim, the COMMISSION shall be entitled to receive from the Covered Party a true and complete copy of the Covered Party's insurance policy.

In no event shall the Covered Party begin work until Certificates of Insurance showing coverage in the aforementioned amounts required for the Contract is received and approved by the Commission.

Settlement of Insurance Claims:

Make every effort to settle all claims in an expeditious and equitable manner. Provide the Commission with the name, address and telephone number of the person authorized to act on behalf of the Insurance Company for the project at the preconstruction conference. Promptly inform the Commission and the insurance company in writing, of any written or oral notification of an alleged claim.

5.03 WAIVER OF RIGHTS

- A. The COMMISSION and ESS CONTRACTOR intend that all policies purchased in accordance with Paragraph 5.02 of these General Conditions will protect the COMMISSION, ESS CONTRACTOR, COMMISSION's ENGINEER, Subcontractors, and all other individuals or entities indicated in the Contract Documents to be listed as insured or additional insured in such policies and will provide primary coverage for all losses and

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damages caused by the perils or causes of loss covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insured or additional insured thereunder. ESS CONTRACTOR waives all rights against the Indemnified Parties for all losses and damages caused by, arising out of or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work.

5.04 LICENSED SURETIES AND INSURERS; CERTIFICATES OF INSURANCE

- A. All Bonds and insurance required by the Contract Documents to be purchased and maintained by ESS CONTRACTOR shall be obtained from Surety or insurance companies that are duly licensed or authorized in the jurisdictions in which the Project is located to issue Bonds or insurance policies for the limits and coverages so required. Such Surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Contract Documents.
- B. ESS CONTRACTOR shall deliver to COMMISSION, with copies to each additional insured indicated in the Contract Documents, certificates of insurance (and other evidence of insurance requested by COMMISSION or any other additional insured) which ESS CONTRACTOR is required to purchase and maintain in accordance with paragraph 5.02.

ARTICLE 6. ESS CONTRACTOR's RESPONSIBILITIES

6.01 DESIGN PROFESSIONAL SERVICES, DESIGN, DEVELOPMENT, INTEGRATION, INSTALLATION AND TESTING PROFESSIONAL SERVICES

- A. Standard of Care: ESS CONTRACTOR shall perform or furnish Design Professional Services Design, development, integration, installation, and testing and related services in all phases of the Project. The standard of care for all such services performed or furnished under the Contract Documents will be the care and skill ordinarily used by members of the engineering, computer and systems design, Electronic Surveillance and Detection System (ESS) integration, or other applicable profession.
- B. Design, Design Professional Services and development, integration, installation and testing shall be performed in accordance with the standards and requirements and Milestones detailed in RFP Tab 2, Technical Requirements.
- C. Operational Test: Upon Substantial Completion of each of Phases of the Project, the COMMISSION and its agents shall receive beneficial use of the Work performed during each Phase. During the Operational Test, ESS CONTRACTOR shall refine, tune, optimize, and adjust any equipment hardware, software or subsystem to meet the detailed functional requirements identified in the Technical Requirements until such time as the system meets the stated requirements for the defined period.
- D. Approval of the ESS CONTRACTOR's Design documents, Drawings and Specifications by the COMMISSION shall be deemed to be Approval of the concept though not the means,

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techniques, or particular material recommended by the ESS CONTRACTOR. The ESS CONTRACTOR acknowledges that the COMMISSION and the COMMISSION'S representatives do not assume the responsibility of, or liability for, reviewing the ESS CONTRACTOR's Design documents, Drawings or Specifications for errors, omissions and/or inconsistencies.

6.02 SUPERVISION AND SUPERINTENDENCE OF CONSTRUCTION

- A. ESS CONTRACTOR shall supervise, inspect, and direct the Construction competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to provide the Construction in accordance with the Contract Documents. ESS CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences and procedures employed for the provision of Construction. ESS CONTRACTOR shall be responsible to see that the completed Construction complies accurately with the Contract Documents and shall keep COMMISSION advised as to the quality and progress of the Construction.
- B. ESS CONTRACTOR shall keep on the Site at all times during Construction a competent resident superintendent, who shall not be replaced without written notice to COMMISSION except under extraordinary circumstances. The superintendent will be ESS CONTRACTOR's representative at the Site and shall have authority to act on behalf of ESS CONTRACTOR. All communications to the superintendent shall be as binding as if given to ESS CONTRACTOR.

6.03 SUPERVISION AND SUPERINTENDENCE OF MAINTENANCE

- A. ESS CONTRACTOR shall assume responsibility for all Maintenance, as detailed in RFP Tab 2, Technical Requirements. All policy decisions regarding the Electronic Surveillance and Detection System (ESS) and the Existing Electronic Surveillance and Detection System (ESS) Maintenance shall rest with the COMMISSION.
- B. ESS CONTRACTOR shall supervise, inspect and direct the Maintenance competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to provide the Maintenance in accordance with the Contract Documents. ESS CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences and procedures employed for the provision of Maintenance. ESS CONTRACTOR shall be responsible to see that the Maintenance complies accurately with the Contract Documents and shall keep COMMISSION advised as to the quality and progress of the Maintenance.
- C. ESS CONTRACTOR shall keep on Site at all times during the Maintenance period, designated required supervisory and management personnel for Maintenance, who shall not be replaced without written notice to COMMISSION except under extraordinary circumstances. The supervisory and management personnel will be ESS CONTRACTOR's representative at the Site and shall have authority to act on behalf of ESS CONTRACTOR. All communications to the supervisory and management personnel shall be as binding as if given to ESS CONTRACTOR.

6.04 LABOR, MATERIALS AND EQUIPMENT DURING CONSTRUCTION, INSTALLATION,

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TESTING AND MAINTENANCE

- A. ESS CONTRACTOR shall provide competent, suitably qualified personnel to survey and lay out the Construction and perform Construction as required by the Contract Documents. ESS CONTRACTOR shall at all times maintain good discipline and order at the Site. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise indicated in the Contract Documents, all Construction at the Site shall be performed during regular working hours, and ESS CONTRACTOR will not permit overtime work or the performance of Construction on Saturday, Sunday or any legal holiday without COMMISSION's written consent, which will not be unreasonably withheld.
- B. The ESS CONTRACTOR shall employ only competent and skilled people to perform the Work. Whenever the COMMISSION shall notify the ESS CONTRACTOR that, in the COMMISSION's opinion any person is incompetent, or otherwise unsatisfactory, such person shall be immediately discharged from the Work and shall not again be employed at the Work Site, except with the prior written consent of the COMMISSION.
- C. Unless otherwise specified in the Contract Documents, ESS CONTRACTOR shall furnish or cause to be furnished and assume full responsibility for materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the Work. ESS CONTRACTOR, in the presence of COMMISSION's personnel, will direct the checkout of utilities and operations of systems and equipment.
- D. All materials and equipment incorporated into the Work shall be of good quality and new, except as otherwise provided in the Contract Documents. All warranties and guarantees specifically called for by the Contract Documents shall expressly run to the benefit of COMMISSION. If required by COMMISSION, ESS CONTRACTOR shall furnish satisfactory evidence (including, without limitation, reports of required tests) as to the kind and quality of materials and equipment. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with instructions of the applicable Supplier, manufacturer, fabricator or processor, except as otherwise provided in the Contract Documents.

6.05 PROGRESS SCHEDULE

- A. ESS CONTRACTOR shall adhere to the progress schedule established in accordance with paragraph 2.06.A as it may be adjusted from time to time.
- B. ESS CONTRACTOR shall submit to COMMISSION for acceptance proposed adjustments in the progress schedule that will not change the Contract Times (or Milestones). Such adjustments will conform generally to the progress schedule then in effect.
- C. Proposed adjustments in the progress schedule that will change the Contract Times (or Milestones) shall be submitted in accordance with the requirements of Article 10. Such adjustments may only be made by a Change Order or Written Amendment.

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6.06 CONCERNING SUBCONTRACTORS, SUPPLIERS AND OTHERS

- A. ESS CONTRACTOR shall not employ any Subcontractor, Supplier or other individual or entity against whom COMMISSION may have reasonable objection. ESS CONTRACTOR shall not be required to employ any Subcontractor, Supplier or other individual or entity to furnish or perform any of the Work against whom ESS CONTRACTOR has reasonable objection. In the event that the ESS CONTRACTOR decides to retain an additional Subcontractor during the course of the Project, the ESS CONTRACTOR shall submit to the COMMISSION prior to retaining such Subcontractor, the Subcontractor's name and other persons and organizations (including, without limitation, those who are to furnish the principal items of material and equipment) proposed by the ESS CONTRACTOR. In addition, the ESS CONTRACTOR shall submit to the COMMISSION an experience statement for such Subcontractor with pertinent information as to similar projects and other evidence of qualification for such Subcontractor, person, and organization. The COMMISSION shall have the right to object to such Subcontractor, person or organization and in such case the ESS CONTRACTOR shall retain a substitute Subcontractor, person or organization, acceptable to the COMMISSION, without an increase in the Contract Price. Notwithstanding the foregoing, acceptance of any such Subcontractor, person or organization shall not constitute a waiver of any right of the COMMISSION or the COMMISSION's ENGINEER to reject Defective Work, material or equipment or Work, material or equipment not in conformance with the requirements of the Contract Documents.
- B. ESS CONTRACTOR shall be fully responsible to COMMISSION for all acts and omissions of the Subcontractors, Suppliers and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with ESS CONTRACTOR. Nothing in the Contract Documents shall create for the benefit of any such Subcontractor, Supplier or other individual or entity any contractual relationship between COMMISSION and any such Subcontractor, Supplier or other individual or entity, nor shall it create any obligation on the part of COMMISSION to pay or to see to the payment of any moneys due any such Subcontractor, Supplier or other individual or entity except as may otherwise be required by Laws and Regulations.
- C. ESS CONTRACTOR shall be solely responsible for scheduling and coordinating Subcontractors, Suppliers and other individuals and entities performing or furnishing any of the Work under a direct or indirect contract with ESS CONTRACTOR. ESS CONTRACTOR shall require all Subcontractors, Suppliers and such other individuals and entities performing or furnishing any of the Work to communicate with the COMMISSION through ESS CONTRACTOR.
- D. All services performed or provided to and material and equipment supplied to ESS CONTRACTOR by a Subcontractor or Supplier will be pursuant to an appropriate subagreement between ESS CONTRACTOR and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of COMMISSION. Whenever any such agreement is with a Subcontractor or Supplier who is listed as an additional insured on the property insurance provided in paragraph 5.02, the agreement between the ESS CONTRACTOR and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or

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Supplier waives all rights against COMMISSION, ESS CONTRACTOR, COMMISSION's Consultants and all other additional insureds for all losses and damages caused by any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, ESS CONTRACTOR will obtain the same.

- E. ESS CONTRACTOR agrees to bind its Consultants to the applicable terms and conditions of the Contract Documents for the benefit of the COMMISSION. Every Consultant by undertaking to perform any of the Work, will thereby be deemed to be bound by such terms and conditions. ESS CONTRACTOR shall be solely responsible for making sure its Consultants comply with all terms and conditions of the Contract Documents to the same extent that the ESS CONTRACTOR is required to comply with the Contract Documents. Notwithstanding the foregoing, the ESS CONTRACTOR's Consultants are not third party beneficiaries to the Contract Documents. Hence, the COMMISSION will not be a party to disputes or actions brought by any third party, including, without limitation, the ESS CONTRACTOR's Consultants.

6.07 PATENT FEES AND ROYALTIES

- A. ESS CONTRACTOR shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product or device which is the subject of patent rights or copyrights held by others. To the fullest extent permitted by Laws and Regulations, ESS CONTRACTOR shall indemnify and hold harmless the Indemnified Parties, from and against all claims, costs, losses and damages (including, but not limited, to all fees and charges of engineers, architects, attorneys and other professionals and all court or arbitration or other dispute resolution costs) arising out of or resulting from any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product or device.
- B. In the event that the COMMISSION's use of goods or services provided under the Contract Documents are enjoined as a result of any such suit or proceeding, or if, in the opinion of the ESS CONTRACTOR, the goods or services are likely to become the subject of any such claim, suit or proceeding, ESS CONTRACTOR, at its option and expense, may undertake any of the following actions:
1. Procure for the COMMISSION the right to continue using such goods or services at no additional cost to the COMMISSION; or
 2. Replace the goods or services with non-infringing goods or services or modify the goods or services so that the use thereof becomes non-infringing provided that any such replacement or modification continues to meet contract performance requirements.

6.08 PERMITS

- A. Unless otherwise provided in the Contract Documents, ESS CONTRACTOR shall directly or through one or more Subcontractors obtain any applicable permits and licenses and the

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COMMISSION shall pay for such applicable permits and license fees at cost and without markup. COMMISSION shall assist ESS CONTRACTOR, when necessary, in obtaining such permits and licenses. Notwithstanding the foregoing, the ESS CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the Construction, which are applicable on the last day for receipt of Proposals. ESS CONTRACTOR shall pay all charges of utility owners for connections to the Work, and COMMISSION shall pay all charges of such utility owners for capital costs related thereto. No overhead/profit amounts on these fees will apply.

6.09 LAWS AND REGULATIONS

- A. ESS CONTRACTOR shall give all notices and comply with all Laws and Regulations of the place of the Project which are applicable to furnishing and performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, COMMISSION shall not be responsible for monitoring ESS CONTRACTOR's compliance with any Laws or Regulations.
- B. If ESS CONTRACTOR performs any Work knowing or having reason to know that it is contrary to Laws or Regulations, ESS CONTRACTOR shall bear all costs arising therefrom, including but not limited to the initial work and all corrective work.

6.10 TAXES

- A. The COMMISSION is a bi-state entity existing in both the Commonwealth of Pennsylvania and the State of New Jersey. ESS CONTRACTOR shall pay all sales, consumer, use, gross receipts and other similar taxes required to be paid by ESS CONTRACTOR in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work. If any sales or use tax exemption is available for the Project, the COMMISSION agrees to provide the ESS CONTRACTOR with the necessary documentation to obtain any such tax exemption. The ESS CONTRACTOR is responsible to make any necessary inquiries and investigations with the regulating state agencies to obtain a determination of equipment and services which are tax exempt for this Project and shall reflect any tax exemptions in its Proposal.
- B. Furthermore, the ESS CONTRACTOR agrees to assign and transfer to the COMMISSION all of its rights to sales and use tax which may be refunded as a result of a claim for refund for materials and/or equipment purchased for the Project. The ESS CONTRACTOR further agrees that it will not file a claim for refund for any sales or use tax which is the subject of this assignment. This assignment will include, without limitation, any tax erroneously paid by the ESS CONTRACTOR. Further, the ESS CONTRACTOR agrees to execute all such documents as may be necessary to effectuate such an assignment.

6.11 USE OF SITE AND OTHER AREAS

- A. ESS CONTRACTOR shall confine Construction equipment, the storage of materials and equipment and the operations of Construction workers to those lands and areas permitted by the COMMISSION and other land and areas permitted by Laws and Regulations, rights-of-way, permits and easements, and shall not unreasonably encumber the premises with

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Construction equipment or other materials or equipment. ESS CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the COMMISSION or occupant thereof or of any adjacent land or areas, resulting from the performance of the Construction. Should any claim be made by any such COMMISSION or occupant because of the performance of the Construction, ESS CONTRACTOR shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law. ESS CONTRACTOR shall, to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless the Indemnified Parties from and against all claims, costs, losses and damages (including, but not limited to, fees of engineers, architects, attorneys and other professionals and court and arbitration or other dispute resolution costs) arising out of or resulting from any claim or action, legal or equitable, brought by any such COMMISSION or occupant against COMMISSION, or any other party indemnified hereunder to the extent caused by or based upon ESS CONTRACTOR's performance of the Construction.

- B. During the performance of the Construction, ESS CONTRACTOR shall keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the Construction. At the completion of the Construction ESS CONTRACTOR shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment, temporary construction and machinery and surplus materials. ESS CONTRACTOR shall leave the Site clean and ready for occupancy by COMMISSION at Substantial Completion. ESS CONTRACTOR shall restore to original condition all property not designated for alteration by the Contract Documents.
- C. ESS CONTRACTOR shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall ESS CONTRACTOR subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

6.12 RECORD DOCUMENTS, RETENTION AND AUDITS

- A. ESS CONTRACTOR shall maintain in a safe place at the Site at least one record copy of all Drawings, Specifications, Addenda, Written Amendments, Modifications, Change Orders, Field Orders and Work Change Directives, in good order and annotated to show all changes made during Construction. These record documents together with all approved Submittals will be available to COMMISSION for reference. Upon completion of the Work, these record documents and Submittals, including, without limitation, a reproducible set of record drawings, will be delivered to COMMISSION. Submission of documents, including as-built documents, shall be in accordance with the requirements set forth in RFP Tab 2, Technical Requirements, Section 3.

6.13 ESS CONTRACTOR FIDUCIARY RESPONSIBILITIES

- A. ESS CONTRACTOR shall accurately maintain all information related to the Contract and Work in accordance with best industry practices and generally accepted accounting principles.
- B. ESS CONTRACTOR shall, during the course of the Agreement and for five (5) years after final payment, maintain intact and readily accessible all Project books, accounts, data,

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documents, reports, records, contracts, and supporting materials (hereinafter, "Project Records") relating to the Contract as provided below. Project Records shall be maintained in accordance with best project management practices and generally accepted accounting principles.

- C. ESS CONTRACTOR shall permit the COMMISSION or their authorized representatives, to inspect, examine and copy the Project Records at any reasonable time for the purpose of auditing and verifying statements, invoices or bills submitted by ESS CONTRACTOR pursuant to this Contract and shall provide such assistance as may be reasonably required in the course of such inspection. The COMMISSION further reserves the right to examine, and re-examine said Project Records during the five (5) year period following the final payment under this Agreement and when all pending matters are closed. ESS CONTRACTOR shall in no event dispose of, destroy, alter or mutilate said books, records, accounts and data in any manner whatsoever for five years after the final payment of this Contract and all pending matters are closed. ESS CONTRACTOR shall require each Subcontractor to permit the COMMISSION or their duly authorized representative to inspect all Project Records maintained by each Subcontractor and to audit the Project Records maintained by each Subcontractor.

6.14 ESS CONTRACTOR RESPONSIBILITY FOR ACCURACY OF DATA

- A. ESS CONTRACTOR acknowledges and understands that the data and/or information it collects and/or provides to the COMMISSION will be relied upon by the COMMISSION and other persons or entities that are now or will in the future be under agreement with the COMMISSION. Should information derived and provided by ESS CONTRACTOR be inaccurate and cause the COMMISSION to incur damages or additional expenses, the COMMISSION shall notify ESS CONTRACTOR and ESS CONTRACTOR shall immediately place any applicable insurance carrier on notice of a potential claim.

6.15 SAFETY AND PROTECTION

- A. ESS CONTRACTOR shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Construction. ESS CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:
1. All persons on the Site or who may be affected by the Construction;
 2. All Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
 3. Other property at the Site or adjacent thereto, including, without limitation, trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and underground facilities not designated for removal, relocation or replacement in the course of construction.
- B. ESS CONTRACTOR shall comply with applicable Laws and Regulations of any public body

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having jurisdiction for safety of persons or property or to protect them from damage, injury or loss including, without limitation, the Occupational Safety and Health Act of 1970 (29 U.S.C. Section 651, et. seq.); and the ESS CONTRACTOR shall erect and maintain all necessary safeguards for such safety and protection. ESS CONTRACTOR shall notify owners of adjacent property and of underground facilities and utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property caused, directly or indirectly, in whole or in part, by ESS CONTRACTOR, Subcontractor, Supplier or any other individual or entity directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, shall be remedied by ESS CONTRACTOR. ESS CONTRACTOR's duties and responsibilities for safety and for protection of the Construction shall continue until such time as all the Work is completed and COMMISSION has issued a notice to ESS CONTRACTOR in accordance with paragraph 12.09 that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

6.16 SAFETY REPRESENTATIVE

- A. ESS CONTRACTOR shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

6.17 HAZARD COMMUNICATION PROGRAMS/PROTECTION OF PUBLIC AND RIVER ENVIRONMENT

- A. ESS CONTRACTOR shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.
- B. ESS CONTRACTOR shall provide and use every means and take all necessary precautions to protect motor vehicles, motorists, pedestrians, rail traffic and other traffic in or near the Work Sites, from injury and damage during the Construction of the Project. The ESS CONTRACTOR agrees to indemnify, defend and hold harmless the Indemnified Parties from and against, and shall reimburse the Indemnified Parties for, any and all liabilities, losses, claims, damages, expenses (including, without limitation, costs of investigation and defense and attorneys fees and expenses) arising out of or in any manner connected with the ESS CONTRACTOR's neglect to observe and implement all such necessary precautions
- C. ESS CONTRACTOR shall take every precaution to preclude tools, materials and debris from falling into the Delaware River and such precautions shall include, without limitation, placing catch pans under all machinery on a bridge.

6.18 EMERGENCIES

- A. In emergencies affecting the safety or protection of persons or the Construction or property at the Site or adjacent thereto, ESS CONTRACTOR, without special instruction or

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authorization from COMMISSION, is obligated to act to prevent threatened damage, injury or loss. ESS CONTRACTOR shall give COMMISSION prompt written notice if ESS CONTRACTOR believes that any significant changes in the Construction or variations from the Contract Documents have been caused thereby. If a change in the Contract Documents is required because of the action taken by ESS CONTRACTOR in response to such an emergency, a Work Change Directive or Change Order will be issued to document the consequences of such action.

6.19 SUBMITTALS

- A. COMMISSION will review and Approve Submittals in accordance with the schedule of required Submittals accepted by COMMISSION as required by paragraph 2.06.A. COMMISSION's review and Approval will be only to determine if the items covered by the Submittals will, after installation or incorporation in the Construction, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. COMMISSION's review and Approval will not extend to means, methods, techniques, sequences or procedures of Construction (except where a particular means, method, technique, sequence or procedure of Construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and Approval of a separate item as such will not indicate Approval of the assembly in which the item functions. ESS CONTRACTOR shall make corrections required by COMMISSION, and shall return the required number of corrected copies of the required Submittal for review and Approval. ESS CONTRACTOR shall direct specific attention in writing to revisions other than the corrections called for by COMMISSION on previous Submittals.
- B. COMMISSION's review and Approval of required Submittals shall not relieve ESS CONTRACTOR from responsibility for any variation from the requirements of the Contract Documents unless ESS CONTRACTOR has in writing called COMMISSION's attention to each such variation at the time of submission and COMMISSION has given written Approval of each such variation by specific written notation thereof incorporated in or accompanying the Submittal.
- C. Where a Submittal is required by the Contract Documents or the final schedule of Submittals accepted by COMMISSION as required by paragraph 2.06.A, any related Construction provided prior to COMMISSION's review and Approval of the pertinent Submittal will be at the sole expense and responsibility of ESS CONTRACTOR.

6.20 CONTINUING THE WORK

- A. ESS CONTRACTOR shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with COMMISSION. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as ESS CONTRACTOR and COMMISSION may otherwise agree in writing.

6.21 ESS CONTRACTOR'S GENERAL WARRANTY AND GUARANTEE

- A. ESS CONTRACTOR warrants and guarantees to COMMISSION that all Construction,

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Installations and Operations and Maintenance will be in accordance with the Contract Documents and will not be Defective.

- B. ESS CONTRACTOR's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of ESS CONTRACTOR's obligation to perform the Work in accordance with the Contract Documents:
1. Observations by COMMISSION;
 2. The making of any progress or final payment;
 3. The issuance of a certificate of Substantial Completion;
 4. Use or occupancy of the Work or any part thereof by COMMISSION;
 5. Any acceptance by COMMISSION or any failure to do so;
 6. Any review and Approval of a Submittal;
 7. Any inspection, test or approval by others; or
 8. Any correction of Defective Construction by COMMISSION
- C. The ESS CONTRACTOR's warranties under this Section shall be in effect for one year from the date of successful completion of the Operational Test set forth in Paragraph 6.01(c) for each Phase of the Project, Phases 2 and 3 inclusive, unless identified as extended items such as server equipment. Warranty for the equipment for each Phase shall not commence until that Phase has been accepted by the COMMISSION. These warranty terms shall be extended for any period that Work done or equipment installed cannot be used for the purpose intended as a result of the discrepancy or defect, including any extensions of warranty provided as a result of the failure of the equipment to perform at the required standards, in accordance with the RFP Tab 2, Technical Requirements. ESS CONTRACTOR hereby warrants that equipment furnished shall meet or exceed performance requirements set forth in the Contract Documents. The ESS CONTRACTOR warranties for patent and title shall be perpetual.
- D. ESS CONTRACTOR warrants that all system software and applications will be free from reproducible defects that vary from the RFP Tab 2, Technical Requirements.
- E. The COMMISSION shall notify the ESS CONTRACTOR in writing, or by telephone or fax confirmed in writing, after discovery of a discrepancy or defect covered by the warranties set forth herein. ESS CONTRACTOR's warranty responsibilities hereunder shall be contingent upon the COMMISSION providing such notice within the warranty period, except that if such discrepancy or defect is one of which ESS CONTRACTOR knew or should have known, as a result of its Construction and Maintenance responsibilities under the Agreement, such notice shall be deemed given. As soon as practicable, and in any event within ten (10) days after receiving the COMMISSION's notice, the ESS CONTRACTOR

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shall propose a recommended method of correcting the discrepancy or defect that meets all requirements of the Contract Documents and involves the least loss of operating time or efficiency.

- F. If the COMMISSION determines that it would be inefficient or impractical for the ESS CONTRACTOR to perform the corrective work, or that the ESS CONTRACTOR is unwilling or unable, for whatever reason, to perform the corrective work in the manner or within the time required by the Contract Documents, the COMMISSION reserves the right to perform the corrective work itself or to select another firm or entity to perform the corrective work. If such corrective work by the COMMISSION, or another firm or entity occurs because ESS CONTRACTOR is unwilling or unable to perform the Work in accordance with the Contract Documents, such corrective work shall be at ESS CONTRACTOR's expense. The party performing such corrective work shall warrant the corrective work performed directly to the COMMISSION.
- G. Unless otherwise required by the COMMISSION, the ESS CONTRACTOR shall perform the corrective work required to satisfy this warranty as rapidly as practicable, and in any event within sixty (60) days after receiving the COMMISSION's notice. The ESS CONTRACTOR shall perform the corrective work and shall procure required materials using the fastest means available in order to minimize the COMMISSION's loss of operating time or efficiency.
- H. The COMMISSION may direct the ESS CONTRACTOR to select another option for correcting the discrepancy or defect that meets all of the requirements of the Contract Documents and if the ESS CONTRACTOR fails to comply with the COMMISSION's direction, the ESS CONTRACTOR shall be in default of the Contract Documents. Nothing in this section shall be deemed to limit or condition the COMMISSION's rights otherwise set forth in the Contract Documents, at law or in equity.

6.22 SOFTWARE WARRANTY

- A. ESS CONTRACTOR warrants that any software delivered hereunder, either embedded in equipment described herein or specifically designed for use in or with such equipment, will substantially provide the function(s) set forth in the RFP Tab 2, Technical Requirements. The ESS CONTRACTOR shall, at its option, without charge to the COMMISSION, revise or replace any nonconforming software, provided:
- B. Notice of the claimed defect is given the ESS CONTRACTOR within the applicable warranty period.
- C. The warranty stated herein shall be void as to the software affected if such software (or its host medium) is altered (or alterations are attempted) by other than the ESS CONTRACTOR without the prior written agreement of the ESS CONTRACTOR.
- D. All equipment provided in any portion of this Project shall be new products. Any commercial off-the-shelf software shall be new and the latest appropriate release versions and shall have been obtained specifically for this Project.

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- E. The ESS CONTRACTOR shall provide comprehensive and continuing warranty repair and restoration services on all aspects of the delivered equipment including, but not limited to, hardware and software products during the warranty period. Any warranty from a Sub-contractor to the ESS CONTRACTOR or Supplier to the ESS CONTRACTOR, which exceeds this time period, shall be extended to the COMMISSION for the same period of time as given to the ESS CONTRACTOR.
- F. It is understood and agreed that time is of the essence with respect to all corrective work to be undertaken pursuant to the warranty herein contained, and the ESS CONTRACTOR shall promptly commence corrective work upon receipt of written notice from the COMMISSION. The ESS CONTRACTOR shall diligently pursue such corrective work to completion.
- G. The ESS CONTRACTOR is responsible for all warranty covered repair work and for identification of failures as set forth in RFP Tab 2, Technical Requirements.
- H. The ESS CONTRACTOR shall perform such tests that the COMMISSION may require to verify that any redesign, repairs, and replacements comply with the requirements of the Contract Documents. All costs associated with such redesign, repair, replacement, and testing, including removal, replacement, and reinstallation of equipment and materials necessary to gain access, shall be borne by the ESS CONTRACTOR. All transportation and shipping costs for defective and replacement parts under warranty shall be paid for by the ESS CONTRACTOR.
- I. To prevent delays and disruption to THE COMMISSION's operations, the COMMISSION shall have the right, when practical and feasible in their opinion, to the continued use of any such goods, equipment, systems, and work deemed defective or unsatisfactory until they can be taken out of service pursuant to the corrective work hereby undertaken by the ESS CONTRACTOR.
- J. During the warranty period(s), the COMMISSION is authorized by the ESS CONTRACTOR to commence repair and/or replacement of defective hardware and software products delivered hereunder by the ESS CONTRACTOR after the ESS CONTRACTOR has been notified of the defect and the ESS CONTRACTOR has advised the COMMISSION that it cannot respond within the response timeframes stated hereunder or if the ESS CONTRACTOR fails to perform necessary redesign, repair, replacement, or testing within the timeframes stated in this section. All such resultant repair and/or replacement by the COMMISSION or other authorized representative shall be performed by qualified maintenance personnel in accordance with the Operation and Maintenance manuals furnished by the ESS CONTRACTOR.
- K. The ESS CONTRACTOR will be responsible for reimbursement or replacement of any parts required for the repair under sub-paragraph J. This reimbursement will include labor costs and other direct costs. The labor costs shall be determined by multiplying the labor rates by the number of actual labor hours required to correct the defect. Labor rates are determined by adding the direct classification labor rates and indirect labor rates (overhead); the overhead used will be the COMMISSION's current Fiscal Year Overhead.

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- L. Replacement parts and repairs provided pursuant to corrective work hereunder shall be subject to prior approval by the COMMISSION and shall be tendered and performed in the same manner and extent as items originally delivered. The ESS CONTRACTOR warrants such redesigned, repaired, or replaced work against defective design, materials, and workmanship for the remainder of the warranty period of the replaced part, or a period of six (6) months from the date of acceptance of the new (or repaired) part, whichever occurs later.
- M. Once any single item provided by the ESS CONTRACTOR hereunder fails for a third time for the same fault at any point during the warranty period, the item shall be designated as "Faulty 3 Times." This item shall be replaced with a new unit by the ESS CONTRACTOR and the replaced item shall never be returned to service in this or any future COMMISSION project. The ESS CONTRACTOR shall warrant any such redesigned, repaired, or replaced work for the remainder of the original applicable warranty period or six months from acceptance of the new item, whichever occurs later.
- N. The rights and remedies of the COMMISSION under this section are not intended to be exclusive and shall not preclude the exercise of any other rights or remedies provided for in the Contract Documents, or by law or otherwise.
- O. The ESS CONTRACTOR shall supply only products and equipment (including hardware and software) which are in current production by the manufacturer, and for which the manufacturer has not issued any notice of intent to cease such production within the next twelve (12) months. It is the ESS CONTRACTOR's responsibility to have the systems and devices remain functional for the duration of the warranty period and the COMMISSION, therefore, requests that only those items be used for which there is a long-term availability projected. In the event that any equipment or software item is discontinued by its manufacturer, the ESS CONTRACTOR shall immediately develop and discuss with the COMMISSION an alternative warranty service response plan. Regardless of these circumstances, the ESS CONTRACTOR shall continue to supply warranty service for all components' applicable warranty period with no adjustment in compensation.
- P. Orders for additional equipment capacity or licenses may be executed at any time prior to termination of the Agreement. If the COMMISSION desires to procure additional equipment capacity or licenses, the price for such orders shall be determined based upon the per-unit price specified for that item in the ESS CONTRACTOR's Proposal. The COMMISSION shall not be required to purchase the entire software suite when exercising this option to purchase software.
- Q. The ESS CONTRACTOR shall provide the COMMISSION copies of all applicable service, instructional, and manufacturer's warranty materials for all equipment, software, or other deliverables under the Contract Documents. The COMMISSION shall be placed on the ESS CONTRACTOR's regular mailing list to receive all announcements, including updates and upgrades to the software furnished for this Project. This includes both application software and system software, and software which the ESS CONTRACTOR develops for this Project. "Updates" are those enhancements to the software that the ESS CONTRACTOR generally makes available as part of the annual Maintenance program. "Upgrades" are any new feature or major enhancement of the software that the ESS CONTRACTOR markets and licenses for additional fees separately from the updates. During the warranty period, any

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software updates or upgrades which become available and are applicable to the functionality of the supplied software on this Project shall be provided and installed within a mutually agreed upon timeframe thereafter in the COMMISSION's System. During the warranty period, solutions to problems with the ESS CONTRACTOR-supplied software hereunder, whether discovered and corrected on this Project or elsewhere, shall be documented and supplied to the COMMISSION without additional charge. The ESS CONTRACTOR also shall provide announcements pertaining to the ESS CONTRACTOR-produced software for five (5) years after the warranty period concludes and shall include announcements pertaining to software produced by third-party suppliers during the warranty and maintenance period.

- R. The COMMISSION may purchase additional warranty time from the ESS CONTRACTOR at its option. This option must be exercised no later than the termination date of this Contract.

6.23 INDEMNIFICATION

- A. To the fullest extent permitted by law, the Covered Party agrees to indemnify, defend and hold the COMMISSION, the Commonwealth of Pennsylvania, the State of New Jersey and their respective commissioners, servants, employees, agents, assigns and affiliates (collectively, the "Indemnified Parties") harmless from and against, any and all liabilities, losses, claims, damages, and expenses including, without limitation, costs of investigation and defense, expert witness fees, legal fees (e.g., fees of attorneys, paralegals and other legal professionals), expenses and diminution of value, whether or not involving a third party claim, arising out of or in any manner connected with the Work to be performed for the Indemnified Parties, including, but not limited to, Work performed under this Contract, Work performed under a Change Order, or any such other Work performed for the Indemnified Parties, even for and if caused in whole or in part by any act, omission or negligence of the Indemnified Parties.
- B. It is expressly agreed that the indemnification contained in this Contract covers claims against the Indemnified Parties.
- C. If there are any liabilities, losses, claims, damages or expenses of any kind or nature unsettled when the Work under the Contract is finished, any unpaid amounts owed by the COMMISSION to the Covered Party shall be deferred until all such liabilities, losses, claims, damages or expenses are: (1) settled; (2) evidence of insurance coverage acceptable to the COMMISSION or indemnification acceptable to the COMMISSION is provided by the Covered Party's insurance carrier; or (3) a bond acceptable to the COMMISSION is provided by the Covered Party to secure payment of all liabilities, losses, claims, damages and expenses owed by the Covered Party to the COMMISSION
- D. The terms and conditions of this indemnification section shall survive any cancellation, expiration or termination of this Contract. The laws of the Commonwealth of Pennsylvania shall apply to the construction of the indemnification set forth above without regard to any conflicts of laws provisions.

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6.24 COORDINATION

- A. The ESS CONTRACTOR shall coordinate its Construction, Installation and Maintenance and any other Work required of the ESS CONTRACTOR under the Contract Documents with the services to be provided by the COMMISSION's Consultants, at no additional cost to the COMMISSION.
- B. During the course of this Agreement, the COMMISSION may undertake or award other agreements for additional work or professional services. It is critical that close coordination of work occurs during the Construction, Operations and Maintenance phases of this Contract. The ESS CONTRACTOR shall fully cooperate with the COMMISSION, its designees and the parties to all other contracts and carefully integrate its own Work to such additional work as may be directed by the COMMISSION.

ARTICLE 7. OTHER CONSTRUCTION

7.01 RELATED CONSTRUCTION AT SITE

- A. COMMISSION may perform Work related to the Project at the Site and work at the Site unrelated to the Project with its own forces. Furthermore, COMMISSION may retain third parties to perform Work related to the Project at the Site and work at the Site unrelated to the Project.
- B. ESS CONTRACTOR shall afford any and all third parties who are performing work at the Project Site related or unrelated to the Project (and COMMISSION, if COMMISSION is performing the additional work with COMMISSION's employees) proper and safe access to the Site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work and shall properly connect and coordinate the Construction activities. Unless otherwise provided in the Contract Documents, ESS CONTRACTOR shall do all cutting, fitting and patching of the Work that may be required to make its several parts come together properly and integrate with such other work. ESS CONTRACTOR shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of COMMISSION and the others whose work will be affected. The duties and responsibilities of ESS CONTRACTOR under this paragraph are for the benefit of such third parties and COMMISSION.
- C. If the proper execution or results of any part of ESS CONTRACTOR's Work depends upon work performed or services provided by others under this Article 7, ESS CONTRACTOR shall inspect such other work and appropriate instruments of service and promptly report to COMMISSION in writing any delays, defects or deficiencies in such other work or services that render it unavailable or unsuitable for the proper execution and results of ESS CONTRACTOR's Work. ESS CONTRACTOR's failure so to report will constitute an acceptance of such other work as fit and proper for integration with ESS CONTRACTOR's Work except for latent or non-apparent defects and deficiencies in such other work.

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- D. The ESS CONTRACTOR acknowledges and understands that the COMMISSION will need access to the Site during the course of the ESS CONTRACTOR's Work on the Project for purposes of other capital projects that will be performed at the Site on behalf of the COMMISSION concurrently with this Project. The ESS CONTRACTOR agrees to provide such access to the Site and the ESS CONTRACTOR will coordinate its Work with the COMMISSION and any other capital projects that will be performed on behalf of the COMMISSION concurrently with this Project. The ESS CONTRACTOR will make all necessary modifications and accommodations to allow the COMMISSION to complete its other capital projects concurrently with this Project, including, without limitation, modifying equipment locations and construction phases where possible as well as modifying its progress schedules where possible to avoid scheduling conflicts between the ESS CONTRACTOR's Work on the Project and the COMMISSION's work on its other capital projects. Furthermore, the ESS CONTRACTOR acknowledges and understands that the COMMISSION expressly reserves the right to determine priority between this Project and the COMMISSION's other capital projects and if the COMMISSION decides that its other capital projects take precedence over this Project, then the ESS CONTRACTOR shall provide the COMMISSION and any other parties engaged by the COMMISSION for such other capital project with uninterrupted access to the Site to complete such other capital projects. If the COMMISSION decides that its other capital projects take precedence over this Project, then the ESS CONTRACTOR's sole remedy shall be to submit a claim for extension of Contract Times (or milestones) in accordance with Article 10 of these General Conditions.

ARTICLE 8. CHANGES IN THE WORK; CLAIMS

8.01 GENERAL--RIGHTS AND OBLIGATIONS

- A. Without invalidating the Agreement and without notice to any Surety, COMMISSION may, at any time or from time to time, order additions, deletions or revisions in the Work within the general scope of the Agreement by a Written Amendment, a Field Order, a Change Order, or a Work Change Directive. Upon receipt of any such document, ESS CONTRACTOR shall promptly proceed with the Work involved which will be performed under the applicable provisions of the Contract Documents (except as otherwise specifically provided).
- B. Additional Work performed by the ESS CONTRACTOR without prior written authorization by the COMMISSION as set forth in the Contract Documents will not entitle the ESS CONTRACTOR to an increase in the Contract Price or an extension of the Contract Time.

8.02 NOTICE OF INTENT TO MAKE CLAIM

- A. If COMMISSION and ESS CONTRACTOR are unable to agree as to the extent, if any, of an adjustment in the Contract Price or an adjustment of the Contract Times that should be allowed as a result of any order of COMMISSION pursuant to paragraph 8.01.A or other occurrence for which the Contract Documents provide that such adjustment(s) may be made, a claim may be made therefor. Written notice of intent to make such a claim shall be submitted to the other party promptly and in no event more than 30 (thirty) days after the

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start of the occurrence or event giving rise to the claim.

8.03 CLAIM DOCUMENTATION

- A. Substantiating documentation shall be submitted by the claiming party within 30 (thirty) days after delivery of the notice required by paragraph 8.02.A.

8.04 INTERPRETATIONS OF THE CONTRACT DOCUMENTS

- A. In all cases of doubt as to the meaning of the Contract Documents or any other questions that may arise as to the character or scope of the Work and which relate to the functional requirements for the Project as described in the Contract Documents (excluding a written claim submitted by the ESS CONTRACTOR pursuant to Section 8.02 (A) of the General Conditions), the COMMISSION's ENGINEER shall be the arbiter and its decision shall be final and binding on the ESS CONTRACTOR.

8.05 DECISIONS BY COMMISSION'S ENGINEER ON ESS CONTRACTOR'S CLAIMS

- A. All claims by the ESS CONTRACTOR shall be referred initially to the COMMISSION's ENGINEER for decision. An initial decision by the COMMISSION's ENGINEER shall be required as a condition precedent to non-binding mediation, binding arbitration, or litigation of any and all claims between the ESS CONTRACTOR and the COMMISSION. Failure of the COMMISSION's ENGINEER to decide a claim within thirty (30) days shall be deemed denial of the claims submitted by the ESS CONTRACTOR.
- B. The COMMISSION ENGINEER will approve or reject claims, in writing, which shall state the reasons thereof and which shall notify the ESS CONTRACTOR of any change in the Contract Price or Contract Times or both. The approval or rejection of a claim by the COMMISSION's ENGINEER shall be final and binding upon the parties, subject to non-binding mediation, binding arbitration, or litigation.
- C. The ESS CONTRACTOR will notify the COMMISSION's ENGINEER, in writing, within fifteen (15) days of receipt of the COMMISSION's ENGINEER's decision as to whether the ESS CONTRACTOR disputes the COMMISSION ENGINEER's decision. Failure of the ESS CONTRACTOR to do so, in writing, within the time provided, shall be deemed to be an acceptance of the COMMISSION ENGINEER's decision, and an absolute and irrevocable waiver of the right of the ESS CONTRACTOR to further challenge the COMMISSION ENGINEER's decision. This provision shall be specifically enforceable in any court of competent jurisdiction.

8.06 DISPUTE RESOLUTION

- A. All claims, disputes, and other matters in question between the ESS CONTRACTOR and the COMMISSION for which the COMMISSION ENGINEER's decision is not final and binding on the ESS CONTRACTOR shall be resolved pursuant to Article 14 of these General Conditions.

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8.07 LIMITATIONS ON COMMISSION ENGINEER'S RESPONSIBILITY

- A. Neither the COMMISSION's ENGINEER's authority to act under this Article 8 nor any decision made by the COMMISSION's ENGINEER in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the COMMISSION's ENGINEER to the ESS CONTRACTOR, and Subcontractors/subconsultants, any of their agents or employees or any other person performing any of the Work.
- B. The COMMISSION's ENGINEER will not be responsible for the acts or omissions of the ESS CONTRACTOR, or any Subcontractors, or any of its agents or their employees, or any other persons performing the Work.

8.08 EXCEPTIONS

- A. ESS CONTRACTOR shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any Work performed that is not required by the Contract Documents as amended, modified and supplemented as provided in paragraph 3.03, except in the case of an emergency as provided in paragraph 6.18.

8.09 EXECUTION OF CHANGE ORDERS

- A. COMMISSION and ESS CONTRACTOR shall execute appropriate Change Orders or Written Amendments covering:
 - 1. Changes in the Work which are (i) ordered by COMMISSION pursuant to paragraph 8.01, (ii) required because of acceptance of *Defective* Construction under paragraph 11.08 or correcting Defective Work under paragraph 11.09 or (iii) agreed to by the parties; and
 - 2. Changes in the Contract Price or Contract Times which are agreed to by the parties.

8.10 NOTICE TO SURETIES

- A. If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any Bond to be given to a Surety, the giving of any such notice will be ESS CONTRACTOR's responsibility.

8.11 CONFORMANCE WITH REVENUE PROCEDURE 97-13

- A. The COMMISSION and ESS CONTRACTOR acknowledge and agree that this Agreement is intended to conform to the requirements of Revenue Procedure 97-13, 1997-1C.B. 632, and is to be interpreted consistently therewith. Notwithstanding any provisions in this Agreement to the contrary, the COMMISSION and ESS CONTRACTOR agree that the COMMISSION shall be under no obligation to pay, and shall not pay, compensation for services to the ESS CONTRACTOR for the maintenance of the Maintenance Contract for any annual period if such payment, or any portion thereof, would (i) result in less than 50% of the ESS CONTRACTOR's compensation for services for such period being based on a

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periodic fixed fee, or (ii) result in any portion of such compensation, in whole or in part, being based on a share of net profits, as such terms are defined in Rev. Proc. 97-13. The COMMISSION and the ESS CONTRACTOR agree that, for so long as tax-exempt obligations are outstanding with respect to the Maintenance Contract, the COMMISSION shall have the right to seek the opinion of a nationally recognized bond counsel firm, that any planned or proposed amendments or revisions to the Agreement shall not affect the tax-exempt status of any obligations outstanding with respect to the Maintenance Contract.

ARTICLE 9. CHANGE OF CONTRACT PRICE

9.01 GENERAL

- A. The Contract Price constitutes the total compensation (subject to authorized adjustments) payable to ESS CONTRACTOR for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by the ESS CONTRACTOR shall be at the ESS CONTRACTOR's sole cost and expense without change in the Contract Price.
- B. The Contract Price may only be changed by a Change Order or by a Written Amendment. Any claim for an adjustment in the Contract Price shall be asserted through written notice delivered by the party making the claim to the other party promptly in accordance with paragraph 8.02.A.
- C. The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price will be determined as follows:
 - 1. Where the Work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved;
 - 2. Where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with paragraph 9.01.C.3) or by mutually agreed unit prices;
 - 3. Where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under paragraph 9.01.C.2, on the basis of the Cost of the Work (determined as provided in paragraph 9.02) plus a ESS CONTRACTOR fee for the allowable percentage for overhead and profit identified hereinafter. The maximum percentage which shall be allowed for the ESS CONTRACTOR's combined overhead and profit shall be as follows: (i) for all such Work done by the ESS CONTRACTOR, the ESS CONTRACTOR may add up to ten percent (10%) of its actual net increase in the Cost of the Work, and (ii) for all such Work done by Subcontractors, each Subcontractor may add up to ten percent (10%) of its actual net increase in the Cost of the Work and the ESS CONTRACTOR may add up to five percent (5%) of the Subcontractor's actual net increase in the Cost of the Work; provided, however, that no overhead or profit shall be allowed on costs incurred in connection with premiums including, but not limited to, insurance

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or Bonds.

9.02 COST OF THE WORK

- A. Costs Included: The term Cost of the Work means the sum of all costs necessarily incurred and paid by ESS CONTRACTOR in the proper performance of the Work. Except as otherwise may be agreed to in writing by COMMISSION, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items and shall not include any of the costs itemized in paragraph 9.02.B:
1. Payroll costs for employees in the direct employ of ESS CONTRACTOR in the performance of the Work shall be as set forth under schedules of job classifications agreed upon by COMMISSION and ESS CONTRACTOR and as further detailed in RFP Tab 8, Proposal Forms.
 - a. Such employees shall include, without limitation, superintendents, foremen, maintainers and other personnel employed full-time at the Site. Payroll costs for employees not employed full time on the Site shall be apportioned on the basis of their time spent on the Project. Payroll costs shall include, without limitation, salaries and wages plus the cost of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work after regular working hours, on Saturday, Sunday or legal holidays, shall be included in the above to the extent authorized by COMMISSION.
 - b. Such employees shall also include engineers, systems analysts and software development professionals, Maintenance managers, and engineering technicians. For purposes of this paragraph 9.02.A.1.b, ESS CONTRACTOR shall be entitled to payment for these employees in an amount equal to the direct salary cost (annual salary/2080) times a factor of 2.75, for all services performed or furnished by such employees engaged on the Project.
 2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to ESS CONTRACTOR unless COMMISSION deposits funds with ESS CONTRACTOR with which to make payments, in which case the cash discounts shall accrue to COMMISSION. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to COMMISSION, and ESS CONTRACTOR shall make provisions so that they may be obtained.
 3. Payments made by ESS CONTRACTOR to Subcontractors for Work performed or furnished by Subcontractors.

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4. Payments made by ESS CONTRACTOR to Engineers for Design Professional Services provided or furnished by Engineers under a written agreement between ESS CONTRACTOR and a design professional.
5. Costs of special consultants (including testing laboratories, surveyors,) employed for services specifically related to the Work. Notwithstanding the foregoing, attorneys and accountants shall not be deemed special consultants.
6. Supplemental costs, including the following items not otherwise covered under the Contract Price, including but not limited the Monthly Fees set forth in RFP Tab 4, Price Proposal Instructions, paid to the ESS CONTRACTOR.
 - a. The proportion of necessary out of town transportation, travel and subsistence expenses of ESS CONTRACTOR's employees incurred in discharge of duties connected with the Work.
 - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office and temporary facilities at the Site and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost less market value of such items used but not consumed which remain the property of ESS CONTRACTOR.
 - c. Rentals of all Work equipment and machinery and the parts thereof whether rented from ESS CONTRACTOR or others in accordance with rental agreements approved by COMMISSION, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof--all in accordance with the terms of said rental agreements. The rental of any such equipment, machinery or parts shall cease when the use thereof is no longer necessary for the Work.
 - d. Sales, consumer, use or similar taxes related to the Work, and for which ESS CONTRACTOR is liable as imposed by Laws and Regulations.
 - e. Deposits lost for causes other than negligence of ESS CONTRACTOR, any Subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
 - f. Losses, damages and related expenses caused by damage to the Work not compensated by insurance or otherwise, sustained by ESS CONTRACTOR in connection with the furnishing and performance of the Work provided they have resulted from causes other than the negligence of ESS CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of COMMISSION. No such losses, damages and expenses shall be included in the Cost of the Work for the purpose of determining ESS CONTRACTOR's fee.
 - g. The cost of utilities, fuel and sanitary facilities at the Site.

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- h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the Site, express postage and similar petty cash items in connection with the Work.

B. Costs Excluded: The term Cost of the Work shall not include any of the following:

- 1. Payroll costs and other compensation of ESS CONTRACTOR's officers, executives, principals (of partnerships and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by ESS CONTRACTOR whether at the Site or in ESS CONTRACTOR's principal or a branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in paragraph 9.02.A.1 -- all of which are to be considered administrative costs covered by the ESS CONTRACTOR's fee.
- 2. Expenses of ESS CONTRACTOR's principal and branch offices other than ESS CONTRACTOR's office at the Site.
- 3. Any part of ESS CONTRACTOR's capital expenses, including, without limitation, interest on ESS CONTRACTOR's capital employed for the Work and charges against ESS CONTRACTOR for delinquent payments.
- 4. Costs due to the negligence of ESS CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including, but not limited to, the correction of Defective Work, disposal of materials or equipment wrongly supplied and making good any damage to property.
- 5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 9.02.A.

9.03 UNIT PRICES

- A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all of Unit Price Work an amount equal to the sum of the established unit prices for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Proposals and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by ESS CONTRACTOR will be finalized in Design and Approved by COMMISSION.
- B. Each unit price will be deemed to include an amount considered by ESS CONTRACTOR to be adequate to cover all ESS CONTRACTOR costs, including, without limitation, equipment, Construction and installation costs, and all overhead and profit for each separately identified item.

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- C. The parties acknowledge that the Contract Price may only be changed by a Change Order or by a Written Amendment. Any claim for an adjustment in the Contract Price shall be asserted through written notice delivered by the party making the claim to the other party promptly in accordance with paragraph 8.02.A.

ARTICLE 10. CHANGE OF CONTRACT TIMES

10.01 GENERAL

- A. The Contract Times (or Milestones) may only be changed by a Change Order or a Written Amendment.
- B. All Contract Times and Milestones are of the essence. If in the sole discretion of the COMMISSION, the rate of progress of the Work is not such as to insure its completion within the Contract Times (or Milestones), the COMMISSION shall have the right to order the ESS CONTRACTOR to utilize additional shifts, overtime Work and to employ more workmen and the ESS CONTRACTOR shall immediately comply with these orders, at the ESS CONTRACTOR's sole expense.

10.02 TIME EXTENSIONS

- A. Where ESS CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of the ESS CONTRACTOR, the Contract Times (or Milestones) may be extended in an amount equal to the time lost due to such delay if a claim is made therefor as provided in this paragraph 10.02 of Article 10 of these General Conditions. For purposes of the Contract Documents, delays beyond the control of ESS CONTRACTOR are delays caused by acts or neglect by COMMISSION, fires, floods, epidemics, acts of God or other force majeure events. Notwithstanding the foregoing, delays within the control of the ESS CONTRACTOR shall include, without limitation, delays attributable to and within the control of Subcontractors, Suppliers, delays caused by failing to start Work activities, inadequate or insufficient application of resources, lack of coordination of the Work by and/or between the ESS CONTRACTOR, contractors and/or Subcontractors, or any other inability to complete the Work within the Contract Times (or Milestones) due to any act or omission of the ESS CONTRACTOR, its Subcontractors, Suppliers, agents, servants, employees, anyone directly or indirectly employed by them or anyone for whose acts or omissions the ESS CONTRACTOR is responsible.
- B. Within five (5) calendar days after the commencement of the occurrence of the cause of the alleged delay, the ESS CONTRACTOR shall present in writing to the COMMISSION a detailed claim therefor. Such written claim shall describe the circumstances of the alleged delay. Furthermore, the information provided by such written claim shall be updated in writing, within fifteen (15) calendar days after the end of the alleged delay, and shall further specify the number of days allegedly delayed. In requesting an extension of time, the ESS CONTRACTOR shall furnish as part of the updated written claim specified in this paragraph 10 of these General Conditions, justification and supporting documentation as the COMMISSION deems necessary to determine whether the ESS CONTRACTOR is entitled to an extension of time under the provisions of the Contract Documents. This

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documentation shall include, but not be limited to, a schedule report illustrating the impact and net effect of the alleged delay on the critical path, diaries, time sheets, and correspondence. Failure to submit either the initial or the revised claim required by paragraph 10 of these General Conditions will be sufficient cause for denying the requested time extensions.

- C. After receipt of a request for an extension of time from the ESS CONTRACTOR, the COMMISSION will make a decision based on the facts and its findings and the COMMISSION's decision on the extension of the Contract Times (or Milestones) shall be final and binding on the ESS CONTRACTOR.
- D. The ESS CONTRACTOR's sole and exclusive remedy is to make a claim as provided in paragraph 10 of these General Conditions for an extension of the Contract Times (or Milestones). The COMMISSION shall not be liable to ESS CONTRACTOR for any claims, costs, losses, or damages (including, but not limited to, all fees and charges of Subcontractors, subconsultants, Suppliers, Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by the ESS CONTRACTOR on or in connection with any delays on the Project.
- E. For delays deemed to be beyond the control of the ESS CONTRACTOR, as determined by the COMMISSION in its sole discretion, the COMMISSION reserves the right, in its best interest, to negotiate the cost required to complete the Work in accordance with the Contract Times (or Milestones) and not extend the Contract Times (or Milestones).

ARTICLE 11. TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE CONSTRUCTION

11.01 DEFECTS

- A. ESS CONTRACTOR warrants and guarantees to the COMMISSION that all materials and equipment will be new unless otherwise specified and all Work will be of good quality and free from faults or defects and in accordance with the requirements of the Contract Documents and any inspections, tests or approvals required by the Contract Documents. All unsatisfactory Work, all faulty or Defective Work and all Work not conforming to the requirements of the Contract Documents or of such inspections, tests, or approvals shall be considered Defective. All Defective Construction may be rejected, corrected, or accepted as provided in the Contract Documents.

11.02 ACCESS TO CONSTRUCTION

- A. COMMISSION, COMMISSION's Consultants, other representatives, and personnel of COMMISSION, independent testing laboratories and governmental agencies with jurisdictional interests will have access to the Construction at the Site at reasonable times for their observation, inspecting and testing. ESS CONTRACTOR shall provide them proper and safe conditions for such access and advise them of ESS CONTRACTOR's Site safety procedures and programs so that they may comply therewith as applicable.

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11.03 TESTS AND INSPECTIONS

- A. If the Contract Documents or Laws or Regulations of any public body having jurisdiction require any part of the Construction specifically to be inspected, tested or approved, ESS CONTRACTOR shall assume full responsibility for arranging and obtaining such inspections, tests or approvals, pay all costs in connection therewith, and furnish COMMISSION the required certificates of inspection or approval. ESS CONTRACTOR shall also be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests or approvals required for COMMISSION's acceptance of materials or equipment to be incorporated in the Construction or of materials, mix designs, or equipment submitted for approval prior to ESS CONTRACTOR's purchase thereof for incorporation in the Construction.
- B. ESS CONTRACTOR shall give COMMISSION reasonable notice of the planned schedule for all required inspections, tests, or approvals.
- C. If any Construction (or the construction work of others) that is required to be inspected, tested or approved is covered by ESS CONTRACTOR without written concurrence of COMMISSION, it must, if requested by COMMISSION, be uncovered for COMMISSION's observation and recovered at ESS CONTRACTOR's expense.

11.04 UNCOVERING CONSTRUCTION

- A. If any Construction is covered contrary to the written request of COMMISSION, it must, if requested by COMMISSION, be uncovered for COMMISSION's observation and recovered at ESS CONTRACTOR's expense.
- B. If COMMISSION considers it necessary or advisable that covered Construction be observed by COMMISSION or inspected or tested by others, ESS CONTRACTOR, at COMMISSION's request, shall uncover, expose or otherwise make available for observation, inspection or testing as COMMISSION may require, that portion of the Construction in question, furnishing all necessary labor, material and equipment. ESS CONTRACTOR shall pay all costs and damages caused by or resulting from such uncovering, exposure, observation, inspection and testing and of satisfactory replacement or rework, (including, but not limited to, all fees and charges of engineers, architects, attorneys and other professionals, all court or arbitration or other dispute resolution costs, and all costs of repair or replacement of work of others).

11.05 COMMISSION MAY STOP THE CONSTRUCTION

- A. If the Construction is deemed by COMMISSION to be Defective, or ESS CONTRACTOR fails to supply sufficient skilled workers or suitable materials or equipment, or fails to furnish or perform the Construction in such a way that the completed Construction will conform to the Contract Documents, COMMISSION may order ESS CONTRACTOR to stop Construction or any portion thereof, until the cause for such order has been eliminated; however, this right of COMMISSION to stop Construction will not give rise to any duty on the part of COMMISSION to exercise this right for the benefit of ESS CONTRACTOR or any other party.

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11.06 CORRECTION OR REMOVAL OF DEFECTIVE CONSTRUCTION

- A. COMMISSION will have authority to disapprove or reject Defective Construction and will have authority to require special inspection or testing of the Construction whether or not the Construction is fabricated, installed, or completed. If required by COMMISSION, ESS CONTRACTOR shall promptly, as directed, either correct all Defective Construction, whether or not fabricated, installed or completed, or, if the Construction has been rejected by COMMISSION, remove it from the Site and replace it with non-Defective Construction. ESS CONTRACTOR shall bear all direct, indirect, and consequential costs of such correction or removal (including, but not limited to, fees and charges of engineers, architects, attorneys and other professionals) made necessary thereby.

11.07 CORRECTION PERIOD

- A. If within the guarantee period required by the Contract Documents or such longer period of time as may be prescribed by Laws or Regulations any Construction is found to be Defective, ESS CONTRACTOR shall promptly, without cost to COMMISSION and in accordance with COMMISSION's written instructions, (i) correct such Defective Construction, or, if it has been rejected by COMMISSION, remove it from the Site and replace it with Construction that is not Defective, and (ii) satisfactorily correct or remove and replace any damage to other Construction or the work of others resulting therefrom. If ESS CONTRACTOR does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, COMMISSION may have the Defective Construction corrected or the rejected Construction removed and replaced, and all costs and damages caused by or resulting from such removal and replacement (including, but not limited to, all fees and charges of engineers, architects, attorneys and other professionals, all court or arbitration or other dispute resolution costs, and all costs of repair or replacement of work of others) will be paid by ESS CONTRACTOR.
- B. In special circumstances where a particular item of equipment is placed in continuous service before Project Acceptance of all the Construction, the correction period for that item may start to run from an earlier date if so provided by Written Amendment.
- C. Where Defective Construction (and damage to other Construction resulting therefrom) has been corrected, removed or replaced under this paragraph 11.07, the correction period hereunder with respect to such Construction will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed or such longer period of time as required by Contract Documents, Laws or Regulations.

11.08 ACCEPTANCE OF DEFECTIVE CONSTRUCTION

- A. If, instead of requiring correction or removal and replacement of Defective Construction, COMMISSION prefers to accept it, COMMISSION may do so. ESS CONTRACTOR shall pay all costs attributable to COMMISSION's evaluation of and determination to accept such Defective Construction (such costs to include, but not be limited, to all fees and charges of engineers, architects, attorneys and other professionals and all court or arbitration or other dispute resolution costs). If any such acceptance occurs prior to final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with

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respect to the Construction; and COMMISSION shall be entitled to an appropriate decrease in the Contract Price, and, if the parties are unable to agree as to the amount thereof, COMMISSION may withhold from the ESS CONTRACTOR a sufficient amount of funds to compensate the COMMISSION for all costs and damages incurred or sustained by COMMISSION and all costs necessary to rectify the Defective Work pending resolution of the claim as provided in Article 8. If the acceptance occurs after final payment, an appropriate amount will be paid by ESS CONTRACTOR to COMMISSION.

11.09 COMMISSION MAY CORRECT DEFECTIVE CONSTRUCTION

- A. If ESS CONTRACTOR fails within the time specified by written notice by the COMMISSION to correct Defective Construction or to remove and replace rejected Construction as required by COMMISSION in accordance with paragraphs 11.06.A or 11.07.A, or if ESS CONTRACTOR fails to perform the Construction in accordance with the Contract Documents, or if ESS CONTRACTOR fails to comply with any other provision of the Contract Documents, COMMISSION may, after three (3) days' written notice to ESS CONTRACTOR, correct and remedy any such deficiency. In exercising the rights and remedies under this paragraph COMMISSION shall proceed expeditiously. In connection with such corrective and remedial action, COMMISSION may exclude ESS CONTRACTOR from all or part of the Site, take possession of all or part of the Construction, and suspend ESS CONTRACTOR's services related thereto, take possession of ESS CONTRACTOR's tools, appliances, construction equipment and machinery at the Site and incorporate in the Construction all materials and equipment stored at the Site or for which COMMISSION has paid ESS CONTRACTOR but which are stored elsewhere. ESS CONTRACTOR shall allow COMMISSION, COMMISSION's representatives, agents and employees, COMMISSION's other contractor's and consultants access to the Site to enable COMMISSION to exercise the rights and remedies under this paragraph. All costs and damages incurred or sustained by COMMISSION in exercising such rights and remedies will be charged against ESS CONTRACTOR and a Change Order will be issued incorporating the necessary revisions in the Contract Documents and COMMISSION shall be entitled to an appropriate decrease in the Contract Price, and, if the parties are unable to agree as to the amount thereof, COMMISSION may withhold from the ESS CONTRACTOR a sufficient amount of funds to compensate the COMMISSION for all costs and damages incurred or sustained by COMMISSION and all costs necessary to rectify the Defective Work pending resolution of the claim as provided in Article 8. Such costs and damages will include, but not be limited to, all fees and charges of engineers, architects, attorneys and other professionals, all court or arbitration or other dispute resolution costs and all costs of repair or replacement of work of others destroyed or damaged by correction, removal or replacement of ESS CONTRACTOR's Defective Construction. ESS CONTRACTOR shall not be allowed an extension of the Contract Times (or Milestones) because of any delay in the performance of the Construction attributable to the exercise by COMMISSION of COMMISSION's rights and remedies hereunder.

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ARTICLE 12. PAYMENTS TO ESS CONTRACTOR AND COMPLETION

12.01 PAYMENT SCHEDULE

- A. The payment schedule for the Construction portion of the Project established as provided in paragraphs 2.04.A and 2.06.A on the basis of the conformed payment schedule provided in RFP Tab 10, Exhibit 10-A to the RFP will serve as the basis for progress payments.
- B. The payment schedule for the Maintenance portion of the Project shall be based on a monthly payment schedule as set forth in the RFP Tab 8, Proposal Forms.

12.02 APPLICATION FOR PROGRESS PAYMENT

- A. Not more often than once a month, ESS CONTRACTOR shall submit to COMMISSION for review an Application for Payment filled out and signed by ESS CONTRACTOR covering the Work completed as of the date of the Application and accompanied by such supporting documentation as reasonably required by the COMMISSION.
- B. The format for submitting invoices shall be consistent with the requirements as stipulated by the New Jersey Department of Transportation ("NJDOT"), the Pennsylvania Department of Transportation ("PennDOT") and/or deemed acceptable to the COMMISSION. Sample invoices shall be submitted to the COMMISSION for approval a minimum of two (2) weeks prior to the first official request for payment.

12.03 ESS CONTRACTOR'S WARRANTY OF TITLE

- A. ESS CONTRACTOR warrants and guarantees that title to all Construction, Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to COMMISSION no later than the time of application of payment free and clear of all Liens. This paragraph 12.03.A does not apply to any documents covered by paragraph 3.04.A.

12.04 PROGRESS PAYMENTS

- A. Progress payments shall be made by the COMMISSION to the ESS CONTRACTOR according to the following procedure:
 - 1. COMMISSION will, within twenty (20) days of receipt of each Application for Payment, either process the Application for Payment, or return the Application to ESS CONTRACTOR indicating in writing its reasons for refusing to accept the Application. Not more than ten days after accepting such Application the amount will become due and when due will be paid by COMMISSION to ESS CONTRACTOR.
 - 2. No Progress Payment nor any partial or entire use or occupancy of the Project by the COMMISSION shall constitute an acceptance of any Work not in accordance with the Contract Documents.
- B. COMMISSION may refuse to make the whole or any part of any such payment, or because of subsequently discovered evidence or the results of subsequent inspections or tests,

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nullify any previous payment, to the extent that is reasonably necessary to protect COMMISSION from loss because:

1. The Work is Defective, or completed Work has been damaged requiring correction or replacement; or
2. The Contract Price has been reduced by Written Amendment or Change Order; or
3. COMMISSION has been required to correct Defective Work or complete Work in accordance with paragraph 11.09.A, or
4. COMMISSION has actual knowledge of the occurrence of any of the events enumerated in paragraphs 13.02.A.1 through A.4 inclusive; or
5. Claims have been made against COMMISSION on account of ESS CONTRACTOR's performance or furnishing of the Work; or
6. Liens have been filed in connection with the Work; or
7. There are other items entitling COMMISSION to a set off against the amount for which application is made.
8. The Proof of Concept for System Enhancement Phase 5, outlined in Tab 2 Technical Requirements, is unsuccessful. The full-scale deployment of the video analytics (VA) system shall be contingent on the successful installation and three (3) months of testing at two pilot (2) locations – one location with six cameras and the other with ten cameras. The test will verify that the performance of the VA on both Probability of Detection (POD) and False/Nuisance Alarm Rate (FAR/NAR) complies with the required performance specifications indicated in Tab 2 Technical Requirements. In case of the inability to successfully complete the 3-month test, the COMMISSION may decide at its own discretion to:
 - (1) Reject the system as a whole, remove VA from the scope of the ESS CONTRACTOR and deduct the price proposed by the ESS CONTRACTOR for the VA from its contract.
 - (2) Allow the ESS CONTRACTOR an additional, agreed-upon, period of time to correct and/or improve the system and repeat the test for a duration set by the COMMISSION.
 - (3) Accept the system with reduced performance, and reduce its price by an amount negotiated between the COMMISSION and ESS CONTRACTOR.

12.05 SUBSTANTIAL COMPLETION

- A. When ESS CONTRACTOR considers the Construction of Phases 1 through 5 ready for its intended use in accordance with the definition of Substantial Completion set forth in these General Conditions, ESS CONTRACTOR shall notify COMMISSION in writing that the Construction of the applicable phase is Substantially Complete. Within a reasonable time thereafter, COMMISSION and ESS CONTRACTOR shall make an inspection of the Construction to determine the status of completion. If COMMISSION does not consider the

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Construction of the Phase Substantially Complete, COMMISSION will notify ESS CONTRACTOR in writing giving the reasons therefor. If COMMISSION considers the Construction of the applicable phase Substantially Complete, COMMISSION will prepare and deliver to ESS CONTRACTOR a certificate of Substantial Completion for the phase, which shall fix the date of Substantial Completion for the phase. The ESS CONTRACTOR shall be solely responsible for the legal fees, professional fees and all costs and expenses incurred by the COMMISSION resulting from or arising out of the need to re-inspect the Construction for Substantial Completion of the phase due to the ESS CONTRACTOR's failure to achieve Substantial Completion or Approval of the Operational Test for each applicable phase within the time period set forth in paragraph 3.01 of the Agreement.

- B. During the testing process to determine if the Approval of the Operational Test for the applicable phase or Project Acceptance has been achieved, COMMISSION will have the right to restrict ESS CONTRACTOR's access to the Site, but COMMISSION will allow ESS CONTRACTOR reasonable access to complete or correct items at the direction of the COMMISSION and to perform the testing to determine if Approval of the Operational Test or Project Acceptance is met.

12.06 PARTIAL UTILIZATION

- A. Use by COMMISSION at COMMISSION's option of any Substantially Completed part of the Construction which (i) has specifically been identified in the Contract Documents including, without limitation, the Work performed during Phases 1, 2, 3, 4 and 5 of the Project, or (ii) COMMISSION and ESS CONTRACTOR agree constitute a separately functioning and usable part of the Construction that can be used by COMMISSION for its intended purpose without significant interference with ESS CONTRACTOR's performance of the remainder of the Construction, may be accomplished prior to Substantial Completion of all the Construction subject to the following:

- (1) COMMISSION at any time may request ESS CONTRACTOR in writing to permit COMMISSION to use any such part of the Construction which COMMISSION believes to be ready for its intended use and Substantially Complete. If ESS CONTRACTOR agrees that such part of the Construction is Substantially Complete, ESS CONTRACTOR will certify to COMMISSION that such part of the Construction is Substantially Complete and request COMMISSION to issue a certificate of Substantial Completion for that part of the Construction. ESS CONTRACTOR at any time may notify COMMISSION in writing that ESS CONTRACTOR considers any such part of the Construction ready for its intended use and Substantially Complete and request COMMISSION to issue a certificate of Substantial Completion for that part of the Construction. Within a reasonable time after either such request, COMMISSION and ESS CONTRACTOR shall make an inspection of that part of the Construction to determine its status of completion. If COMMISSION does not consider that part of the Construction to be Substantially Complete, COMMISSION will notify ESS CONTRACTOR in writing giving the reasons therefor. If COMMISSION considers that part of the Construction to be Substantially Complete, the provisions of paragraph 12.05 will apply with respect

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to certification of Substantial Completion of that part of the Construction and the division of responsibility in respect thereof and access thereto.

12.07 FINAL INSPECTION

- A. Upon written notice from ESS CONTRACTOR that the entire Construction or an agreed portion thereof is complete, COMMISSION will make a final inspection with ESS CONTRACTOR and will notify ESS CONTRACTOR in writing of all particulars in which this inspection reveals that the Construction is incomplete or Defective. ESS CONTRACTOR shall immediately take such measures as are necessary to complete such Construction or remedy such deficiencies. The ESS CONTRACTOR shall be solely responsible for the legal fees, professional fees and all costs and expenses incurred by the COMMISSION resulting from or arising out of the need to do additional final inspections of the Construction due to the ESS CONTRACTOR's failure to satisfactory, fully and finally complete the Construction in accordance with the Contract Documents.

12.08 FINAL APPLICATION FOR PAYMENT FOR THE ELECTRONIC SURVEILLANCE AND DETECTION SYSTEM (ESS) ACQUISITION AND IMPLEMENTATION COSTS

- A. After ESS CONTRACTOR has completed all such corrections to the satisfaction of COMMISSION, successfully achieved Project Acceptance, and delivered in accordance with the Contract Documents all Maintenance and operating instructions, schedules, guarantees, Bonds, certificates or other evidence of insurance required by paragraph 5.04.B, certificates of inspection, marked-up record documents (as provided in paragraph 6.12) and other documents required by the Contract Documents, including, without limitation, the Project Closeout Documentation, ESS CONTRACTOR may make application for final payment for the ELECTRONIC SURVEILLANCE AND DETECTION SYSTEM (ESS) Acquisition and Implementation costs following the procedure for progress payments. The final Application for Payment shall be accompanied (unless previously delivered) by: (i) all documentation called for in the Contract Documents, including, but not limited to, the evidence of insurance required by paragraph 5.02, (ii) consent of the Surety, if any, to final payment, and (iii) complete and legally effective releases or waivers (satisfactory to COMMISSION) of all Liens arising out of or filed in connection with the Work. In lieu of such releases or waivers of Liens and as approved by COMMISSION, ESS CONTRACTOR may furnish receipts or releases in full and an affidavit of ESS CONTRACTOR that: (i) the releases and receipts include all labor, services, material and equipment for which a Lien could be filed, and (ii) all payrolls, material and equipment bills and other indebtedness connected with the Work for which COMMISSION or COMMISSION's property might in any way be responsible have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, ESS CONTRACTOR may furnish a Bond or other collateral satisfactory to COMMISSION to indemnify COMMISSION against any Lien.

12.09 FINAL PAYMENT FOR THE ELECTRONIC SURVEILLANCE AND DETECTION SYSTEM (ESS) ACQUISITION AND IMPLEMENTATION COSTS

- A. If COMMISSION is satisfied that the Work has been completed and ESS CONTRACTOR's

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other obligations under the Contract Documents have been fulfilled, COMMISSION will, within twenty (20) days after receipt of the final Application for Payment, process it for payment. Otherwise, COMMISSION will return the Application to ESS CONTRACTOR, indicating in writing the reasons for refusing to process final payment, in which case ESS CONTRACTOR shall make the necessary corrections and resubmit the Application. Thirty (30) days after the presentation to COMMISSION of the acceptable Application and accompanying documentation, in appropriate form and substance the amount will become due and will be paid by COMMISSION to ESS CONTRACTOR.

12.10 WAIVER OF CLAIMS

- A. The acceptance of final payment for Electronic Surveillance and Detection System (ESS) and Implementation costs will constitute:
 - 1. A waiver of all claims by ESS CONTRACTOR against COMMISSION other than those previously made in writing and still unsettled.

ARTICLE 13. SUSPENSION OF WORK AND TERMINATION

13.01 COMMISSION MAY SUSPEND WORK

- A. At any time and without cause, COMMISSION may suspend the Work or any portion thereof for a period of not more than 90 days by notice in writing to ESS CONTRACTOR which will fix the date on which Work will be resumed. ESS CONTRACTOR shall resume the Work on the date so fixed.

13.02 COMMISSION MAY TERMINATE FOR CAUSE

- A. The occurrence of any one or more of the following events justifies termination for cause:
 - 1. ESS CONTRACTOR persistently fails to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established under paragraph 2.06.A as revised from time to time).
 - 2. ESS CONTRACTOR disregards Laws or Regulations of any public body having jurisdiction.
 - 3. ESS CONTRACTOR otherwise violates in any way any provisions of the Contract Documents.
 - 4. ESS CONTRACTOR is adjudged as bankrupt or insolvent, or if ESS CONTRACTOR makes a general assignment for the benefit of its creditors, or if a trustee or receiver is appointed for the ESS CONTRACTOR or for any of its property, or if it files a petition to take advantage of any debtor's act, or to reorganize under the bankruptcy or similar law.

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- B. COMMISSION may, after giving ESS CONTRACTOR (and the Surety, if any) seven days' written notice and to the extent permitted by Laws and Regulations, terminate the services of ESS CONTRACTOR, exclude ESS CONTRACTOR from the Site and take possession of the Work and of all ESS CONTRACTOR's tools, appliances, Construction equipment and machinery at the Site and use the same to the full extent they could be used by ESS CONTRACTOR (without liability to ESS CONTRACTOR for trespass or conversion), incorporate in the Work all materials and equipment stored at the Site or for which COMMISSION has paid ESS CONTRACTOR but which are stored elsewhere, and finish the Work as COMMISSION may deem expedient. In such case ESS CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price for Electronic Surveillance and Detection System (ESS) Acquisition and Implementation costs exceeds all costs, losses and damages sustained by COMMISSION arising out of or resulting from completing the Work (including but not limited to all fees and charges of engineers, architects, attorneys and other professionals and all court or arbitration or other dispute resolution costs) such excess will be paid to ESS CONTRACTOR. If such costs, losses and damages exceed such unpaid balance, ESS CONTRACTOR shall pay the difference to COMMISSION. Such costs, losses and damages incurred by COMMISSION will be incorporated in a Change Order, provided that when exercising any rights or remedies under this paragraph COMMISSION shall not be required to obtain the lowest price for the Work performed.
- C. Where ESS CONTRACTOR's services have been so terminated by COMMISSION, the termination will not affect any rights or remedies of COMMISSION against ESS CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys due ESS CONTRACTOR by COMMISSION will not release ESS CONTRACTOR from liability.
- D. ESS CONTRACTOR shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

13.03 COMMISSION MAY TERMINATE FOR CONVENIENCE

- A. Upon seven days' written notice to ESS CONTRACTOR, COMMISSION may, without cause and without prejudice to any other right or remedy of COMMISSION, elect to terminate the Agreement. In such case, ESS CONTRACTOR shall be paid (without duplication of any items) for:
1. Completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including the allowable sums for overhead and profit on such Work as set forth in paragraph 9.01.C.3;
 2. Expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials or equipment as required by the Contract Documents in connection with uncompleted Work, including the allowable sums for overhead and profit on such expenses as set forth in paragraph 9.01.C.3; and
 3. Reasonable expenses directly attributable to termination.

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- B. ESS CONTRACTOR shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

ARTICLE 14. DISPUTE RESOLUTION

- A. In the event that the ESS CONTRACTOR properly disputes, in writing, any decision of the COMMISSION's ENGINEER with respect to any claims submitted by the ESS CONTRACTOR to the COMMISSION's ENGINEER pursuant to Paragraph 8.05 of these General Conditions, then the COMMISSION and the ESS CONTRACTOR agree to submit such claim to non-binding mediation as a first stage of dispute resolution prior to any proceedings in binding arbitration or litigation.
- B. In non-binding mediation, the parties shall endeavor to resolve claims, disputes and other matters in question between them. The non-binding mediation will proceed before a single mediator, who will be agreed upon by the parties. In the event the parties cannot agree on a mediator, the mediator will be chosen, and the non-binding mediation shall proceed, in accordance with the Construction Industry Mediation Rules of the American Arbitration Association currently in effect. In such event, a request for non-binding mediation shall be filed in writing with the COMMISSION, ESS CONTRACTOR, and with the American Arbitration Association. The non-binding mediation shall proceed in advance of binding arbitration and other legal or equitable proceedings, which shall be stayed pending non-binding mediation.
- C. The parties shall share the mediator's fee and any filing fees equally. The non-binding mediation shall be held in a location selected by the COMMISSION. Agreements reached in non-binding mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.
- D. The ESS CONTRACTOR will notify the COMMISSION, in writing, within fifteen (15) days of the end of the non-binding mediation process if the ESS CONTRACTOR believes that non-binding mediation was unsuccessful in resolving the claims between the COMMISSION and the ESS CONTRACTOR. Within fifteen (15) days of receipt of such notice from the ESS CONTRACTOR, the COMMISSION may, in its sole discretion, elect to proceed to binding arbitration or litigation. If the COMMISSION elects to proceed with binding arbitration, the binding arbitration shall proceed in advance of legal or equitable proceedings, which shall be stayed pending binding arbitration.
- E. If the COMMISSION elects to proceed to binding arbitration, then all claims by the ESS CONTRACTOR under \$100,000 shall be submitted to a single arbitrator, who will be agreed upon by the parties. In the event the parties cannot agree upon the arbitrator, an arbitrator will be chosen, and the binding arbitration will proceed in the manner and in accordance with the Rules of the American Arbitration Association rules for the construction industry then in effect.
- F. If the COMMISSION elects to proceed to binding arbitration and if the ESS

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CONTRACTOR's claim exceeds \$100,000, then, unless the parties mutually agree otherwise, the binding arbitration will be decided by a panel of three arbitrators. Each of the parties will choose one (1) arbitrator, and the two (2) arbitrators will then choose the third arbitrator by agreement between them. In the event that either party fails to choose its designated arbitrator within thirty (30) days of receipt of a written notice of the COMMISSION's election to proceed with binding arbitration, then the party not in default of its option to choose an arbitrator may choose the arbitrator for the other party. The two (2) arbitrators will then, as provided hereinabove, choose the third arbitrator.

- G. All arbitration and filing fees and costs shall be shared equally between the parties. The binding arbitration shall be held in a location selected by the COMMISSION. Agreements reached in binding arbitration shall be enforceable as settlement agreements in any court having jurisdiction thereof.
- H. Alternatively, in the event that non-binding mediation is unsuccessful in resolving the claims between the COMMISSION and the ESS CONTRACTOR, the COMMISSION may elect to proceed to litigation. If the COMMISSION elects to proceed to litigation, then all claims, disputes and other matters in question between the ESS CONTRACTOR and the COMMISSION arising out of, or relating to the Contract Documents or breach thereof, except for claims which have been waived by making or acceptance of final payment shall be decided in a court having competent jurisdiction. No litigation arising out of or relating to the Contract Documents shall include by consolidation, joinder or in any other matter, the COMMISSION's ENGINEER, their employees or consultants except by written consent containing a specific reference to the COMMISSION-ESS CONTRACTOR Agreement and signed by the COMMISSION's ENGINEER, the COMMISSION, the ESS CONTRACTOR and any other person sought to be joined. No litigation shall include by consolidation, joinder or in any other matter, parties other than the COMMISSION, the ESS CONTRACTOR and any other persons substantially involved in a common question of fact or law, whose presence is required if complete relief is to be accorded in the litigation. No person other than the COMMISSION or the ESS CONTRACTOR shall be included as an original third party to litigation whose interest or responsibility is insubstantial. Any consent to litigation involving an additional person or persons shall not constitute consent to litigation of any dispute not described therein or with any person not named or described therein. The foregoing agreement to litigate and any other agreement to litigate with an additional person or persons duly consented to by the parties to the COMMISSION-ESS CONTRACTOR Agreement shall be enforceable under prevailing law.
- I. Notice of litigation shall be filed in writing with the other party to the COMMISSION-ESS CONTRACTOR Agreement and with the court having competent jurisdiction, and a copy shall be filed with the COMMISSION's ENGINEER. The litigation shall be made within the time limits specified herein, where applicable, and in all other cases within a reasonable time after the claim, dispute and other matter in question has arisen, and in no event shall it be made after the date when institution of legal or equitable proceedings based on such claim, dispute or other matter in question would be barred

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by the applicable statute of limitations.

- J. Unless otherwise agreed in writing, the ESS CONTRACTOR shall carry on the Work and maintain its progress during any proceedings (e.g., non-binding mediation, binding arbitration or litigation).
- K. In the event that non-binding mediation is unsuccessful in resolving the claims between the COMMISSION and the ESS CONTRACTOR, the COMMISSION will notify the ESS CONTRACTOR, in writing, within thirty (30) days of the conclusion of the non-binding mediation as to whether the COMMISSION has elected to proceed with binding arbitration or litigation. In the event that the COMMISSION does not so notify the ESS CONTRACTOR in writing, of its decision to proceed with either binding arbitration or litigation it will be deemed that the COMMISSION has elected not to proceed with any dispute resolution mechanism and the ESS CONTRACTOR may proceed, to the extent otherwise permitted by law, to bring its claim in any court of competent jurisdiction.

ARTICLE 15. LICENSE TO SOFTWARE

- A. For any software programs and applications developed for use or provided under the Contract Documents, ESS CONTRACTOR shall provide a perpetual, non-exclusive, transferable, fully paid, irrevocable, assignable license to the COMMISSION in exchange for adequate consideration which is included in the Contract Price and, at no additional charge to the COMMISSION, which shall permit the COMMISSION, and its employees, agents, contractors and other authorized users, to install, store, operate, use, modify, and customize, all ESS CONTRACTOR underlying works and ESS CONTRACTOR derivatives and updates thereto that are or may become needed in order to allow the COMMISSION to install, store, operate, use, modify, and customize the software as more fully described herein and in the Contract Documents. ESS CONTRACTOR shall also offer to the COMMISSION the right to receive Maintenance (including all enhancements and upgrades) and support with respect to such ESS CONTRACTOR underlying works and ESS CONTRACTOR derivatives for so long as the COMMISSION requires, at rates as least as good as ESS CONTRACTOR is offering to other customers for services of a similar nature and scope. Thereafter, the COMMISSION shall have the right to install, store, operate, use, modify and customize the software, or to have third parties install, store, operate, use, modify, and customize the software, and in the event applicable, the COMMISSION shall own all title to and rights in any modifications or customizations of the software. To effect the intent of the foregoing, COMMISSION and ESS CONTRACTOR shall enter into that certain Software License Agreement, a form of which is attached hereto and made a part of RFP Tab 5, Agreement, Exhibit A, and that certain Software Escrow Agreement, which is an exhibit to such Software License Agreement.
- B. Prior to depositing the software and related documentation into Escrow, the ESS CONTRACTOR shall submit the name of the Escrow Agent to the COMMISSION for its approval.

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ARTICLE 16. MISCELLANEOUS

16.01 GIVING NOTICE

A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given.

1. If delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended;
2. If delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice; or
3. If transmitted by facsimile, the time at which a machine generated confirmation states the notice was received at the facsimile telephone number of the intended recipient last known by the sender.
4. Any notice to the COMMISSION shall be addressed as follows:

If to the COMMISSION: Delaware River Joint Toll Bridge Commission
New Hope Executive Office
2492 River Road
Solebury, PA 18938
Attn: Mr. Joseph J. Resta, Executive Director

If a legal matter copies to: William Sasso, Esquire
Stradley Ronon Stevens and Young, LLP
2005 Market Street, Suite 2600
Philadelphia, PA 19103

and

Michael Perrucci, Esquire
Florio, Perrucci, Steinhardt and Fader
235 Frost Avenue
Phillipsburg, NJ 08865

16.02 COMPUTATION OF TIMES

- A. When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.
- B. A calendar day of twenty-four (24) hours measured from midnight to the next midnight will constitute a day.

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16.03 NOTICE OF CLAIM

- A. Should ESS CONTRACTOR suffer injury or damage to person or property because of any error, omission or act of the other party or of any of the other party's employees or agents or others for whose acts the other party is legally liable, claim will be made in writing to the other party within thirty (30) days of the first observance of such injury or damage. The provisions of this paragraph 16.03.A shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitations or repose.

16.04 CUMULATIVE REMEDIES

- A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto, and, in particular but without limitation, any general or specific warranties, guarantees and indemnities imposed upon ESS CONTRACTOR and all of the rights and remedies available to COMMISSION thereunder, are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee or by other provisions of the Contract Documents, and the provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right and remedy to which they apply.

16.05 SURVIVAL OF OBLIGATIONS

- A. All representations, indemnifications, warranties and guarantees of the ESS CONTRACTOR made in, required by or given in accordance with the Contract Documents, as well as all continuing obligations of the ESS CONTRACTOR indicated in the Contract Documents, will survive final payment, completion and acceptance of the Work and termination or completion of the Agreement.

16.06 WAIVER OF LIENS

- A. The ESS CONTRACTOR shall execute a Waiver of Liens in a form acceptable to the COMMISSION.

16.07 RESPONSIBILITY PROVISIONS

- A. The ESS CONTRACTOR certifies, for itself and all its Subcontractors, that as of the date of its execution of the Agreement, that neither the ESS CONTRACTOR, nor any Subcontractors, nor any Suppliers are under suspension or debarment by the Commonwealth of Pennsylvania, the State of New Jersey or any governmental entity, instrumentality, or authority and, if the ESS CONTRACTOR cannot so certify, then it agrees to submit, along with its Proposal, a written explanation of why such certification cannot be made. Furthermore, the ESS CONTRACTOR agrees to complete the Certificate of Eligibility, the form of which is included in the Contract Documents, stating that the ESS CONTRACTOR is duly authorized to do business in the Commonwealth of Pennsylvania and the State of New Jersey.

- B. The ESS CONTRACTOR also certifies that, as of the date of its execution of the Agreement,

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it has no tax liabilities or outstanding Commonwealth of Pennsylvania or State of New Jersey obligations.

- C. The ESS CONTRACTOR's obligations pursuant to these provisions are ongoing from and after the Effective Date of the Agreement through the termination date thereof. Accordingly, the ESS CONTRACTOR shall have an obligation to inform the COMMISSION if, at any time during the term of the Agreement, it becomes delinquent in the payment of taxes, or other Commonwealth of Pennsylvania or State of New Jersey obligations, or if it or any of its Subcontractors are suspended or debarred by the Commonwealth of Pennsylvania, the State of New Jersey, the federal government, or any other state or governmental entity. Such notification shall be made within fifteen (15) days of the date of suspension or debarment.
- D. The failure of the ESS CONTRACTOR to notify the COMMISSION of its suspension or debarment or the suspension or debarment of its Subcontractors or Suppliers by the Commonwealth of Pennsylvania, the State of New Jersey, any other state, or the federal government shall constitute an event of default of the Agreement by the ESS CONTRACTOR.
- E. The ESS CONTRACTOR agrees to reimburse the COMMISSION for the reasonable costs of investigation incurred by the COMMISSION for investigations of the ESS CONTRACTOR's compliance with the terms of this Paragraph 16.06 of these General Conditions. Such costs shall include, but shall not be limited to, salaries of investigators, including, without limitation, overtime, travel and lodging expenses, attorney's fees, professional fees, architect fees, construction management fees, expert witness fees, documentary fees and all other costs and expenses related thereto.

16.08 UNIFORM CONSTRUCTION CODE

- A. The ESS CONTRACTOR shall, where applicable, comply with all requirements of the Pennsylvania Uniform Construction Code, 35 P.S. § 7210.301 – 7210.304, as amended by S.B. 1139, Session of 2004, as further amended from time to time when the ESS CONTRACTOR is performing Work in the Commonwealth of Pennsylvania.
- B. The ESS CONTRACTOR shall, where applicable, comply with all requirements of the State Uniform Construction Code Act for New Jersey, 52:27D-119, et seq., as amended from time to time and the New Jersey Uniform Construction Code under N.J.A.C. 5:23-1.1 et seq., as amended from time to time when the ESS CONTRACTOR is performing Work in the State of New Jersey.

16.09 NON-COMMUNICATION ORDER

- A. All communication to the public or news media will be through or by the COMMISSION. The ESS CONTRACTOR shall not communicate with the public or news media other than through the COMMISSION.

16.10 WAIVERS

- A. Neither the failure nor any delay on the part of the COMMISSION to exercise any right,

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remedy, power, or privilege under the Contract Documents will operate as a waiver, nor will any single or partial exercise of any right, remedy, power or privilege preclude any other or future exercise of the same or of any other right, remedy, power, or privilege. Any waiver of such item with respect to any one occurrence will not be construed as a similar waiver with respect to any other occurrence.

16.11 FORUM SELECTION

- A. The parties agree that all actions, claims and disputes shall be brought in any state court of the State of New Jersey or the Commonwealth of Pennsylvania, or the United States District Court of New Jersey or the United States District Court for the Eastern District of Pennsylvania, as the COMMISSION so desires, and such courts shall have sole and exclusive jurisdiction and venue over such actions, claims and disputes arising out of or in connection with the Contract Documents, or the breach thereof.

16.12 LIMITATION OF ACTIONS

- A. Any action by ESS CONTRACTOR in connection with or arising out of the Contract Documents or the breach thereof, must be commenced by the ESS CONTRACTOR within the shorter of two (2) years after the expiration or termination of the Contract Documents or expiration of the applicable statute of limitations.

16.13 MUTUAL WAIVER OF CONSEQUENTIAL DAMAGES

- A. NOTWITHSTANDING ANYTHING IN THIS CONTRACT TO THE CONTRARY, AND EXCEPT FOR ANY CLAIMS FOR WHICH ESS CONTRACTOR HAS AGREED TO INDEMNIFY THE COMMISSION OR OTHER INDEMNIFIED PARTIES HEREUNDER, IN NO EVENT SHALL EITHER PARTY, ITS OFFICERS, DIRECTORS, AFFILIATES OR EMPLOYEES BE LIABLE FOR ANY FORM OF INDIRECT, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF USE, LOSS OF PRODUCTION, LOSS OF PRODUCT, LOSS OF REVENUE, PROFITS OR LOSS OF DATA DAMAGES WHETHER SUCH DAMAGES ARISE IN CONTRACT OR TORT, IRRESPECTIVE OF FAULT, NEGLIGENCE OR STRICT LIABILITY OR WHETHER SUCH PARTY HAS BEEN ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH DAMAGES.

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**TAB 7
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ARTICLE 1. AFFIRMATIVE ACTION REQUIREMENTS

- (1) The requirements set forth herein constitute the affirmative action requirements for Project activities under this Contract.

The goal for this Contract is for ten (10) percent of employees of ESS CONTRACTOR and its Subcontractors to be Minority Persons. For purposes of this Contract, a Minority Person shall mean an individual who is a citizen or lawful permanent resident of the United States who is Black (a person having origins in any of the black racial groups of Africa); Hispanic (a person of Spanish culture with origins in Mexico, South or Central America, Puerto Rico or Cuba, regardless of race); Asian American (a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands, regardless of race); American Indian or Alaskan Native (a person having origins in any of the original peoples of Northern America).

- (a) Designate a liaison officer authorized to administer this program in good faith in cooperation with COMMISSION'S affirmative action officer during the term of this Contract.
 - (b) Insert all advertisements for employees in connection with this Contract in newspapers having a large circulation in the area of the Work among minority groups.
 - (c) Conduct and direct systematic recruitment of employees in connection with this Contract through public and private employee referral sources likely to yield qualified minority group applicants, including, but not limited to, schools, colleges, unions, and minority group organizations.
 - (d) Use maximum effort to obtain the cooperation of unions to increase opportunities for minority groups for employment, training, and promotion.
 - (e) Provide assistance to minority group employees for entrance into training programs, i.e., apprenticeship and on-the-job training programs.
 - (f) Provide assistance to minority group employees in increasing their skills so that they may qualify for high paying employment.
- (2) Submit the Certification of Compliance with Affirmative Action Requirements, with the Proposal, stating compliance with these affirmative action requirements. Failure to submit the Certification of Compliance with Affirmative Action Requirements, or submission of a false Certification of Compliance with Affirmative Action Requirements will be reason to reject the Proposal.

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- (3) Work may be suspended, and any Subcontractor will not be approved for participation in the Contract, for failure to provide reasonable documentation of a good faith effort to achieve the goals of the affirmative action requirements.
- (4) Be responsible for all Subcontractors compliance with the affirmative action requirements and goals.
- (5) Submit payroll records on a monthly basis for all persons working on the Project and indicate those classified as a Minority Person.

ARTICLE 2. IDENTIFIED BUSINESS ENTERPRISE (IBE) PARTICIPATION

PROPOSERS submitting a PROPOSAL for this solicitation agree to abide by the COMMISSION's Contract Compliance Program ("CCP") Requirements. The COMMISSION's CCP is intended: (1) to promote and encourage minority, women, small, disadvantaged, disabled, and veteran owned businesses (referred to as "Identified Business Enterprises" or "IBEs") to participate in business opportunities with the COMMISSION; (2) to afford IBEs an equal opportunity to compete for work on the COMMISSION's contracts; and (3) to encourage contractors to provide subcontracting opportunities to certified IBEs by soliciting such firms for subcontracting opportunities. The COMMISSION and its contractors shall not discriminate on the basis of race, color, religion, gender, national origin, ancestry, age, marital or veteran status, medical condition, disability, sexual orientation, citizenship, or any other classification protected by law in the award and performance of contracts.

The COMMISSION encourages PROPOSERS to meet or exceed the twenty-five percent (25%) IBE participation target for COMMISSION contracts. However, PROPOSERS may comply without achieving the participation targets so long as they make and document Good Faith Efforts (as that phrase is defined in the Contract Compliance Program guidelines) that would allow IBE participation. PROPOSERS that do not meet the project's targets are subject to the Contract Compliance Department's ("CCD") Good Faith Efforts review.

To comply with the Contract Compliance Program, a PROPOSER has two (2) options: (1) Compliance Plan I - the PROPOSER may "Opt-In" and complete forms A and B by agreeing to meet or exceed the 25% participation target, or (2) Compliance Plan II - the PROPOSER may provide its Good Faith Efforts documentation (forms A through F) detailing their attempt to meet the 25% participation target. The Contract Compliance Program's guidelines and forms are more fully explained and available directly from the COMMISSION website (www.drjtbc.org) under Doing Business.

Any questions regarding preparation of the Compliance Plan should be directed to the CCD to the following:

Julio Guridy, Director
76 Broad Street
Phillipsburg, NJ 08865

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(908) 859-6417, ext. 3063 (office)
jguridy@drjtbc.org

IBE Payment Verification

The COMMISSION uses Elation Systems, Inc. for its payment verification system as a tool to improve communication between Prime Consultants and sub-consultants in the compliance, documentation and reporting of payments to sub-consultants.

The COMMISSION requires all awarded Prime Consultants to familiarize themselves with and use the Elation Systems in reporting monthly invoice payments to their sub-consultants. The Prime Consultant agrees as part of the contract award to fulfill the mandatory requirements of the COMMISSION's Payment Verification System.

The Prime Consultant must register and take online training with the COMMISSION's payment verification system, Elation Systems, for payment to all IBE sub-consultants. The web address for this registration is <http://www.elationsys.com/app/registration>, Promotion code: DRJTBC-2017.

ARTICLE 3. COORDINATION WITH COMMISSION AND COMMISSION'S CONTRACTORS

The right is reserved by the COMMISSION to do work with its own employees or by retaining its own Contractors during the duration of this Contract. The ESS CONTRACTOR shall cooperate with the COMMISSION'S employees and any other Contractors retained by the COMMISSION for this Project. The COMMISSION'S ENGINEER will resolve any disputed questions regarding the ESS CONTRACTOR's access to and cleaning up of the Site and priority of performance between the ESS CONTRACTOR, the COMMISSION'S employees and any Contractors retained by the COMMISSION. The ESS CONTRACTOR shall not make a claim for damages due to delays caused by acts or omissions of the COMMISSION'S employees or any other Contractors retained by the COMMISSION as the ESS CONTRACTOR's sole remedy shall be to submit a claim for an extension of the Contract Times (or Milestones) in accordance with the requirements of Article 10 of RFP Tab 6, General Conditions.

ARTICLE 4. DUTIES OF ESS CONTRACTOR UNDER APPLICABLE PREVAILING WAGE RATES

The attached general prevailing wage rates including contributions for employee benefits, have been determined by either the Secretary of Labor and Industry from Pennsylvania or the Commissioner of Labor from New Jersey.

- 3.1 The ESS CONTRACTOR shall pay no less than the wage rates determined by the Secretary of Labor and Industry from Pennsylvania for Work performed in Pennsylvania and no less than the wage rates determined by the Commissioner of Labor from New Jersey for Work performed in New Jersey. To the extent that there is a conflict between the wage rates determined by the Secretary of Labor and Industry from Pennsylvania and

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the Commission of Labor from New Jersey on any specific Project Site the ESS CONTRACTOR shall pay the higher of the two wage rates.

- 3.2 The attached general prevailing wage rates are those cash rates and fringe benefits in effect on the date the Contract is awarded. All applicable rate increases must be paid by the ESS CONTRACTOR, at its sole cost and expense, to the work force beginning on the date specified.
- 3.3 The workmen shall be paid no less than such general prevailing minimum wage rates and such other provisions to assure payment thereof as hereinafter set forth. If the ESS CONTRACTOR does not pay the itemized employee benefits portion of the general prevailing wage rates to a payee designated in a collective bargaining agreement, then the ESS CONTRACTOR shall pay them directly to the employee on each payday.
- 3.4 These Contract provisions shall apply to all Work performed under this Contract by the ESS CONTRACTOR and any Subcontractors.
- 3.5 The ESS CONTRACTOR shall insert in each of its subcontracts all of the stipulations contained in these required provisions and such other stipulations as may be required.
- 3.6 No workmen may be employed on the Project except in accordance with the classifications set forth herein. In the event that additional or different classifications are necessary the procedure set forth in the applicable regulations shall be followed.
- 3.7 All workmen employed or working on the Project shall be paid unconditionally, regardless of whether any contractual relationship exists, or the nature of any contractual relationship which may be alleged to exist between the ESS CONTRACTOR, Subcontractors and workmen, not less than once a week without deduction or rebate, on any account, either directly or indirectly, except authorized deductions, the full amounts due at the time of payment, computed at the rates applicable to the time worked in the appropriate classification.
- 3.8 The ESS CONTRACTOR and each Subcontractor shall post for the entire period of Construction the wage determination decisions set forth herein, including, without limitation, the effective date of any changes thereof, in a prominent and easily accessible place or places at the Site of the Work and at such place or places used by them to pay workmen their wages. The posted notice of wage rates must contain the following information:
 - (a) Name of Project
 - (b) Name of agency (Delaware River Joint Toll Bridge Commission) for which it is being constructed.
 - (c) The crafts and classifications of workmen listed herein.

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- (d) The general prevailing minimum wage rates determined for each craft and classification and the effective date of any changes.
 - (e) A statement advising workmen that if they have been paid less than the general prevailing minimum wage rate for their job classification or that the ESS CONTRACTOR and/or Subcontractor are not complying with these requirements in any manner whatsoever they may file a protest in writing with the COMMISSION'S ENGINEER within three (3) months of the date of the occurrence, objecting to the payment to the extent of the amount or amounts due or to become due to them as wages for Work performed on this Project. Any workmen paid less than the rate specified in the Contract shall have a civil right of action for the difference between the wage paid and the wages stipulated in the Contract, which right of action must be exercised within six (6) months from the occurrence of the event creating such right.
- 3.9 The ESS CONTRACTOR and all Subcontractors shall keep an accurate record showing the name, craft and/or classification, number of hours worked per day, and the actual hourly rate of wage paid (including, but not limited to, employee benefits) to each workman employed by ESS CONTRACTOR in connection with this Contract and such record must include, without limitation, any deductions from each workman. The record shall be preserved for two (2) years from the date of payment and shall be open at all reasonable hours to the inspection of the COMMISSION'S ENGINEER or his duly authorized representatives.
- 3.10 Apprentices shall be limited to such numbers as shall be in accordance with a bona fide apprenticeship program registered with and approved by the applicable State Apprenticeship and Training Programs. Any workman using the tools of a craft who does not qualify as an apprentice within the provisions of the subsection shall be paid the rate predetermined for journeymen in that particular craft and/or classification.
- 3.11 Wages shall be paid without any deductions except authorized deductions. Employers not parties to a contract requiring contributions for employee benefits which the COMMISSION'S ENGINEER has determined to be included in the general prevailing minimum wage rates shall pay the monetary equivalent thereof directly to the workmen.
- 3.12 Payment of compensation to workmen for Work performed on this Project on a lump sum basis, or a piece work system, or a price certain for the completion of a certain amount of Work, or the production of a certain result shall be deemed a violation of this Contract regardless of the average hourly earnings resulting therefrom.
- 3.13 The ESS CONTRACTOR and each Subcontractor shall file a statement each week and a final statement at the conclusion of the Work on this Contract with the COMMISSION, under oath, and in form satisfactory to the COMMISSION'S ENGINEER, certifying that all workmen have been paid wages in strict conformity with the provisions of the Contract, or, if any wages remain unpaid to set forth the amount of wages due and owing to each workman respectively.

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Prevailing Wage Rates can be found in TAB 9 of this RFP.

ARTICLE 5. ASBESTOS MANAGEMENT DURING CONSTRUCTION

- 4.1 The ESS CONTRACTOR is advised that the COMMISSION has instituted an Asbestos Management Plan (AMP) enforced at all of its facilities. The AMP includes, without limitation:
- (a) Written documentation of the asbestos identification survey data available at each facility, as well as records of previous asbestos abatement projects; and
 - (b) Written procedures to be followed by both the COMMISSION'S staff and all contracted parties relative to notification of personnel, especially construction staff, considerations regarding the presence of asbestos-containing materials and suspected asbestos-containing materials, and interface between contracted parties and the COMMISSION'S ENGINEER.
- 4.2 Further, the COMMISSION has standing contractual arrangements with an environmental consultant and an asbestos abatement contractor to provide assessment and abatement activities on an expedited basis when concerns arise on asbestos abatement projects.
- 4.3 The ESS CONTRACTOR is required to conduct its Work in accordance with the requirements of the AMP. The AMP specifically prohibits any ESS CONTRACTOR from handling of asbestos-containing materials in any way. Rather, the ESS CONTRACTOR shall notify the COMMISSION'S ENGINEER of any and all instances where the ESS CONTRACTOR believes that its Work may require disturbance of an asbestos-containing material, whether known or suspected. The COMMISSION'S ENGINEER, in consultation with its environmental consultant when necessary, will provide evaluation of conditions brought to its attention by the ESS CONTRACTOR.
- 4.4 As a matter of this Contract, the ESS CONTRACTOR is required to provide competent personnel to prospectively evaluate the ESS CONTRACTOR's Work areas, and consider what known asbestos-containing material (as identified in the AMP), or other suspect asbestos-containing material, is present in locations that may be disturbed by the ESS CONTRACTOR's Work activities. Further, the ESS CONTRACTOR is responsible for maintaining the presence of a 'Competent Person' as defined in the OSHA Asbestos Standard for Construction, on-site during all Work. That Competent Person shall be responsible for continuous evaluation of the ESS CONTRACTOR's Work area, especially relative to the potential of other suspect asbestos-containing material that may be encountered in previously concealed locations uncovered by the Work.
- 4.5 The COMMISSION shall respond within a reasonable period of time to the ESS CONTRACTOR's written notice of concern regarding potential asbestos management issues.

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- 4.6 The COMMISSION shall not be responsible for delays in execution of any portion of the ESS CONTRACTOR's Work arising from the COMMISSION'S response to notification of a potential asbestos management issue.

ARTICLE 6. ACT 3

In accordance with Act 3 of the 1978 General Assembly of the Commonwealth of Pennsylvania, (March 3, 1978 P.L. 6), as amended from time to time (73 P.S. Section 1881, et seq.), every public agency shall require that every Contract for the construction, reconstruction, alteration, repair, improvement or maintenance of public works contain a provision that, if any steel products are to be used or supplied in the performance of the Contract, only those steel products produced in the United States, as herein defined, shall be used or supplied in the performance of the Contract or any Subcontractors thereunder.

"Public Works" are defined as any structure, building, highway, waterway, street, bridge, transit system, airport or other betterment, Work or improvement whether of a permanent or temporary nature and whether for governmental or proprietary use. This term includes, but is not limited to, any railway, street railway, subway, elevated and monorail passenger or passenger and rail rolling stock, self-propped cars, gallery cars, locomotives, passenger buses, wires, poles and equipment for electrification of a transit system, rails, tracks, roadbeds, guideways, elevated structures, buildings, stations, terminals, docks, shelters and repairs to any of the foregoing.

"Steel products" are defined as products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two (2) or more of such operations, from steel made in the United States by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process and shall include cast iron products, machinery and equipment listed in United States Department of Commerce Standard Industrial Classification 25 (furniture and fixture), 35 (machinery, except electrical) and 37 (transportation equipment) and made of, fabricated from, or containing steel components. If a product contains both foreign and United States steel, such product shall be determined to be a United States steel product only if at least seventy-five percent (75%) of the cost of the articles, materials and supplies have been mined, produced or manufactured, as the case may be, in the United States. Transportation equipment shall be determined to be a United States steel product if it complies with Section 165 of Public Law 97-424 (96 Stat. 2136).

"United States" are defined as the United States of America and include all territory, continental or insular, subject to the jurisdiction of the United States.

In accordance with Act 161 of 1982 (June 18, 1982 P.L. 556) cast iron products shall also be included and produced in the United States. Act 144 of 1984 (July 9, 1984 P.L. 674) further defines "steel products" to include machinery and equipment. Act 142 of 1980 (Oct. 5, 1980 P.L. 693), Act 161 of 1982 and Act 141 of 1984 provide clarifications and penalties and the ESS CONTRACTOR shall abide by these Acts, as amended from time to time.

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The ESS CONTRACTOR shall provide a certification to the COMMISSION'S ENGINEER with each shipment of steel products delivered to the Project Site that such steel products comply with Act 3.

The provisions of Act 3 shall not be considered as waived under any circumstances unless the COMMISSION has determined that a certain steel product or products are not produced in the United States in sufficient quantities to meet the requirements of the Contract.

ARTICLE 7. EROSION CONTROL

In the event that the ESS CONTRACTOR performs excavation Work the ESS CONTRACTOR and its Subcontractors shall comply with all rules and regulations of Chapter 102, Title 25 of Pennsylvania Soils Erosion and Sedimentation Control (25 Pa. Code Section 102.1, et seq.). Prior to any grading, the ESS CONTRACTOR shall be responsible to obtain approval from the Department of Environmental Protection for an approved sedimentation and erosion control site plan and shall perform all necessary Site Work in accordance with said plan. The plan shall be available at the Site at all times. The ESS CONTRACTOR and its Subcontractors shall maintain all devices as required to control erosion caused by storing water and preventing dust and particles from being distributed off site.

Site Excavation: The ESS CONTRACTOR shall, not less than three (3) working days nor more than ten (10) working days prior to beginning excavation or demolition Work as defined in 73 P.S. § 176, request the location and type of facility owner lines at the Project Site by notifying the facility owner through a one call system as defined in 73 P.S. § 176. The ESS CONTRACTOR shall inform each operator employed at the Site of the Work of the information received with respect to location and type of underground installations and any other information required by the Pennsylvania Underground Utility Protection Act (73 P.S. § 176, et seq.). The ESS CONTRACTOR shall report immediately to the user of the underground installations and to the COMMISSION, any break or leak in its lines or dent, gouge, groove or other damage to such lines, to their coating or cathodic protection, made or discovered in the course of the excavation or demolition Work. Furthermore, the ESS CONTRACTOR shall become thoroughly acquainted with and comply with all other terms and conditions specified in the Pennsylvania Underground Utility Protection Act, as amended from time to time. Furthermore, the ESS CONTRACTOR shall complete the Site excavation in full compliance with all applicable standards, codes, laws, ordinances, regulations and/or requirements of any applicable State, Federal or governmental agency.

ARTICLE 8. ANTI-POLLUTION LEGISLATION

62 Pa. C.S.A. Section 3301 of the Commonwealth of Pennsylvania requires that PROPOSERS on construction contracts, for the Commonwealth of Pennsylvania be advised that there are provisions of Federal and State statutes, rules and regulations dealing with the prevention of environmental pollution and the preservation of public natural resources that affect the Project on which Proposals are being received. The PROPOSERS shall comply with all such provisions of Federal and State statutes, rules and regulations.

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ARTICLE 9. WORK HOURS AND BUILDING SECURITY

The Work hours for this Project shall be structured so as to minimize the impact to the COMMISSION'S operations, both inside the buildings and out on the roadways.

For outside plant Work, the Work shall be performed during working hours and ESS CONTRACTOR will not perform Work on Saturday, Sunday or any legal holiday without COMMISSION'S prior written consent, which shall not be unreasonably withheld. All Work involving traffic restrictions and/or closures are to be submitted by Thursday, 12 noon of the week prior to closure. Emergency work is governed by in Section 6.3, Tab 2.

For inside plant Work, the ESS CONTRACTOR shall schedule Work activities to accommodate the normal Work schedule for the facilities. The COMMISSION'S maintenance staff's work shift is 7 AM to 3:30 PM during the week; the administrative staff schedule is from 8:00 AM to 4 PM during the week; the toll operations staff schedule is 24 hours per day, seven days per week, including holidays.

The ESS CONTRACTOR shall arrange activities to normally provide the installation Work associated with the building facilities only between the hours of 4:30 PM and 1:30 AM (Monday thru Friday). Noisy Work activities shall comply with local noise ordinances, as applicable, and shall be performed during times when the building facilities are not occupied.

Where the ESS CONTRACTOR can readily identify Work activities which may be better performed during normal daytime hours and such Work activities will not affect the staff at the Site, the ESS CONTRACTOR may propose these activities for special consideration by the COMMISSION. The ESS CONTRACTOR's Proposal shall be submitted to the COMMISSION for consideration at least fourteen (14) calendar days before the Work activity is scheduled to be done. The Work shall be limited to those activities where excessive noise and debris will not contribute to a loss of operational performance of the COMMISSION. The COMMISSION shall be the sole judge in determining whether the ESS CONTRACTOR's proposed activities constitute an acceptable Proposal; and, in the event of a problem, will determine whether or not these activities can remain in effect or if they will be moved to the off-hours time schedule. No increase in the Contract Price will occur as a result of the ESS CONTRACTOR's decision to submit such a Proposal to the COMMISSION or the COMMISSION'S decision to approve or reject the ESS CONTRACTOR's Proposal.

The COMMISSION'S ENGINEER may permit additional working hours subject to formal review and approval and solely at the discretion of the COMMISSION'S ENGINEER.

In addition, the ESS CONTRACTOR shall implement a security program in association with accessing building facilities.

General Responsibilities / Duties: Any gate in the security fence opened by the ESS CONTRACTOR for the performance of the Work shall be controlled by the ESS CONTRACTOR

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to keep unauthorized vehicles and personnel from accessing the secured area. All gates used by the ESS CONTRACTOR shall be closed and secured when not in use.

The ESS CONTRACTOR shall maintain a daily list of all persons under its care, custody, or control including, without limitation, Subcontractors, Suppliers, etc., which are on Site. Unauthorized vehicles and personnel must be instructed to leave the area immediately.

All personnel involved in the Project must remain in the immediate vicinity of the Site. Random movement by personnel and vehicles throughout the facility is not permitted for purposes of safety and security.

Failure of the ESS CONTRACTOR to comply with safety and security directions from the COMMISSION'S ENGINEER shall result in termination of the Contract.

During the entire period of performance of the Contract, all security fencing shall remain intact.

ARTICLE 10. PERMISSIBLE NOISE LEVELS

The ESS CONTRACTOR shall take steps through the use of sound attenuating equipment and/or procedures as necessary to minimize noise generated by its operations in order to comply with all noise ordinances applicable to the Project.

ARTICLE 11. DESIGN SUBMISSIONS FOR TEMPORARY WORKS

This Article 10 refers to Work which calls for submission of plans and calculations for designs that include temporary structural supports.

Submit for approval structural design calculations, plans and details for temporary works. Have structural design calculations, plans, and details performed, signed, sealed by a professional engineer familiar with bridge construction, and registered in the Commonwealth of Pennsylvania and the State of New Jersey. Plans for temporary works shall demonstrate that the existing structure is not overstressed and that a safe loading condition exists at all times during Construction and during periods of unrestricted traffic.

ARTICLE 12. MINIMUM EQUIPMENT AND LABOR

The ESS CONTRACTOR shall provide sufficient manpower and resources to complete the Work. A competent resident superintendent shall be present at all times during construction and installation. Failure on any day to meet these requirements may cause the COMMISSION'S ENGINEER to prohibit the ESS CONTRACTOR from working that day. In such instances, the Contract Time will not be extended.

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ARTICLE 13. ADVANCE NOTICE OF TRAFFIC RESTRICTIONS

Notify the COMMISSION'S ENGINEER by Thursday, 12 noon (7) seven calendar days prior to the closure for any work that will affect the flow of traffic and provide the COMMISSION'S ENGINEER with details of the Work to be done. After notification, the COMMISSION will advise the public of these traffic restrictions and possible delays.

ARTICLE 14. EXISTING PAINT COATINGS

The COMMISSION makes no representation with regard to the number, type, thickness, and condition of the existing paint coatings. Some or all of the existing paint coatings may contain lead, basic lead silica chromate and other toxic metals.

The ESS CONTRACTOR is fully responsible for all existing conditions at the Work Site.

All Work in any way involving lead based paint, lead based painted steel, and/or basic lead silica chromate or other toxic metals shall be in compliance with all USEPA, NJDEP, PADEP, OSHA, USCG, and other regulatory agencies with jurisdiction, promulgating rules, regulations, standard and guidelines in effect during execution of the Work.

ARTICLE 15. PROTECTION OF EXISTING UTILITIES

The ESS CONTRACTOR is responsible for providing protection to prevent damage to existing utilities at all times. Any utilities damaged during Construction shall be replaced at the ESS CONTRACTOR's expense.

ARTICLE 16. REFERENCED STANDARD SPECIFICATIONS

The latest issue, revision, or amendment of the reference standards in effect on the date of submission of Proposals shall govern unless otherwise specified. In the event that there is a conflict between the terms of the Contract Documents and the referenced standard specifications, the terms of the Contract Documents shall govern. Other standards in addition to those listed are referenced in the Contract Documents.

Pennsylvania Department of Transportation Specification Publication 408/2003, and related interims and standards. Publication 408/2003 refers to the 2003 edition of the Specifications.

ARTICLE 17. PERSONNEL IDENTIFICATION BADGES

Each "on-site" employee assigned or attached to any organization associated with this Project must wear a Personnel Identification Badge at all times. Personnel Identification Badges shall

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display a passport style photograph and present information including, but not limited to, company name, employee name and affiliation.

The ESS CONTRACTOR shall provide the COMMISSION'S ENGINEER with "sample" Photo Identification Badge(s) for approval as well as a list of "on-site" employees for each of the above referenced organizations. "On-site" employees without a proper Photo Identification Badge shall not be permitted to remain on Site.

ARTICLE 18. ALLOWANCE FOR UNFORSEEN WORK

The ESS CONTRACTOR shall provide a predetermined allowance of \$600,000 for the performance of unforeseen work. This predetermined allowance shall be solely owned by the COMMISSION and as such the COMMISSION shall have sole discretion relating to the use of this predetermined allowance during Phases 2 and 3, as defined in Tab 6, General Conditions. Furthermore, after Substantial Completion, any unused portion of the allowance shall be credited back to the COMMISSION via a deduct Change Order, reducing the overall value of the Contract Price accordingly.

The value of any Work covered herein shall be determined in accordance with Article 9 of Tab 6 General Conditions.

ARTICLE 19. PARTNERING

In accordance with Section 104.01 of Publication 408, INTENT OF PLANS AND SPECIFICATIONS (Pennsylvania Department of Transportation Specification Publication 408/2003, and related interims and standards. Publication 408/2003 refers to the 2003 edition of the Specifications), and as follows:

- (a) Covenant of Good Faith and Fair Dealing. This Contract, in its performance and enforcement, imposes an obligation of good faith and fair dealing on the ESS CONTRACTOR and the COMMISSION. The ESS CONTRACTOR and the COMMISSION, with a positive commitment to honesty and integrity, agree to the following mutual duties:
- To function within the laws and statutes applicable to their duties and responsibilities,
 - To assist in the other's performance,
 - To avoid hindering the other's performance,
 - To proceed to fulfill obligations diligently, and
 - To cooperate in the common endeavor of the Contract.
- (b) Partnering. The COMMISSION intends to encourage the formation of a cohesive partnership with the ESS CONTRACTOR and its principal Subcontractors and Suppliers. This partnership will be structured to draw on the strengths of each organization to identify

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and achieve reciprocal goals. The objectives are effective and efficient Contract performance and completion of all Work within budget, on schedule, and in accordance with the Contract Documents.

This partnership will be bilateral in makeup, and participation will be required. Participation is a requirement of the Contract and, therefore, the costs associated with partnering are to be included in the Proposal.

To implement this partnering initiative prior to the start of Work, as specified in sections 108.02 and 108.03 of Publication 408, the ESS CONTRACTOR's management personnel and the COMMISSION'S ENGINEER are to organize a Partnering Seminar/Team Building Workshop as follows:

1. Facilitator. The ESS CONTRACTOR shall submit three names of experienced facilitators for the COMMISSION's consideration and approval. Provide qualifications and references for each of the three facilitators identified.
2. Attendees. Persons required to be in attendance are the COMMISSION'S ENGINEER, the COMMISSION'S Program Manager, ESS CONTRACTOR's Project Manager (Superintendent), Inspector-in-Charge, the ESS CONTRACTOR's home office manager, and key project personnel, Subcontractors and Suppliers. The Project design engineers, key specialty or technical personnel, utility management personnel, and key local government personnel should also be invited to attend, as necessary. The ESS CONTRACTOR may wish to have Regional and Corporate level managers in attendance. The COMMISSION may wish to have headquarters and managers in attendance.
3. Agenda. Workshop agenda is to consist of at least the following:
 - o Discussion of partnering principals
 - o Development of a Project charter with defined goals and objectives
 - o Defined problem-solving procedure and evaluation process

Approximately one-third of the workshop should be devoted to team building and problem-solving techniques, with the remainder of the time being devoted to defining Project goals and objectives and issue resolution.

4. Duration. Workshop duration should normally be a half day, but may be modified to Project related variables such as cost, complexity, number of stakeholders, Project personnel, partnering experience, number of potential issues, and other Project-related variables.
5. Location. The workshop is located at a "neutral" site, in Pennsylvania or New Jersey within twenty (20) miles of the Morrisville Administration Building, as approved by the COMMISSION.

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Follow-up workshops may be held periodically throughout the duration of the Contract as agreed to by the ESS CONTRACTOR and the COMMISSION.

Further, to conclude this partnering initiative, the ESS CONTRACTOR shall participate in a rededication ceremony to celebrate the conclusion of the Project.

The establishment of a partnership charter on this Project will not change the legal relationship of the parties to the Contract nor relieve either party of responsibility for any of the terms of the Contract.

6. Workshop shall be scheduled to take place two (2) weeks after the Contract Times commencement date.

ARTICLE 20. PROJECT SCHEDULE

(1) GENERAL

This Work consists of the preparation and maintenance of a Project Schedule using the Critical Path Method (CPM) of scheduling which shall be developed and used by the ESS CONTRACTOR to demonstrate ESS CONTRACTOR planning for the performance and progress of all activities, in accordance with Contract Documents.

By submitting a Proposal on the Project, the ESS CONTRACTOR is representing to the COMMISSION that the Project can be completed within the Contract Times and in accordance with all Project Milestone Dates identified in the Project Schedule. The ESS CONTRACTOR shall include any and all costs which may be incurred in order to meet all of the requirements of this Contract and to complete the Contract Work by the Contract Times, and in accordance with all Project Milestone Dates detailed in the Project Schedule and approved by the COMMISSION from time to time.

The following definitions apply:

- (a) **Critical Activities:** Activities that control the total duration of a Project, by forming a chain making up the longest sum of durations in a Project. This chain of critical activities forms the critical path of a Project.
- (b) **Float:** The length of time the start or finish of an activity can be delayed without delaying the Contract Times or Project Milestones Dates. Float is a shared commodity.
- (c) **Project Milestone Dates:** Contractual milestones as defined in the Project Schedule approved by the COMMISSION.

The ESS CONTRACTOR shall assign a person, with decision-making authority, responsible to manage this Work.

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The Project Schedule shall be prepared in the software and form as set forth in Section 3 of RFP Tab 2, Technical Requirements and shall be updated, presented and maintained in accordance with the requirements set forth therein.

(2) PROCEDURES

A. "Scheduling Conferences"

1. Attend a Scheduling conference with the COMMISSION'S ENGINEER as set forth in RFP Tab 6, General Conditions Article 2 Section 2.05
2. Be prepared to discuss concepts and the logic to be used in sequencing Work activities for development of the schedule.
3. In addition, designate a representative to serve as the CPM Scheduler as described in Section 3 of RFP Tab 2, Technical Specifications.

B. Preliminary Project Schedule

Submit and revise a Project Schedule which itemizes the Work and defines the ESS CONTRACTOR's plan for the completion of the Project as set forth in RFP Tab 6, General Conditions, Articles 2.04, 2.05 and 2.06. This Project Schedule will provide detail in full accordance with all requirements of the Contract Documents as well as summary logic for the full Contract Time. The use of lag or lead times in the Project Schedule is not permitted. All relationships shown are to be Finish to Start relationships. No Work on the Project will be permitted by the ESS CONTRACTOR or any Subcontractors until the COMMISSION'S ENGINEER receives, reviews, issues, comments, and accepts this Project Schedule. Additionally, no extension of Contract Time will be allowed for any delays associated with the ESS CONTRACTOR's preparation and the COMMISSION'S ENGINEER'S review and acceptance of the Project Schedule.

C. Project Schedule

As set forth above in this Article 19, and in RFP Tab 6, General Conditions Article 2 and in RFP Tab 2, Technical Requirements, ESS CONTRACTOR shall prepare, complete, and submit to the COMMISSION'S ENGINEER for review, a Project Schedule, incorporating the schedules for all Subcontractors, interfaces with Contractors on adjacent Contracts and utilities performing Work in full accordance with this Contract. As such, it will comply fully with all Contract provisions including, but not limited to, the requirements regarding Contract Time, Project Milestone Dates, coordination and cooperation with utility companies, governmental agencies, Construction noise restrictions and the requirements specified in Publication 408 Section 100 General Provisions.

Acceptance of the Schedule does not approve the ESS CONTRACTOR's estimate of resources (labor and equipment) or production rates. The ESS CONTRACTOR is responsible to perform all Work in accordance with the Schedule including all accepted

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revisions. However, nothing in the Schedule shall supersede the Contract Time requirements including, without limitation, all Project Milestone Dates, and all coordination and cooperation requirements of the Contract.

(3) **PROGRESS REVIEW MEETINGS**

- A. Progress meetings shall be conducted in accordance with the schedule, frequency and manner set forth in Sections 3.3 and 3.4 of the RFP Tab 2, Technical Requirements.

(4) **UPDATING**

- A. Schedule information shall be updated on a monthly basis as set forth in Section 3.3 of RFP Tab 2, Technical Requirements.
- B. Updates and Progress Reports shall be submitted as set forth in Section 3.3 of RFP Tab 2, Technical Requirements
- C. The Schedule will not be revised as long as the ESS CONTRACTOR actually performs the Work in the order and sequence shown on the Schedule. If the ESS CONTRACTOR changes the order of his operations on the Project so that the Schedule no longer indicates reasonable logic for completing the Contract, the ESS CONTRACTOR shall submit Schedule revisions to the COMMISSION'S ENGINEER for review, comment, and acceptance and comply with all comments issued by the COMMISSION'S ENGINEER as a result of such review without additional cost to the COMMISSION. Such a revision shall comply with all Contract Time requirements.
- D. If the COMMISSION revises the Work and affects the sequence of operations or duration of time on Work activities, the Schedule shall be revised promptly by the ESS CONTRACTOR in accordance with the Contract Documents by adding, deleting, or revising activities and/or changing restraints on the Schedule to indicate the ESS CONTRACTOR's current plans for completing the Work as revised. Submit such changes for the COMMISSION'S ENGINEER's review, comment, and acceptance, as described in subparagraph E, Section 4 of this Article.
- E. Immediately notify the COMMISSION'S ENGINEER if a problem arises requiring direction to the ESS CONTRACTOR by the COMMISSION'S ENGINEER. Identify in writing all changes in activity durations or planned Work sequences that impact the Contract Times or any Project Milestone Date and are caused by differing Site conditions, changes in quantities. The ESS CONTRACTOR shall completely identify the problem and describe "Who, What, When, Where, Why and How" the problem impacts the Schedule. The COMMISSION'S ENGINEER will verify the problem in accordance with the Contract and provide direction to the ESS CONTRACTOR. Submit a schedule report to the COMMISSION'S ENGINEER, outlining the effect that changes, or Work directed by the COMMISSION'S ENGINEER might have on the

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Schedule, within seven (7) calendar days after receiving the change or direction. In cases where a Change Order is required, the ESS CONTRACTOR shall revise the Schedule to accommodate the proposed change, the preparation of cost or credit estimates, issuance of the Change Order, negotiations, review and approval of samples, drawings, procurement of materials and the performance or deletion of Work. Submit proposed Schedule revisions to the COMMISSION'S ENGINEER for review, comment and acceptance.

(5) SUBMITTALS

- A. All data required as set forth in Section 3 RFP Tab 2, Technical Requirements shall be submitted in accordance with the requirements set forth in the Technical Requirements and in the Contract Documents.
- B. Failure by the ESS CONTRACTOR to submit a Project Schedule or any required revisions or updates thereto within the time limits specified, shall be sufficient cause for the COMMISSION'S ENGINEER to withhold processing of current payments until such delinquent submittal is made. Should the ESS CONTRACTOR fail to submit the schedule information within twenty-eight (28) calendar days, after the Project Schedule update, a material breach of Contract shall result from failure to provide the COMMISSION'S ENGINEER with the required schedule information. This material breach of Contract shall be considered to be the ESS CONTRACTOR's default of Contract, and as such, the ESS CONTRACTOR may be terminated for cause in accordance with the terms of the Contract Documents.
- C. The COMMISSION'S ENGINEER's review of a schedule shall in no way waive the requirements of this Contract nor shall it excuse the ESS CONTRACTOR of any obligations under this Contract. Should a situation occur, such that an activity required by the Contract is not accurately depicted in the schedule, and its insertion impacts the Contract Times, the ESS CONTRACTOR must take the necessary action to recover the lost time. These efforts will be made at no additional cost to the COMMISSION.

(6) RECOVERY SCHEDULE

- A. The COMMISSION reserves the right to require a Recovery Schedule and implementation of such a Recovery Schedule. All statements regarding progress shall be subject to verification by the COMMISSION'S ENGINEER. Revise such statements if necessary, to reflect any changes identified by the COMMISSION'S ENGINEER. All changes identified in a schedule revision shall be reviewed by the COMMISSION'S ENGINEER and shall be subject to acceptance or rejection on the basis of compliance with the Contract Documents. Accept and comply with all comments issued by the COMMISSION'S ENGINEER as a result of any review of a schedule.
- B. If the COMMISSION'S ENGINEER deems that the ESS CONTRACTOR has fallen ten (10) working days behind the Project Schedule (as measured in relation to the Contract

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Times and the Project Milestone Dates) upon the COMMISSION'S ENGINEER's written request, submit a written and documented Recovery Schedule. This Schedule must be submitted within seven (7) calendar days of the date of the COMMISSION'S ENGINEER's request or within such other period as the COMMISSION'S ENGINEER may specify in writing. The ESS CONTRACTOR shall implement the Recovery Schedule with no additional cost to the COMMISSION and provide for completion of the Work in accordance with the Contract Times and the Project Milestone Dates, without a time extension. Document in the Recovery Schedule all additional resources, including materials, equipment and labor, and modifications of operations which will be provided so as to meet the Recovery Schedule while maintaining Construction restrictions listed in the Contract unless approved otherwise by the COMMISSION'S ENGINEER. Provide all such additional resources and modifications of operations without additional cost to the COMMISSION. Such additional resources and modifications shall include, but not be limited to:

1. Required overtime for the ESS CONTRACTOR's personnel.
2. Increased Construction manpower in such quantities as will substantially eliminate the backlog of Work and put the Project back on schedule.
3. Increased number of shifts per working day, working days per week, or the amount of Construction equipment, or any combination of the foregoing which will put the Project back on schedule.
4. Rescheduled activities to achieve the maximum practical concurrence of accomplishment of activities to put the Project back on schedule.

Failure to provide the COMMISSION'S ENGINEER with the required Recovery Schedules and failure to implement such schedules within fourteen (14) calendar days of the COMMISSION'S ENGINEER's request shall be considered material breach of the Contract by the ESS CONTRACTOR. Continued failure to provide and implement a required Recovery Schedule for an additional fourteen (14) calendar days shall be considered to be the ESS CONTRACTOR's material breach of the Contract, and as such, the ESS CONTRACTOR may be terminated for cause in accordance with the terms of the Contract Documents.

(7) DRAWINGS

The ESS CONTRACTOR and COMMISSION'S ENGINEER shall maintain and monitor separate submission logs of all shop/work drawings, ESS CONTRACTOR design drawings, and other drawing submissions affecting the Work. In addition, the ESS CONTRACTOR shall submit a copy of the transmittal for each submitted drawing to the COMMISSION'S ENGINEER. The ESS CONTRACTOR and COMMISSION'S ENGINEER shall enter these submittal transactions into their respective submission logs. In order to effectively use the submission log, include, without

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limitation, the following information for each drawing and transmittal submitted, unless otherwise approved:

- (a) Project Name
- (b) Section Name 1
- (c) COMMISSION Contract Number
- (d) ESS CONTRACTOR
- (e) COMMISSION'S ENGINEER
- (f) ESS CONTRACTOR's Shop Drawing Number
- (g) Submittal Number (1st submission, 2nd submission, etc.)
- (h) Specification Section
- (i) Shop Drawing Description
- (j) Date of ESS CONTRACTOR's Submittal
- (k) The Schedule activity affected by the drawings

If the ESS CONTRACTOR's drawing and/or its transmittal do not have this information, the drawing and/or its transmittal will be returned without review. Incomplete drawings, as determined by the reviewing party, will also be returned marked "Incomplete". The ESS CONTRACTOR shall be responsible for any delays caused by incomplete drawing submissions.

After a drawing has been submitted once and has been reviewed, except as required to satisfy the review comments, do not add new information or details to that same drawing without the approval of the COMMISSION'S ENGINEER.

(8) SUBMISSION LOG

The purpose of the submission log is to schedule and monitor the date of each shop/work drawing submittal, ESS CONTRACTOR's designs and all other submissions required under this Contract, and the length of times for the COMMISSION'S ENGINEER's review, the number of times a submittal required resubmission by the ESS CONTRACTOR and length of time taken by the ESS CONTRACTOR to make resubmissions.

Submit an initial itemized submission log, together with a Ninety (90) Day Work Plan, within fifteen (15) calendar days of the Notice of Award of the Contract or prior to the Preconstruction Conference, referenced in Section 2.05 of RFP Tab 6, General Conditions, whichever occurs earlier. Submit a complete itemized submission log for the remainder of the Contract, together with the Detailed Construction Schedule, within forty-five (45) calendar days of the actual Notice to Proceed date. The itemized submission log shall conform to the Schedule and shall include, without limitation, all submittals required under this Contract.

Submittals shall be prioritized and shall be scheduled to allow the specified time for review. If the COMMISSION'S ENGINEER determines that the number of concurrent submissions scheduled for review and acceptance is excessive, allow an additional amount of time for review that is acceptable to the COMMISSION'S ENGINEER.

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The Submission log shall include, without limitation, the items listed in Section 7 of this Article 19 of the Supplementary Conditions titled Drawings plus the following information:

- (a) The COMMISSION'S ENGINEER's File Number
- (b) Date of COMMISSION'S ENGINEER's Reply to ESS CONTRACTOR's Submittal
- (c) Action by the COMMISSION'S ENGINEER
- (d) Number of Calendar Days a ESS CONTRACTOR has an Outstanding Drawing
- (e) Number of Calendar Days the COMMISSION'S ENGINEER has an Outstanding Drawing

The submittal date for each submission shall be incorporated into the Schedule. Unless otherwise agreed to by the COMMISSION in writing the Schedule submissions to the COMMISSION should allow for a minimum of fourteen (14) calendar days review by the COMMISSION. This fourteen (14) calendar day period begins when the COMMISSION'S ENGINEER acknowledges receipt of the submission.

The ESS CONTRACTOR shall be responsible for all time required for resubmissions required to conform to the conditions set forth in the Contract Documents.

ARTICLE 21. MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION

Traffic flow on the COMMISSION'S facilities should be maintained and protected at all times. It is expected that restrictions on traffic will be kept to a minimum. Any restrictions on traffic must be approved by the COMMISSION. The COMMISSION reserves the right to reject or modify any proposed traffic restriction plans. The ESS CONTRACTOR may request support from the STATE POLICE, if required.

The ESS CONTRACTOR shall be required to develop a Maintenance and Protection of Traffic Plan for this Project. The ESS CONTRACTOR shall use the techniques and guidelines set forth in Section 901 of PennDOT Publication 408, and submit the plan for approval to the COMMISSION.

Notify the COMMISSION'S ENGINEER by Thursday, 12 noon (7) seven calendar days prior to implementing any Maintenance and Protection of Traffic activities during Construction.

Peak traffic flow times should be taken into account by the ESS CONTRACTOR when proposing traffic restrictions. The COMMISSION will not approve any traffic restrictions during peak traffic conditions.

No restrictions will be approved for Work during a holiday or holiday weekend, including, without limitation, the day before and day after the holiday or holiday weekend.

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No restrictions will be approved that result in the complete closure of any bridge for any period of time.

In general, traffic restrictions are expected to be short-term in nature. Restrictions shall only be in place when active Work is being performed.

Designate an individual as Traffic Control Coordinator responsible for the maintenance and protection of traffic items. Assure that this individual is adequately trained and responsible for the maintenance and protection of traffic. Furnish the name of the Traffic Control Coordinator, address, and telephone number where the supervisor can be reached at all times. Have the supervisor available to respond to complaints relating to deficiencies concerning maintenance and protection of traffic within twenty (20) minutes of notification. The supervisor is responsible for providing additional personnel required to correct maintenance and protection of traffic deficiencies. Additionally, the supervisor is responsible for assisting in traffic control as a result of accidents on the Project that back traffic up beyond the limits of Work. Additional personnel are required to respond within twenty (20) minutes of notification. At least (7) seven days prior to any traffic restrictions, make available and review with the COMMISSION'S ENGINEER, local Police Departments, Pennsylvania State Police, New Jersey State Police and other interested emergency management agencies, the proposed emergency implementation plan including, without limitation, name, address, and telephone number of the Traffic Control Supervisor.

Make adjustments as necessary to fit existing field conditions with the approval of the COMMISSION'S ENGINEER.

All vehicles entering and leaving the Work area shall do so in a manner that is not hazardous to or does not interfere with highway or local traffic.

ESS CONTRACTOR is responsible for coordinating Construction activities and maintenance and protection of traffic with all other Contractors and Subcontractors of adjacent construction projects under contract with the COMMISSION. All costs associated with coordination will be the responsibility of the ESS CONTRACTOR.

Assure that warning vests, shirts, or jackets (orange) are worn by all employees engaged in Work operations. When working at night, the employee's safety garments are to be reflectorized.

ARTICLE 22. CLEANING AND RESTORATION OF PROJECT SITE

The ESS CONTRACTOR shall be responsible for cleanup of the Project Site after Work is complete.

Remove silt and other deposits from newly constructed outside plant Work. Clean and remove surplus and discarded material, equipment, and temporary structures from the Project and adjacent properties, including, without limitation, waste and easement areas. Remove debris and objectionable material from areas used or disturbed by the Construction operations on, or within sight of, the COMMISSION'S bridges, facilities, and other COMMISSION property. Remove paint

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marks or spills, stains, rust marks, oil, or any other unsuitable marks, as directed. Any materials or waste that is hazardous and/or toxic in nature shall be disposed of according to the applicable EPA and Pennsylvania DEP regulations and standards.

Maintain the vegetation within the constructed slope limits, including, without limitation, waste and easement areas, and leave the Site in a presentable condition.

The ESS CONTRACTOR shall also restore all disturbed areas to their original condition. This includes, without limitation, sidewalks, pavement, curbs, grass, and vegetation.

The Project will not be considered complete until the above Work has been completed.

ARTICLE 23. ENVIRONMENTAL PROTECTION

The ESS CONTRACTOR shall thoroughly acquaint itself with and comply with the terms of all applicable Federal, Commonwealth of Pennsylvania and State of New Jersey statutes, law, codes, rules and regulations dealing with environmental protection or the prevention of environmental pollution that affect the Project. All costs of such compliance shall be considered incidental to the Work and no separate or additional payment will be made for such compliance. In the event that any Federal, Commonwealth of Pennsylvania or State of New Jersey statutes, laws, codes, rules or regulations are amended, or if new statutes, laws, codes, rules or regulations become effective, after date of receipt of Proposals, upon receipt of documentation which causes the ESS CONTRACTOR to perform additional Work, the COMMISSION may issue a Change Order setting forth the additional Work that must be undertaken and such additional Work shall be undertaken at no additional cost to the COMMISSION. It is also the responsibility of the ESS CONTRACTOR to determine the applicability of local ordinances, if any, which affect their portion of the Work. The ESS CONTRACTOR shall check for any County, City, Borough or Township rules or regulations applicable to the Project and, in addition, for any applicable rules or regulations of other organizations having jurisdiction over the Project, including, without limitation, chambers of commerce, planning commissions, industries or utility companies who have jurisdiction over lands which the ESS CONTRACTOR will use for the Project. Any costs of compliance with local controls shall be included in the ESS CONTRACTOR's Contract Price, even though documents of such local controlling agencies are not listed herein.

ARTICLE 24. WORKER HEALTH AND SAFETY

The COMMISSION expects and requires full ESS CONTRACTOR compliance with all applicable safety regulations and standards. The ESS CONTRACTOR is responsible to develop a Health and Safety Plan for this Project and for maintaining, monitoring, and enforcing full compliance.

The ESS CONTRACTOR must comply with all Department of Labor and OSHA Rules and Regulations, 29 CFR-PART 1910 (General Industries) or 29 CFR-PART 1926 (Construction), and all applicable sections of the National Fire Protection Association (NFPA).

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The COMMISSION will provide necessary information as requested by the ESS CONTRACTOR to complete the Health and Safety Plan.

Health and Safety Plan must be prepared by a Certified Safety Professional (CSP) or a Certified Industrial Hygienist (CIH).

The ESS CONTRACTOR shall submit a written ESS CONTRACTOR Health and Safety Plan to the COMMISSION'S ENGINEER for review within fifteen (15) days after receipt of the Notice of Award. For each phase of Work the ESS CONTRACTOR shall prepare a Job Hazard Analysis. The requirements for the Job Hazard Analysis are defined in the OSHA VPP program. Updated submissions are required whenever a Job Hazard Analysis is noted or changed. The Health and Safety Plan shall identify each major phase of Work. A phase is identified as an operation involving a type of Work performance or where a Subcontractor is to perform Work.

The Job Hazard Analysis must list the sequence of job steps; the potential hazard(s) associated with those steps; and the procedures, safeguards, and/or training necessary to eliminate the hazards or reduce the risk to an acceptable level.

The ESS CONTRACTOR's Health and Safety Plan shall include the following, but shall not be limited to:

1. Emergency Information (Phone numbers, maps, directions)
2. Lockout – Tagout Program
3. Hazard Analysis
4. PPE Matrix
5. Right to Know Program (MSDS)

The ESS CONTRACTOR is at all times responsible for job-site health and safety.

ARTICLE 25. GUIDELINES ON CONFLICT OF INTEREST AND RECUSAL

The following constitutes the Delaware River Joint Toll Bridge Commission's (the "COMMISSION") Conflict of Interest and Recusal Guidelines (the "Guidelines"), as adopted by the COMMISSION on November 29, 2004, and as may be amended from time to time by the COMMISSION as needs arise.

AVAILABILITY OF GUIDELINES

- A. These Guidelines, and any amendments or supplements thereto, apply to all Commissioners, all employees and all consultants and professionals hired by the COMMISSION.
- B. These Guidelines, and any amendments or supplements thereto, shall be distributed to all Commissioners and all employees involved in the procurement of professional services and to the consultants and professionals hired by the COMMISSION.

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- C. These Guidelines, and any amendments or supplements thereto, shall be available at the request from any employee of the COMMISSION.
- D. These Guidelines, and any amendments or supplements thereto, shall be available to any member of the public upon receipt of a written request to the office of the Executive Director of the COMMISSION; and
- E. These Guidelines shall be provided to all prospective vendors as part of the materials comprising any Letters of Intent/Request for Proposals ("LOI/RFP") or Request for Qualifications/Request for Proposals ("RFQ/RFP") for professional services.

SCOPE OF GUIDELINES

These Guidelines memorialize the COMMISSION'S policies dealing with conflicts of interests, for the Commissioners, employees, consultants and any other professionals retained by the COMMISSION from time to time. It is the COMMISSION'S intent to ensure that the public confidence is maintained in the manner in which the COMMISSION'S deliberations are held and the way decisions are made. These guidelines also ensure that when a conflict of interest arises, appropriate steps are taken to ensure that the COMMISSION is advised of the conflict. These Guidelines also provide that if a conflict arises, the party having said conflict takes appropriate steps to recuse him or herself.

LEGAL BACKGROUND

Conflicts of interest are regulated by both State and Federal law. In addition, from time to time, various Governors from the Commonwealth of Pennsylvania and the State of New Jersey have issued Executive Orders dealing with same. Ethical conduct by various public officials in Pennsylvania is dealt with in the Public Official and Employees Ethics Law, 65 Pa.C.S. § 1101 et seq. ("Pennsylvania Ethics Law"). New Jersey's Ethical Conduct as it relates to various State boards is governed by NJSA 52:13D-23 ("New Jersey Ethics Law").

The Pennsylvania Ethics Law requires each board member with a conflict of interest to:

- 1. Abstain from voting;
- 2. Disclose the conflict of interest, both orally and in writing to the Board; and,
- 3. Abstain from any responsibility for the administration of the subject contract.

The New Jersey Ethics Law prohibits a Member or employee from having an interest, financial or otherwise, direct or indirect, or from engaging in any business or transaction or professional activity, which is in substantial conflict with the proper discharge of his or her duties in the public interest. In addition, the New Jersey Ethics Law prohibits a member or employee from using or attempting to use his or her official position to secure unwarranted privileges or advantages for himself, herself or others.

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Under Federal regulations, 49 C.F.R. §1836, (B)(3), provide that no Board Member of a board receiving federal grants will participate in the selection, award or administration of a contract supported by federal funds if a conflict of interest, real or apparent, is involved.

Because the COMMISSION is a Bi-State Authority, none of the above laws apply directly to the COMMISSION. Therefore, the COMMISSION is instituting its own guidelines, taking due account of the conflict of interest laws of the respective states, as well as Federal regulations.

In order to identify and avoid any potential conflicts of interest, the following policy is hereby adopted:

DEFINITION OF CONFLICT OF INTEREST

1. A conflict of interest shall be defined as the use of an official's office to receive confidential information, which may result in the private pecuniary benefit of:
 - a. the Official;
 - b. the Official's immediate family (*i.e.* the official's parent, sibling, spouse, child, etc); or
 - c. a business with which the Official or the Official's immediate family is associated.
2. An Official shall be defined as any member of the COMMISSION, or any employee, consultant or professional retained by the COMMISSION.
3. Associated business - An official is considered associated with a business, if he or she is a director, officer owner, employee or otherwise has a financial interest in the business.
4. Private pecuniary benefit will be defined as:
 - a. Engaging directly or indirectly in any business transaction or private arrangement for profit that accrues from or is based upon his or her official position, authority or employment; or,
 - b. Participating in negotiations of, or decisions to, award contracts, settlement of any claims or charges in any contracts, making of loans, the granting of subsidies, the setting of rates, or the issuance of permits, certificates, guarantees or other things of value, to with or for, any entity in which a Commissioner, or employee, consultant or professional hired by the COMMISSION has any third-party financial or personal interest.

RECUSAL – COMMISSIONERS

If a member of the COMMISSION has a conflict of interest, or will accrue a private pecuniary benefit, the following shall apply:

- A. The member shall abstain from participating in any discussion of a contract in which such member has a conflict of interest.

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- B. The member must, prior to any vote being taken or any deliberations being held by the COMMISSION, quickly announce his or her recusal in the public record, by way of a written memorandum to be filed with the person keeping the minutes of the meeting. Recusal shall be both oral and in writing.
- C. Once the member has recused himself/herself, the member shall not participate in any discussion on said issue or contract, nor shall the member participate in any deliberations.
- D. In addition, the member will be required to abstain from voting. The only exception to this requirement is if the member's abstention makes it impossible to obtain the legally required votes because of quorum requirements. In that case, Legal Counsel must certify in the minutes that there was both the need to make a decision and that time constraints required it to be made at said meeting.

EMPLOYEES, CONSULTANTS AND PROFESSIONALS

With respect to employees, consultants and professionals hired by the COMMISSION from time to time, the following shall apply:

- A. No employee, consultant, or professional may use his or her employment by the COMMISSION to promote his or her private benefit ("benefit") except for remuneration paid by the COMMISSION for the services or employment rendered. Such benefit shall be considered a conflict of interest and an adverse pecuniary interest.
- B. In the event that an employee, consultant, or professional finds him or herself in a conflict of interest, he or she shall immediately notify the Executive Director of said conflict and prepare a written memorandum to be in the appropriate COMMISSION'S file. To the extent, the employee, consultant or professional participates in deliberations, negotiations, recommendations of any contracts, he or she shall immediately cease involvement in same and the COMMISSION shall utilize other employees and/or retain other consultants or professionals for any deliberations, negotiations or recommendations as the COMMISSION deems appropriate.
- C. This provision shall specifically apply to, and correlate with the COMMISSION'S Professional Services Procurement Guidelines adopted by the COMMISSION on November 29, 2004.

RECOMMENDATION

- 1. Any member will consult with the COMMISSION'S legal counsel as soon as he or she becomes aware of an actual or apparent conflict of interest, or if he or she has any questions as to whether a relationship or action by the member may constitute a potential conflict of interest.

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2. Each employee, consultant, or professional shall immediately notify the Executive Director of the COMMISSION as soon as he or she becomes aware of an actual or apparent conflict of interest or if he or she has any questions as to whether a relationship constitutes a conflict of interest.
3. The Executive Director shall consult with legal counsel of the COMMISSION when he or she is notified by an employee, consultant or professional of the possibility of a conflict of interest. After said consultation, the Executive Director shall notify the employee, consultant or professional whether or not he or she believes a conflict of interest has arisen.
4. If the Executive Director believes that he/she has a conflict of interest, he/she shall immediately inform the COMMISSION'S legal counsel and the Chair and Vice Chair of the COMMISSION. The Chair and Vice Chair after consultation with the COMMISSION'S legal counsel, shall determine whether or not a conflict of interest has arisen.
5. If it is determined that a conflict of interest for a member is present, he or she shall immediately file a written memorandum with the Chair and the person responsible for taking the minutes of the COMMISSION disclosing the nature of any conflict of interest as soon as the member becomes aware that an actual or apparent conflict of interest existed. The member shall refer to the written memorandum publicly, announcing the conflict of interest prior to any discussions on the issues, deliberations on same, and a vote being taken. The memorandum shall be made a part of the minutes of any meeting in which a vote is taken on the matter.
6. As to employees, consultants or professionals, a written memorandum, shall be issued to the Executive Director disclosing the nature of any conflict of interest as soon as the employee, consultant or professional becomes aware that an actual or apparent conflict of interest exists. Said memorandum shall be placed in the employee's personnel files. As to the consultant or professional, this memorandum shall be made a part of the minutes of any meeting in which there is any discussion, deliberation, or vote taken on the matter in conflict.
7. As to the Executive Director, if it is determined that he/she has a conflict of interest, he/she shall immediately file a written memorandum with the Chair and the person responsible for taking the minutes of the COMMISSION, disclosing the nature of any conflict of interest as soon as the Executive Director becomes aware that an actual or apparent conflict of interest exists. The Executive Director shall not participate in any discussion of the issues in which he/she has a conflict of interest. The memorandum shall be made a part of the minutes of any meeting that any discussion on the issues take place and shall be placed in his/her personnel file.

ARTICLE 26. RESPONSIBLE CONTRACTOR

In order to protect the substantial investment the COMMISSION has made, and continues to make, in the maintenance, improvement and expansion of its infrastructure, it is the goal of the

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COMMISSION to ensure that all contracts to perform work for the COMMISSION are awarded to reputable companies, which have the qualifications, resources and personnel required to successfully perform the work within the scope of a given contract. Successful performance of a contract includes, not only timely completion of the subject work at the high standards of quality expected by the COMMISSION, but also a demonstrated commitment by a Contractor to education and training in the construction trades, and a track record of responsible conduct in the implementation of public works projects.

In order to determine reasonably whether a Contractor has met these criteria, and in order for a Contractor to understand, and have the ability to meet the COMMISSION's expectations, the COMMISSION has authorized and is implementing the requirement for a Contractor Responsibility Certification (the "Certification") in a form designated by the COMMISSION to be executed by each PROPOSER proposing to perform a project. The Certification shall be executed on behalf of the PROPOSER by an individual that is knowledgeable of the matters contained therein and capable of binding the PROPOSER legally. Within 10 days of receipt of a Contract Notice of Award, the PROPOSER shall also provide the Certification(s) from all subcontractors where the value of the subcontract is \$250,000 or more.

The Certification sets forth certain pre-established, and clearly defined minimum standards relating to contractor responsibility, including technical qualifications, competency, experience, resources, safety, past performance, compliance with law and business integrity.

The Certification, along with this explanatory statement, will be issued as a supplementary general condition to the specifications attendant. When so incorporated into the specifications, the provisions hereof and the Certification become a mandatory requirement. Failure to provide an executed Certification may result in disqualification of the Proposal. Any willful and material misrepresentation or omission concerning the information requested herein may result in the COMMISSION exercising any and all available remedies including, but not limited to, debarment from future projects for a designated period of time, and termination of the ESS CONTRACTOR from performance of the project if discovered after the award of the contract and commencement of performance. A "willful" misrepresentation or omission shall mean one that is made intentionally or with reckless disregard for the truth.

For purposes of the performance and payment bonds provided by the ESS CONTRACTOR, any such termination will be deemed the result of a default by the ESS CONTRACTOR of a material provision of the contract between the COMMISSION and the ESS CONTRACTOR.

The requirement of a Certification in no way limits the COMMISSION's ability to consider other relevant factors in determining contractor responsibility. The COMMISSION reserves the right to explore, and include, additional measures for determining a contractor's responsibility, or to waive any provision of the Certification if the COMMISSION deems there to be a compelling reason to do so. The COMMISSION also reserves the right to waive any provision of the Certification in particular instances to promote diversity among the businesses proposing to propose on COMMISSION contracts. As always, the COMMISSION also has the right to reject all Proposals on a particular project if the COMMISSION deems it to be in its best interest to do so.

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The Certification requirements shall only apply to contracts concerning which the anticipated budget exceeds one million dollars. The Certification requirements do not apply to contracts exclusively for professional services. The Certification requirements also do not apply to contracts for the purchase of goods or materials regardless of the dollar amount of the contract. Subcontractors, who are solely materialmen and are not providing craft or trade labor on the project, are not required to submit a certification regardless of the dollar value of the subcontract

The PROPOSER shall receive notice from the COMMISSION if, for any reason, the COMMISSION deems the PROPOSER's certification to be deficient, or if information available to the COMMISSION leads the COMMISSION to conclude that a material fact certified by the PROPOSER is incomplete or incorrect. Otherwise, the PROPOSER may assume the Certification is accepted. In the event that a Certification is rejected or is apparently deficient, the COMMISSION may, but is not required to, allow the PROPOSER an opportunity to explain the deficiency in writing. No formal hearing will be provided.

Submission of a Certification is a requirement to submit a Proposal.

ARTICLE 27. HOMELAND SECURITY

The ESS CONTRACTOR and all Subcontractors shall be required, prior to issue of a Notice to Proceed, to submit to the COMMISSION a written and notarized certification stating that all employees of the ESS CONTRACTOR and Subcontractors who will work on this project have current I-9 Forms on file with the United States Department of Homeland Security. The certification shall be in a form acceptable to the COMMISSION. No employee without a current I-9 Form on file will be permitted to perform any work on this project.

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**TAB 8
PROPOSAL FORMS**

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1. Proposal Bond

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Proposal Bond

CONTRACT NO. DB-724A

KNOW ALL MEN BY THESE PRESENTS that we, _____,
(hereinafter called the "Principal"), and _____, a
company authorized to transact business in both the Commonwealth of Pennsylvania and the
State of New Jersey, and having its principal office at _____
_____ (hereinafter called the
"Surety"), as Surety, are held and firmly bound unto the DELAWARE RIVER JOINT TOLL
BRIDGE COMMISSION (hereinafter called the "Obligee"), as Obligee, in the sum of
_____ Dollars (\$ _____) lawful money of the
United States of America, for payment of which we bind ourselves, and each of our respective
heirs, legal representatives, successors and assigns, jointly and severally, by these presents, on
this _____ day of _____, 20____.

WHEREAS, said Principal is herewith submitting to the Obligee a Proposal to perform
work for the Obligee's ESS System in Pennsylvania and New Jersey, pursuant to plans,
Specifications and other related Contract Documents, which are incorporated into the Obligee's
Request for Proposals by reference; and it is a condition of the Obligee's receipt and
consideration of said Proposal that such shall be accompanied by Proposal Security to be held
by the Obligee on terms embodied herein.

THEREFORE, the condition of this obligation is that if said Principal shall furnish a
Performance Bond and a Payment Bond to the Obligee together with good and sufficient surety
or sureties, as may be required for the faithful performance and proper fulfillment of the
Contract, in the form specified by the Owner, and furnish required certificates of insurance upon
the Obligee's delivery to the Principal of seven (7) days notice of intention to accept the
Principal's Proposal and to make a formal Award of Contract, and shall enter into such Contract
and shall furnish a waiver of liens, in all respects as required by the Contract Documents, then
this obligation shall be void and of no effect, but otherwise it shall remain in full force. In the
event of the failure to enter into such Contract, furnish such bonds, furnish such a waiver of
liens, and furnish such certificates within the time specified, the Principal and Surety shall pay to
the Obligee the difference between the amount of the Principal's accepted Proposal and any
higher amount for which the Obligee may contract for the required work, as well as any
advertising, architectural, legal and other costs and expenses incurred by the Obligee by reason
of the default; provided, however, that the obligations of the Surety hereunder shall not exceed
the amount of this Proposal Security together with interest.

IN WITNESS WHEREOF, the Principal and Surety, intending to be legally bound, have
executed this Proposal Bond the day and year aforementioned.

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(Individual Principal)

Witness:

_____(SEAL)

(Signature of Individual)

Trading and Doing Business as:

(Partnership Principal)

Witness:

(Name of Partnership)

By: _____(SEAL)

By: _____(SEAL)

(Corporation Principal)

Attest:

(Asst.) Secretary

(Names of Corporation)

By:

(Vice) President

(CORPORATE SEAL)

(Joint Venture)

(Name of Joint Venture Companies)

Attest:

*By:

Authorized Representative

Attest:

*By:

Authorized Representative

*Authorized representatives for both joint venture companies are required to execute this Proposal Bond on behalf of the joint venture.

OR (if applicable)

Attest:

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By: _____

Authorized Representative

*Attach appropriate proof, dated as of the same date as the bond, evidencing authority to execute on behalf of the corporation.

(Corporate Surety)

(Name of Surety)

Witness or Attest:

**By: _____
Title

(CORPORATE SEAL)

**Attach an appropriate Power of Attorney, dated as of the same date as this Proposal Bond, evidencing the authority of the Attorney-in-Fact to act on behalf of the Surety.

IN WITNESS WHEREOF, the Principal and Surety, intending to be legally bound, have executed this Proposal Bond the day and year aforementioned.

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____ certify that I am
the _____ of the Corporation named as PRINCIPAL, in the
within Proposal Bond; that _____ who
signed the said Proposal Bond on behalf of the Principal was then
_____ of said Corporation; that I know the signee's signature, and
the signature thereto is genuine; and that said Proposal Bond is duly signed, sealed and
attested for on behalf of said Corporation by authority of its governing body.

(Secretary) (SEAL)

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2. Confidentiality Statement

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Confidentiality Statement

CONTRACT NO. DB-724A

Representatives of the Delaware River Joint Toll Bridge Commission, a bi-state agency existing in both the Commonwealth of Pennsylvania and the State of New Jersey (the "COMMISSION") and of _____, a _____, and/or its affiliates or subsidiaries (collectively referred to herein as "Recipient") have agreed to preliminarily discuss the potential for Recipient to provide services to COMMISSION in connection with COMMISSION's Electronic Surveillance/Detection System Maintenance Contract (the "Project"). Recipient agrees that during these discussions there will be a need to receive oral and written information that is COMMISSION's proprietary and confidential information. COMMISSION is willing to disclose such information to Recipient under the terms and conditions set forth below.

1. (a) All information disclosed or furnished by COMMISSION or by its officers, directors, employees, consultants, agents or representatives, whether orally or in writing or otherwise and whether received before or after the date of this agreement, in connection with the Project including, without limitation, the fact that discussions or negotiations are taking place between COMMISSION and Recipient or the status thereof shall be deemed to be proprietary and confidential information ("Proprietary Information") of COMMISSION.

(b) Except as specifically provided herein, Recipient agrees that for the entire term of this agreement it shall not disclose any Proprietary Information to any third party nor use any Proprietary Information for any purpose other than to assist COMMISSION with the Project. The Recipient shall protect all Proprietary Information with the highest degree of care used to protect commercial proprietary information. As used herein, the term "third party" shall be broadly interpreted to include, without limitation, any corporation, company, partnership, entity or individual.

(c) Recipient may only disclose such Proprietary Information to its directors, officers, employees and third party entities assisting with the submission of a proposal for the Project (the "Teaming Entities") who need to know such Proprietary Information for the purpose of providing the services to COMMISSION. Recipient shall inform its directors, officers and employees of the confidential nature of the Proprietary Information and such directors, officers and employees shall agree to be bound by the terms of this agreement. Recipient shall also inform its Teaming Entities of the confidential nature of the Proprietary Information and such Teaming Entities shall agree to be bound by and execute this agreement. Recipient hereby agrees to be responsible for any breach of this agreement by its directors, officers, employees and Teaming Entities.

(d) Recipient agrees that all communications with COMMISSION regarding the

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Project and all requests for information related thereto will be submitted only to the persons specifically designated by COMMISSION.

2. Notwithstanding the provisions of Paragraph 1 above, the term Proprietary Information does not include information that (a) is or becomes within the public domain through no act of the Recipient in breach of this agreement; (b) was in the possession of the Recipient prior to its disclosure or transfer hereunder, and the Recipient can so prove; (c) is independently developed by the Recipient, and the Recipient can so prove; or (d) is received from another source without any restriction on use or disclosure through no act of the Recipient in breach of this agreement.

3. Notwithstanding the foregoing, as soon as possible upon the written request of COMMISSION or upon the termination of discussions between COMMISSION and Recipient, Recipient shall promptly return to COMMISSION all Proprietary Information which has been provided to Recipient and will destroy all written documentation prepared by Recipient for internal purposes based in whole or in part on any Proprietary Information. Such destruction will be confirmed to COMMISSION in writing by an officer of Recipient.

4. Nothing in this agreement shall be construed as (i) precluding COMMISSION at any time from independently developing ideas relate to or unrelated to the Project, or (ii) precluding COMMISSION from negotiating with or entering into any agreement with others relating to the Project.

5. In the event Recipient is legally requested or required (by oral question, interrogatories, requests for information, or documents, subpoenas, civil investigative demand or similar process) to disclose any of COMMISSION's Proprietary Information, Recipient shall immediately notify COMMISSION of such request or requirement so that COMMISSION may seek an appropriate protective order or waive the provisions of this agreement. In the event that such protection or other remedy is not obtained or that COMMISSION waives compliance, the Recipient agrees to furnish only that portion of the Propriety Information which it is advised by counsel is legally required.

6. Recipient acknowledges and agrees that any unpermitted disclosure or use of Proprietary Information will cause irreparable harm to COMMISSION. Recipient therefore agrees to indemnify COMMISSION for, from and against any and all loss or expense suffered or incurred by COMMISSION including, without limitation, legal fees (e.g., fees of attorneys, paralegals and other legal professionals) and costs as a result of any unpermitted disclosure of Proprietary Information or other breach of this agreement by Recipient or its directors, officers or employees. Recipient further agrees that damages alone will not be a sufficient remedy for breach of this agreement and that COMMISSION shall be entitled to immediate injunctive or other equitable relief including, without limitation, entry of an immediate temporary restraining

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order without notice to Recipient and without the necessity of posting any bond or other security in connection with the issuance of such injunctive relief to enforce the provisions of this agreement.

7. This agreement contains the sole and entire agreement between COMMISSION and Recipient relating to the subject hereof, and any representation, promise, or condition not contained herein, or any amendment herein shall not be binding on either party unless set forth in a subsequent written agreement signed by an authorized representative of the party to be bound thereby.

Signature

(Date)

(Name and Title)

Subscribed and sworn to
before me this ____
day of _____, 20__

My Commission expires _____, 20__.

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3. Certification of Compliance with Bonding Requirements

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Certification of Compliance with Bonding Requirements

CONTRACT NO. DB-724A

(Name of Proposer)

I, _____, the undersigned, certify that I am an Officer of the Proposer named above and further certify that I have reviewed and understand all bonding requirements in the Contract Documents.

I further certify that if the aforementioned Proposer is selected as the successful Proposer for the Electronic Surveillance/Detection System Maintenance Contract that bonds of the specified types and amounts designated in the Contract Documents will be supplied to the Delaware River Joint Toll Bridge Commission.

Attached herewith is a letter from a surety licensed in the Commonwealth of Pennsylvania and the State of New Jersey stating that the Proposer is capable of obtaining bonds of values consistent with the Proposer's Price Proposal and committing to providing the same. The attached letter also states that the Proposer's surety satisfies all of the other bonding requirements set forth in the Contract Documents.

Signature

(Date)

(Name and Title)

Subscribed and sworn to
before me this ____
day of _____, 20__

My Commission expires _____, 20__.

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4. Certification of Compliance with Affirmative Action Requirements

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Certification of Compliance with Affirmative Action Requirements

CONTRACT NO. DB-724A

(Name of Proposer)

the undersigned, in person or by its duly authorized representative, hereby certifies that it has and will comply with the requirements of the Affirmative Action Program described in the Supplementary Conditions and hereby designates

as liaison officer authorized to administer this program.

(Date)

(Name and Title)

Subscribed and sworn to
before me this _____
day of _____, 20 ____

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5. Insurance and Indemnification Certification Form

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INSURANCE AND INDEMNIFICATION CERTIFICATION FORM

CONTRACT NO. DB-724A

(Name of Proposer)

the undersigned, an officer of the named Proposer, in person or by its duly authorized representative, hereby certifies that they have read and understood the Commission's Insurance and Indemnification Requirements stipulated in the Contract Documents, and will comply and have all other contractors/consultants that comprise the team comply with the Insurance Requirements, by providing the Commission as an attachment to this certification a sample "Certificate of Insurance" indicating that it can meet the minimum requirements stipulated herein; and further, will take no exception to the Indemnification Clause if they are selected to perform work under Contract DB-724A.

(Date)

(Name and Title)

subscribed and sworn to
before me this _____
day of _____, 20 ____

My Commission expires _____, 20 ____

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6. Non-Collusion Affidavit

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Non-Collusion Affidavit

CONTRACT NO. DB-724A

Commonwealth/State of _____ :
:S.S.
County of _____ :

I state that I am _____ of _____
(Title) (Name of My Company),
the Proposer that submitted that attached Proposal and that I am authorized to make
this affidavit on behalf of my company, its owners, directors, officers, employees and
agents. I am the person responsible in my company for the price(s) and the amount of
this Proposal.

I state that:

(1) The price(s) and amount of this Proposal have been arrived at independently and without consultation, communication or agreement by the Proposer, any of its sureties, agents, representatives, owners, employees, or parties in interest with any other contractors, proposers, potential proposers or any other sureties, agents, representatives, owners, employees or parties in interest of any other contractors, proposers or potential proposers. The price(s) quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its sureties, agents, representatives, owners, employees, or parties in interest, including this affidavit.

(2) Neither the price(s) nor the amount of this Proposal, and neither the approximate price(s) nor approximate amount of this Proposal, have been disclosed to any other company or person who is a proposer, potential proposer or a surety, agent, representative, owner, employee or party in interest of any other contractor, proposer or potential proposer, and they will not be disclosed before opening bid.

(3) No attempt has been made or will be made to induce any company or person to refrain from submitting a Proposal on this contract, or to submit a Proposal higher than this Proposal, or to submit any collusive or intentionally high or non-competitive Proposal or other form of complementary Proposal.

(4) The Proposal of my company is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any proposer, potential proposer or a surety, agent, representative, owner, employee or party in interest of any other contractor, proposer or potential proposer to submit a complementary or other non-competitive Proposal.

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(5) _____, its affiliates, subsidiaries, officers, directors,
(Name of My Company)
and employees are not currently under investigation by any governmental agency and
have not in the last four (4) years been convicted or found liable for any act prohibited by
State of Federal law in any jurisdiction, involving conspiracy or collusion with respect to
bidding or submitting proposals on any public contract, except as follows:

I state that _____ understands and
(Name of My Company)
acknowledges that the above representations are material and important, and will
be relied on by the Delaware River Joint Toll Bridge Commission in awarding the
contract(s) for
_____ which this Proposal is
submitted.

I understand and my company understands that any misstatement in this
affidavit is and shall be treated as fraudulent concealment from the Delaware River Joint
Toll Bridge Commission of true facts relating to the submission of Proposals for this
contract.

(Name and Position in
Company)

SWORN TO AND SUBSCRIBED BEFORE ME THIS ____ DAY OF ____, 2013

Notary Public

My Commission Expires:

END OF DOCUMENT

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7. Certificate of Eligibility

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Certificate of Eligibility

CONTRACT NO. DB-724A

Evidence must be submitted herein that the ESS CONTRACTOR:

Address _____

City of _____ and State of _____

is duly authorized to do business in the Commonwealth of Pennsylvania and/or the State of New Jersey.

Documents showing proof of eligibility are attached herewith.

Pennsylvania License for Construction: _____

Pennsylvania Registration: _____

New Jersey License for Construction: _____

New Jersey Registration: _____

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8. References Form Parts 1 & 2

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PART 1: COMPANY REFERENCES / EXPERIENCE

PROPOSER shall use this attachment (or a facsimile) to clearly show how PROPOSER meets the requirements set forth in the Proposal Requirements for company experience. Each reference provided may be contacted to determine the PROPOSER's ability to meet the Proposal requirements. Please copy this form as needed to comply with the requirements outlined in the RFP

PROPOSER's Name: _____

Reference Company Name:		
Address:		
City:	State:	Zip Code:
Phone Number:	Fax Number:	
Project Manager:		
E-mail:		
PROPOSER's role on project and years of participation (mm/dd/yy to mm/dd/yy)		
Project location, scope, cost, start / end dates:		
Operational functionality, number of servers / workstations, etc.:		
Relevant equipment and systems used (such as server hardware, workstation hardware, etc.)		
Comparison to COMMISSION requirements:		
Installed system performance:		
Key Personnel involved and role who are also proposed on COMMISSION project:		

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Reference Response (For THE COMMISSION Internal Use):

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PART 2: KEY STAFF REFERENCES

Proposer shall use this form to clearly show how Proposer meets the requirements set forth in the RFP for each key project team member. Each reference provided may be contacted to determine the respondent's ability to meet the Proposal requirements. Copy this form as needed to comply with the requirements of the RFP and the number of references cited.

Key Project Team Member _____

Proposed Position _____

Reference Company Name:		
Address:		
City:	State:	Zip Code:
Phone Number:	Fax Number:	
Project Manager:		
E-mail:		
Number of total years experience of Key Team Member in similar role to one proposed for COMMISSION Project:		
Reference Project:		
Key Staff Team Member Role on Project, including dates of participation and job description:		
Project location, scope, cost, start / end dates, etc.:		
Operational functionality, number of lanes plazas, revenue collected, etc.:		
Relevant systems used (lane pricing, Open Road Tolling, etc.).		

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Reference Response (For COMMISSION Internal Use):

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9. Conflict of Interest and Recusal Certification Form

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Conflict of Interest and Recusal Certification Form

CONTRACT NO. DB-724A

(Name of ESS CONTRACTOR)

the undersigned, an officer of the named ESS CONTRACTOR , in person or by its duly authorized representative, hereby certifies that they have read and understood the Commission's Guidelines on Conflict of Interest and Recusal posted on the Commission's website www.drjtbc.org and will comply and have all other contractors/consultants that comprise the team comply with the requirements of these guidelines during the performance of work under Contract DB-724A.

(Date)

(Name and Title)

subscribed and sworn to
before me this _____
day of _____, 20 ____

My Commission expires _____, 20 ____

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10. Payment Bond Form

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PAYMENT BOND

CONTRACT NO. DB-724A

KNOW ALL MEN BY THESE PRESENTS that we, _____, as
Principal (the "Principal"), and _____, a corporation organized and existing
under laws of the _____ of _____, with a principal office at _____
_____, and authorized to do business in the Commonwealth of Pennsylvania and State of New
Jersey, as Surety (the "Surety"), are held and firmly bound unto the Delaware River Joint Toll Bridge
Commission as Oblige (the "Oblige"), as hereinafter set forth, in the full and just sum of
_____ Dollars (\$_____) lawful money of the United States of America, for
the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly
and severally, firmly by these presents.

WITNESSETH THAT:

WHEREAS, the Principal heretofore has submitted to the Oblige a certain Proposal, dated
_____, 20__ (the "Proposal"), to design, build and maintain the ESS System for the Oblige in
Pennsylvania and New Jersey, pursuant to plans, Specifications and other related contract documents, which
are incorporated into the Oblige's Request for Proposals by reference (the "Contract Documents"); and

WHEREAS, the Oblige, is a "Contracting Body" under provisions of Act No. 385 of the General
Assembly of the Commonwealth of Pennsylvania, approved by the Governor on December 20, 1967, known
as and cited as the "Public Works Contractors' Bond Law of 1967" (the "PA Act"); and

WHEREAS, the PA Act, in Section 3(a), requires that, before an award shall be made to the
Principal by the Oblige in accordance with the Proposal, the Principal shall furnish this Bond to the Oblige,
with this Bond to become binding upon the award of a contract to the Principal by the Oblige in accordance
with the Proposal; and

WHEREAS, the Oblige is a "State Agency" under the provisions of the New Jersey statutes governing
bonding for public construction contracts (N.J.S.A 2A:44-143, et. seq) (the "NJ Act"); and

WHEREAS, the NJ Act, in N.J.S.A 2A:44-143, requires that, before an award shall be made to the
Principal by the Oblige in accordance with the Proposal, the Principal shall furnish this Bond to the Oblige,

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with this Bond to become binding upon the award of a contract to the Principal by the Obligee in accordance with the Proposal; and

WHEREAS, it also is a condition of the Contract Documents that this Bond shall be furnished by the Principal to the Obligee; and

WHEREAS, under the Contract Documents, it is provided, *inter alia*, that if the Principal shall furnish this Bond to the Obligee, and if the Obligee shall make an award to the Principal in accordance with the Proposal, then the Principal and the Obligee shall enter into an agreement with respect to performance of such work (the "Agreement"), the form of which Agreement is set forth in the Contract Documents.

NOW, THEREFORE, the terms and conditions of this Bond are and shall be that if the Principal and any subcontractor of the Principal to whom any portion of the work under the Agreement shall be subcontracted, and if all assignees of the Principal and of any such subcontractor, promptly shall pay or shall cause to be paid, in full, all money which may be due any claimant or beneficiary supplying labor or materials in the prosecution and performance of the work in accordance with the Agreement and in accordance with the Contract Documents, including any amendment, extension or addition to the Agreement and/or to the Contract Documents, for material furnished, labor supplied or labor performed, then this Bond shall be void; otherwise, this Bond shall be and shall remain in force and effect.

This Bond, as provided by the PA Act and NJ Act, shall be solely for the protection of claimants and beneficiaries supplying labor or materials to the Principal or to any subcontractor of the Principal in the prosecution of the work covered by the Agreement, including any amendment, extension or addition to the Agreement and is conditioned for the prompt payment of all such materials furnished and labor supplied or performed in the prosecution of any portion of the work. The term "claimant", when used herein and as required by the PA Act, shall mean any individual, firm, partnership, association or corporation. The term "beneficiary", when used herein and as required by the NJ Act, shall mean any subcontractors or material suppliers in contract with the Principal, or subcontractors or material suppliers in contract with a subcontract to the Principal. The phrase "labor or materials" when used herein and as required by the PA Act, shall include public utility services and reasonable rentals of equipment, but only for periods when the equipment rented is actually used at the site of the work covered by the Agreement. As required by the PA Act, the provisions of this Bond shall be applicable whether or not the material furnished or labor performed enters into and becomes a component part of the public building, public work or public improvement contemplated by the Contract Documents and the Agreement.

The Principal and the Surety agree that any claimant or beneficiary, who has performed labor or furnished material in the prosecution of the work in accordance with the Agreement and in accordance with the Contract Documents, including any amendment, extension or addition to the Agreement and/or to the Contract Documents, and who has not been paid therefore, in full, may institute an action upon this Bond in Pennsylvania by complying with the PA Act or in New Jersey by complying with the NJ Act.

This Bond is executed and delivered under and subject to the PA Act and NJ Act, to which reference hereby is made.

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The Principal and the Surety agree that any alterations, changes and/or additions to the Contract Documents, and/or any alterations, changes and/or additions to the work to be performed under the Agreement in accordance with the Contract Documents, and/or any alterations, changes and/or additions to the Agreement, and/or any giving by the Oblige of any extensions of time for the performance of the Agreement in accordance with the Contract Documents, and/or any act of forbearance of either the Principal or the Oblige toward the other with respect to the Contract Documents and the Agreement, and/or the reduction of any percentage to be retained by the Oblige as permitted by the Contract Documents and by the Agreement, shall not release, in any manner whatsoever, the Principal and the Surety, or either of them, or their heirs, executors, administrators, successors and assigns, from liability and obligations under this Bond; and the Surety, for value received, does waive notice of any such alterations, changes, additions, extensions of time, acts of forbearance and/or reduction of retained percentage.

Provided, that it is expressly agreed that this Bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the Contract Documents not increasing the contract price more than twenty percent (20%), so as to bind the Principal and the Surety to the full and faithful performance of the Contract Documents as so amended. The term "Amendment", wherever used in this Bond and whether referring to this Bond, the Contract Documents, or the Agreement, shall include any alteration, addition, extension or modification of any character whatsoever.

Provided, further, that no final settlement between the Oblige and the Principal shall abridge the right of any claimant or beneficiary hereunder, whose claim may be unsatisfied.

If the Principal is a foreign corporation (incorporated under any laws other than those of the Commonwealth of Pennsylvania) then further terms and conditions of this Bond are and shall be that the Principal or the Surety shall not be discharged from liability on this Bond, nor this Bond surrendered until such Principal files with the Oblige a certificate from the Pennsylvania Department of Revenue evidencing the payment in full of all bonus taxes, penalties and interest, and a certificate from the Bureau of Employment and Unemployment Compensation of the Pennsylvania Department of Labor & Industry, evidencing the payment of all unemployment compensation, contributions, penalties and interest due the Commonwealth of Pennsylvania from said Principal or any foreign corporation, subcontractors thereunder or for which liability has accrued but the time for payment has not arrived, all in accordance with provisions of the Act of June 10, 1947, P.L. 493, of the Commonwealth of Pennsylvania.

In the event that the Oblige incurs legal fees (e.g., fees of attorneys, paralegals and other legal professionals) for actual or potential default or enforcement of its rights under the Agreement or Bond, the Surety agrees to pay for all reasonable legal fees and costs incurred by the Oblige.

[signature page follows]

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Proposal Forms**

IN WITNESS WHEREOF, the Principal and the Surety cause this Bond to be signed, sealed and delivered this ____ day of _____, 20__.

(Individual Principal)

(Signature of Individual) (SEAL)

WITNESS:

Trading and Doing Business as

(Partnership Principal)

WITNESS:

(Name of Partnership)

BY: _____ (SEAL)
Partner

BY: _____ (SEAL)
Partner

BY: _____ (SEAL)
Partner

(Corporate Principal)

ATTEST:

(Name of Corporation)

Secretary (Assistant Secretary)

BY: _____
President (Vice President)

(CORPORATE SEAL)

**Delaware River Joint Toll Bridge Commission
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(Joint Venture)

(Name of Joint Venture Companies)

Attest: _____

*By: _____
Authorized Representative

Attest: _____

*By: _____
Authorized Representative

*Authorized representatives for both joint venture companies are required to execute this Payment Bond on behalf of the joint venture.

or (if appropriate)

WITNESS:

(Name of Corporation)

*BY: _____
(Authorized Representative)

* Attach appropriate proof, with raised corporate seal, dated as of the same date as the Bond, evidencing authority to execute on behalf of the Corporation.

* * * * *

(Corporate Surety)

WITNESS:

(Name of Corporation)

**BY: _____
(Attorney-in-Fact)

** Attach an appropriate power of attorney, with raised corporate seal, dated as of the same date as the Bond, evidencing the authority of the Attorney-in-Fact to act on behalf of the Surety.

**Delaware River Joint Toll Bridge Commission
Request for Proposals
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Capital Project: 1801A
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11. Performance Bond Form

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Proposal Forms**

PERFORMANCE BOND

CONTRACT NO. DB-724A

KNOW ALL MEN BY THESE PRESENTS that we, _____, as Principal (the “Principal”), and _____, a corporation organized and existing under the laws of the _____ of _____, having its principal office at _____, and authorized to do business in the Commonwealth of Pennsylvania and State of New Jersey, as Surety (the “Surety”), are held and firmly bound unto the Delaware River Joint Toll Bridge Commission as Oblige (the “Obligee”), as hereinafter set forth in the full and just sum of _____ Dollars (\$_____), lawful money of the United States of America, for the payment of which sum we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WITNESSETH THAT:

WHEREAS, the Principal heretofore has submitted to the Oblige a certain Proposal, dated _____, 20__ (the “Proposal”), to design, build and maintain the ESS System for the Oblige in Pennsylvania and New Jersey pursuant to plans, Specifications and the other related contract documents, which are incorporated into the Oblige’s Request for Proposals by reference (the “Contract Documents”); and

WHEREAS, the Oblige is a “Contracting Body” under provisions of Act No. 385 of the General Assembly of the Commonwealth of Pennsylvania, approved by the Governor on December 20, 1967, known and cited as the “Public Works Contractors’ Bond Law of 1967” (the “PA Act”); and

WHEREAS, the PA Act, in Section 3(a), requires that, before an award shall be made to the Principal by the Oblige in accordance with the Proposal, the Principal shall furnish this Bond to the Oblige, with this Bond to become binding upon the award of a contract to the Principal by the Oblige in accordance with the Proposal; and

WHEREAS, the Oblige is a “State Agency” under the provisions of the New Jersey statutes governing bonding for public construction contracts (N.J.S.A 2A:44-143, et. seq.) (the “NJ Act”); and

Delaware River Joint Toll Bridge Commission
Request for Proposals
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WHEREAS, the NJ Act, in N.J.S.A 2A:44-143, requires that, before an award shall be made to the Principal by the Oblige in accordance with the Proposal, the Principal shall furnish this Bond to the Oblige, with this Bond to become binding upon the award of a contract to the Principal by the Oblige in accordance with the Proposal; and

WHEREAS, it also is a condition of the Contract Documents that this Bond shall be furnished by the Principal to the Oblige; and

WHEREAS, under the Contract Documents, it is provided, *inter alia*, that if the Principal shall furnish this Bond to the Oblige, and if the Oblige shall make an award to the Principal in accordance with the Proposal, then the Principal and the Oblige shall enter into an agreement with respect to performance of such work (the "Agreement"), the form of which Agreement is set forth in the Contract Documents.

NOW, THEREFORE, the terms and conditions of this Bond are and shall be that if: (a) the Principal well, truly and faithfully shall comply with and shall perform the Agreement in accordance with the Contract Documents, at the time and in the manner provided in the Agreement and in the Contract Documents, and if the Principal shall satisfy all claims and demands incurred in or related to the performance of the Agreement by the Principal or growing out of the performance of the Agreement by the Principal, and if the Principal shall indemnify completely and shall save harmless the Oblige and all of its officers, agents and employees from any and all costs and damages, including, but not limited to, liquidated damages which the Oblige and all of its officers, agents and employees may sustain or suffer by reason of the failure of the Principal to do so, and if the Principal shall reimburse completely and shall pay to the Oblige any and all costs and expenses which the Oblige and all of its officers, agents and employees may incur by reason of any such default or failure of the Principal, including, but not limited to, reasonable legal fees (e.g., fees of attorneys, paralegals and other legal professionals) and professional fees resulting from such default or failure of the Principal, consequential, incidental and delay damages resulting from such default or failure of the Principal, liquidated damages in accordance with the Contract Documents and actual damages caused by delayed performance or non-performance of the Contract if liquidated damages are not provided for in the Contract, and (b) if the Principal shall remedy, without cost to the Oblige, all defects which may develop during the period of one (1) year from the date of final completion by the Principal and acceptance of the Oblige of the work to be performed under the Agreement in accordance with the Contract Documents, which defects, in the sole judgment of the Oblige or its legal successors in interest, shall be caused by or shall result from defective or inferior materials or workmanship, then this Bond shall be void; otherwise, this Bond shall be and shall remain in force and effect and all claims, demands, costs, expenses and damages including, but not limited to, reasonable legal fees and professional fees resulting from the default or failure of Principal, consequential, incidental and delay damages resulting from such default or failure of the Principal, liquidated damages in accordance with the Contract Documents and actual damages caused by delayed performance or non-performance of the Contract if liquidated damages are not provided for in the Contract, shall be payable by Principal and Surety upon demand of Oblige; provided, however, that the obligations of the Surety hereunder shall not exceed the amount of this Performance Bond.

This Bond is executed and delivered under and subject to the PA Act and NJ Act, to which reference hereby is made.

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The Principal and the Surety agree that any alterations, changes and/or additions to the Contract Documents, and/or any alterations, changes and/or additions to the work to be performed under the Agreement in accordance with the Contract Documents, and/or any alterations, changes and/or additions to the Agreement, and/or any giving by the Obligee of any extensions of time for the performance of the Agreement in accordance with the Contract Documents, and/or any act of forbearance of either the Principal or the Obligee toward the other with respect to the Contract Documents and the Agreement, and/or the reduction of any percentage to be retained by the Obligee as permitted by the Contract Documents and by the Agreement, shall not release, in any manner whatsoever, the Principal and the Surety, or either of them, or their heirs, executors, administrators, successors and assigns, from liability and obligations under this Bond; and the Surety, for value received, does waive notice of any such alterations, changes, additions, extensions of time, acts of forbearance and/or reduction of retained percentage.

Provided, that it is expressly agreed that this Bond shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the Contract Documents not increasing the contract price more than twenty percent (20%), so as to bind the Principal and the Surety to the full and faithful performance of the Contract Documents as so amended. The term "Amendment", wherever used in this Bond and whether referring to this Bond, the Contract Documents, or the Agreement, shall include any alteration, addition, extension or modification of any character whatsoever.

Provided, further, that no final settlement between the Obligee and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

If the Principal is a foreign corporation (incorporated under any laws other than those of the Commonwealth of Pennsylvania) then further terms and conditions of this Bond are and shall be that the Principal and the Surety shall not be discharged from liability on this Bond, nor this Bond surrendered until such Principal files with the Obligee a certificate from the Pennsylvania Department of Revenue evidencing the payment in full of all bonus taxes, penalties and interest, and a certificate from the Bureau of Employment and Unemployment Compensation of the Pennsylvania Department of Labor and Industry, evidencing the payment of all unemployment compensation, contributions, penalties and interest due the Commonwealth of Pennsylvania from said Principal or any foreign corporation, subcontractor thereunder or for which liability has accrued but the time for payment has not arrived, all in accordance with provisions of the Act of June 10, 1947, P.L. 493, of the Commonwealth of Pennsylvania.

In the event that the Obligee incurs legal fees for actual or potential default or enforcement of its rights under the Agreement or Bond, the Surety agrees to pay for all reasonable legal fees and costs incurred by the Obligee.

[signature page follows]

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
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IN WITNESS WHEREOF, the Principal and the Surety cause this Bond to be signed, sealed and delivered this ____ day of _____, 20__.

(Individual Principal)

_____(SEAL)

(Signature of Individual)

WITNESS:

Trading and Doing Business as

* * * * *

(Partnership Principal)

WITNESS:

(Name of Partnership)

By: _____(SEAL)

Partner

By: _____(SEAL)

Partner

By: _____(SEAL)

Partner

* * * * *

(Corporate Principal)

ATTEST:

(Name of Corporation)

Secretary (Assistant Secretary)

By: _____(SEAL)

President (Vice President)

(CORPORATE SEAL)

(Joint Venture)

(Name of Joint Venture Companies)

Attest: _____

*By: _____

Authorized Representative

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Request for Proposals
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Attest: _____

*By: _____
Authorized Representative

*Authorized representatives for both joint venture companies are required to execute this Performance Bond on behalf of the joint venture.

or (if appropriate)

WITNESS:

(Name of Corporation)

*By: _____
(Authorized Representative)

*Attach appropriate proof, with raised corporate seal, dated as of the same date as the Bond, evidencing authority to execute on behalf of the corporation.

* * * * *

(Corporate Surety)

WITNESS:

(Name of Corporation)

**By: _____
(Attorney-in-Fact)

**Attach an appropriate power of attorney, with raised corporate seal, dated as of the same date as the Bond, evidencing the authority of the Attorney-in-Fact to act on behalf of the Surety.

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12. Waiver of Liens Form

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Waiver Of Liens/Mechanics' Lien Waiver

CONTRACT NO. DB-724A

Pike, Monroe, Northampton, and Bucks Counties in Pennsylvania

_____, 2013

OWNER: Delaware River Joint Toll Bridge Commission ("Owner")

CONTRACTOR: _____ ("ESS CONTRACTOR")

CONTRACT: Contract between Owner and ESS CONTRACTOR dated _____,
2013.

PROJECT: All labor and material necessary for the Delaware River Joint Toll Bridge
Commission – ESS System ("Project") in Pennsylvania and New Jersey.

1. ESS CONTRACTOR hereby stipulates and agrees for payment of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, that ESS CONTRACTOR, any Subcontractor, any Sub-subcontractor, any materialman, or any other person furnishing labor or materials to any of them, shall not file a lien, commonly called a mechanics' lien, or claim for any and all amounts that are, from time-to-time, owed by the Owner against the Project or improvements thereon, and any leasehold interests therein, or any part thereof, for any labor or materials furnished. All Subcontractors, Sub-subcontractors, materialmen, or any other person furnishing labor or materials to any of them or to the ESS CONTRACTOR for the Project or improvements thereon, any leasehold interests therein, or any part thereof, shall look to and hold the ESS CONTRACTOR personally liable for all Subcontracts, labor or materials furnished to the Project or improvements thereon, so that there shall not be any legal or lawful claim of any kind whatsoever against the Owner for and about the erection, construction and completion of the Project or improvements thereon, and any leasehold interests therein, or any part thereof, or with respect to labor and materials furnished under any supplemental contract or arrangement for extra work in connection with alterations and related improvements on the Project and any leasehold interests therein, or any part thereof.

2. This Waiver of Liens/Mechanics' Lien Waiver, waiving the right of lien, shall be an independent covenant and shall also operate and be effective with respect to work done and materials furnished under any supplemental contract or arrangement for extra work in connection with alterations and related improvements at the Project and any leasehold interests therein.

3. In the event ESS CONTRACTOR, any Subcontractor, any Sub-subcontractor, any materialman, or any other person furnishing labor and materials to any of them, files any mechanics' lien or claim, each hereby irrevocably waives any right to jury trial in any action to strike or discharge the lien.

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4. Without limitation of the foregoing, this Waiver of Liens/Mechanics' Lien Waiver is made and intended to be filed with the Office of the Prothonotary of the county or counties in which the Project is located in accordance with the requirements of Section 402 of the Mechanics' Lien Law of 1963 of the Commonwealth of Pennsylvania (49 P.S. § 1402), as amended and supplemented.

5. Each of the terms, provisions, covenants, conditions of this Waiver of Liens/Mechanics' Lien Waiver, as the case may be, shall be binding upon and inure to the benefit of Owner, ESS CONTRACTOR, each Subcontractor of ESS CONTRACTOR, each Sub-subcontractor of each Subcontractor, and each party acting for, through, or under ESS CONTRACTOR, Subcontractor, or Sub-subcontractor, and their respective heirs, executors, administrators, successors and assigns.

6. In order to give the Owner full power and authority to protect itself and the Project against any and all claims filed by the ESS CONTRACTOR, any Subcontractor, any Sub-subcontractor, any materialmen, any other person furnishing labor or materials to any of them, or anyone acting under or through them in violation of the foregoing covenant, the said ESS CONTRACTOR, for itself and all persons or entities acting through it, hereby irrevocably authorizes and empowers any Attorney of any Court of Common Pleas of the Commonwealth of Pennsylvania, to appear for it or any of them, in any of the said Courts of Common Pleas as Attorney for it and in its name, mark any and all claims satisfied of record at the cost and expense of the ESS CONTRACTOR, including, without limitation, all legal fees (e.g., fees of attorneys, paralegals, and any other legal professionals) related thereto, any and all claims or claim, lien or liens, filed by or for the ESS CONTRACTOR, any Subcontractor, any Sub-subcontractor, any material men, any other person furnishing labor or materials to any of them, or anyone acting under or through them in violation of the foregoing covenant, or in its or their name against the Project or any part thereof. For such act or acts this shall be good and sufficient warrant and authority and a reference to the Court, Term, and Number in which and where this Waiver of Liens/Mechanics' Lien Waiver shall have been filed shall be a sufficient exhibit of the authority herein contained to warrant such action, and the ESS CONTRACTOR does hereby remise, release and quit-claim all rights and all manner of errors, defects and imperfections whatsoever in entering such satisfaction or in anyway touching or concerning the same.

7. In the event of a dispute between the ESS CONTRACTOR and the Owner, to the extent that the Owner incurs any legal fees, professional fees, or other costs or expenses in defending, removing, marking satisfied any mechanics' liens or any other expenses incurred by Owner in connection with mechanics' lien claims and/or judgments related to the Project, the ESS CONTRACTOR will be solely responsible for those amounts incurred by the Owner, which will be deducted to the extent available, from any amounts due the ESS CONTRACTOR under the Contract. If the amount due the ESS CONTRACTOR is not sufficient to cover such cost, the ESS CONTRACTOR shall pay the difference to the Owner within ten (10) days of receipt of the Owner's invoice for such legal fees, professional fees or other costs and expenses.

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13. General Release and Indemnification Agreement Form

**Delaware River Joint Toll Bridge Commission
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General Release and Indemnification Agreement

Contract No. DB-724A

NOW, THEREFORE, in consideration of the Delaware River Joint Toll Bridge Commission (the "Commission") providing the Releasor with access to the Commission's property, facilities and bridges in Pennsylvania and New Jersey (the "Property") and other good and valuable consideration, the Releasor, intending to be legally bound hereby, agrees as follows:

1. General Release. The Releasor hereby releases, remises, acquits and forever discharges the Commission, the Commonwealth of Pennsylvania and the State of New Jersey and their respective officers, directors, commissioners, employees, successors, assigns, affiliates, agents and insurers (collectively, the "Released Parties") of and from any and all causes of action, liabilities, losses, claims, counterclaims, crossclaims, suits, injuries, demands, damages, costs, covenants, contracts, agreements, judgments, expenses and compensation, whatsoever, in law or in equity, and any and all known and unknown damages of whatsoever nature, whether past, present or future (collectively, the "Claims"), arising from the Releasor's access to the Commission's Property. To the fullest extent permitted by law, the Releasor agrees to indemnify, defend and hold the Released Parties harmless from and against, any and all Claims, arising out of the Releasor's access to the Commission's Property. Furthermore, the Releasor hereby agrees that it assumes the risk of all dangerous conditions on or about the Property and waives notice of the existence of any such conditions.

2. Releasor's Agents, Servants, Etc. The Releasor shall inform its agents, servants, employees, subcontractors, sub-consultants, permitted assigns, affiliates, subsidiaries and anyone else accessing the Commission's Property on behalf of the Releasor that such parties shall agree to be bound by and execute this General Release and Indemnification Agreement. Releasor hereby agrees to be responsible for any breach of this General Release and Indemnification Agreement by any of its agents, servants, employees, subcontractors, sub-consultants, permitted assigns, affiliates, subsidiaries and anyone else accessing the Commission's Property on behalf of the Releasor.

3. Governing Law. This General Release and Indemnification Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania, without regard to principles of conflicts of law.

IN WITNESS WHEREOF, the Releasor, intending to be legally bound, has executed this General Release and Indemnification Agreement as of the date and year written below.

RELEASOR:

Name: _____ Signature: _____

—

—

Title: _____ Date: _____

—

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Company: _____

—

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14. Maintenance Bond Form

**Delaware River Joint Toll Bridge Commission
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Maintenance Bond

CONTRACT NO. DB-724A

BOND NO. _____

KNOWN ALL MEN BY THESE PRESENTS that we, _____ as
Principal (the "Principal"), and _____ a corporation organized and
existing under the laws of the _____ of _____, having its principal
office at _____, and authorized to do business in
the Commonwealth of Pennsylvania and State of New Jersey, as Surety (the "Surety"), are held
and firmly bound unto the Delaware River Joint Toll Bridge Commission as Obligee (the
"Obligee"), as hereinafter set forth in the full and just sum of
_____ Dollars (\$ _____), lawful money of the United
States of America, for the payment of which sum we bind ourselves, our heirs, executors,
administrators, successors and assigns, jointly and severally, firmly be these presents.

WITNESSETH THAT:

WHEREAS, the said Principal entered into a contract with the said Obligee, dated
_____, 2013 (the "Contract") to Design, Build and Maintain the ESS System
(the "Project") for the Obligee in Pennsylvania and New Jersey pursuant to the Contract
Documents (the "Contract Documents"); and

WHEREAS, the Contract Documents provide that the Principal shall provide
maintenance services for the New Electronic hardware and software procured and installed as
part of this Contract, and for the Existing ESS hardware of the Project pursuant to the terms and
conditions of the Contract Documents to Design, Build and Maintain the ESS System for a
period beginning upon the earlier of the Obligee's Approval of the Operation Test for Phase 1 of
the Work or upon the COMMISSION's Approval of the data Commissioning.

WHEREAS, the Contract further provides that the Principal shall furnish said Obligee
with a Maintenance Bond for one hundred percent (100%) of the annual value of the
Maintenance portions of the Contract, such Maintenance Bond to be renewed annually for the
duration of the Maintenance portion of the Contract, indemnifying the said Obligee against, *inter
alia*, all maintenance costs on the Project during the Maintenance Period.

Delaware River Joint Toll Bridge Commission
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NOW, THEREFORE, the terms and conditions of this Maintenance Bond are and shall be that if the said Principal shall provide without cost to the said Oblige, all maintenance services which may be required for the Project during the Maintenance Period, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

The Principal and the Surety agree that any alterations, changes and/or additions to the Contract Documents, and/or any alterations, changes and/or additions to the work to be performed under the Contract in accordance with the Contract Documents, and/or any alterations, changes and/or additions to the Contract, and/or any giving by the Oblige of any extensions of time for the performance of the Contract in accordance with the Contract Documents, and/or any act of forbearance of either the Principal or the Oblige toward the other with respect to the Contract Documents and the Contract, and/or the reduction of any percentage to be retained by the Oblige as permitted by the Contract Documents and by the Contract, shall not release, in any manner whatsoever, the Principal and the Surety, or either of them, or their heirs, executors, administrators, successors and assigns, from liability and obligations under this Maintenance Bond; and the Surety, for value received, does waive notice of any such alterations, changes, additions, extensions of time, acts of forbearance and/or reduction of retained percentage.

In the event that the Oblige incurs legal fees (e.g., fees of attorneys, paralegals and other legal professionals) for actual or potential default or enforcement of its rights under this Maintenance Bond, the Surety agrees to pay for all legal fees and costs incurred by the Oblige.

IN WITNESS WHEREOF, the Principal and the Surety cause this Maintenance Bond to be signed, sealed and delivered this _____ day of _____, 2013.

(Individual Principal)

_____(SEAL)
WITNESS: _____ (Signature of Individual)

Trading and Doing Business as

(Partnership Principal)

WITNESS: _____ (Name of Partnership)

By: _____ (SEAL)
Partner

By: _____ (SEAL)

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Partner

_____ By: _____ (SEAL)
Partner

(Corporate Principal)

ATTEST: _____
(Name of Corporation)

Secretary (Assistant Secretary)
(CORPORATE SEAL)

By: _____ (SEAL)
President (Vice President)

or (if appropriate)

WITNESS: _____
(Name of Corporation)

*By: _____
(Authorized Representative)

*Attach appropriate proof, with raised corporate seal, dated as of the same date as the Maintenance Bond, evidencing authority to execute on behalf of the corporation.

(Corporate Surety)

WITNESS: _____
(Name of Corporation)

**By: _____
(Attorney-in-Fact)

**Attach an appropriate power of attorney, with raised corporate seal, dated as of the same date as the Maintenance Bond, evidencing the authority of the Attorney-in-Fact to act on behalf of the Surety.

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15. Requirements Conformance Tables

NOTE: All PROPOSERS must complete and submit the Excel version of the Tables of Conformance which is available for downloading from the DRJTBC web site as a separate file (please see file “Tab 8-15 Requirements Conformance Tables.xls”). Sample is attached herein.

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16. Price Proposal Forms

NOTE: All PROPOSERS must complete and submit the Excel version of the Cost Proposal Forms which are available for downloading from the DRJTBC web site as a separate file (please see file "Tab 8-16 Price Proposal Forms.xls"). Sample is attached herein.

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17. Qualification Statement Form

**Delaware River Joint Toll Bridge Commission
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Qualification Statement

CONTRACT NO. DB-724A

The Undersigned certifies under oath that the information provided herein is true and sufficiently complete so as not to be misleading.

SUBMITTED TO: DELAWARE RIVER JOINT TOLL BRIDGE COMMISSION

ADDRESS: 110 Wood and Grove Streets

Morrisville, PA 19067

Attention: W. Michael Cane, Senior Project Manager

SUBMITTED BY:

NAME

ADDRESS:

PRINCIPAL OFFICE:

☐ Corporation

☐ Partnership

☐ Individual

☐ Joint Venture

☐ Other

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ORGANIZATION

Question: How many years has your organization been in business?

Response:

Question: How many years has your organization been in business under its present business name?

Response:

Question: Under what other or former names has your organization operated?

Response:

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Question: If your organization is a corporation, provide the following:

- Date of incorporation:
- State of incorporation:
- President's name:
- Vice-president's name(s):
- Secretary's name:
- Treasurer's name:

Question: If your organization is a partnership, provide the following:

- Date of organization:
- Type of partnership (if applicable):
- Name(s) of general partner(s):

Question: If your organization is individually owned, provide the following:

- Date of organization:
- Name of owner:

Question: If the form of your organization is other than those listed above, describe it and name the principals:

Response:

CLAIMS AND SUITS (If the answer to any of the questions below is yes, please attach details)

Question: Has your organization ever failed to complete any work awarded to it?

Response:

Question: Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers?

Response:

Question: Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five years?

Response:

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Question: Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract?

Response:

Question: List major construction projects your organization has in progress, giving the name or project, owner, architect / engineer, contract amount, percent complete, and scheduled completion date.

Response:

Question: State total worth of work in progress and under contract.

Response:

FINANCING

Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

- Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory, and prepaid expenses)
- Net Fixed Assets
- Other Assets

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- Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries, and accrued payroll taxes)
- Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus, and retained earnings)

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Question: Name and address of firm preparing attached financial statement, and date thereof.

Response:

Question: Is the attached financial statement for the identical organization named on page one? If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidary).

Response:

Question: Will the organization whose financial statement is attached act as guarantor of the contract for construction?

Response:

SIGNATURE

Signature

(Date)

(Name and Title)

Subscribed and sworn to
before me this _____
day of _____, 20 ____

My Commission expires _____, 20 ____

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18. CONTRACTOR RESPONSIBILITY CERTIFICATION

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Contractor Responsibility Certification

CONTRACT NO. DB-724A

Firm Name: _____
Firm Address: _____
Contact Name: _____
Telephone No.: _____
Fax No.: _____
Email Address: _____
Project Name: _____
Project Number: _____

The submitting firm is required to certify compliance with the following contractor responsibility standards by checking appropriate boxes.

For purposes hereof, all relevant time periods are calculated from the date this Certification is executed.

1. Has the firm been suspended and/or debarred by any federal, state or local government agency or authority in the past three years?

Yes No

2. Has any officer, director, or principal of the firm been convicted of a felony relating to construction or contracting industries?

Yes No

3. Has the firm defaulted on any project in the past three years?

Yes No

4. Has the firm had any type of business, contracting or trade license revoked or suspended for cause by any government agency or authority in the past three (3) years?

Yes No

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5. Has the firm been found in violation of any other law relating to its contracting business, including, but not limited to antitrust laws, licensing laws, tax laws, wage or hour laws, environmental or safety laws, by a final unappealed decision of a court or government agency in the past three (3) years, where the result of such adjudicated violation was the payment of a fine, damages or penalty in excess of \$1,000.

Yes No

6. Has the firm been the subject of voluntary or involuntary bankruptcy proceedings at any time in the past three years?

Yes No

7. Does the firm currently possess all applicable business, contractor and/or trade licenses or other appropriate licenses or certifications required by applicable state or local law to engage in the services it seeks to perform?

Yes No

8. Does the firm have all technical qualifications and resources, including equipment, personnel and financial resources, to perform the referenced contract, or will it obtain same through the use of qualified, responsible subcontractors?

Yes No

9. Does the firm or its subcontractors participate in an approved Apprenticeship Program which is currently registered with the U.S. Department of Labor or a State apprenticeship agency for all crafts or trades performing work on the subject project valued at \$250,000 or more.

Yes No

A "yes" answer to this question signifies that the firm will continue to participate in applicable apprenticeship programs for the full duration of the contract work.

10. In accordance with the applicable Responsible Contractor Provisions incorporated within the specifications for this Project, the firm agrees to provide, within 10 days of receipt of a Notice of Intent to Award the Contract, an executed Contractor Responsibility Certification from all craft or trade labor subcontractors with a subcontract valued at \$250,000 or more.

Yes No

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11. The firm represents that it has read, understands, and agrees to abide by, the Responsible Contractor Provisions incorporated within the specifications for the subject project.

Yes No

This certification has been completed by an authorized representative of the firm that the sufficient knowledge and information to certify to all matters addressed herein.

I certify that the foregoing representations regarding the past performance and present qualifications of the undersigned firm are true and correct.

Print and Sign Name

Title

Name of Firm

Date

Subscribed and Sworn to
Before me this ____ day
of _____, 20__

Notary Public
My Commission Expires: _____

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19. SAMPLE INSURANCE BROKER/AGENT LETTER

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**Sample Insurance Broker/Agent Letter
(To be printed on printed on insurance broker or insurance carrier letterhead)**

CONTRACT NO. DB-724A

DATE

Delaware River Joint Toll Bridge Commission
110 Wood and Grove Streets
Morrisville, Pennsylvania 19067

Re: DRJTBC Contract No. XXX, Capital Project XXX
[DESCRIPTION]

Dear _____:

As stipulated in Attachment ___ of the **(RFQ/RFLIOI)**, this letter confirms **(Broker/Insurance Carrier)** and **(Insured/Bidding Party)** ability to secure placement of all insurance requirements as outlined in the Commission's Insurance and Indemnification Requirements section. We will provide a sample 'Certificate of Insurance' indicating that **(Insured/Bidding Party)** can meet the minimum requirements stipulated herein.

Sincerely,

**Insurance Broker / Insurance Carrier
Name/Title**

Tab 2 Section	TAB 8-15 - Requirements Conformance Tables Part 1: Conformance with RFP Tab 2 ESS Scope of Work and Technical Requirements	Conforms to Requirement Yes/No?	COMMISSION Use Only	Contractor Comments
	DEFINED TERMS			
1	SCOPE OF WORK			
1.1	Project Overview			
1.2	General Requirements			
1.3	Legal Requirements			
2	FUNCTIONAL REQUIREMENTS			
2.1	General Requirements			
2.1.1	Maintainability			
2.1.2	Diagnostics			
2.1.3	Customized Hardware			
2.1.4	Assembly			
2.1.5	Environmental			
2.1.6	Bill of Materials (BOM)			
2.1.7	Hardware Warranty			
2.2	System Enhancements			
2.2.1	Phase 1: Supply and Installation of ESS Network Switches and Network Management System (NMS) Software			
2.2.2	Phase 2: Supply and Installation of ESS UPS			
2.2.3	Phase 3: Supply and Installation of ACS at Bridge Shelters			
2.2.4	Phase 4: Communications and Power Connections Update for I-78 Devices			
2.2.5	Phase 5: Supply and Installation of Video Analytics			
3	PROJECT MANAGEMENT SYSTEM			
3.1	Overview			
3.2	Project Schedule			
3.3	Weekly Progress Meetings and Report			
3.4	Project Meetings			
3.5	Staffing			
3.5.1	Key Personnel			
3.5.2	Staffing Plan			
3.6	Program Management Plan			
3.7	Development and Walkthrough			
3.8	Documentation			
3.8.1	General			
3.8.2	Engineering Design			
3.8.3	System Requirements Document			
3.8.4	System Detailed Design Document			
3.9	Quality Assurance and Quality Control Program			
3.10	Quality Assurance Plan			
3.11	Configuration Management System			
3.12	Change Control Process			
3.13	Records			
3.14	Control of Purchase			
3.14.1	Inspection and Verification			
3.14.2	Handling, Storage, and Delivery			
3.14.3	Inspection at Sub-contractor-ESS Contractor Facilities			
3.15	Training			
3.15.1	Overview of Training Program			

Tab 2 Section	TAB 8-15 - Requirements Conformance Tables Part 1: Conformance with RFP Tab 2 ESS Scope of Work and Technical Requirements	Conforms to Requirement Yes/No?	COMMISSION Use Only	Contractor Comments
4	INSTALLATION REQUIREMENTS			
4.1	Installation Program			
4.1.1	Installation Plan			
4.1.2	Weekly Installation Status Meetings			
4.1.3	Construction Coordination with COMMISSION Infrastructure Contractors			
4.2	Installation Scope of Work and Requirements			
4.2.1	Compliance to Standards			
4.2.2	ESS Installation Requirements			
4.2.3	System Installation and Upgrade			
4.2.4	Installation Checklist			
4.2.5	Electrical Work			
4.2.6	Work Standards and Requirements			
4.3	Design and Documentation During Installation			
4.3.1	Engineering Design Drawings			
4.3.2	Installation Design and Drawings			
4.3.3	As-Built Drawings/Documentation			
4.3.4	Test Documentation: Master Test Plan and Procedures			
4.4	Manual Requirements			
4.4.1	Overview			
4.4.2	Manual Quantities			
4.4.3	Manuals to be Submitted			
4.4.4	ESS System Operations Plan			
4.4.5	System User's Manual			
4.4.6	Maintenance Service Manual			
4.4.7	System Administrators Manual			
4.4.8	Third Party Software Manual Set			
4.4.9	Third Party Hardware Manual Set			
4.5	As-Built Documentation			
4.5.1	System Detailed Design Document			
4.5.2	AS-Built Drawings			
4.5.3	Training Plan			
4.5.4	Training Requirements			
4.5.5	Training Facilities			
4.5.6	Scheduling and Preparation for Training			
4.5.7	Training Materials			
4.5.8	Instructor Guides			
4.5.9	Training Aids			
4.5.10	Training Room Set-up and Software Installation			
5	TESTING REQUIREMENTS AND SYSTEM ACCEPTANCE			
5.1	General Testing Requirements			
5.1.1	Test Plan			
5.1.2	Test Procedures			
5.2	Factory Acceptance Test (FAT)			
5.2.1	Hardware Testing			
5.2.2	Functionality Testing			
5.3	Site Acceptance Test (SAT)			
5.4	Operational Acceptance Test (OAT)			
5.5	Project Acceptance			

Tab 2 Section	TAB 8-15 - Requirements Conformance Tables Part 1: Conformance with RFP Tab 2 ESS Scope of Work and Technical Requirements	Conforms to Requirement Yes/No?	COMMISSION Use Only	Contractor Comments
6	DESCRIPTION OF MAINTENANCE AND SOFTWARE SUPPORT SERVICES			
6.1	Scope of Work for Maintenance Services			
6.2	Maintenance Plan and Procedures Manual			
6.3	Notifications			
6.4	Records			
6.5	Maintenance Personnel and Access Security			
6.6	Warranties and Guarantees			
6.7	Preventive Maintenance			
6.8	Spare Parts and Equipment Assemblies			
6.9	Bench Test Simulator			
6.10	Corrective Work			
6.11	Hardware Maintenance and Support			
6.12	Software Maintenance and System Administration			
6.13	Software Change Notification Service			
6.14	Software Updates			
6.15	Software Licenses			
6.16	Local and Wide Area Network Maintenance and Support			
6.17	Maintenance Response and Repair			
6.18	Change Control			
6.19	Computerized Change Control System			
6.20	Capacity Management and Performance Monitoring			
6.21	Other On-Call Services			
6.22	Documentation Library			
6.23	Key Relationships			
6.24	ESS Contractor Review/Report On System Environment			
6.25	Data Security – Safeguarding Data			
6.26	Maintenance and Protection of Traffic (MPT)			
6.27	Unforeseen Work			
6.28	Changes to the ESS			

TAB 8-15 - Requirements Conformance Tables Part 2: Conformance with ESS RFP Submittal Requirements	Completed and Submitted? Yes/No	COMMISSION Use Only	Contractor Comments
RFP Tab 8-15 Tables of Conformance (parts 1 and 2)			
RFP Tab 1 Article 5 Confirmation of Receipt of all Addenda			
RFP Tab 1 Article 23 Section 1 Project Approach			
RFP Tab 1 Article 23 Section 2 Project Approach to System Enhancements			
RFP Tab 1 Article 23 Section 3 Project Approach to Maintenance and Warranty			
RFP Tab 1 Article 23 Section 4 Project Schedule and Project Plan			
RFP Tab 1 Article 23 Section 5 Project Team Qualifications and Demonstrated Experience:			
RFP Tab 1 Article 23 Section 6 Firm Capabilities			
RFP Tab 1 Article 23 Section 7 Proposal Forms			
RFP Tab 1 Article 23 Section 8 Exceptions			
RFP Tab 1 Article 23 Appendix 1: Product Cut Sheets			
RFP Tab 1 Article 23 Appendix 2: Preliminary Bill of Materials			
RFP Tab 1 Article 23 Appendix 3: Certifications			
RFP Tab 1 Article 23 Appendix 4: IBE Participation Forms			
Tab 8-1 Proposal Bond			
Tab 8-2 Confidentiality Statement – A signed Confidentiality Statement to be executed by an officer of the named PROPOSER or by its duly authorized representative.			
Tab 8-3 Certification of Compliance with Bonding Requirements			
Tab 8-4 Certification of Compliance with Affirmative Action Requirements			
Tab 8-5 Insurance and Indemnification Certification Form			
Tab 8-6 Non-Collusion Affidavit			
Tab 8-7 Certificate of Eligibility			
Tab 8-8 Reference Forms Parts 1 & 2			
Tab 8-9 Conflict of Interest and Recusal Certification Form			
Tab 8-10 Payment Bond			
Tab 8-11 Performance Bond			
Tab 8-12 Waiver of Liens			
Tab 8-13 General Release and Indemnification Agreement			
Tab 8-14 Maintenance Bond			
Tab 8-15 Requirements Conformance Tables			
Tab 8-16 Price Proposal Forms			
Tab 8-17 Qualification Statement Form			
Tab 8-18 Contractor Responsibility Certification			
Tab 8-19 Insurance Broker/Agent Letter			

SIGNATURE

Signature

(Date)

(Name and Title)

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TAB 8-16 Sheet 1 Price Summary			
Item	Sheet#	Description of Service	Total Cost (\$)
1	2A	Total Maintenance Services - Years 1, 2 and 3	\$ -
2	2B	Total Maintenance Services - Year 4 (Optional by the COMMISSION)	\$ -
3	2C	Total Maintenance Services - Year 5 (Optional by the COMMISSION)	\$ -
4	3	Total System Enhancements	\$ -
5	N/A	Unforeseen Work Allowance	\$ 600,000
		TOTAL CONTRACT PRICE (Total items 1,2,3,4 & 5)	

Officer Signature

Typed Name, Title, Address and Phone Number

Date

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TAB 8-16 Sheet 2A
Maintenance Services (Years 1, 2 and 3)

Item #	Description	Total Cost
1	ESS Workstations at TB and TSB locations	\$ -
2	ESS Workstations at PCC and SCC locations	\$ -
3	Video Management System (VMS)	\$ -
4	Access Control System (ACS)	\$ -
5	Video Analytics (VA) System	\$ -
6	Active Directory (AD) Services	\$ -
7	SNMP, Email, Asset Management, Anti-Virus and other Systems	\$ -
8	Camera System: Including, but not limited to, camera, power supplies, cables, focus, cleaning, encoder, heater, fans, housing, communications, etc.	\$ -
9	HVAC and Electrical systems: Including, but not limited to, power supplies, battery, UPS, generators, air conditioners, heaters, fans, propane level guages, etc.	\$ -
10	Local Area Networks (LANs)	\$ -
11	All other ESS components.	\$ -
12	Existing Scudders Falls Toll-Supported Bridge	\$ -
	<i>Planned Future Projects</i>	
13	Administration Building at Scudder Falls	\$ -
14	Adaptive Reuse of 1799 House	\$ -
15	BM/AET Building	\$ -
16	New Scudder Falls Toll Bridge (SB Structure)	\$ -
17	New Scudder Falls Toll Bridge (NB Structure)	\$ -
TOTAL MAINTENANCE COSTS (Years 1-3)		\$ -

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TAB 8-16 Sheet 2B Maintenance Services (Optional Year 4)		
Item #	Description	Total Cost
1	ESS Workstations at TB and TSB locations	\$ -
2	ESS Workstations at PCC and SCC locations	\$ -
3	Video Management System (VMS)	\$ -
4	Access Control System (ACS)	\$ -
5	Video Analytic (VA) System	\$ -
6	Active Directory (AD) Services	\$ -
7	SNMP, Email, Asset Management, Anti-Virus and other Systems	\$ -
8	Camera System: Including, but not limited to, camera, power supplies, cables, focus, cleaning, encoder, heater, fans, housing, communications, etc.	\$ -
9	HVAC and Electrical systems: Including, but not limited to, power supplies, battery, UPS, generators, air conditioners, heaters, fans, propane level guages, etc.	\$ -
10	Local Area Networks (LANs) including wireless systems at each location	\$ -
11	All other ESS components.	\$ -
TOTAL MAINTENANCE COST (Year 4)		\$ -

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TAB 8-16 Sheet 2C
Maintenance Services (Optional Year 5)

Item #	Description	Total Cost
1	ESS Workstations at TB and TSB locations	\$ -
2	ESS Workstations at PCC and SCC locations	\$ -
3	Video Management System (VMS)	\$ -
4	Access Control System (ACS)	\$ -
5	Video Analytic (VA) System	\$ -
6	Active Directory (AD) Services	\$ -
7	SNMP, Email, Asset Management, Anti-Virus and other Systems	\$ -
8	Camera System: Including, but not limited to, camera, power supplies, cables, focus, cleaning, encoder, heater, fans, housing, communications, etc.	\$ -
9	HVAC and Electrical systems: Including, but not limited to, power supplies, battery, UPS, generators, air conditioners, heaters, fans, propane level guages, etc.	\$ -
10	Local Area Networks (LANs) including wireless systems at each location	\$ -
11	All other ESS components.	\$ -
TOTAL MAINTENANCE COST (Year 5)		\$ -

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TAB 8-16 Sheet 3 System Enhancements		
Item #	Description	Total Cost
A	PHASE 1: Network Switches	
1	Switch Hardware	\$ -
2	Network Management System (NMS)	\$ -
3	Commissioning and Testing	\$ -
4	Warranty	\$ -
5	Licenses	\$ -
6	Support	\$ -
7	Training	\$ -
8	Documentation	\$ -
9	Project Management	\$ -
10	Engineering and Design	\$ -
11	Labor	\$ -
	Total Cost for Phase 1	\$ -
B	PHASE 2: Uninterruptible Power Supply (UPS)	
1	UPS Hardware	\$ -
2	Application Software	\$ -
3	Commissioning and Testing	\$ -
4	Warranty	\$ -
5	Licenses	\$ -
6	Support	\$ -
7	Training	\$ -
8	Documentation	\$ -
9	Project Management	\$ -
10	Engineering and Design	\$ -
11	Labor	\$ -
	Total Cost for Phase 2	\$ -
C	PHASE 3: Access Control at Toll-Supported Bridge Shelters	
1	ACS and IPS Hardware	\$ -
2	Application Software	\$ -
3	Window Hardening	\$ -
4	Commissioning and Testing	\$ -
5	Warranty	\$ -
6	Licenses	\$ -
7	Support	\$ -
8	Training	\$ -
9	Documentation	\$ -
10	Project Management	\$ -
11	Engineering and Design	\$ -
12	Labor	\$ -
	Total Cost for Phase 3	\$ -

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TAB 8-16 Sheet 3 System Enhancements		
Item #	Description	Total Cost
D	PHASE 4: Communications and Power at I78	
1	Fibre Optic Cable	\$ -
2	Power Cable	\$ -
3	Conduit	\$ -
4	Manhole	\$ -
5	Handhole	\$ -
6	Cabinet	\$ -
7	Fibre Patch Panel	\$ -
8	Network Switch	\$ -
9	Commissioning and Testing	\$ -
10	Warranty	\$ -
11	Licenses	\$ -
12	Support	\$ -
13	Training	\$ -
14	Documentation	\$ -
15	Project Management	\$ -
16	Engineering and Design	\$ -
17	Labor	\$ -
	Total Cost for Phase 4	\$ -
E	PHASE 5: Video Analytics	
1	Video Analytics Proof of Concept	\$ -
2	Video Analytics Hardware	\$ -
3	Application Software	\$ -
4	Operating System	\$ -
5	Commissioning and Testing	\$ -
6	Warranty	\$ -
7	Licenses	\$ -
8	Support	\$ -
9	Training	\$ -
10	Documentation	\$ -
11	Project Management	\$ -
12	Engineering and Design	\$ -
13	Labor	\$ -
	Total Cost for Phase 5	\$ -
	Total Cost for System Enhancements	\$ -

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TAB 8-16 Sheet 4

Key Staff and Position Classifications with Rates

Item #	KEY STAFF NAMES	POSITION/CLASSIFICATION	BILLING RATE
1	(Name 1)	Project Principal	\$ -
2		Project Manager	\$ -
3		Assistance Project Manager	\$ -
4		Quality Assurance Manager	\$ -
5		System Administrator	\$ -
6		Network Administrator	\$ -
7		System Analyst	\$ -
8		Solutions Architect	\$ -
9		Solutions Engineer	\$ -
10		Systems Engineer	\$ -
11		Electrical Maintenance Technician	\$ -
12		Telecommunications Maintenance Technician	\$ -
13		HVAC Maintenance Technician	\$ -
14		Manager, Quality Engineering	\$ -
15		Installation Technician	\$ -
16		Installation Supervisor	\$ -
17		CADD Technician	\$ -
18		Certified Training Professional	\$ -
19		Administrative Assistant(s)	\$ -
20			\$ -
21			\$ -
22			\$ -
23			\$ -
24			\$ -
25			\$ -
26			\$ -
27			\$ -
28			\$ -
29			\$ -
30			\$ -
31			\$ -
32			\$ -
33			\$ -
34			\$ -
35			\$ -
36			\$ -
37			\$ -
38			\$ -
39			\$ -
40			\$ -
41			\$ -
42	See Tab 9 for Prevailing Wage Rates		\$ -

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TAB 8-16 Sheet 5 Unit Pricing Summary				
Item #	Description			
A	LAN/WAN Communication Equipment	Unit Price	Labor Price	Maintenance Cost
1	Switch Hardware	\$ -	\$ -	\$ -
2	Router Hardware	\$ -	\$ -	\$ -
3	Access Point Hardware	\$ -	\$ -	\$ -
4	Antenna	\$ -	\$ -	\$ -
5	Ethernet Patch Panel	\$ -	\$ -	\$ -
6	Fiber Optic Patch Panel	\$ -	\$ -	\$ -
7	Network Management Software and Licenses	\$ -	\$ -	\$ -
8	Communication Cabinet	\$ -	\$ -	\$ -
9	Fiber Splicing	\$ -	\$ -	\$ -
10	Cabinet	\$ -	\$ -	\$ -
11	Rack/Card Cage	\$ -	\$ -	\$ -
12	Commissioning Test	\$ -	\$ -	\$ -
B	Cost to Add Video:	Unit Price	Labor Price	Maintenance Cost
1	Fixed Camera	\$ -	\$ -	\$ -
2	PTZ Camera	\$ -	\$ -	\$ -
3	IR Camera	\$ -	\$ -	\$ -
4	Thermal Camera	\$ -	\$ -	\$ -
5	Camera Power Supply	\$ -	\$ -	\$ -
6	Fiber Optic Controller	\$ -	\$ -	\$ -
7	Camera Lowering System	\$ -	\$ -	\$ -
8	Video Encoder 8 Channel	\$ -	\$ -	\$ -
9	Video Encoder 4 Channel	\$ -	\$ -	\$ -
10	Video Encoder Power Supply	\$ -	\$ -	\$ -
11	Additional Analytic License	\$ -	\$ -	\$ -
12	Additional Camera License	\$ -	\$ -	\$ -
13	Additional Storage Capacity for Video Storage (per disk)	\$ -	\$ -	\$ -
14	Additional Storage Enclosure	\$ -	\$ -	\$ -
C	Cost to Add Access Control:	Unit Price	Labor Price	Maintenance Cost
1	Reader Interface Board	\$ -	\$ -	\$ -
2	Input/Output Control Module Board	\$ -	\$ -	\$ -
3	Intelligent System Controller Board	\$ -	\$ -	\$ -
4	Low Voltage Power Supply	\$ -	\$ -	\$ -
5	Card Reader	\$ -	\$ -	\$ -
6	Door Contact	\$ -	\$ -	\$ -
7	Door Contact (Overhead Door)	\$ -	\$ -	\$ -
8	Electric Lock with integral rex (Panic Bar)	\$ -	\$ -	\$ -
9	Electric Strike	\$ -	\$ -	\$ -
10	Magnetic Lock	\$ -	\$ -	\$ -
11	Motion Detector	\$ -	\$ -	\$ -
12	Horn/Strobe	\$ -	\$ -	\$ -

Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Price Proposal Forms

TAB 8-16 Sheet 5 Unit Pricing Summary				
Item #	Description			
13	Access Panel Enclosure	\$ -	\$ -	\$ -
14	Backup Battery	\$ -	\$ -	\$ -
15	Tamper Switch	\$ -	\$ -	\$ -
16	Badge Printer	\$ -	\$ -	\$ -
17	Photo ID Capture Camera	\$ -	\$ -	\$ -
18	Security ID Cards (Quantity of 1000)	\$ -	\$ -	\$ -
19	Security Window Film	\$ -	\$ -	\$ -
20	Door	\$ -	\$ -	\$ -
21	Door Frame	\$ -	\$ -	\$ -
D	Cost for Other Equipment:	Unit Price	Labor Price	Maintenance Cost
1	KVM switch (including cables)	\$ -	\$ -	\$ -
2	KVM Rack Mount Kit	\$ -	\$ -	\$ -
3	6000 VA UPS	\$ -	\$ -	\$ -
4	5000 VA UPS	\$ -	\$ -	\$ -
5	Power Distribution Unit for UPS	\$ -	\$ -	\$ -
6	UPS Rail Mount Kits	\$ -	\$ -	\$ -
7	Propane Monitoring System	\$ -	\$ -	\$ -
8	Propane Tank	\$ -	\$ -	\$ -
9	Temperature Sensor	\$ -	\$ -	\$ -
10	Humidity Sensor	\$ -	\$ -	\$ -
11	Cable Management	\$ -	\$ -	\$ -
12	Camera Cleaning (in excess of scheduled cleaning)	\$ -	\$ -	\$ -

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Prevailing Wage Rates**



**TAB 9
PREVAILING WAGE RATES**

**Electronic Surveillance / Detection System (ESS)
Maintenance Contract**

**Request for Proposals
Contract No. DB-724A
Capital Project: 1801A**

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Prevailing Wage Rates**

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**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Prevailing Wage Rates**

PREVAILING WAGE RATES

DUTIES OF CONTRACTOR UNDER PENNSYLVANIA AND NEW JERSEY MINIMUM WAGES

The Secretary of Labor and Industry from Pennsylvania and the Commissioner of Labor from New Jersey have determined the attached general prevailing minimum wage rates including contributions for employee benefits.

The Contractor shall pay to all working persons employed in the performance of this Contract the higher prevailing wage rate from the two sets of wage rates shown in the following pages of this document for each craft and classification involved in the performance of the work.

The Contractor shall pay no less than the wage rates as determined in the decision of the Secretary of Labor and Industry and shall comply with the conditions of the Pennsylvania Prevailing Wage Act approved August 15, 1962 (Act No. 442), as amended August 9, 1963 (Act No. 342), and the Regulations issued pursuant thereto, to assure the full and proper payment of said rates, if applicable.

The Contractor shall pay no less than the wage rates as determined in the decision of the Commissioner of Labor and shall comply with the conditions of the New Jersey Laws of 1963, Chapter 150, if applicable.

Where there is a difference in conditions as defined by the two states the condition that, in the judgment of the Engineer is most advantageous to the employee shall apply.

Applicable rates are those cash rates and fringe benefits in effect on the date the Contract is awarded. All applicable rate increases must be paid to the work force beginning on the date specified.

The workmen shall be paid no less than such general prevailing minimum wage rates and such other provisions to assure payment thereof as hereinafter set forth. Contractors not paying the itemized employee benefits to a payee designated in a collective bargaining agreement shall pay them directly to the employee on each payday.

These provisions shall apply to all work performed under this Contract by the Contractor and any subcontractors.

The Contractor shall insert in each of his subcontracts all of the stipulations contained in these required provisions and such other stipulations as may be required.

No workmen may be employed on the project except in accordance with the classifications set forth herein. In the event that additional or different classifications are necessary the procedure set forth in Section 7 of the Pennsylvania Regulations shall be followed.

All workmen employed or working on the project shall be paid unconditionally regardless of whether any contractual relationship exists, or the nature of any contractual relationship which may be alleged to exist between any contractor, subcontractor and workmen, not less than once a week without deduction or rebate, on any account, either directly or indirectly, except authorized deductions, the full amounts due at the time of payment, compute at the rates applicable to the time worked in the appropriate classification.

Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Prevailing Wage Rates

The Contractor and each subcontractor shall post for the entire period of construction the wage determination decisions set forth herein, including the effective date of any changes thereof, in a prominent and easily accessible place or places at the site of the work and at such place or places used by them to pay workmen their wages. The posted notice of wage rates must contain the following information:

- Name of project
- Name of agency (DRJTBC) for which it is being constructed.
- The crafts and classifications of workmen listed herein.
- The general prevailing minimum wage rates determined for each craft and classification and the effective date of any changes.
- A statement advising workmen that if they have been paid less than the general prevailing minimum wage rate for their job classification or that the Contractor and/or subcontractor are not complying with these requirements in any manner whatsoever that they may file a protest in writing with the Chief Engineer of the Delaware River Joint Toll Bridge Commission within three (3) months of the date of the occurrence, objecting to the payment by any contractor to the extent of the amount or amounts due or to become due to them as wages for work performed on this project. Any workmen paid less than the rate of action for the difference between the wage paid and the wages stipulated in the Contract, which right of action must be exercised within six (6) months from the occurrence of the event creating such right.

The Contractor and all subcontractors shall keep an accurate record showing the name, craft and/or classification, number of hours worked per day, and the actual hourly rate of wage paid (including employee benefits) to each workman employed by him in connection with this Contract and such record must include any deductions from each workman. The record shall be preserved for two years from the date of payment and shall be open at all reasonable hours to the inspection of the Engineer or his duly authorized representatives.

Apprentices shall be limited to such numbers as shall be in accordance with a bona fide apprenticeship program registered with and approved by the Pennsylvania Apprenticeship and Training Council and only apprentices whose training and employment are in full compliance with the provisions of the Apprenticeship and Training Act approved July 14, 1961 (Act No. 304) and the Rules and Regulations issued pursuant thereto shall be employed on this project. Any workman using the tools of a craft who does qualify as an apprentice within the provisions of the subsection shall be paid the rate predetermined for journeymen in that particular craft and/or classification. Those apprentices from New Jersey must comply with New Jersey Rules and Regulations.

Wages shall be paid without any deductions except authorized deductions. Employers not party to a contract requiring contributions for employee benefits which the Engineer has determined to be included in the general prevailing minimum wage rates shall pay the monetary equivalent thereof directly to the workmen.

Payment of compensation to workmen for work performed on this project on a lump sum basis,

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
Prevailing Wage Rates**

or a piece work system, or a price certain for the completion of a certain amount of work, or the production of a certain result shall be deemed a violation of this Contract regardless of the average hourly earnings resulting therefrom.

The Contractor and each subcontractor shall file a statement each week and a final statement at the conclusion of the work on this Contract, under oath, and in form satisfactory to the Engineer, certifying that all workmen have been paid wages in strict conformity with the provisions; if any wages remain unpaid to set forth the amount of wages due and owing to each workman respectively.

APPLICABLE CONTRACT WAGE RATES

The following prevailing wage rate forms required by this contract are included herein.

Pennsylvania - Pike County (Total of 9 Pages)
Pennsylvania - Monroe County (Total of 9 Pages)
Pennsylvania - Northampton County (Total of 10 Pages)
Pennsylvania - Bucks County (Total of 10 Pages)
New Jersey - Statewide (Total of 52 Pages)
New Jersey - Sussex County (Total of 120 Pages)
New Jersey - Warren County (Total of 121 Pages)
New Jersey - Hunterdon County (Total of 123 Pages)
New Jersey - Mercer County (Total of 124 Pages)

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	Electronic Surveillance / Detection System Maintenance Contract
Awarding Agency:	Delaware River Joint Toll Bridge Commission
Contract Award Date:	3/28/2018
Serial Number:	18-01782
Project Classification:	Building
Determination Date:	3/9/2018
Assigned Field Office:	Scranton
Field Office Phone Number:	(570)963-4577
Toll Free Phone Number:	(877)214-3962
Project County:	Pike County

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01782 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	7/1/2019		\$32.48	\$20.52	\$53.00
Asbestos & Insulation Workers	7/1/2018		\$32.48	\$19.52	\$52.00
Asbestos & Insulation Workers	7/1/2016		\$32.48	\$18.52	\$51.00
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2018		\$29.52	\$18.22	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2017		\$28.52	\$18.22	\$46.74
Boilermakers	3/1/2018		\$45.89	\$33.73	\$79.62
Boilermakers	1/1/2018		\$46.26	\$33.36	\$79.62
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2020		\$35.94	\$17.14	\$53.08
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2021		\$36.82	\$17.36	\$54.18
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2019		\$35.15	\$16.93	\$52.08
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2017		\$33.82	\$16.56	\$50.38
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2018		\$34.44	\$16.74	\$51.18
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	5/1/2019		\$29.68	\$18.23	\$47.91
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	5/1/2020		\$30.13	\$18.98	\$49.11
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	5/1/2018		\$29.28	\$17.48	\$46.76
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	5/1/2017		\$28.88	\$16.78	\$45.66
Cement Finishers	12/1/2016		\$32.43	\$11.35	\$43.78
Drywall Finisher	5/1/2017		\$27.81	\$18.17	\$45.98
Electricians & Telecommunications Installation Technician	6/1/2017		\$35.94	\$21.70	\$57.64
Elevator Constructor	1/1/2016		\$45.04	\$30.28	\$75.32
Elevator Constructor	1/1/2018		\$47.48	\$33.00	\$80.48
Glazier	5/1/2016		\$29.02	\$15.51	\$44.53
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2017		\$32.32	\$28.42	\$60.74
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2018		\$33.07	\$28.42	\$61.49
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2019		\$33.76	\$28.42	\$62.18
Laborers (Class 01 - See notes)	5/1/2018		\$21.40	\$17.63	\$39.03
Laborers (Class 01 - See notes)	5/1/2017		\$21.15	\$16.88	\$38.03
Laborers (Class 01 - See notes)	5/1/2019		\$21.70	\$18.33	\$40.03
Laborers (Class 01 - See notes)	5/1/2020		\$22.05	\$19.03	\$41.08
Laborers (Class 02 - See notes)	5/1/2019		\$23.70	\$18.33	\$42.03
Laborers (Class 02 - See notes)	5/1/2018		\$23.40	\$17.63	\$41.03
Laborers (Class 02 - See notes)	5/1/2020		\$24.05	\$19.03	\$43.08
Laborers (Class 02 - See notes)	5/1/2017		\$23.15	\$16.88	\$40.03
Laborers (Class 03 - See notes)	5/1/2020		\$24.05	\$19.32	\$43.37
Laborers (Class 03 - See notes)	5/1/2019		\$24.47	\$18.62	\$43.09

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 18-01782 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 03 - See notes)	5/1/2017		\$23.67	\$17.17	\$40.84
Laborers (Class 03 - See notes)	5/1/2018		\$24.02	\$17.92	\$41.94
Laborers (Class 04 - See notes)	5/1/2020		\$26.12	\$19.21	\$45.33
Laborers (Class 04 - See notes)	5/1/2018		\$25.52	\$17.92	\$43.44
Laborers (Class 04 - See notes)	5/1/2017		\$25.17	\$17.17	\$42.34
Laborers (Class 04 - See notes)	5/1/2019		\$25.97	\$18.51	\$44.48
Laborers (Class 05 - See notes)	5/1/2020		\$26.12	\$19.21	\$45.33
Laborers (Class 05 - See notes)	5/1/2017		\$25.67	\$17.17	\$42.84
Laborers (Class 05 - See notes)	5/1/2018		\$26.02	\$17.81	\$43.83
Laborers (Class 05 - See notes)	5/1/2019		\$26.47	\$18.51	\$44.98
Laborers (Class 06 - See notes)	5/1/2019		\$24.47	\$18.33	\$42.80
Laborers (Class 06 - See notes)	5/1/2020		\$24.82	\$19.03	\$43.85
Laborers (Class 06 - See notes)	5/1/2018		\$24.17	\$17.63	\$41.80
Laborers (Class 06 - See notes)	5/1/2017		\$23.92	\$16.88	\$40.80
Marble Mason	5/1/2021		\$34.23	\$15.90	\$50.13
Marble Mason	5/1/2020		\$33.45	\$15.68	\$49.13
Marble Mason	5/1/2017		\$31.03	\$15.10	\$46.13
Marble Mason	5/1/2018		\$31.85	\$15.28	\$47.13
Marble Mason	5/1/2019		\$32.66	\$15.47	\$48.13
Millwright	5/1/2017		\$33.79	\$18.16	\$51.95
Operators (Building, Class 01 - See Notes)	5/1/2019		\$38.32	\$25.49	\$63.81
Operators (Building, Class 01 - See Notes)	5/1/2020		\$39.87	\$25.94	\$65.81
Operators (Building, Class 01 - See Notes)	5/1/2017		\$35.24	\$24.58	\$59.82
Operators (Building, Class 01 - See Notes)	5/1/2018		\$36.78	\$25.03	\$61.81
Operators (Building, Class 01 - See Notes)	5/1/2021		\$41.41	\$26.40	\$67.81
Operators (Building, Class 01A - See Notes)	5/1/2020		\$42.12	\$26.60	\$68.72
Operators (Building, Class 01A - See Notes)	5/1/2021		\$43.66	\$27.06	\$70.72
Operators (Building, Class 01A - See Notes)	5/1/2019		\$40.57	\$26.15	\$66.72
Operators (Building, Class 01A - See Notes)	5/1/2017		\$37.49	\$25.23	\$62.72
Operators (Building, Class 01A - See Notes)	5/1/2018		\$39.03	\$25.69	\$64.72
Operators (Building, Class 02 - See Notes)	5/1/2020		\$39.59	\$25.84	\$65.43
Operators (Building, Class 02 - See Notes)	5/1/2021		\$41.13	\$26.30	\$67.43
Operators (Building, Class 02 - See Notes)	5/1/2019		\$38.05	\$25.39	\$63.44
Operators (Building, Class 02 - See Notes)	5/1/2017		\$34.96	\$24.49	\$59.45
Operators (Building, Class 02 - See Notes)	5/1/2018		\$36.50	\$24.95	\$61.45
Operators (Building, Class 02A - See Notes)	5/1/2019		\$40.30	\$26.06	\$66.36
Operators (Building, Class 02A - See Notes)	5/1/2021		\$43.38	\$26.98	\$70.36
Operators (Building, Class 02A - See Notes)	5/1/2018		\$38.75	\$25.61	\$64.36
Operators (Building, Class 02A - See Notes)	5/1/2016		\$36.43	\$23.93	\$60.36
Operators (Building, Class 02A - See Notes)	5/1/2017		\$37.21	\$25.16	\$62.37
Operators (Building, Class 03 - See Notes)	5/1/2018		\$33.78	\$24.12	\$57.90
Operators (Building, Class 03 - See Notes)	5/1/2017		\$32.23	\$23.68	\$55.91
Operators (Building, Class 03 - See Notes)	5/1/2021		\$38.41	\$25.50	\$63.91
Operators (Building, Class 03 - See Notes)	5/1/2020		\$36.86	\$25.05	\$61.91

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 18-01782 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building, Class 03 - See Notes)	5/1/2019		\$35.32	\$24.59	\$59.91
Operators (Building, Class 04 - See Notes)	5/1/2020		\$35.73	\$24.71	\$60.44
Operators (Building, Class 04 - See Notes)	5/1/2021		\$37.26	\$25.18	\$62.44
Operators (Building, Class 04 - See Notes)	5/1/2017		\$30.33	\$22.12	\$52.45
Operators (Building, Class 04 - See Notes)	5/1/2019		\$34.17	\$24.27	\$58.44
Operators (Building, Class 04 - See Notes)	5/1/2018		\$32.63	\$23.80	\$56.43
Operators (Building, Class 05 - See Notes)	5/1/2021		\$36.82	\$25.04	\$61.86
Operators (Building, Class 05 - See Notes)	5/1/2017		\$29.87	\$21.99	\$51.86
Operators (Building, Class 05 - See Notes)	5/1/2020		\$35.28	\$24.59	\$59.87
Operators (Building, Class 05 - See Notes)	5/1/2018		\$32.18	\$23.69	\$55.87
Operators (Building, Class 05 - See Notes)	5/1/2019		\$33.73	\$24.14	\$57.87
Operators (Building, Class 06 - See Notes)	5/1/2020		\$34.40	\$24.32	\$58.72
Operators (Building, Class 06 - See Notes)	5/1/2018		\$31.31	\$23.41	\$54.72
Operators (Building, Class 06 - See Notes)	5/1/2019		\$32.86	\$23.86	\$56.72
Operators (Building, Class 06 - See Notes)	5/1/2017		\$29.00	\$21.72	\$50.72
Operators (Building, Class 06 - See Notes)	5/1/2021		\$35.95	\$24.77	\$60.72
Operators (Building, Class 07A- See Notes)	5/1/2021		\$49.86	\$30.31	\$80.17
Operators (Building, Class 07A- See Notes)	5/1/2018		\$44.29	\$28.68	\$72.97
Operators (Building, Class 07A- See Notes)	5/1/2017		\$42.44	\$28.13	\$70.57
Operators (Building, Class 07A- See Notes)	5/1/2020		\$48.00	\$29.77	\$77.77
Operators (Building, Class 07A- See Notes)	5/1/2019		\$46.15	\$29.22	\$75.37
Operators (Building, Class 07B- See Notes)	5/1/2018		\$43.95	\$28.58	\$72.53
Operators (Building, Class 07B- See Notes)	5/1/2017		\$42.09	\$28.03	\$70.12
Operators (Building, Class 07B- See Notes)	5/1/2021		\$49.51	\$30.20	\$79.71
Operators (Building, Class 07B- See Notes)	5/1/2020		\$47.65	\$29.67	\$77.32
Operators (Building, Class 07B- See Notes)	5/1/2019		\$45.80	\$29.12	\$74.92
Painters Class 1 (see notes)	5/1/2017		\$27.25	\$18.17	\$45.42
Painters Class 2 (see notes)	5/1/2017		\$30.15	\$18.17	\$48.32
Painters Class 3 (see notes)	5/1/2017		\$36.25	\$18.17	\$54.42
Pile Driver Divers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Plasterers	6/1/2016		\$32.94	\$10.92	\$43.86
Plumbers and Steamfitters	6/1/2017		\$41.24	\$20.77	\$62.01
Plumbers and Steamfitters	6/1/2018		\$42.64	\$20.77	\$63.41
Plumbers and Steamfitters	6/1/2019		\$44.04	\$20.77	\$64.81
Roofers	6/1/2017		\$27.50	\$19.08	\$46.58
Roofers	6/1/2016		\$27.00	\$18.18	\$45.18
Roofers	6/1/2015		\$26.50	\$17.38	\$43.88
Sheet Metal Workers	5/1/2017		\$30.61	\$22.95	\$53.56
Sprinklerfitters	4/1/2018		\$38.80	\$22.74	\$61.54
Sprinklerfitters	4/1/2017		\$37.40	\$21.74	\$59.14
Terrazzo Finisher	5/1/2019		\$33.04	\$16.22	\$49.26
Terrazzo Finisher	5/1/2018		\$32.35	\$15.91	\$48.26

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01782 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Terrazzo Finisher	5/1/2017		\$31.64	\$15.62	\$47.26
Terrazzo Setter	5/1/2019		\$31.81	\$19.67	\$51.48
Terrazzo Setter	5/1/2018		\$31.23	\$19.25	\$50.48
Terrazzo Setter	5/1/2017		\$30.63	\$18.85	\$49.48
Tile & Marble Finisher	5/1/2020		\$30.54	\$15.18	\$45.72
Tile & Marble Finisher	5/1/2021		\$31.32	\$15.40	\$46.72
Tile & Marble Finisher	5/1/2019		\$29.30	\$15.42	\$44.72
Tile & Marble Finisher	5/1/2017		\$28.12	\$14.60	\$42.72
Tile & Marble Finisher	5/1/2018		\$28.94	\$14.78	\$43.72
Tile Setter	5/1/2020		\$33.45	\$15.68	\$49.13
Tile Setter	5/1/2021		\$34.23	\$15.90	\$50.13
Tile Setter	5/1/2019		\$32.66	\$15.47	\$48.13
Tile Setter	5/1/2017		\$31.03	\$15.10	\$46.13
Tile Setter	5/1/2018		\$31.85	\$15.28	\$47.13
Truckdriver class 1(see notes)	5/1/2019		\$36.12	\$0.00	\$36.12
Truckdriver class 1(see notes)	5/1/2018		\$35.32	\$0.00	\$35.32
Truckdriver class 1(see notes)	5/1/2017		\$34.47	\$0.00	\$34.47
Truckdriver class 2 (see notes)	5/1/2019		\$36.19	\$0.00	\$36.19
Truckdriver class 2 (see notes)	5/1/2018		\$35.39	\$0.00	\$35.39
Truckdriver class 2 (see notes)	5/1/2017		\$34.54	\$0.00	\$34.54
Truckdriver class 3 (see notes)	5/1/2019		\$36.68	\$0.00	\$36.68
Truckdriver class 3 (see notes)	5/1/2018		\$35.88	\$0.00	\$35.88
Truckdriver class 3 (see notes)	5/1/2017		\$35.03	\$0.00	\$35.03

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01782 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenters	5/1/2017		\$30.12	\$15.34	\$45.46
Cement Finishers	6/1/2016		\$32.43	\$11.35	\$43.78
Electric Lineman	1/1/2018		\$55.43	\$22.48	\$77.91
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2017		\$32.32	\$28.42	\$60.74
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2018		\$33.07	\$28.42	\$61.49
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2019		\$33.76	\$28.42	\$62.18
Laborers (Class 01 - See notes)	5/1/2019		\$21.61	\$17.29	\$38.90
Laborers (Class 01 - See notes)	5/1/2017		\$20.36	\$16.29	\$36.65
Laborers (Class 01 - See notes)	5/1/2016		\$19.81	\$15.79	\$35.60
Laborers (Class 01 - See notes)	5/1/2018		\$20.96	\$16.79	\$37.75
Laborers (Class 02 - See notes)	5/1/2019		\$28.23	\$17.29	\$45.52
Laborers (Class 02 - See notes)	5/1/2016		\$26.43	\$15.79	\$42.22
Laborers (Class 02 - See notes)	5/1/2018		\$27.58	\$16.79	\$44.37
Laborers (Class 02 - See notes)	5/1/2017		\$26.98	\$16.29	\$43.27
Laborers (Class 03 - See notes)	5/1/2019		\$25.22	\$17.29	\$42.51
Laborers (Class 03 - See notes)	5/1/2017		\$23.97	\$16.29	\$40.26
Laborers (Class 03 - See notes)	5/1/2016		\$23.42	\$15.79	\$39.21
Laborers (Class 03 - See notes)	5/1/2018		\$24.57	\$16.79	\$41.36
Laborers (Class 04 - See notes)	5/1/2019		\$25.57	\$17.29	\$42.86
Laborers (Class 04 - See notes)	5/1/2016		\$23.77	\$15.79	\$39.56
Laborers (Class 04 - See notes)	5/1/2018		\$24.92	\$16.79	\$41.71
Laborers (Class 04 - See notes)	5/1/2017		\$24.32	\$16.29	\$40.61
Laborers (Class 05 - See notes)	5/1/2019		\$26.24	\$17.29	\$43.53
Laborers (Class 05 - See notes)	5/1/2017		\$24.99	\$16.29	\$41.28
Laborers (Class 05 - See notes)	5/1/2016		\$24.44	\$15.79	\$40.23
Laborers (Class 05 - See notes)	5/1/2018		\$25.59	\$16.79	\$42.38
Laborers (Class 06 - See notes)	5/1/2017		\$24.41	\$16.29	\$40.70
Laborers (Class 06 - See notes)	5/1/2018		\$25.01	\$16.79	\$41.80
Laborers (Class 06 - See notes)	5/1/2019		\$25.66	\$17.29	\$42.95
Laborers (Class 06 - See notes)	5/1/2016		\$23.86	\$15.79	\$39.65
Laborers (Class 07 - See notes)	5/1/2016		\$24.15	\$15.79	\$39.94
Laborers (Class 07 - See notes)	5/1/2017		\$24.70	\$16.29	\$40.99
Laborers (Class 07 - See notes)	5/1/2019		\$25.95	\$17.29	\$43.24
Laborers (Class 07 - See notes)	5/1/2018		\$25.30	\$16.79	\$42.09
Laborers (Class 08 - See notes)	5/1/2016		\$24.63	\$15.79	\$40.42
Laborers (Class 08 - See notes)	5/1/2017		\$25.18	\$16.29	\$41.47
Laborers (Class 08 - See notes)	5/1/2019		\$26.43	\$17.29	\$43.72
Laborers (Class 08 - See notes)	5/1/2018		\$25.78	\$16.79	\$42.57
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2016		\$32.16	\$22.64	\$54.80
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2017		\$33.80	\$24.16	\$57.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2020		\$38.44	\$25.52	\$63.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2021		\$39.98	\$25.97	\$65.95

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 18-01782 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2019		\$36.90	\$25.06	\$61.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2018		\$35.35	\$24.61	\$59.96
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2017		\$36.05	\$24.82	\$60.87
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2018		\$37.60	\$25.27	\$62.87
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2021		\$42.24	\$26.64	\$68.88
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2020		\$40.69	\$26.19	\$66.88
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2019		\$39.14	\$25.73	\$64.87
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2018		\$35.07	\$24.52	\$59.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2020		\$38.16	\$25.44	\$63.60
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2021		\$39.70	\$25.89	\$65.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2017		\$33.52	\$24.07	\$57.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2019		\$36.61	\$24.98	\$61.59
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2020		\$40.41	\$26.10	\$66.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2021		\$41.95	\$26.56	\$68.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2019		\$38.87	\$25.64	\$64.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2017		\$35.78	\$24.72	\$60.50
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2018		\$37.32	\$25.19	\$62.51
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2020		\$35.23	\$24.57	\$59.80
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2021		\$36.78	\$25.03	\$61.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2019		\$33.69	\$24.11	\$57.80
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2017		\$30.60	\$23.21	\$53.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2018		\$32.15	\$23.66	\$55.81
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2020		\$33.65	\$24.11	\$57.76
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2021		\$35.64	\$24.69	\$60.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2019		\$32.55	\$23.78	\$56.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2017		\$29.47	\$22.88	\$52.35
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2018		\$31.01	\$23.32	\$54.33
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2020		\$33.65	\$24.11	\$57.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2021		\$35.20	\$24.56	\$59.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2019		\$32.11	\$23.65	\$55.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2017		\$29.02	\$22.74	\$51.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2018		\$30.56	\$23.20	\$53.76
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2020		\$32.78	\$23.84	\$56.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2021		\$34.31	\$24.31	\$58.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2019		\$31.22	\$23.40	\$54.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2017		\$28.14	\$22.49	\$50.63
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2018		\$29.68	\$22.93	\$52.61
Operators (Heavy, Class 07A - See Notes)	5/1/2020		\$46.28	\$29.27	\$75.55
Operators (Heavy, Class 07A - See Notes)	5/1/2021		\$48.14	\$29.83	\$77.97
Operators (Heavy, Class 07A - See Notes)	5/1/2019		\$44.43	\$28.73	\$73.16
Operators (Heavy, Class 07A - See Notes)	5/1/2017		\$40.73	\$27.63	\$68.36
Operators (Heavy, Class 07A - See Notes)	5/1/2018		\$42.58	\$28.18	\$70.76
Operators (Heavy, Class 07B - See Notes)	5/1/2020		\$45.94	\$29.17	\$75.11
Operators (Heavy, Class 07B - See Notes)	5/1/2021		\$47.79	\$29.71	\$77.50

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01782 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Heavy, Class 07B - See Notes)	5/1/2019		\$44.09	\$28.63	\$72.72
Operators (Heavy, Class 07B - See Notes)	5/1/2017		\$40.38	\$27.53	\$67.91
Operators (Heavy, Class 07B - See Notes)	5/1/2018		\$42.23	\$28.09	\$70.32
Operators (Highway, Class 01 - See Notes)	5/1/2016		\$32.16	\$22.64	\$54.80
Operators (Highway, Class 01 - See Notes)	5/1/2020		\$37.56	\$25.24	\$62.80
Operators (Highway, Class 01 - See Notes)	5/1/2021		\$39.10	\$25.70	\$64.80
Operators (Highway, Class 01 - See Notes)	5/1/2019		\$36.02	\$24.79	\$60.81
Operators (Highway, Class 01 - See Notes)	5/1/2017		\$32.93	\$23.87	\$56.80
Operators (Highway, Class 01 - See Notes)	5/1/2018		\$34.47	\$24.33	\$58.80
Operators (Highway, Class 01a - See Notes)	5/1/2020		\$39.81	\$25.92	\$65.73
Operators (Highway, Class 01a - See Notes)	5/1/2021		\$41.35	\$26.38	\$67.73
Operators (Highway, Class 01a - See Notes)	5/1/2019		\$38.27	\$25.46	\$63.73
Operators (Highway, Class 01a - See Notes)	5/1/2017		\$35.18	\$24.56	\$59.74
Operators (Highway, Class 01a - See Notes)	5/1/2018		\$36.72	\$25.01	\$61.73
Operators (Highway, Class 02 - See Notes)	5/1/2019		\$34.84	\$24.44	\$59.28
Operators (Highway, Class 02 - See Notes)	5/1/2020		\$36.38	\$24.90	\$61.28
Operators (Highway, Class 02 - See Notes)	5/1/2018		\$33.30	\$23.98	\$57.28
Operators (Highway, Class 02 - See Notes)	5/1/2021		\$37.93	\$25.35	\$63.28
Operators (Highway, Class 02 - See Notes)	5/1/2016		\$30.98	\$22.31	\$53.29
Operators (Highway, Class 02 - See Notes)	5/1/2017		\$31.75	\$23.53	\$55.28
Operators (Highway, Class 03 - See Notes)	5/1/2018		\$32.59	\$23.80	\$56.39
Operators (Highway, Class 03 - See Notes)	5/1/2019		\$34.14	\$24.25	\$58.39
Operators (Highway, Class 03 - See Notes)	5/1/2020		\$35.69	\$24.69	\$60.38
Operators (Highway, Class 03 - See Notes)	5/1/2016		\$30.28	\$22.10	\$52.38
Operators (Highway, Class 03 - See Notes)	5/1/2017		\$31.06	\$23.32	\$54.38
Operators (Highway, Class 03 - See Notes)	5/1/2021		\$37.23	\$25.16	\$62.39
Operators (Highway, Class 04 - See Notes)	5/1/2021		\$36.77	\$25.03	\$61.80
Operators (Highway, Class 04 - See Notes)	5/1/2020		\$35.23	\$24.57	\$59.80
Operators (Highway, Class 04 - See Notes)	5/1/2018		\$32.14	\$23.66	\$55.80
Operators (Highway, Class 04 - See Notes)	5/1/2017		\$30.60	\$23.20	\$53.80
Operators (Highway, Class 04 - See Notes)	5/1/2019		\$33.68	\$24.12	\$57.80
Operators (Highway, Class 04 - See Notes)	5/1/2016		\$29.82	\$21.98	\$51.80
Operators (Highway, Class 05 - See Notes)	5/1/2018		\$31.63	\$23.51	\$55.14
Operators (Highway, Class 05 - See Notes)	5/1/2017		\$30.08	\$23.06	\$53.14
Operators (Highway, Class 05 - See Notes)	5/1/2016		\$29.31	\$21.83	\$51.14
Operators (Highway, Class 05 - See Notes)	5/1/2021		\$36.26	\$24.87	\$61.13
Operators (Highway, Class 05 - See Notes)	5/1/2020		\$34.72	\$24.42	\$59.14
Operators (Highway, Class 05 - See Notes)	5/1/2019		\$33.18	\$23.97	\$57.15
Operators (Highway, Class 06 - See Notes)	5/1/2020		\$37.79	\$25.30	\$63.09
Operators (Highway, Class 06 - See Notes)	5/1/2021		\$39.33	\$25.78	\$65.11
Operators (Highway, Class 06 - See Notes)	5/1/2019		\$36.25	\$24.85	\$61.10
Operators (Highway, Class 06 - See Notes)	5/1/2016		\$32.40	\$22.70	\$55.10
Operators (Highway, Class 06 - See Notes)	5/1/2017		\$33.17	\$23.94	\$57.11
Operators (Highway, Class 06 - See Notes)	5/1/2018		\$34.71	\$24.39	\$59.10

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01782 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Highway, Class 06/A - See Notes)	5/1/2016		\$34.65	\$23.36	\$58.01
Operators (Highway, Class 06/A - See Notes)	5/1/2020		\$40.04	\$25.97	\$66.01
Operators (Highway, Class 06/A - See Notes)	5/1/2018		\$36.96	\$25.05	\$62.01
Operators (Highway, Class 06/A - See Notes)	5/1/2019		\$38.50	\$25.52	\$64.02
Operators (Highway, Class 06/A - See Notes)	5/1/2021		\$41.58	\$26.43	\$68.01
Operators (Highway, Class 06/A - See Notes)	5/1/2017		\$35.42	\$24.59	\$60.01
Operators (Highway, Class 07/A - See Notes)	5/1/2021		\$47.08	\$29.49	\$76.57
Operators (Highway, Class 07/A - See Notes)	5/1/2020		\$45.23	\$28.94	\$74.17
Operators (Highway, Class 07/A - See Notes)	5/1/2018		\$41.52	\$27.84	\$69.36
Operators (Highway, Class 07/A - See Notes)	5/1/2017		\$39.66	\$27.31	\$66.97
Operators (Highway, Class 07/A - See Notes)	5/1/2019		\$43.37	\$28.41	\$71.78
Operators (Highway, Class 07/A - See Notes)	5/1/2016		\$38.56	\$25.99	\$64.55
Operators (Highway, Class 07/B - See Notes)	5/1/2020		\$43.81	\$28.53	\$72.34
Operators (Highway, Class 07/B - See Notes)	5/1/2021		\$45.66	\$29.08	\$74.74
Operators (Highway, Class 07/B - See Notes)	5/1/2017		\$38.25	\$26.89	\$65.14
Operators (Highway, Class 07/B - See Notes)	5/1/2016		\$37.17	\$25.57	\$62.74
Operators (Highway, Class 07/B - See Notes)	5/1/2018		\$40.10	\$27.44	\$67.54
Operators (Highway, Class 07/B - See Notes)	5/1/2019		\$43.37	\$28.41	\$71.78
Pile Driver Divers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Piledrivers	1/1/2017		\$32.75	\$17.95	\$50.70
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2017		\$40.98	\$32.53	\$73.51
Truckdriver class 1(see notes)	5/1/2017		\$34.47	\$0.00	\$34.47
Truckdriver class 1(see notes)	5/1/2018		\$35.32	\$0.00	\$35.32
Truckdriver class 1(see notes)	5/1/2016		\$33.57	\$0.00	\$33.57
Truckdriver class 1(see notes)	5/1/2019		\$36.12	\$0.00	\$36.12
Truckdriver class 2 (see notes)	5/1/2017		\$34.54	\$0.00	\$34.54
Truckdriver class 2 (see notes)	5/1/2018		\$35.39	\$0.00	\$35.39
Truckdriver class 2 (see notes)	5/1/2016		\$33.64	\$0.00	\$33.64
Truckdriver class 2 (see notes)	5/1/2019		\$36.19	\$0.00	\$36.19
Truckdriver class 3 (see notes)	5/1/2019		\$36.68	\$0.00	\$36.68
Truckdriver class 3 (see notes)	5/1/2016		\$34.13	\$0.00	\$34.13
Truckdriver class 3 (see notes)	5/1/2017		\$35.03	\$0.00	\$35.03
Truckdriver class 3 (see notes)	5/1/2018		\$35.88	\$0.00	\$35.88

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	Electronic Surveillance / Detection System Maintenance Contract
Awarding Agency:	Delaware River Joint Toll Bridge Commission
Contract Award Date:	3/28/2018
Serial Number:	18-01783
Project Classification:	Building
Determination Date:	3/9/2018
Assigned Field Office:	Scranton
Field Office Phone Number:	(570)963-4577
Toll Free Phone Number:	(877)214-3962
Project County:	Monroe County

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 18-01783 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	7/1/2019		\$32.48	\$20.52	\$53.00
Asbestos & Insulation Workers	7/1/2018		\$32.48	\$19.52	\$52.00
Asbestos & Insulation Workers	7/1/2016		\$32.48	\$18.52	\$51.00
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2018		\$29.52	\$18.22	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2017		\$28.52	\$18.22	\$46.74
Boilermakers	3/1/2018		\$45.89	\$33.73	\$79.62
Boilermakers	1/1/2018		\$46.26	\$33.36	\$79.62
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2019		\$33.80	\$18.56	\$52.36
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2020		\$35.19	\$19.27	\$54.46
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2017		\$32.77	\$17.89	\$50.66
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2018		\$33.24	\$18.22	\$51.46
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	5/1/2018		\$29.28	\$17.48	\$46.76
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	5/1/2019		\$29.68	\$18.23	\$47.91
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	5/1/2020		\$30.13	\$18.98	\$49.11
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	5/1/2017		\$28.88	\$16.78	\$45.66
Cement Finishers	6/1/2016		\$32.43	\$11.35	\$43.78
Drywall Finisher	5/1/2017		\$27.81	\$18.17	\$45.98
Electricians	5/28/2018		\$55.93	\$31.60	\$87.53
Electricians	5/29/2017		\$54.62	\$30.86	\$85.48
Elevator Constructor	1/1/2016		\$45.04	\$30.28	\$75.32
Elevator Constructor	1/1/2018		\$47.48	\$33.00	\$80.48
Glazier	5/1/2018		\$35.69	\$18.35	\$54.04
Glazier	5/1/2017		\$34.69	\$18.05	\$52.74
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2017		\$32.32	\$28.42	\$60.74
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2018		\$33.07	\$28.42	\$61.49
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2019		\$33.76	\$28.42	\$62.18
Laborers (Class 01 - See notes)	5/1/2017		\$25.39	\$17.34	\$42.73
Laborers (Class 01 - See notes)	5/1/2018		\$25.39	\$18.44	\$43.83
Laborers (Class 01 - See notes)	5/1/2020		\$25.39	\$20.79	\$46.18
Laborers (Class 01 - See notes)	5/1/2019		\$25.39	\$19.59	\$44.98
Laborers (Class 02 - See notes)	5/1/2020		\$26.42	\$20.79	\$47.21
Laborers (Class 02 - See notes)	5/1/2017		\$26.42	\$17.34	\$43.76
Laborers (Class 02 - See notes)	5/1/2019		\$26.42	\$19.59	\$46.01
Laborers (Class 02 - See notes)	5/1/2018		\$26.42	\$18.44	\$44.86
Laborers (Class 03 - See notes)	5/1/2017		\$26.19	\$17.63	\$43.82
Laborers (Class 03 - See notes)	5/1/2018		\$26.19	\$18.73	\$44.92

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 18-01783 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 03 - See notes)	5/1/2020		\$26.74	\$21.08	\$47.82
Laborers (Class 03 - See notes)	5/1/2019		\$26.19	\$19.88	\$46.07
Laborers (Class 04 - See notes)	5/1/2019		\$26.19	\$19.88	\$46.07
Laborers (Class 04 - See notes)	5/1/2020		\$26.74	\$21.08	\$47.82
Laborers (Class 04 - See notes)	5/1/2018		\$26.19	\$18.73	\$44.92
Laborers (Class 04 - See notes)	5/1/2017		\$26.19	\$17.63	\$43.82
Laborers (Class 05 - See notes)	5/1/2017		\$28.19	\$17.63	\$45.82
Laborers (Class 05 - See notes)	5/1/2018		\$28.19	\$18.73	\$46.92
Laborers (Class 05 - See notes)	5/1/2020		\$27.99	\$21.08	\$49.07
Laborers (Class 05 - See notes)	5/1/2019		\$28.19	\$19.88	\$48.07
Laborers (Class 06 - See notes)	5/1/2019		\$26.74	\$19.59	\$46.33
Laborers (Class 06 - See notes)	5/1/2020		\$26.74	\$20.79	\$47.53
Laborers (Class 06 - See notes)	5/1/2017		\$26.74	\$17.34	\$44.08
Laborers (Class 06 - See notes)	5/1/2018		\$26.74	\$18.44	\$45.18
Marble Mason	5/1/2021		\$31.82	\$18.89	\$50.71
Marble Mason	5/1/2018		\$29.87	\$17.84	\$47.71
Marble Mason	5/1/2017		\$29.20	\$17.51	\$46.71
Marble Mason	5/1/2020		\$31.18	\$18.53	\$49.71
Marble Mason	5/1/2019		\$30.53	\$18.18	\$48.71
Millwright	5/1/2017		\$33.79	\$18.16	\$51.95
Operators (Building, Class 01 - See Notes)	5/1/2019		\$38.32	\$25.49	\$63.81
Operators (Building, Class 01 - See Notes)	5/1/2020		\$39.87	\$25.94	\$65.81
Operators (Building, Class 01 - See Notes)	5/1/2018		\$36.78	\$25.03	\$61.81
Operators (Building, Class 01 - See Notes)	5/1/2021		\$41.41	\$26.40	\$67.81
Operators (Building, Class 01 - See Notes)	5/1/2017		\$35.24	\$24.58	\$59.82
Operators (Building, Class 01A - See Notes)	5/1/2019		\$40.57	\$26.15	\$66.72
Operators (Building, Class 01A - See Notes)	5/1/2020		\$42.12	\$26.60	\$68.72
Operators (Building, Class 01A - See Notes)	5/1/2021		\$43.66	\$27.06	\$70.72
Operators (Building, Class 01A - See Notes)	5/1/2017		\$37.49	\$25.23	\$62.72
Operators (Building, Class 01A - See Notes)	5/1/2018		\$39.03	\$25.69	\$64.72
Operators (Building, Class 02 - See Notes)	5/1/2017		\$34.96	\$24.49	\$59.45
Operators (Building, Class 02 - See Notes)	5/1/2019		\$38.05	\$25.39	\$63.44
Operators (Building, Class 02 - See Notes)	5/1/2020		\$39.59	\$25.84	\$65.43
Operators (Building, Class 02 - See Notes)	5/1/2021		\$41.13	\$26.30	\$67.43
Operators (Building, Class 02 - See Notes)	5/1/2018		\$36.50	\$24.95	\$61.45
Operators (Building, Class 02A - See Notes)	5/1/2018		\$38.75	\$25.61	\$64.36
Operators (Building, Class 02A - See Notes)	5/1/2019		\$40.30	\$26.06	\$66.36
Operators (Building, Class 02A - See Notes)	5/1/2021		\$43.38	\$26.98	\$70.36
Operators (Building, Class 02A - See Notes)	5/1/2017		\$37.21	\$25.16	\$62.37
Operators (Building, Class 03 - See Notes)	5/1/2017		\$32.23	\$23.68	\$55.91
Operators (Building, Class 03 - See Notes)	5/1/2018		\$33.78	\$24.12	\$57.90
Operators (Building, Class 03 - See Notes)	5/1/2021		\$38.41	\$25.50	\$63.91
Operators (Building, Class 03 - See Notes)	5/1/2019		\$35.32	\$24.59	\$59.91
Operators (Building, Class 03 - See Notes)	5/1/2020		\$36.86	\$25.05	\$61.91

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01783 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building, Class 04 - See Notes)	5/1/2020		\$35.73	\$24.71	\$60.44
Operators (Building, Class 04 - See Notes)	5/1/2021		\$37.26	\$25.18	\$62.44
Operators (Building, Class 04 - See Notes)	5/1/2019		\$34.17	\$24.27	\$58.44
Operators (Building, Class 04 - See Notes)	5/1/2017		\$30.33	\$22.12	\$52.45
Operators (Building, Class 04 - See Notes)	5/1/2018		\$32.63	\$23.80	\$56.43
Operators (Building, Class 05 - See Notes)	5/1/2019		\$33.73	\$24.14	\$57.87
Operators (Building, Class 05 - See Notes)	5/1/2017		\$29.87	\$21.99	\$51.86
Operators (Building, Class 05 - See Notes)	5/1/2018		\$32.18	\$23.69	\$55.87
Operators (Building, Class 05 - See Notes)	5/1/2021		\$36.82	\$25.04	\$61.86
Operators (Building, Class 05 - See Notes)	5/1/2020		\$35.28	\$24.59	\$59.87
Operators (Building, Class 06 - See Notes)	5/1/2017		\$29.00	\$21.72	\$50.72
Operators (Building, Class 06 - See Notes)	5/1/2018		\$31.31	\$23.41	\$54.72
Operators (Building, Class 06 - See Notes)	5/1/2019		\$32.86	\$23.86	\$56.72
Operators (Building, Class 06 - See Notes)	5/1/2020		\$34.40	\$24.32	\$58.72
Operators (Building, Class 06 - See Notes)	5/1/2021		\$35.95	\$24.77	\$60.72
Operators (Building, Class 07A- See Notes)	5/1/2019		\$46.15	\$29.22	\$75.37
Operators (Building, Class 07A- See Notes)	5/1/2017		\$42.44	\$28.13	\$70.57
Operators (Building, Class 07A- See Notes)	5/1/2018		\$44.29	\$28.68	\$72.97
Operators (Building, Class 07A- See Notes)	5/1/2021		\$49.86	\$30.31	\$80.17
Operators (Building, Class 07A- See Notes)	5/1/2020		\$48.00	\$29.77	\$77.77
Operators (Building, Class 07B- See Notes)	5/1/2020		\$47.65	\$29.67	\$77.32
Operators (Building, Class 07B- See Notes)	5/1/2021		\$49.51	\$30.20	\$79.71
Operators (Building, Class 07B- See Notes)	5/1/2019		\$45.80	\$29.12	\$74.92
Operators (Building, Class 07B- See Notes)	5/1/2017		\$42.09	\$28.03	\$70.12
Operators (Building, Class 07B- See Notes)	5/1/2018		\$43.95	\$28.58	\$72.53
Painters Class 1 (see notes)	5/1/2017		\$27.25	\$18.17	\$45.42
Painters Class 2 (see notes)	5/1/2017		\$30.15	\$18.17	\$48.32
Painters Class 3 (see notes)	5/1/2017		\$36.25	\$18.17	\$54.42
Pile Driver Divers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Plasterers	6/1/2016		\$32.94	\$10.92	\$43.86
Plumbers and Steamfitters	6/1/2018		\$42.64	\$20.77	\$63.41
Plumbers and Steamfitters	6/1/2019		\$44.04	\$20.77	\$64.81
Plumbers and Steamfitters	6/1/2017		\$41.24	\$20.77	\$62.01
Roofers (Composition)	5/1/2017		\$36.15	\$30.22	\$66.37
Roofers (Shingle)	5/1/2016		\$25.70	\$19.17	\$44.87
Roofers (Slate & Tile)	5/1/2016		\$28.70	\$19.17	\$47.87
Sheet Metal Workers	5/1/2017		\$30.61	\$22.95	\$53.56
Sprinklerfitters	4/1/2018		\$38.80	\$22.74	\$61.54
Sprinklerfitters	4/1/2017		\$37.40	\$21.74	\$59.14
Terrazzo Finisher	5/1/2017		\$31.64	\$15.62	\$47.26
Terrazzo Finisher	5/1/2019		\$33.04	\$16.22	\$49.26
Terrazzo Finisher	5/1/2018		\$32.35	\$15.91	\$48.26

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01783 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Terrazzo Setter	5/1/2018		\$31.23	\$19.25	\$50.48
Terrazzo Setter	5/1/2017		\$30.63	\$18.85	\$49.48
Terrazzo Setter	5/1/2019		\$31.81	\$19.67	\$51.48
Tile & Marble Finisher	5/1/2018		\$27.05	\$15.04	\$42.09
Tile & Marble Finisher	5/1/2017		\$26.39	\$14.70	\$41.09
Tile & Marble Finisher	5/1/2021		\$28.90	\$16.19	\$45.09
Tile & Marble Finisher	5/1/2019		\$27.69	\$15.40	\$43.09
Tile & Marble Finisher	5/1/2020		\$28.31	\$15.78	\$44.09
Tile Setter	5/1/2019		\$30.53	\$18.18	\$48.71
Tile Setter	5/1/2020		\$31.18	\$18.53	\$49.71
Tile Setter	5/1/2017		\$29.20	\$17.51	\$46.71
Tile Setter	5/1/2018		\$29.87	\$17.84	\$47.71
Tile Setter	5/1/2021		\$31.82	\$18.89	\$50.71
Truckdriver class 1(see notes)	5/1/2019		\$36.12	\$0.00	\$36.12
Truckdriver class 1(see notes)	5/1/2018		\$35.32	\$0.00	\$35.32
Truckdriver class 1(see notes)	5/1/2017		\$34.47	\$0.00	\$34.47
Truckdriver class 2 (see notes)	5/1/2019		\$36.19	\$0.00	\$36.19
Truckdriver class 2 (see notes)	5/1/2018		\$35.39	\$0.00	\$35.39
Truckdriver class 2 (see notes)	5/1/2017		\$34.54	\$0.00	\$34.54
Truckdriver class 3 (see notes)	5/1/2019		\$36.68	\$0.00	\$36.68
Truckdriver class 3 (see notes)	5/1/2018		\$35.88	\$0.00	\$35.88
Truckdriver class 3 (see notes)	5/1/2017		\$35.03	\$0.00	\$35.03

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01783 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenters	5/1/2016		\$29.67	\$14.54	\$44.21
Carpenters	5/1/2017		\$30.12	\$15.34	\$45.46
Cement Finishers	6/1/2016		\$32.43	\$11.35	\$43.78
Electric Lineman	1/1/2018		\$55.43	\$22.48	\$77.91
Iron Workers	7/1/2016		\$29.42	\$28.78	\$58.20
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2019		\$33.76	\$28.42	\$62.18
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2018		\$33.07	\$28.42	\$61.49
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2017		\$32.32	\$28.42	\$60.74
Laborers (Class 01 - See notes)	5/1/2018		\$20.96	\$16.79	\$37.75
Laborers (Class 01 - See notes)	5/1/2019		\$21.61	\$17.29	\$38.90
Laborers (Class 01 - See notes)	5/1/2016		\$19.81	\$15.79	\$35.60
Laborers (Class 01 - See notes)	5/1/2017		\$20.36	\$16.29	\$36.65
Laborers (Class 02 - See notes)	5/1/2019		\$28.23	\$17.29	\$45.52
Laborers (Class 02 - See notes)	5/1/2018		\$27.58	\$16.79	\$44.37
Laborers (Class 02 - See notes)	5/1/2016		\$26.43	\$15.79	\$42.22
Laborers (Class 02 - See notes)	5/1/2017		\$26.98	\$16.29	\$43.27
Laborers (Class 03 - See notes)	5/1/2017		\$23.97	\$16.29	\$40.26
Laborers (Class 03 - See notes)	5/1/2019		\$25.22	\$17.29	\$42.51
Laborers (Class 03 - See notes)	5/1/2018		\$24.57	\$16.79	\$41.36
Laborers (Class 03 - See notes)	5/1/2016		\$23.42	\$15.79	\$39.21
Laborers (Class 04 - See notes)	5/1/2019		\$25.57	\$17.29	\$42.86
Laborers (Class 04 - See notes)	5/1/2017		\$24.32	\$16.29	\$40.61
Laborers (Class 04 - See notes)	5/1/2016		\$23.77	\$15.79	\$39.56
Laborers (Class 04 - See notes)	5/1/2018		\$24.92	\$16.79	\$41.71
Laborers (Class 05 - See notes)	5/1/2018		\$25.59	\$16.79	\$42.38
Laborers (Class 05 - See notes)	5/1/2017		\$24.99	\$16.29	\$41.28
Laborers (Class 05 - See notes)	5/1/2019		\$26.24	\$17.29	\$43.53
Laborers (Class 05 - See notes)	5/1/2016		\$24.44	\$15.79	\$40.23
Laborers (Class 06 - See notes)	5/1/2016		\$23.86	\$15.79	\$39.65
Laborers (Class 06 - See notes)	5/1/2017		\$24.41	\$16.29	\$40.70
Laborers (Class 06 - See notes)	5/1/2019		\$25.66	\$17.29	\$42.95
Laborers (Class 06 - See notes)	5/1/2018		\$25.01	\$16.79	\$41.80
Laborers (Class 07 - See notes)	5/1/2018		\$25.30	\$16.79	\$42.09
Laborers (Class 07 - See notes)	5/1/2017		\$24.70	\$16.29	\$40.99
Laborers (Class 07 - See notes)	5/1/2019		\$25.95	\$17.29	\$43.24
Laborers (Class 07 - See notes)	5/1/2016		\$24.15	\$15.79	\$39.94
Laborers (Class 08 - See notes)	5/1/2016		\$24.63	\$15.79	\$40.42
Laborers (Class 08 - See notes)	5/1/2018		\$25.78	\$16.79	\$42.57
Laborers (Class 08 - See notes)	5/1/2017		\$25.18	\$16.29	\$41.47
Laborers (Class 08 - See notes)	5/1/2019		\$26.43	\$17.29	\$43.72
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2019		\$36.90	\$25.06	\$61.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2020		\$38.44	\$25.52	\$63.96

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01783 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2021		\$39.98	\$25.97	\$65.95
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2017		\$33.80	\$24.16	\$57.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2016		\$32.16	\$22.64	\$54.80
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2018		\$35.35	\$24.61	\$59.96
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2017		\$36.05	\$24.82	\$60.87
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2020		\$40.69	\$26.19	\$66.88
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2021		\$42.24	\$26.64	\$68.88
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2018		\$37.60	\$25.27	\$62.87
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2019		\$39.14	\$25.73	\$64.87
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2017		\$33.52	\$24.07	\$57.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2020		\$38.16	\$25.44	\$63.60
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2021		\$39.70	\$25.89	\$65.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2018		\$35.07	\$24.52	\$59.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2019		\$36.61	\$24.98	\$61.59
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2020		\$40.41	\$26.10	\$66.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2021		\$41.95	\$26.56	\$68.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2019		\$38.87	\$25.64	\$64.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2017		\$35.78	\$24.72	\$60.50
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2018		\$37.32	\$25.19	\$62.51
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2020		\$35.23	\$24.57	\$59.80
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2021		\$36.78	\$25.03	\$61.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2019		\$33.69	\$24.11	\$57.80
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2017		\$30.60	\$23.21	\$53.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2018		\$32.15	\$23.66	\$55.81
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2020		\$33.65	\$24.11	\$57.76
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2021		\$35.64	\$24.69	\$60.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2019		\$32.55	\$23.78	\$56.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2017		\$29.47	\$22.88	\$52.35
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2018		\$31.01	\$23.32	\$54.33
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2020		\$33.65	\$24.11	\$57.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2021		\$35.20	\$24.56	\$59.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2019		\$32.11	\$23.65	\$55.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2017		\$29.02	\$22.74	\$51.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2018		\$30.56	\$23.20	\$53.76
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2020		\$32.78	\$23.84	\$56.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2021		\$34.31	\$24.31	\$58.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2019		\$31.22	\$23.40	\$54.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2017		\$28.14	\$22.49	\$50.63
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2018		\$29.68	\$22.93	\$52.61
Operators (Heavy, Class 07A - See Notes)	5/1/2020		\$46.28	\$29.27	\$75.55
Operators (Heavy, Class 07A - See Notes)	5/1/2021		\$48.14	\$29.83	\$77.97
Operators (Heavy, Class 07A - See Notes)	5/1/2019		\$44.43	\$28.73	\$73.16
Operators (Heavy, Class 07A - See Notes)	5/1/2017		\$40.73	\$27.63	\$68.36
Operators (Heavy, Class 07A - See Notes)	5/1/2018		\$42.58	\$28.18	\$70.76

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01783 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Heavy, Class 07B - See Notes)	5/1/2020		\$45.94	\$29.17	\$75.11
Operators (Heavy, Class 07B - See Notes)	5/1/2021		\$47.79	\$29.71	\$77.50
Operators (Heavy, Class 07B - See Notes)	5/1/2019		\$44.09	\$28.63	\$72.72
Operators (Heavy, Class 07B - See Notes)	5/1/2017		\$40.38	\$27.53	\$67.91
Operators (Heavy, Class 07B - See Notes)	5/1/2018		\$42.23	\$28.09	\$70.32
Operators (Highway, Class 01 - See Notes)	5/1/2016		\$32.16	\$22.64	\$54.80
Operators (Highway, Class 01 - See Notes)	5/1/2020		\$37.56	\$25.24	\$62.80
Operators (Highway, Class 01 - See Notes)	5/1/2021		\$39.10	\$25.70	\$64.80
Operators (Highway, Class 01 - See Notes)	5/1/2019		\$36.02	\$24.79	\$60.81
Operators (Highway, Class 01 - See Notes)	5/1/2017		\$32.93	\$23.87	\$56.80
Operators (Highway, Class 01 - See Notes)	5/1/2018		\$34.47	\$24.33	\$58.80
Operators (Highway, Class 01a - See Notes)	5/1/2020		\$39.81	\$25.92	\$65.73
Operators (Highway, Class 01a - See Notes)	5/1/2021		\$41.35	\$26.38	\$67.73
Operators (Highway, Class 01a - See Notes)	5/1/2019		\$38.27	\$25.46	\$63.73
Operators (Highway, Class 01a - See Notes)	5/1/2017		\$35.18	\$24.56	\$59.74
Operators (Highway, Class 01a - See Notes)	5/1/2018		\$36.72	\$25.01	\$61.73
Operators (Highway, Class 02 - See Notes)	5/1/2019		\$34.84	\$24.44	\$59.28
Operators (Highway, Class 02 - See Notes)	5/1/2020		\$36.38	\$24.90	\$61.28
Operators (Highway, Class 02 - See Notes)	5/1/2018		\$33.30	\$23.98	\$57.28
Operators (Highway, Class 02 - See Notes)	5/1/2021		\$37.93	\$25.35	\$63.28
Operators (Highway, Class 02 - See Notes)	5/1/2016		\$30.98	\$22.31	\$53.29
Operators (Highway, Class 02 - See Notes)	5/1/2017		\$31.75	\$23.53	\$55.28
Operators (Highway, Class 03 - See Notes)	5/1/2018		\$32.59	\$23.80	\$56.39
Operators (Highway, Class 03 - See Notes)	5/1/2019		\$34.14	\$24.25	\$58.39
Operators (Highway, Class 03 - See Notes)	5/1/2020		\$35.69	\$24.69	\$60.38
Operators (Highway, Class 03 - See Notes)	5/1/2016		\$30.28	\$22.10	\$52.38
Operators (Highway, Class 03 - See Notes)	5/1/2017		\$31.06	\$23.32	\$54.38
Operators (Highway, Class 03 - See Notes)	5/1/2021		\$37.23	\$25.16	\$62.39
Operators (Highway, Class 04 - See Notes)	5/1/2021		\$36.77	\$25.03	\$61.80
Operators (Highway, Class 04 - See Notes)	5/1/2020		\$35.23	\$24.57	\$59.80
Operators (Highway, Class 04 - See Notes)	5/1/2018		\$32.14	\$23.66	\$55.80
Operators (Highway, Class 04 - See Notes)	5/1/2017		\$30.60	\$23.20	\$53.80
Operators (Highway, Class 04 - See Notes)	5/1/2019		\$33.68	\$24.12	\$57.80
Operators (Highway, Class 04 - See Notes)	5/1/2016		\$29.82	\$21.98	\$51.80
Operators (Highway, Class 05 - See Notes)	5/1/2018		\$31.63	\$23.51	\$55.14
Operators (Highway, Class 05 - See Notes)	5/1/2016		\$29.31	\$21.83	\$51.14
Operators (Highway, Class 05 - See Notes)	5/1/2017		\$30.08	\$23.06	\$53.14
Operators (Highway, Class 05 - See Notes)	5/1/2020		\$34.72	\$24.42	\$59.14
Operators (Highway, Class 05 - See Notes)	5/1/2021		\$36.26	\$24.87	\$61.13
Operators (Highway, Class 05 - See Notes)	5/1/2019		\$33.18	\$23.97	\$57.15
Operators (Highway, Class 06 - See Notes)	5/1/2020		\$37.79	\$25.30	\$63.09
Operators (Highway, Class 06 - See Notes)	5/1/2021		\$39.33	\$25.78	\$65.11
Operators (Highway, Class 06 - See Notes)	5/1/2019		\$36.25	\$24.85	\$61.10
Operators (Highway, Class 06 - See Notes)	5/1/2016		\$32.40	\$22.70	\$55.10

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01783 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Highway, Class 06 - See Notes)	5/1/2017		\$33.17	\$23.94	\$57.11
Operators (Highway, Class 06 - See Notes)	5/1/2018		\$34.71	\$24.39	\$59.10
Operators (Highway, Class 06/A - See Notes)	5/1/2016		\$34.65	\$23.36	\$58.01
Operators (Highway, Class 06/A - See Notes)	5/1/2020		\$40.04	\$25.97	\$66.01
Operators (Highway, Class 06/A - See Notes)	5/1/2018		\$36.96	\$25.05	\$62.01
Operators (Highway, Class 06/A - See Notes)	5/1/2019		\$38.50	\$25.52	\$64.02
Operators (Highway, Class 06/A - See Notes)	5/1/2021		\$41.58	\$26.43	\$68.01
Operators (Highway, Class 06/A - See Notes)	5/1/2017		\$35.42	\$24.59	\$60.01
Operators (Highway, Class 07/A - See Notes)	5/1/2021		\$47.08	\$29.49	\$76.57
Operators (Highway, Class 07/A - See Notes)	5/1/2020		\$45.23	\$28.94	\$74.17
Operators (Highway, Class 07/A - See Notes)	5/1/2018		\$41.52	\$27.84	\$69.36
Operators (Highway, Class 07/A - See Notes)	5/1/2017		\$39.66	\$27.31	\$66.97
Operators (Highway, Class 07/A - See Notes)	5/1/2019		\$43.37	\$28.41	\$71.78
Operators (Highway, Class 07/A - See Notes)	5/1/2016		\$38.56	\$25.99	\$64.55
Operators (Highway, Class 07/B - See Notes)	5/1/2020		\$43.81	\$28.53	\$72.34
Operators (Highway, Class 07/B - See Notes)	5/1/2021		\$45.66	\$29.08	\$74.74
Operators (Highway, Class 07/B - See Notes)	5/1/2017		\$38.25	\$26.89	\$65.14
Operators (Highway, Class 07/B - See Notes)	5/1/2016		\$37.17	\$25.57	\$62.74
Operators (Highway, Class 07/B - See Notes)	5/1/2018		\$40.10	\$27.44	\$67.54
Operators (Highway, Class 07/B - See Notes)	5/1/2019		\$43.37	\$28.41	\$71.78
Pile Driver Divers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Piledrivers	1/1/2017		\$32.75	\$17.95	\$50.70
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2017		\$40.98	\$32.53	\$73.51
Truckdriver class 1(see notes)	5/1/2017		\$34.47	\$0.00	\$34.47
Truckdriver class 1(see notes)	5/1/2018		\$35.32	\$0.00	\$35.32
Truckdriver class 1(see notes)	5/1/2016		\$33.57	\$0.00	\$33.57
Truckdriver class 1(see notes)	5/1/2019		\$36.12	\$0.00	\$36.12
Truckdriver class 2 (see notes)	5/1/2017		\$34.54	\$0.00	\$34.54
Truckdriver class 2 (see notes)	5/1/2018		\$35.39	\$0.00	\$35.39
Truckdriver class 2 (see notes)	5/1/2016		\$33.64	\$0.00	\$33.64
Truckdriver class 2 (see notes)	5/1/2019		\$36.19	\$0.00	\$36.19
Truckdriver class 3 (see notes)	5/1/2019		\$36.68	\$0.00	\$36.68
Truckdriver class 3 (see notes)	5/1/2016		\$34.13	\$0.00	\$34.13
Truckdriver class 3 (see notes)	5/1/2017		\$35.03	\$0.00	\$35.03
Truckdriver class 3 (see notes)	5/1/2018		\$35.88	\$0.00	\$35.88

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	Electronic Surveillance / Detection System Maintenance Contract
Awarding Agency:	Delaware River Joint Toll Bridge Commission
Contract Award Date:	3/28/2018
Serial Number:	18-01784
Project Classification:	Building
Determination Date:	3/9/2018
Assigned Field Office:	Scranton
Field Office Phone Number:	(570)963-4577
Toll Free Phone Number:	(877)214-3962
Project County:	Northampton County

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	6/26/2017		\$32.00	\$26.51	\$58.51
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2018		\$29.52	\$18.22	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2017		\$28.52	\$18.22	\$46.74
Boilermakers	3/1/2018		\$45.89	\$33.73	\$79.62
Boilermakers	1/1/2018		\$46.26	\$33.36	\$79.62
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2019		\$33.80	\$18.56	\$52.36
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2020		\$35.19	\$19.27	\$54.46
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2017		\$32.77	\$17.89	\$50.66
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2018		\$33.24	\$18.22	\$51.46
Carpenter - Chief of Party (Surveying & Layout)	5/1/2018		\$37.33	\$25.54	\$62.87
Carpenter - Chief of Party (Surveying & Layout)	5/1/2019		\$38.76	\$25.54	\$64.30
Carpenter - Chief of Party (Surveying & Layout)	5/1/2017		\$36.01	\$25.54	\$61.55
Carpenter - Instrument Person (Surveying & Layout)	5/1/2018		\$33.94	\$25.54	\$59.48
Carpenter - Instrument Person (Surveying & Layout)	5/1/2019		\$35.24	\$25.54	\$60.78
Carpenter - Instrument Person (Surveying & Layout)	5/1/2017		\$32.74	\$25.54	\$58.28
Carpenter - Rodman (Surveying & Layout)	5/1/2017		\$26.19	\$20.35	\$46.54
Carpenter - Rodman (Surveying & Layout)	5/1/2018		\$27.15	\$20.35	\$47.50
Carpenter - Rodman (Surveying & Layout)	5/1/2019		\$28.19	\$20.35	\$48.54
Carpenters	5/1/2018		\$33.94	\$25.54	\$59.48
Carpenters	5/1/2017		\$32.74	\$25.54	\$58.28
Carpenters	5/1/2019		\$35.24	\$25.54	\$60.78
Cement Masons	5/1/2015		\$27.80	\$21.48	\$49.28
DockBuilder/Pile Drivers Divers(Building, Heavy & Highway)	11/1/2017		\$52.14	\$33.22	\$85.36
DockBuilder/Pile Drivers Divers(Building, Heavy & Highway)	5/1/2018		\$53.64	\$33.22	\$86.86
Dockbuilder/Piledriver (Building, Heavy, Highway)	11/1/2017		\$43.45	\$33.22	\$76.67
Dockbuilder/Piledriver (Building, Heavy, Highway)	5/1/2018		\$44.70	\$33.22	\$77.92
Drywall Finisher	5/1/2017		\$27.81	\$18.17	\$45.98
Electric Lineman	5/28/2019		\$46.32	\$25.97	\$72.29
Electric Lineman	5/28/2018		\$45.25	\$24.94	\$70.19
Electricians & Telecommunications Installation Technician	5/29/2017		\$54.62	\$30.86	\$85.48
Electricians & Telecommunications Installation Technician	5/28/2018		\$55.93	\$31.60	\$87.53
Elevator Constructor	1/1/2018		\$47.48	\$33.00	\$80.48
Elevator Constructor	1/1/2016		\$45.04	\$30.28	\$75.32
Floor Layer	5/1/2017		\$32.72	\$26.31	\$59.03
Glazier	5/1/2018		\$35.69	\$18.35	\$54.04
Glazier	5/1/2017		\$34.69	\$18.05	\$52.74
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2018		\$32.53	\$28.42	\$60.95

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2019		\$33.76	\$28.42	\$62.18
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2017		\$31.33	\$28.42	\$59.75
Laborers (Class 01 - See notes)	5/1/2017		\$25.39	\$17.34	\$42.73
Laborers (Class 01 - See notes)	5/1/2020		\$25.39	\$20.79	\$46.18
Laborers (Class 01 - See notes)	5/1/2018		\$25.39	\$18.44	\$43.83
Laborers (Class 01 - See notes)	5/1/2019		\$25.39	\$19.59	\$44.98
Laborers (Class 02 - See notes)	5/1/2017		\$26.42	\$17.34	\$43.76
Laborers (Class 02 - See notes)	5/1/2019		\$26.42	\$19.59	\$46.01
Laborers (Class 02 - See notes)	5/1/2020		\$26.42	\$20.79	\$47.21
Laborers (Class 02 - See notes)	5/1/2018		\$26.42	\$18.44	\$44.86
Laborers (Class 03 - See notes)	5/1/2017		\$26.19	\$17.63	\$43.82
Laborers (Class 03 - See notes)	5/1/2018		\$26.19	\$18.73	\$44.92
Laborers (Class 03 - See notes)	5/1/2019		\$26.19	\$19.88	\$46.07
Laborers (Class 03 - See notes)	5/1/2020		\$26.74	\$21.08	\$47.82
Laborers (Class 04 - See notes)	5/1/2019		\$26.19	\$19.88	\$46.07
Laborers (Class 04 - See notes)	5/1/2018		\$26.19	\$18.73	\$44.92
Laborers (Class 04 - See notes)	5/1/2017		\$26.19	\$17.63	\$43.82
Laborers (Class 04 - See notes)	5/1/2020		\$26.74	\$21.08	\$47.82
Laborers (Class 05 - See notes)	5/1/2017		\$28.19	\$17.63	\$45.82
Laborers (Class 05 - See notes)	5/1/2018		\$28.19	\$18.73	\$46.92
Laborers (Class 05 - See notes)	5/1/2020		\$27.99	\$21.08	\$49.07
Laborers (Class 05 - See notes)	5/1/2019		\$28.19	\$19.88	\$48.07
Laborers (Class 06 - See notes)	5/1/2019		\$26.74	\$19.59	\$46.33
Laborers (Class 06 - See notes)	5/1/2018		\$26.74	\$18.44	\$45.18
Laborers (Class 06 - See notes)	5/1/2020		\$26.74	\$20.79	\$47.53
Laborers (Class 06 - See notes)	5/1/2017		\$26.74	\$17.34	\$44.08
Marble Mason	5/1/2018		\$29.87	\$17.84	\$47.71
Marble Mason	5/1/2019		\$30.53	\$18.18	\$48.71
Marble Mason	5/1/2021		\$31.82	\$18.89	\$50.71
Marble Mason	5/1/2020		\$31.18	\$18.53	\$49.71
Marble Mason	5/1/2017		\$29.20	\$17.51	\$46.71
Millwright	7/1/2017		\$39.19	\$30.24	\$69.43
Operators (Building, Class 01 - See Notes)	5/1/2020		\$39.87	\$25.94	\$65.81
Operators (Building, Class 01 - See Notes)	5/1/2019		\$38.32	\$25.49	\$63.81
Operators (Building, Class 01 - See Notes)	5/1/2018		\$36.78	\$25.03	\$61.81
Operators (Building, Class 01 - See Notes)	5/1/2021		\$41.41	\$26.40	\$67.81
Operators (Building, Class 01 - See Notes)	5/1/2017		\$35.24	\$24.58	\$59.82
Operators (Building, Class 01A - See Notes)	5/1/2018		\$39.03	\$25.69	\$64.72
Operators (Building, Class 01A - See Notes)	5/1/2021		\$43.66	\$27.06	\$70.72
Operators (Building, Class 01A - See Notes)	5/1/2017		\$37.49	\$25.23	\$62.72
Operators (Building, Class 01A - See Notes)	5/1/2020		\$42.12	\$26.60	\$68.72
Operators (Building, Class 01A - See Notes)	5/1/2019		\$40.57	\$26.15	\$66.72
Operators (Building, Class 02 - See Notes)	5/1/2020		\$39.59	\$25.84	\$65.43

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building, Class 02 - See Notes)	5/1/2017		\$34.96	\$24.49	\$59.45
Operators (Building, Class 02 - See Notes)	5/1/2018		\$36.50	\$24.95	\$61.45
Operators (Building, Class 02 - See Notes)	5/1/2021		\$41.13	\$26.30	\$67.43
Operators (Building, Class 02 - See Notes)	5/1/2019		\$38.05	\$25.39	\$63.44
Operators (Building, Class 02A - See Notes)	5/1/2019		\$40.30	\$26.06	\$66.36
Operators (Building, Class 02A - See Notes)	5/1/2021		\$43.38	\$26.98	\$70.36
Operators (Building, Class 02A - See Notes)	5/1/2018		\$38.75	\$25.61	\$64.36
Operators (Building, Class 02A - See Notes)	5/1/2017		\$37.21	\$25.16	\$62.37
Operators (Building, Class 03 - See Notes)	5/1/2017		\$32.23	\$23.68	\$55.91
Operators (Building, Class 03 - See Notes)	5/1/2019		\$35.32	\$24.59	\$59.91
Operators (Building, Class 03 - See Notes)	5/1/2020		\$36.86	\$25.05	\$61.91
Operators (Building, Class 03 - See Notes)	5/1/2021		\$38.41	\$25.50	\$63.91
Operators (Building, Class 03 - See Notes)	5/1/2018		\$33.78	\$24.12	\$57.90
Operators (Building, Class 04 - See Notes)	5/1/2019		\$34.17	\$24.27	\$58.44
Operators (Building, Class 04 - See Notes)	5/1/2018		\$32.63	\$23.80	\$56.43
Operators (Building, Class 04 - See Notes)	5/1/2017		\$30.33	\$22.12	\$52.45
Operators (Building, Class 04 - See Notes)	5/1/2021		\$37.26	\$25.18	\$62.44
Operators (Building, Class 04 - See Notes)	5/1/2020		\$35.73	\$24.71	\$60.44
Operators (Building, Class 05 - See Notes)	5/1/2017		\$29.87	\$21.99	\$51.86
Operators (Building, Class 05 - See Notes)	5/1/2018		\$32.18	\$23.69	\$55.87
Operators (Building, Class 05 - See Notes)	5/1/2019		\$33.73	\$24.14	\$57.87
Operators (Building, Class 05 - See Notes)	5/1/2020		\$35.28	\$24.59	\$59.87
Operators (Building, Class 05 - See Notes)	5/1/2021		\$36.82	\$25.04	\$61.86
Operators (Building, Class 06 - See Notes)	5/1/2018		\$31.31	\$23.41	\$54.72
Operators (Building, Class 06 - See Notes)	5/1/2021		\$35.95	\$24.77	\$60.72
Operators (Building, Class 06 - See Notes)	5/1/2019		\$32.86	\$23.86	\$56.72
Operators (Building, Class 06 - See Notes)	5/1/2020		\$34.40	\$24.32	\$58.72
Operators (Building, Class 06 - See Notes)	5/1/2017		\$29.00	\$21.72	\$50.72
Operators (Building, Class 07A- See Notes)	5/1/2021		\$49.86	\$30.31	\$80.17
Operators (Building, Class 07A- See Notes)	5/1/2018		\$44.29	\$28.68	\$72.97
Operators (Building, Class 07A- See Notes)	5/1/2020		\$48.00	\$29.77	\$77.77
Operators (Building, Class 07A- See Notes)	5/1/2017		\$42.44	\$28.13	\$70.57
Operators (Building, Class 07A- See Notes)	5/1/2019		\$46.15	\$29.22	\$75.37
Operators (Building, Class 07B- See Notes)	5/1/2021		\$49.51	\$30.20	\$79.71
Operators (Building, Class 07B- See Notes)	5/1/2019		\$45.80	\$29.12	\$74.92
Operators (Building, Class 07B- See Notes)	5/1/2018		\$43.95	\$28.58	\$72.53
Operators (Building, Class 07B- See Notes)	5/1/2020		\$47.65	\$29.67	\$77.32
Operators (Building, Class 07B- See Notes)	5/1/2017		\$42.09	\$28.03	\$70.12
Painters Class 1 (see notes)	5/1/2017		\$27.25	\$18.17	\$45.42
Painters Class 2 (see notes)	5/1/2017		\$30.15	\$18.17	\$48.32
Painters Class 3 (see notes)	5/1/2017		\$36.25	\$18.17	\$54.42
Plasterers	5/1/2015		\$28.93	\$20.51	\$49.44
Plumbers	5/1/2017		\$44.39	\$30.60	\$74.99
Roofers (Composition)	5/1/2016		\$35.15	\$29.19	\$64.34

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Roofers (Shingle)	5/1/2016		\$25.70	\$19.17	\$44.87
Roofers (Slate & Tile)	5/1/2016		\$28.70	\$19.17	\$47.87
Sheet Metal Workers	6/1/2017		\$33.98	\$35.40	\$69.38
Sprinklerfitters	4/1/2017		\$37.40	\$21.74	\$59.14
Sprinklerfitters	4/1/2018		\$38.80	\$22.74	\$61.54
Steamfitters	5/1/2017		\$46.99	\$32.67	\$79.66
Terrazzo Finisher	5/1/2019		\$33.04	\$16.22	\$49.26
Terrazzo Finisher	5/1/2017		\$31.64	\$15.62	\$47.26
Terrazzo Finisher	5/1/2018		\$32.35	\$15.91	\$48.26
Terrazzo Setter	5/1/2019		\$31.81	\$19.67	\$51.48
Terrazzo Setter	5/1/2018		\$31.23	\$19.25	\$50.48
Terrazzo Setter	5/1/2016		\$30.00	\$18.48	\$48.48
Terrazzo Setter	5/1/2017		\$30.63	\$18.85	\$49.48
Tile & Marble Finisher	5/1/2021		\$28.90	\$16.19	\$45.09
Tile & Marble Finisher	5/1/2017		\$26.39	\$14.70	\$41.09
Tile & Marble Finisher	5/1/2020		\$28.31	\$15.78	\$44.09
Tile & Marble Finisher	5/1/2018		\$27.05	\$15.04	\$42.09
Tile & Marble Finisher	5/1/2019		\$27.69	\$15.40	\$43.09
Tile Setter	5/1/2019		\$30.53	\$18.18	\$48.71
Tile Setter	5/1/2021		\$31.82	\$18.89	\$50.71
Tile Setter	5/1/2020		\$31.18	\$18.53	\$49.71
Tile Setter	5/1/2017		\$29.20	\$17.51	\$46.71
Tile Setter	5/1/2018		\$29.87	\$17.84	\$47.71
Truckdriver class 1(see notes)	5/1/2017		\$34.47	\$0.00	\$34.47
Truckdriver class 1(see notes)	5/1/2019		\$36.12	\$0.00	\$36.12
Truckdriver class 1(see notes)	5/1/2018		\$35.32	\$0.00	\$35.32
Truckdriver class 2 (see notes)	5/1/2017		\$34.54	\$0.00	\$34.54
Truckdriver class 2 (see notes)	5/1/2019		\$36.19	\$0.00	\$36.19
Truckdriver class 2 (see notes)	5/1/2018		\$35.39	\$0.00	\$35.39
Truckdriver class 3 (see notes)	5/1/2018		\$35.88	\$0.00	\$35.88
Truckdriver class 3 (see notes)	5/1/2017		\$35.03	\$0.00	\$35.03
Truckdriver class 3 (see notes)	5/1/2019		\$36.68	\$0.00	\$36.68

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter - Chief of Party (Surveying & Layout)	5/1/2018		\$37.39	\$25.54	\$62.93
Carpenter - Chief of Party (Surveying & Layout)	5/1/2019		\$38.82	\$25.54	\$64.36
Carpenter - Chief of Party (Surveying & Layout)	5/1/2016		\$35.63	\$24.79	\$60.42
Carpenter - Chief of Party (Surveying & Layout)	5/1/2017		\$36.07	\$25.54	\$61.61
Carpenter - Instrument Person (Surveying & Layout)	5/1/2016		\$32.39	\$24.79	\$57.18
Carpenter - Instrument Person (Surveying & Layout)	5/1/2019		\$35.29	\$25.54	\$60.83
Carpenter - Instrument Person (Surveying & Layout)	5/1/2018		\$33.99	\$25.54	\$59.53
Carpenter - Instrument Person (Surveying & Layout)	5/1/2017		\$32.79	\$25.54	\$58.33
Carpenter - Rodman (Surveying & Layout)	5/1/2018		\$27.19	\$20.35	\$47.54
Carpenter - Rodman (Surveying & Layout)	5/1/2019		\$28.23	\$20.35	\$48.58
Carpenter - Rodman (Surveying & Layout)	5/1/2015		\$23.39	\$23.69	\$47.08
Carpenter - Rodman (Surveying & Layout)	5/1/2017		\$26.23	\$20.35	\$46.58
Carpenters	5/1/2019		\$35.29	\$25.54	\$60.83
Carpenters	5/1/2018		\$33.99	\$25.54	\$59.53
Carpenters	5/1/2017		\$32.79	\$25.54	\$58.33
Electric Lineman	5/27/2019		\$46.32	\$25.97	\$72.29
Electric Lineman	5/28/2018		\$45.25	\$24.94	\$70.19
Electric Lineman	5/29/2017		\$44.22	\$23.94	\$68.16
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2019		\$33.76	\$28.42	\$62.18
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2018		\$32.53	\$28.42	\$60.95
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2017		\$31.33	\$28.42	\$59.75
Laborers (Class 01 - See notes)	5/1/2018		\$20.96	\$16.79	\$37.75
Laborers (Class 01 - See notes)	5/1/2019		\$21.61	\$17.29	\$38.90
Laborers (Class 01 - See notes)	5/1/2016		\$19.81	\$15.79	\$35.60
Laborers (Class 01 - See notes)	5/1/2017		\$20.36	\$16.29	\$36.65
Laborers (Class 02 - See notes)	5/1/2018		\$27.58	\$16.79	\$44.37
Laborers (Class 02 - See notes)	5/1/2019		\$28.23	\$17.29	\$45.52
Laborers (Class 02 - See notes)	5/1/2016		\$26.43	\$15.79	\$42.22
Laborers (Class 02 - See notes)	5/1/2017		\$26.98	\$16.29	\$43.27
Laborers (Class 03 - See notes)	5/1/2018		\$24.57	\$16.79	\$41.36
Laborers (Class 03 - See notes)	5/1/2019		\$25.22	\$17.29	\$42.51
Laborers (Class 03 - See notes)	5/1/2016		\$23.42	\$15.79	\$39.21
Laborers (Class 03 - See notes)	5/1/2017		\$23.97	\$16.29	\$40.26
Laborers (Class 04 - See notes)	5/1/2018		\$24.92	\$16.79	\$41.71
Laborers (Class 04 - See notes)	5/1/2019		\$25.57	\$17.29	\$42.86
Laborers (Class 04 - See notes)	5/1/2016		\$23.77	\$15.79	\$39.56
Laborers (Class 04 - See notes)	5/1/2017		\$24.32	\$16.29	\$40.61
Laborers (Class 05 - See notes)	5/1/2018		\$25.59	\$16.79	\$42.38
Laborers (Class 05 - See notes)	5/1/2019		\$26.24	\$17.29	\$43.53
Laborers (Class 05 - See notes)	5/1/2016		\$24.44	\$15.79	\$40.23
Laborers (Class 05 - See notes)	5/1/2017		\$24.99	\$16.29	\$41.28
Laborers (Class 06 - See notes)	5/1/2018		\$25.01	\$16.79	\$41.80

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 06 - See notes)	5/1/2019		\$25.66	\$17.29	\$42.95
Laborers (Class 06 - See notes)	5/1/2016		\$23.86	\$15.79	\$39.65
Laborers (Class 06 - See notes)	5/1/2017		\$24.41	\$16.29	\$40.70
Laborers (Class 07 - See notes)	5/1/2018		\$25.30	\$16.79	\$42.09
Laborers (Class 07 - See notes)	5/1/2019		\$25.95	\$17.29	\$43.24
Laborers (Class 07 - See notes)	5/1/2016		\$24.15	\$15.79	\$39.94
Laborers (Class 07 - See notes)	5/1/2017		\$24.70	\$16.29	\$40.99
Laborers (Class 08 - See notes)	5/1/2017		\$25.18	\$16.29	\$41.47
Laborers (Class 08 - See notes)	5/1/2018		\$25.78	\$16.79	\$42.57
Laborers (Class 08 - See notes)	5/1/2016		\$24.63	\$15.79	\$40.42
Laborers (Class 08 - See notes)	5/1/2019		\$26.43	\$17.29	\$43.72
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2018		\$35.35	\$24.61	\$59.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2020		\$38.44	\$25.52	\$63.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2016		\$32.16	\$22.64	\$54.80
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2017		\$33.80	\$24.16	\$57.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2019		\$36.90	\$25.06	\$61.96
Operators (Building/Heavy, Class 01 - See Notes)	5/1/2021		\$39.98	\$25.97	\$65.95
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2020		\$40.69	\$26.19	\$66.88
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2018		\$37.60	\$25.27	\$62.87
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2021		\$42.24	\$26.64	\$68.88
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2017		\$36.05	\$24.82	\$60.87
Operators (Building/Heavy, Class 01a - See Notes)	5/1/2019		\$39.14	\$25.73	\$64.87
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2018		\$35.07	\$24.52	\$59.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2017		\$33.52	\$24.07	\$57.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2019		\$36.61	\$24.98	\$61.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2021		\$39.70	\$25.89	\$65.59
Operators (Building/Heavy, Class 02 - See Notes)	5/1/2020		\$38.16	\$25.44	\$63.60
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2017		\$35.78	\$24.72	\$60.50
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2018		\$37.32	\$25.19	\$62.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2020		\$40.41	\$26.10	\$66.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2021		\$41.95	\$26.56	\$68.51
Operators (Building/Heavy, Class 02a - See Notes)	5/1/2019		\$38.87	\$25.64	\$64.51
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2019		\$33.69	\$24.11	\$57.80
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2018		\$32.15	\$23.66	\$55.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2017		\$30.60	\$23.21	\$53.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2021		\$36.78	\$25.03	\$61.81
Operators (Building/Heavy, Class 03 - See Notes)	5/1/2020		\$35.23	\$24.57	\$59.80
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2017		\$29.47	\$22.88	\$52.35
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2019		\$32.55	\$23.78	\$56.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2018		\$31.01	\$23.32	\$54.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2021		\$35.64	\$24.69	\$60.33
Operators (Building/Heavy, Class 04 - See Notes)	5/1/2020		\$33.65	\$24.11	\$57.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2017		\$29.02	\$22.74	\$51.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2019		\$32.11	\$23.65	\$55.76

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2018		\$30.56	\$23.20	\$53.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2020		\$33.65	\$24.11	\$57.76
Operators (Building/Heavy, Class 05 - See Notes)	5/1/2021		\$35.20	\$24.56	\$59.76
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2020		\$32.78	\$23.84	\$56.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2021		\$34.31	\$24.31	\$58.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2019		\$31.22	\$23.40	\$54.62
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2017		\$28.14	\$22.49	\$50.63
Operators (Building/Heavy, Class 06 - See Notes)	5/1/2018		\$29.68	\$22.93	\$52.61
Operators (Heavy, Class 07A - See Notes)	5/1/2018		\$42.58	\$28.18	\$70.76
Operators (Heavy, Class 07A - See Notes)	5/1/2017		\$40.73	\$27.63	\$68.36
Operators (Heavy, Class 07A - See Notes)	5/1/2019		\$44.43	\$28.73	\$73.16
Operators (Heavy, Class 07A - See Notes)	5/1/2021		\$48.14	\$29.83	\$77.97
Operators (Heavy, Class 07A - See Notes)	5/1/2020		\$46.28	\$29.27	\$75.55
Operators (Heavy, Class 07B - See Notes)	5/1/2020		\$45.94	\$29.17	\$75.11
Operators (Heavy, Class 07B - See Notes)	5/1/2021		\$47.79	\$29.71	\$77.50
Operators (Heavy, Class 07B - See Notes)	5/1/2019		\$44.09	\$28.63	\$72.72
Operators (Heavy, Class 07B - See Notes)	5/1/2017		\$40.38	\$27.53	\$67.91
Operators (Heavy, Class 07B - See Notes)	5/1/2018		\$42.23	\$28.09	\$70.32
Operators (Highway, Class 01 - See Notes)	5/1/2016		\$32.16	\$22.64	\$54.80
Operators (Highway, Class 01 - See Notes)	5/1/2020		\$37.56	\$25.24	\$62.80
Operators (Highway, Class 01 - See Notes)	5/1/2021		\$39.10	\$25.70	\$64.80
Operators (Highway, Class 01 - See Notes)	5/1/2018		\$34.47	\$24.33	\$58.80
Operators (Highway, Class 01 - See Notes)	5/1/2019		\$36.02	\$24.79	\$60.81
Operators (Highway, Class 01 - See Notes)	5/1/2017		\$32.93	\$23.87	\$56.80
Operators (Highway, Class 01a - See Notes)	5/1/2019		\$38.27	\$25.46	\$63.73
Operators (Highway, Class 01a - See Notes)	5/1/2021		\$41.35	\$26.38	\$67.73
Operators (Highway, Class 01a - See Notes)	5/1/2018		\$36.72	\$25.01	\$61.73
Operators (Highway, Class 01a - See Notes)	5/1/2020		\$39.81	\$25.92	\$65.73
Operators (Highway, Class 01a - See Notes)	5/1/2017		\$35.18	\$24.56	\$59.74
Operators (Highway, Class 02 - See Notes)	5/1/2019		\$34.84	\$24.44	\$59.28
Operators (Highway, Class 02 - See Notes)	5/1/2020		\$36.38	\$24.90	\$61.28
Operators (Highway, Class 02 - See Notes)	5/1/2021		\$37.93	\$25.35	\$63.28
Operators (Highway, Class 02 - See Notes)	5/1/2018		\$33.30	\$23.98	\$57.28
Operators (Highway, Class 02 - See Notes)	5/1/2017		\$31.75	\$23.53	\$55.28
Operators (Highway, Class 02 - See Notes)	5/1/2016		\$30.98	\$22.31	\$53.29
Operators (Highway, Class 03 - See Notes)	5/1/2019		\$34.14	\$24.25	\$58.39
Operators (Highway, Class 03 - See Notes)	5/1/2020		\$35.69	\$24.69	\$60.38
Operators (Highway, Class 03 - See Notes)	5/1/2021		\$37.23	\$25.16	\$62.39
Operators (Highway, Class 03 - See Notes)	5/1/2018		\$32.59	\$23.80	\$56.39
Operators (Highway, Class 03 - See Notes)	5/1/2016		\$30.28	\$22.10	\$52.38
Operators (Highway, Class 03 - See Notes)	5/1/2017		\$31.06	\$23.32	\$54.38
Operators (Highway, Class 04 - See Notes)	5/1/2020		\$35.23	\$24.57	\$59.80
Operators (Highway, Class 04 - See Notes)	5/1/2021		\$36.77	\$25.03	\$61.80
Operators (Highway, Class 04 - See Notes)	5/1/2019		\$33.68	\$24.12	\$57.80

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Highway, Class 04 - See Notes)	5/1/2017		\$30.60	\$23.20	\$53.80
Operators (Highway, Class 04 - See Notes)	5/1/2018		\$32.14	\$23.66	\$55.80
Operators (Highway, Class 04 - See Notes)	5/1/2016		\$29.82	\$21.98	\$51.80
Operators (Highway, Class 05 - See Notes)	5/1/2020		\$34.72	\$24.42	\$59.14
Operators (Highway, Class 05 - See Notes)	5/1/2021		\$36.26	\$24.87	\$61.13
Operators (Highway, Class 05 - See Notes)	5/1/2017		\$30.08	\$23.06	\$53.14
Operators (Highway, Class 05 - See Notes)	5/1/2018		\$31.63	\$23.51	\$55.14
Operators (Highway, Class 05 - See Notes)	5/1/2016		\$29.31	\$21.83	\$51.14
Operators (Highway, Class 05 - See Notes)	5/1/2019		\$33.18	\$23.97	\$57.15
Operators (Highway, Class 06 - See Notes)	5/1/2020		\$37.79	\$25.30	\$63.09
Operators (Highway, Class 06 - See Notes)	5/1/2021		\$39.33	\$25.78	\$65.11
Operators (Highway, Class 06 - See Notes)	5/1/2019		\$36.25	\$24.85	\$61.10
Operators (Highway, Class 06 - See Notes)	5/1/2017		\$33.17	\$23.94	\$57.11
Operators (Highway, Class 06 - See Notes)	5/1/2018		\$34.71	\$24.39	\$59.10
Operators (Highway, Class 06 - See Notes)	5/1/2016		\$32.40	\$22.70	\$55.10
Operators (Highway, Class 06/A - See Notes)	5/1/2016		\$34.65	\$23.36	\$58.01
Operators (Highway, Class 06/A - See Notes)	5/1/2019		\$38.50	\$25.52	\$64.02
Operators (Highway, Class 06/A - See Notes)	5/1/2018		\$36.96	\$25.05	\$62.01
Operators (Highway, Class 06/A - See Notes)	5/1/2020		\$40.04	\$25.97	\$66.01
Operators (Highway, Class 06/A - See Notes)	5/1/2017		\$35.42	\$24.59	\$60.01
Operators (Highway, Class 06/A - See Notes)	5/1/2021		\$41.58	\$26.43	\$68.01
Operators (Highway, Class 07/A - See Notes)	5/1/2017		\$39.66	\$27.31	\$66.97
Operators (Highway, Class 07/A - See Notes)	5/1/2016		\$38.56	\$25.99	\$64.55
Operators (Highway, Class 07/A - See Notes)	5/1/2020		\$45.23	\$28.94	\$74.17
Operators (Highway, Class 07/A - See Notes)	5/1/2019		\$43.37	\$28.41	\$71.78
Operators (Highway, Class 07/A - See Notes)	5/1/2021		\$47.08	\$29.49	\$76.57
Operators (Highway, Class 07/A - See Notes)	5/1/2018		\$41.52	\$27.84	\$69.36
Operators (Highway, Class 07/B - See Notes)	5/1/2021		\$45.66	\$29.08	\$74.74
Operators (Highway, Class 07/B - See Notes)	5/1/2019		\$43.37	\$28.41	\$71.78
Operators (Highway, Class 07/B - See Notes)	5/1/2016		\$37.17	\$25.57	\$62.74
Operators (Highway, Class 07/B - See Notes)	5/1/2017		\$38.25	\$26.89	\$65.14
Operators (Highway, Class 07/B - See Notes)	5/1/2018		\$40.10	\$27.44	\$67.54
Operators (Highway, Class 07/B - See Notes)	5/1/2020		\$43.81	\$28.53	\$72.34
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2017		\$40.98	\$32.53	\$73.51
Truckdriver class 1(see notes)	5/1/2018		\$35.32	\$0.00	\$35.32
Truckdriver class 1(see notes)	5/1/2019		\$36.12	\$0.00	\$36.12
Truckdriver class 1(see notes)	5/1/2017		\$34.47	\$0.00	\$34.47
Truckdriver class 1(see notes)	5/1/2016		\$33.57	\$0.00	\$33.57
Truckdriver class 2 (see notes)	5/1/2017		\$34.54	\$0.00	\$34.54
Truckdriver class 2 (see notes)	5/1/2018		\$35.39	\$0.00	\$35.39
Truckdriver class 2 (see notes)	5/1/2016		\$33.64	\$0.00	\$33.64
Truckdriver class 2 (see notes)	5/1/2019		\$36.19	\$0.00	\$36.19
Truckdriver class 3 (see notes)	5/1/2019		\$36.68	\$0.00	\$36.68
Truckdriver class 3 (see notes)	5/1/2016		\$34.13	\$0.00	\$34.13

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01784 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Truckdriver class 3 (see notes)	5/1/2017		\$35.03	\$0.00	\$35.03
Truckdriver class 3 (see notes)	5/1/2018		\$35.88	\$0.00	\$35.88

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	Electronic Surveillance / Detection System Maintenance Contract
Awarding Agency:	Delaware River Joint Toll Bridge Commission
Contract Award Date:	3/28/2018
Serial Number:	18-01794
Project Classification:	Building/Highway
Determination Date:	3/9/2018
Assigned Field Office:	Philadelphia
Field Office Phone Number:	(215)560-1858
Toll Free Phone Number:	
Project County:	Bucks County

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	5/29/2017		\$47.30	\$34.85	\$82.15
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2018		\$29.52	\$18.22	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2017		\$28.52	\$18.22	\$46.74
Boilermakers	3/1/2018		\$45.89	\$33.73	\$79.62
Boilermakers	1/1/2018		\$46.26	\$33.36	\$79.62
Boilermakers	1/1/2017		\$44.26	\$33.36	\$77.62
Bricklayer	5/1/2019		\$46.48	\$26.78	\$73.26
Bricklayer	5/1/2018		\$43.73	\$26.78	\$70.51
Bricklayer	5/1/2017		\$40.98	\$26.78	\$67.76
Carpenter - Chief of Party (Surveying & Layout)	5/1/2017		\$45.25	\$27.59	\$72.84
Carpenter - Instrument Person (Surveying & Layout)	5/1/2017		\$39.35	\$27.59	\$66.94
Carpenter - Rodman (Surveying & Layout)	5/1/2017		\$19.68	\$19.64	\$39.32
Carpenters	5/1/2017		\$39.35	\$27.59	\$66.94
Cement Masons	5/1/2017		\$36.45	\$31.76	\$68.21
DockBuilder/Pile Drivers Divers(Building, Heavy & Highway)	5/1/2018		\$53.64	\$33.22	\$86.86
DockBuilder/Pile Drivers Divers(Building, Heavy & Highway)	11/1/2017		\$52.14	\$33.22	\$85.36
Dockbuilder/Piledriver (Building, Heavy, Highway)	11/1/2017		\$43.45	\$33.22	\$76.67
Dockbuilder/Piledriver (Building, Heavy, Highway)	5/1/2018		\$44.70	\$33.22	\$77.92
Drapery Installers	5/1/2009		\$31.09	\$21.34	\$52.43
Drywall Finisher	5/1/2017		\$37.11	\$26.75	\$63.86
Electricians & Telecommunications Installation Technician	12/1/2017		\$39.81	\$18.88	\$58.69
Electricians & Telecommunications Installation Technician	6/1/2017		\$39.81	\$18.18	\$57.99
Elevator Constructor	1/1/2018		\$55.76	\$33.05	\$88.81
Elevator Constructor	1/1/2016		\$52.79	\$30.29	\$83.08
Floor Layer	5/1/2017		\$42.51	\$27.91	\$70.42
Glazier	5/1/2017		\$41.30	\$30.80	\$72.10
Iron Workers	1/1/2017		\$46.20	\$31.26	\$77.46
Iron Workers	7/1/2017		\$47.30	\$32.91	\$80.21
Iron Workers - Reinforcing Steel Mesh - Rebar	7/1/2017		\$42.56	\$29.30	\$71.86
Iron Workers (Riggers)	7/1/2017		\$39.83	\$27.92	\$67.75
Laborers (Class 01 - See notes)	5/1/2017		\$28.65	\$24.95	\$53.60
Laborers (Class 02 - See notes)	5/1/2017		\$30.85	\$25.65	\$56.50
Laborers (Class 03 - See notes)	5/1/2017		\$28.92	\$25.18	\$54.10
Laborers (Class 05 - See notes)	5/1/2017		\$28.65	\$24.95	\$53.60
Landscape Laborer	5/1/2017		\$22.71	\$23.08	\$45.79
Marble Finisher	5/1/2017		\$35.55	\$24.17	\$59.72
Marble Finisher	5/1/2018		\$37.55	\$24.17	\$61.72
Marble Finisher	5/1/2019		\$39.75	\$24.17	\$63.92
Marble Mason	5/1/2017		\$40.36	\$26.99	\$67.35
Marble Mason	5/1/2019		\$45.86	\$26.99	\$72.85

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Marble Mason	5/1/2018		\$43.11	\$26.99	\$70.10
Millwright	7/1/2017		\$41.35	\$32.24	\$73.59
Operators (Building, Class 01 - See Notes)	5/1/2017		\$44.87	\$28.14	\$73.01
Operators (Building, Class 01 - See Notes)	5/1/2017		\$44.87	\$28.14	\$73.01
Operators (Building, Class 01 - See Notes)	5/1/2020		\$49.50	\$29.51	\$79.01
Operators (Building, Class 01 - See Notes)	5/1/2019		\$47.95	\$29.06	\$77.01
Operators (Building, Class 01 - See Notes)	5/1/2018		\$46.41	\$28.60	\$75.01
Operators (Building, Class 01 - See Notes)	5/1/2021		\$51.04	\$29.97	\$81.01
Operators (Building, Class 01A - See Notes)	5/1/2021		\$54.05	\$30.85	\$84.90
Operators (Building, Class 01A - See Notes)	5/1/2017		\$47.86	\$29.03	\$76.89
Operators (Building, Class 01A - See Notes)	5/1/2020		\$52.50	\$30.40	\$82.90
Operators (Building, Class 01A - See Notes)	5/1/2018		\$49.41	\$29.49	\$78.90
Operators (Building, Class 01A - See Notes)	5/1/2019		\$50.96	\$29.94	\$80.90
Operators (Building, Class 02 - See Notes)	5/1/2020		\$49.25	\$29.44	\$78.69
Operators (Building, Class 02 - See Notes)	5/1/2021		\$50.80	\$29.89	\$80.69
Operators (Building, Class 02 - See Notes)	5/1/2019		\$47.70	\$28.99	\$76.69
Operators (Building, Class 02 - See Notes)	5/1/2017		\$44.62	\$28.07	\$72.69
Operators (Building, Class 02 - See Notes)	5/1/2018		\$46.16	\$28.53	\$74.69
Operators (Building, Class 02A - See Notes)	5/1/2017		\$47.61	\$28.97	\$76.58
Operators (Building, Class 02A - See Notes)	5/1/2020		\$52.26	\$30.31	\$82.57
Operators (Building, Class 02A - See Notes)	5/1/2021		\$53.81	\$30.77	\$84.58
Operators (Building, Class 02A - See Notes)	5/1/2018		\$49.16	\$29.42	\$78.58
Operators (Building, Class 02A - See Notes)	5/1/2019		\$50.71	\$29.87	\$80.58
Operators (Building, Class 03 - See Notes)	5/1/2021		\$46.71	\$28.69	\$75.40
Operators (Building, Class 03 - See Notes)	5/1/2020		\$45.17	\$28.24	\$73.41
Operators (Building, Class 03 - See Notes)	5/1/2019		\$43.62	\$27.78	\$71.40
Operators (Building, Class 03 - See Notes)	5/1/2018		\$42.07	\$27.33	\$69.40
Operators (Building, Class 03 - See Notes)	5/1/2017		\$40.53	\$26.87	\$67.40
Operators (Building, Class 04 - See Notes)	5/1/2020		\$44.86	\$28.14	\$73.00
Operators (Building, Class 04 - See Notes)	5/1/2021		\$46.41	\$28.60	\$75.01
Operators (Building, Class 04 - See Notes)	5/1/2019		\$43.32	\$27.69	\$71.01
Operators (Building, Class 04 - See Notes)	5/1/2017		\$40.24	\$26.78	\$67.02
Operators (Building, Class 04 - See Notes)	5/1/2018		\$41.78	\$27.22	\$69.00
Operators (Building, Class 05 - See Notes)	5/1/2020		\$43.14	\$27.64	\$70.78
Operators (Building, Class 05 - See Notes)	5/1/2021		\$44.69	\$28.10	\$72.79
Operators (Building, Class 05 - See Notes)	5/1/2019		\$41.60	\$27.18	\$68.78
Operators (Building, Class 05 - See Notes)	5/1/2017		\$38.51	\$26.27	\$64.78
Operators (Building, Class 05 - See Notes)	5/1/2018		\$40.05	\$26.73	\$66.78
Operators (Building, Class 06 - See Notes)	5/1/2021		\$43.70	\$27.80	\$71.50
Operators (Building, Class 06 - See Notes)	5/1/2018		\$39.07	\$26.43	\$65.50
Operators (Building, Class 06 - See Notes)	5/1/2020		\$42.16	\$27.35	\$69.51
Operators (Building, Class 06 - See Notes)	5/1/2017		\$37.52	\$25.98	\$63.50
Operators (Building, Class 06 - See Notes)	5/1/2019		\$40.61	\$26.89	\$67.50
Operators (Building, Class 07A- See Notes)	5/1/2018		\$55.99	\$33.02	\$89.01

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Building, Class 07A- See Notes)	5/1/2019		\$57.84	\$33.57	\$91.41
Operators (Building, Class 07A- See Notes)	5/1/2017		\$54.14	\$32.47	\$86.61
Operators (Building, Class 07A- See Notes)	5/1/2020		\$59.70	\$34.10	\$93.80
Operators (Building, Class 07A- See Notes)	5/1/2021		\$61.55	\$34.65	\$96.20
Operators (Building, Class 07B- See Notes)	5/1/2020		\$59.40	\$34.03	\$93.43
Operators (Building, Class 07B- See Notes)	5/1/2021		\$61.26	\$34.58	\$95.84
Operators (Building, Class 07B- See Notes)	5/1/2017		\$53.84	\$32.40	\$86.24
Operators (Building, Class 07B- See Notes)	5/1/2018		\$55.70	\$32.92	\$88.62
Operators (Building, Class 07B- See Notes)	5/1/2019		\$57.55	\$33.47	\$91.02
Painters Class 1 (see notes)	5/1/2017		\$37.82	\$26.46	\$64.28
Painters Class 1 (see notes)	2/1/2018		\$43.18	\$27.23	\$70.41
Painters Class 2 (see notes)	5/1/2017		\$53.67	\$26.09	\$79.76
Painters Class 2 (see notes)	2/1/2018		\$54.14	\$27.27	\$81.41
Painters Class 3 (see notes)	5/1/2017		\$38.20	\$26.46	\$64.66
Plasterers	5/1/2017		\$37.42	\$28.83	\$66.25
Plumbers	5/1/2017		\$51.42	\$32.57	\$83.99
Pointers, Caulkers, Cleaners	5/1/2017		\$42.26	\$25.69	\$67.95
Pointers, Caulkers, Cleaners	5/1/2018		\$45.01	\$25.69	\$70.70
Pointers, Caulkers, Cleaners	5/1/2019		\$47.76	\$25.69	\$73.45
Roofers (Composition)	5/1/2017		\$36.15	\$30.22	\$66.37
Roofers (Shingle)	5/1/2016		\$25.70	\$19.17	\$44.87
Roofers (Slate & Tile)	5/1/2016		\$28.70	\$19.17	\$47.87
Sheet Metal Workers	5/1/2017		\$46.42	\$39.51	\$85.93
Sprinklerfitters	4/1/2017		\$37.40	\$21.74	\$59.14
Sprinklerfitters	4/1/2018		\$38.80	\$22.74	\$61.54
Steamfitters	5/1/2017		\$54.64	\$32.53	\$87.17
Stone Masons	5/1/2017		\$40.36	\$26.99	\$67.35
Stone Masons	5/1/2019		\$45.86	\$26.99	\$72.85
Stone Masons	5/1/2018		\$43.11	\$26.99	\$70.10
Terrazzo Finisher	5/1/2017		\$39.06	\$22.73	\$61.79
Terrazzo Finisher	5/1/2019		\$43.61	\$22.73	\$66.34
Terrazzo Finisher	5/1/2018		\$41.31	\$22.73	\$64.04
Terrazzo Grinder	5/1/2019		\$43.98	\$22.73	\$66.71
Terrazzo Grinder	5/1/2018		\$41.58	\$22.73	\$64.31
Terrazzo Grinder	5/1/2017		\$39.33	\$22.73	\$62.06
Terrazzo Mechanics	5/1/2019		\$49.21	\$24.81	\$74.02
Terrazzo Mechanics	5/1/2018		\$46.46	\$24.81	\$71.27
Terrazzo Mechanics	5/1/2017		\$43.71	\$24.81	\$68.52
Tile Finisher	5/1/2018		\$37.55	\$24.17	\$61.72
Tile Finisher	5/1/2019		\$39.75	\$24.17	\$63.92
Tile Finisher	5/1/2017		\$35.55	\$24.17	\$59.72
Tile Setter	5/1/2018		\$46.46	\$24.81	\$71.27
Tile Setter	5/1/2019		\$49.21	\$24.81	\$74.02
Tile Setter	5/1/2017		\$43.71	\$24.81	\$68.52

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Truckdriver class 1(see notes)	5/1/2019		\$33.43	\$17.96	\$51.39
Truckdriver class 1(see notes)	5/1/2020		\$34.93	\$17.96	\$52.89
Truckdriver class 1(see notes)	5/1/2021		\$36.48	\$17.96	\$54.44
Truckdriver class 1(see notes)	5/1/2018		\$31.93	\$17.96	\$49.89
Truckdriver class 1(see notes)	5/1/2017		\$30.46	\$17.96	\$48.42
Truckdriver class 2 (see notes)	5/1/2017		\$30.56	\$17.96	\$48.52
Truckdriver class 2 (see notes)	5/1/2018		\$32.03	\$17.96	\$49.99
Truckdriver class 2 (see notes)	5/1/2021		\$36.58	\$17.96	\$54.54
Truckdriver class 2 (see notes)	5/1/2020		\$35.03	\$17.96	\$52.99
Truckdriver class 2 (see notes)	5/1/2019		\$33.53	\$17.96	\$51.49
Truckdriver class 3 (see notes)	5/1/2017		\$30.81	\$17.96	\$48.77
Truckdriver class 3 (see notes)	5/1/2020		\$35.28	\$17.96	\$53.24
Truckdriver class 3 (see notes)	5/1/2021		\$36.83	\$17.96	\$54.79
Truckdriver class 3 (see notes)	5/1/2018		\$32.28	\$17.96	\$50.24
Truckdriver class 3 (see notes)	5/1/2019		\$33.78	\$17.96	\$51.74

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter - Chief of Party (Surveying & Layout)	5/1/2020		\$57.97	\$27.39	\$85.36
Carpenter - Chief of Party (Surveying & Layout)	5/1/2021		\$60.27	\$27.39	\$87.66
Carpenter - Chief of Party (Surveying & Layout)	5/1/2019		\$55.72	\$27.39	\$83.11
Carpenter - Chief of Party (Surveying & Layout)	5/1/2017		\$51.42	\$27.39	\$78.81
Carpenter - Chief of Party (Surveying & Layout)	5/1/2018		\$53.54	\$27.39	\$80.93
Carpenter - Instrument Person (Surveying & Layout)	5/1/2017		\$44.71	\$27.39	\$72.10
Carpenter - Instrument Person (Surveying & Layout)	5/1/2019		\$48.46	\$27.39	\$75.85
Carpenter - Instrument Person (Surveying & Layout)	5/1/2018		\$46.56	\$27.39	\$73.95
Carpenter - Instrument Person (Surveying & Layout)	5/1/2020		\$50.41	\$27.39	\$77.80
Carpenter - Instrument Person (Surveying & Layout)	5/1/2021		\$52.41	\$27.39	\$79.80
Carpenter - Rodman (Surveying & Layout)	5/1/2020		\$40.33	\$21.19	\$61.52
Carpenter - Rodman (Surveying & Layout)	5/1/2017		\$35.77	\$21.19	\$56.96
Carpenter - Rodman (Surveying & Layout)	5/1/2019		\$38.77	\$21.19	\$59.96
Carpenter - Rodman (Surveying & Layout)	5/1/2021		\$41.93	\$21.19	\$63.12
Carpenter - Rodman (Surveying & Layout)	5/1/2018		\$37.25	\$21.19	\$58.44
Carpenters	5/1/2020		\$50.41	\$27.39	\$77.80
Carpenters	5/1/2021		\$52.41	\$27.39	\$79.80
Carpenters	5/1/2017		\$44.71	\$27.39	\$72.10
Carpenters	5/1/2018		\$46.56	\$27.39	\$73.95
Carpenters	5/1/2019		\$48.46	\$27.39	\$75.85
Cement Masons	5/1/2017		\$34.45	\$31.51	\$65.96
Cement Masons	5/1/2018		\$36.15	\$31.51	\$67.66
Cement Masons	5/1/2019		\$37.90	\$31.51	\$69.41
Cement Masons	5/1/2020		\$39.70	\$31.51	\$71.21
Cement Masons	5/1/2021		\$41.55	\$31.51	\$73.06
Electric Lineman	5/27/2019		\$54.66	\$28.56	\$83.22
Electric Lineman	5/28/2018		\$53.64	\$27.45	\$81.09
Electric Lineman	5/29/2017		\$52.60	\$26.37	\$78.97
Iron Workers	7/1/2017		\$47.30	\$32.91	\$80.21
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	1/1/2017		\$46.20	\$31.26	\$77.46
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	7/1/2016		\$46.20	\$31.26	\$77.46
Laborers (Class 01 - See notes)	5/1/2020		\$34.45	\$25.65	\$60.10
Laborers (Class 01 - See notes)	5/1/2021		\$36.20	\$25.65	\$61.85
Laborers (Class 01 - See notes)	5/1/2019		\$32.80	\$25.65	\$58.45
Laborers (Class 01 - See notes)	5/1/2018		\$31.25	\$25.65	\$56.90
Laborers (Class 01 - See notes)	5/1/2017		\$29.75	\$25.65	\$55.40
Laborers (Class 02 - See notes)	5/1/2019		\$33.00	\$25.65	\$58.65
Laborers (Class 02 - See notes)	5/1/2017		\$29.95	\$25.65	\$55.60
Laborers (Class 02 - See notes)	5/1/2020		\$34.65	\$25.65	\$60.30
Laborers (Class 02 - See notes)	5/1/2021		\$36.40	\$25.65	\$62.05
Laborers (Class 02 - See notes)	5/1/2018		\$31.45	\$25.65	\$57.10
Laborers (Class 03 - See notes)	5/1/2020		\$34.65	\$25.65	\$60.30
Laborers (Class 03 - See notes)	5/1/2017		\$29.95	\$25.65	\$55.60

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 03 - See notes)	5/1/2018		\$31.45	\$25.65	\$57.10
Laborers (Class 03 - See notes)	5/1/2019		\$33.00	\$25.65	\$58.65
Laborers (Class 03 - See notes)	5/1/2021		\$36.40	\$25.65	\$62.05
Laborers (Class 04 - See notes)	5/1/2019		\$27.60	\$25.65	\$53.25
Laborers (Class 04 - See notes)	5/1/2020		\$29.25	\$25.65	\$54.90
Laborers (Class 04 - See notes)	5/1/2017		\$24.55	\$25.65	\$50.20
Laborers (Class 04 - See notes)	5/1/2018		\$26.05	\$25.65	\$51.70
Laborers (Class 04 - See notes)	5/1/2021		\$31.00	\$25.65	\$56.65
Laborers (Class 05 - See notes)	5/1/2021		\$37.05	\$25.65	\$62.70
Laborers (Class 05 - See notes)	5/1/2018		\$32.10	\$25.65	\$57.75
Laborers (Class 05 - See notes)	5/1/2019		\$33.65	\$25.65	\$59.30
Laborers (Class 05 - See notes)	5/1/2017		\$30.60	\$25.65	\$56.25
Laborers (Class 05 - See notes)	5/1/2020		\$35.30	\$25.65	\$60.95
Laborers (Class 06 - See notes)	5/1/2018		\$32.15	\$25.65	\$57.80
Laborers (Class 06 - See notes)	5/1/2019		\$33.70	\$25.65	\$59.35
Laborers (Class 06 - See notes)	5/1/2021		\$37.10	\$25.65	\$62.75
Laborers (Class 06 - See notes)	5/1/2020		\$35.35	\$25.65	\$61.00
Laborers (Class 06 - See notes)	5/1/2017		\$30.65	\$25.65	\$56.30
Laborers (Class 07 - See notes)	5/1/2021		\$36.95	\$25.65	\$62.60
Laborers (Class 07 - See notes)	5/1/2019		\$33.55	\$25.65	\$59.20
Laborers (Class 07 - See notes)	5/1/2020		\$35.20	\$25.65	\$60.85
Laborers (Class 07 - See notes)	5/1/2017		\$30.50	\$25.65	\$56.15
Laborers (Class 07 - See notes)	5/1/2018		\$32.00	\$25.65	\$57.65
Laborers (Class 08 - See notes)	5/1/2020		\$34.95	\$25.65	\$60.60
Laborers (Class 08 - See notes)	5/1/2017		\$30.25	\$25.65	\$55.90
Laborers (Class 08 - See notes)	5/1/2019		\$33.30	\$25.65	\$58.95
Laborers (Class 08 - See notes)	5/1/2021		\$36.70	\$25.65	\$62.35
Laborers (Class 08 - See notes)	5/1/2018		\$31.75	\$25.65	\$57.40
Laborers (Class 09 - See notes)	5/1/2017		\$30.10	\$25.65	\$55.75
Laborers (Class 09 - See notes)	5/1/2020		\$34.80	\$25.65	\$60.45
Laborers (Class 09 - See notes)	5/1/2021		\$36.55	\$25.65	\$62.20
Laborers (Class 09 - See notes)	5/1/2018		\$31.60	\$25.65	\$57.25
Laborers (Class 09 - See notes)	5/1/2019		\$33.15	\$25.65	\$58.80
Laborers (Class 10- See notes)	5/1/2017		\$30.25	\$25.65	\$55.90
Laborers (Class 10- See notes)	5/1/2018		\$33.30	\$25.65	\$58.95
Laborers (Class 10- See notes)	5/1/2021		\$36.70	\$25.65	\$62.35
Laborers (Class 10- See notes)	5/1/2020		\$34.95	\$25.65	\$60.60
Laborers (Class 10- See notes)	5/1/2018		\$31.75	\$25.65	\$57.40
Laborers (Class 11 -See Notes)	5/1/2017		\$30.15	\$25.65	\$55.80
Laborers (Class 11 -See Notes)	5/1/2019		\$33.10	\$25.65	\$58.75
Laborers (Class 11 -See Notes)	5/1/2021		\$36.50	\$25.65	\$62.15
Laborers (Class 11 -See Notes)	5/1/2020		\$34.75	\$25.65	\$60.40
Laborers (Class 11 -See Notes)	5/1/2018		\$31.55	\$25.65	\$57.20
Laborers (Class 12 -See Notes)	5/1/2017		\$31.85	\$25.65	\$57.50

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 12 -See Notes)	5/1/2020		\$35.65	\$25.65	\$61.30
Laborers (Class 12 -See Notes)	5/1/2021		\$37.40	\$25.65	\$63.05
Laborers (Class 12 -See Notes)	5/1/2019		\$34.00	\$25.65	\$59.65
Laborers (Class 12 -See Notes)	5/1/2018		\$32.45	\$25.65	\$58.10
Laborers (Class 13 -See Notes)	5/1/2017		\$33.88	\$25.65	\$59.53
Laborers (Class 13 -See Notes)	5/1/2019		\$36.93	\$25.65	\$62.58
Laborers (Class 13 -See Notes)	5/1/2018		\$35.38	\$25.65	\$61.03
Laborers (Class 13 -See Notes)	5/1/2021		\$40.33	\$25.65	\$65.98
Laborers (Class 13 -See Notes)	5/1/2020		\$38.58	\$25.65	\$64.23
Laborers (Class 14 -See Notes)	5/1/2021		\$36.45	\$25.65	\$62.10
Laborers (Class 14 -See Notes)	5/1/2018		\$31.50	\$25.65	\$57.15
Laborers (Class 14 -See Notes)	5/1/2020		\$34.70	\$25.65	\$60.35
Laborers (Class 14 -See Notes)	5/1/2019		\$33.05	\$25.65	\$58.70
Laborers (Class 14 -See Notes)	5/1/2017		\$30.00	\$25.65	\$55.65
Laborers Utility (PGW ONLY)	5/1/2017		\$30.55	\$17.58	\$48.13
Laborers Utility (PGW ONLY) (Flagperson)	5/1/2017		\$23.52	\$17.58	\$41.10
Landscape Laborer	5/1/2016		\$21.19	\$22.65	\$43.84
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2020		\$49.50	\$29.51	\$79.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2021		\$51.04	\$29.97	\$81.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2019		\$47.95	\$29.06	\$77.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2017		\$44.87	\$28.14	\$73.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2018		\$46.41	\$28.60	\$75.01
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2020		\$52.50	\$30.40	\$82.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2021		\$54.05	\$30.85	\$84.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2017		\$47.86	\$29.03	\$76.89
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2018		\$49.41	\$29.49	\$78.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2019		\$50.96	\$29.94	\$80.90
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2021		\$50.80	\$29.89	\$80.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2020		\$49.25	\$29.44	\$78.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2018		\$46.16	\$28.53	\$74.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2019		\$47.70	\$28.99	\$76.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2017		\$44.62	\$28.07	\$72.69
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2020		\$52.26	\$30.31	\$82.57
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2021		\$53.81	\$30.77	\$84.58

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Highway)					
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2017		\$47.61	\$28.97	\$76.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2018		\$49.16	\$29.42	\$78.58
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2019		\$43.62	\$27.78	\$71.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2018		\$42.07	\$27.33	\$69.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2017		\$40.53	\$26.87	\$67.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2021		\$46.71	\$28.69	\$75.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2020		\$45.17	\$28.24	\$73.41
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2020		\$44.86	\$28.14	\$73.00
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2021		\$46.41	\$28.60	\$75.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2019		\$43.32	\$27.69	\$71.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2017		\$40.24	\$26.78	\$67.02
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2018		\$41.78	\$27.22	\$69.00
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2019		\$41.60	\$27.18	\$68.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2021		\$44.69	\$28.10	\$72.79
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2018		\$40.05	\$26.73	\$66.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2020		\$43.14	\$27.64	\$70.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2017		\$38.51	\$26.27	\$64.78
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2020		\$42.16	\$27.35	\$69.51
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2021		\$43.70	\$27.80	\$71.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2019		\$40.61	\$26.89	\$67.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2017		\$37.52	\$25.98	\$63.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2018		\$39.07	\$26.43	\$65.50
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2020		\$59.70	\$34.10	\$93.80
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2021		\$61.55	\$34.65	\$96.20
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2019		\$57.84	\$33.57	\$91.41
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2017		\$54.14	\$32.47	\$86.61

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 18-01794 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2018		\$55.99	\$33.02	\$89.01
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2017		\$53.84	\$32.40	\$86.24
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2019		\$57.55	\$33.47	\$91.02
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2020		\$59.40	\$34.03	\$93.43
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2018		\$55.70	\$32.92	\$88.62
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2021		\$61.28	\$34.58	\$95.86
Painters (Bridges, Stacks, Towers)	2/1/2018		\$54.14	\$27.27	\$81.41
Painters (Bridges, Stacks, Towers)	2/1/2017		\$53.67	\$26.09	\$79.76
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2017		\$51.91	\$32.53	\$84.44
Truckdriver class 1(see notes)	5/1/2019		\$33.28	\$17.96	\$51.24
Truckdriver class 1(see notes)	5/1/2020		\$34.78	\$17.96	\$52.74
Truckdriver class 1(see notes)	5/1/2021		\$36.33	\$17.96	\$54.29
Truckdriver class 1(see notes)	5/1/2017		\$30.31	\$17.96	\$48.27
Truckdriver class 1(see notes)	5/1/2018		\$31.78	\$17.96	\$49.74
Truckdriver class 2 (see notes)	5/1/2019		\$33.38	\$17.96	\$51.34
Truckdriver class 2 (see notes)	5/1/2018		\$31.88	\$17.96	\$49.84
Truckdriver class 2 (see notes)	5/1/2017		\$30.41	\$17.96	\$48.37
Truckdriver class 2 (see notes)	5/1/2020		\$34.88	\$17.96	\$52.84
Truckdriver class 2 (see notes)	5/1/2021		\$36.43	\$17.96	\$54.39
Truckdriver class 3 (see notes)	5/1/2017		\$30.66	\$17.96	\$48.62
Truckdriver class 3 (see notes)	5/1/2021		\$36.68	\$17.96	\$54.64
Truckdriver class 3 (see notes)	5/1/2018		\$32.13	\$17.96	\$50.09
Truckdriver class 3 (see notes)	5/1/2019		\$33.63	\$17.96	\$51.59
Truckdriver class 3 (see notes)	5/1/2020		\$35.13	\$17.96	\$53.09

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) * receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumpcrete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Asphalt Curbing Machine

Asphalt Plant Engineer

Asphalt Spreader

Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)

Autograde Curecrete Machine (CMI & similar types)

Autograde Tube Finisher & Texturing Machine (CMI & similar types)

Bar Bending Machines (Power)

Batcher, Batching Plant, & Crusher [On Site]

Belt Conveyor System

Boom-Type Skimmer Machine

Bridge Deck Finisher

Bulldozer (all sizes)

Captain (Power Boats)

Car Dumper (railroad)

Compressor & Blower unit for loading/unloading of concrete,
cement, fly ash, or similar type materials (used independently
or truck-mounted)

Compressor (2 or 3 battery)

Concrete Breaking Machine

Concrete Cleaning/Decontamination Machine

Concrete Finishing Machine

Concrete Saw or Cutter (ride-on type)

Concrete Spreader (Hetzl, Rexomatic & similar types)

Concrete Vibrator

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Conveyors - under 125 feet

Crane Signalman

Crushing Machine

Directional Boring Machine

Ditching Machine - Small (Ditchwitch, Vermeer or similar types)

Dope Pot - Mechanical (with or without pump)

Dumpster

Elevator

Fireman

Fork Lift (Economobile, Lull & similar types)

Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)

Generator (2 or 3 battery)

Giraffe Grinder

Goldhofer/Hydraulic Jacking Trailer

Grader & Motor Patrols

Grout Pump

Gunnite Machine (Excluding nozzle)

Hammer - Vibratory (in conjunction with generator)

Heavy Equipment Robotics - Operator/Technician

Hoist (roof, tugger, aerial platform hoist, house car)

Hopper

Hopper Doors (power operated)

Ladder (motorized)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Laddervator

Locomotive (Dinky-type)

Maintenance Utility Man

Master Environmental Maintenance Technician

Mechanic

Mixer (Except paving mixers)

Pavement Breaker (truck-mounted or small self-propelled
ride-on type)

Pavement Breaker - maintenance of compressor or hydraulic unit

Pipe Bending Machine (power)

Pitch Pump

Plaster Pump (regardless of size)

Post Hole Digger (post pounder, auger)

Rod Bending Machines

Roller (black top)

Scale (power)

Seamen Pulverizing Mixer

Shoulder Widener

Silo

Skimmer Machine (boom type)

Steel Cutting Machine (service & maintenance)

Tamrock Drill

Tractor

Transfer Machines

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System -
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.31	31.70	83.01	84.36	85.36	87.71

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Autograde Pavement Profiler (CMI & similar types)

Autograde Pavement Profiler - Recycle Type (CMI & similar types)

Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)

Autograde Slipform Paver (CMI & similar types)

Backhoe (Excavator)

Central Power Plant

Concrete Paving Machine

Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.

Draglines

Drill, Bauer, AMI and similar types

Drillmaster, Quarrymaster

Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill

Elevator Grader

Field Engineer-Chief of Party

Front End Loader (5 cu. yards or larger)

Gradall

Grader, Rago

Helicopter Co-Pilot

Helicopter Communications Engineer

Juntann Pile Driver

Locomotive (large)

Mucking Machine

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Pavement & Concrete Breaker (Superhammer & Hoe Ram)

Pile Driver

Prentice Truck

Roadway Surface Grinder

Scooper (loader & shovel)

Shovel (Excavator)

Trackhoe (Excavator)

Tree Chopper with boom

Trenching Machine (cable plow)

Tunnel Boring Machine

Vacuum Truck

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Chipper

Compressor (single)

Concrete Spreader (small type)

Conveyor Loader (Except elevator graders)

Engines, Large Diesel (1620 HP) & Staging Pump

Farm Tractor

Fertilizing Equipment (operation & maintenance)

Fine Grade Machine (small type)

Form Line Grader (small type)

Front End Loader (under 1 cubic yard)

Generator (single)

Grease, Gas, Fuel, & Oil Supply Trucks

Heaters (Nelson or other type)

Lights - portable generating light plant

Mixer, Concrete (small)

Mulching Equipment (operation & maintenance)

Power Broom or Sweeper

Pump (diesel engine & hydraulic - regardless of power)

Pump (larger than 2 inch suction, including submersible pumps)

Road Finishing Machine (small type)

Roller - grade, fill, or stone base

Seeding Equipment (operation & maintenance)

Sprinkler & Water Pump Trucks

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including
proprane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and
maintenance)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.39	31.70	84.09	85.44	86.44	88.79

CLASSIFICATIONS:

Helicopter Pilot/Engineer

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.07	31.70	88.77	90.12	91.12	93.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
56.07	31.70	87.77	89.12	90.12	92.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to 139 ft.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.57	31.70	84.27	85.62	86.62	88.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
55.07	31.70	86.77	88.12	89.12	91.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.57	31.70	83.27	84.62	85.62	87.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

	01/01/2018		07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.20	31.70	85.90	87.25	88.25	90.60

CLASSIFICATIONS:

Helicopter Co-Pilot & Communications Engineer

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.14	31.70	81.84	83.19	84.19	86.54

CLASSIFICATIONS:

A-Frame

Cherry Picker -10 tons or less (Over 10 tons use crane rate)

Hoist (all types Except Chicago-boom)

Jack (screw, air hydraulic, power-operated unit or console
type, Except hand jack or pile load test type)

Side Boom

Straddle Carrier

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.48	31.70	79.18	80.53	81.53	83.88

CLASSIFICATIONS:

Aerial Platform Used On Hoists

Apprentice Engineer/Oiler with Compressor or Welding Machine

Captain (Power Boats)

Compressor (2 or 3 in battery)

Concrete Cleaning/Decontamination Machine Operator

Conveyor or Tugger Hoist

Directional Boring Machine

Elevator or House Car

Fireman

Forklift

Generator (2 or 3)

Heavy Equipment Robotics, Operator/Technician

Maintenance Utility Man

Master Environmental Maintenance Technician

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician

Vacuum Blasting Machine Operator/Maintenance Technician

Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.95	31.70	77.65	79.00	80.00	82.35

CLASSIFICATIONS:

Compressor (Single)

Generators

Welding Machines, Gas, Diesel, Or Electric Converters of any type-single

Welding System, Multiple (Rectifier Transformer Type)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
44.19	31.70	75.89	77.24	78.24	80.59

CLASSIFICATIONS:

Assistant Engineer/Oiler

Drillers Helper

Field Engineer - Transit/Instrument Man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Off Road Back Dump

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.76	31.70	83.46	84.81	85.81	88.16

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.90	31.70	82.60	83.95	84.95	87.30

CLASSIFICATIONS:

Field Engineer-Chief of Party

Vacuum Truck

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
59.09	31.70	90.79	92.14	93.14	95.49

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.43	31.70	89.13	90.48	91.48	93.83

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.93	31.70	84.63	85.98	86.98	89.33

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION Rates Expiration Date : 03/31/2020

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Helicopter Pilot & Engineer

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST **Rates Expiration Date : 03/31/2020**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Driller's Helper

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.00	29.73	71.73	73.03	75.78	78.28

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.70	29.73	71.43	72.73	75.48	77.98

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

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ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.20	29.73	70.93	72.23	74.98	77.48

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.70	29.73	73.43	74.73	77.48	79.98

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.65	29.73	70.38	71.68	74.43	76.93

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.30	29.73	70.03	71.33	74.08	76.58

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.15	29.73	69.88	71.18	73.93	76.43

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

DRILL FOR GROUND WATER SUPPLY **Rates Expiration Date : 03/31/2020**

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
49.32	31.70	81.02	82.37	83.37	85.72

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
42.48	31.70	74.18	75.53	76.53	78.88

CLASSIFICATIONS:

Driller's Helper

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

OVERTIME:

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

10/01/2017

Rate	Fringe	Total
38.18	14.33	52.51

CLASSIFICATIONS:

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

Effective Dates:

10/01/2017

Rate	Fringe	Total
33.03	13.92	46.95

CLASSIFICATIONS:

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

Effective Dates:

10/01/2017

Rate	Fringe	Total
31.09	13.77	44.86

CLASSIFICATIONS:

Certified Welder

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

Effective Dates:

10/01/2017

Rate	Fringe	Total
30.24	13.40	43.64

CLASSIFICATIONS:

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

Effective Dates:

10/01/2017

Rate	Fringe	Total
29.26	13.32	42.58

CLASSIFICATIONS:

Boat Operator

Effective Dates:

10/01/2017

Rate	Fringe	Total
24.30	12.62	36.92

CLASSIFICATIONS:

Shoreman, Deckhand, Rodman, Scowman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL **Rates Expiration Date : 02/28/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem
IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.

SHIFT DIFFERENTIALS:

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

OVERTIME:

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

Effective Dates:

03/01/2017

Rate	Fringe	Total
36.50	21.27	57.77

CLASSIFICATIONS:

Foreman

Effective Dates:

03/01/2017

Rate	Fringe	Total
33.80	21.27	55.07

CLASSIFICATIONS:

Box man

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Microsurface/Slurry Preparation

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Squeegee man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL Rates Expiration Date : 02/28/2018

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

CLASSIFICATIONS:

Cleaner, Taper

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Paving Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.05	29.73	69.78	71.08	73.83	76.33

CLASSIFICATIONS:

Head Raker

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.90	29.73	69.63	70.93	73.68	76.18

CLASSIFICATIONS:

Raker, Screedman, Luteman

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.65	29.73	69.38	70.68	73.43	75.93

CLASSIFICATIONS:

Tampers, Smoothers, Kettlemen,
Painters, Shovelers, Roller Boys

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

Milling Controller

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Traffic Control Coordinator

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH **Rates Expiration Date : 10/16/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

SHIFT DIFFERENTIAL:

Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$1.00 per hour.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Hazardous Waste Pay (for Levels A, B, and C): an additional 10% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:

- 1st year on the job - 70% of Helper wage rate
- 2nd year on the job - 80% of Helper wage rate
- 3rd year on the job - 90% of Helper wage rate
- All helpers receive full fringe benefit rate.

Effective Dates:

10/17/2017

Rate	Fringe	Total
31.62	25.55	57.17

CLASSIFICATIONS:

Helper (4th year helper)

Effective Dates:

10/17/2017

Rate	Fringe	Total
39.69	25.55	65.24

CLASSIFICATIONS:

Driller

Effective Dates:

10/17/2017

Rate	Fringe	Total
45.73	25.55	71.28

CLASSIFICATIONS:

Foreman

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; traffic control coordinator; asphalt raker or lute man

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

"A" Rate:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

"GENERAL FOREMAN" Rate

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

wagon drill or drill master helper; powder carrier; magazine tender; signal man

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

wagon or directional drill operator; drill master

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

general foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; gunite nozzle man

PIPELINE - MAINLINE TRANSMISSION **Rates Expiration Date : 06/03/2018**

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$42.50; Pipeline Journeyman Welder: \$102.50; and Pipeline Helper: \$42.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
 - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
 - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman Welder

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

PIPELINE - MAINLINE TRANSMISSION Rates Expiration Date : 06/03/2018

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

06/05/2017

Rate	Fringe	Total
33.27	19.97	53.24

CLASSIFICATIONS:

Pipeline Helper

PIPELINE - GAS DISTRIBUTION **Rates Expiration Date : 10/31/2020**

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

SHIFT DIFFERENTIALS:

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman Welder

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
37.68	16.74	54.42	56.00	57.67

CLASSIFICATIONS:

Pipeline Helper

ASPHALT LABORERS- NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Asphalt Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

Asphalt Screedman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Asphalt Raker or Lute Man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS- NORTH Rates Expiration Date : 02/28/2021

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

Asphalt Laborer

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Electrician-Utility Work (North)

(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).

These rates apply to work contracted for by the following utility companies:

Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.

These rates do not apply to work on substations or switching stations.

For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.

3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

Four 10-hour days may be worked, at straight time, between 7:00 AM and 6:30 PM, Monday through Thursday.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
53.70	35.97	89.67	92.06	94.45	96.84

CLASSIFICATIONS:

Chief Lineman

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Journeyman Lineman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Special License Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Transit Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
48.64	32.58	81.22	83.38	85.53	87.70

CLASSIFICATIONS:

Line Equipment Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
42.56	28.51	71.07	72.96	74.84	76.73

CLASSIFICATIONS:

Dynamite Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
63.33	42.43	105.76	108.56	111.38	114.19

CLASSIFICATIONS:

General Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
58.26	39.03	97.29	99.88	102.47	105.05

CLASSIFICATIONS:

Assistant General Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
56.74	38.01	94.75	97.27	99.79	102.32

CLASSIFICATIONS:

Line Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
41.04	27.49	68.53	70.35	72.17	73.99

CLASSIFICATIONS:

Street Light Mechanical Leader

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Winch Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Truck Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Street Light Mechanic

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Line Equipment Mechanic

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
32.93	22.06	54.99	56.46	57.91	59.38

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
30.40	20.36	50.76	52.12	53.47	54.80

CLASSIFICATIONS:

Groundman 1st Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Line Equipment Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North)", see the "Outside Commercial Rates" for the county in which the jobsite is located.

*** FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES**

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

RECOGNIZED HOLIDAYS:

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

WORKING RULES:

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

Effective Dates:

12/03/2017

Rate	Fringe	Total
60.25	46.05	106.30

CLASSIFICATIONS:

General Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
53.66	42.21	95.87

CLASSIFICATIONS:

Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
50.84	40.58	91.42

CLASSIFICATIONS:

Small Job Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Heavy Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Cable Splicer

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Lineman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Welder

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Painter

Effective Dates:

12/03/2017

Rate	Fringe	Total
37.66	32.92	70.58

CLASSIFICATIONS:

Light Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
32.95	30.18	63.13

CLASSIFICATIONS:

Groundman Truck Driver

Effective Dates:

12/03/2017

Rate	Fringe	Total
30.60	28.82	59.42

CLASSIFICATIONS:

Groundman 3rd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
28.24	27.44	55.68

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
25.89	26.08	51.97

CLASSIFICATIONS:

Groundman 1st Year

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date : 12/04/2021

Effective Dates:

12/03/2017

Rate	Fringe	Total
20.71	23.07	43.78

CLASSIFICATIONS:

Flagman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

****THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY****

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
63.00	29.73	92.73	94.41	97.91	101.16

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
62.55	29.73	92.28	93.96	97.46	100.71

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
61.80	29.73	91.53	93.21	96.71	99.96

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
65.55	29.73	95.28	96.96	100.46	103.71

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.98	29.73	90.71	92.38	95.88	99.13

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.45	29.73	90.18	91.86	95.36	98.61

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.23	29.73	89.96	91.63	95.13	98.38

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS Rates Expiration Date : 02/28/2021

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
59.63	29.73	89.36	91.03	94.53	97.78

CLASSIFICATIONS:

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)



STATE OF NEW JERSEY
Department of Labor and Workforce Development
Division of Wage and Hour Compliance - Public Contracts Section
PO Box 389
Trenton, NJ 08625-0389

PREVAILING WAGE RATE DETERMINATION

The New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25 et seq.) requires that the Department of Labor and Workforce Development establish and enforce a prevailing wage level for workers engaged in public works in order to safeguard their efficiency and general well being and to protect them as well as their employers from the effects of serious and unfair competition.

Prevailing wage rates are wage and fringe benefit rates based on the collective bargaining agreements established for a particular craft or trade in the locality in which the public work is performed. In New Jersey, these rates vary by county and by the type of work performed.

Applicable prevailing wage rates are those wages and fringe benefits in effect on the date the contract is awarded. All pre-determined rate increases listed at the time the contract is awarded must also be paid, beginning on the dates specified. Rates that have expired will remain in effect until new rates are posted.

Prevailing Wage Rate

The prevailing wage rate for each craft will list the effective date of the rate and the following information:

W = Wage Rate per Hour

B = Fringe Benefit Rate per Hour*

T = Total Rate per Hour

- * Fringe benefits are an integral part of the prevailing wage rate. Employers not providing such benefits must pay the fringe benefit amount directly to the employee each payday. Employers providing benefits worth less than the fringe benefit amount must pay the balance directly to the employee each payday.

Unless otherwise stated in the Prevailing Wage Rate Determination, the fringe benefit rate for overtime hours remains at the straight time rate.

When the Overtime Notes in the Prevailing Wage Rate Determination state that the overtime rates are "inclusive of benefits," the benefit rate is increased by the same factor as the wage rate (i.e. multiplied by 1.5 for time and one-half, multiplied by 2 for double time, etc.).

Apprentice Rate Schedule

An "apprentice" is an individual who is registered with the United States Department of Labor - Office of Apprenticeship and enrolled in a certified apprenticeship program during the period in which they are working on the public works project.

The apprentice wage rate is a percentage of the journeyman wage rate, unless otherwise indicated. The apprentice benefit rate is the full journeyman benefit rate, unless otherwise indicated.

If there is no apprentice rate schedule listed, the individual must be paid at least the journeyman rate even if that individual is in a certified apprentice program for that trade.

If there is no ratio of apprentices to journeymen listed for a particular craft, then the ratio shall be one (1) apprentice to every four (4) journeymen.

Comments/Notes

For each craft listed there will be comments/notes that cover the definition of the regular workday, shift differentials, overtime, recognized holidays, and any other relevant information.

Public Works Contractor Registration

The Public Works Contractor Registration Act (N.J.S.A. 34:11-56.48, et seq.) requires that **all** contractors, subcontractors, or lower tier subcontractors who are working on or who bid on public works projects register with the Department of Labor and Workforce Development. Applications are available at www.nj.gov/labor (click on Wage & Hour and then go to Registration & Permits).

Pursuant to N.J.S.A. 34:11-56.51:

No contractor shall bid on any contract for public work as defined in section 2 of P.L.1963, c. 150 (C.34:11-56.26) unless the contractor is registered pursuant to this act. No contractor shall list a subcontractor in a bid proposal for the contract unless the subcontractor is registered pursuant to P.L.1999, c.238 (C.34:11-56.48 et seq.) at the time the bid is made. No contractor or subcontractor, including a subcontractor not listed in the bid proposal, shall engage in the performance of any public work subject to the contract, unless the contractor or subcontractor is registered pursuant to that act.

Snow Plowing

Snow plowing contracts are not subject to the New Jersey Prevailing Wage Act or the Public Works Contractor Registration Act.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Air Conditioning & Refrigeration - Service and Repair

PREVAILING WAGE RATE

	03/01/18
Journeyman (Mechanic)	W37.98 B23.93 T61.91

Craft: Air Conditioning & Refrigeration - Service and Repair

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
As Shown	Mo. 1-3	Mo. 4-12	2nd Year	3rd Year	4th Year	5th Year		Wage = %	of Jnymn	Wage
Wage and Bene	50%	55%	60%	65%	75%	85%		Bene = %	of Jnymn	Bene

Ratio of Apprentices to Journeymen - 1:4

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 3-1-13:

INTERVAL	PERIOD AND RATES						
As Shown	1st Year	2nd Year	3rd Year	4th Year	5th Year		Wage =% of Jnymn Wage
Wage and Benefit	40%	50%	60%	70%	80%		Bene. =% of Jnymn Wage

Craft: Air Conditioning & Refrigeration - Service and Repair

COMMENTS/NOTES

THESE RATES MAY BE USED FOR THE FOLLOWING:

- Service/Repair/Maintenance Work to EXISTING facilities.
- Replacement or Installation of air conditioning and refrigeration equipment when the combined tonnage does not exceed 15 tons for refrigeration, or 25 tons for air conditioning.
- Replacement or Installation of "packaged" or "unitary" rooftop-type units when the combined tonnage of the units does not exceed 75 tons.

NOTE: These rates may NOT be used for any work in new construction (including work on new additions).

The regular workday shall consist of 8 hours, starting between 6:00 AM and 10:00 AM, Monday through Friday.

SHIFT DIFFERENTIALS:

- The second and third shifts shall be paid an additional 15% of the hourly rate.
- All shifts must run for a minimum of 5 consecutive days.

OVERTIME:

Hours worked in excess of 8 per day or before or after the regular workday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - SUSSEX

Craft: Boilermaker

PREVAILING WAGE RATE

	01/01/18
Foreman	W49.50 B42.52 T92.02
General Foreman	W51.50 B43.50 T95.00
Journeyman	W44.50 B40.92 T85.42

Craft: Boilermaker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	65%	70%	75%	80%	85%	90%	95%			
Benefit =	34.83	35.70	36.58	37.44	38.32	39.19	40.05			

Ratio of Apprentices to Journeymen - *

* 1 apprentice will be allowed for the first 5 journeymen, 1 apprentice for the next 10 journeymen and 1 apprentice for each succeeding 20 journeymen up to a maximum of 5 apprentices per contractor on any one job.

Craft: Boilermaker

COMMENTS/NOTES

HIGH WORK: All apprentices working on the erection, repair, or dismantling of smoke stacks, standpipes, or water towers shall be paid the Journeyman rate.

The regular workday shall consist of 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall work 7½ hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 10%.
- The third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 20%.
- For "Municipal Water Works" projects only, the following shall apply: Two, four day, 10 hour shifts may be worked at straight time Monday through Thursday. The day shift shall work four days, at 10 hours, for 10 hours pay. The second shift shall work four days, at nine and a half hours, for 10 hours pay, plus 10% the hourly rate for new work and .25 cents on repair work. Friday may be used as a make-up day at straight time, due to weather conditions, holiday or any other circumstances beyond the employer's control.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.
- If any other craft employed by the same contractor, or a subcontractor thereof, receives double time in lieu of time and one-half, then the Boilermaker shall receive double time in lieu of time and one-half.
- For "Municipal Water Works" projects only, the following shall apply: Four 10 hour days may be worked Monday through Thursday at straight time. Friday may be used as a make-up day for a day lost to inclement weather, holiday or other conditions beyond the control of the employer. Overtime shall be paid for any hours that exceed 10 hours per day or 40 hours per week.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Boilermaker - Minor Repairs

PREVAILING WAGE RATE

	01/01/18
Foreman	W33.54 B16.17 T49.71
General Foreman	W34.04 B16.17 T50.21
Mechanic	W32.04 B16.17 T48.21

Craft: Boilermaker - Minor Repairs

COMMENTS/NOTES

NOTE: These rates apply to MINOR REPAIR WORK ONLY (repair work in the field for which the contract amount does not exceed \$125,000.00).

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Bricklayer, Stone Mason

PREVAILING WAGE RATE

	05/01/17	05/01/18
Deputy Foreman	W44.10 B31.94 T76.04	W0.00 B0.00 T78.23
Foreman	W47.10 B31.94 T79.04	W0.00 B0.00 T81.23
Journeyman	W41.10 B31.94 T73.04	W0.00 B0.00 T75.23

Craft: Bricklayer, Stone Mason

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%	55%	60%	65%	70%	75%	80%		
Benefits	3.72	4.65	5.12	5.58	20.48	21.83	23.18	24.52		

Ratio of Apprentices to Journeymen - 1:5

Craft: Bricklayer, Stone Mason

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 5-1-17:

INTERVAL	PERIOD AND RATES								
6 Months	40%	50%	55%	60%	65%	70%	75%	80%	
Benefits	3.80	4.75	5.23	5.70	21.16	22.55	23.95	25.33	

The regular workday shall consist of 8 hours, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the first, or day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 10%, inclusive of benefits.

OVERTIME:

- The first 2 hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. The first 10 hours on Saturday shall be paid at time and one-half the

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

- Saturday may be used as a make-up day for hours lost to inclement weather.

- When Bricklayers/Stone Masons work on Saturday with Laborers, and no other crafts are working on the project for the day, benefits may be paid at straight time. If other crafts are present, the applicable overtime rate for benefits shall be paid.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Carpenter

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Foreman	W55.11 B31.41 T86.52	W0.00 B0.00 T87.29	W0.00 B0.00 T88.54
Journeyman	W47.92 B27.31 T75.23	W0.00 B0.00 T76.48	W0.00 B0.00 T77.73

Craft: Carpenter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57% of	Appren	tice	Wage Rate	for all	intervals				

Ratio of Apprentices to Journeymen - 1:3

Craft: Carpenter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Carpenter - Resilient Flooring

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Foreman	W55.11 B31.41 T86.52	W0.00 B0.00 T87.29	W0.00 B0.00 T88.54
Journeyman	W47.92 B27.31 T75.23	W0.00 B0.00 T76.48	W0.00 B0.00 T77.73

Craft: Carpenter - Resilient Flooring

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57%	of	Appren	tice	Wage Rate	for all	intervals			

Ratio of Apprentices to Journeymen - *

* 1 apprentice shall be allowed to every 2 journeymen or major fraction thereof. No more than 3 apprentices on any one job or project.

Craft: Carpenter - Resilient Flooring

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job where there are 4 or more Carpenters of Resilient Flooring, 1 must be designated a Foreman.

FOR SYNTHETIC TURF INSTALLATION ONLY:

- The rate shall be 90% of the wage and benefit rate.

The regular workday consists of 8 hours, starting between 6:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular wage rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular wage rate, the second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.

OVERTIME:

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - SUSSEX

Craft: Cement Mason PREVAILING WAGE RATE

See "Bricklayer, Stone Mason" Rates

Craft: Cement Mason APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									

Ratio of Apprentices to Journeymen - 1:4

Craft: Cement Mason COMMENTS/NOTES

See "Bricklayer, Stone Mason" Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Diver

PREVAILING WAGE RATE

	12/13/17	05/01/18	11/01/18
Diver	W57.54 B45.57 T103.11	W0.00 B0.00 T104.36	W0.00 B0.00 T105.61
Tender	W45.80 B45.57 T91.37	W0.00 B0.00 T92.62	W0.00 B0.00 T93.87

Craft: Diver

COMMENTS/NOTES

NOTE: All dive crews must consist of a Tender, a Diver, and a standby Diver (standby Diver is the same rate as a Diver).

DEPTH & PENETRATION RATES: Divers shall be paid the following depth and penetration rates, in addition to the regular hourly rate, when applicable:

AIR DIVES:

0-59 feet: No additional wage
60-74 feet: + \$0.25 per foot
75-125 feet: + \$0.78 per foot

MIXED GAS DIVES:

0-74 feet: No additional wage
75-125 feet: + \$1.00 per foot
126-200 feet: + \$2.00 per foot

PENETRATION DIVES:

126-200 feet: + \$1.50 per foot
201-275 feet: + \$1.75 per foot
276-350 feet: + \$2.00 per foot
351-425 feet: + \$2.50 per foot

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Dockbuilder

PREVAILING WAGE RATE

	12/13/17	05/01/18	11/01/18
Foreman	W52.67 B45.57 T98.24	W0.00 B0.00 T99.24	W0.00 B0.00 T100.49
Foreman (Concrete Form Work)	W51.87 B32.46 T84.33	W0.00 B0.00 T85.35	W0.00 B0.00 T86.60
Journeyman	W45.80 B45.57 T91.37	W0.00 B0.00 T92.62	W0.00 B0.00 T93.87
Journeyman (Concrete Form Work)	W45.10 B32.46 T77.56	W0.00 B0.00 T78.81	W0.00 B0.00 T80.06

Craft: Dockbuilder

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	18.32	22.90	29.77	36.64						
Benefit	30.57	for all	intervals							

Ratio of Apprentices to Journeymen - *

* When there are 4 or fewer Dockbuilders on a job, no more than 1 may be an apprentice. When there are 5 or more Dockbuilders, there may be 1 apprentice for every 5 Dockbuilders.

Craft: Dockbuilder

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL	PERIOD AND RATES			
Yearly	18.04	22.55	29.32	36.08
Benefits	22.46 for all intervals			

CREOSOTE HANDLING:

When handling creosote products on land piledriving, floating marine construction, and construction of wharves, the worker shall receive an additional \$0.25 per hour.

HAZARDOUS WASTE WORK:

- Hazardous waste removal work on a state or federally designated hazardous waste site where Level A, B, or C personal protection is required: an additional 20% of the hourly rate, per hour.
- Hazardous waste removal work in Level D, or where personal protection is not required: an additional \$1.00 per hour.

CERTIFIED WELDER: When required on the job by the project owner, a Certified Welder shall receive an additional \$1.00 per hour.

FOREMAN REQUIREMENTS:

The first Dockbuilder on the job shall be designated a Foreman.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Drywall Finisher

PREVAILING WAGE RATE

	05/01/17
Foreman	W43.45 B23.60 T67.05
General Foreman	W45.43 B23.60 T69.03
Journeyman	W39.50 B23.60 T63.10

Craft: Drywall Finisher

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits	Intervals	1 to 3 =	9.85	Intervals	4 to 6 =	12.28	Intervals	7 to 9 =	14.95	

Ratio of Apprentices to Journeymen - 1:4

Craft: Drywall Finisher

COMMENTS/NOTES

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Electrician

PREVAILING WAGE RATE

	05/29/17	05/28/18
Cable Splicer	W60.08 B34.53 T94.61	W61.52 B35.35 T96.87
Foreman	W61.17 B35.15 T96.32	W62.64 B35.98 T98.62
Journeyman	W54.62 B31.39 T86.01	W55.93 B32.13 T88.06

Craft: Electrician

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	49%	58%	68%	80%		of Jour	neyman	Wage	Rate
Benefit	40%	49%	58%	68%	80%		of Jour	neyman	Benefit	Rate

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician

COMMENTS/NOTES

THESE RATES ALSO APPLY TO THE FOLLOWING:

- All burglar and fire alarm work.
- All fiber optic work.
- Teledata work in new construction.
- Teledata work involving 16 Voice/Data Lines or more.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

- On any job where there are 1 to 10 Journeymen electricians, 1 shall be designated a Foreman.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

PREVAILING WAGE RATE

	11/15/17	10/29/18	10/28/19	11/02/20
Master	W53.52	W54.86	W56.16	W57.42
Technician/General	B29.43	B30.17	B30.89	B31.58
Foreman	T82.95	T85.03	T87.05	T89.00
Senior Technician/Lead	W48.99	W50.22	W51.41	W52.56
Foreman	B26.94	B27.62	B28.27	B28.91
(21-30 Workers on Job)	T75.93	T77.84	T79.68	T81.47
Technician A/Foreman	W46.93	W48.11	W49.25	W50.35
(11-20 Workers on Job)	B25.81	B26.46	B27.08	B27.69
	T72.74	T74.57	T76.33	T78.04
Technician B/Working	W44.88	W46.00	W47.09	W48.15
Foreman	B24.67	B25.30	B25.90	B26.47
(4-10 Workers on Job)	T69.55	T71.30	T72.99	T74.62
Technician C/Journeyman	W41.17	W42.20	W43.20	W44.17
(1-3 Workers on Job)	B22.64	B23.21	B23.76	B24.29
	T63.81	T65.41	T66.96	T68.46

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months					66%	72%	79%	86%		
Benefits					11.81	12.89	14.14	15.40		

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 10-31-14:

INTERVAL	PERIOD AND RATES										
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%	
Benefits	6.76	6.76	7.16	7.70	8.59	9.66	10.82	11.99	13.25	14.51	

NOTES:

- These rates are for service, maintenance, moves, and/or changes affecting 15 Voice/Data (teledata) lines or less. These rates may NOT be used for any teledata work in new construction (including additions) or any fiber optic work.
- The number of Teledata workers on the jobsite is the determining factor for which Foreman category applies .

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Electrician - Teledata (16 Instruments & More)

PREVAILING WAGE RATE

See "Electrician" Rates

Craft: Electrician - Teledata (16 Instruments & More)

COMMENTS/NOTES

See ELECTRICIAN Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Electrician- Outside Commercial

PREVAILING WAGE RATE

	05/29/17	05/28/18
Cable Splicer	W60.37 B34.24 T94.61	W61.82 B35.06 T96.88
Certified Welder	W57.62 B32.68 T90.30	W59.01 B33.47 T92.48
Equipment Operator	W54.88 B31.13 T86.01	W56.20 B31.88 T88.08
Foreman (1-10 Journeyman workers on job)	W61.47 B34.86 T96.33	W62.94 B35.70 T98.64
Foreman (11-20 Journeyman workers on job)	W63.11 B35.79 T98.90	W64.63 B36.66 T101.29
General Foreman (21-30 Journeyman workers on job)	W64.76 B36.73 T101.49	W66.32 B37.61 T103.93
General Foreman (31-60 Journeyman workers on job)	W70.25 B39.84 T110.09	W71.94 B40.80 T112.74
General Foreman (61+ Journeyman workers on job)	W71.34 B40.46 T111.80	W73.06 B41.44 T114.50
Groundman	W32.93 B18.68 T51.61	W33.72 B19.13 T52.85
Journeyman Lineman/Technician	W54.88 B31.13 T86.01	W56.20 B31.88 T88.08
Sub-Foreman	W61.47 B34.86 T96.33	W62.94 B35.70 T98.64

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Electrician- Outside Commercial

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	56.4% of	Journey	man	wage	+ \$.01					

Craft: Electrician- Outside Commercial

COMMENTS/NOTES

EFFECTIVE 5-30-16- The apprentice benefit rate shall be 56.7% + \$.01.

EFFECTIVE 5-29-17- The apprentice benefit rate shall be 56.7% + \$.01.

EFFECTIVE 5-28-18- The apprentice benefit rate shall be 56.7% + \$.01.

* FOR UTILITY WORK PLEASE SEE STATEWIDE RATES

The regular worday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

On jobs where there are 2 Journeymen, one shall be a Foreman. The following number of Foreman, General Foreman, Assistant General Foreman and Sub-Foreman shall be required with respect to number of Journeymen on site:

2-10 Journeymen (1 Foreman)

11-20 Journeymen (1 Foreman and 1 Sub-Foreman)

21-30 Journeymen (1 Foreman and 2 Sub-Foremen)

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, inclusive of benefits.

3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate per hour, inclusive benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Electrician-Utility Work (North)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (North)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
* 6 Months	60%	65%	70%	75%	80%	85%	90%			
Benefits	67% of	Appren	tice	Wage	Rate	for all	intervals			

Craft: Electrician-Utility Work (North)

COMMENTS/NOTES

Electrician-Utility Work (North) rates are located in the "Statewide" rate package.

* The apprentice wage rate is paid at the percentage of the Journeyman Lineman wage rate located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Electrician-Utility Work (South)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (South)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	28.24	30.60	32.95	35.30	37.66	40.01	42.36			
Benefits	24.29	25.67	27.03	28.40	29.77	31.13	32.51			

Craft: Electrician-Utility Work (South)

COMMENTS/NOTES

Electrician-Utility Work (South) rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Elevator Constructor

PREVAILING WAGE RATE

	03/17/17	03/17/18
Journeyman	W62.64 B41.56 T104.20	W64.48 B43.36 T107.84

Craft: Elevator Constructor

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	27.95	34.45	40.72	46.98						
Benefits	33.31	34.46	36.04	37.61						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Constructor

COMMENTS/NOTES

The regular workday shall consist of either 7 or 8 hours to be established at the beginning of the project, between 7:00 AM and 4:30 PM.

OVERTIME:

For all hours worked before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday, shall be paid at double the hourly rate. Holiday pay is one days wages (8 hours) plus double the hourly rate for all hours worked.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Elevator Modernization & Service

PREVAILING WAGE RATE

	03/17/17	03/17/18
Journeyman	W49.14 B39.91 T89.05	W50.49 B41.66 T92.15

Craft: Elevator Modernization & Service

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	27.95	27.03	31.94	36.86						
Benefits	33.23	33.57	34.97	36.37						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Modernization & Service

COMMENTS/NOTES

MODERNIZATION (addition, replacement, refurbishing, relocation, or changes in design or appearance, of elevator equipment in existing buildings):

- The regular workday consists of 8 hours, between 7:00 AM and 4:30 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday shall be paid at time and one-half the hourly rate. Holiday pay is one days wages (8 hours) plus time and one-half the hourly rate for all hours worked.

SERVICE (repair or replacement of parts for the purpose of maintaining elevator equipment in good operating condition):

- The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS (Modernization and Service): New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Glazier

PREVAILING WAGE RATE

	05/25/17	05/01/18	05/01/19
Foreman	W48.81 B23.62 T72.43	W50.81 B23.62 T74.43	W52.81 B23.62 T76.43
General Foreman	W50.81 B23.75 T74.56	W52.81 B23.75 T76.56	W54.81 B23.75 T78.56
Journeyman	W44.81 B23.36 T68.17	W46.81 B23.36 T70.17	W48.81 B23.36 T72.17

Craft: Glazier

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	50%	55%	60%	65%	70%	75%	80%	90%		
Benefits	8.85	8.85	11.46	11.46	12.88	12.88	16.37	16.37		

Ratio of Apprentices to Journeymen - 1:4

Craft: Glazier

COMMENTS/NOTES

Hazard/Height Pay: +\$1.00 per hour

FOREMAN REQUIREMENTS:

- When there are 4 or more Glaziers on a job, 1 must be designated a Foreman.
- When there are 15 or more Glaziers on a job, 1 must be designated a General Foreman.

The regular workday shall consist of 8 hours, between 7:00 AM and 5:30 PM, Monday to Friday.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Heat & Frost Insulator

PREVAILING WAGE RATE

	09/27/17
Foreman	W53.77 B31.17 T84.94
General Foreman	W56.32 B32.28 T88.60
Journeyman	W52.49 B30.61 T83.10

Craft: Heat & Frost Insulator

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	24.40	28.94	34.95	40.96						
Benefits	18.33	21.68	23.89	25.96						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator

COMMENTS/NOTES

NOTE: These rates apply to the installing of insulation on hot and cold mechanical systems.

The regular workday shall be 8 hours between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 consecutive workdays.
- Second Shift shall work 7.5 hours and receive 8 hours pay, at the regular rate, plus 25% per hour.
- Third Shift shall work 7 hours and receive 8 hours pay, at the regular rate, plus 30% per hour.

OVERTIME:

The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Heat & Frost Insulator - Asbestos Worker

PREVAILING WAGE RATE

	09/27/17
Asbestos Helper Abatement	W34.42 B23.37 T57.79

Craft: Heat & Frost Insulator - Asbestos Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	HEAT &	FROST	INSULAT OR						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator - Asbestos Worker

COMMENTS/NOTES

NOTE: These rates apply only to the removal of insulation materials/asbestos from mechanical systems, including containment erection and demolition, and placing material in appropriate containers.

The regular workday shall be 8 hours between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- The second shift shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 25% per hour.
- The third shift shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

OVERTIME: The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Ironworker

PREVAILING WAGE RATE

	07/01/17
Rod /Fence Foreman	W43.49 B45.02 T88.51
Rod/Fence Journeyman	W40.49 B45.02 T85.51
Structural Foreman	W45.54 B45.02 T90.56
Structural Journeyman	W42.54 B45.02 T87.56

Craft: Ironworker

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	50%	60%		Yearly	70%	80%	90%			

Ratio of Apprentices to Journeymen - 1:4

Craft: Ironworker

COMMENTS/NOTES

HAZARDOUS WASTE WORK: On hazardous waste removal work on a state or federally designated hazardous waste site where the Ironworker is required to wear Level A,B, or C personal protection: + \$3.00 per hour

The regular workday consists of 8 hours between 6:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

When there are 2 or more Ironworkers on a job, 1 shall be designated a Foreman.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule is established, the first, or day shift , shall be established on an 8 hour basis .The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15%, and the third shift shall receive the regular rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis.
- When an irregular shift is established for the Ironworker (Structural) classification, the rate shall be paid at time and one-half the regular rate, inclusive of benefits. When an irregular shift is established for the Rod/Fence classification, the shift shall be established on an 8 hour basis and receive the regular rate, plus 20%.

OVERTIME:

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - SUSSEX

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits. Saturday may be used as a make-up day for a day lost to inclement weather. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits.

- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Laborer - Asbestos & Hazardous Waste Removal

PREVAILING WAGE RATE

	01/26/17
Journeyman (Handler)	W30.88 B21.91 T52.79

Craft: Laborer - Asbestos & Hazardous Waste Removal

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	18.53	21.62	24.70	27.79						
Benefit	20.26	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Asbestos & Hazardous Waste Removal

COMMENTS/NOTES

NOTE: These rates apply to work in connection with Asbestos, Radiation, Hazardous Waste, Lead, Chemical, Biological, Mold Remediation and Abatement.

The regular workday shall be 8 hours.

OVERTIME:

- Hours in excess of 8 per day, Monday through Saturday, and all hours on Sunday and holidays shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Good Friday, Easter, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. (Holidays start at 12:00 am).

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Laborer - Building

PREVAILING WAGE RATE

	11/01/17	05/01/18
Class A Journeyman	W32.90 B28.02 T60.92	W0.00 B0.00 T62.57
Class B Journeyman	W32.40 B28.02 T60.42	W0.00 B0.00 T62.07
Class C Journeyman	W27.54 B28.02 T55.56	W0.00 B0.00 T57.45
Foreman	W37.01 B28.02 T65.03	W0.00 B0.00 T66.48
General Foreman	W41.13 B28.02 T69.15	W0.00 B0.00 T70.40

Craft: Laborer - Building

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	60%	70%	80%	90%						
Benefit	24.77	24.77	24.77	24.77						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Building

COMMENTS/NOTES

CLASS A: Specialist laborer including mason tender or concrete pour crew; scaffold builder (scaffolds up to 14 feet in height); operator of forklifts, Bobcats (or equivalent machinery), jack hammers, tampers, motorized tampers and compactors, vibrators, street cleaning machines, hydro demolition equipment, riding motor buggies, conveyors, burners; and nozzlemen on gunite work.

CLASS B: Basic laborer - includes all laborer work not listed in Class A or Class C.

CLASS C: Janitorial-type light clean-up work associated with the TURNOVER of a project, or part of a project, to the owner. All other clean-up work is Class B.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- When a 2-shift schedule is worked, including a day shift, both shifts shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%.
- When a 3-shift schedule is worked, the day shift shall be established on the basis of 8 hours pay for 8 hours worked, the second shift shall be established on the basis of 8 hours pay for 7.5 hours worked, and the third shift shall be established

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - SUSSEX

on the basis of 8 hours pay for 7 hours worked. The day shift shall receive the regular rate, the second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When a second or third shift is worked with no day shift, the second or third shift shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

OVERTIME:

- Hours in excess of 8 per day, or outside the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. Saturday may be used as a make-up day (paid at straight time) for a day lost to inclement weather, or for a holiday that is observed during the work week, Monday through Friday. All hours on Sundays and holidays shall be paid at double the regular rate.

- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.

- Benefits on ALL overtime hours shall be paid at time and one-half.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Laborer - Heavy & General

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Laborer - Heavy & General

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	19.53	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* No more than 1 apprentice for the first journeyman and no more than 1 apprentice for each additional 3 journeymen.

Craft: Laborer - Heavy & General

COMMENTS/NOTES

As of 3-1-18, benefits shall be \$20.23.
As of 9-1-18, benefits shall be \$20.28.
As of 3-1-19, benefits shall be \$21.03.
As of 3-1-20, benefits shall be \$21.78.

Heavy & General Laborer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Laborer-Residential and Modular Construction

PREVAILING WAGE RATE

	04/01/17
* Skilled Tradesman (only applies to Modular Construction)	W25.55 B5.45 T31.00
Foreman (person directing crew, regardless of his skill classification)	W25.55 B5.45 T31.00
Laborer	W21.55 B5.45 T27.00
Laborer (for single family and stand-alone duplex owned by single owner)	W17.05 B2.95 T20.00

Craft: Laborer-Residential and Modular Construction

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
As shown	800 hours	600 hours	600 hours							
wage & benefits	70%	80%	90%							

Ratio of Apprentices to Journeymen-

One (1) apprentice shall be allowed for the first journeyman on site and no more than one (1) additional apprentice for each additional three (3) journeymen on site.

Craft: Laborer-Residential and Modular Construction

COMMENTS/NOTES

*** SKILLED TRADESMAN-**

any worker doing work not typically done by a Building Laborer. Some examples are installing interior doors, sheet rock, hooking up appliances, installing light fixtures, installing railing systems, etc. Please note where local building codes require that certain work be performed under the supervision of a licensed tradesman (i.e. Plumber, Electrician, etc.) Laborers shall work under such supervision.

RESIDENTIAL CONSTRUCTION- All residential construction (not commercial), single-family, stand-alone duplex houses, townhouses and multi-family buildings of not more than four (4) floors, including basement levels. Please note the construction must be residential in nature for ALL FLOORS at an elevation of no more than FOUR (4) FLOORS, INCLUDING BASEMENT. In addition, barracks and dormitories are not considered residential projects.

MODULAR RESIDENTIAL CONSTRUCTION- all aspects of modular residential construction (not commercial) at the site of installation of structures of no more than four (4) stories, including all excavation and site preparation, footings and foundation systems whether poured on-site or prefabricated, all underground waterproofing, underground utilities, concrete slabs, sidewalks, driveways, paving, hardscape and landscaping. Please note the construction must be residential in nature for ALL STORIES at an elevation of no more than FOUR (4) STORIES. All work performed by the Set Crew (the crew of workers who set the modular boxes on the foundation), including the rigging, setting, attaching and assembly of all modules and structural members, preparation of the foundation to accept modules, such as sill plates, connection of all in-module and under-module connections including, but not limited to, plumbing, electrical, HVAC, fire suppression, CATS,

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

telephone, television/internet, and fiber optic, the building or installation of any porches or decks regardless of material or method of construction, the on-site installation of, or completion of any roof system, doors, windows and fenestrations, including flashing, gutter and soffit systems, waterproofing, insulation and interior and exterior trim work, and painting. Please note that modular construction does not include on-site stick built construction, tip up construction or panel built construction.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

OVERTIME:

Hours worked in excess of 8 per day/40 per week, Monday through Saturday, and all hours worked on Sunday and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOILDAYS:

New Year's Day, Martin Luther King Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Millwright

PREVAILING WAGE RATE

	11/01/17
Foreman	W55.21 B32.62 T87.83
Journeyman	W48.01 B28.44 T76.45

Craft: Millwright

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%
Benefits	58% of	Appren	tice	Wage	Rate	for all	intervals	+ \$.60		

Ratio of Apprentices to Journeymen - 1:3

Craft: Millwright

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Millwrights on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Millwrights on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Operating Engineer

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	60%	70%	80%	90%						

Ratio of Apprentices to Journeymen - *

* 1 apprentice for each piece of heavy equipment. At least 10 pieces of heavy equipment or a minimum of 5 Operating Engineers must be on site.

Craft: Operating Engineer

COMMENTS/NOTES

Operating Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Operating Engineer - Field Engineer

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer - Field Engineer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	70%	75%	of Rod/	Chainman	Wage					
Yearly			80%	90%	Transit/	Instrument	man	Wage		

Ratio of Apprentices to Journeymen - *

* No more than 1 Field Engineer Apprentice per Survey Crew.

Craft: Operating Engineer - Field Engineer

COMMENTS/NOTES

Operating Engineer - Field Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Painter - Bridges

PREVAILING WAGE RATE

	05/04/17
Foreman	W59.13 B27.67 T86.80
General Foreman	W61.13 B27.67 T88.80
Journeyman	W54.13 B27.67 T81.80

Craft: Painter - Bridges

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%			60%	70%		80%	90%	
Benefits	Intervals	1 to 2 =	8.88	Intervals	3 to 4 =	10.81	Intervals	5 to 6 =	13.48	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Bridges

COMMENTS/NOTES

These rates apply to: All bridges that span waterways, roadways, railways and canyons. All tunnels, overpasses, viaducts and all appurtenances.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Painter - Line Striping

PREVAILING WAGE RATE

	12/01/17
Apprentice (1st year)	W25.45 B11.00 T36.45
Apprentice (2nd year)	W29.45 B18.00 T47.45
Foreman (Charge Person)	W37.60 B18.17 T55.77
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W33.33 B18.17 T51.50
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W37.10 B18.17 T55.27

Craft: Painter - Line Striping

COMMENTS/NOTES

OVERTIME:

Hours in excess of 8 per day, Monday through Saturday, and all hours on
Sundays and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day,
Thanksgiving Day and Christmas Day. Veterans Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Painter - New Construction

PREVAILING WAGE RATE

	08/03/17
Foreman	W43.18 B23.26 T66.44
General Foreman	W47.10 B23.51 T70.61
Journeyman	W39.25 B23.01 T62.26

Craft: Painter - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits							11.00	11.00	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	55%	65%	70%	75%	80%	90%
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Painter - Repainting

PREVAILING WAGE RATE

	05/26/17
Foreman	W31.95 B19.38 T51.33
General Foreman	W34.86 B19.51 T54.37
Journeyman	W29.05 B19.26 T48.31

Craft: Painter - Repainting

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	NEW	CONSTR	TION					
				UC						

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Repainting

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations (only doing painting and carpeting with nothing else being changed in the office or on the project) occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tank, or generating stations.

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Painter- Containment

PREVAILING WAGE RATE

	05/04/17
Journeyman	W35.18 B24.75 T59.93

Craft: Painter- Containment

COMMENTS/NOTES

NOTE: These rates shall require no painting, but used in a supporting capacity only, such as wrapping, boxing, fencing, etc. on tanks.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate..
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Painter-Elevated Water Tanks

PREVAILING WAGE RATE

	05/04/17
Foreman	W48.92 B24.92 T73.84
General Foreman	W50.92 B24.92 T75.84
Journeyman	W43.92 B24.92 T68.84

Craft: Painter-Elevated Water Tanks

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Elevated Water Tanks

COMMENTS/NOTES

These rates apply to: All new and repaint elevated water tanks (interior and exterior).

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

PREVAILING WAGE RATE DETERMINATION

County - SUSSEX

Craft: Painter-Structural Steel

PREVAILING WAGE RATE

	05/04/17
Foreman	W47.87 B25.27 T73.14
General Foreman	W49.87 B25.27 T75.14
Journeyman	W42.87 B25.27 T68.14

Craft: Painter-Structural Steel

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Structural Steel

COMMENTS/NOTES

These rates apply to: All work in power plants (any aspect). On steeples, on dams, on hangers, transformers, substations, etc. and on open steel, whether new or repaint. All new work (excluding traditional commercial painting work) in refineries, tank farms, water/sewerage treatment facilities and on pipelines.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Paperhanger - New Construction

PREVAILING WAGE RATE

	05/26/17
Foreman	W44.20 B23.33 T67.53
Journeyman	W40.19 B23.07 T63.26

Craft: Paperhanger - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits							11.00	11.00	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	55%	65%	70%	75%	80%	90%
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Paperhanger - Renovation

PREVAILING WAGE RATE

	05/26/17
Foreman	W32.80 B19.42 T52.22
Journeyman	W29.82 B19.29 T49.11

Craft: Paperhanger - Renovation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAPER-	HANGER	NEW	CONSTR UC	TION				

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - Renovation

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tanks, or generating stations.

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Pipefitter

PREVAILING WAGE RATE

	05/09/17	05/01/18	05/01/19
Foreman	W55.24 B33.94 T89.18	W0.00 B0.00 T91.40	W0.00 B0.00 T93.62
Journeyman	W51.56 B33.94 T85.50	W0.00 B0.00 T87.72	W0.00 B0.00 T89.94

Craft: Pipefitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	18.05	23.20	28.36	33.51	38.67					
Benefit	22.41	24.19	25.96	27.74	29.50					

Ratio of Apprentices to Journeymen - 1:5

Craft: Pipefitter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- The first Pipefitter on a job must be a Foreman.
- There must be a Foreman for every 6 Pipefitters on a job, not counting apprentices.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (between 4:00PM and 12:00AM) shall work 7.5 hours and receive 8 hours pay at the hourly rate, plus 25% per hour.
- 3rd Shift (between 12:00AM and 8:00AM) shall work 7 hours and receive 8 hours pay at the hourly rate, plus 30% per hour.

OVERTIME:

- The first 2 hours in excess of 8 per day or outside of the regular workday, Monday through Friday, and the first 8 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 10 per day, Monday through Friday, in excess of 8 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked at straight time, Monday through Thursday, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, the first 10 hours on Friday shall be paid at time and one-half, inclusive of benefits. All remaining overtime shall be paid as stated above.

SHIFT DIFFERENTIALS - SERVICE & MAINTENANCE WORK:

- The 2nd shift shall work 7.5 hours and receive 8 hours pay at the hourly rate, plus 10% per hour.
- The 3rd shift shall work 7 hours and receive 8 hours pay at the hourly rate, plus 15% per hour.

OVERTIME - SERVICE & MAINTENANCE WORK:

- All hours outside of the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

one-half, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

NOTE: Service and Maintenance work is work to repair, restore, or improve the efficiency of existing facilities. This does NOT apply to ANY new construction.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Plasterer

PREVAILING WAGE RATE

See Bricklayer, Stone Mason Rates

Craft: Plasterer

COMMENTS/NOTES

See BRICKLAYER, STONE MASON Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Plumber

PREVAILING WAGE RATE

	05/01/17
Foreman	W56.87 B33.84 T90.71
General Foreman	W60.56 B33.84 T94.40
Journeyman	W52.66 B33.84 T86.50

Craft: Plumber

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	30%	45%	55%	65%	75%					
Benefit	10.15	15.23	18.61	22.00	25.38					

Ratio of Apprentices to Journeymen - *

* Employers may employ 1 apprentice on any job where 1 or 2 journeymen are employed. Thereafter, 1 apprentice may be employed for every 4 journeymen..

Craft: Plumber

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job having 2 or more Plumbers, 1 must be designated a Foreman.
- On any job having 9 or more Plumbers, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must continue for a minimum of 5 consecutive workdays.
- When two shifts are worked, the second shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 10%, inclusive of benefits.
- When a third shift is worked, the third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 15%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays, shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Roofer

PREVAILING WAGE RATE

	06/02/17
Foreman	W37.02 B25.78 T62.80
Journeyman	W36.02 B25.78 T61.80

Craft: Roofer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	14.40	18.01	21.61	25.21	28.82	32.42				
Benefits	2.13	2.13	23.03	23.03	23.03	23.03				

Ratio of Apprentices to Journeymen - *

* [A] For roofing jobs that are of the 1 or single ply nature: 1:2 or fraction thereof

[B] For roofing jobs on new built up roofs: 1:3 or fraction thereof

[C] For roofing jobs that are of tear-off nature: 1:2 or fraction thereof

[D] For re-roofing jobs {nor requiring complete removal of existing systems; installation done over existing roof}: 1:3 or fraction thereof

Craft: Roofer

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 4-1-17:

INTERVAL	PERIOD AND RATES								
6 Months	14.40	18.01	21.61	23.41	25.21	27.01	28.82	32.42	
Benefits	2.13	2.13	23.03	23.03	23.03	23.03	23.03	23.03	

Pitch: +.50 per hour

Mop Man: +.30 per hour

The regular workday consists of 8 hours between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Sheet Metal Sign Installation

PREVAILING WAGE RATE

	10/01/17
Foreman	W34.79 B32.89 T67.68
Journeyman	W33.54 B32.89 T66.43

Craft: Sheet Metal Sign Installation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 hours	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%
Benefits	10.44	11.89	13.34	14.82	16.68	18.17	19.66	21.16	22.65	24.14

Ratio of Apprentices to Journeymen - 1:3

Craft: Sheet Metal Sign Installation

COMMENTS/NOTES

FOREMAN REQUIREMENT:

When there are 6 or more Sheet Metal Sign Installers on a job, 1 shall be designated a Foreman.

The regular workday consists of 8 hours, between 7:00 AM and 3:30 PM.

OVERTIME:

Hours before or after the regular workday, Monday through Friday, and all hours worked on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

Four(4) 10 hour days may be worked, Monday through Friday, at straight time, for projects lasting at least one week in duration. The fifth day may be used as a make-up day at straight time for a day lost due to inclement weather. However, if the fifth day is not a make-up day, all hours worked will be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Sheet Metal Worker

PREVAILING WAGE RATE

	07/07/17
Foreman	W49.95 B41.27 T91.22
General Foreman	W50.95 B41.27 T92.22
Journeyman	W46.45 B41.27 T87.72

Craft: Sheet Metal Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	35%	45%	55%	65%	of	Journey	man	Wage	Rate	
Benefit	35%	45%	55%	65%	of	Journey	man	Benefit	Rate	

Ratio of Apprentices to Journeymen - 1:4

Craft: Sheet Metal Worker

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Sheet Metal Workers on a project, 1 must be designated a Foreman.
- When there are 17 or more Sheet Metal Workers on a project, 1 must be designated a General Foreman.
- When there is only 1 Sheet Metal Worker (1 Journeyman) on a project, he/she shall receive \$1.00 more than the regular Journeyman's rate.

The regular workday is 8 hours between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM - 12:00 AM) : +17% of regular hourly rate
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, that are not shift work, and the first 10 hours on Saturdays shall be paid at time and one-half of the regular rate, inclusive of benefits. Hours in excess of 10 per day on Saturday, and all hours on Sundays and holidays shall be at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Friday, at straight time, with hours in excess of 10 per day, and hours in excess of 40 per week paid at the overtime rates listed above.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Sprinkler Fitter

PREVAILING WAGE RATE

	04/01/17	04/01/18
Foreman	W51.90 B22.98 T74.88	W53.00 B23.98 T76.98
General Foreman	W54.15 B22.98 T77.13	W55.25 B23.98 T79.23
Journeyman	W49.15 B22.98 T72.13	W50.25 B23.98 T74.23

Craft: Sprinkler Fitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%
Benefits	7.90	7.90	14.87	14.87	14.87	14.87	14.87	14.87	14.87	14.87

Ratio of Apprentices to Journeymen - 1:1

Craft: Sprinkler Fitter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- There must be a Foreman on all projects. If there is only 1 Sprinkler Fitter on the project, he/she shall be designated a Foreman.
- On any job with 22 or more Sprinkler Fitters 1 shall be designated a General Foreman.

The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd and/or 3rd shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Tile Finisher-Marble

PREVAILING WAGE RATE

	01/01/18
Finisher	W46.66 B34.18 T80.84

Craft: Tile Finisher-Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	65%	70%	75%	85%	90%	95%		

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Finisher-Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Tile Setter - Ceramic

PREVAILING WAGE RATE

	12/04/17
Finisher	W44.14 B29.76 T73.90
Setter	W57.27 B33.02 T90.29

Craft: Tile Setter - Ceramic

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Ceramic

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Saturdays after 10 hours shall be paid double the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Tile Setter - Marble

PREVAILING WAGE RATE

	01/01/18
Tile Setter	W58.53 B36.37 T94.90

Craft: Tile Setter - Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	65%	70%	75%	85%	90%	95%		

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Tile Setter - Mosaic & Terrazzo

PREVAILING WAGE RATE

	01/01/18
Grinder or Assistant	W53.45 B34.90 T88.35
Mechanic	W55.05 B34.92 T89.97
Terrazzo Resinous Worker	W45.90 B28.27 T74.17

Craft: Tile Setter - Mosaic & Terrazzo

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	60%	65%	70%	75%	85%	95%	100%	

Ratio of Apprentices to Journeymen - 1:5

Craft: Tile Setter - Mosaic & Terrazzo

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON OR AFTER 1-1-18:

INTERVAL	PERIOD AND RATES							
1500 Hours	35%	45%	60%	70%	80%	90%	100%	

The regular workday consists of 7 hours, between 8:00 AM and 3:30 PM.

OVERTIME:

- Hours in excess of 7 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Monday after Easter, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Truck Driver

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Bucket, Utility, Pick-up, Fuel Delivery trucks	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Dump truck, Asphalt Distributor, Tack Spreader	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Euclid-type vehicles (large, off-road equipment)	W36.98 B34.58 T71.56	W37.41 B35.40 T72.81	W37.81 B35.80 T73.61
Helper on Asphalt Distributor truck	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Slurry Seal, Seeding/Fertilizing/ Mulching truck	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Straight 3-axle truck	W36.88 B34.58 T71.46	W37.31 B35.40 T72.71	W37.71 B35.80 T73.51
Tractor Trailer (all types)	W36.98 B34.58 T71.56	W37.41 B35.40 T72.81	W37.81 B35.80 T73.61
Vacuum or Vac-All truck (entire unit)	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Winch Trailer	W37.08 B34.58 T71.66	W37.51 B35.40 T72.91	W37.91 B35.80 T73.71

Craft: Truck Driver

COMMENTS/NOTES

BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate" which shall be 80% of the above-listed wage rates, plus the full benefit rate. This rate shall be used when the driver "round robins" for a minimum of 6 hours during the work day.

HAZARDOUS WASTE REMOVAL:

- On hazardous waste removal work on a State designated hazardous waste site where the driver is in direct contact with hazardous materials and when personal protective equipment is required for respiratory, skin, and eye protection, the driver shall receive an additional \$3.00 per hour (with or without protective gear).
- A hazardous waste related certified worker at a designated hazardous waste site who is not working in a zone requiring level A, B or C personal protection shall receive an additional \$1.00 per hour.

TRUCK FOREMAN: \$.75 cents per hour above regular rate. Overtime shall be increased accordingly.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

The regular workday shall be 8 hours, starting between 6:00 AM and 8:00 AM.

SHIFT DIFFERENTIAL:

- Shifts starting at 4:00 PM (2nd Shift): + \$2.50 per hour.
- Shifts starting at 12:00 AM (midnight/3rd Shift): time and one-half the hourly rate.
- Shifts starting at a time other than from 6:00 AM to 8:00 AM, when such hours are mandated by the project owner: + \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Employees may work four 10-hour days at straight time, Monday through Thursday, with Friday used as a make-up day for a lost day. If Friday is not a make-up day, then all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day (Decoration Day), July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans' Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Truck Driver-Material Delivery Driver

PREVAILING WAGE RATE

	05/01/12
Driver	W22.90 B10.17 T33.07

Craft: Truck Driver-Material Delivery Driver

COMMENTS/NOTES

BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate". See the "Truck Driver" craft for the blended rates.

Truck Foreman/Shop Steward: +\$0.25 per hour

SHIFT DIFFERENTIALS:

- 2nd Shift shall receive an additional \$0.50 per hour
- 3rd Shift shall receive time and one-half the hourly rate.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day (Decoration Day), July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans' Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - SUSSEX

Craft: Welder

PREVAILING WAGE RATE

Welder

Craft: Welder

COMMENTS/NOTES

Welders rate is the same as the craft to which the welding is incidental .

STATEWIDE RATES

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) * receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumpcrete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Asphalt Curbing Machine

Asphalt Plant Engineer

Asphalt Spreader

Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)

Autograde Curecrete Machine (CMI & similar types)

Autograde Tube Finisher & Texturing Machine (CMI & similar types)

Bar Bending Machines (Power)

Batcher, Batching Plant, & Crusher [On Site]

Belt Conveyor System

Boom-Type Skimmer Machine

Bridge Deck Finisher

Bulldozer (all sizes)

Captain (Power Boats)

Car Dumper (railroad)

Compressor & Blower unit for loading/unloading of concrete,
cement, fly ash, or similar type materials (used independently
or truck-mounted)

Compressor (2 or 3 battery)

Concrete Breaking Machine

Concrete Cleaning/Decontamination Machine

Concrete Finishing Machine

Concrete Saw or Cutter (ride-on type)

Concrete Spreader (Hetzl, Rexomatic & similar types)

Concrete Vibrator

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Conveyors - under 125 feet

Crane Signalman

Crushing Machine

Directional Boring Machine

Ditching Machine - Small (Ditchwitch, Vermeer or similar types)

Dope Pot - Mechanical (with or without pump)

Dumpster

Elevator

Fireman

Fork Lift (Economobile, Lull & similar types)

Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)

Generator (2 or 3 battery)

Giraffe Grinder

Goldhofer/Hydraulic Jacking Trailer

Grader & Motor Patrols

Grout Pump

Gunnite Machine (Excluding nozzle)

Hammer - Vibratory (in conjunction with generator)

Heavy Equipment Robotics - Operator/Technician

Hoist (roof, tugger, aerial platform hoist, house car)

Hopper

Hopper Doors (power operated)

Ladder (motorized)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Laddervator

Locomotive (Dinky-type)

Maintenance Utility Man

Master Environmental Maintenance Technician

Mechanic

Mixer (Except paving mixers)

Pavement Breaker (truck-mounted or small self-propelled
ride-on type)

Pavement Breaker - maintenance of compressor or hydraulic unit

Pipe Bending Machine (power)

Pitch Pump

Plaster Pump (regardless of size)

Post Hole Digger (post pounder, auger)

Rod Bending Machines

Roller (black top)

Scale (power)

Seamen Pulverizing Mixer

Shoulder Widener

Silo

Skimmer Machine (boom type)

Steel Cutting Machine (service & maintenance)

Tamrock Drill

Tractor

Transfer Machines

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System -
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.31	31.70	83.01	84.36	85.36	87.71

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Autograde Pavement Profiler (CMI & similar types)

Autograde Pavement Profiler - Recycle Type (CMI & similar types)

Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)

Autograde Slipform Paver (CMI & similar types)

Backhoe (Excavator)

Central Power Plant

Concrete Paving Machine

Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.

Draglines

Drill, Bauer, AMI and similar types

Drillmaster, Quarrymaster

Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill

Elevator Grader

Field Engineer-Chief of Party

Front End Loader (5 cu. yards or larger)

Gradall

Grader, Rago

Helicopter Co-Pilot

Helicopter Communications Engineer

Juntann Pile Driver

Locomotive (large)

Mucking Machine

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Pavement & Concrete Breaker (Superhammer & Hoe Ram)

Pile Driver

Prentice Truck

Roadway Surface Grinder

Scooper (loader & shovel)

Shovel (Excavator)

Trackhoe (Excavator)

Tree Chopper with boom

Trenching Machine (cable plow)

Tunnel Boring Machine

Vacuum Truck

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Chipper

Compressor (single)

Concrete Spreader (small type)

Conveyor Loader (Except elevator graders)

Engines, Large Diesel (1620 HP) & Staging Pump

Farm Tractor

Fertilizing Equipment (operation & maintenance)

Fine Grade Machine (small type)

Form Line Grader (small type)

Front End Loader (under 1 cubic yard)

Generator (single)

Grease, Gas, Fuel, & Oil Supply Trucks

Heaters (Nelson or other type)

Lights - portable generating light plant

Mixer, Concrete (small)

Mulching Equipment (operation & maintenance)

Power Broom or Sweeper

Pump (diesel engine & hydraulic - regardless of power)

Pump (larger than 2 inch suction, including submersible pumps)

Road Finishing Machine (small type)

Roller - grade, fill, or stone base

Seeding Equipment (operation & maintenance)

Sprinkler & Water Pump Trucks

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including
proprane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and
maintenance)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.39	31.70	84.09	85.44	86.44	88.79

CLASSIFICATIONS:

Helicopter Pilot/Engineer

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.07	31.70	88.77	90.12	91.12	93.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
56.07	31.70	87.77	89.12	90.12	92.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to 139 ft.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.57	31.70	84.27	85.62	86.62	88.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
55.07	31.70	86.77	88.12	89.12	91.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.57	31.70	83.27	84.62	85.62	87.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

	01/01/2018		07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.20	31.70	85.90	87.25	88.25	90.60

CLASSIFICATIONS:

Helicopter Co-Pilot & Communications Engineer

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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.14	31.70	81.84	83.19	84.19	86.54

CLASSIFICATIONS:

A-Frame

Cherry Picker -10 tons or less (Over 10 tons use crane rate)

Hoist (all types Except Chicago-boom)

Jack (screw, air hydraulic, power-operated unit or console
type, Except hand jack or pile load test type)

Side Boom

Straddle Carrier

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.48	31.70	79.18	80.53	81.53	83.88

CLASSIFICATIONS:

Aerial Platform Used On Hoists

Apprentice Engineer/Oiler with Compressor or Welding Machine

Captain (Power Boats)

Compressor (2 or 3 in battery)

Concrete Cleaning/Decontamination Machine Operator

Conveyor or Tugger Hoist

Directional Boring Machine

Elevator or House Car

Fireman

Forklift

Generator (2 or 3)

Heavy Equipment Robotics, Operator/Technician

Maintenance Utility Man

Master Environmental Maintenance Technician

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician

Vacuum Blasting Machine Operator/Maintenance Technician

Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.95	31.70	77.65	79.00	80.00	82.35

CLASSIFICATIONS:

Compressor (Single)

Generators

Welding Machines, Gas, Diesel, Or Electric Converters of any type-single

Welding System, Multiple (Rectifier Transformer Type)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
44.19	31.70	75.89	77.24	78.24	80.59

CLASSIFICATIONS:

Assistant Engineer/Oiler

Drillers Helper

Field Engineer - Transit/Instrument Man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Off Road Back Dump

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.76	31.70	83.46	84.81	85.81	88.16

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.90	31.70	82.60	83.95	84.95	87.30

CLASSIFICATIONS:

Field Engineer-Chief of Party

Vacuum Truck

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
59.09	31.70	90.79	92.14	93.14	95.49

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.43	31.70	89.13	90.48	91.48	93.83

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.93	31.70	84.63	85.98	86.98	89.33

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

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STRUCTURAL STEEL ERECTION Rates Expiration Date : 03/31/2020

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Helicopter Pilot & Engineer

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST **Rates Expiration Date : 03/31/2020**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Driller's Helper

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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
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FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.00	29.73	71.73	73.03	75.78	78.28

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.70	29.73	71.43	72.73	75.48	77.98

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

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FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.20	29.73	70.93	72.23	74.98	77.48

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.70	29.73	73.43	74.73	77.48	79.98

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.65	29.73	70.38	71.68	74.43	76.93

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.30	29.73	70.03	71.33	74.08	76.58

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.15	29.73	69.88	71.18	73.93	76.43

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

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FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

DRILL FOR GROUND WATER SUPPLY **Rates Expiration Date : 03/31/2020**

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
49.32	31.70	81.02	82.37	83.37	85.72

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
42.48	31.70	74.18	75.53	76.53	78.88

CLASSIFICATIONS:

Driller's Helper

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

OVERTIME:

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

10/01/2017

Rate	Fringe	Total
38.18	14.33	52.51

CLASSIFICATIONS:

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

Effective Dates:

10/01/2017

Rate	Fringe	Total
33.03	13.92	46.95

CLASSIFICATIONS:

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

Effective Dates:

10/01/2017

Rate	Fringe	Total
31.09	13.77	44.86

CLASSIFICATIONS:

Certified Welder

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

Effective Dates:

10/01/2017

Rate	Fringe	Total
30.24	13.40	43.64

CLASSIFICATIONS:

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

Effective Dates:

10/01/2017

Rate	Fringe	Total
29.26	13.32	42.58

CLASSIFICATIONS:

Boat Operator

Effective Dates:

10/01/2017

Rate	Fringe	Total
24.30	12.62	36.92

CLASSIFICATIONS:

Shoreman, Deckhand, Rodman, Scowman

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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL **Rates Expiration Date : 02/28/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem
IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.

SHIFT DIFFERENTIALS:

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

OVERTIME:

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

Effective Dates:

03/01/2017

Rate	Fringe	Total
36.50	21.27	57.77

CLASSIFICATIONS:

Foreman

Effective Dates:

03/01/2017

Rate	Fringe	Total
33.80	21.27	55.07

CLASSIFICATIONS:

Box man

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Microsurface/Slurry Preparation

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Squeegee man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL Rates Expiration Date : 02/28/2018

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

CLASSIFICATIONS:

Cleaner, Taper

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ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Paving Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.05	29.73	69.78	71.08	73.83	76.33

CLASSIFICATIONS:

Head Raker

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.90	29.73	69.63	70.93	73.68	76.18

CLASSIFICATIONS:

Raker, Screedman, Luteman

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.65	29.73	69.38	70.68	73.43	75.93

CLASSIFICATIONS:

Tampers, Smoothers, Kettlemen,
Painters, Shovelers, Roller Boys

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

Milling Controller

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Traffic Control Coordinator

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH **Rates Expiration Date : 10/16/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

SHIFT DIFFERENTIAL:

Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$1.00 per hour.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Hazardous Waste Pay (for Levels A, B, and C): an additional 10% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:

- 1st year on the job - 70% of Helper wage rate
- 2nd year on the job - 80% of Helper wage rate
- 3rd year on the job - 90% of Helper wage rate
- All helpers receive full fringe benefit rate.

Effective Dates:

10/17/2017

Rate	Fringe	Total
31.62	25.55	57.17

CLASSIFICATIONS:

Helper (4th year helper)

Effective Dates:

10/17/2017

Rate	Fringe	Total
39.69	25.55	65.24

CLASSIFICATIONS:

Driller

Effective Dates:

10/17/2017

Rate	Fringe	Total
45.73	25.55	71.28

CLASSIFICATIONS:

Foreman

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; traffic control coordinator; asphalt raker or lute man

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

"A" Rate:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

"GENERAL FOREMAN" Rate

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

wagon drill or drill master helper; powder carrier; magazine tender; signal man

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

wagon or directional drill operator; drill master

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

general foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; gunite nozzle man

PIPELINE - MAINLINE TRANSMISSION **Rates Expiration Date : 06/03/2018**

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$42.50; Pipeline Journeyman Welder: \$102.50; and Pipeline Helper: \$42.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
 - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
 - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman Welder

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

PIPELINE - MAINLINE TRANSMISSION Rates Expiration Date : 06/03/2018

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

06/05/2017

Rate	Fringe	Total
33.27	19.97	53.24

CLASSIFICATIONS:

Pipeline Helper

PIPELINE - GAS DISTRIBUTION **Rates Expiration Date : 10/31/2020**

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

SHIFT DIFFERENTIALS:

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman Welder

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
37.68	16.74	54.42	56.00	57.67

CLASSIFICATIONS:

Pipeline Helper

ASPHALT LABORERS- NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Asphalt Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

Asphalt Screedman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Asphalt Raker or Lute Man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS- NORTH Rates Expiration Date : 02/28/2021

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

Asphalt Laborer

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Electrician-Utility Work (North)

(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).

These rates apply to work contracted for by the following utility companies:

Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.

These rates do not apply to work on substations or switching stations.

For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.

3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

Four 10-hour days may be worked, at straight time, between 7:00 AM and 6:30 PM, Monday through Thursday.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
53.70	35.97	89.67	92.06	94.45	96.84

CLASSIFICATIONS:

Chief Lineman

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Journeyman Lineman

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ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Special License Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Transit Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
48.64	32.58	81.22	83.38	85.53	87.70

CLASSIFICATIONS:

Line Equipment Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
42.56	28.51	71.07	72.96	74.84	76.73

CLASSIFICATIONS:

Dynamite Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
63.33	42.43	105.76	108.56	111.38	114.19

CLASSIFICATIONS:

General Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
58.26	39.03	97.29	99.88	102.47	105.05

CLASSIFICATIONS:

Assistant General Foreman

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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
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ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
56.74	38.01	94.75	97.27	99.79	102.32

CLASSIFICATIONS:

Line Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
41.04	27.49	68.53	70.35	72.17	73.99

CLASSIFICATIONS:

Street Light Mechanical Leader

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Winch Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Truck Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Street Light Mechanic

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Line Equipment Mechanic

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
32.93	22.06	54.99	56.46	57.91	59.38

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
30.40	20.36	50.76	52.12	53.47	54.80

CLASSIFICATIONS:

Groundman 1st Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Line Equipment Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North)", see the "Outside Commercial Rates" for the county in which the jobsite is located.

*** FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES**

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

RECOGNIZED HOLIDAYS:

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

WORKING RULES:

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

Effective Dates:

12/03/2017

Rate	Fringe	Total
60.25	46.05	106.30

CLASSIFICATIONS:

General Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
53.66	42.21	95.87

CLASSIFICATIONS:

Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
50.84	40.58	91.42

CLASSIFICATIONS:

Small Job Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Heavy Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Cable Splicer

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Lineman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Welder

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Painter

Effective Dates:

12/03/2017

Rate	Fringe	Total
37.66	32.92	70.58

CLASSIFICATIONS:

Light Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
32.95	30.18	63.13

CLASSIFICATIONS:

Groundman Truck Driver

Effective Dates:

12/03/2017

Rate	Fringe	Total
30.60	28.82	59.42

CLASSIFICATIONS:

Groundman 3rd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
28.24	27.44	55.68

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
25.89	26.08	51.97

CLASSIFICATIONS:

Groundman 1st Year

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date : 12/04/2021

Effective Dates:

12/03/2017

Rate	Fringe	Total
20.71	23.07	43.78

CLASSIFICATIONS:

Flagman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

****THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY****

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
63.00	29.73	92.73	94.41	97.91	101.16

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
62.55	29.73	92.28	93.96	97.46	100.71

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
61.80	29.73	91.53	93.21	96.71	99.96

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
65.55	29.73	95.28	96.96	100.46	103.71

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.98	29.73	90.71	92.38	95.88	99.13

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.45	29.73	90.18	91.86	95.36	98.61

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.23	29.73	89.96	91.63	95.13	98.38

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
59.63	29.73	89.36	91.03	94.53	97.78

CLASSIFICATIONS:

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)



STATE OF NEW JERSEY
Department of Labor and Workforce Development
Division of Wage and Hour Compliance - Public Contracts Section
PO Box 389
Trenton, NJ 08625-0389

PREVAILING WAGE RATE DETERMINATION

The New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25 et seq.) requires that the Department of Labor and Workforce Development establish and enforce a prevailing wage level for workers engaged in public works in order to safeguard their efficiency and general well being and to protect them as well as their employers from the effects of serious and unfair competition.

Prevailing wage rates are wage and fringe benefit rates based on the collective bargaining agreements established for a particular craft or trade in the locality in which the public work is performed. In New Jersey, these rates vary by county and by the type of work performed.

Applicable prevailing wage rates are those wages and fringe benefits in effect on the date the contract is awarded. All pre-determined rate increases listed at the time the contract is awarded must also be paid, beginning on the dates specified. Rates that have expired will remain in effect until new rates are posted.

Prevailing Wage Rate

The prevailing wage rate for each craft will list the effective date of the rate and the following information:

W = Wage Rate per Hour

B = Fringe Benefit Rate per Hour*

T = Total Rate per Hour

- * Fringe benefits are an integral part of the prevailing wage rate. Employers not providing such benefits must pay the fringe benefit amount directly to the employee each payday. Employers providing benefits worth less than the fringe benefit amount must pay the balance directly to the employee each payday.

Unless otherwise stated in the Prevailing Wage Rate Determination, the fringe benefit rate for overtime hours remains at the straight time rate.

When the Overtime Notes in the Prevailing Wage Rate Determination state that the overtime rates are "inclusive of benefits," the benefit rate is increased by the same factor as the wage rate (i.e. multiplied by 1.5 for time and one-half, multiplied by 2 for double time, etc.).

Apprentice Rate Schedule

An "apprentice" is an individual who is registered with the United States Department of Labor - Office of Apprenticeship and enrolled in a certified apprenticeship program during the period in which they are working on the public works project.

The apprentice wage rate is a percentage of the journeyman wage rate, unless otherwise indicated. The apprentice benefit rate is the full journeyman benefit rate, unless otherwise indicated.

If there is no apprentice rate schedule listed, the individual must be paid at least the journeyman rate even if that individual is in a certified apprentice program for that trade.

If there is no ratio of apprentices to journeymen listed for a particular craft, then the ratio shall be one (1) apprentice to every four (4) journeymen.

Comments/Notes

For each craft listed there will be comments/notes that cover the definition of the regular workday, shift differentials, overtime, recognized holidays, and any other relevant information.

Public Works Contractor Registration

The Public Works Contractor Registration Act (N.J.S.A. 34:11-56.48, et seq.) requires that **all** contractors, subcontractors, or lower tier subcontractors who are working on or who bid on public works projects register with the Department of Labor and Workforce Development. Applications are available at www.nj.gov/labor (click on Wage & Hour and then go to Registration & Permits).

Pursuant to N.J.S.A. 34:11-56.51:

No contractor shall bid on any contract for public work as defined in section 2 of P.L.1963, c. 150 (C.34:11-56.26) unless the contractor is registered pursuant to this act. No contractor shall list a subcontractor in a bid proposal for the contract unless the subcontractor is registered pursuant to P.L.1999, c.238 (C.34:11-56.48 et seq.) at the time the bid is made. No contractor or subcontractor, including a subcontractor not listed in the bid proposal, shall engage in the performance of any public work subject to the contract, unless the contractor or subcontractor is registered pursuant to that act.

Snow Plowing

Snow plowing contracts are not subject to the New Jersey Prevailing Wage Act or the Public Works Contractor Registration Act.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Air Conditioning & Refrigeration - Service and Repair

PREVAILING WAGE RATE

	03/01/18
Journeyman (Mechanic)	W37.98 B23.93 T61.91

Craft: Air Conditioning & Refrigeration - Service and Repair

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
As Shown	Mo. 1-3	Mo. 4-12	2nd Year	3rd Year	4th Year	5th Year		Wage = %	of Jnymn	Wage
Wage and Bene	50%	55%	60%	65%	75%	85%		Bene = %	of Jnymn	Bene

Ratio of Apprentices to Journeymen - 1:4

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 3-1-13:

INTERVAL	PERIOD AND RATES						
As Shown	1st Year	2nd Year	3rd Year	4th Year	5th Year		Wage =% of Jnymn Wage
Wage and Benefit	40%	50%	60%	70%	80%		Bene. =% of Jnymn Wage

Craft: Air Conditioning & Refrigeration - Service and Repair

COMMENTS/NOTES

THESE RATES MAY BE USED FOR THE FOLLOWING:

- Service/Repair/Maintenance Work to EXISTING facilities.
- Replacement or Installation of air conditioning and refrigeration equipment when the combined tonnage does not exceed 15 tons for refrigeration, or 25 tons for air conditioning.
- Replacement or Installation of "packaged" or "unitary" rooftop-type units when the combined tonnage of the units does not exceed 75 tons.

NOTE: These rates may NOT be used for any work in new construction (including work on new additions).

The regular workday shall consist of 8 hours, starting between 6:00 AM and 10:00 AM, Monday through Friday.

SHIFT DIFFERENTIALS:

- The second and third shifts shall be paid an additional 15% of the hourly rate.
- All shifts must run for a minimum of 5 consecutive days.

OVERTIME:

Hours worked in excess of 8 per day or before or after the regular workday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Boilermaker

PREVAILING WAGE RATE

	01/01/18
Foreman	W49.50 B42.52 T92.02
General Foreman	W51.50 B43.50 T95.00
Journeyman	W44.50 B40.92 T85.42

Craft: Boilermaker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	65%	70%	75%	80%	85%	90%	95%			
Benefit =	34.83	35.70	36.58	37.44	38.32	39.19	40.05			

Ratio of Apprentices to Journeymen - *

* 1 apprentice will be allowed for the first 5 journeymen, 1 apprentice for the next 10 journeymen and 1 apprentice for each succeeding 20 journeymen up to a maximum of 5 apprentices per contractor on any one job.

Craft: Boilermaker

COMMENTS/NOTES

HIGH WORK: All apprentices working on the erection, repair, or dismantling of smoke stacks, standpipes, or water towers shall be paid the Journeyman rate.

The regular workday shall consist of 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall work 7½ hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 10%.
- The third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 20%.
- For "Municipal Water Works" projects only, the following shall apply: Two, four day, 10 hour shifts may be worked at straight time Monday through Thursday. The day shift shall work four days, at 10 hours, for 10 hours pay. The second shift shall work four days, at nine and a half hours, for 10 hours pay, plus 10% the hourly rate for new work and .25 cents on repair work. Friday may be used as a make-up day at straight time, due to weather conditions, holiday or any other circumstances beyond the employer's control.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.
- If any other craft employed by the same contractor, or a subcontractor thereof, receives double time in lieu of time and one-half, then the Boilermaker shall receive double time in lieu of time and one-half.
- For "Municipal Water Works" projects only, the following shall apply: Four 10 hour days may be worked Monday through Thursday at straight time. Friday may be used as a make-up day for a day lost to inclement weather, holiday or other conditions beyond the control of the employer. Overtime shall be paid for any hours that exceed 10 hours per day or 40 hours per week.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Boilermaker - Minor Repairs

PREVAILING WAGE RATE

	01/01/18
Foreman	W33.54 B16.17 T49.71
General Foreman	W34.04 B16.17 T50.21
Mechanic	W32.04 B16.17 T48.21

Craft: Boilermaker - Minor Repairs

COMMENTS/NOTES

NOTE: These rates apply to MINOR REPAIR WORK ONLY (repair work in the field for which the contract amount does not exceed \$125,000.00).

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Bricklayer, Stone Mason

PREVAILING WAGE RATE

	05/01/17	05/01/18
Deputy Foreman	W44.10 B31.94 T76.04	W0.00 B0.00 T78.23
Foreman	W47.10 B31.94 T79.04	W0.00 B0.00 T81.23
Journeyman	W41.10 B31.94 T73.04	W0.00 B0.00 T75.23

Craft: Bricklayer, Stone Mason

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%	55%	60%	65%	70%	75%	80%		
Benefits	3.72	4.65	5.12	5.58	20.48	21.83	23.18	24.52		

Ratio of Apprentices to Journeymen - 1:5

Craft: Bricklayer, Stone Mason

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 5-1-17:

INTERVAL	PERIOD AND RATES								
6 Months	40%	50%	55%	60%	65%	70%	75%	80%	
Benefits	3.80	4.75	5.23	5.70	21.16	22.55	23.95	25.33	

The regular workday shall consist of 8 hours, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the first, or day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 10%, inclusive of benefits.

OVERTIME:

- The first 2 hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. The first 10 hours on Saturday shall be paid at time and one-half the

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

- Saturday may be used as a make-up day for hours lost to inclement weather.

- When Bricklayers/Stone Masons work on Saturday with Laborers, and no other crafts are working on the project for the day, benefits may be paid at straight time. If other crafts are present, the applicable overtime rate for benefits shall be paid.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Carpenter

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Foreman	W55.11 B31.41 T86.52	W0.00 B0.00 T87.29	W0.00 B0.00 T88.54
Journeyman	W47.92 B27.31 T75.23	W0.00 B0.00 T76.48	W0.00 B0.00 T77.73

Craft: Carpenter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57% of	Appren	tice	Wage Rate	for all	intervals				

Ratio of Apprentices to Journeymen - 1:3

Craft: Carpenter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Carpenter - Resilient Flooring

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Foreman	W55.11 B31.41 T86.52	W0.00 B0.00 T87.29	W0.00 B0.00 T88.54
Journeyman	W47.92 B27.31 T75.23	W0.00 B0.00 T76.48	W0.00 B0.00 T77.73

Craft: Carpenter - Resilient Flooring

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57%	of	Appren	tice	Wage Rate	for all	intervals			

Ratio of Apprentices to Journeymen - *

* 1 apprentice shall be allowed to every 2 journeymen or major fraction thereof. No more than 3 apprentices on any one job or project.

Craft: Carpenter - Resilient Flooring

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job where there are 4 or more Carpenters of Resilient Flooring, 1 must be designated a Foreman.

FOR SYNTHETIC TURF INSTALLATION ONLY:

- The rate shall be 90% of the wage and benefit rate.

The regular workday consists of 8 hours, starting between 6:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular wage rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular wage rate, the second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.

OVERTIME:

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Cement Mason

PREVAILING WAGE RATE

See "Bricklayer, Stone Mason" Rates

Craft: Cement Mason

COMMENTS/NOTES

See "Bricklayer, Stone Mason" Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Diver

PREVAILING WAGE RATE

	12/13/17	05/01/18	11/01/18
Diver	W57.54 B45.57 T103.11	W0.00 B0.00 T104.36	W0.00 B0.00 T105.61
Tender	W45.80 B45.57 T91.37	W0.00 B0.00 T92.62	W0.00 B0.00 T93.87

Craft: Diver

COMMENTS/NOTES

NOTE: All dive crews must consist of a Tender, a Diver, and a standby Diver (standby Diver is the same rate as a Diver).

DEPTH & PENETRATION RATES: Divers shall be paid the following depth and penetration rates, in addition to the regular hourly rate, when applicable:

AIR DIVES:

0-59 feet: No additional wage
60-74 feet: + \$0.25 per foot
75-125 feet: + \$0.78 per foot

MIXED GAS DIVES:

0-74 feet: No additional wage
75-125 feet: + \$1.00 per foot
126-200 feet: + \$2.00 per foot

PENETRATION DIVES:

126-200 feet: + \$1.50 per foot
201-275 feet: + \$1.75 per foot
276-350 feet: + \$2.00 per foot
351-425 feet: + \$2.50 per foot

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Dockbuilder

PREVAILING WAGE RATE

	12/13/17	05/01/18	11/01/18
Foreman	W52.67 B45.57 T98.24	W0.00 B0.00 T99.24	W0.00 B0.00 T100.49
Foreman (Concrete Form Work)	W51.87 B32.46 T84.33	W0.00 B0.00 T85.35	W0.00 B0.00 T86.60
Journeyman	W45.80 B45.57 T91.37	W0.00 B0.00 T92.62	W0.00 B0.00 T93.87
Journeyman (Concrete Form Work)	W45.10 B32.46 T77.56	W0.00 B0.00 T78.81	W0.00 B0.00 T80.06

Craft: Dockbuilder

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	18.32	22.90	29.77	36.64						
Benefit	30.57	for all	intervals							

Ratio of Apprentices to Journeymen - *

* When there are 4 or fewer Dockbuilders on a job, no more than 1 may be an apprentice. When there are 5 or more Dockbuilders, there may be 1 apprentice for every 5 Dockbuilders.

Craft: Dockbuilder

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL	PERIOD AND RATES			
Yearly	18.04	22.55	29.32	36.08
Benefits	22.46 for all intervals			

CREOSOTE HANDLING:

When handling creosote products on land piledriving, floating marine construction, and construction of wharves, the worker shall receive an additional \$0.25 per hour.

HAZARDOUS WASTE WORK:

- Hazardous waste removal work on a state or federally designated hazardous waste site where Level A, B, or C personal protection is required: an additional 20% of the hourly rate, per hour.
- Hazardous waste removal work in Level D, or where personal protection is not required: an additional \$1.00 per hour.

CERTIFIED WELDER: When required on the job by the project owner, a Certified Welder shall receive an additional \$1.00 per hour.

FOREMAN REQUIREMENTS:

The first Dockbuilder on the job shall be designated a Foreman.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Drywall Finisher

PREVAILING WAGE RATE

	05/01/17
Foreman	W43.45 B23.60 T67.05
General Foreman	W45.43 B23.60 T69.03
Journeyman	W39.50 B23.60 T63.10

Craft: Drywall Finisher

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits	Intervals	1 to 3 =	9.85	Intervals	4 to 6 =	12.28	Intervals	7 to 9 =	14.95	

Ratio of Apprentices to Journeymen - 1:4

Craft: Drywall Finisher

COMMENTS/NOTES

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Electrician

PREVAILING WAGE RATE

	05/29/17	05/28/18
Cable Splicer	W60.08 B34.53 T94.61	W61.52 B35.35 T96.87
Foreman	W61.17 B35.15 T96.32	W62.64 B35.98 T98.62
Journeyman	W54.62 B31.39 T86.01	W55.93 B32.13 T88.06

Craft: Electrician

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	49%	58%	68%	80%		of Jour	neyman	Wage	rate
Benefit	40%	49%	58%	68%	80%		of Jour	neyman	Benefit	Rate

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician

COMMENTS/NOTES

THESE RATES ALSO APPLY TO THE FOLLOWING:

- All burglar and fire alarm work.
- All fiber optic work.
- Teledata work in new construction.
- Teledata work involving 16 Voice/Data Lines or more.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

- On any job where there are 1 to 10 Journeymen electricians, 1 shall be designated a Foreman.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

PREVAILING WAGE RATE

	11/15/17	10/29/18	10/28/19	11/02/20
Master	W53.52	W54.86	W56.16	W57.42
Technician/General	B29.43	B30.17	B30.89	B31.58
Foreman	T82.95	T85.03	T87.05	T89.00
Senior Technician/Lead	W48.99	W50.22	W51.41	W52.56
Foreman	B26.94	B27.62	B28.27	B28.91
(21-30 Workers on Job)	T75.93	T77.84	T79.68	T81.47
Technician A/Foreman	W46.93	W48.11	W49.25	W50.35
(11-20 Workers on Job)	B25.81	B26.46	B27.08	B27.69
	T72.74	T74.57	T76.33	T78.04
Technician B/Working	W44.88	W46.00	W47.09	W48.15
Foreman	B24.67	B25.30	B25.90	B26.47
(4-10 Workers on Job)	T69.55	T71.30	T72.99	T74.62
Technician C/Journeyman	W41.17	W42.20	W43.20	W44.17
(1-3 Workers on Job)	B22.64	B23.21	B23.76	B24.29
	T63.81	T65.41	T66.96	T68.46

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months					66%	72%	79%	86%		
Benefits					11.81	12.89	14.14	15.40		

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 10-31-14:

INTERVAL	PERIOD AND RATES										
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%	
Benefits	6.76	6.76	7.16	7.70	8.59	9.66	10.82	11.99	13.25	14.51	

NOTES:

- These rates are for service, maintenance, moves, and/or changes affecting 15 Voice/Data (teledata) lines or less. These rates may NOT be used for any teledata work in new construction (including additions) or any fiber optic work.
- The number of Teledata workers on the jobsite is the determining factor for which Foreman category applies .

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - WARREN

- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Electrician - Teledata (16 Instruments & More)

PREVAILING WAGE RATE

See "Electrician" Rates

Craft: Electrician - Teledata (16 Instruments & More)

COMMENTS/NOTES

See ELECTRICIAN Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Electrician- Outside Commercial

PREVAILING WAGE RATE

	05/29/17	05/28/18
Cable Splicer	W60.37 B34.24 T94.61	W61.82 B35.06 T96.88
Certified Welder	W57.62 B32.68 T90.30	W59.01 B33.47 T92.48
Equipment Operator	W54.88 B31.13 T86.01	W56.20 B31.88 T88.08
Foreman (1-10 Journeyman workers on job)	W61.47 B34.86 T96.33	W62.94 B35.70 T98.64
Foreman (11-20 Journeyman workers on job)	W63.11 B35.79 T98.90	W64.63 B36.66 T101.29
General Foreman (21-30 Journeyman workers on job)	W64.76 B36.73 T101.49	W66.32 B37.61 T103.93
General Foreman (31-60 Journeyman workers on job)	W70.25 B39.84 T110.09	W71.94 B40.80 T112.74
General Foreman (61+ Journeyman workers on job)	W71.34 B40.46 T111.80	W73.06 B41.44 T114.50
Groundman	W32.93 B18.68 T51.61	W33.72 B19.13 T52.85
Journeyman Lineman/Technician	W54.88 B31.13 T86.01	W56.20 B31.88 T88.08
Sub-Foreman	W61.47 B34.86 T96.33	W62.94 B35.70 T98.64

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Electrician- Outside Commercial

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	56.4% of	Journey	man	wage	+ \$.01					

Craft: Electrician- Outside Commercial

COMMENTS/NOTES

EFFECTIVE 5-30-16- The apprentice benefit rate shall be 56.7% + \$.01.

EFFECTIVE 5-29-17- The apprentice benefit rate shall be 56.7% + \$.01.

EFFECTIVE 5-28-18- The apprentice benefit rate shall be 56.7% + \$.01.

* FOR UTILITY WORK PLEASE SEE STATEWIDE RATES

The regular worday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

On jobs where there are 2 Journeymen, one shall be a Foreman. The following number of Foreman, General Foreman, Assistant General Foreman and Sub-Foreman shall be required with respect to number of Journeymen on site:

2-10 Journeymen (1 Foreman)

11-20 Journeymen (1 Foreman and 1 Sub-Foreman)

21-30 Journeymen (1 Foreman and 2 Sub-Foremen)

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, inclusive of benefits.

3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate per hour, inclusive benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Electrician-Utility Work (North)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (North)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
* 6 Months	60%	65%	70%	75%	80%	85%	90%			
Benefits	67% of	Appren	tice	Wage	Rate	for all	intervals			

Craft: Electrician-Utility Work (North)

COMMENTS/NOTES

Electrician-Utility Work (North) rates are located in the "Statewide" rate package.

* The apprentice wage rate is paid at the percentage of the Journeyman Lineman wage rate located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Electrician-Utility Work (South)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (South)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	28.24	30.60	32.95	35.30	37.66	40.01	42.36			
Benefits	24.29	25.67	27.03	28.40	29.77	31.13	32.51			

Craft: Electrician-Utility Work (South)

COMMENTS/NOTES

Electrician-Utility Work (South) rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Elevator Constructor

PREVAILING WAGE RATE

	03/17/17	03/17/18
Journeyman	W62.64 B41.56 T104.20	W64.48 B43.36 T107.84

Craft: Elevator Constructor

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	27.95	34.45	40.72	46.98						
Benefits	33.31	34.46	36.04	37.61						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Constructor

COMMENTS/NOTES

The regular workday shall consist of either 7 or 8 hours to be established at the beginning of the project, between 7:00 AM and 4:30 PM.

OVERTIME:

For all hours worked before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday, shall be paid at double the hourly rate. Holiday pay is one days wages (8 hours) plus double the hourly rate for all hours worked.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Elevator Modernization & Service

PREVAILING WAGE RATE

	03/17/17	03/17/18
Journeyman	W49.14 B39.91 T89.05	W50.49 B41.66 T92.15

Craft: Elevator Modernization & Service

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	27.95	27.03	31.94	36.86						
Benefits	33.23	33.57	34.97	36.37						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Modernization & Service

COMMENTS/NOTES

MODERNIZATION (addition, replacement, refurbishing, relocation, or changes in design or appearance, of elevator equipment in existing buildings):

- The regular workday consists of 8 hours, between 7:00 AM and 4:30 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday shall be paid at time and one-half the hourly rate. Holiday pay is one days wages (8 hours) plus time and one-half the hourly rate for all hours worked.

SERVICE (repair or replacement of parts for the purpose of maintaining elevator equipment in good operating condition):

- The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS (Modernization and Service): New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Glazier

PREVAILING WAGE RATE

	05/25/17	05/01/18	05/01/19
Foreman	W48.81 B23.62 T72.43	W50.81 B23.62 T74.43	W52.81 B23.62 T76.43
General Foreman	W50.81 B23.75 T74.56	W52.81 B23.75 T76.56	W54.81 B23.75 T78.56
Journeyman	W44.81 B23.36 T68.17	W46.81 B23.36 T70.17	W48.81 B23.36 T72.17

Craft: Glazier

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	50%	55%	60%	65%	70%	75%	80%	90%		
Benefits	8.85	8.85	11.46	11.46	12.88	12.88	16.37	16.37		

Ratio of Apprentices to Journeymen - 1:4

Craft: Glazier

COMMENTS/NOTES

Hazard/Height Pay: +\$1.00 per hour

FOREMAN REQUIREMENTS:

- When there are 4 or more Glaziers on a job, 1 must be designated a Foreman.
- When there are 15 or more Glaziers on a job, 1 must be designated a General Foreman.

The regular workday shall consist of 8 hours, between 7:00 AM and 5:30 PM, Monday to Friday.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Heat & Frost Insulator

PREVAILING WAGE RATE

	09/27/17
Foreman	W53.77 B31.17 T84.94
General Foreman	W56.32 B32.28 T88.60
Journeyman	W52.49 B30.61 T83.10

Craft: Heat & Frost Insulator

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	24.40	28.94	34.95	40.96						
Benefits	18.33	21.68	23.89	25.96						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator

COMMENTS/NOTES

NOTE: These rates apply to the installing of insulation on hot and cold mechanical systems.

The regular workday shall be 8 hours between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 consecutive workdays.
- Second Shift shall work 7.5 hours and receive 8 hours pay, at the regular rate, plus 25% per hour.
- Third Shift shall work 7 hours and receive 8 hours pay, at the regular rate, plus 30% per hour.

OVERTIME:

The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Heat & Frost Insulator - Asbestos Worker

PREVAILING WAGE RATE

	09/27/17
Asbestos Helper Abatement	W34.42 B23.37 T57.79

Craft: Heat & Frost Insulator - Asbestos Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	HEAT &	FROST	INSULAT OR						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator - Asbestos Worker

COMMENTS/NOTES

NOTE: These rates apply only to the removal of insulation materials/asbestos from mechanical systems, including containment erection and demolition, and placing material in appropriate containers.

The regular workday shall be 8 hours between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- The second shift shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 25% per hour.
- The third shift shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

OVERTIME: The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Ironworker

PREVAILING WAGE RATE

	07/01/17
Rod /Fence Foreman	W43.49 B45.02 T88.51
Rod/Fence Journeyman	W40.49 B45.02 T85.51
Structural Foreman	W45.54 B45.02 T90.56
Structural Journeyman	W42.54 B45.02 T87.56

Craft: Ironworker

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	50%	60%		Yearly	70%	80%	90%			

Ratio of Apprentices to Journeymen - 1:4

Craft: Ironworker

COMMENTS/NOTES

HAZARDOUS WASTE WORK: On hazardous waste removal work on a state or federally designated hazardous waste site where the Ironworker is required to wear Level A,B, or C personal protection: + \$3.00 per hour

The regular workday consists of 8 hours between 6:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

When there are 2 or more Ironworkers on a job, 1 shall be designated a Foreman.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule is established, the first, or day shift , shall be established on an 8 hour basis .The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15%, and the third shift shall receive the regular rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis.
- When an irregular shift is established for the Ironworker (Structural) classification, the rate shall be paid at time and one-half the regular rate, inclusive of benefits. When an irregular shift is established for the Rod/Fence classification, the shift shall be established on an 8 hour basis and receive the regular rate, plus 20%.

OVERTIME:

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits. Saturday may be used as a make-up day for a day lost to inclement weather. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits.

- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Laborer - Asbestos & Hazardous Waste Removal

PREVAILING WAGE RATE

	01/26/17
Journeyman (Handler)	W30.88 B21.91 T52.79

Craft: Laborer - Asbestos & Hazardous Waste Removal

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	18.53	21.62	24.70	27.79						
Benefit	20.26	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Asbestos & Hazardous Waste Removal

COMMENTS/NOTES

NOTE: These rates apply to work in connection with Asbestos, Radiation, Hazardous Waste, Lead, Chemical, Biological, Mold Remediation and Abatement.

The regular workday shall be 8 hours.

OVERTIME:

- Hours in excess of 8 per day, Monday through Saturday, and all hours on Sunday and holidays shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Good Friday, Easter, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. (Holidays start at 12:00 am).

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

PREVAILING WAGE RATE DETERMINATION

County - WARREN

Craft: Laborer - Building

PREVAILING WAGE RATE

	11/01/17	05/01/18
Class A Journeyman	W32.90 B28.02 T60.92	W0.00 B0.00 T62.57
Class B Journeyman	W32.40 B28.02 T60.42	W0.00 B0.00 T62.07
Class C Journeyman	W27.54 B28.02 T55.56	W0.00 B0.00 T57.45
Foreman	W37.01 B28.02 T65.03	W0.00 B0.00 T66.48
General Foreman	W41.13 B28.02 T69.15	W0.00 B0.00 T70.40

Craft: Laborer - Building

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	60%	70%	80%	90%						
Benefit24.12	24.77	24.77	24.77	24.77						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Building

COMMENTS/NOTES

CLASS A: Specialist laborer including mason tender or concrete pour crew; scaffold builder (scaffolds up to 14 feet in height); operator of forklifts, Bobcats (or equivalent machinery), jack hammers, tampers, motorized tampers and compactors, vibrators, street cleaning machines, hydro demolition equipment, riding motor buggies, conveyors, burners; and nozzlemen on gunite work.

CLASS B: Basic laborer - includes all laborer work not listed in Class A or Class C.

CLASS C: Janitorial-type light clean-up work associated with the TURNOVER of a project, or part of a project, to the owner. All other clean-up work is Class B.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- When a 2-shift schedule is worked, including a day shift, both shifts shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%.
- When a 3-shift schedule is worked, the day shift shall be established on the basis of 8 hours pay for 8 hours worked, the second shift shall be established on the basis of 8 hours pay for 7.5 hours worked, and the third shift shall be established

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

on the basis of 8 hours pay for 7 hours worked. The day shift shall receive the regular rate, the second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When a second or third shift is worked with no day shift, the second or third shift shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

OVERTIME:

- Hours in excess of 8 per day, or outside the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. Saturday may be used as a make-up day (paid at straight time) for a day lost to inclement weather, or for a holiday that is observed during the work week, Monday through Friday. All hours on Sundays and holidays shall be paid at double the regular rate.

- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.

- Benefits on ALL overtime hours shall be paid at time and one-half.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Laborer - Heavy & General

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Laborer - Heavy & General

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	19.53	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* No more than 1 apprentice for the first journeyman and no more than 1 apprentice for each additional 3 journeymen.

Craft: Laborer - Heavy & General

COMMENTS/NOTES

As of 3-1-18, benefits shall be \$20.23.
As of 9-1-18, benefits shall be \$20.28.
As of 3-1-19, benefits shall be \$21.03.
As of 3-1-20, benefits shall be \$21.78.

Heavy & General Laborer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Laborer-Residential and Modular Construction

PREVAILING WAGE RATE

	04/01/17
* Skilled Tradesman (only applies to Modular Construction)	W25.55 B5.45 T31.00
Foreman (person directing crew, regardless of his skill classification)	W25.55 B5.45 T31.00
Laborer	W21.55 B5.45 T27.00
Laborer (for single family and stand-alone duplex owned by single owner)	W17.05 B2.95 T20.00

Craft: Laborer-Residential and Modular Construction

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
As shown	800 hours	600 hours	600 hours							
wage & benefits	70%	80%	90%							

Ratio of Apprentices to Journeymen-

One (1) apprentice shall be allowed for the first journeyman on site and no more than one (1) additional apprentice for each additional three (3) journeymen on site.

Craft: Laborer-Residential and Modular Construction

COMMENTS/NOTES

*** SKILLED TRADESMAN-**

any worker doing work not typically done by a Building Laborer. Some examples are installing interior doors, sheet rock, hooking up appliances, installing light fixtures, installing railing systems, etc. Please note where local building codes require that certain work be performed under the supervision of a licensed tradesman (i.e. Plumber, Electrician, etc.) Laborers shall work under such supervision.

RESIDENTIAL CONSTRUCTION- All residential construction (not commercial), single-family, stand-alone duplex houses, townhouses and multi-family buildings of not more than four (4) floors, including basement levels. Please note the construction must be residential in nature for ALL FLOORS at an elevation of no more than FOUR (4) FLOORS, INCLUDING BASEMENT. In addition, barracks and dormitories are not considered residential projects.

MODULAR RESIDENTIAL CONSTRUCTION- all aspects of modular residential construction (not commercial) at the site of installation of structures of no more than four (4) stories, including all excavation and site preparation, footings and foundation systems whether poured on-site or prefabricated, all underground waterproofing, underground utilities, concrete slabs, sidewalks, driveways, paving, hardscape and landscaping. Please note the construction must be residential in nature for ALL STORIES at an elevation of no more than FOUR (4) STORIES. All work performed by the Set Crew (the crew of workers who set the modular boxes on the foundation), including the rigging, setting, attaching and assembly of all modules and structural members, preparation of the foundation to accept modules, such as sill plates, connection of all in-module and under-module connections including, but not limited to, plumbing, electrical, HVAC, fire suppression, CATS,

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

telephone, television/internet, and fiber optic, the building or installation of any porches or decks regardless of material or method of construction, the on-site installation of, or completion of any roof system, doors, windows and fenestrations, including flashing, gutter and soffit systems, waterproofing, insulation and interior and exterior trim work, and painting. Please note that modular construction does not include on-site stick built construction, tip up construction or panel built construction.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

OVERTIME:

Hours worked in excess of 8 per day/40 per week, Monday through Saturday, and all hours worked on Sunday and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOILDAYS:

New Year's Day, Martin Luther King Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Millwright

PREVAILING WAGE RATE

	11/01/17
Foreman	W55.21 B32.62 T87.83
Journeyman	W48.01 B28.44 T76.45

Craft: Millwright

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%
Benefits	58% of	Appren	tice	Wage	Rate	for all	intervals	+ \$.60		

Ratio of Apprentices to Journeymen - 1:3

Craft: Millwright

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Millwrights on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Millwrights on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Operating Engineer

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	60%	70%	80%	90%						

Ratio of Apprentices to Journeymen - *

* 1 apprentice for each piece of heavy equipment. At least 10 pieces of heavy equipment or a minimum of 5 Operating Engineers must be on site.

Craft: Operating Engineer

COMMENTS/NOTES

Operating Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Operating Engineer - Field Engineer

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer - Field Engineer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	70%	75%	of Rod/	Chainman	Wage					
Yearly			80%	90%	Transit/	Instrument	man	Wage		

Ratio of Apprentices to Journeymen - *

* No more than 1 Field Engineer Apprentice per Survey Crew.

Craft: Operating Engineer - Field Engineer

COMMENTS/NOTES

Operating Engineer - Field Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Painter - Bridges

PREVAILING WAGE RATE

	05/04/17
Foreman	W59.13 B27.67 T86.80
General Foreman	W61.13 B27.67 T88.80
Journeyman	W54.13 B27.67 T81.80

Craft: Painter - Bridges

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%			60%	70%		80%	90%	
Benefits	Intervals	1 to 2 =	8.88	Intervals	3 to 4 =	10.81	Intervals	5 to 6 =	13.48	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Bridges

COMMENTS/NOTES

These rates apply to: All bridges that span waterways, roadways, railways and canyons. All tunnels, overpasses, viaducts and all appurtenances.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Painter - Line Striping

PREVAILING WAGE RATE

	12/01/17
Apprentice (1st year)	W25.45 B11.00 T36.45
Apprentice (2nd year)	W29.45 B18.00 T47.45
Foreman (Charge Person)	W37.60 B18.17 T55.77
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W33.33 B18.17 T51.50
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W37.10 B18.17 T55.27

Craft: Painter - Line Striping

COMMENTS/NOTES

OVERTIME:

Hours in excess of 8 per day, Monday through Saturday, and all hours on Sundays and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day and Christmas Day. Veterans Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Painter - New Construction

PREVAILING WAGE RATE

	08/03/17
Foreman	W43.18 B23.26 T66.44
General Foreman	W47.10 B23.51 T70.61
Journeyman	W39.25 B23.01 T62.26

Craft: Painter - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits							11.00	11.00	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	55%	65%	70%	75%	80%	90%
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Painter - Repainting

PREVAILING WAGE RATE

	05/26/17
Foreman	W31.95 B19.38 T51.33
General Foreman	W34.86 B19.51 T54.37
Journeyman	W29.05 B19.26 T48.31

Craft: Painter - Repainting

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	NEW	CONSTR	TION					
				UC						

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Repainting

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations (only doing painting and carpeting with nothing else being changed in the office or on the project) occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tank, or generating stations.

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Painter- Containment

PREVAILING WAGE RATE

	05/04/17
Journeyman	W35.18 B24.75 T59.93

Craft: Painter- Containment

COMMENTS/NOTES

NOTE: These rates shall require no painting, but used in a supporting capacity only, such as wrapping, boxing, fencing, etc. on tanks.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate..
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Painter-Elevated Water Tanks

PREVAILING WAGE RATE

	05/04/17
Foreman	W48.92 B24.92 T73.84
General Foreman	W50.92 B24.92 T75.84
Journeyman	W43.92 B24.92 T68.84

Craft: Painter-Elevated Water Tanks

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Elevated Water Tanks

COMMENTS/NOTES

These rates apply to: All new and repaint elevated water tanks (interior and exterior).

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Painter-Structural Steel

PREVAILING WAGE RATE

	05/04/17
Foreman	W47.87 B25.27 T73.14
General Foreman	W49.87 B25.27 T75.14
Journeyman	W42.87 B25.27 T68.14

Craft: Painter-Structural Steel

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Structural Steel

COMMENTS/NOTES

These rates apply to: All work in power plants (any aspect). On steeples, on dams, on hangers, transformers, substations, etc. and on open steel, whether new or repaint. All new work (excluding traditional commercial painting work) in refineries, tank farms, water/sewerage treatment facilities and on pipelines.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Paperhanger - New Construction

PREVAILING WAGE RATE

	05/26/17
Foreman	W44.20 B23.33 T67.53
Journeyman	W40.19 B23.07 T63.26

Craft: Paperhanger - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits							11.00	11.00	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	55%	65%	70%	75%	80%	90%
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Paperhanger - Renovation

PREVAILING WAGE RATE

	05/26/17
Foreman	W32.80 B19.42 T52.22
Journeyman	W29.82 B19.29 T49.11

Craft: Paperhanger - Renovation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAPER-	HANGER	NEW	CONSTR	TION				
					UC					

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - Renovation

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tanks, or generating stations.

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Pipefitter

PREVAILING WAGE RATE

	05/01/17	05/01/18	05/01/19
Foreman	W52.26 B41.12 T93.38	W0.00 B0.00 T95.60	W0.00 B0.00 T97.82
Journeyman	W48.51 B38.18 T86.69	W0.00 B0.00 T88.91	W0.00 B0.00 T91.13

Craft: Pipefitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	35%	45%	55%	65%	75%					
Benefits	16.14	19.95	23.75	26.05	28.45					

Craft: Pipefitter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Journeyman Pipefitters on a job, 1 shall be designated a Foreman.
- There shall be a Foreman for every 8 Journeyman Pipefitters on a job.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM.

SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 25% per hour.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

OVERTIME:

- All hours worked in excess of 8 per day, Monday through Friday, and all hours worked on Saturday, shall be paid at time and one-half, inclusive of benefits. All hours on Sunday and holidays shall be paid at double time, inclusive of benefits.
- By mutual agreement, employees may work four 10-hour days, Monday to Thursday, at straight time rate. Friday may be used as a make-up day for a day lost to inclement weather, and may be paid at straight time. If Friday is not a make-up day, the first 8 hours shall be paid at time and one-half, inclusive of benefits; hours in excess of 8 shall be paid at double time, inclusive of benefits.

SHIFT DIFFERENTIAL (Maintenance Work Only):

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 10% per hour.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 15% per hour.

OVERTIME (Maintenance Work Only):

- All hours in excess of 8 per day, Monday through Saturday, shall be paid at time and one-half, inclusive of benefits. All hours on Sundays and holidays shall be paid at double time, inclusive of benefits.

NOTE: Maintenance work is work to repair, restore, or improve the efficiency of existing facilities. This does NOT apply to ANY new construction.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays are observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Plasterer

PREVAILING WAGE RATE

See Bricklayer, Stone Mason Rates

Craft: Plasterer

COMMENTS/NOTES

See BRICKLAYER, STONE MASON Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Plumber

PREVAILING WAGE RATE

	05/01/17
Foreman	W56.87 B33.84 T90.71
General Foreman	W60.56 B33.84 T94.40
Journeyman	W52.66 B33.84 T86.50

Craft: Plumber

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	30%	45%	55%	65%	75%					
Benefits	10.15	15.23	18.61	22.00	25.38					

Ratio of Apprentices to Journeymen - *

* Employers may employ 1 apprentice on any job where 1 or 2 journeymen are employed. Thereafter, 1 apprentice may be employed for every 4 journeymen.

Craft: Plumber

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job having 2 or more Plumbers, 1 must be designated a Foreman.
- On any job having 9 or more Plumbers, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must continue for a minimum of 5 consecutive workdays.
- When two shifts are worked, the second shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 10%, inclusive of benefits.
- When a third shift is worked, the third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 15%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays, shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Roofer

PREVAILING WAGE RATE

	06/02/17
Foreman	W37.02 B25.78 T62.80
Journeyman	W36.02 B25.78 T61.80

Craft: Roofer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	14.40	18.01	21.61	25.21	28.82	32.42				
Benefits	2.13	2.13	23.03	23.03	23.03	23.03				

Ratio of Apprentices to Journeymen - *

* [A] For roofing jobs that are of the 1 or single ply nature: 1:2 or fraction thereof.

[B] For roofing jobs on new built up roofs: 1:3 or fraction thereof.

[C] For roofing jobs that are of a tear-off nature: 1:2 or fraction thereof.

[D] For re-roofing jobs (not requiring complete removal of existing systems; installation done over existing roof): 1:3 or fraction thereof.

Craft: Roofer

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 4-1-17:

INTERVAL	PERIOD AND RATES								
6 Months	14.40	18.01	21.61	23.41	25.21	27.01	28.82	32.42	
Benefits	2.13	2.13	23.03	23.03	23.03	23.03	23.03	23.03	

Pitch: +.50 per hour

Mop Man: +.30 per hour

The regular workday consists of 8 hours between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Sheet Metal Sign Installation

PREVAILING WAGE RATE

	07/28/17
Foreman	W27.03 B22.76 T49.79
Journeyman	W25.03 B22.76 T47.79

Craft: Sheet Metal Sign Installation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	40%	45%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:2

Craft: Sheet Metal Sign Installation

COMMENTS/NOTES

HAZARDOUS DUTY:

Sign Installers working from a bosun's chair or outside swinging scaffold at a height of 60 feet or more: + \$5.00 per hour.

FOREMAN REQUIREMENTS:

When there are 3 or more Sign Installers on a job, one must be designated a Foreman.

The regular workday shall be 8 hours, between 8:00 AM and 5:00 PM.

OVERTIME:

Hours in excess of 8 per day, or outside the regular workday, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at time and one-half the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Sheet Metal Worker

PREVAILING WAGE RATE

	06/09/17
Foreman (1 - 2 workers)	W36.70 B35.40 T72.10
Foreman (16+ workers)	W39.42 B35.40 T74.82
Foreman (3 - 7 workers)	W38.06 B35.40 T73.46
Foreman (8 - 15 workers)	W38.74 B35.40 T74.14
Journeyman	W33.98 B35.40 T69.38

Craft: Sheet Metal Worker

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	45%	50%	55%	60%	65%	70%	75%	85%		
Benefits	12.09	12.09	20.32	20.32	20.32	20.32	20.32	20.32		

Ratio of Apprentices to Journeymen - 1:4

Craft: Sheet Metal Worker

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- Foremen shall be paid the rate indicated, based on the number of Sheet Metal Workers on the project.
- If there is only 1 Sheet Metal Worker on the project, he/she must be classified as a Foreman.

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive 8 hours pay for 8 hours of work.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- The rate of pay for all shiftwork shall be an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

The first 2 hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and the first 10 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

in excess of 10 per day, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Good Friday, Memorial Day, July 4th, Labor Day, General Election Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Sprinkler Fitter

PREVAILING WAGE RATE

	04/01/17	04/01/18
Foreman	W51.90 B22.98 T74.88	W53.00 B23.98 T76.98
General Foreman	W54.15 B22.98 T77.13	W55.25 B23.98 T79.23
Journeyman	W49.15 B22.98 T72.13	W50.25 B23.98 T74.23

Craft: Sprinkler Fitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%
Benefits	7.90	7.90	14.87	14.87	14.87	14.87	14.87	14.87	14.87	14.87

Ratio of Apprentices to Journeymen - 1:1

Craft: Sprinkler Fitter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- There must be a Foreman on all projects. If there is only 1 Sprinkler Fitter on the project, he/she shall be designated a Foreman.
- On any job with 22 or more Sprinkler Fitters 1 shall be designated a General Foreman.

The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd and/or 3rd shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Tile Finisher-Marble

PREVAILING WAGE RATE

	01/01/18
Finisher	W46.66 B34.18 T80.84

Craft: Tile Finisher-Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	65%	70%	75%	85%	90%	95%		

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Finisher-Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Tile Setter - Ceramic

PREVAILING WAGE RATE

	12/04/17
Finisher	W44.14 B29.76 T73.90
Setter	W57.27 B33.02 T90.29

Craft: Tile Setter - Ceramic

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Ceramic

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Saturdays after 10 hours shall be paid double the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Tile Setter - Marble

PREVAILING WAGE RATE

	01/01/18
Tile Setter	W58.53 B36.37 T94.90

Craft: Tile Setter - Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	65%	70%	75%	85%	90%	95%		

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Tile Setter - Mosaic & Terrazzo

PREVAILING WAGE RATE

	01/01/18
Grinder or Assistant	W53.45 B34.90 T88.35
Mechanic	W55.05 B34.92 T89.97
Terrazzo Resinous Worker	W45.90 B28.27 T74.17

Craft: Tile Setter - Mosaic & Terrazzo

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	60%	65%	70%	75%	85%	95%	100%	

Ratio of Apprentices to Journeymen - 1:5

Craft: Tile Setter - Mosaic & Terrazzo

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON OR AFTER 1-1-18:

INTERVAL	PERIOD AND RATES							
1500 Hours	35%	45%	60%	70%	80%	90%	100%	

The regular workday consists of 7 hours, between 8:00 AM and 3:30 PM.

OVERTIME:

- Hours in excess of 7 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Monday after Easter, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Truck Driver

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Bucket, Utility, Pick-up, Fuel Delivery trucks	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Dump truck, Asphalt Distributor, Tack Spreader	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Euclid-type vehicles (large, off-road equipment)	W36.98 B34.58 T71.56	W37.41 B35.40 T72.81	W37.81 B35.80 T73.61
Helper on Asphalt Distributor truck	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Slurry Seal, Seeding/Fertilizing/ Mulching truck	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Straight 3-axle truck	W36.88 B34.58 T71.46	W37.31 B35.40 T72.71	W37.71 B35.80 T73.51
Tractor Trailer (all types)	W36.98 B34.58 T71.56	W37.41 B35.40 T72.81	W37.81 B35.80 T73.61
Vacuum or Vac-All truck (entire unit)	W36.83 B34.58 T71.41	W37.26 B35.40 T72.66	W37.66 B35.80 T73.46
Winch Trailer	W37.08 B34.58 T71.66	W37.51 B35.40 T72.91	W37.91 B35.80 T73.71

Craft: Truck Driver

COMMENTS/NOTES

BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate" which shall be 80% of the above-listed wage rates, plus the full benefit rate. This rate shall be used when the driver "round robins" for a minimum of 6 hours during the work day.

HAZARDOUS WASTE REMOVAL:

- On hazardous waste removal work on a State designated hazardous waste site where the driver is in direct contact with hazardous materials and when personal protective equipment is required for respiratory, skin, and eye protection, the driver shall receive an additional \$3.00 per hour (with or without protective gear).
- A hazardous waste related certified worker at a designated hazardous waste site who is not working in a zone requiring level A, B or C personal protection shall receive an additional \$1.00 per hour.

TRUCK FOREMAN: \$.75 cents per hour above regular rate. Overtime shall be increased accordingly.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

The regular workday shall be 8 hours, starting between 6:00 AM and 8:00 AM.

SHIFT DIFFERENTIAL:

- Shifts starting at 4:00 PM (2nd Shift): + \$2.50 per hour.
- Shifts starting at 12:00 AM (midnight/3rd Shift): time and one-half the hourly rate.
- Shifts starting at a time other than from 6:00 AM to 8:00 AM, when such hours are mandated by the project owner: + \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Employees may work four 10-hour days at straight time, Monday through Thursday, with Friday used as a make-up day for a lost day. If Friday is not a make-up day, then all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day (Decoration Day), July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans' Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Truck Driver-Material Delivery Driver

PREVAILING WAGE RATE

	05/01/12
Driver	W22.90 B10.17 T33.07

Craft: Truck Driver-Material Delivery Driver

COMMENTS/NOTES

BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate". See the "Truck Driver" craft for the blended rates.

Truck Foreman/Shop Steward: +\$0.25 per hour

SHIFT DIFFERENTIALS:

- 2nd Shift shall receive an additional \$0.50 per hour
- 3rd Shift shall receive time and one-half the hourly rate.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day (Decoration Day), July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans' Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - WARREN

Craft: Welder

PREVAILING WAGE RATE

Welder

Craft: Welder

COMMENTS/NOTES

Welders rate is the same as the craft to which the welding is incidental .

STATEWIDE RATES

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) * receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumpcrete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Asphalt Curbing Machine

Asphalt Plant Engineer

Asphalt Spreader

Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)

Autograde Curecrete Machine (CMI & similar types)

Autograde Tube Finisher & Texturing Machine (CMI & similar types)

Bar Bending Machines (Power)

Batcher, Batching Plant, & Crusher [On Site]

Belt Conveyor System

Boom-Type Skimmer Machine

Bridge Deck Finisher

Bulldozer (all sizes)

Captain (Power Boats)

Car Dumper (railroad)

Compressor & Blower unit for loading/unloading of concrete,
cement, fly ash, or similar type materials (used independently
or truck-mounted)

Compressor (2 or 3 battery)

Concrete Breaking Machine

Concrete Cleaning/Decontamination Machine

Concrete Finishing Machine

Concrete Saw or Cutter (ride-on type)

Concrete Spreader (Hetzl, Rexomatic & similar types)

Concrete Vibrator

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Conveyors - under 125 feet

Crane Signalman

Crushing Machine

Directional Boring Machine

Ditching Machine - Small (Ditchwitch, Vermeer or similar types)

Dope Pot - Mechanical (with or without pump)

Dumpster

Elevator

Fireman

Fork Lift (Economobile, Lull & similar types)

Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)

Generator (2 or 3 battery)

Giraffe Grinder

Goldhofer/Hydraulic Jacking Trailer

Grader & Motor Patrols

Grout Pump

Gunnite Machine (Excluding nozzle)

Hammer - Vibratory (in conjunction with generator)

Heavy Equipment Robotics - Operator/Technician

Hoist (roof, tugger, aerial platform hoist, house car)

Hopper

Hopper Doors (power operated)

Ladder (motorized)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Laddervator

Locomotive (Dinky-type)

Maintenance Utility Man

Master Environmental Maintenance Technician

Mechanic

Mixer (Except paving mixers)

Pavement Breaker (truck-mounted or small self-propelled
ride-on type)

Pavement Breaker - maintenance of compressor or hydraulic unit

Pipe Bending Machine (power)

Pitch Pump

Plaster Pump (regardless of size)

Post Hole Digger (post pounder, auger)

Rod Bending Machines

Roller (black top)

Scale (power)

Seamen Pulverizing Mixer

Shoulder Widener

Silo

Skimmer Machine (boom type)

Steel Cutting Machine (service & maintenance)

Tamrock Drill

Tractor

Transfer Machines

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System -
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.31	31.70	83.01	84.36	85.36	87.71

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Autograde Pavement Profiler (CMI & similar types)

Autograde Pavement Profiler - Recycle Type (CMI & similar types)

Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)

Autograde Slipform Paver (CMI & similar types)

Backhoe (Excavator)

Central Power Plant

Concrete Paving Machine

Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.

Draglines

Drill, Bauer, AMI and similar types

Drillmaster, Quarrymaster

Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill

Elevator Grader

Field Engineer-Chief of Party

Front End Loader (5 cu. yards or larger)

Gradall

Grader, Rago

Helicopter Co-Pilot

Helicopter Communications Engineer

Juntann Pile Driver

Locomotive (large)

Mucking Machine

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Pavement & Concrete Breaker (Superhammer & Hoe Ram)

Pile Driver

Prentice Truck

Roadway Surface Grinder

Scooper (loader & shovel)

Shovel (Excavator)

Trackhoe (Excavator)

Tree Chopper with boom

Trenching Machine (cable plow)

Tunnel Boring Machine

Vacuum Truck

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Chipper

Compressor (single)

Concrete Spreader (small type)

Conveyor Loader (Except elevator graders)

Engines, Large Diesel (1620 HP) & Staging Pump

Farm Tractor

Fertilizing Equipment (operation & maintenance)

Fine Grade Machine (small type)

Form Line Grader (small type)

Front End Loader (under 1 cubic yard)

Generator (single)

Grease, Gas, Fuel, & Oil Supply Trucks

Heaters (Nelson or other type)

Lights - portable generating light plant

Mixer, Concrete (small)

Mulching Equipment (operation & maintenance)

Power Broom or Sweeper

Pump (diesel engine & hydraulic - regardless of power)

Pump (larger than 2 inch suction, including submersible pumps)

Road Finishing Machine (small type)

Roller - grade, fill, or stone base

Seeding Equipment (operation & maintenance)

Sprinkler & Water Pump Trucks

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including
proprane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and
maintenance)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.39	31.70	84.09	85.44	86.44	88.79

CLASSIFICATIONS:

Helicopter Pilot/Engineer

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.07	31.70	88.77	90.12	91.12	93.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
56.07	31.70	87.77	89.12	90.12	92.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to
139 ft.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.57	31.70	84.27	85.62	86.62	88.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
55.07	31.70	86.77	88.12	89.12	91.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.57	31.70	83.27	84.62	85.62	87.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

	01/01/2018		07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.20	31.70	85.90	87.25	88.25	90.60

CLASSIFICATIONS:

Helicopter Co-Pilot & Communications Engineer

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.14	31.70	81.84	83.19	84.19	86.54

CLASSIFICATIONS:

A-Frame

Cherry Picker -10 tons or less (Over 10 tons use crane rate)

Hoist (all types Except Chicago-boom)

Jack (screw, air hydraulic, power-operated unit or console
type, Except hand jack or pile load test type)

Side Boom

Straddle Carrier

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.48	31.70	79.18	80.53	81.53	83.88

CLASSIFICATIONS:

Aerial Platform Used On Hoists

Apprentice Engineer/Oiler with Compressor or Welding Machine

Captain (Power Boats)

Compressor (2 or 3 in battery)

Concrete Cleaning/Decontamination Machine Operator

Conveyor or Tugger Hoist

Directional Boring Machine

Elevator or House Car

Fireman

Forklift

Generator (2 or 3)

Heavy Equipment Robotics, Operator/Technician

Maintenance Utility Man

Master Environmental Maintenance Technician

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician

Vacuum Blasting Machine Operator/Maintenance Technician

Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.95	31.70	77.65	79.00	80.00	82.35

CLASSIFICATIONS:

Compressor (Single)

Generators

Welding Machines, Gas, Diesel, Or Electric Converters of any type-single

Welding System, Multiple (Rectifier Transformer Type)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
44.19	31.70	75.89	77.24	78.24	80.59

CLASSIFICATIONS:

Assistant Engineer/Oiler

Drillers Helper

Field Engineer - Transit/Instrument Man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Off Road Back Dump

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.76	31.70	83.46	84.81	85.81	88.16

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.90	31.70	82.60	83.95	84.95	87.30

CLASSIFICATIONS:

Field Engineer-Chief of Party

Vacuum Truck

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
59.09	31.70	90.79	92.14	93.14	95.49

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.43	31.70	89.13	90.48	91.48	93.83

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.93	31.70	84.63	85.98	86.98	89.33

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION Rates Expiration Date : 03/31/2020

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Helicopter Pilot & Engineer

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST **Rates Expiration Date : 03/31/2020**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Driller's Helper

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.00	29.73	71.73	73.03	75.78	78.28

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.70	29.73	71.43	72.73	75.48	77.98

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.20	29.73	70.93	72.23	74.98	77.48

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.70	29.73	73.43	74.73	77.48	79.98

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.65	29.73	70.38	71.68	74.43	76.93

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.30	29.73	70.03	71.33	74.08	76.58

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.15	29.73	69.88	71.18	73.93	76.43

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

DRILL FOR GROUND WATER SUPPLY **Rates Expiration Date : 03/31/2020**

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
49.32	31.70	81.02	82.37	83.37	85.72

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
42.48	31.70	74.18	75.53	76.53	78.88

CLASSIFICATIONS:

Driller's Helper

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

OVERTIME:

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

10/01/2017

Rate	Fringe	Total
38.18	14.33	52.51

CLASSIFICATIONS:

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

Effective Dates:

10/01/2017

Rate	Fringe	Total
33.03	13.92	46.95

CLASSIFICATIONS:

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

Effective Dates:

10/01/2017

Rate	Fringe	Total
31.09	13.77	44.86

CLASSIFICATIONS:

Certified Welder

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

Effective Dates:

10/01/2017

Rate	Fringe	Total
30.24	13.40	43.64

CLASSIFICATIONS:

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

Effective Dates:

10/01/2017

Rate	Fringe	Total
29.26	13.32	42.58

CLASSIFICATIONS:

Boat Operator

Effective Dates:

10/01/2017

Rate	Fringe	Total
24.30	12.62	36.92

CLASSIFICATIONS:

Shoreman, Deckhand, Rodman, Scowman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL **Rates Expiration Date : 02/28/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem
IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.

SHIFT DIFFERENTIALS:

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

OVERTIME:

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

Effective Dates:

03/01/2017

Rate	Fringe	Total
36.50	21.27	57.77

CLASSIFICATIONS:

Foreman

Effective Dates:

03/01/2017

Rate	Fringe	Total
33.80	21.27	55.07

CLASSIFICATIONS:

Box man

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Microsurface/Slurry Preparation

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Squeegee man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL Rates Expiration Date : 02/28/2018

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

CLASSIFICATIONS:

Cleaner, Taper

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Paving Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.05	29.73	69.78	71.08	73.83	76.33

CLASSIFICATIONS:

Head Raker

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.90	29.73	69.63	70.93	73.68	76.18

CLASSIFICATIONS:

Raker, Screedman, Luteman

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.65	29.73	69.38	70.68	73.43	75.93

CLASSIFICATIONS:

Tampers, Smoothers, Kettlemen,
Painters, Shovelers, Roller Boys

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

Milling Controller

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Traffic Control Coordinator

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH **Rates Expiration Date : 10/16/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

SHIFT DIFFERENTIAL:

Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$1.00 per hour.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Hazardous Waste Pay (for Levels A, B, and C): an additional 10% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:

- 1st year on the job - 70% of Helper wage rate
- 2nd year on the job - 80% of Helper wage rate
- 3rd year on the job - 90% of Helper wage rate
- All helpers receive full fringe benefit rate.

Effective Dates:

10/17/2017

Rate	Fringe	Total
31.62	25.55	57.17

CLASSIFICATIONS:

Helper (4th year helper)

Effective Dates:

10/17/2017

Rate	Fringe	Total
39.69	25.55	65.24

CLASSIFICATIONS:

Driller

Effective Dates:

10/17/2017

Rate	Fringe	Total
45.73	25.55	71.28

CLASSIFICATIONS:

Foreman

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; traffic control coordinator; asphalt raker or lute man

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

"A" Rate:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

"GENERAL FOREMAN" Rate

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

wagon drill or drill master helper; powder carrier; magazine tender; signal man

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

wagon or directional drill operator; drill master

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

general foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; gunite nozzle man

PIPELINE - MAINLINE TRANSMISSION **Rates Expiration Date : 06/03/2018**

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$42.50; Pipeline Journeyman Welder: \$102.50; and Pipeline Helper: \$42.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
 - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
 - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman Welder

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

PIPELINE - MAINLINE TRANSMISSION Rates Expiration Date : 06/03/2018

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

06/05/2017

Rate	Fringe	Total
33.27	19.97	53.24

CLASSIFICATIONS:

Pipeline Helper

PIPELINE - GAS DISTRIBUTION **Rates Expiration Date : 10/31/2020**

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

SHIFT DIFFERENTIALS:

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman Welder

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
37.68	16.74	54.42	56.00	57.67

CLASSIFICATIONS:

Pipeline Helper

ASPHALT LABORERS- NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Asphalt Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

Asphalt Screedman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Asphalt Raker or Lute Man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS- NORTH Rates Expiration Date : 02/28/2021

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

Asphalt Laborer

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Electrician-Utility Work (North)

(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).

These rates apply to work contracted for by the following utility companies:

Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.

These rates do not apply to work on substations or switching stations.

For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.

3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

Four 10-hour days may be worked, at straight time, between 7:00 AM and 6:30 PM, Monday through Thursday.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
53.70	35.97	89.67	92.06	94.45	96.84

CLASSIFICATIONS:

Chief Lineman

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Journeyman Lineman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Special License Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Transit Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
48.64	32.58	81.22	83.38	85.53	87.70

CLASSIFICATIONS:

Line Equipment Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
42.56	28.51	71.07	72.96	74.84	76.73

CLASSIFICATIONS:

Dynamite Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
63.33	42.43	105.76	108.56	111.38	114.19

CLASSIFICATIONS:

General Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
58.26	39.03	97.29	99.88	102.47	105.05

CLASSIFICATIONS:

Assistant General Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
56.74	38.01	94.75	97.27	99.79	102.32

CLASSIFICATIONS:

Line Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
41.04	27.49	68.53	70.35	72.17	73.99

CLASSIFICATIONS:

Street Light Mechanical Leader

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Winch Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Truck Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Street Light Mechanic

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Line Equipment Mechanic

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
32.93	22.06	54.99	56.46	57.91	59.38

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
30.40	20.36	50.76	52.12	53.47	54.80

CLASSIFICATIONS:

Groundman 1st Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Line Equipment Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North)", see the "Outside Commercial Rates" for the county in which the jobsite is located.

*** FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES**

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

RECOGNIZED HOLIDAYS:

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

WORKING RULES:

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

Effective Dates:

12/03/2017

Rate	Fringe	Total
60.25	46.05	106.30

CLASSIFICATIONS:

General Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
53.66	42.21	95.87

CLASSIFICATIONS:

Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
50.84	40.58	91.42

CLASSIFICATIONS:

Small Job Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Heavy Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Cable Splicer

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Lineman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Welder

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Painter

Effective Dates:

12/03/2017

Rate	Fringe	Total
37.66	32.92	70.58

CLASSIFICATIONS:

Light Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
32.95	30.18	63.13

CLASSIFICATIONS:

Groundman Truck Driver

Effective Dates:

12/03/2017

Rate	Fringe	Total
30.60	28.82	59.42

CLASSIFICATIONS:

Groundman 3rd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
28.24	27.44	55.68

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
25.89	26.08	51.97

CLASSIFICATIONS:

Groundman 1st Year

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date : 12/04/2021

Effective Dates:

12/03/2017

Rate	Fringe	Total
20.71	23.07	43.78

CLASSIFICATIONS:

Flagman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

****THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY****

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
63.00	29.73	92.73	94.41	97.91	101.16

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
62.55	29.73	92.28	93.96	97.46	100.71

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
61.80	29.73	91.53	93.21	96.71	99.96

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
65.55	29.73	95.28	96.96	100.46	103.71

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.98	29.73	90.71	92.38	95.88	99.13

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.45	29.73	90.18	91.86	95.36	98.61

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.23	29.73	89.96	91.63	95.13	98.38

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
59.63	29.73	89.36	91.03	94.53	97.78

CLASSIFICATIONS:

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)



STATE OF NEW JERSEY
Department of Labor and Workforce Development
Division of Wage and Hour Compliance - Public Contracts Section
PO Box 389
Trenton, NJ 08625-0389

PREVAILING WAGE RATE DETERMINATION

The New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25 et seq.) requires that the Department of Labor and Workforce Development establish and enforce a prevailing wage level for workers engaged in public works in order to safeguard their efficiency and general well being and to protect them as well as their employers from the effects of serious and unfair competition.

Prevailing wage rates are wage and fringe benefit rates based on the collective bargaining agreements established for a particular craft or trade in the locality in which the public work is performed. In New Jersey, these rates vary by county and by the type of work performed.

Applicable prevailing wage rates are those wages and fringe benefits in effect on the date the contract is awarded. All pre-determined rate increases listed at the time the contract is awarded must also be paid, beginning on the dates specified. Rates that have expired will remain in effect until new rates are posted.

Prevailing Wage Rate

The prevailing wage rate for each craft will list the effective date of the rate and the following information:

W = Wage Rate per Hour

B = Fringe Benefit Rate per Hour*

T = Total Rate per Hour

- * Fringe benefits are an integral part of the prevailing wage rate. Employers not providing such benefits must pay the fringe benefit amount directly to the employee each payday. Employers providing benefits worth less than the fringe benefit amount must pay the balance directly to the employee each payday.

Unless otherwise stated in the Prevailing Wage Rate Determination, the fringe benefit rate for overtime hours remains at the straight time rate.

When the Overtime Notes in the Prevailing Wage Rate Determination state that the overtime rates are "inclusive of benefits," the benefit rate is increased by the same factor as the wage rate (i.e. multiplied by 1.5 for time and one-half, multiplied by 2 for double time, etc.).

Apprentice Rate Schedule

An "apprentice" is an individual who is registered with the United States Department of Labor - Office of Apprenticeship and enrolled in a certified apprenticeship program during the period in which they are working on the public works project.

The apprentice wage rate is a percentage of the journeyman wage rate, unless otherwise indicated. The apprentice benefit rate is the full journeyman benefit rate, unless otherwise indicated.

If there is no apprentice rate schedule listed, the individual must be paid at least the journeyman rate even if that individual is in a certified apprentice program for that trade.

If there is no ratio of apprentices to journeymen listed for a particular craft, then the ratio shall be one (1) apprentice to every four (4) journeymen.

Comments/Notes

For each craft listed there will be comments/notes that cover the definition of the regular workday, shift differentials, overtime, recognized holidays, and any other relevant information.

Public Works Contractor Registration

The Public Works Contractor Registration Act (N.J.S.A. 34:11-56.48, et seq.) requires that **all** contractors, subcontractors, or lower tier subcontractors who are working on or who bid on public works projects register with the Department of Labor and Workforce Development. Applications are available at www.nj.gov/labor (click on Wage & Hour and then go to Registration & Permits).

Pursuant to N.J.S.A. 34:11-56.51:

No contractor shall bid on any contract for public work as defined in section 2 of P.L.1963, c. 150 (C.34:11-56.26) unless the contractor is registered pursuant to this act. No contractor shall list a subcontractor in a bid proposal for the contract unless the subcontractor is registered pursuant to P.L.1999, c.238 (C.34:11-56.48 et seq.) at the time the bid is made. No contractor or subcontractor, including a subcontractor not listed in the bid proposal, shall engage in the performance of any public work subject to the contract, unless the contractor or subcontractor is registered pursuant to that act.

Snow Plowing

Snow plowing contracts are not subject to the New Jersey Prevailing Wage Act or the Public Works Contractor Registration Act.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Air Conditioning & Refrigeration - Service and Repair

PREVAILING WAGE RATE

	03/01/18
Journeyman (Mechanic)	W37.98 B23.93 T61.91

Craft: Air Conditioning & Refrigeration - Service and Repair

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
As Shown	Mo. 1-3	Mo. 4-12	2nd Year	3rd Year	4th Year	5th Year		Wage = %	of Jnymn	Wage
Wage and Bene	50%	55%	60%	65%	75%	85%		Bene = %	of Jnymn	Bene

Ratio of Apprentices to Journeymen - 1:4

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 3-1-13:

INTERVAL	PERIOD AND RATES						
As Shown	1st Year	2nd Year	3rd Year	4th Year	5th Year		Wage =% of Jnymn Wage
Wage and Benefit	40%	50%	60%	70%	80%		Bene. =% of Jnymn Wage

Craft: Air Conditioning & Refrigeration - Service and Repair

COMMENTS/NOTES

THESE RATES MAY BE USED FOR THE FOLLOWING:

- Service/Repair/Maintenance Work to EXISTING facilities.
- Replacement or Installation of air conditioning and refrigeration equipment when the combined tonnage does not exceed 15 tons for refrigeration, or 25 tons for air conditioning.
- Replacement or Installation of "packaged" or "unitary" rooftop-type units when the combined tonnage of the units does not exceed 75 tons.

NOTE: These rates may NOT be used for any work in new construction (including work on new additions).

The regular workday shall consist of 8 hours, starting between 6:00 AM and 10:00 AM, Monday through Friday.

SHIFT DIFFERENTIALS:

- The second and third shifts shall be paid an additional 15% of the hourly rate.
- All shifts must run for a minimum of 5 consecutive days.

OVERTIME:

Hours worked in excess of 8 per day or before or after the regular workday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

PREVAILING WAGE RATE DETERMINATION

County - HUNTERDON

Craft: Boilermaker

PREVAILING WAGE RATE

	01/01/18
Foreman	W49.50 B42.52 T92.02
General Foreman	W51.50 B43.50 T95.00
Journeyman	W44.50 B40.92 T85.42

Craft: Boilermaker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	65%	70%	75%	80%	85%	90%	95%			
Benefit =	34.83	35.70	36.58	37.44	38.32	39.19	40.05			

Ratio of Apprentices to Journeymen - *

* 1 apprentice will be allowed for the first 5 journeymen, 1 apprentice for the next 10 journeymen and 1 apprentice for each succeeding 20 journeymen up to a maximum of 5 apprentices per contractor on any one job.

Craft: Boilermaker

COMMENTS/NOTES

HIGH WORK: All apprentices working on the erection, repair, or dismantling of smoke stacks, standpipes, or water towers shall be paid the Journeyman rate.

The regular workday shall consist of 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall work 7½ hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 10%.
- The third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 20%.
- For "Municipal Water Works" projects only, the following shall apply: Two, four day, 10 hour shifts may be worked at straight time Monday through Thursday. The day shift shall work four days, at 10 hours, for 10 hours pay. The second shift shall work four days, at nine and a half hours, for 10 hours pay, plus 10% the hourly rate for new work and .25 cents on repair work. Friday may be used as a make-up day at straight time, due to weather conditions, holiday or any other circumstances beyond the employer's control.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.
- If any other craft employed by the same contractor, or a subcontractor thereof, receives double time in lieu of time and one-half, then the Boilermaker shall receive double time in lieu of time and one-half.
- For "Municipal Water Works" projects only, the following shall apply: Four 10 hour days may be worked Monday through Thursday at straight time. Friday may be used as a make-up day for a day lost to inclement weather, holiday or other conditions beyond the control of the employer. Overtime shall be paid for any hours that exceed 10 hours per day or 40 hours per week.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Boilermaker - Minor Repairs

PREVAILING WAGE RATE

	01/01/18
Foreman	W33.54 B16.17 T49.71
General Foreman	W34.04 B16.17 T50.21
Mechanic	W32.04 B16.17 T48.21

Craft: Boilermaker - Minor Repairs

COMMENTS/NOTES

NOTE: These rates apply to MINOR REPAIR WORK ONLY (repair work in the field for which the contract amount does not exceed \$125,000.00).

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

PREVAILING WAGE RATE DETERMINATION

County - HUNTERDON

Craft: Bricklayer, Stone Mason

PREVAILING WAGE RATE

	05/01/17	05/01/18
Deputy Foreman	W44.10 B31.94 T76.04	W0.00 B0.00 T78.23
Foreman	W47.10 B31.94 T79.04	W0.00 B0.00 T81.23
Journeyman	W41.10 B31.94 T73.04	W0.00 B0.00 T75.23

Craft: Bricklayer, Stone Mason

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%	55%	60%	65%	70%	75%	80%		
Benefits	3.72	4.65	5.12	5.58	20.48	21.83	23.18	24.52		

Ratio of Apprentices to Journeymen - 1:5

Craft: Bricklayer, Stone Mason

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 5-1-17:

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%	55%	60%	65%	70%	75%	80%		
Benefits	3.80	4.75	5.23	5.70	21.16	22.55	23.95	25.33		

The regular workday shall consist of 8 hours, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the first, or day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 10%, inclusive of benefits.

OVERTIME:

- The first 2 hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. The first 10 hours on Saturday shall be paid at time and one-half the

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

- Saturday may be used as a make-up day for hours lost to inclement weather.

- When Bricklayers/Stone Masons work on Saturday with Laborers, and no other crafts are working on the project for the day, benefits may be paid at straight time. If other crafts are present, the applicable overtime rate for benefits shall be paid.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Carpenter

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Foreman	W55.11 B31.41 T86.52	W0.00 B0.00 T87.29	W0.00 B0.00 T88.54
Journeyman	W47.92 B27.31 T75.23	W0.00 B0.00 T76.48	W0.00 B0.00 T77.73

Craft: Carpenter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57% of	Appren	tice	Wage Rate	for all	intervals				

Ratio of Apprentices to Journeymen - 1:3

Craft: Carpenter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Carpenter - Resilient Flooring

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Foreman	W55.11 B31.41 T86.52	W0.00 B0.00 T87.29	W0.00 B0.00 T88.54
Journeyman	W47.92 B27.31 T75.23	W0.00 B0.00 T76.48	W0.00 B0.00 T77.73

Craft: Carpenter - Resilient Flooring

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57%	of	Appren	tice	Wage Rate	for all	intervals			

Ratio of Apprentices to Journeymen - *

* 1 apprentice shall be allowed to every 2 journeymen or major fraction thereof. No more than 3 apprentices on any one job or project.

Craft: Carpenter - Resilient Flooring

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job where there are 4 or more Carpenters of Resilient Flooring, 1 must be designated a Foreman.

FOR SYNTHETIC TURF INSTALLATION ONLY:

- The rate shall be 90% of the wage and benefit rate.

The regular workday consists of 8 hours, starting between 6:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular wage rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular wage rate, the second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.

OVERTIME:

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Cement Mason

PREVAILING WAGE RATE

See "Bricklayer, Stone Mason" Rates

Craft: Cement Mason

COMMENTS/NOTES

See "Bricklayer, Stone Mason" Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Diver

PREVAILING WAGE RATE

	12/13/17	05/01/18	11/01/18
Diver	W57.54 B45.57 T103.11	W0.00 B0.00 T104.36	W0.00 B0.00 T105.61
Tender	W45.80 B45.57 T91.37	W0.00 B0.00 T92.62	W0.00 B0.00 T93.87

Craft: Diver

COMMENTS/NOTES

NOTE: All dive crews must consist of a Tender, a Diver, and a standby Diver (standby Diver is the same rate as a Diver).

DEPTH & PENETRATION RATES: Divers shall be paid the following depth and penetration rates, in addition to the regular hourly rate, when applicable:

AIR DIVES:

0-59 feet: No additional wage
60-74 feet: + \$0.25 per foot
75-125 feet: + \$0.78 per foot

MIXED GAS DIVES:

0-74 feet: No additional wage
75-125 feet: + \$1.00 per foot
126-200 feet: + \$2.00 per foot

PENETRATION DIVES:

126-200 feet: + \$1.50 per foot
201-275 feet: + \$1.75 per foot
276-350 feet: + \$2.00 per foot
351-425 feet: + \$2.50 per foot

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Dockbuilder

PREVAILING WAGE RATE

	12/13/17	05/01/18	11/01/18
Foreman	W52.67 B45.57 T98.24	W0.00 B0.00 T99.24	W0.00 B0.00 T100.49
Foreman (Concrete Form Work)	W51.87 B32.46 T84.33	W0.00 B0.00 T85.35	W0.00 B0.00 T86.60
Journeyman	W45.80 B45.57 T91.37	W0.00 B0.00 T92.62	W0.00 B0.00 T93.87
Journeyman (Concrete Form Work)	W45.10 B32.46 T77.56	W0.00 B0.00 T78.81	W0.00 B0.00 T80.06

Craft: Dockbuilder

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	18.32	22.90	29.77	36.64						
Benefit	30.57	for all	intervals							

Ratio of Apprentices to Journeymen - *

* When there are 4 or fewer Dockbuilders on a job, no more than 1 may be an apprentice. When there are 5 or more Dockbuilders, there may be 1 apprentice for every 5 Dockbuilders.

Craft: Dockbuilder

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL	PERIOD AND RATES			
Yearly	18.04	22.55	29.32	36.08
Benefits	22.46 for all intervals			

CREOSOTE HANDLING:

When handling creosote products on land piledriving, floating marine construction, and construction of wharves, the worker shall receive an additional \$0.25 per hour.

HAZARDOUS WASTE WORK:

- Hazardous waste removal work on a state or federally designated hazardous waste site where Level A, B, or C personal protection is required: an additional 20% of the hourly rate, per hour.
- Hazardous waste removal work in Level D, or where personal protection is not required: an additional \$1.00 per hour.

CERTIFIED WELDER: When required on the job by the project owner, a Certified Welder shall receive an additional \$1.00 per hour.

FOREMAN REQUIREMENTS:

The first Dockbuilder on the job shall be designated a Foreman.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Drywall Finisher

PREVAILING WAGE RATE

	05/01/17
Foreman	W43.45 B23.60 T67.05
General Foreman	W45.43 B23.60 T69.03
Journeyman	W39.50 B23.60 T63.10

Craft: Drywall Finisher

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits	Intervals	1 to 3 =	9.85	Intervals	4 to 6 =	12.28	Intervals	7 to 9 =	14.95	

Ratio of Apprentices to Journeymen - 1:4

Craft: Drywall Finisher

COMMENTS/NOTES

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

PREVAILING WAGE RATE DETERMINATION

County - HUNTERDON

Craft: Electrician

PREVAILING WAGE RATE

	05/29/17	05/28/18
Cable Splicer	W60.08 B34.53 T94.61	W61.52 B35.35 T96.87
Foreman	W61.17 B35.15 T96.32	W62.64 B35.98 T98.62
Journeyman	W54.62 B31.39 T86.01	W55.93 B32.13 T88.06

Craft: Electrician

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	49%	58%	68%	80%		of Jour	neyman	Wage	Rate
Benefit	40%	49%	58%	68%	80%		of Jour	neyman	Benefit	Rate

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician

COMMENTS/NOTES

THESE RATES ALSO APPLY TO THE FOLLOWING:

- All burglar and fire alarm work.
- All fiber optic work.
- Teledata work in new construction.
- Teledata work involving 16 Voice/Data Lines or more.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

- On any job where there are 1 to 10 Journeymen electricians, 1 shall be designated a Foreman.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

PREVAILING WAGE RATE

	11/15/17	10/29/18	10/28/19	11/02/20
Master	W53.52	W54.86	W56.16	W57.42
Technician/General	B29.43	B30.17	B30.89	B31.58
Foreman	T82.95	T85.03	T87.05	T89.00
Senior Technician/Lead	W48.99	W50.22	W51.41	W52.56
Foreman	B26.94	B27.62	B28.27	B28.91
(21-30 Workers on Job)	T75.93	T77.84	T79.68	T81.47
Technician A/Foreman	W46.93	W48.11	W49.25	W50.35
(11-20 Workers on Job)	B25.81	B26.46	B27.08	B27.69
	T72.74	T74.57	T76.33	T78.04
Technician B/Working	W44.88	W46.00	W47.09	W48.15
Foreman	B24.67	B25.30	B25.90	B26.47
(4-10 Workers on Job)	T69.55	T71.30	T72.99	T74.62
Technician C/Journeyman	W41.17	W42.20	W43.20	W44.17
(1-3 Workers on Job)	B22.64	B23.21	B23.76	B24.29
	T63.81	T65.41	T66.96	T68.46

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months					66%	72%	79%	86%		
Benefits					11.81	12.89	14.14	15.40		

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 10-31-14:

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>										
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%	
Benefits	6.76	6.76	7.16	7.70	8.59	9.66	10.82	11.99	13.25	14.51	

NOTES:

- These rates are for service, maintenance, moves, and/or changes affecting 15 Voice/Data (teledata) lines or less. These rates may NOT be used for any teledata work in new construction (including additions) or any fiber optic work.
- The number of Teledata workers on the jobsite is the determining factor for which Foreman category applies.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Electrician - Teledata (16 Instruments & More)

PREVAILING WAGE RATE

See "Electrician" Rates

Craft: Electrician - Teledata (16 Instruments & More)

COMMENTS/NOTES

See ELECTRICIAN Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Electrician- Outside Commercial

PREVAILING WAGE RATE

	05/29/17	05/28/18
Cable Splicer	W60.37 B34.24 T94.61	W61.82 B35.06 T96.88
Certified Welder	W57.62 B32.68 T90.30	W59.01 B33.47 T92.48
Equipment Operator	W54.88 B31.13 T86.01	W56.20 B31.88 T88.08
Foreman (1-10 Journeyman workers on job)	W61.47 B34.86 T96.33	W62.94 B35.70 T98.64
Foreman (11-20 Journeyman workers on job)	W63.11 B35.79 T98.90	W64.63 B36.66 T101.29
General Foreman (21-30 Journeyman workers on job)	W64.76 B36.73 T101.49	W66.32 B37.61 T103.93
General Foreman (31-60 Journeyman workers on job)	W70.25 B39.84 T110.09	W71.94 B40.80 T112.74
General Foreman (61+ Journeyman workers on job)	W71.34 B40.46 T111.80	W73.06 B41.44 T114.50
Groundman	W32.93 B18.68 T51.61	W33.72 B19.13 T52.85
Journeyman Lineman/Technician	W54.88 B31.13 T86.01	W56.20 B31.88 T88.08
Sub-Foreman	W61.47 B34.86 T96.33	W62.94 B35.70 T98.64

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Electrician- Outside Commercial

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	56.4% of	Journey	man	wage	+ \$.01					

Craft: Electrician- Outside Commercial

COMMENTS/NOTES

EFFECTIVE 5-30-16- The apprentice benefit rate shall be 56.7% + \$.01.

EFFECTIVE 5-29-17- The apprentice benefit rate shall be 56.7% + \$.01.

EFFECTIVE 5-28-18- The apprentice benefit rate shall be 56.7% + \$.01.

* FOR UTILITY WORK PLEASE SEE STATEWIDE RATES

The regular workday shall consist of 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS::

On any job where there are 2 Journeymen, one shall be a Foreman. The following number of Foreman, General Foreman, Assistant General Foreman and Sub-Foreman shall be required with respect to number of Journeymen on site:

2-10 Journeymen (1 Foreman)

11-20 Journeymen (1 Foreman and 1 Sub-Foreman)

21-30 Journeymen (1 Foreman and 2 Sub-Foreman)

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate per hour, inclusive of benefits.

3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday Monday through Friday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on

Sundays and Holidays shall be paid at double the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Electrician-Utility Work (North)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (North)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
* 6 Months	60%	65%	70%	75%	80%	85%	90%			
Benefits	67% of	Appren	tice	Wage	Rate	for all	intervals			

Craft: Electrician-Utility Work (North)

COMMENTS/NOTES

Electrician-Utility Work (North) rates are located in the "Statewide" rate package.

* The apprentice wage rate is paid at the percentage of the Journeyman Lineman wage rate located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Electrician-Utility Work (South)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (South)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	28.24	30.60	32.95	35.30	37.66	40.01	42.36			
Benefits	24.29	25.67	27.03	28.40	29.77	31.13	32.51			

Craft: Electrician-Utility Work (South)

COMMENTS/NOTES

Electrician-Utility Work (South) rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Elevator Constructor

PREVAILING WAGE RATE

	03/17/17	03/17/18
Journeyman	W62.64 B41.56 T104.20	W64.48 B43.36 T107.84

Craft: Elevator Constructor

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	27.95	34.45	40.72	46.98						
Benefits	33.31	34.46	36.04	37.61						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Constructor

COMMENTS/NOTES

The regular workday shall consist of either 7 or 8 hours to be established at the beginning of the project, between 7:00 AM and 4:30 PM.

OVERTIME:

For all hours worked before or after the regular workday, Monday through Friday, and for all hours on Saturday and Sunday, shall be paid at double the hourly rate. Holiday pay is one days wages (8 hours) plus double the hourly rate for all hours worked.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Elevator Modernization & Service

PREVAILING WAGE RATE

	03/17/17	03/17/18
Journeyman	W49.14 B39.91 T89.05	W50.49 B41.66 T92.15

Craft: Elevator Modernization & Service

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	27.95	27.03	31.94	36.86						
Benefits	33.23	33.57	34.97	36.37						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Modernization & Service

COMMENTS/NOTES

MODERNIZATION (addition, replacement, refurbishing, relocation, or changes in design or appearance, of elevator equipment in existing buildings):

- The regular workday consists of 8 hours, between 7:00 AM and 4:30 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday shall be paid at time and one-half the hourly rate. Holiday pay is one days wages (8 hours) plus time and one-half the hourly rate for all hours worked.

SERVICE (repair or replacement of parts for the purpose of maintaining elevator equipment in good operating condition):

- The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS (Modernization and Service): New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Glazier

PREVAILING WAGE RATE

	05/25/17	05/01/18	05/01/19
Foreman	W48.81 B23.62 T72.43	W50.81 B23.62 T74.43	W52.81 B23.62 T76.43
General Foreman	W50.81 B23.75 T74.56	W52.81 B23.75 T76.56	W54.81 B23.75 T78.56
Journeyman	W44.81 B23.36 T68.17	W46.81 B23.36 T70.17	W48.81 B23.36 T72.17

Craft: Glazier

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	50%	55%	60%	65%	70%	75%	80%	90%		
Benefits	8.85	8.85	11.46	11.46	12.88	12.88	16.37	16.37		

Ratio of Apprentices to Journeymen - 1:4

Craft: Glazier

COMMENTS/NOTES

Hazard/Height Pay: +\$1.00 per hour

FOREMAN REQUIREMENTS:

- When there are 4 or more Glaziers on a job, 1 must be designated a Foreman.
- When there are 15 or more Glaziers on a job, 1 must be designated a General Foreman.

The regular workday shall consist of 8 hours, between 7:00 AM and 5:30 PM, Monday to Friday.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

PREVAILING WAGE RATE DETERMINATION

County - HUNTERDON

Craft: Heat & Frost Insulator

PREVAILING WAGE RATE

	07/07/17	07/01/18	07/01/19	07/01/20
Foreman	W43.32 B33.93 T77.25	W0.00 B0.00 T80.00	W0.00 B0.00 T83.75	W0.00 B0.00 T87.00
Journeyman	W42.32 B33.93 T76.25	W0.00 B0.00 T79.00	W0.00 B0.00 T82.25	W0.00 B0.00 T85.50

Craft: Heat & Frost Insulator

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	45%	55%	65%	75%	80%					
Benefit	30.68	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* Ratio = 1:4 on a "company-wide" basis (i.e. the total number of apprentices and journeymen employed by the company). There is no limit to the number of apprentices allowed on any one job, provided there is at least 1 journeyman on the job.

Craft: Heat & Frost Insulator

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- If there is only 1 Insulator on the job, he must be designated a Foreman.
- If there are 2 to 10 Insulators on the job, 1 must be designated a Foreman.
- If there are 11 or more Insulators on the job, 1 must be designated a General Foreman and receive the following additional pay (% above Journeyman wage rate):
 - 11 - 20 Insulators on site: 10%; 21 - 30 Insulators on site: 15%;
 - 31 - 40 Insulators on site: 20%; 41 - 50 Insulators on site: 25%

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of two (2) consecutive days and a minimum of two (2) shifts per day must be worked. Additionally, no less than two (2) employees may work on any one (1) shift. If these requirements are not met then shift work would not apply and the applicable overtime rate shall be paid.
- 1st Shift (8:00 AM- 4:00 PM).
- 2nd Shift (4:00 PM - 12:00 AM): additional 15% of the regular rate, inclusive of benefits.
- 3rd Shift (12:00 AM - 8:00 AM): additional 20% of the regular rate, inclusive of benefits.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Heat & Frost Insulator - Asbestos Worker

PREVAILING WAGE RATE

	07/07/17	07/01/18	07/01/19	07/01/20
Foreman	W43.32 B33.93 T77.25	W0.00 B0.00 T80.00	W0.00 B0.00 T83.75	W0.00 B0.00 T87.00
Journeyman	W42.32 B33.93 T76.25	W0.00 B0.00 T79.00	W0.00 B0.00 T82.25	W0.00 B0.00 T85.50

Craft: Heat & Frost Insulator - Asbestos Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	Heat &	Frost	Insulator						

Craft: Heat & Frost Insulator - Asbestos Worker

COMMENTS/NOTES

NOTE: These rates apply only to the REMOVAL of insulation materials/asbestos from mechanical systems, including containment erection and demolition, and placing material in appropriate containers.

FOREMAN REQUIREMENTS:

- If there is only 1 Asbestos Worker on the job, he must be designated an Abatement Foreman.
- If there are 2 to 10 Asbestos Workers on the job, 1 must be designated an Abatement Foreman.
- If there are 11 or more Asbestos Workers on the job, 1 must be designated a General Foreman and receive the following additional pay (% above Abatement Mechanic wage rate):
 - 11 - 20 Insulators on site: 10%; 21 - 30 Insulators on site: 15%;
 - 31 - 40 Insulators on site: 20%; 41 - 50 Insulators on site: 25%

MECHANIC-TO-APPRENTICE RATIO:

- Maximum of 5 Apprentices for each Abatement Mechanic on the job.

OVERTIME:

- Hours in excess of 8 per day, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Ironworker

PREVAILING WAGE RATE

	07/14/17	07/01/18
Foreman: Fence and Guardrail	W54.43 B29.96 T84.39	W0.00 B0.00 T84.39
Foreman-Rod/Mesh	W54.43 B29.96 T84.39	W0.00 B0.00 T86.60
Foreman-Structural	W56.59 B29.96 T86.55	W0.00 B0.00 T88.77
Journeyman: Fence and Guardrail	W50.40 B29.96 T80.36	W0.00 B0.00 T80.36
Journeyman-Rod/Mesh	W50.40 B29.96 T80.36	W0.00 B0.00 T83.03
Journeyman-Structural	W52.40 B29.96 T82.36	W0.00 B0.00 T85.04

Craft: Ironworker

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	60%	75%	85%							

Ratio of Apprentices to Journeymen - *

* On all work EXCEPT Ornamental Iron and Bridge Cable Spinning Work 1:4; On Ornamental Iron and Bridge Cable Spinning Work 1:1.

Craft: Ironworker

COMMENTS/NOTES

Note: For work on hazardous waste sites, workers shall receive an additional \$3.00 per hour.

The regular workday shall consist of 8 hours between 7:00 AM and 5:00 PM.

SHIFT DIFFERENTIALS:

- Second shift shall receive an additional 10% per hour.
- Third shift shall receive an additional 15% per hour.

OVERTIME:

- Time and one-half the wage rate for hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and for all hours on Saturdays. Double the wage rate for all hours on Sundays and holidays.
- Employees may work four 10-hour days, Monday to Thursday, at straight time. Friday may be used as a make-up day

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

for a day lost to inclement weather. If Friday is not a make-up day, all hours worked on Friday shall be paid at time and one-half the wage rate.

- Benefits on overtime hours shall be paid at the following rates:

When wages are time and one-half, benefits = \$34.07.

When wages are double, benefits = \$38.17.

RECOGNIZED HOLIDAYS: New Year's Eve, New Year's Day, Memorial Day, July 4th, Labor Day, General and Presidential Election Day, Thanksgiving Day, Christmas Eve, Christmas Day. Saturday holidays observed the preceding Friday. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Laborer - Asbestos & Hazardous Waste Removal

PREVAILING WAGE RATE

	01/26/17
Journeyman (Handler)	W30.88 B21.91 T52.79

Craft: Laborer - Asbestos & Hazardous Waste Removal

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	18.53	21.62	24.70	27.79						
Benefit	20.26	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Asbestos & Hazardous Waste Removal

COMMENTS/NOTES

NOTE: These rates apply to work in connection with Asbestos, Radiation, Hazardous Waste, Lead, Chemical, Biological, Mold Remediation and Abatement.

The regular workday shall be 8 hours.

OVERTIME:

- Hours in excess of 8 per day, Monday through Saturday, and all hours on Sunday and holidays shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Good Friday, Easter, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. (Holidays start at 12:00 am).

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Laborer - Building

PREVAILING WAGE RATE

	11/01/17	05/01/18
Class A Journeyman	W32.90 B28.02 T60.92	W0.00 B0.00 T62.57
Class B Journeyman	W32.40 B28.02 T60.42	W0.00 B0.00 T62.07
Class C Journeyman	W27.54 B28.02 T55.56	W0.00 B0.00 T57.45
Foreman	W37.01 B28.02 T65.03	W0.00 B0.00 T66.48
General Foreman	W41.13 B28.02 T69.15	W0.00 B0.00 T70.40

Craft: Laborer - Building

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	60%	70%	80%	90%						
Benefit	24.77	24.77	24.77	24.77						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Building

COMMENTS/NOTES

CLASS A: Specialist laborer including mason tender or concrete pour crew; scaffold builder (scaffolds up to 14 feet in height); operator of forklifts, Bobcats (or equivalent machinery), jack hammers, tampers, motorized tampers and compactors, vibrators, street cleaning machines, hydro demolition equipment, riding motor buggies, conveyors, burners; and nozzlemen on gunite work.

CLASS B: Basic laborer - includes all laborer work not listed in Class A or Class C.

CLASS C: Janitorial-type light clean-up work associated with the TURNOVER of a project, or part of a project, to the owner. All other clean-up work is Class B.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- When a 2-shift schedule is worked, including a day shift, both shifts shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%.
- When a 3-shift schedule is worked, the day shift shall be established on the basis of 8 hours pay for 8 hours worked, the second shift shall be established on the basis of 8 hours pay for 7.5 hours worked, and the third shift shall be established

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

on the basis of 8 hours pay for 7 hours worked. The day shift shall receive the regular rate, the second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When a second or third shift is worked with no day shift, the second or third shift shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

OVERTIME:

- Hours in excess of 8 per day, or outside the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. Saturday may be used as a make-up day (paid at straight time) for a day lost to inclement weather, or for a holiday that is observed during the work week, Monday through Friday. All hours on Sundays and holidays shall be paid at double the regular rate.

- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.

- Benefits on ALL overtime hours shall be paid at time and one-half.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Laborer - Heavy & General

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Laborer - Heavy & General

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	19.53	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* No more than 1 apprentice for the first journeyman and no more than 1 apprentice for each additional 3 journeymen.

Craft: Laborer - Heavy & General

COMMENTS/NOTES

As of 3-1-18, benefits shall be \$20.23.
As of 9-1-18, benefits shall be \$20.28.
As of 3-1-19, benefits shall be \$21.03.
As of 3-1-20, benefits shall be \$21.78.

Heavy & General Laborer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Laborer-Residential and Modular Construction

PREVAILING WAGE RATE

	04/01/17
* Skilled Tradesman (only applies to Modular Construction)	W25.55 B5.45 T31.00
Foreman (person directing crew, regardless of his skill classification)	W25.55 B5.45 T31.00
Laborer	W21.55 B5.45 T27.00
Laborer (for single family and stand-alone duplex owned by single owner)	W17.05 B2.95 T20.00

Craft: Laborer-Residential and Modular Construction

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
As shown	800 hours	600 hours	600 hours							
wage & benefits	70%	80%	90%							

Ratio of Apprentices to Journeymen-

One (1) apprentice shall be allowed for the first journeyman on site and no more than one (1) additional apprentice for each additional three (3) journeymen on site.

Craft: Laborer-Residential and Modular Construction

COMMENTS/NOTES

*** SKILLED TRADESMAN-**

any worker doing work not typically done by a Building Laborer. Some examples are installing interior doors, sheet rock, hooking up appliances, installing light fixtures, installing railing systems, etc. Please note where local building codes require that certain work be performed under the supervision of a licensed tradesman (i.e. Plumber, Electrician, etc.) Laborers shall work under such supervision.

RESIDENTIAL CONSTRUCTION- All residential construction (not commercial), single-family, stand-alone duplex houses, townhouses and multi-family buildings of not more than four (4) floors, including basement levels. Please note the construction must be residential in nature for ALL FLOORS at an elevation of no more than FOUR (4) FLOORS, INCLUDING BASEMENT. In addition, barracks and dormitories are not considered residential projects.

MODULAR RESIDENTIAL CONSTRUCTION- all aspects of modular residential construction (not commercial) at the site of installation of structures of no more than four (4) stories, including all excavation and site preparation, footings and foundation systems whether poured on-site or prefabricated, all underground waterproofing, underground utilities, concrete slabs, sidewalks, driveways, paving, hardscape and landscaping. Please note the construction must be residential in nature for ALL STORIES at an elevation of no more than FOUR (4) STORIES. All work performed by the Set Crew (the crew of workers who set the modular boxes on the foundation), including the rigging, setting, attaching and assembly of all modules and structural members, preparation of the foundation to accept modules, such as sill plates, connection of all in-module and under-module connections including, but not limited to, plumbing, electrical, HVAC, fire suppression, CATS,

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

telephone, television/internet, and fiber optic, the building or installation of any porches or decks regardless of material or method of construction, the on-site installation of, or completion of any roof system, doors, windows and fenestrations, including flashing, gutter and soffit systems, waterproofing, insulation and interior and exterior trim work, and painting. Please note that modular construction does not include on-site stick built construction, tip up construction or panel built construction.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

OVERTIME:

Hours worked in excess of 8 per day/40 per week, Monday through Saturday, and all hours worked on Sunday and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOILDAYS:

New Year's Day, Martin Luther King Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Millwright

PREVAILING WAGE RATE

	11/01/17
Foreman	W55.21 B32.62 T87.83
Journeyman	W48.01 B28.44 T76.45

Craft: Millwright

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%
Benefits	58% of	Appren	tice	Wage	Rate	for all	intervals	+ \$.60		

Ratio of Apprentices to Journeymen - 1:3

Craft: Millwright

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Millwrights on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Millwrights on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Operating Engineer

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	60%	70%	80%	90%						

Ratio of Apprentices to Journeymen - *

* 1 apprentice for each piece of heavy equipment. At least 10 pieces of heavy equipment or a minimum of 5 Operating Engineers must be on site.

Craft: Operating Engineer

COMMENTS/NOTES

Operating Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Operating Engineer - Field Engineer

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer - Field Engineer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	70%	75%	of Rod/	Chainman	Wage					
Yearly			80%	90%	Transit/	Instrument	man	Wage		

Ratio of Apprentices to Journeymen - *

* No more than 1 Field Engineer Apprentice per Survey Crew.

Craft: Operating Engineer - Field Engineer

COMMENTS/NOTES

Operating Engineer - Field Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Painter - Bridges

PREVAILING WAGE RATE

	05/04/17
Foreman	W59.13 B27.67 T86.80
General Foreman	W61.13 B27.67 T88.80
Journeyman	W54.13 B27.67 T81.80

Craft: Painter - Bridges

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%			60%	70%		80%	90%	
Benefits	Intervals	1 to 2 =	8.88	Intervals	3 to 4 =	10.81	Intervals	5 to 6 =	13.48	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Bridges

COMMENTS/NOTES

These rates apply to: All bridges that span waterways, roadways, railways and canyons. All tunnels, overpasses, viaducts and all appurtenances.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Painter - Line Striping

PREVAILING WAGE RATE

	12/01/17
Apprentice (1st year)	W25.45 B11.00 T36.45
Apprentice (2nd year)	W29.45 B18.00 T47.45
Foreman (Charge Person)	W37.60 B18.17 T55.77
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W33.33 B18.17 T51.50
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W37.10 B18.17 T55.27

Craft: Painter - Line Striping

COMMENTS/NOTES

OVERTIME:

Hours in excess of 8 per day, Monday through Saturday, and all hours on
Sundays and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day,
Thanksgiving Day and Christmas Day. Veterans Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Painter - New Construction

PREVAILING WAGE RATE

	08/03/17
Foreman	W43.18 B23.26 T66.44
General Foreman	W47.10 B23.51 T70.61
Journeyman	W39.25 B23.01 T62.26

Craft: Painter - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits							11.00	11.00	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	55%	65%	70%	75%	80%	90%
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Painter - Repainting

PREVAILING WAGE RATE

	05/26/17
Foreman	W31.95 B19.38 T51.33
General Foreman	W34.86 B19.51 T54.37
Journeyman	W29.05 B19.26 T48.31

Craft: Painter - Repainting

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	NEW	CONSTR	TION					
				UC						

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Repainting

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations (only doing painting and carpeting with nothing else being changed in the office or on the project) occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tank, or generating stations.

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Painter- Containment

PREVAILING WAGE RATE

	05/04/17
Journeyman	W35.18 B24.75 T59.93

Craft: Painter- Containment

COMMENTS/NOTES

NOTE: These rates shall require no painting, but used in a supporting capacity only, such as wrapping, boxing, fencing, etc. on tanks.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate..
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Painter-Elevated Water Tanks

PREVAILING WAGE RATE

	05/04/17
Foreman	W48.92 B24.92 T73.84
General Foreman	W50.92 B24.92 T75.84
Journeyman	W43.92 B24.92 T68.84

Craft: Painter-Elevated Water Tanks

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Elevated Water Tanks

COMMENTS/NOTES

These rates apply to: All new and repaint elevated water tanks (interior and exterior).

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Painter-Structural Steel

PREVAILING WAGE RATE

	05/04/17
Foreman	W47.87 B25.27 T73.14
General Foreman	W49.87 B25.27 T75.14
Journeyman	W42.87 B25.27 T68.14

Craft: Painter-Structural Steel

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Structural Steel

COMMENTS/NOTES

These rates apply to: All work in power plants (any aspect). On steeples, on dams, on hangers, transformers, substations, etc. and on open steel, whether new or repaint. All new work (excluding traditional commercial painting work) in refineries, tank farms, water/sewerage treatment facilities and on pipelines.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Paperhanger - New Construction

PREVAILING WAGE RATE

	05/26/17
Foreman	W44.20 B23.33 T67.53
Journeyman	W40.19 B23.07 T63.26

Craft: Paperhanger - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits							11.00	11.00	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	55%	65%	70%	75%	80%	90%
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Paperhanger - Renovation

PREVAILING WAGE RATE

	05/26/17
Foreman	W32.80 B19.42 T52.22
Journeyman	W29.82 B19.29 T49.11

Craft: Paperhanger - Renovation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAPER-	HANGER	NEW	CONSTR	TION				
					UC					

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - Renovation

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tanks, or generating stations.

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Pipefitter

PREVAILING WAGE RATE

	05/01/17	05/01/18	05/01/19
Foreman	W52.26 B41.12 T93.38	W0.00 B0.00 T95.60	W0.00 B0.00 T97.82
Journeyman	W48.51 B38.18 T86.69	W0.00 B0.00 T88.91	W0.00 B0.00 T91.13

Craft: Pipefitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	35%	45%	55%	65%	75%					
Benefit	16.14	19.95	23.75	26.05	28.45					

Ratio of Apprentices to Journeymen - 1:5

Craft: Pipefitter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Journeyman Pipefitters on a job, 1 shall be designated a Foreman.
- There shall be a Foreman for every 8 Journeyman Pipefitters on a job.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM.

SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 25% per hour.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

OVERTIME:

- All hours worked in excess of 8 per day, Monday through Friday, and all hours worked on Saturday, shall be paid at time and one-half, inclusive of benefits. All hours on Sunday and holidays shall be paid at double time, inclusive of benefits.
- By mutual agreement, employees may work four 10-hour days, Monday to Thursday, at straight time rate. Friday may be used as a make-up day for a day lost to inclement weather, and may be paid at straight time. If Friday is not a make-up day, the first 8 hours shall be paid at time and one-half, inclusive of benefits; hours in excess of 8 shall be paid at double time, inclusive of benefits.

SHIFT DIFFERENTIAL (Maintenance Work Only):

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 10% per hour.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 15% per hour.

OVERTIME (Maintenance Work Only):

- All hours in excess of 8 per day, Monday through Saturday, shall be paid at time and one-half, inclusive of benefits. All hours on Sundays and holidays shall be paid at double time, inclusive of benefits.

NOTE: Maintenance work is work to repair, restore, or improve the efficiency of existing facilities. This does NOT apply to

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

ANY new construction.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays are observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Plasterer

PREVAILING WAGE RATE

See Bricklayer, Stone Mason Rates

Craft: Plasterer

COMMENTS/NOTES

See BRICKLAYER, STONE MASON Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Plumber

PREVAILING WAGE RATE

	05/01/17
Foreman	W56.87 B33.84 T90.71
General Foreman	W60.56 B33.84 T94.40
Journeyman	W52.66 B33.84 T86.50

Craft: Plumber

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	30%	45%	55%	65%	75%					
Benefits	10.15	15.23	18.61	22.00	25.38					

Ratio of Apprentices to Journeymen - *

* Employers may employ 1 apprentice on any job where 1 or 2 journeymen are employed. Thereafter, 1 apprentice may be employed for every 4 journeymen.

Craft: Plumber

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job having 2 or more Plumbers, 1 shall be designated as a Foreman.
- On any job having 9 or more Plumbers, 2 shall be designated as Foremen.

SHIFT DIFFERENTIALS:

- Shift work must continue for a minimum of 5 consecutive workdays.
- When two shifts are worked, the second shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the regular rate plus 10%, inclusive of benefits.
- When a third shift is worked, the third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular rate plus 15%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays, shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a lost day. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Roofer

PREVAILING WAGE RATE

	05/25/17
Foreman (5 workers or less)	W38.15 B30.23 T68.38
Foreman (6 workers or more)	W38.65 B30.23 T68.88
Journeyman	W36.15 B30.23 T66.38

Craft: Roofer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	52%	55%	60%	75%						
Benefits	21.75	23.50	30.23	30.23						

Ratio of Apprentices to Journeymen - *

* 1:2, 2:4, 3:6, 4:8, 5:10, 6:12, 7:14

Craft: Roofer

COMMENTS/NOTES

NOTE: Mopper, Operator of Felt Laying Machine or Slag Dispenser shall receive an additional \$.50 per hour.

FOREMAN REQUIREMENTS:

- There must be a Foreman on all jobs.
- Foreman rate depends on the number of Roofers on the job, as indicated.

The regular workday is 8 hours between 5:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the wage rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Roofer - Shingle, Slate & Tile

PREVAILING WAGE RATE

	05/11/17
Foreman (3 workers or less)	W26.75 B19.87 T46.62
Foreman (4 workers or more)	W27.50 B19.87 T47.37
Helper	W13.25 B19.87 T33.12
Journeyman (shingle work)	W26.50 B19.87 T46.37

Craft: Roofer - Shingle, Slate & Tile

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	60%	70%	80%							

Ratio of Apprentices to Journeymen - *

1:2, 2:4, 3:6, 4:8, 5:10, 6:12, 7:14

Craft: Roofer - Shingle, Slate & Tile

COMMENTS/NOTES

NOTE: Above rates are for Shingle work only. Slate and Tile work rates are an additional \$3.00 per hour.

HELPER RATIO: 1 Helper to 1 Journeyman

FOREMAN REQUIREMENTS:

- There must be a Foreman on all jobs.
- Foreman rate depends on the number of Roofers on the job, as indicated.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the wage rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Sheet Metal Sign Installation

PREVAILING WAGE RATE

	07/28/17
Foreman	W27.03 B22.76 T49.79
Journeyman	W25.03 B22.76 T47.79

Craft: Sheet Metal Sign Installation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	40%	45%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:2

Craft: Sheet Metal Sign Installation

COMMENTS/NOTES

HAZARDOUS DUTY:

Sign Installers working from a bosun's chair or outside swinging scaffold at a height of 60 feet or more: + \$5.00 per hour.

FOREMAN REQUIREMENTS:

When there are 3 or more Sign Installers on a job, one must be designated a Foreman.

The regular workday shall be 8 hours, between 8:00 AM and 5:00 PM.

OVERTIME:

Hours in excess of 8 per day, or outside the regular workday, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at time and one-half the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT

PREVAILING WAGE RATE DETERMINATION

County - HUNTERDON

Craft: Sheet Metal Worker

PREVAILING WAGE RATE

	06/01/17
Foreman	W48.71 B40.04 T88.75
Journeyman	W45.71 B40.04 T85.75

Craft: Sheet Metal Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 months	40%	45%	50%	55%	60%	65%	70%	75%		
Benefits	12.22	13.68	15.14	16.59	23.10	24.98	26.86	28.73		

Ratio of Apprentices to Journeymen- 1:3, except for the following types of work where the ratio shall be 1:1 (architectural metal work, testing and balancing, lockers, shelving and toilet partitions).*

* For work performed in a fabrication shop, the ratio will be applied on a "company-wide" basis (i.e. the total number of apprentices and journeymen employed by the company).

Craft: Sheet Metal Worker

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 6-1-17:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	50%	55%	60%	65%	70%	75%
Benefits	13.04	14.57	16.10	17.63	19.15	26.32	28.28	30.24

JOB SITE FOREMAN REQUIREMENTS:

- When there are 2 to 9 Sheet Metal Workers on a jobsite, 1 must be designated a Foreman.
- When there are 10 to 16 Sheet Metal Workers on a job site, 2 must be designated Foremen.
- When there are 17 to 23 Sheet Metal Workers on a job site, 3 must be designated Foremen.
- For every 7 additional Sheet Metal Workers on a job site, there shall be 1 additional Foreman.

SHOP FOREMAN REQUIREMENTS (For custom fabrication):

- When there are 1 to 10 Sheet Metal Workers in the shop, 1 must be designated a Foreman.
- For every 10 additional Sheet Metal Workers in the shop, 1 must be designated a Foreman.

The regular workday consists of 8 hours, between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- There must be a day shift worked in order to have a 2nd and/or 3rd Shift.
- Shop work does not satisfy shift requirements.
- 2nd Shift (4:30 PM-12:30 AM) shall be paid an additional 15% of the regular rate per hour inclusive of benefits, and

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

receive 8 hours pay for 7.5 hours of work.

- 3rd Shift (12:30 AM-8:00 AM) shall be paid an additional 25% of the regular rate per hour inclusive of benefits, and receive 8 hours pay for 7 hours of work.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and all hours on Saturday, shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Sprinkler Fitter

PREVAILING WAGE RATE

	04/01/17	04/01/18
Foreman	W51.90 B22.98 T74.88	W53.00 B23.98 T76.98
General Foreman	W54.15 B22.98 T77.13	W55.25 B23.98 T79.23
Journeyman	W49.15 B22.98 T72.13	W50.25 B23.98 T74.23

Craft: Sprinkler Fitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%
Benefits	7.90	7.90	14.87	14.87	14.87	14.87	14.87	14.87	14.87	14.87

Ratio of Apprentices to Journeymen - 1:1

Craft: Sprinkler Fitter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- There must be a Foreman on all projects. If there is only 1 Sprinkler Fitter on the project, he/she shall be designated a Foreman.
- On any job with 22 or more Sprinkler Fitters 1 shall be designated a General Foreman.

The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd and/or 3rd shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Tile Finisher-Marble

PREVAILING WAGE RATE

	01/01/18
Finisher	W46.66 B34.18 T80.84

Craft: Tile Finisher-Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	65%	70%	75%	85%	90%	95%		

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Finisher-Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Tile Setter - Ceramic

PREVAILING WAGE RATE

	12/04/17
Finisher	W44.14 B29.76 T73.90
Setter	W57.27 B33.02 T90.29

Craft: Tile Setter - Ceramic

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Ceramic

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Saturdays after 10 hours shall be paid double the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Tile Setter - Marble

PREVAILING WAGE RATE

	01/01/18
Tile Setter	W58.53 B36.37 T94.90

Craft: Tile Setter - Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	65%	70%	75%	85%	90%	95%		

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Tile Setter - Mosaic & Terrazzo

PREVAILING WAGE RATE

	01/01/18
Grinder or Assistant	W53.45 B34.90 T88.35
Mechanic	W55.05 B34.92 T89.97
Terrazzo Resinous Worker	W45.90 B28.27 T74.17

Craft: Tile Setter - Mosaic & Terrazzo

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	60%	65%	70%	75%	85%	95%	100%	

Ratio of Apprentices to Journeymen - 1:5

Craft: Tile Setter - Mosaic & Terrazzo

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON OR AFTER 1-1-18:

INTERVAL	PERIOD AND RATES							
1500 Hours	35%	45%	60%	70%	80%	90%	100%	

The regular workday consists of 7 hours, between 8:00 AM and 3:30 PM.

OVERTIME:

- Hours in excess of 7 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Monday after Easter, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Truck Driver

PREVAILING WAGE RATE

	11/01/17
Bucket, Utility, Pick-up, Fuel Delivery trucks	W39.90 B31.38 T71.28
Dump truck (single axle), Asphalt Distributor, Tack Spreader	W39.90 B31.38 T71.28
Euclid-type vehicles (large off-road equipment)	W40.05 B31.38 T71.43
Helper on Asphalt Distributor truck	W39.90 B31.38 T71.28
Slurry Seal, Seeding/Fertilizing/Mulchi ng truck	W39.90 B31.38 T71.28
Straight 3-axle trucks, Dump Truck (3-axle), Dump Truck (tandem)	W39.95 B31.38 T71.33
Tractor-Trailer truck (all types)	W40.05 B31.38 T71.43
Vacuum or Vac-All truck (entire unit)	W39.90 B31.38 T71.28
Winch Trailer Driver	W40.15 B31.38 T71.53

Craft: Truck Driver

COMMENTS/NOTES

Foreman: + \$.75 cents per hour. Overtime rate shall be increased accordingly.

HAZARDOUS WASTE REMOVAL WORK:

- On a hazardous waste site requiring Level A, B, or C personal protection for any worker: + \$3.00 per hour.
- On a hazardous waste site not designated Level A, B, or C: + \$1.00 per hour.

The regular workday consists of 8 hours starting at either 6:00 AM or 8:00 AM.

SHIFT DIFFERENTIAL:

Any shift starting at a time other than 6:00 AM or 8:00 AM shall receive an additional \$2.50 per hour.

BLENDED RATE:

- When a truck driver is performing work on site and also serving as a material delivery driver, the driver shall be paid a

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

"blended rate" which shall be 80% of the above-listed wage rates, plus the full benefit rate. This rate shall be used when the driver "round robins" for a minimum of 6 hours during the work day.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Benefits on overtime shall be \$36.73..
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Truck Driver-Material Delivery Driver

PREVAILING WAGE RATE

	11/01/17
Driver	W31.96 B31.38 T63.34
New Hires: 1st Year	W31.96 B31.38 T63.34

Craft: Truck Driver-Material Delivery Driver

COMMENTS/NOTES

NOTE: These rates may only be used for the delivery of materials to the jobsite.

OVERTIME: Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on

Sundays and holidays shall be paid at double the hourly rate. Benefits on overtime shall be paid accordingly: On 9-20-16 (\$35.03), on 11-1-16 (\$35.63), on 5-1-17 (\$36.13), and on 11-1-17 (\$36.73).

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - HUNTERDON

Craft: Welder

PREVAILING WAGE RATE

Welder

Craft: Welder

COMMENTS/NOTES

Welders rate is the same as the craft to which the welding is incidental .

STATEWIDE RATES

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) * receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumpcrete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Asphalt Curbing Machine

Asphalt Plant Engineer

Asphalt Spreader

Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)

Autograde Curecrete Machine (CMI & similar types)

Autograde Tube Finisher & Texturing Machine (CMI & similar types)

Bar Bending Machines (Power)

Batcher, Batching Plant, & Crusher [On Site]

Belt Conveyor System

Boom-Type Skimmer Machine

Bridge Deck Finisher

Bulldozer (all sizes)

Captain (Power Boats)

Car Dumper (railroad)

Compressor & Blower unit for loading/unloading of concrete,
cement, fly ash, or similar type materials (used independently
or truck-mounted)

Compressor (2 or 3 battery)

Concrete Breaking Machine

Concrete Cleaning/Decontamination Machine

Concrete Finishing Machine

Concrete Saw or Cutter (ride-on type)

Concrete Spreader (Hetzl, Rexomatic & similar types)

Concrete Vibrator

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Conveyors - under 125 feet

Crane Signalman

Crushing Machine

Directional Boring Machine

Ditching Machine - Small (Ditchwitch, Vermeer or similar types)

Dope Pot - Mechanical (with or without pump)

Dumpster

Elevator

Fireman

Fork Lift (Economobile, Lull & similar types)

Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)

Generator (2 or 3 battery)

Giraffe Grinder

Goldhofer/Hydraulic Jacking Trailer

Grader & Motor Patrols

Grout Pump

Gunnite Machine (Excluding nozzle)

Hammer - Vibratory (in conjunction with generator)

Heavy Equipment Robotics - Operator/Technician

Hoist (roof, tugger, aerial platform hoist, house car)

Hopper

Hopper Doors (power operated)

Ladder (motorized)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Laddervator

Locomotive (Dinky-type)

Maintenance Utility Man

Master Environmental Maintenance Technician

Mechanic

Mixer (Except paving mixers)

Pavement Breaker (truck-mounted or small self-propelled
ride-on type)

Pavement Breaker - maintenance of compressor or hydraulic unit

Pipe Bending Machine (power)

Pitch Pump

Plaster Pump (regardless of size)

Post Hole Digger (post pounder, auger)

Rod Bending Machines

Roller (black top)

Scale (power)

Seamen Pulverizing Mixer

Shoulder Widener

Silo

Skimmer Machine (boom type)

Steel Cutting Machine (service & maintenance)

Tamrock Drill

Tractor

Transfer Machines

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System -
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
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OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.31	31.70	83.01	84.36	85.36	87.71

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Autograde Pavement Profiler (CMI & similar types)

Autograde Pavement Profiler - Recycle Type (CMI & similar types)

Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)

Autograde Slipform Paver (CMI & similar types)

Backhoe (Excavator)

Central Power Plant

Concrete Paving Machine

Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.

Draglines

Drill, Bauer, AMI and similar types

Drillmaster, Quarrymaster

Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill

Elevator Grader

Field Engineer-Chief of Party

Front End Loader (5 cu. yards or larger)

Gradall

Grader, Rago

Helicopter Co-Pilot

Helicopter Communications Engineer

Juntann Pile Driver

Locomotive (large)

Mucking Machine

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Pavement & Concrete Breaker (Superhammer & Hoe Ram)

Pile Driver

Prentice Truck

Roadway Surface Grinder

Scooper (loader & shovel)

Shovel (Excavator)

Trackhoe (Excavator)

Tree Chopper with boom

Trenching Machine (cable plow)

Tunnel Boring Machine

Vacuum Truck

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Chipper

Compressor (single)

Concrete Spreader (small type)

Conveyor Loader (Except elevator graders)

Engines, Large Diesel (1620 HP) & Staging Pump

Farm Tractor

Fertilizing Equipment (operation & maintenance)

Fine Grade Machine (small type)

Form Line Grader (small type)

Front End Loader (under 1 cubic yard)

Generator (single)

Grease, Gas, Fuel, & Oil Supply Trucks

Heaters (Nelson or other type)

Lights - portable generating light plant

Mixer, Concrete (small)

Mulching Equipment (operation & maintenance)

Power Broom or Sweeper

Pump (diesel engine & hydraulic - regardless of power)

Pump (larger than 2 inch suction, including submersible pumps)

Road Finishing Machine (small type)

Roller - grade, fill, or stone base

Seeding Equipment (operation & maintenance)

Sprinkler & Water Pump Trucks

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including
proprane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and
maintenance)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.39	31.70	84.09	85.44	86.44	88.79

CLASSIFICATIONS:

Helicopter Pilot/Engineer

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.07	31.70	88.77	90.12	91.12	93.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
56.07	31.70	87.77	89.12	90.12	92.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to 139 ft.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.57	31.70	84.27	85.62	86.62	88.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
55.07	31.70	86.77	88.12	89.12	91.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.57	31.70	83.27	84.62	85.62	87.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

	01/01/2018		07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.20	31.70	85.90	87.25	88.25	90.60

CLASSIFICATIONS:

Helicopter Co-Pilot & Communications Engineer

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.14	31.70	81.84	83.19	84.19	86.54

CLASSIFICATIONS:

A-Frame

Cherry Picker -10 tons or less (Over 10 tons use crane rate)

Hoist (all types Except Chicago-boom)

Jack (screw, air hydraulic, power-operated unit or console
type, Except hand jack or pile load test type)

Side Boom

Straddle Carrier

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.48	31.70	79.18	80.53	81.53	83.88

CLASSIFICATIONS:

Aerial Platform Used On Hoists

Apprentice Engineer/Oiler with Compressor or Welding Machine

Captain (Power Boats)

Compressor (2 or 3 in battery)

Concrete Cleaning/Decontamination Machine Operator

Conveyor or Tugger Hoist

Directional Boring Machine

Elevator or House Car

Fireman

Forklift

Generator (2 or 3)

Heavy Equipment Robotics, Operator/Technician

Maintenance Utility Man

Master Environmental Maintenance Technician

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician

Vacuum Blasting Machine Operator/Maintenance Technician

Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.95	31.70	77.65	79.00	80.00	82.35

CLASSIFICATIONS:

Compressor (Single)

Generators

Welding Machines, Gas, Diesel, Or Electric Converters of any type-single

Welding System, Multiple (Rectifier Transformer Type)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
44.19	31.70	75.89	77.24	78.24	80.59

CLASSIFICATIONS:

Assistant Engineer/Oiler

Drillers Helper

Field Engineer - Transit/Instrument Man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Off Road Back Dump

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.76	31.70	83.46	84.81	85.81	88.16

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.90	31.70	82.60	83.95	84.95	87.30

CLASSIFICATIONS:

Field Engineer-Chief of Party

Vacuum Truck

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
59.09	31.70	90.79	92.14	93.14	95.49

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.43	31.70	89.13	90.48	91.48	93.83

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.93	31.70	84.63	85.98	86.98	89.33

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

TERRITORY
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NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
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STRUCTURAL STEEL ERECTION Rates Expiration Date : 03/31/2020

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Helicopter Pilot & Engineer

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST **Rates Expiration Date : 03/31/2020**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Driller's Helper

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.00	29.73	71.73	73.03	75.78	78.28

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.70	29.73	71.43	72.73	75.48	77.98

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.20	29.73	70.93	72.23	74.98	77.48

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.70	29.73	73.43	74.73	77.48	79.98

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.65	29.73	70.38	71.68	74.43	76.93

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.30	29.73	70.03	71.33	74.08	76.58

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.15	29.73	69.88	71.18	73.93	76.43

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
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PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

DRILL FOR GROUND WATER SUPPLY **Rates Expiration Date : 03/31/2020**

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
49.32	31.70	81.02	82.37	83.37	85.72

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
42.48	31.70	74.18	75.53	76.53	78.88

CLASSIFICATIONS:

Driller's Helper

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

OVERTIME:

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

10/01/2017

Rate	Fringe	Total
38.18	14.33	52.51

CLASSIFICATIONS:

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

Effective Dates:

10/01/2017

Rate	Fringe	Total
33.03	13.92	46.95

CLASSIFICATIONS:

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

Effective Dates:

10/01/2017

Rate	Fringe	Total
31.09	13.77	44.86

CLASSIFICATIONS:

Certified Welder

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

Effective Dates:

10/01/2017

Rate	Fringe	Total
30.24	13.40	43.64

CLASSIFICATIONS:

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

Effective Dates:

10/01/2017

Rate	Fringe	Total
29.26	13.32	42.58

CLASSIFICATIONS:

Boat Operator

Effective Dates:

10/01/2017

Rate	Fringe	Total
24.30	12.62	36.92

CLASSIFICATIONS:

Shoreman, Deckhand, Rodman, Scowman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL **Rates Expiration Date : 02/28/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem
IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.

SHIFT DIFFERENTIALS:

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

OVERTIME:

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

Effective Dates:

03/01/2017

Rate	Fringe	Total
36.50	21.27	57.77

CLASSIFICATIONS:

Foreman

Effective Dates:

03/01/2017

Rate	Fringe	Total
33.80	21.27	55.07

CLASSIFICATIONS:

Box man

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Microsurface/Slurry Preparation

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Squeegee man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL Rates Expiration Date : 02/28/2018

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

CLASSIFICATIONS:

Cleaner, Taper

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Paving Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.05	29.73	69.78	71.08	73.83	76.33

CLASSIFICATIONS:

Head Raker

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.90	29.73	69.63	70.93	73.68	76.18

CLASSIFICATIONS:

Raker, Screedman, Luteman

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.65	29.73	69.38	70.68	73.43	75.93

CLASSIFICATIONS:

Tampers, Smoothers, Kettlemen,
Painters, Shovelers, Roller Boys

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

Milling Controller

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Traffic Control Coordinator

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH **Rates Expiration Date : 10/16/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

SHIFT DIFFERENTIAL:

Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$1.00 per hour.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Hazardous Waste Pay (for Levels A, B, and C): an additional 10% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:

- 1st year on the job - 70% of Helper wage rate
- 2nd year on the job - 80% of Helper wage rate
- 3rd year on the job - 90% of Helper wage rate
- All helpers receive full fringe benefit rate.

Effective Dates:

10/17/2017

Rate	Fringe	Total
31.62	25.55	57.17

CLASSIFICATIONS:

Helper (4th year helper)

Effective Dates:

10/17/2017

Rate	Fringe	Total
39.69	25.55	65.24

CLASSIFICATIONS:

Driller

Effective Dates:

10/17/2017

Rate	Fringe	Total
45.73	25.55	71.28

CLASSIFICATIONS:

Foreman

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; traffic control coordinator; asphalt raker or lute man

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

"A" Rate:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

"GENERAL FOREMAN" Rate

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

wagon drill or drill master helper; powder carrier; magazine tender; signal man

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

wagon or directional drill operator; drill master

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

general foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; gunite nozzle man

PIPELINE - MAINLINE TRANSMISSION **Rates Expiration Date : 06/03/2018**

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$42.50; Pipeline Journeyman Welder: \$102.50; and Pipeline Helper: \$42.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
 - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
 - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman Welder

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

PIPELINE - MAINLINE TRANSMISSION Rates Expiration Date : 06/03/2018

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

06/05/2017

Rate	Fringe	Total
33.27	19.97	53.24

CLASSIFICATIONS:

Pipeline Helper

PIPELINE - GAS DISTRIBUTION **Rates Expiration Date : 10/31/2020**

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

SHIFT DIFFERENTIALS:

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman Welder

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
37.68	16.74	54.42	56.00	57.67

CLASSIFICATIONS:

Pipeline Helper

ASPHALT LABORERS- NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Asphalt Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

Asphalt Screedman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Asphalt Raker or Lute Man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS- NORTH Rates Expiration Date : 02/28/2021

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

Asphalt Laborer

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Electrician-Utility Work (North)

(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).

These rates apply to work contracted for by the following utility companies:

Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.

These rates do not apply to work on substations or switching stations.

For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.

3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

Four 10-hour days may be worked, at straight time, between 7:00 AM and 6:30 PM, Monday through Thursday.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
53.70	35.97	89.67	92.06	94.45	96.84

CLASSIFICATIONS:

Chief Lineman

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Journeyman Lineman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Special License Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Transit Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
48.64	32.58	81.22	83.38	85.53	87.70

CLASSIFICATIONS:

Line Equipment Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
42.56	28.51	71.07	72.96	74.84	76.73

CLASSIFICATIONS:

Dynamite Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
63.33	42.43	105.76	108.56	111.38	114.19

CLASSIFICATIONS:

General Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
58.26	39.03	97.29	99.88	102.47	105.05

CLASSIFICATIONS:

Assistant General Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
56.74	38.01	94.75	97.27	99.79	102.32

CLASSIFICATIONS:

Line Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
41.04	27.49	68.53	70.35	72.17	73.99

CLASSIFICATIONS:

Street Light Mechanical Leader

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Winch Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Truck Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Street Light Mechanic

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Line Equipment Mechanic

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
32.93	22.06	54.99	56.46	57.91	59.38

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
30.40	20.36	50.76	52.12	53.47	54.80

CLASSIFICATIONS:

Groundman 1st Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Line Equipment Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North)", see the "Outside Commercial Rates" for the county in which the jobsite is located.

*** FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES**

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

RECOGNIZED HOLIDAYS:

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

WORKING RULES:

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

Effective Dates:

12/03/2017

Rate	Fringe	Total
60.25	46.05	106.30

CLASSIFICATIONS:

General Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
53.66	42.21	95.87

CLASSIFICATIONS:

Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
50.84	40.58	91.42

CLASSIFICATIONS:

Small Job Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Heavy Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Cable Splicer

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Lineman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Welder

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Painter

Effective Dates:

12/03/2017

Rate	Fringe	Total
37.66	32.92	70.58

CLASSIFICATIONS:

Light Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
32.95	30.18	63.13

CLASSIFICATIONS:

Groundman Truck Driver

Effective Dates:

12/03/2017

Rate	Fringe	Total
30.60	28.82	59.42

CLASSIFICATIONS:

Groundman 3rd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
28.24	27.44	55.68

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
25.89	26.08	51.97

CLASSIFICATIONS:

Groundman 1st Year

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date : 12/04/2021

Effective Dates:

12/03/2017

Rate	Fringe	Total
20.71	23.07	43.78

CLASSIFICATIONS:

Flagman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

****THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY****

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
63.00	29.73	92.73	94.41	97.91	101.16

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
62.55	29.73	92.28	93.96	97.46	100.71

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
61.80	29.73	91.53	93.21	96.71	99.96

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
65.55	29.73	95.28	96.96	100.46	103.71

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.98	29.73	90.71	92.38	95.88	99.13

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.45	29.73	90.18	91.86	95.36	98.61

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.23	29.73	89.96	91.63	95.13	98.38

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
59.63	29.73	89.36	91.03	94.53	97.78

CLASSIFICATIONS:

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)



STATE OF NEW JERSEY
Department of Labor and Workforce Development
Division of Wage and Hour Compliance - Public Contracts Section
PO Box 389
Trenton, NJ 08625-0389

PREVAILING WAGE RATE DETERMINATION

The New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25 et seq.) requires that the Department of Labor and Workforce Development establish and enforce a prevailing wage level for workers engaged in public works in order to safeguard their efficiency and general well being and to protect them as well as their employers from the effects of serious and unfair competition.

Prevailing wage rates are wage and fringe benefit rates based on the collective bargaining agreements established for a particular craft or trade in the locality in which the public work is performed. In New Jersey, these rates vary by county and by the type of work performed.

Applicable prevailing wage rates are those wages and fringe benefits in effect on the date the contract is awarded. All pre-determined rate increases listed at the time the contract is awarded must also be paid, beginning on the dates specified. Rates that have expired will remain in effect until new rates are posted.

Prevailing Wage Rate

The prevailing wage rate for each craft will list the effective date of the rate and the following information:

W = Wage Rate per Hour

B = Fringe Benefit Rate per Hour*

T = Total Rate per Hour

- * Fringe benefits are an integral part of the prevailing wage rate. Employers not providing such benefits must pay the fringe benefit amount directly to the employee each payday. Employers providing benefits worth less than the fringe benefit amount must pay the balance directly to the employee each payday.

Unless otherwise stated in the Prevailing Wage Rate Determination, the fringe benefit rate for overtime hours remains at the straight time rate.

When the Overtime Notes in the Prevailing Wage Rate Determination state that the overtime rates are "inclusive of benefits," the benefit rate is increased by the same factor as the wage rate (i.e. multiplied by 1.5 for time and one-half, multiplied by 2 for double time, etc.).

Apprentice Rate Schedule

An "apprentice" is an individual who is registered with the United States Department of Labor - Office of Apprenticeship and enrolled in a certified apprenticeship program during the period in which they are working on the public works project.

The apprentice wage rate is a percentage of the journeyman wage rate, unless otherwise indicated. The apprentice benefit rate is the full journeyman benefit rate, unless otherwise indicated.

If there is no apprentice rate schedule listed, the individual must be paid at least the journeyman rate even if that individual is in a certified apprentice program for that trade.

If there is no ratio of apprentices to journeymen listed for a particular craft, then the ratio shall be one (1) apprentice to every four (4) journeymen.

Comments/Notes

For each craft listed there will be comments/notes that cover the definition of the regular workday, shift differentials, overtime, recognized holidays, and any other relevant information.

Public Works Contractor Registration

The Public Works Contractor Registration Act (N.J.S.A. 34:11-56.48, et seq.) requires that **all** contractors, subcontractors, or lower tier subcontractors who are working on or who bid on public works projects register with the Department of Labor and Workforce Development. Applications are available at www.nj.gov/labor (click on Wage & Hour and then go to Registration & Permits).

Pursuant to N.J.S.A. 34:11-56.51:

No contractor shall bid on any contract for public work as defined in section 2 of P.L.1963, c. 150 (C.34:11-56.26) unless the contractor is registered pursuant to this act. No contractor shall list a subcontractor in a bid proposal for the contract unless the subcontractor is registered pursuant to P.L.1999, c.238 (C.34:11-56.48 et seq.) at the time the bid is made. No contractor or subcontractor, including a subcontractor not listed in the bid proposal, shall engage in the performance of any public work subject to the contract, unless the contractor or subcontractor is registered pursuant to that act.

Snow Plowing

Snow plowing contracts are not subject to the New Jersey Prevailing Wage Act or the Public Works Contractor Registration Act.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Air Conditioning & Refrigeration - Service and Repair

PREVAILING WAGE RATE

	03/01/18
Journeyman (Mechanic)	W37.98 B23.93 T61.91

Craft: Air Conditioning & Refrigeration - Service and Repair

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
As Shown	Mo. 1-3	Mo. 4-12	2nd Year	3rd Year	4th Year	5th Year		Wage = %	of Jnymn	Wage
Wage and Bene	50%	55%	60%	65%	75%	85%		Bene = %	of Jnymn	Bene

Ratio of Apprentices to Journeymen - 1:4

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 3-1-13:

INTERVAL	PERIOD AND RATES						
As Shown	1st Year	2nd Year	3rd Year	4th Year	5th Year		Wage =% of Jnymn Wage
Wage and Benefit	40%	50%	60%	70%	80%		Bene. =% of Jnymn Wage

Craft: Air Conditioning & Refrigeration - Service and Repair

COMMENTS/NOTES

THESE RATES MAY BE USED FOR THE FOLLOWING:

- Service/Repair/Maintenance Work to EXISTING facilities.
- Replacement or Installation of air conditioning and refrigeration equipment when the combined tonnage does not exceed 15 tons for refrigeration, or 25 tons for air conditioning.
- Replacement or Installation of "packaged" or "unitary" rooftop-type units when the combined tonnage of the units does not exceed 75 tons.

NOTE: These rates may NOT be used for any work in new construction (including work on new additions).

The regular workday shall consist of 8 hours, starting between 6:00 AM and 10:00 AM, Monday through Friday.

SHIFT DIFFERENTIALS:

- The second and third shifts shall be paid an additional 15% of the hourly rate.
- All shifts must run for a minimum of 5 consecutive days.

OVERTIME:

Hours worked in excess of 8 per day or before or after the regular workday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Boilermaker

PREVAILING WAGE RATE

	01/01/18
Foreman	W49.50 B42.52 T92.02
General Foreman	W51.50 B43.50 T95.00
Journeyman	W44.50 B40.92 T85.42

Craft: Boilermaker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	65%	70%	75%	80%	85%	90%	95%			
Benefit =	34.83	35.70	36.58	37.44	38.32	39.19	40.05			

Ratio of Apprentices to Journeymen - *

* 1 apprentice will be allowed for the first 5 journeymen, 1 apprentice for the next 10 journeymen and 1 apprentice for each succeeding 20 journeymen up to a maximum of 5 apprentices per contractor on any one job.

Craft: Boilermaker

COMMENTS/NOTES

HIGH WORK: All apprentices working on the erection, repair, or dismantling of smoke stacks, standpipes, or water towers shall be paid the Journeyman rate.

The regular workday shall consist of 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall work 7½ hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 10%.
- The third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 20%.
- For "Municipal Water Works" projects only, the following shall apply: Two, four day, 10 hour shifts may be worked at straight time Monday through Thursday. The day shift shall work four days, at 10 hours, for 10 hours pay. The second shift shall work four days, at nine and a half hours, for 10 hours pay, plus 10% the hourly rate for new work and .25 cents on repair work. Friday may be used as a make-up day at straight time, due to weather conditions, holiday or any other circumstances beyond the employer's control.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.
- If any other craft employed by the same contractor, or a subcontractor thereof, receives double time in lieu of time and one-half, then the Boilermaker shall receive double time in lieu of time and one-half.
- For "Municipal Water Works" projects only, the following shall apply: Four 10 hour days may be worked Monday through Thursday at straight time. Friday may be used as a make-up day for a day lost to inclement weather, holiday or other conditions beyond the control of the employer. Overtime shall be paid for any hours that exceed 10 hours per day or 40 hours per week.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Boilermaker - Minor Repairs

PREVAILING WAGE RATE

	01/01/18
Foreman	W33.54 B16.17 T49.71
General Foreman	W34.04 B16.17 T50.21
Mechanic	W32.04 B16.17 T48.21

Craft: Boilermaker - Minor Repairs

COMMENTS/NOTES

NOTE: These rates apply to MINOR REPAIR WORK ONLY (repair work in the field for which the contract amount does not exceed \$125,000.00).

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Bricklayer, Stone Mason

PREVAILING WAGE RATE

	05/01/17	05/01/18
Deputy Foreman	W44.10 B31.94 T76.04	W0.00 B0.00 T78.23
Foreman	W47.10 B31.94 T79.04	W0.00 B0.00 T81.23
Journeyman	W41.10 B31.94 T73.04	W0.00 B0.00 T75.23

Craft: Bricklayer, Stone Mason

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%	55%	60%	65%	70%	75%	80%		
Benefits	3.72	4.65	5.12	5.58	20.48	21.83	23.18	24.52		

Ratio of Apprentices to Journeymen - 1:5

Craft: Bricklayer, Stone Mason

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 5-1-17:

INTERVAL	PERIOD AND RATES								
6 Months	40%	50%	55%	60%	65%	70%	75%	80%	
Benefits	3.80	4.75	5.23	5.70	21.16	22.55	23.95	25.33	

The regular workday shall consist of 8 hours, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the first, or day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 10%, inclusive of benefits.

OVERTIME:

- The first 2 hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. The first 10 hours on Saturday shall be paid at time and one-half the

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

- Saturday may be used as a make-up day for hours lost to inclement weather.

- When Bricklayers/Stone Masons work on Saturday with Laborers, and no other crafts are working on the project for the day, benefits may be paid at straight time. If other crafts are present, the applicable overtime rate for benefits shall be paid.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Carpenter

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Foreman	W55.11 B31.41 T86.52	W0.00 B0.00 T87.29	W0.00 B0.00 T88.54
Journeyman	W47.92 B27.31 T75.23	W0.00 B0.00 T76.48	W0.00 B0.00 T77.73

Craft: Carpenter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57% of	Appren	tice	Wage Rate	for all	intervals				

Ratio of Apprentices to Journeymen - 1:3

Craft: Carpenter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Carpenter - Resilient Flooring

PREVAILING WAGE RATE

	11/01/17	05/01/18	11/01/18
Foreman	W55.11 B31.41 T86.52	W0.00 B0.00 T87.29	W0.00 B0.00 T88.54
Journeyman	W47.92 B27.31 T75.23	W0.00 B0.00 T76.48	W0.00 B0.00 T77.73

Craft: Carpenter - Resilient Flooring

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	57%	of	Appren	tice	Wage Rate	for all	intervals			

Ratio of Apprentices to Journeymen - *

* 1 apprentice shall be allowed to every 2 journeymen or major fraction thereof. No more than 3 apprentices on any one job or project.

Craft: Carpenter - Resilient Flooring

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job where there are 4 or more Carpenters of Resilient Flooring, 1 must be designated a Foreman.

FOR SYNTHETIC TURF INSTALLATION ONLY:

- The rate shall be 90% of the wage and benefit rate.

The regular workday consists of 8 hours, starting between 6:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular wage rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular wage rate, the second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular wage rate plus 15% and the third shift shall receive the regular wage rate plus 20%.

OVERTIME:

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Cement Mason

PREVAILING WAGE RATE

See "Bricklayer, Stone Mason" Rates

Craft: Cement Mason

COMMENTS/NOTES

See " Bricklayer, Stone Mason" Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Diver

PREVAILING WAGE RATE

	12/13/17	05/01/18	11/01/18
Diver	W57.54 B45.57 T103.11	W0.00 B0.00 T104.36	W0.00 B0.00 T105.61
Tender	W45.80 B45.57 T91.37	W0.00 B0.00 T92.62	W0.00 B0.00 T93.87

Craft: Diver

COMMENTS/NOTES

NOTE: All dive crews must consist of a Tender, a Diver, and a standby Diver (standby Diver is the same rate as a Diver).

DEPTH & PENETRATION RATES: Divers shall be paid the following depth and penetration rates, in addition to the regular hourly rate, when applicable:

AIR DIVES:

0-59 feet: No additional wage
60-74 feet: + \$0.25 per foot
75-125 feet: + \$0.78 per foot

MIXED GAS DIVES:

0-74 feet: No additional wage
75-125 feet: + \$1.00 per foot
126-200 feet: + \$2.00 per foot

PENETRATION DIVES:

126-200 feet: + \$1.50 per foot
201-275 feet: + \$1.75 per foot
276-350 feet: + \$2.00 per foot
351-425 feet: + \$2.50 per foot

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Dockbuilder

PREVAILING WAGE RATE

	12/13/17	05/01/18	11/01/18
Foreman	W52.67 B45.57 T98.24	W0.00 B0.00 T99.24	W0.00 B0.00 T100.49
Foreman (Concrete Form Work)	W51.87 B32.46 T84.33	W0.00 B0.00 T85.35	W0.00 B0.00 T86.60
Journeyman	W45.80 B45.57 T91.37	W0.00 B0.00 T92.62	W0.00 B0.00 T93.87
Journeyman (Concrete Form Work)	W45.10 B32.46 T77.56	W0.00 B0.00 T78.81	W0.00 B0.00 T80.06

Craft: Dockbuilder

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	18.32	22.90	29.77	36.64						
Benefit	30.57	for all	intervals							

Ratio of Apprentices to Journeymen - *

* When there are 4 or fewer Dockbuilders on a job, no more than 1 may be an apprentice. When there are 5 or more Dockbuilders, there may be 1 apprentice for every 5 Dockbuilders.

Craft: Dockbuilder

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL	PERIOD AND RATES			
Yearly	18.04	22.55	29.32	36.08
Benefits	22.46 for all intervals			

CREOSOTE HANDLING:

When handling creosote products on land piledriving, floating marine construction, and construction of wharves, the worker shall receive an additional \$0.25 per hour.

HAZARDOUS WASTE WORK:

- Hazardous waste removal work on a state or federally designated hazardous waste site where Level A, B, or C personal protection is required: an additional 20% of the hourly rate, per hour.
- Hazardous waste removal work in Level D, or where personal protection is not required: an additional \$1.00 per hour.

CERTIFIED WELDER: When required on the job by the project owner, a Certified Welder shall receive an additional \$1.00 per hour.

FOREMAN REQUIREMENTS:

The first Dockbuilder on the job shall be designated a Foreman.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Drywall Finisher

PREVAILING WAGE RATE

	05/01/17
Foreman	W43.45 B23.60 T67.05
General Foreman	W45.43 B23.60 T69.03
Journeyman	W39.50 B23.60 T63.10

Craft: Drywall Finisher

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits	Intervals	1 to 3 =	9.85	Intervals	4 to 6 =	12.28	Intervals	7 to 9 =	14.95	

Ratio of Apprentices to Journeymen - 1:4

Craft: Drywall Finisher

COMMENTS/NOTES

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Electrician

PREVAILING WAGE RATE

	10/01/17
Asst. General Foreman	W57.25 B36.77 T94.02
Foreman	W54.80 B35.22 T90.02
General Foreman	W62.25 B39.91 T102.16
Journeyman, Cable Splicer	W49.79 B32.07 T81.86

Craft: Electrician

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	14.94	17.43	19.92	24.90	34.85					
Benefits	62.90% of	Apprentice	Wage	Rate	+ \$0.76					

Ratio of Apprentices to Journeymen - 1:4

Craft: Electrician

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more electricians on the job, 1 shall be designated a Foreman.
- 1 additional Foreman shall be designated for every 10 additional electricians.
- When there are 2 or more Foremen on the job, 1 shall be designated a General Foreman.

The regular workday is 8 hours between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 workdays.
- 2nd Shift (4:30 PM-12:30 AM) shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the hourly rate, per hour, inclusive of benefits.
- 3rd Shift: (12:30 AM-8:00 AM) shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the hourly rate, per hour, inclusive of benefits.

OVERTIME:

- The first 4 hours in excess of 8 per day, and hours before or after the regular workday that are not shift work, Monday through Friday, and the first 8 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 12 per day, Monday through Friday, in excess of 8 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked at straight time, Monday through Thursday or Tuesday through Friday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Electrician - Teledata (15 Instruments and Less)

PREVAILING WAGE RATE

	01/01/18
Assistant General Foreman	W48.13 B30.53 T78.66
Foreman	W43.90 B27.87 T71.77
General Foreman	W50.06 B31.48 T81.54
Journeyman Technician	W38.51 B24.49 T63.00
Lead Foreman	W45.83 B29.08 T74.91
Working Foreman	W41.98 B26.66 T68.64

Craft: Electrician - Teledata (15 Instruments and Less)

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	18.50	21.90	27.56	32.47						
Benefits	62.90% of	Apprentice	Wage	Rate	+ \$0.26					

Ratio of Apprentices to Journeymen - 1:4

Craft: Electrician - Teledata (15 Instruments and Less)

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 1-1-18:

INTERVAL PERIOD AND RATES
 Yearly 18.87 22.34 28.11 33.12
 Benefits 62.90% of Apprentice Wage Rate + \$0.26

NOTE: These rates are for service, maintenance, moves and/or changes affecting 15 instruments or less. These rates may NOT be used for any new construction or any fiber optic work.

FOREMAN REQUIREMENTS:

1 to 10 workers- 1 Working Foreman
 11 to 20 workers- 1 Working Foreman and 1 Foreman
 21 to 30 workers- 1 Working Foreman, 1 Foreman and 1 Lead Foreman

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

31 to 40 workers- 1 Working Foreman, 2 Foremen and 1 General Foreman
41 to 50 workers- 1 Working Foreman, 4 Foremen, 1 Assistant General Foreman and 1 General Foreman
51 to 60 workers- 1 Working Foreman, 5 Foremen, 1 Assistant General Foreman and 1 General Foreman
61 to 70 workers- 1 Working Foreman, 6 Foremen, 1 Assistant General Foreman and 1 General Foreman
71 to 80 workers- 1 Working Foreman, 7 Foremen, 2 Assistant General Foremen and 1 General Foreman
81 to 90 workers- 1 Working Foreman, 8 Foremen, 2 Assistant General Foremen and 1 General Foreman
91 to 100 workers- 1 Working Foreman, 9 Foremen, 2 Assistant General Foremen and 1 General Foreman.

HEIGHT WORK (40 feet above ground or floor):

Workers shall be paid an additional 10% of the regular rate, inclusive of benefits.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 workdays.
- 2nd Shift (4:30 PM-12:30 AM) shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the hourly rate, per hour, inclusive of benefits.
- 3rd Shift: (12:30 AM-8:00 AM) shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the hourly rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Electrician - Teledata (16 Instruments & More)

PREVAILING WAGE RATE

	10/01/17
Assistant General Foreman	W57.25 B36.77 T94.02
Foreman	W54.80 B35.22 T90.02
General Foreman	W62.25 B39.91 T102.16
Journeyman Technician	W49.79 B32.07 T81.86
Lead Foreman	W54.80 B35.22 T90.02
Working Foreman	W54.80 B35.22 T90.02

Craft: Electrician - Teledata (16 Instruments & More)

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	14.94	17.43	19.92	24.90	34.85					
Benefits	62.90% of	Apprentice	Wage	Rate	+ \$0.76					

Ratio of Apprentices to Journeymen - 1:4

Craft: Electrician - Teledata (16 Instruments & More)

COMMENTS/NOTES

NOTES:

1) These rates are for service, maintenance, moves and/or changes affecting 16 or more instruments, and fiber optic work. These rates may NOT be used for any new construction.

2) The number of electricians on the jobsite is the determining factor for which Foreman Category applies.

FOREMAN REQUIREMENTS:

1 to 10 workers- 1 Working Foreman

11 to 20 workers- 1 Working Foreman and 1 Foreman

21 to 30 workers- 1 Working Foreman, 1 Foreman and 1 Lead Foreman

31 to 40 workers- 1 Working Foreman, 2 Foremen and 1 General Foreman

41 to 50 workers- 1 Working Foreman, 4 Foremen, 1 Assistant General Foreman and 1 General Foreman

51 to 60 workers- 1 Working Foreman, 5 Foremen, 1 Assistant General Foreman and 1 General Foreman

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

61 to 70 workers- 1 Working Foreman, 6 Foremen, 1 Assistant General Foreman and 1 General Foreman
71 to 80 workers- 1 Working Foreman, 7 Foremen, 2 Assistant General Foremen and 1 General Foreman
81 to 90 workers- 1 Working Foreman, 8 Foremen, 2 Assistant General Foremen and 1 General Foreman
91 to 100 workers- 1 Working Foreman, 9 Foremen, 2 Assistant General Foremen and 1 General Foreman.

HEIGHT WORK (40 feet above ground or floor):

Workers shall be paid an additional 10% of the regular rate, inclusive of benefits.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 workdays.
- 2nd Shift (4:30 PM-12:30 AM) shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the hourly rate, per hour, inclusive of benefits.
- 3rd Shift: (12:30 AM-8:00 AM) shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the hourly rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Electrician- Outside Commercial

PREVAILING WAGE RATE

	10/01/17
Assistant General Foreman	W57.25 B36.45 T93.70
Cable Splicer	W49.79 B31.80 T81.59
Foreman	W54.80 B34.92 T89.72
General Foreman	W62.25 B39.57 T101.82
Groundman, Truck & Winch Operator- Level I	W14.94 B10.07 T25.01
Groundman, Truck & Winch Operator- Level II	W19.92 B13.18 T33.10
Groundman, Truck & Winch Operator- Level III	W24.90 B16.28 T41.18
Groundman, Truck & Winch Operator- Level IV	W32.36 B20.93 T53.29
Groundman, Truck & Winch Operator- Level V	W39.83 B25.59 T65.42
Heavy Equipment Operator	W49.79 B31.80 T81.59
Journeyman Lineman	W49.79 B31.80 T81.59

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Electrician- Outside Commercial

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	29.87	32.36	34.85	37.34	39.83	42.32	44.81			
Benefits	62.35% of	Apprentic	Wage	Rate	+ \$0.76					

Craft: Electrician- Outside Commercial

COMMENTS/NOTES

* FOR UTILITY WORK PLEASE SEE STATEWIDE RATES

The regular workday is 8 hours between 7:00 AM and 4:30 pm.

SHIFT DIFFERENTIALS:

2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, inclusive of benefits.

3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate per hour, inclusive benefits.

FOREMAN REQUIREMENTS:

When there are 2 or more electricians on the job, 1 shall be designated a Foreman.

1 additional Foreman shall be designated for every 10 additional electricians.

When there are 2 or more Foremen on the job, 1 shall be designated a General Foreman.

An Assistant General Foreman shall be designated for every 50 electricians working on the job.

OVERTIME:

The first 4 hours in excess of 8 per day, and hours before or after the regular workday that are not shift work, Monday through Friday, and the first 8 hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits.

Four 10-hour days may be worked at straight time, Monday through Thursday or Tuesday through Friday.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Electrician-Utility Work (North)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (North)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
* 6 Months	60%	65%	70%	75%	80%	85%	90%			
Benefits	67% of	Appren	tice	Wage	Rate	for all	intervals			

Craft: Electrician-Utility Work (North)

COMMENTS/NOTES

Electrician-Utility Work (North) rates are located in the "Statewide" rate package.

* The apprentice wage rate is paid at the percentage of the Journeyman Lineman wage rate located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Electrician-Utility Work (South)

PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (South)

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	28.24	30.60	32.95	35.30	37.66	40.01	42.36			
Benefits	24.29	25.67	27.03	28.40	29.77	31.13	32.51			

Craft: Electrician-Utility Work (South)

COMMENTS/NOTES

Electrician-Utility Work (South) rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Elevator Constructor

PREVAILING WAGE RATE

	01/01/18
Helper-Over 5 Years	W39.03 B36.12 T75.15
Helper-Under 5 Years	W39.03 B35.34 T74.37
Mechanic (Journeyman) over 5 years	W55.76 B37.46 T93.22
Mechanic (Journeyman) under 5 years	W55.76 B36.34 T92.10
Mechanic in Charge (Foreman) over 5 years	W62.73 B38.01 T100.74
Mechanic in Charge (Foreman) under 5 years	W62.73 B36.76 T99.49
Probationary Helper (1st 6 months)	W27.88 B34.67 T62.55

Craft: Elevator Constructor

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	55%	65%	70%	80%						
Benefits	full	journeyma n	benefit	rate for	all	intervals				

Ratio of Apprentices to Journeymen - *

* Total number of helpers and apprentices shall not exceed the number of mechanics on the job , except where 2 teams are working, 1 additional helper or apprentice may be employed for first 2 teams and an extra helper or apprentice for each additional 3 teams. Further, the employer may use as many helpers or apprentices as needed, under the direction of a mechanic in wrecking old plants,handling and hoisting material, and on foundation work. When replacing cables on existing elevators, employer may use 2 helpers or apprentices to 1 mechanic.

Craft: Elevator Constructor

COMMENTS/NOTES

The total number of helpers and apprentices shall not exceed the number of mechanics on the job, except that on jobs where two teams are working, 1 extra helper or apprentice may be employed for the first two teams and an extra helper or apprentice for each additional three teams. Further, the employer may use as many helpers or apprentices as needed under the direction of a mechanic in wrecking old plants, handling and hoisting material, and on foundation work. When replacing cables on existing elevators, employer may use 2 helpers or

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - MERCER

apprentices to 1 mechanic.

SHIFT DIFFERENTIALS:

- 2nd Shift (4:30 PM to 12:30 AM) shall be established on the basis of 7.5 hours of work for 8 hours of pay, plus an additional 10% per hour.
- 3rd Shift (12:30 AM to 8:00 AM) shall be established on the basis of 7 hours of work for 8 hours of pay, plus an additional 15% per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday to Thursday or Tuesday to Friday, at straight time. When working a 4-10 hour day schedule, all hours worked on a day other than the days established for the 4-10 hour schedule shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and day after, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Glazier

PREVAILING WAGE RATE

	05/25/17	05/01/18	05/01/19
Foreman	W48.81 B23.62 T72.43	W50.81 B23.62 T74.43	W52.81 B23.62 T76.43
General Foreman	W50.81 B23.75 T74.56	W52.81 B23.75 T76.56	W54.81 B23.75 T78.56
Journeyman	W44.81 B23.36 T68.17	W46.81 B23.36 T70.17	W48.81 B23.36 T72.17

Craft: Glazier

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	50%	55%	60%	65%	70%	75%	80%	90%		
Benefits	8.85	8.85	11.46	11.46	12.88	12.88	16.37	16.37		

Ratio of Apprentices to Journeymen - 1:4

Craft: Glazier

COMMENTS/NOTES

Hazard/Height Pay: +\$1.00 per hour

FOREMAN REQUIREMENTS:

- When there are 4 or more Glaziers on a job, 1 must be designated a Foreman.
- When there are 15 or more Glaziers on a job, 1 must be designated a General Foreman.

The regular workday shall consist of 8 hours, between 7:00 AM and 5:30 PM, Monday to Friday.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Heat & Frost Insulator

PREVAILING WAGE RATE

	07/07/17	07/01/18	07/01/19	07/01/20
Foreman	W43.32 B33.93 T77.25	W0.00 B0.00 T80.00	W0.00 B0.00 T83.75	W0.00 B0.00 T87.00
Journeyman	W42.32 B33.93 T76.25	W0.00 B0.00 T79.00	W0.00 B0.00 T82.25	W0.00 B0.00 T85.50

Craft: Heat & Frost Insulator

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	45%	55%	65%	75%	80%					
Benefit	30.68	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* Ratio = 1:4 on a "company-wide" basis (i.e. the total number of apprentices and journeymen employed by the company). There is no limit to the number of apprentices allowed on any one job, provided there is at least 1 journeyman on the job.

Craft: Heat & Frost Insulator

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- If there is only 1 Insulator on the job, he must be designated a Foreman.
- If there are 2 to 10 Insulators on the job, 1 must be designated a Foreman.
- If there are 11 or more Insulators on the job, 1 must be designated a General Foreman and receive the following additional pay (% above Journeyman wage rate):
 - 11 - 20 Insulators on site: 10%; 21 - 30 Insulators on site: 15%;
 - 31 - 40 Insulators on site: 20%; 41 - 50 Insulators on site: 25%

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of two (2) consecutive days and a minimum of two (2) shifts per day must be worked. Additionally, no less than two (2) employees may work on any one (1) shift. If these requirements are not met then shift work would not apply and the applicable overtime rate shall be paid.
- 1st Shift (8:00 AM- 4:00 PM).
- 2nd Shift (4:00 PM - 12:00 AM): additional 15% of the regular rate, inclusive of benefits.
- 3rd Shift (12:00 AM - 8:00 AM): additional 20% of the regular rate, inclusive of benefits.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Heat & Frost Insulator - Asbestos Worker

PREVAILING WAGE RATE

	07/07/17	07/01/18	07/01/19	07/01/20
Foreman	W43.32 B33.93 T77.25	W0.00 B0.00 T80.00	W0.00 B0.00 T83.75	W0.00 B0.00 T87.00
Journeyman	W42.32 B33.93 T76.25	W0.00 B0.00 T79.00	W0.00 B0.00 T82.25	W0.00 B0.00 T85.50

Craft: Heat & Frost Insulator - Asbestos Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	Heat &	Frost	Insulator						

Craft: Heat & Frost Insulator - Asbestos Worker

COMMENTS/NOTES

NOTE: These rates apply only to the REMOVAL of insulation materials/asbestos from mechanical systems, including containment erection and demolition, and placing material in appropriate containers.

FOREMAN REQUIREMENTS:

- If there is only 1 Asbestos Worker on the job, he must be designated an Abatement Foreman.
- If there are 2 to 10 Asbestos Workers on the job, 1 must be designated an Abatement Foreman.
- If there are 11 or more Asbestos Workers on the job, 1 must be designated a General Foreman and receive the following additional pay (% above Abatement Mechanic wage rate):
 - 11 - 20 Insulators on site: 10%; 21 - 30 Insulators on site: 15%;
 - 31 - 40 Insulators on site: 20%; 41 - 50 Insulators on site: 25%

MECHANIC-TO-APPRENTICE RATIO:

- Maximum of 5 Apprentices for each Abatement Mechanic on the job.

OVERTIME:

- Hours in excess of 8 per day, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Ironworker

PREVAILING WAGE RATE

	07/14/17	07/01/18
Foreman: Fence and Guardrail	W54.43 B29.96 T84.39	W0.00 B0.00 T84.39
Foreman-Rod/Mesh	W54.43 B29.96 T84.39	W0.00 B0.00 T86.60
Foreman-Structural	W56.59 B29.96 T86.55	W0.00 B0.00 T88.77
Journeyman: Fence and Guardrail	W50.40 B29.96 T80.36	W0.00 B0.00 T80.36
Journeyman-Rod/Mesh	W50.40 B29.96 T80.36	W0.00 B0.00 T83.03
Journeyman-Structural	W52.40 B29.96 T82.36	W0.00 B0.00 T85.04

Craft: Ironworker

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	60%	75%	85%							

Ratio of Apprentices to Journeymen - *

* On all work EXCEPT Ornamental Iron and Bridge Cable Spinning Work 1:4; On Ornamental Iron and Bridge Cable Spinning Work 1:1.

Craft: Ironworker

COMMENTS/NOTES

Note: For work on hazardous waste sites, workers shall receive an additional \$3.00 per hour.

The regular workday shall consist of 8 hours between 7:00 AM and 5:00 PM.

SHIFT DIFFERENTIALS:

- Second shift shall receive an additional 10% per hour.
- Third shift shall receive an additional 15% per hour.

OVERTIME:

- Time and one-half the wage rate for hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and for all hours on Saturdays. Double the wage rate for all hours on Sundays and holidays.
- Employees may work four 10-hour days, Monday to Thursday, at straight time. Friday may be used as a make-up day

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - MERCER

for a day lost to inclement weather. If Friday is not a make-up day, all hours worked on Friday shall be paid at time and one-half the wage rate.

- Benefits on overtime hours shall be paid at the following rates:

When wages are time and one-half, benefits = \$34.07.

When wages are double, benefits = \$38.17.

RECOGNIZED HOLIDAYS: New Year's Eve, New Year's Day, Memorial Day, July 4th, Labor Day, General and Presidential Election Day, Thanksgiving Day, Christmas Eve, Christmas Day. Saturday holidays observed the preceding Friday. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Laborer - Asbestos & Hazardous Waste Removal

PREVAILING WAGE RATE

	01/26/17
Journeyman (Handler)	W30.88 B21.91 T52.79

Craft: Laborer - Asbestos & Hazardous Waste Removal

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	18.53	21.62	24.70	27.79						
Benefit	20.26	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Asbestos & Hazardous Waste Removal

COMMENTS/NOTES

NOTE: These rates apply to work in connection with Asbestos, Radiation, Hazardous Waste, Lead, Chemical, Biological, Mold Remediation and Abatement.

The regular workday shall be 8 hours.

OVERTIME:

- Hours in excess of 8 per day, Monday through Saturday, and all hours on Sunday and holidays shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Good Friday, Easter, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. (Holidays start at 12:00 am).

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Laborer - Building

PREVAILING WAGE RATE

	11/01/17	05/01/18
Class A Journeyman	W32.90 B28.02 T60.92	W0.00 B0.00 T62.57
Class B Journeyman	W32.40 B28.02 T60.42	W0.00 B0.00 T62.07
Class C Journeyman	W27.54 B28.02 T55.56	W0.00 B0.00 T57.45
Foreman	W37.01 B28.02 T65.03	W0.00 B0.00 T66.48
General Foreman	W41.13 B28.02 T69.15	W0.00 B0.00 T70.40

Craft: Laborer - Building

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	60%	70%	80%	90%						
Benefit	24.77	24.77	24.77	24.77						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than one (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Building

COMMENTS/NOTES

CLASS A: Specialist laborer including mason tender or concrete pour crew; scaffold builder (scaffolds up to 14 feet in height); operator of forklifts, Bobcats (or equivalent machinery), jack hammers, tampers, motorized tampers and compactors, vibrators, street cleaning machines, hydro demolition equipment, riding motor buggies, conveyors, burners; and nozzlemen on gunite work.

CLASS B: Basic laborer - includes all laborer work not listed in Class A or Class C.

CLASS C: Janitorial-type light clean-up work associated with the TURNOVER of a project, or part of a project, to the owner. All other clean-up work is Class B.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- When a 2-shift schedule is worked, including a day shift, both shifts shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%.
- When a 3-shift schedule is worked, the day shift shall be established on the basis of 8 hours pay for 8 hours worked, the second shift shall be established on the basis of 8 hours pay for 7.5 hours worked, and the third shift shall be established

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - MERCER

on the basis of 8 hours pay for 7 hours worked. The day shift shall receive the regular rate, the second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When a second or third shift is worked with no day shift, the second or third shift shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

OVERTIME:

- Hours in excess of 8 per day, or outside the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. Saturday may be used as a make-up day (paid at straight time) for a day lost to inclement weather, or for a holiday that is observed during the work week, Monday through Friday. All hours on Sundays and holidays shall be paid at double the regular rate.

- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.

- Benefits on ALL overtime hours shall be paid at time and one-half.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Laborer - Heavy & General

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Laborer - Heavy & General

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	19.53	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* No more than 1 apprentice for the first journeyman and no more than 1 apprentice for each additional 3 journeymen.

Craft: Laborer - Heavy & General

COMMENTS/NOTES

As of 3-1-18, benefits shall be \$20.23.
As of 9-1-18, benefits shall be \$20.28.
As of 3-1-19, benefits shall be \$21.03.
As of 3-1-20, benefits shall be \$21.78.

Heavy & General Laborer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Laborer-Residential and Modular Construction

PREVAILING WAGE RATE

	04/01/17
* Skilled Tradesman (only applies to Modular Construction)	W25.55 B5.45 T31.00
Foreman (person directing crew, regardless of his skill classification)	W25.55 B5.45 T31.00
Laborer	W21.55 B5.45 T27.00
Laborer (for single family and stand-alone duplex owned by single owner)	W17.05 B2.95 T20.00

Craft: Laborer-Residential and Modular Construction

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
As shown	800 hours	600 hours	600 hours							
wage & benefits	70%	80%	90%							

Ratio of Apprentices to Journeymen-

One (1) apprentice shall be allowed for the first journeyman on site and no more than one (1) additional apprentice for each additional three (3) journeymen on site.

Craft: Laborer-Residential and Modular Construction

COMMENTS/NOTES

*** SKILLED TRADESMAN-**

any worker doing work not typically done by a Building Laborer. Some examples are installing interior doors, sheet rock, hooking up appliances, installing light fixtures, installing railing systems, etc. Please note where local building codes require that certain work be performed under the supervision of a licensed tradesman (i.e. Plumber, Electrician, etc.) Laborers shall work under such supervision.

RESIDENTIAL CONSTRUCTION- All residential construction (not commercial), single-family, stand-alone duplex houses, townhouses and multi-family buildings of not more than four (4) floors, including basement levels. Please note the construction must be residential in nature for ALL FLOORS at an elevation of no more than FOUR (4) FLOORS, INCLUDING BASEMENT. In addition, barracks and dormitories are not considered residential projects.

MODULAR RESIDENTIAL CONSTRUCTION- all aspects of modular residential construction (not commercial) at the site of installation of structures of no more than four (4) stories, including all excavation and site preparation, footings and foundation systems whether poured on-site or prefabricated, all underground waterproofing, underground utilities, concrete slabs, sidewalks, driveways, paving, hardscape and landscaping. Please note the construction must be residential in nature for ALL STORIES at an elevation of no more than FOUR (4) STORIES. All work performed by the Set Crew (the crew of workers who set the modular boxes on the foundation), including the rigging, setting, attaching and assembly of all modules and structural members, preparation of the foundation to accept modules, such as sill plates, connection of all in-module and under-module connections including, but not limited to, plumbing, electrical, HVAC, fire suppression, CATS,

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

telephone, television/internet, and fiber optic, the building or installation of any porches or decks regardless of material or method of construction, the on-site installation of, or completion of any roof system, doors, windows and fenestrations, including flashing, gutter and soffit systems, waterproofing, insulation and interior and exterior trim work, and painting. Please note that modular construction does not include on-site stick built construction, tip up construction or panel built construction.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

OVERTIME:

Hours worked in excess of 8 per day/40 per week, Monday through Saturday, and all hours worked on Sunday and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOILDAYS:

New Year's Day, Martin Luther King Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Millwright

PREVAILING WAGE RATE

	11/01/17
Foreman	W55.21 B32.62 T87.83
Journeyman	W48.01 B28.44 T76.45

Craft: Millwright

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	50%	55%	60%	65%	70%	75%	85%	95%
Benefits	58% of	Appren	tice	Wage	Rate	for all	intervals	+ \$.60		

Ratio of Apprentices to Journeymen - 1:3

Craft: Millwright

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Millwrights on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Millwrights on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 7:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - MERCER

Craft: Operating Engineer PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	60%	70%	80%	90%						

Ratio of Apprentices to Journeymen - *

* 1 apprentice for each piece of heavy equipment. At least 10 pieces of heavy equipment or a minimum of 5 Operating Engineers must be on site.

Craft: Operating Engineer COMMENTS/NOTES

Operating Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Operating Engineer - Field Engineer

PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer - Field Engineer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	70%	75%	of Rod/	Chainman	Wage					
Yearly			80%	90%	Transit/	Instrument	man	Wage		

Ratio of Apprentices to Journeymen - *

* No more than 1 Field Engineer Apprentice per Survey Crew.

Craft: Operating Engineer - Field Engineer

COMMENTS/NOTES

Operating Engineer - Field Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Painter - Bridges

PREVAILING WAGE RATE

	05/04/17
Foreman	W59.13 B27.67 T86.80
General Foreman	W61.13 B27.67 T88.80
Journeyman	W54.13 B27.67 T81.80

Craft: Painter - Bridges

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%			60%	70%		80%	90%	
Benefits	Intervals	1 to 2 =	8.88	Intervals	3 to 4 =	10.81	Intervals	5 to 6 =	13.48	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Bridges

COMMENTS/NOTES

These rates apply to: All bridges that span waterways, roadways, railways and canyons. All tunnels, overpasses, viaducts and all appurtenances.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Painter - Line Striping

PREVAILING WAGE RATE

	12/01/17
Apprentice (1st year)	W25.45 B11.00 T36.45
Apprentice (2nd year)	W29.45 B18.00 T47.45
Foreman (Charge Person)	W37.60 B18.17 T55.77
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W33.33 B18.17 T51.50
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W37.10 B18.17 T55.27

Craft: Painter - Line Striping

COMMENTS/NOTES

OVERTIME:

Hours in excess of 8 per day, Monday through Saturday, and all hours on
Sundays and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day,
Thanksgiving Day and Christmas Day. Veterans Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Painter - New Construction

PREVAILING WAGE RATE

	08/03/17
Foreman	W43.18 B23.26 T66.44
General Foreman	W47.10 B23.51 T70.61
Journeyman	W39.25 B23.01 T62.26

Craft: Painter - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits							11.00	11.00	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	55%	65%	70%	75%	80%	90%
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Painter - Repainting

PREVAILING WAGE RATE

	05/26/17
Foreman	W31.95 B19.38 T51.33
General Foreman	W34.86 B19.51 T54.37
Journeyman	W29.05 B19.26 T48.31

Craft: Painter - Repainting

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	NEW	CONSTR	TION					
				UC						

Ratio of Apprentices to Journeymen - 1:4

Craft: Painter - Repainting

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations (only doing painting and carpeting with nothing else being changed in the office or on the project) occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tank, or generating stations.

Spraying, sandblasting, lead abatement, work on tanks or stacks, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Painter- Containment

PREVAILING WAGE RATE

	05/04/17
Journeyman	W35.18 B24.75 T59.93

Craft: Painter- Containment

COMMENTS/NOTES

NOTE: These rates shall require no painting, but used in a supporting capacity only, such as wrapping, boxing, fencing, etc. on tanks.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate..
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Painter-Elevated Water Tanks

PREVAILING WAGE RATE

	05/04/17
Foreman	W48.92 B24.92 T73.84
General Foreman	W50.92 B24.92 T75.84
Journeyman	W43.92 B24.92 T68.84

Craft: Painter-Elevated Water Tanks

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Elevated Water Tanks

COMMENTS/NOTES

These rates apply to: All new and repaint elevated water tanks (interior and exterior).

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Painter-Structural Steel

PREVAILING WAGE RATE

	05/04/17
Foreman	W47.87 B25.27 T73.14
General Foreman	W49.87 B25.27 T75.14
Journeyman	W42.87 B25.27 T68.14

Craft: Painter-Structural Steel

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAINTER	BRIDGES							

Craft: Painter-Structural Steel

COMMENTS/NOTES

These rates apply to: All work in power plants (any aspect). On steeples, on dams, on hangers, transformers, substations, etc. and on open steel, whether new or repaint. All new work (excluding traditional commercial painting work) in refineries, tank farms, water/sewerage treatment facilities and on pipelines.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Paperhanger - New Construction

PREVAILING WAGE RATE

	05/26/17
Foreman	W44.20 B23.33 T67.53
Journeyman	W40.19 B23.07 T63.26

Craft: Paperhanger - New Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
4 Months	30%	40%	50%	60%	70%	75%	80%	85%	90%	
Benefits							11.00	11.00	11.00	

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - New Construction

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON 5-1-14:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	55%	65%	70%	75%	80%	90%
Benefits	8.00	8.00	10.00	10.00	11.00	11.00	14.00	14.00

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Paperhanger - Renovation

PREVAILING WAGE RATE

	05/26/17
Foreman	W32.80 B19.42 T52.22
Journeyman	W29.82 B19.29 T49.11

Craft: Paperhanger - Renovation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	PAPER-	HANGER	NEW	CONSTR	TION				
					UC					

Ratio of Apprentices to Journeymen - 1:4

Craft: Paperhanger - Renovation

COMMENTS/NOTES

NOTE: These rates may only be used on jobs where no major alterations occur, and where not more than 3 other trades are present on the job, but may NOT, under any circumstances, be used for work on bridges, stacks, elevated tanks, or generating stations.

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

OVERTIME:

- Hours in excess of 8 per day and 40 per week shall be paid at time and one-half the regular rate.
- Four 10-hour days may be worked, at straight time, Monday through Sunday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Pipefitter

PREVAILING WAGE RATE

.

Craft: Pipefitter

COMMENTS/NOTES

See PLUMBERS Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Plasterer

PREVAILING WAGE RATE

See "Cement Mason" Rates

Craft: Plasterer

COMMENTS/NOTES

See CEMENT MASON Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Plumber

PREVAILING WAGE RATE

	07/01/17	07/01/18	07/01/19
Assistant General Foreman	W52.23 B37.46 T89.69	W0.00 B0.00 T91.91	W0.00 B0.00 T94.13
Foreman	W51.75 B37.46 T89.21	W0.00 B0.00 T91.43	W0.00 B0.00 T93.65
General Foreman	W54.63 B37.46 T92.09	W0.00 B0.00 T94.31	W0.00 B0.00 T96.53
Journeyman	W47.92 B37.46 T85.38	W0.00 B0.00 T87.60	W0.00 B0.00 T89.82

Craft: Plumber

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	35%	45%	55%	65%	75%					
Benefits	22.79	24.79	26.80	28.80	30.81					

Ratio of Apprentices to Journeymen - 1:4

Craft: Plumber

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 7-1-17:

INTERVAL	PERIOD AND RATES				
Yearly	35%	45%	55%	65%	75%
Benefits	23.76	25.87	27.98	30.09	32.20

The regular workday shall consist of 8 hours between 6:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS (number of Plumbers on site):

- (1 to 8)- 1 Foreman
- (9 to 16)- 1 Foreman and 1 Assistant General Foreman
- (17 to 40)- 1 Foreman for every (1 to 8 Plumbers) and 1 Assistant General Foreman every (1 to 5 gangs). One note, a "gang" is a group of 8 men.
- (41 and more)- 1 Foreman for every (1 to 8 Plumbers), 1 Assistant General Foreman every (1 to 5 gangs) and 1 General Foreman. One note, for every additional Assistant General Foreman over five designated, the General Foreman shall receive an additional 10 cents per hour.

SHIFT DIFFERENTIALS:

- The second shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 25%, inclusive of benefits.
- When a third shift is worked, the third shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

plus 30%, inclusive of benefits.

- A second shift may be established without a first shift, provided the second shift starts at 1:00 PM or later.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and the first 10 hours on Saturdays, shall be paid at time and one-half, inclusive of benefits. Hours in excess of 10 on Saturdays, and all hours on Sundays and holidays, shall be paid at double time, inclusive of benefits.

- Four 10-hour days may be worked, Mon to Thurs, at straight time, with Friday used as a make-up day for a day lost due to inclement weather. If Fri. is not a make-up day, the first 10 hours shall be paid at time and one-half, and hours in excess of 10 at double time, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Roofer

PREVAILING WAGE RATE

	05/25/17
Foreman (5 workers or less)	W38.15 B30.23 T68.38
Foreman (6 workers or more)	W38.65 B30.23 T68.88
Journeyman	W36.15 B30.23 T66.38

Craft: Roofer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	52%	55%	60%	75%						
Benefits	21.75	23.50	30.23	30.23						

Ratio of Apprentices to Journeymen - *

* 1:2, 2:4, 3:6, 4:8, 5:10, 6:12, 7:14

Craft: Roofer

COMMENTS/NOTES

NOTE: Mopper, Operator of Felt Laying Machine or Slag Dispenser shall receive an additional \$.50 per hour.

FOREMAN REQUIREMENTS:

- There must be a Foreman on all jobs.
- Foreman rate depends on the number of Roofers on the job, as indicated.

The regular workday is 8 hours between 5:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the wage rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Roofer - Shingle, Slate & Tile

PREVAILING WAGE RATE

	05/11/17
Foreman (3 workers or less)	W26.75 B19.87 T46.62
Foreman (4 workers or more)	W27.50 B19.87 T47.37
Helper	W13.25 B19.87 T33.12
Journeyman (shingle work)	W26.50 B19.87 T46.37

Craft: Roofer - Shingle, Slate & Tile

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	60%	70%	80%							

Ratio of Apprentices to Journeymen - *

* 1:2, 2:4, 3:6, 4:8, 5:10, 6:12, 7:14

Craft: Roofer - Shingle, Slate & Tile

COMMENTS/NOTES

NOTE: Above rates are for Shingle work only. Slate and Tile work rates are an additional \$3.00 per hour.

HELPER RATIO: 1 Helper to 1 Journeyman

FOREMAN REQUIREMENTS:

- There must be a Foreman on all jobs.
- Foreman rate depends on the number of Roofers on the job, as indicated.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the wage rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Sheet Metal Sign Installation

PREVAILING WAGE RATE

	07/28/17
Foreman	W27.03 B22.76 T49.79
Journeyman	W25.03 B22.76 T47.79

Craft: Sheet Metal Sign Installation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	40%	45%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:2

Craft: Sheet Metal Sign Installation

COMMENTS/NOTES

HAZARDOUS DUTY:

Sign Installers working from a bosun's chair or outside swinging scaffold at a height of 60 feet or more: + \$5.00 per hour.

FOREMAN REQUIREMENTS:

When there are 3 or more Sign Installers on a job, one must be designated a Foreman.

The regular workday shall be 8 hours, between 8:00 AM and 5:00 PM.

OVERTIME:

Hours in excess of 8 per day, or outside the regular workday, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at time and one-half the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Sheet Metal Worker

PREVAILING WAGE RATE

	06/01/17
Foreman	W48.71 B40.04 T88.75
Journeyman	W45.71 B40.04 T85.75

Craft: Sheet Metal Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 months	40%	45%	50%	55%	60%	65%	70%	75%		
Benefits	12.22	13.68	15.14	16.59	23.10	24.98	26.86	28.73		

Ratio of Apprentices to Journeymen- 1:3, except for the following types of work where the ratio shall be 1:1 (architectural metal work, testing and balancing, lockers, shelving and toilet partitions).*

* For work performed in a fabrication shop, the ratio will be applied on a "company-wide" basis (i.e. the total number of apprentices and journeymen employed by the company).

Craft: Sheet Metal Worker

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 6-1-17:

INTERVAL	PERIOD AND RATES							
6 Months	40%	45%	50%	55%	60%	65%	70%	75%
Benefits	13.04	14.57	16.10	17.63	19.15	26.32	28.28	30.24

JOB SITE FOREMAN REQUIREMENTS:

- When there are 2 to 9 Sheet Metal Workers on a jobsite, 1 must be designated a Foreman.
- When there are 10 to 16 Sheet Metal Workers on a job site, 2 must be designated Foremen.
- When there are 17 to 23 Sheet Metal Workers on a job site, 3 must be designated Foremen.
- For every 7 additional Sheet Metal Workers on a job site, there shall be 1 additional Foreman.

SHOP FOREMAN REQUIREMENTS (For custom fabrication):

- When there are 1 to 10 Sheet Metal Workers in the shop, 1 must be designated a Foreman.
- For every 10 additional Sheet Metal Workers in the shop, 1 must be designated a Foreman.

The regular workday consists of 8 hours, between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- There must be a day shift worked in order to have a 2nd and/or 3rd Shift.
- Shop work does not satisfy shift requirements.
- 2nd Shift (4:30 PM-12:30 AM) shall be paid an additional 15% of the regular rate per hour inclusive of benefits, and

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

receive 8 hours pay for 7.5 hours of work.

- 3rd Shift (12:30 AM-8:00 AM) shall be paid an additional 25% of the regular rate per hour inclusive of benefits, and receive 8 hours pay for 7 hours of work.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and all hours on Saturday, shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holidays will be observed the preceding Friday, Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Sprinkler Fitter

PREVAILING WAGE RATE

	01/01/18
Foreman	W56.85 B26.27 T83.12
Journeyman	W53.60 B26.27 T79.87

Craft: Sprinkler Fitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	18.14	20.52	22.65	25.03	27.40	30.28	32.66	34.79	37.16	39.54
Benefits	10.87	10.87	13.80	20.52	20.85	21.17	21.50	21.82	22.15	22.47

Ratio of Apprentices to Journeymen - 1:4

Craft: Sprinkler Fitter

COMMENTS/NOTES

The regular workday shall be 8 hours, between 7:00 AM and 4:30 PM

SHIFT DIFFERENTIALS:

-Second and third shifts shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours outside of the regular workday, and the first 2 hours in excess of 8 per day (9th and 10th hours), Monday through Friday, and the first 8 hours on Saturdays shall be paid at time and one-half the hourly rate. Hours in excess of 10 per day, Monday through Friday, hours in excess of 8 on Saturdays, and all hours on Sundays and holidays shall be paid at double the hourly rate.
- Employees may work four 10-hour days at straight time, Monday through Friday, between 7:00 AM and 6:30 PM. The first 2 hours in excess of 10 per day (11th and 12th hours), the first 10 hours on the fifth day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. Hours in excess of 12 per day, Monday through Friday, and all hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, the day after Thanksgiving, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Tile Finisher-Marble

PREVAILING WAGE RATE

	01/01/18
Finisher	W46.66 B34.18 T80.84

Craft: Tile Finisher-Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	65%	70%	75%	85%	90%	95%		

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Finisher-Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Tile Setter - Ceramic

PREVAILING WAGE RATE

	12/04/17
Finisher	W44.14 B29.76 T73.90
Setter	W57.27 B33.02 T90.29

Craft: Tile Setter - Ceramic

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Ceramic

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Saturdays after 10 hours shall be paid double the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Tile Setter - Marble

PREVAILING WAGE RATE

	01/01/18
Tile Setter	W58.53 B36.37 T94.90

Craft: Tile Setter - Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	65%	70%	75%	85%	90%	95%		

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Tile Setter - Mosaic & Terrazzo

PREVAILING WAGE RATE

	01/01/18
Grinder or Assistant	W53.45 B34.90 T88.35
Mechanic	W55.05 B34.92 T89.97
Terrazzo Resinous Worker	W45.90 B28.27 T74.17

Craft: Tile Setter - Mosaic & Terrazzo

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	50%	55%	60%	65%	70%	75%	85%	95%	100%	

Ratio of Apprentices to Journeymen - 1:5

Craft: Tile Setter - Mosaic & Terrazzo

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM ON OR AFTER 1-1-18:

INTERVAL	PERIOD AND RATES							
1500 Hours	35%	45%	60%	70%	80%	90%	100%	

The regular workday consists of 7 hours, between 8:00 AM and 3:30 PM.

OVERTIME:

- Hours in excess of 7 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Monday after Easter, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Truck Driver

PREVAILING WAGE RATE

	11/01/17
Bucket, Utility, Pick-up, Fuel Delivery trucks	W39.90 B31.38 T71.28
Dump truck (single axle), Asphalt Distributor, Tack Spreader	W39.90 B31.38 T71.28
Euclid-type vehicles (large off-road equipment)	W40.05 B31.38 T71.43
Helper on Asphalt Distributor truck	W39.90 B31.38 T71.28
Slurry Seal, Seeding/Fertilizing/Mulchi ng truck	W39.90 B31.38 T71.28
Straight 3-axle trucks, Dump Truck (3-axle), Dump Truck (tandem)	W39.95 B31.38 T71.33
Tractor-Trailer truck (all types)	W40.05 B31.38 T71.43
Vacuum or Vac-All truck (entire unit)	W39.90 B31.38 T71.28
Winch Trailer Driver	W40.15 B31.38 T71.53

Craft: Truck Driver

COMMENTS/NOTES

Foreman: + \$.75 cents per hour. Overtime rate shall be increased accordingly.

HAZARDOUS WASTE REMOVAL WORK:

- On a hazardous waste site requiring Level A, B, or C personal protection for any worker: + \$3.00 per hour.
- On a hazardous waste site not designated Level A, B, or C: + \$1.00 per hour.

The regular workday consists of 8 hours starting at either 6:00 AM or 8:00 AM.

SHIFT DIFFERENTIAL:

Any shift starting at a time other than 6:00 AM or 8:00 AM shall receive an additional \$2.50 per hour.

BLENDED RATE:

- When a truck driver is performing work on site and also serving as a material delivery driver, the driver shall be paid a

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

"blended rate" which shall be 80% of the above-listed wage rates, plus the full benefit rate. This rate shall be used when the driver "round robins" for a minimum of 6 hours during the work day.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Benefits on overtime shall be \$36.73.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Truck Driver-Material Delivery Driver

PREVAILING WAGE RATE

	11/01/17
Driver	W31.96 B31.38 T63.34
New Hires: 1st Year	W31.96 B31.38 T63.34

Craft: Truck Driver-Material Delivery Driver

COMMENTS/NOTES

NOTE: These rates may only be used for the delivery of materials to the jobsite.

OVERTIME: Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on

Sundays and holidays shall be paid at double the hourly rate. Benefits on overtime shall be paid accordingly: On 9-20-16 (\$35.03), on 11-1-16 (\$35.63), on 5-1-17 (\$36.13), and on 11-1-17 (\$36.73).

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - MERCER

Craft: Welder

PREVAILING WAGE RATE

Welder

Craft: Welder

COMMENTS/NOTES

Welders rate is the same as the craft to which the welding is incidental .

STATEWIDE RATES

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) * receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
48.98	31.70	80.68	82.03	83.03	85.38

CLASSIFICATIONS:

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumpcrete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Asphalt Curbing Machine

Asphalt Plant Engineer

Asphalt Spreader

Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)

Autograde Curecrete Machine (CMI & similar types)

Autograde Tube Finisher & Texturing Machine (CMI & similar types)

Bar Bending Machines (Power)

Batcher, Batching Plant, & Crusher [On Site]

Belt Conveyor System

Boom-Type Skimmer Machine

Bridge Deck Finisher

Bulldozer (all sizes)

Captain (Power Boats)

Car Dumper (railroad)

Compressor & Blower unit for loading/unloading of concrete,
cement, fly ash, or similar type materials (used independently
or truck-mounted)

Compressor (2 or 3 battery)

Concrete Breaking Machine

Concrete Cleaning/Decontamination Machine

Concrete Finishing Machine

Concrete Saw or Cutter (ride-on type)

Concrete Spreader (Hetzl, Rexomatic & similar types)

Concrete Vibrator

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Conveyors - under 125 feet

Crane Signalman

Crushing Machine

Directional Boring Machine

Ditching Machine - Small (Ditchwitch, Vermeer or similar types)

Dope Pot - Mechanical (with or without pump)

Dumpster

Elevator

Fireman

Fork Lift (Economobile, Lull & similar types)

Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)

Generator (2 or 3 battery)

Giraffe Grinder

Goldhofer/Hydraulic Jacking Trailer

Grader & Motor Patrols

Grout Pump

Gunnite Machine (Excluding nozzle)

Hammer - Vibratory (in conjunction with generator)

Heavy Equipment Robotics - Operator/Technician

Hoist (roof, tugger, aerial platform hoist, house car)

Hopper

Hopper Doors (power operated)

Ladder (motorized)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Laddervator

Locomotive (Dinky-type)

Maintenance Utility Man

Master Environmental Maintenance Technician

Mechanic

Mixer (Except paving mixers)

Pavement Breaker (truck-mounted or small self-propelled
ride-on type)

Pavement Breaker - maintenance of compressor or hydraulic unit

Pipe Bending Machine (power)

Pitch Pump

Plaster Pump (regardless of size)

Post Hole Digger (post pounder, auger)

Rod Bending Machines

Roller (black top)

Scale (power)

Seamen Pulverizing Mixer

Shoulder Widener

Silo

Skimmer Machine (boom type)

Steel Cutting Machine (service & maintenance)

Tamrock Drill

Tractor

Transfer Machines

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.07	31.70	78.77	80.12	81.12	83.47

CLASSIFICATIONS:

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System -
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.31	31.70	83.01	84.36	85.36	87.71

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Autograde Pavement Profiler (CMI & similar types)

Autograde Pavement Profiler - Recycle Type (CMI & similar types)

Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)

Autograde Slipform Paver (CMI & similar types)

Backhoe (Excavator)

Central Power Plant

Concrete Paving Machine

Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.

Draglines

Drill, Bauer, AMI and similar types

Drillmaster, Quarrymaster

Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill

Elevator Grader

Field Engineer-Chief of Party

Front End Loader (5 cu. yards or larger)

Gradall

Grader, Rago

Helicopter Co-Pilot

Helicopter Communications Engineer

Juntann Pile Driver

Locomotive (large)

Mucking Machine

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Pavement & Concrete Breaker (Superhammer & Hoe Ram)

Pile Driver

Prentice Truck

Roadway Surface Grinder

Scooper (loader & shovel)

Shovel (Excavator)

Trackhoe (Excavator)

Tree Chopper with boom

Trenching Machine (cable plow)

Tunnel Boring Machine

Vacuum Truck

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Chipper

Compressor (single)

Concrete Spreader (small type)

Conveyor Loader (Except elevator graders)

Engines, Large Diesel (1620 HP) & Staging Pump

Farm Tractor

Fertilizing Equipment (operation & maintenance)

Fine Grade Machine (small type)

Form Line Grader (small type)

Front End Loader (under 1 cubic yard)

Generator (single)

Grease, Gas, Fuel, & Oil Supply Trucks

Heaters (Nelson or other type)

Lights - portable generating light plant

Mixer, Concrete (small)

Mulching Equipment (operation & maintenance)

Power Broom or Sweeper

Pump (diesel engine & hydraulic - regardless of power)

Pump (larger than 2 inch suction, including submersible pumps)

Road Finishing Machine (small type)

Roller - grade, fill, or stone base

Seeding Equipment (operation & maintenance)

Sprinkler & Water Pump Trucks

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.44	31.70	77.14	78.49	79.49	81.84

CLASSIFICATIONS:

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including
proprane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and
maintenance)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.39	31.70	84.09	85.44	86.44	88.79

CLASSIFICATIONS:

Helicopter Pilot/Engineer

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.07	31.70	88.77	90.12	91.12	93.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
56.07	31.70	87.77	89.12	90.12	92.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to
139 ft.

OPERATING ENGINEERS **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.57	31.70	84.27	85.62	86.62	88.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
55.07	31.70	86.77	88.12	89.12	91.47

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.57	31.70	83.27	84.62	85.62	87.97

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

	01/01/2018		07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.20	31.70	85.90	87.25	88.25	90.60

CLASSIFICATIONS:

Helicopter Co-Pilot & Communications Engineer

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.14	31.70	81.84	83.19	84.19	86.54

CLASSIFICATIONS:

A-Frame

Cherry Picker -10 tons or less (Over 10 tons use crane rate)

Hoist (all types Except Chicago-boom)

Jack (screw, air hydraulic, power-operated unit or console
type, Except hand jack or pile load test type)

Side Boom

Straddle Carrier

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
47.48	31.70	79.18	80.53	81.53	83.88

CLASSIFICATIONS:

Aerial Platform Used On Hoists

Apprentice Engineer/Oiler with Compressor or Welding Machine

Captain (Power Boats)

Compressor (2 or 3 in battery)

Concrete Cleaning/Decontamination Machine Operator

Conveyor or Tugger Hoist

Directional Boring Machine

Elevator or House Car

Fireman

Forklift

Generator (2 or 3)

Heavy Equipment Robotics, Operator/Technician

Maintenance Utility Man

Master Environmental Maintenance Technician

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician

Vacuum Blasting Machine Operator/Maintenance Technician

Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
45.95	31.70	77.65	79.00	80.00	82.35

CLASSIFICATIONS:

Compressor (Single)

Generators

Welding Machines, Gas, Diesel, Or Electric Converters of any type-single

Welding System, Multiple (Rectifier Transformer Type)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
44.19	31.70	75.89	77.24	78.24	80.59

CLASSIFICATIONS:

Assistant Engineer/Oiler

Drillers Helper

Field Engineer - Transit/Instrument Man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Off Road Back Dump

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
51.76	31.70	83.46	84.81	85.81	88.16

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
41.15	31.70	72.85	74.20	75.20	77.55

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

STRUCTURAL STEEL ERECTION **Rates Expiration Date : 03/31/2020**

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.90	31.70	82.60	83.95	84.95	87.30

CLASSIFICATIONS:

Field Engineer-Chief of Party

Vacuum Truck

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
59.09	31.70	90.79	92.14	93.14	95.49

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
57.43	31.70	89.13	90.48	91.48	93.83

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
52.93	31.70	84.63	85.98	86.98	89.33

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

STRUCTURAL STEEL ERECTION Rates Expiration Date : 03/31/2020

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
54.59	31.70	86.29	87.64	88.64	90.99

CLASSIFICATIONS:

Helicopter Pilot & Engineer

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST **Rates Expiration Date : 03/31/2020**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for 5 consecutive workdays.
- When 2 shifts are worked, the second shift shall receive an additional 10% of the regular rate inclusive of benefits, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, plus an additional 10% of the regular rate inclusive of benefits, per hour. The third shift shall receive 8 hours pay for 7 hours of work, plus an additional 15% of the regular rate inclusive of benefits, per hour.
- When such hours are mandated by the project owner, a shift that starts between 8:00 PM and midnight and ends by 6:00 AM Saturday, or that starts after 8:00 PM on Sunday, provided there are consecutive hours of work within the shift, shall receive an additional 15% of the regular rate, inclusive of benefits.
- On Highway, Road, Street, and Sewer projects irregular shifts starting between 5:00 PM and 12:00 AM may be worked Monday through Friday, and shall receive an additional 15% of the regular rate, inclusive of benefits. When working with other trades that receive a higher irregular shift rate, the Operating Engineer shall also receive the higher irregular shift rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veteran's Day.

On hazardous waste removal work or asbestos removal work, on a state or federally designated hazardous waste site, where the operating engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin, and eye protection, the operating engineer shall receive an additional 20% of the hourly wage, per hour.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
50.57	31.70	82.27	83.62	84.62	86.97

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
43.73	31.70	75.43	76.78	77.78	80.13

CLASSIFICATIONS:

Driller's Helper

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.00	29.73	71.73	73.03	75.78	78.28

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.70	29.73	71.43	72.73	75.48	77.98

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.20	29.73	70.93	72.23	74.98	77.48

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.70	29.73	73.43	74.73	77.48	79.98

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.65	29.73	70.38	71.68	74.43	76.93

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.30	29.73	70.03	71.33	74.08	76.58

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.15	29.73	69.88	71.18	73.93	76.43

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

DRILL FOR GROUND WATER SUPPLY **Rates Expiration Date : 03/31/2020**

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
49.32	31.70	81.02	82.37	83.37	85.72

CLASSIFICATIONS:

Driller

Effective Dates:

01/01/2018			07/01/2018	01/01/2019	07/01/2019
Rate	Fringe	Total	Total	Total	Total
42.48	31.70	74.18	75.53	76.53	78.88

CLASSIFICATIONS:

Driller's Helper

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

OVERTIME:

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

10/01/2017

Rate	Fringe	Total
38.18	14.33	52.51

CLASSIFICATIONS:

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator (over 1000 HP)

Effective Dates:

10/01/2017

Rate	Fringe	Total
33.03	13.92	46.95

CLASSIFICATIONS:

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

Effective Dates:

10/01/2017

Rate	Fringe	Total
31.09	13.77	44.86

CLASSIFICATIONS:

Certified Welder

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date : 09/30/2018**

Effective Dates:

10/01/2017

Rate	Fringe	Total
30.24	13.40	43.64

CLASSIFICATIONS:

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

Effective Dates:

10/01/2017

Rate	Fringe	Total
29.26	13.32	42.58

CLASSIFICATIONS:

Boat Operator

Effective Dates:

10/01/2017

Rate	Fringe	Total
24.30	12.62	36.92

CLASSIFICATIONS:

Shoreman, Deckhand, Rodman, Scowman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL **Rates Expiration Date : 02/28/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem
IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.

SHIFT DIFFERENTIALS:

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

OVERTIME:

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

Effective Dates:

03/01/2017

Rate	Fringe	Total
36.50	21.27	57.77

CLASSIFICATIONS:

Foreman

Effective Dates:

03/01/2017

Rate	Fringe	Total
33.80	21.27	55.07

CLASSIFICATIONS:

Box man

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Microsurface/Slurry Preparation

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Squeegee man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL Rates Expiration Date : 02/28/2018

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

CLASSIFICATIONS:

Cleaner, Taper

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Paving Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.05	29.73	69.78	71.08	73.83	76.33

CLASSIFICATIONS:

Head Raker

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.90	29.73	69.63	70.93	73.68	76.18

CLASSIFICATIONS:

Raker, Screedman, Luteman

ASPHALT LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.65	29.73	69.38	70.68	73.43	75.93

CLASSIFICATIONS:

Tampers, Smoothers, Kettlemen,
Painters, Shovelers, Roller Boys

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.75	29.73	69.48	70.78	73.53	76.03

CLASSIFICATIONS:

Milling Controller

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Traffic Control Coordinator

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH **Rates Expiration Date : 10/16/2018**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

SHIFT DIFFERENTIAL:

Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$1.00 per hour.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Hazardous Waste Pay (for Levels A, B, and C): an additional 10% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:

- 1st year on the job - 70% of Helper wage rate
- 2nd year on the job - 80% of Helper wage rate
- 3rd year on the job - 90% of Helper wage rate
- All helpers receive full fringe benefit rate.

Effective Dates:

10/17/2017

Rate	Fringe	Total
31.62	25.55	57.17

CLASSIFICATIONS:

Helper (4th year helper)

Effective Dates:

10/17/2017

Rate	Fringe	Total
39.69	25.55	65.24

CLASSIFICATIONS:

Driller

Effective Dates:

10/17/2017

Rate	Fringe	Total
45.73	25.55	71.28

CLASSIFICATIONS:

Foreman

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; traffic control coordinator; asphalt raker or lute man

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

"A" Rate:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

"GENERAL FOREMAN" Rate

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

basic, landscape, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofers; tree cutter, timberman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

wagon drill or drill master helper; powder carrier; magazine tender; signal man

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

wagon or directional drill operator; drill master

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
43.75	29.73	73.48	74.78	77.53	80.03

CLASSIFICATIONS:

blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

labor foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
42.50	29.73	72.23	73.53	76.28	78.78

CLASSIFICATIONS:

general foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; rammer; gunite nozzle man

PIPELINE - MAINLINE TRANSMISSION **Rates Expiration Date : 06/03/2018**

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$42.50; Pipeline Journeyman Welder: \$102.50; and Pipeline Helper: \$42.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
 - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
 - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman Welder

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

PIPELINE - MAINLINE TRANSMISSION Rates Expiration Date : 06/03/2018

Effective Dates:

06/05/2017

Rate	Fringe	Total
54.58	28.97	83.55

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

06/05/2017

Rate	Fringe	Total
33.27	19.97	53.24

CLASSIFICATIONS:

Pipeline Helper

PIPELINE - GAS DISTRIBUTION **Rates Expiration Date : 10/31/2020**

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

SHIFT DIFFERENTIALS:

An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman Welder

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
58.83	22.55	81.38	82.96	84.63

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

11/05/2017			11/01/2018	11/01/2019
Rate	Fringe	Total	Total	Total
37.68	16.74	54.42	56.00	57.67

CLASSIFICATIONS:

Pipeline Helper

ASPHALT LABORERS- NORTH **Rates Expiration Date : 02/28/2021**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
41.50	29.73	71.23	72.53	75.28	77.78

CLASSIFICATIONS:

Asphalt Foreman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
40.20	29.73	69.93	71.23	73.98	76.48

CLASSIFICATIONS:

Asphalt Screedman

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.95	29.73	69.68	70.98	73.73	76.23

CLASSIFICATIONS:

Asphalt Raker or Lute Man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ASPHALT LABORERS- NORTH Rates Expiration Date : 02/28/2021

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
39.25	29.73	68.98	70.28	73.03	75.53

CLASSIFICATIONS:

Asphalt Laborer

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Electrician-Utility Work (North)

(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).

These rates apply to work contracted for by the following utility companies:

Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.

These rates do not apply to work on substations or switching stations.

For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.

3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.

Four 10-hour days may be worked, at straight time, between 7:00 AM and 6:30 PM, Monday through Thursday.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
53.70	35.97	89.67	92.06	94.45	96.84

CLASSIFICATIONS:

Chief Lineman

Effective Dates:

	12/05/2017		12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Journeyman Lineman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.66	33.94	84.60	86.85	89.11	91.36

CLASSIFICATIONS:

Special License Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Transit Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
48.64	32.58	81.22	83.38	85.53	87.70

CLASSIFICATIONS:

Line Equipment Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
42.56	28.51	71.07	72.96	74.84	76.73

CLASSIFICATIONS:

Dynamite Man

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
63.33	42.43	105.76	108.56	111.38	114.19

CLASSIFICATIONS:

General Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
58.26	39.03	97.29	99.88	102.47	105.05

CLASSIFICATIONS:

Assistant General Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
56.74	38.01	94.75	97.27	99.79	102.32

CLASSIFICATIONS:

Line Foreman

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
41.04	27.49	68.53	70.35	72.17	73.99

CLASSIFICATIONS:

Street Light Mechanical Leader

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Winch Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
39.01	26.13	65.14	66.88	68.62	70.34

CLASSIFICATIONS:

Groundman Truck Operator

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Street Light Mechanic

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
38.51	25.80	64.31	66.01	67.71	69.43

CLASSIFICATIONS:

Line Equipment Mechanic

ELECTRICIAN- UTILITY WORK (NORTH) **Rates Expiration Date : 11/30/2021**

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
32.93	22.06	54.99	56.46	57.91	59.38

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
30.40	20.36	50.76	52.12	53.47	54.80

CLASSIFICATIONS:

Groundman 1st Year

Effective Dates:

12/05/2017			12/02/2018	12/01/2019	11/29/2020
Rate	Fringe	Total	Total	Total	Total
50.16	33.60	83.76	85.98	88.22	90.44

CLASSIFICATIONS:

Line Equipment Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Electrician-Utility Work (South)

(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).

These rates apply to work contracted for by the following utility company:

Atlantic City Electric.

These rates do not apply to work on substations or switching stations.

For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North)", see the "Outside Commercial Rates" for the county in which the jobsite is located.

*** FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES**

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.

FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.

When two (2) or three (3) shifts are worked the following shall apply:

1st shift (between the hours of 8:00 AM and 4:30 PM)

2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

RECOGNIZED HOLIDAYS:

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

WORKING RULES:

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are more than twenty (20) employees on site.

A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.

Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.

On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.

There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

Effective Dates:

12/03/2017

Rate	Fringe	Total
60.25	46.05	106.30

CLASSIFICATIONS:

General Foreman

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
53.66	42.21	95.87

CLASSIFICATIONS:

Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
50.84	40.58	91.42

CLASSIFICATIONS:

Small Job Foreman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Heavy Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Cable Splicer

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Lineman

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Welder

ELECTRICIAN- UTILITY WORK (SOUTH) **Rates Expiration Date : 12/04/2021**

Effective Dates:

12/03/2017

Rate	Fringe	Total
47.07	38.39	85.46

CLASSIFICATIONS:

Journeyman Painter

Effective Dates:

12/03/2017

Rate	Fringe	Total
37.66	32.92	70.58

CLASSIFICATIONS:

Light Equipment Operator

Effective Dates:

12/03/2017

Rate	Fringe	Total
32.95	30.18	63.13

CLASSIFICATIONS:

Groundman Truck Driver

Effective Dates:

12/03/2017

Rate	Fringe	Total
30.60	28.82	59.42

CLASSIFICATIONS:

Groundman 3rd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
28.24	27.44	55.68

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/03/2017

Rate	Fringe	Total
25.89	26.08	51.97

CLASSIFICATIONS:

Groundman 1st Year

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

ELECTRICIAN- UTILITY WORK (SOUTH) Rates Expiration Date : 12/04/2021

Effective Dates:

12/03/2017

Rate	Fringe	Total
20.71	23.07	43.78

CLASSIFICATIONS:

Flagman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

****THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY****

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$2.50 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$3.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
63.00	29.73	92.73	94.41	97.91	101.16

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

	03/01/2018		09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
62.55	29.73	92.28	93.96	97.46	100.71

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
61.80	29.73	91.53	93.21	96.71	99.96

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
65.55	29.73	95.28	96.96	100.46	103.71

CLASSIFICATIONS:

Blaster

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.98	29.73	90.71	92.38	95.88	99.13

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.45	29.73	90.18	91.86	95.36	98.61

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
60.23	29.73	89.96	91.63	95.13	98.38

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date : 02/28/2021**

Effective Dates:

03/01/2018			09/01/2018	03/01/2019	03/01/2020
Rate	Fringe	Total	Total	Total	Total
59.63	29.73	89.36	91.03	94.53	97.78

CLASSIFICATIONS:

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
List of Exhibits**



**TAB 10
LIST OF EXHIBITS**

**Electronic Surveillance / Detection System (ESS)
Maintenance Contract**

**Request for Proposals
Contract No. DB-724A
Capital Project: 1801A**

**Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Capital Project: 1801A
Electronic Surveillance / Detection System (ESS)
Maintenance Contract
List of Exhibits**

Table of Contents

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TAB 10 Exhibit A - Hardware Inventory Summary (As-Built) FOR INFORMATION PURPOSES ONLY

Location		Equipment Type																
Site	TB / TSB	Cameras	Network Switches	ACS Server and Central Application Platform	ACS Readers, Inputs and Outputs					Workstations	Servers	Video Encoders	Wireless Communications		SunWize	Generators	UPS	
					Door lock	Remote release	Door sensor	Reader	Request to exit				Repeater	Collection Point			Rack Mount	Standalone
Delaware Water Gap TB	TB	32	1	1	20	0	21	18	19	2	1	2	2	1	2	N/A	1	4
Easton-Phillipsburg TB	TB	26	1	1	9	1	12	12	13	3	2	2	0	2	N/A	N/A	1	3
I-78 / Rt 611 TB	TB	18	1	0	N/A	N/A	N/A	N/A	N/A	N/A	1	1	8	1	8	1	1	0
I-78 TB	TB	43	1	2	28	0	28	29	25	6	1	1	2	2	2	N/A	1	6
Milford-Montague TB	TB	20	1	1	7	0	9	8	10	1	1	1	1	1	1	N/A	1	1
New Hope-Lambertville TB	TB	27	1	1	22	1	18	24	17	6	9	2	2	2	2	N/A	1	6
Portland-Columbia TB	TB	27	1	1	7	0	7	8	10	2	1	2	2	2	2	N/A	1	2
Trenton-Morrisville TB	TB	27	1	2	28	1	28	31	29	4	1	2	6	2	6	N/A	1	5
Calhoun Street TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	2	1	1	N/A	N/A	N/A	1	1	2
Centre Bridge-Stockton TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	1	1	1	1	1	1	1	1	1
Lower Trenton TSB	TSB	15	1	0	N/A	N/A	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1	1
New Hope-Lambertville TSB	TSB	11	1	0	N/A	N/A	N/A	N/A	N/A	2	1	1	N/A	N/A	N/A	N/A	1	2
Northampton Street TSB	TSB	14	1	0	N/A	N/A	N/A	N/A	N/A	2	1	N/A	N/A	N/A	N/A	1	1	2
Portland-Columbia Pedestrian Bridge	TSB	0	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	2	N/A	N/A	N/A	N/A
Riegelsville TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	2	1	N/A	N/A	N/A	N/A	1	1	2
Riverton-Belvidere TSB	TSB	10	1	0	N/A	N/A	N/A	N/A	N/A	1	1	N/A	N/A	N/A	N/A	1	1	1
Scudder Falls TSB	TSB	15	1	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	5	1	1	0
Uhlerstown-Frenchtown TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	1	1	N/A	N/A	N/A	N/A	1	1	1
Upper Black Eddy-Milford TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	1	1	N/A	N/A	N/A	N/A	1	1	1
Washington Crossing TSB	TSB	11	1	0	N/A	N/A	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1	1
Primary Control Center	N/A	0	1	0	N/A	N/A	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	1	3
TOTAL		356	20	9	121	3	123	130	123	41	27	18	27	19	29	11	20	44

TAB 10 Exhibit A - Hardware Inventory Summary (Sept. 30, 2018) FOR INFORMATION PURPOSES ONLY

Location		Equipment Type																
Site	TB / TSB	Cameras	Network Switches	ACS Server and Central Application Platform	ACS Readers, Inputs and Outputs					Workstations	Servers	Video Encoders	Wireless Communications		Solar Power	Generators	UPS	
					Door lock	Remote release	Door sensor	Reader	Request to exit				Repeater	Collection Point			Rack Mount	Standalone
Delaware Water Gap TB	TB	32	1	1	21	0	22	19	20	2	1	2	2	1	2	N/A	1	4
Easton-Phillipsburg TB	TB	26	1	1	10	1	13	13	14	3	2	2	0	2	N/A	N/A	1	3
I-78 / Rt 611 TB	TB	18	1	0	N/A	N/A	N/A	N/A	N/A	N/A	1	1	8	1	8	1	1	0
I-78 TB	TB	46	1	2	29	0	29	30	26	8	1	1	2	2	2	N/A	1	6
Milford-Montague TB	TB	20	1	1	8	0	10	9	11	1	1	1	1	1	1	N/A	1	1
New Hope-Lambertville TB	TB	29	1	1	23	1	19	25	18	6	9	2	1	1	1	N/A	1	6
Portland-Columbia TB	TB	27	1	1	8	0	8	9	11	2	1	2	2	2	2	N/A	1	2
Trenton-Morrisville TB	TB	34	1	2	29	1	29	32	30	5	1	2	6	2	6	N/A	1	5
Calhoun Street TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	2	1	1	N/A	N/A	N/A	1	1	2
Centre Bridge-Stockton TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	1	1	1	1	1	1	1	1	1
Lower Trenton TSB	TSB	15	1	0	N/A	N/A	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1	1
New Hope-Lambertville TSB	TSB	11	1	0	N/A	N/A	N/A	N/A	N/A	2	1	1	N/A	N/A	N/A	N/A	1	2
Northampton Street TSB	TSB	14	1	0	N/A	N/A	N/A	N/A	N/A	2	1	N/A	N/A	N/A	N/A	1	1	2
Portland-Columbia Pedestrian Bridge	TSB	N/A	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	2	N/A	N/A	N/A	N/A
Riegelsville TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	2	1	N/A	N/A	N/A	N/A	1	1	2
Riverton-Belvidere TSB	TSB	10	1	0	N/A	N/A	N/A	N/A	N/A	1	1	N/A	N/A	N/A	N/A	1	1	1
Scudder Falls TSB	TSB	15	1	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	3	5	1	1	0
Uhlerstown-Frenchtown TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	1	1	N/A	N/A	N/A	N/A	1	1	1
Upper Black Eddy-Milford TSB	TSB	12	1	0	N/A	N/A	N/A	N/A	N/A	1	1	N/A	N/A	N/A	N/A	1	1	1
Washington Crossing TSB	TSB	11	1	0	N/A	N/A	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1	1
Primary Control Center	N/A	N/A	1	0	N/A	N/A	N/A	N/A	N/A	3	N/A	N/A	N/A	N/A	N/A	N/A	1	3
TOTAL		368	20	9	128	3	130	137	130	44	27	18	26	18	28	11	20	44

TAB 10 Exhibit A - ACS Server and Central Application Platform

FOR INFORMATION PURPOSES ONLY

Unit	Unit type	Manufacturer	Product type	Role	Firmware version
CL.DWG.01 Admin Building	Access control	Genetec	Synergis Cloud Link	Access Manager	10.4.568.0
CL.EP.01 Admin Building	Access control	Genetec	Synergis Cloud Link	Access Manager	10.4.568.0
CL.I78.01 Maintenance	Access control	Genetec	Synergis Cloud Link	Access Manager	10.4.568.0
CL.I78.02 Admin Building	Access control	Genetec	Synergis Cloud Link	Access Manager	10.4.568.0
CL.MM.01 Admin Building	Access control	Genetec	Synergis Cloud Link	Access Manager	10.4.568.0
CL.NHL.01 Admin Building	Access control	Genetec	Synergis Cloud Link	Access Manager	10.4.568.0
CL.PC.01 Admin Building	Access control	Genetec	Synergis Cloud Link	Access Manager	10.5.500.4
CL.TM.01 Admin Building	Access control	Genetec	Synergis Cloud Link	Access Manager	10.4.568.0
CL.TM.02 Maintenance	Access control	Genetec	Synergis Cloud Link	Access Manager	10.4.568.0

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

FOR INFORMATION PURPOSES ONLY

Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.DWG.01 Admin Building	Synergis	MR50.DWG.154 [RDU.DWG.10]	RX.DWG.154	Request to exit	cr_DWG_R154 Large Vehicle Maint to Maint Office
CL.DWG.01 Admin Building	Synergis	MR52.DWG.138 [RDU.DWG.15]	EL.DWG.138	Door lock	cr_DWG_R138 Carpentry Shop
CL.DWG.01 Admin Building	Synergis	MR52.DWG.105 [RDU.DWG.04]	DC.DWG.105	Door sensor	cr_DWG_R105 Admin Garage Main Ent
CL.DWG.01 Admin Building	Synergis	MR50.DWG.157 [RDU.DWG.11]	EL.DWG.157	Door lock	cr_DWG_R157 Maint Office to Maint Storage
CL.DWG.01 Admin Building	Synergis	MR52.DWG.110 [RDU.DWG.06]	RX.DWG.110	Request to exit	cr_DWG_R110 Admin Garage to Break Room
CL.DWG.01 Admin Building	Synergis	MR52.DWG.105 [RDU.DWG.04]	RX.DWG.105	Request to exit	cr_DWG_R105 Admin Garage Main Ent
CL.DWG.01 Admin Building	Synergis	MR50.DWG.149 [RDU.DWG.18]	EL.DWG.149	Door lock	cr_DWG_R149 Toll Tunnel - Free Side
CL.DWG.01 Admin Building	Synergis	MR50.DWG.111 [RDU.DWG.02]	CR.DWG.111	Reader	cr_DWG_R111 Admin Garage to Main Hall
CL.DWG.01 Admin Building	Synergis	MR52.DWG.103_133 [RDU.DWG.09]	EL.DWG.103	Door lock	cr_DWG_R103 Conference Room Ext Ent
CL.DWG.01 Admin Building	Synergis	MR50.DWG.126 [RDU.DWG.03]	CR.DWG.126	Reader	cr_DWG_R126 OIC Office
CL.DWG.01 Admin Building	Synergis	MR52.DWG.103_133 [RDU.DWG.09]	EL.DWG.133	Door lock	cr_DWG_R133 Banking
CL.DWG.01 Admin Building	Synergis	MR52.DWG.103_133 [RDU.DWG.09]	DC.DWG.133	Door sensor	cr_DWG_R133 Banking
CL.DWG.01 Admin Building	Synergis	MR52.DWG.101 [RDU.DWG.05]	EL.DWG.101	Door lock	cr_DWG_R101 Admin Garage Side Ent
CL.DWG.01 Admin Building	Synergis	MR52.DWG.139 [RDU.DWG.16]	EL.DWG.139	Door lock	cr_DWG_R139 Small Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR50.DWG.154 [RDU.DWG.10]	CR.DWG.154	Reader	cr_DWG_R154 Large Vehicle Maint to Maint Office
CL.DWG.01 Admin Building	Synergis	MR50.DWG.162 [RDU.DWG.08]	EL.DWG.162	Door lock	cr_DWG_R162 Large Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR50.DWG.126 [RDU.DWG.03]	RX.DWG.126	Request to exit	cr_DWG_R126 OIC Office
CL.DWG.01 Admin Building	Synergis	MR52.DWG.105 [RDU.DWG.04]	EL.DWG.105	Door lock	cr_DWG_R105 Admin Garage Main Ent
CL.DWG.01 Admin Building	Synergis	MR52.DWG.149MG [RDU.DWG.13]	DC.DWG.149MG	Door sensor	cr_DWG_R149MG Maint Gar Main Ent
CL.DWG.01 Admin Building	Synergis	MR52.DWG.163 [ACP.DWG.01]	EL.DWG.163	Door lock	cr_DWG_R163 Counting Room
CL.DWG.01 Admin Building	Synergis	MR50.DWG.158 [RDU.DWG.14]	RX.DWG.158	Request to exit	cr_DWG_R158 Large Vehicle Maint to Storage
CL.DWG.01 Admin Building	Synergis	MR50.DWG.111 [RDU.DWG.02]	RX.DWG.111	Request to exit	cr_DWG_R111 Admin Garage to Main Hall
CL.DWG.01 Admin Building	Synergis	MR50.DWG.104 [RDU.DWG.03]	RX.DWG.104	Request to exit	cr_DWG_R104 Main Ent From Toll
CL.DWG.01 Admin Building	Synergis	MR52.DWG.103_133 [RDU.DWG.09]	RX.DWG.103	Request to exit	cr_DWG_R103 Conference Room Ext Ent
CL.DWG.01 Admin Building	Synergis	MR52.DWG.159 [RDU.DWG.17]	DC.DWG.159	Door sensor	cr_DWG_R159 Large Vehicle Maint to Ramp
CL.DWG.01 Admin Building	Synergis	MR50.DWG.158 [RDU.DWG.14]	CR.DWG.158	Reader	cr_DWG_R158 Large Vehicle Maint to Storage
CL.DWG.01 Admin Building	Synergis	MR50.DWG.149 [RDU.DWG.18]	RX.DWG.149	Request to exit	cr_DWG_R149 Toll Tunnel - Free Side
CL.DWG.01 Admin Building	Synergis	MR52.DWG.139 [RDU.DWG.16]	DC.DWG.139	Door sensor	cr_DWG_R139 Small Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR50.DWG.102 [RDU.DWG.02]	RX.DWG.102	Request to exit	cr_DWG_R102 Rear Entrance
CL.DWG.01 Admin Building	Synergis	MR50.DWG.158 [RDU.DWG.14]	DC.DWG.158	Door sensor	cr_DWG_R158 Large Vehicle Maint to Storage
CL.DWG.01 Admin Building	Synergis	MR50.DWG.104 [RDU.DWG.03]	CR.DWG.104	Reader	cr_DWG_R104 Main Ent From Toll
CL.DWG.01 Admin Building	Synergis	MR50.DWG.146 [RDU.DWG.18]	EL.DWG.146	Door lock	cr_DWG_R146 Toll Tunnel - Toll Side
CL.DWG.01 Admin Building	Synergis	MR50.DWG.111 [RDU.DWG.02]	DC.DWG.111	Door sensor	cr_DWG_R111 Admin Garage to Main Hall
CL.DWG.01 Admin Building	Synergis	MR52.DWG.103_133 [RDU.DWG.09]	DC.DWG.103	Door sensor	cr_DWG_R103 Conference Room Ext Ent
CL.DWG.01 Admin Building	Synergis	MR50.DWG.149 [RDU.DWG.18]	CR.DWG.149	Reader	cr_DWG_R149 Toll Tunnel - Free Side
CL.DWG.01 Admin Building	Synergis	MR50.DWG.146 [RDU.DWG.18]	RX.DWG.146	Request to exit	cr_DWG_R146 Toll Tunnel - Toll Side
CL.DWG.01 Admin Building	Synergis	MR50.DWG.003 [RDU.DWG.01]	EL.DWG.003	Door lock	cr_DWG_R003 ESS Room
CL.DWG.01 Admin Building	Synergis	MR52.DWG.103_133 [RDU.DWG.09]	RX.DWG.133	Request to exit	cr_DWG_R133 Banking
CL.DWG.01 Admin Building	Synergis	MR52.DWG.105 [RDU.DWG.04]	CR.DWG.105	Reader	cr_DWG_R105 Admin Garage Main Ent
CL.DWG.01 Admin Building	Synergis	MR52.DWG.110 [RDU.DWG.06]	CR.DWG.110	Reader	cr_DWG_R110 Admin Garage to Break Room
CL.DWG.01 Admin Building	Synergis	MR50.DWG.146 [RDU.DWG.18]	DC.DWG.146	Door sensor	cr_DWG_R146 Toll Tunnel - Toll Side
CL.DWG.01 Admin Building	Synergis	MR52.DWG.159 [RDU.DWG.17]	EL.DWG.159	Door lock	cr_DWG_R159 Large Vehicle Maint to Ramp
CL.DWG.01 Admin Building	Synergis	MR52.DWG.110 [RDU.DWG.06]	EL.DWG.110	Door lock	cr_DWG_R110 Admin Garage to Break Room
CL.DWG.01 Admin Building	Synergis	MR50.DWG.102 [RDU.DWG.02]	DC.DWG.102	Door sensor	cr_DWG_R102 Rear Entrance

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

FOR INFORMATION PURPOSES ONLY

Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.DWG.01 Admin Building	Synergis	MR50.DWG.154 [RDU.DWG.10]	EL.DWG.154	Door lock	cr_DWG_R154 Large Vehicle Maint to Maint Office
CL.DWG.01 Admin Building	Synergis	MR52.DWG.150 [RDU.DWG.07]	RX.DWG.150	Request to exit	cr_DWG_R150 Large Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR50.DWG.147 [RDU.DWG.12]	CR.DWG.147	Reader	cr_DWG_R147 Maint Gar to Maint Shop
CL.DWG.01 Admin Building	Synergis	MR52.DWG.163 [ACP.DWG.01]	RX.DWG.163	Request to exit	cr_DWG_R163 Counting Room
CL.DWG.01 Admin Building	Synergis	MR50.DWG.126 [RDU.DWG.03]	EL.DWG.126	Door lock	cr_DWG_R126 OIC Office
CL.DWG.01 Admin Building	Synergis	MR50.DWG.157 [RDU.DWG.11]	DC.DWG.157	Door sensor	cr_DWG_R157 Maint Office to Maint Storage
CL.DWG.01 Admin Building	Synergis	MR50.DWG.104 [RDU.DWG.03]	EL.DWG.104	Door lock	cr_DWG_R104 Main Ent From Toll
CL.DWG.01 Admin Building	Synergis	MR52.DWG.150 [RDU.DWG.07]	CR.DWG.150	Reader	cr_DWG_R150 Large Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR50.DWG.157 [RDU.DWG.11]	CR.DWG.157	Reader	cr_DWG_R157 Maint Office to Maint Storage
CL.DWG.01 Admin Building	Synergis	MR50.DWG.158 [RDU.DWG.14]	EL.DWG.158	Door lock	cr_DWG_R158 Large Vehicle Maint to Storage
CL.DWG.01 Admin Building	Synergis	MR52.DWG.159 [RDU.DWG.17]	RX.DWG.159	Request to exit	cr_DWG_R159 Large Vehicle Maint to Ramp
CL.DWG.01 Admin Building	Synergis	MR52.DWG.103_133 [RDU.DWG.09]	CR.DWG.103	Reader	cr_DWG_R103 Conference Room Ext Ent
CL.DWG.01 Admin Building	Synergis	MR52.DWG.138 [RDU.DWG.15]	CR.DWG.138	Reader	cr_DWG_R138 Carpentry Shop
CL.DWG.01 Admin Building	Synergis	MR50.DWG.147 [RDU.DWG.12]	DC.DWG.147	Door sensor	cr_DWG_R147 Maint Gar to Maint Shop
CL.DWG.01 Admin Building	Synergis	MR50.DWG.147 [RDU.DWG.12]	RX.DWG.147	Request to exit	cr_DWG_R147 Maint Gar to Maint Shop
CL.DWG.01 Admin Building	Synergis	MR52.DWG.163 [ACP.DWG.01]	CR.DWG.163	Reader	cr_DWG_R163 Counting Room
CL.DWG.01 Admin Building	Synergis	MR50.DWG.104 [RDU.DWG.03]	DC.DWG.104	Door sensor	cr_DWG_R104 Main Ent From Toll
CL.DWG.01 Admin Building	Synergis	MR50.DWG.157 [RDU.DWG.11]	RX.DWG.157	Request to exit	cr_DWG_R157 Maint Office to Maint Storage
CL.DWG.01 Admin Building	Synergis	MR50.DWG.102 [RDU.DWG.02]	EL.DWG.102	Door lock	cr_DWG_R102 Rear Entrance
CL.DWG.01 Admin Building	Synergis	MR52.DWG.101 [RDU.DWG.05]	CR.DWG.101	Reader	cr_DWG_R101 Admin Garage Side Ent
CL.DWG.01 Admin Building	Synergis	MR52.DWG.163 [ACP.DWG.01]	DC.DWG.163	Door sensor	cr_DWG_R163 Counting Room
CL.DWG.01 Admin Building	Synergis	MR50.DWG.162 [RDU.DWG.08]	CR.DWG.162	Reader	cr_DWG_R162 Large Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR52.DWG.159 [RDU.DWG.17]	CR.DWG.159	Reader	cr_DWG_R159 Large Vehicle Maint to Ramp
CL.DWG.01 Admin Building	Synergis	MR50.DWG.149 [RDU.DWG.18]	DC.DWG.149	Door sensor	cr_DWG_R149 Toll Tunnel - Free Side
CL.DWG.01 Admin Building	Synergis	MR50.DWG.126 [RDU.DWG.03]	DC.DWG.126	Door sensor	cr_DWG_R126 OIC Office
CL.DWG.01 Admin Building	Synergis	MR50.DWG.003 [RDU.DWG.01]	DC.DWG.003	Door sensor	cr_DWG_R003 ESS Room
CL.DWG.01 Admin Building	Synergis	MR52.DWG.103_133 [RDU.DWG.09]	CR.DWG.133	Reader	cr_DWG_R133 Banking
CL.DWG.01 Admin Building	Synergis	MR52.DWG.149MG [RDU.DWG.13]	EL.DWG.149MG	Door lock	cr_DWG_R149MG Maint Gar Main Ent
CL.DWG.01 Admin Building	Synergis	MR50.DWG.162 [RDU.DWG.08]	RX.DWG.162	Request to exit	cr_DWG_R162 Large Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR52.DWG.150 [RDU.DWG.07]	DC.DWG.150	Door sensor	cr_DWG_R150 Large Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR52.DWG.101 [RDU.DWG.05]	DC.DWG.101	Door sensor	cr_DWG_R101 Admin Garage Side Ent
CL.DWG.01 Admin Building	Synergis	MR50.DWG.162 [RDU.DWG.08]	DC.DWG.162	Door sensor	cr_DWG_R162 Large Vehicle Maint
CL.DWG.01 Admin Building	Synergis	MR52.DWG.110 [RDU.DWG.06]	DC.DWG.110	Door sensor	cr_DWG_R110 Admin Garage to Break Room
CL.DWG.01 Admin Building	Synergis	MR52.DWG.149MG [RDU.DWG.13]	RX.DWG.149MG	Request to exit	cr_DWG_R149MG Maint Gar Main Ent
CL.EP.01 Admin Building	Synergis	MR52.EP.128 [RDU.EP.08]	DC.EP.128	Door sensor	cr_EP_R128 Maint Gar From Admin Building
CL.EP.01 Admin Building	Synergis	MR50.EP.302 [RDU.EP.02]	RX.EP.302	Request to exit	cr_EP_R302 MDF Room
CL.EP.01 Admin Building	Synergis	MR50.EP.303 [RDU.EP.02]	DC.EP.303	Door sensor	cr_EP_R303 IT Office
CL.EP.01 Admin Building	Synergis	MR50.EP.307 [RDU.EP.01]	RX.EP.3078	Request to exit	cr_EP_R307 ESS Room
CL.EP.01 Admin Building	Synergis	MR50.EP.115 [RDU.EP.13]	DC.EP.115	Door sensor	cr_EP_R115 Small Vehicle Garage to 1st Fl Hall
CL.EP.01 Admin Building	Synergis	MR50.EP.115 [RDU.EP.13]	EL.EP.115	Door lock	cr_EP_R115 Small Vehicle Garage to 1st Fl Hall
CL.EP.01 Admin Building	Synergis	MR52.EP.109 [RDU.EP.12]	CR.EP.109	Reader	cr_EP_R109 First Floor Rear Ent
CL.EP.01 Admin Building	Synergis	MR52.EP.326 [RDU.EP.04]	RX.EP.326	Request to exit	cr_EP_R326 Banking
CL.EP.01 Admin Building	Synergis	MR52.EP.103 [RDU.EP.06]	DC.EP.103	Door sensor	cr_EP_R103 Sign Shop Ent
CL.EP.01 Admin Building	Synergis	MR52.EP.128 [RDU.EP.08]	EL.EP.128	Door lock	cr_EP_R128 Maint Gar From Admin Building

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

FOR INFORMATION PURPOSES ONLY

Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.EP.01 Admin Building	Synergis	MR52.EP.314 [RDU.EP.03]	EL.EP.314	Door lock	cr_EP_R314 Main Ent Third Floor
CL.EP.01 Admin Building	Synergis	MR50.EP.116 [RDU.EP13]	DC.EP.116	Door sensor	cr_EP_R116 Boiler Room
CL.EP.01 Admin Building	Synergis	MR52.EP.128 [RDU.EP.08]	RX.EP.128	Request to exit	cr_EP_R128 Maint Gar From Admin Building
CL.EP.01 Admin Building	Synergis	MR52.EP.133 [RDU.EP.10]	CR.EP.133	Reader	cr_EP_R133 Maint Garage Far Ent
CL.EP.01 Admin Building	Synergis	MR52.EP.102 [RDU.EP.07]	RX.EP.102	Request to exit	cr_EP_R102 Employee Entrance
CL.EP.01 Admin Building	Synergis	MR52.EP.314 [RDU.EP.03]	CR.EP.314	Reader	cr_EP_R314 Main Ent Third Floor
CL.EP.01 Admin Building	Synergis	MR52.EP.314 [RDU.EP.03]	DC.EP.314	Door sensor	cr_EP_R314 Main Ent Third Floor
CL.EP.01 Admin Building	Synergis	MR52.EP.102 [RDU.EP.07]	EL.EP.102	Door lock	cr_EP_R102 Employee Entrance
CL.EP.01 Admin Building	Synergis	MR50.EP.332 [RDU.EP.05]	EL.EP.332	Door lock	cr_EP_R332 Toll Tunnel Ent
CL.EP.01 Admin Building	Synergis	MR52.EP.131 [RDU.EP.09]	DC.EP.131	Door sensor	cr_EP_R131 Maint Garage Middle Entrance
CL.EP.01 Admin Building	Synergis	MR52.EP.128 [RDU.EP.08]	CR.EP.128	Reader	cr_EP_R128 Maint Gar From Admin Building
CL.EP.01 Admin Building	Synergis	MR50.EP.333 [RDU.EP.05]	DC.EP.333	Door sensor	cr_EP_R333 OIC Office
CL.EP.01 Admin Building	Synergis	MR52.EP.133 [RDU.EP.10]	RX.EP.133	Request to exit	cr_EP_R133 Maint Garage Far Ent
CL.EP.01 Admin Building	Synergis	MR50.EP.332 [RDU.EP.05]	DC.EP.332	Door sensor	cr_EP_R332 Toll Tunnel Ent
CL.EP.01 Admin Building	Synergis	MR50.EP.115 [RDU.EP.13]	CR.EP.115	Reader	cr_EP_R115 Small Vehicle Garage to 1st Fl Hall
CL.EP.01 Admin Building	Synergis	MR50.EP.116 [RDU.EP13]	RX.EP.116	Request to exit	cr_EP_R116 Boiler Room
CL.EP.01 Admin Building	Synergis	MR50.EP.303 [RDU.EP.02]	CR.EP.303	Reader	cr_EP_R303 IT Office
CL.EP.01 Admin Building	Synergis	MR52.EP.113 [RDU.EP.14]	CR.EP.113	Reader	cr_EP_R113 Admin Garage to First Floor Ent
CL.EP.01 Admin Building	Synergis	MR52.EP.113 [RDU.EP.14]	EL.EP.113	Door lock	cr_EP_R113 Admin Garage to First Floor Ent
CL.EP.01 Admin Building	Synergis	MR52.EP.103 [RDU.EP.06]	CR.EP.103	Reader	cr_EP_R103 Sign Shop Ent
CL.EP.01 Admin Building	Synergis	MR50.EP.105 [RDU.EP.11]	DC.EP.105	Door sensor	cr_EP_R105 Handicap Ent Ground Level
CL.EP.01 Admin Building	Synergis	MR52.EP.103 [RDU.EP.06]	EL.EP.103	Door lock	cr_EP_R103 Sign Shop Ent
CL.EP.01 Admin Building	Synergis	MR50.EP.116 [RDU.EP13]	CR.EP.116	Reader	cr_EP_R116 Boiler Room
CL.EP.01 Admin Building	Synergis	MR52.EP.131 [RDU.EP.09]	RX.EP.131	Request to exit	cr_EP_R131 Maint Garage Middle Entrance
CL.EP.01 Admin Building	Synergis	MR50.EP.105 [RDU.EP.11]	RX.EP.105	Request to exit	cr_EP_R105 Handicap Ent Ground Level
CL.EP.01 Admin Building	Synergis	MR52.EP.326 [RDU.EP.04]	CR.EP.326	Reader	cr_EP_R326 Banking
CL.EP.01 Admin Building	Synergis	MR52.EP.314 [RDU.EP.03]	RX.EP.314	Request to exit	cr_EP_R314 Main Ent Third Floor
CL.EP.01 Admin Building	Synergis	MR50.EP.307 [RDU.EP.01]	DC.EP.307	Door sensor	cr_EP_R307 ESS Room
CL.EP.01 Admin Building	Synergis	MR52.EP.314 [RDU.EP.03]	DRB.EP.314 Door Release Button	Remote release	cr_EP_R314 Main Ent Third Floor
CL.EP.01 Admin Building	Synergis	MR50.EP.332 [RDU.EP.05]	CR.EP.332	Reader	cr_EP_R332 Toll Tunnel Ent
CL.EP.01 Admin Building	Synergis	MR52.EP.113 [RDU.EP.14]	RX.EP.113	Request to exit	cr_EP_R113 Admin Garage to First Floor Ent
CL.EP.01 Admin Building	Synergis	MR50.EP.303 [RDU.EP.02]	RX.EP.303	Request to exit	cr_EP_R303 IT Office
CL.EP.01 Admin Building	Synergis	MR50.EP.116 [RDU.EP13]	EL.EP.116	Door lock	cr_EP_R116 Boiler Room
CL.EP.01 Admin Building	Synergis	MR50.EP.333 [RDU.EP.05]	CR.EP.333	Reader	cr_EP_R333 OIC Office
CL.EP.01 Admin Building	Synergis	MR50.EP.307 [RDU.EP.01]	EL.EP.307	Door lock	cr_EP_R307 ESS Room
CL.EP.01 Admin Building	Synergis	MR50.EP.333 [RDU.EP.05]	RX.EP.333	Request to exit	cr_EP_R333 OIC Office
CL.EP.01 Admin Building	Synergis	MR52.EP.109 [RDU.EP12]	DC.EP.109	Door sensor	cr_EP_R109 First Floor Rear Ent
CL.I78.01 Maintenance	Synergis	MR50.I78.09 [ACP.I78.1]	CR.I78.09	Reader	CR.I78.R009
CL.I78.01 Maintenance	Synergis	MR50.I78.38 [ACP.I78.1]	EL.I78.38	Door lock	CR.I78.R038 East Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.06 [ACP.I78.1]	CR.I78.06	Reader	CR.I78.R006
CL.I78.01 Maintenance	Synergis	MR50.I78.03 [ACP.I78.1]	CR.I78.03	Reader	CR.I78.R003
CL.I78.01 Maintenance	Synergis	MR50.I78.16 [ACP.I78.1]	CR.I78.16	Reader	CR.I78.R016
CL.I78.01 Maintenance	Synergis	MR50.I78.01 [ACP.I78.1]	CR.I78.01	Reader	CR.I78.R001
CL.I78.01 Maintenance	Synergis	MR50.I78.10 [ACP.I78.1]	EL.I78.10	Door lock	CR.I78.R010

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Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.I78.01 Maintenance	Synergis	MR50.I78.06 [ACP.I78.1]	RX.I78.06	Request to exit	CR.I78.R006
CL.I78.01 Maintenance	Synergis	MR50.I78.15 [ACP.I78.1]	CR.I78.15	Reader	CR.I78.R015
CL.I78.01 Maintenance	Synergis	MR50.I78.14 [ACP.I78.1]	CR.I78.14	Reader	CR.I78.R014
CL.I78.01 Maintenance	Synergis	MR50.I78.27 [ACP.I78.1]	RX.I78.27	Request to exit	CR.I78.R027 Vehicle Storage Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.26 [ACP.I78.1]	EL.I78.22	Door lock	CR.I78.R026 Maintenance Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.39 [ACP.I78.1]	RX.I78.39	Request to exit	CR.I78.R039
CL.I78.01 Maintenance	Synergis	MR50.I78.13 [ACP.I78.1]	CR.I78.13	Reader	CR.I78.R013
CL.I78.01 Maintenance	Synergis	MR50.I78.09 [ACP.I78.1]	EL.I78.09	Door lock	CR.I78.R009
CL.I78.01 Maintenance	Synergis	MR50.I78.27 [ACP.I78.1]	EL.I78.27	Door lock	CR.I78.R027 Vehicle Storage Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.01 [ACP.I78.1]	RX.I78.01	Request to exit	CR.I78.R001
CL.I78.01 Maintenance	Synergis	MR50.I78.01 [ACP.I78.1]	DC.I78.01	Door sensor	CR.I78.R001
CL.I78.01 Maintenance	Synergis	MR50.I78.21 [ACP.I78.1]	CR.I78.21	Reader	CR.I78.R021
CL.I78.01 Maintenance	Synergis	MR50.I78.22 [ACP.I78.1]	DC.I78.22	Door sensor	CR.I78.R022 Electrical Room
CL.I78.01 Maintenance	Synergis	MR50.I78.14 [ACP.I78.1]	EL.I78.14	Door lock	CR.I78.R014
CL.I78.01 Maintenance	Synergis	MR50.I78.14 [ACP.I78.1]	RX.I78.14	Request to exit	CR.I78.R014
CL.I78.01 Maintenance	Synergis	MR50.I78.01 [ACP.I78.1]	EL.I78.01	Door lock	CR.I78.R001
CL.I78.01 Maintenance	Synergis	MR50.I78.10 [ACP.I78.1]	DC.I78.10	Door sensor	CR.I78.R010
CL.I78.01 Maintenance	Synergis	MR50.I78.22 [ACP.I78.1]	CR.I78.22	Reader	CR.I78.R022 Electrical Room
CL.I78.01 Maintenance	Synergis	MR50.I78.16 [ACP.I78.1]	RX.I78.16	Request to exit	CR.I78.R016
CL.I78.01 Maintenance	Synergis	MR50.I78.13 [ACP.I78.1]	DC.I78.13	Door sensor	CR.I78.R013
CL.I78.01 Maintenance	Synergis	MR50.I78.15 [ACP.I78.1]	RX.I78.,15	Request to exit	CR.I78.R015
CL.I78.01 Maintenance	Synergis	MR50.I78.30 [ACP.I78.1]	CR.I78.30	Reader	CR.I78.R030 Tools & Parts Storage
CL.I78.01 Maintenance	Synergis	MR50.I78.15 [ACP.I78.1]	DC.I78.15	Door sensor	CR.I78.R015
CL.I78.01 Maintenance	Synergis	MR50.I78.22 [ACP.I78.1]	EL.I78.22	Door lock	CR.I78.R022 Electrical Room
CL.I78.01 Maintenance	Synergis	MR50.I78.39 [ACP.I78.1]	DC.I78.39	Door sensor	CR.I78.R039
CL.I78.01 Maintenance	Synergis	MR50.I78.16 [ACP.I78.1]	EL.I78.16	Door lock	CR.I78.R016
CL.I78.01 Maintenance	Synergis	MR50.I78.26 [ACP.I78.1]	CR.I78.26	Reader	CR.I78.R026 Maintenance Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.21 [ACP.I78.1]	DC.I78.21	Door sensor	CR.I78.R021
CL.I78.01 Maintenance	Synergis	MR50.I78.03 [ACP.I78.1]	DC.I78.03	Door sensor	CR.I78.R003
CL.I78.01 Maintenance	Synergis	MR50.I78.27 [ACP.I78.1]	CR.I78.27	Reader	CR.I78.R027 Vehicle Storage Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.30 [ACP.I78.1]	DC.I78.30	Door sensor	CR.I78.R030 Tools & Parts Storage
CL.I78.01 Maintenance	Synergis	MR50.I78.38 [ACP.I78.1]	CR.I78.38	Reader	CR.I78.R038 East Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.09 [ACP.I78.1]	DC.I78.09	Door sensor	CR.I78.R009
CL.I78.01 Maintenance	Synergis	MR50.I78.26 [ACP.I78.1]	DC.I78.26	Door sensor	CR.I78.R026 Maintenance Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.39 [ACP.I78.1]	CR.I78.39	Reader	CR.I78.R039
CL.I78.01 Maintenance	Synergis	MR50.I78.21 [ACP.I78.1]	EL.I78.21	Door lock	CR.I78.R021
CL.I78.01 Maintenance	Synergis	MR50.I78.26 [ACP.I78.1]	RX.I78.26	Request to exit	CR.I78.R026 Maintenance Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.30 [ACP.I78.1]	EL.I78.30	Door lock	CR.I78.R030 Tools & Parts Storage
CL.I78.01 Maintenance	Synergis	MR50.I78.13 [ACP.I78.1]	EL.I78.13	Door lock	CR.I78.R013
CL.I78.01 Maintenance	Synergis	MR50.I78.13 [ACP.I78.1]	RX.I78.13	Request to exit	CR.I78.R013
CL.I78.01 Maintenance	Synergis	MR50.I78.03 [ACP.I78.1]	RX.I78.03	Request to exit	CR.I78.R003
CL.I78.01 Maintenance	Synergis	MR50.I78.38 [ACP.I78.1]	DC.I78.38	Door sensor	CR.I78.R038 East Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.09 [ACP.I78.1]	RX.I78.09	Request to exit	CR.I78.R009
CL.I78.01 Maintenance	Synergis	MR50.I78.06 [ACP.I78.1]	EL.I78.06	Door lock	CR.I78.R006

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

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Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.I78.01 Maintenance	Synergis	MR50.I78.39 [ACP.I78.1]	EL.I78.39	Door lock	CR.I78.R039
CL.I78.01 Maintenance	Synergis	MR50.I78.27 [ACP.I78.1]	DC.I78.27	Door sensor	CR.I78.R027 Vehicle Storage Entrance
CL.I78.01 Maintenance	Synergis	MR50.I78.16 [ACP.I78.1]	DC.I78.16	Door sensor	CR.I78.R016
CL.I78.01 Maintenance	Synergis	MR50.I78.06 [ACP.I78.1]	DC.I78.06	Door sensor	CR.I78.R006
CL.I78.01 Maintenance	Synergis	MR50.I78.10 [ACP.I78.1]	RX.I78.10	Request to exit	CR.I78.R010
CL.I78.01 Maintenance	Synergis	MR50.I78.14 [ACP.I78.1]	DC.I78.14	Door sensor	CR.I78.R014
CL.I78.01 Maintenance	Synergis	MR50.I78.03 [ACP.I78.1]	EL.I78.03	Door lock	CR.I78.R003
CL.I78.02 Admin Building	Synergis	MR50.I78.117 [RDU.I78.01] (Port 2 - 6)	RX.I78.117	Request to exit	cr_I78_R117 ESS-IT Room
CL.I78.02 Admin Building	Synergis	MR50.I78.220 [RDU.I78.02]	RX.I78.220	Request to exit	cr_I78_R220 2nd Floor Entrance to Admin Building from Above Toll
CL.I78.02 Admin Building	Synergis	MR50.I78.102 [RDU.I78.03] (Port 2 - 2)	CR.I78.102	Reader	cr_I78_R102 Front Entrance
CL.I78.02 Admin Building	Synergis	MR50.I78.130 [ACP.I78.03]	EL.I78.130	Door lock	cr_I78_R130 Counting
CL.I78.02 Admin Building	Synergis	MR50.I78.109 [RDU.I78.06] (Port 2 - 4)	RX.I78.109	Request to exit	cr_I78_R109 Banking
CL.I78.02 Admin Building	Synergis	MR50.I78.107 [ACP.I78.03]	CR.I78.107	Reader	cr_I78_R107 Employee Entrance Inside Door
CL.I78.02 Admin Building	Synergis	MR50.I78.109 [RDU.I78.06] (Port 2 - 4)	CR.I78.109	Reader	cr_I78_R109 Banking
CL.I78.02 Admin Building	Synergis	MR50.I78.208 [RDU.I78.02] (Port 2 - 7)	RX.I78.208	Request to exit	cr_I78_R208 State Police
CL.I78.02 Admin Building	Synergis	MR50.I78.134 (Port 2 - 16)	RX.I78.134	Request to exit	cr_I78_R134 1st Flr Director of PSBS
CL.I78.02 Admin Building	Synergis	MR50.I78.109 [RDU.I78.06] (Port 2 - 4)	DC.I78.109	Door sensor	cr_I78_R109 Banking
CL.I78.02 Admin Building	Synergis	MR50.I78.208 [RDU.I78.02] (Port 2 - 7)	CR.I78.208	Reader	cr_I78_R208 State Police
CL.I78.02 Admin Building	Synergis	MR50.I78.102 [RDU.I78.03] (Port 2 - 2)	RX.I78.102	Request to exit	cr_I78_R102 Front Entrance
CL.I78.02 Admin Building	Synergis	MR50.I78.221 [ACP.I78.03]	DC.I78.221	Door sensor	cr_I78_R221 Toll Booth Attic
CL.I78.02 Admin Building	Synergis	MR50.I78.133 [RDU.I78.05]	CR.I78.133	Reader	cr_I78_R133 1st Floor Office Suite
CL.I78.02 Admin Building	Synergis	MR50.I78.117 [RDU.I78.01] (Port 2 - 6)	DC.I78.117	Door sensor	cr_I78_R117 ESS-IT Room
CL.I78.02 Admin Building	Synergis	MR50.I78.130 [ACP.I78.03]	DC.I78.130	Door sensor	cr_I78_R130 Counting
CL.I78.02 Admin Building	Synergis	MR50.I78.134 (Port 2 - 16)	CR.I78.134	Reader	cr_I78_R134 1st Flr Director of PSBS
CL.I78.02 Admin Building	Synergis	MR50.I78.210 [RDU.I78.02] (Port 2 - 8)	EL.I78.210	Door lock	cr_I78_R210 Welcome Center
CL.I78.02 Admin Building	Synergis	MR50.I78.133 [RDU.I78.05]	EL.I78.133	Door lock	cr_I78_R133 1st Floor Office Suite
CL.I78.02 Admin Building	Synergis	MR50.I78.130 [ACP.I78.03]	RX.I78.130	Request to exit	cr_I78_R130 Counting
CL.I78.02 Admin Building	Synergis	MR50.I78.133 [RDU.I78.05]	DC.I78.133	Door sensor	cr_I78_R133 1st Floor Office Suite
CL.I78.02 Admin Building	Synergis	MR50.I78.101 [RDU.I78.01] (Port 2 - 1)	DC.I78.101	Door sensor	cr_I78_R101 Rear Entrance - Boiler Room
CL.I78.02 Admin Building	Synergis	MR50.I78.221 [ACP.I78.03]	EL.I78.221	Door lock	cr_I78_R221 Toll Booth Attic
CL.I78.02 Admin Building	Synergis	MR50.I78.106 [RDU.I78.05] (Port 2 - 3)	RX.I78.106	Request to exit	cr_I78_R106 Employee Entrance
CL.I78.02 Admin Building	Synergis	MR50.I78.101 [RDU.I78.01] (Port 2 - 1)	EL.I78.101	Door lock	cr_I78_R101 Rear Entrance - Boiler Room
CL.I78.02 Admin Building	Synergis	MR50.I78.107 [ACP.I78.03]	EL.I78.107	Door lock	cr_I78_R107 Employee Entrance Inside Door
CL.I78.02 Admin Building	Synergis	MR50.I78.107 [ACP.I78.03]	DC.I78.107	Door sensor	cr_I78_R107 Employee Entrance Inside Door
CL.I78.02 Admin Building	Synergis	MR50.I78.102 [RDU.I78.03] (Port 2 - 2)	DC.I78.102	Door sensor	cr_I78_R102 Front Entrance
CL.I78.02 Admin Building	Synergis	MR50.I78.101 [RDU.I78.01] (Port 2 - 1)	RX.I78.101	Request to exit	cr_I78_R101 Rear Entrance - Boiler Room
CL.I78.02 Admin Building	Synergis	MR50.I78.221 [ACP.I78.03]	CR.I78.221	Reader	cr_I78_R221 Toll Booth Attic
CL.I78.02 Admin Building	Synergis	MR50.I78.106 [RDU.I78.05] (Port 2 - 3)	DC.I78.106	Door sensor	cr_I78_R106 Employee Entrance
CL.I78.02 Admin Building	Synergis	MR50.I78.220 [RDU.I78.02]	EL.I78.220	Door lock	cr_I78_R220 2nd Floor Entrance to Admin Building from Above Toll
CL.I78.02 Admin Building	Synergis	MR50.I78.135 (Port 2 - 17)	RX.I78.135	Request to exit	cr_I78_R135 1st Floor Office #2
CL.I78.02 Admin Building	Synergis	MR50.I78.208 [RDU.I78.02] (Port 2 - 7)	DC.I78.208	Door sensor	cr_I78_R208 State Police
CL.I78.02 Admin Building	Synergis	MR50.I78.135 (Port 2 - 17)	CR.I78.135	Reader	cr_I78_R135 1st Floor Office #2
CL.I78.02 Admin Building	Synergis	MR50.I78.135 (Port 2 - 17)	DC.I78.135	Door sensor	cr_I78_R135 1st Floor Office #2
CL.I78.02 Admin Building	Synergis	MR50.I78.133 [RDU.I78.05]	RX.I78.133	Request to exit	cr_I78_R133 1st Floor Office Suite

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

FOR INFORMATION PURPOSES ONLY

Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.I78.02 Admin Building	Synergis	MR50.I78.109 [RDU.I78.06] (Port 2 - 4)	EL.I78.109	Door lock	cr_I78_R109 Banking
CL.I78.02 Admin Building	Synergis	MR50.I78.210 [RDU.I78.02] (Port 2 - 8)	DC.I78.210	Door sensor	cr_I78_R210 Welcome Center
CL.I78.02 Admin Building	Synergis	MR50.I78.221 [ACP.I78.03]	RX.I78.221	Request to exit	cr_I78_R221 Toll Booth Attic
CL.I78.02 Admin Building	Synergis	MR50.I78.117 [RDU.I78.01] (Port 2 - 6)	EL.I78.117	Door lock	cr_I78_R117 ESS-IT Room
CL.I78.02 Admin Building	Synergis	MR50.I78.101 [RDU.I78.01] (Port 2 - 1)	CR.I78.101	Reader	cr_I78_R101 Rear Entrance - Boiler Room
CL.I78.02 Admin Building	Synergis	MR50.I78.102 [RDU.I78.03] (Port 2 - 2)	EL.I78.102	Door lock	cr_I78_R102 Front Entrance
CL.I78.02 Admin Building	Synergis	MR50.I78.110 [RDU.I78.06]	CR.I78.110	Reader	cr_I78_R131 Banking
CL.I78.02 Admin Building	Synergis	MR50.I78.106 [RDU.I78.05] (Port 2 - 3)	CR.I78.106	Reader	cr_I78_R106 Employee Entrance
CL.I78.02 Admin Building	Synergis	MR50.I78.220 [RDU.I78.02]	CR.I78.220	Reader	cr_I78_R220 2nd Floor Entrance to Admin Building from Above Toll
CL.I78.02 Admin Building	Synergis	MR50.I78.210 [RDU.I78.02] (Port 2 - 8)	CR.I78.210	Reader	cr_I78_R210 Welcome Center
CL.I78.02 Admin Building	Synergis	MR50.I78.130 [ACP.I78.03]	CR.I78.xx	Reader	cr_I78_R130 Counting
CL.I78.02 Admin Building	Synergis	MR50.I78.210 [RDU.I78.02] (Port 2 - 8)	RX.I78.210	Request to exit	cr_I78_R210 Welcome Center
CL.I78.02 Admin Building	Synergis	MR50.I78.135 (Port 2 - 17)	EL.I78.135	Door lock	cr_I78_R135 1st Floor Office #2
CL.I78.02 Admin Building	Synergis	MR50.I78.134 (Port 2 - 16)	EL.I78.134	Door lock	cr_I78_R134 1st Flr Director of PSBS
CL.I78.02 Admin Building	Synergis	MR50.I78.208 [RDU.I78.02] (Port 2 - 7)	EL.I78.208	Door lock	cr_I78_R208 State Police
CL.MM.01 Admin Building	Synergis	MR52.MM.103 [RDU.MM.05]	EL.MM.103	Door lock	cr_MM_R103 Attached Garage
CL.MM.01 Admin Building	Synergis	MR52.MM111 [RDU.MM.04]	EL.MM.111	Door lock	cr_MM_R111 Attached Garage into Foreman's Office
CL.MM.01 Admin Building	Synergis	MR52.MM.103 [RDU.MM.05]	CR.MM.103	Reader	cr_MM_R103 Attached Garage
CL.MM.01 Admin Building	Synergis	MR50.MM.101 [RDU.PC.01]	EL.MM.101	Door lock	cr_MM_R101 Front Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM.131 [RDU.MM.07]	RX.MM.131	Request to exit	cr_MM_R131 Detached Garage Side Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM111 [RDU.MM.04]	DC.MM.111	Door sensor	cr_MM_R111 Attached Garage into Foreman's Office
CL.MM.01 Admin Building	Synergis	MR52.MM.108 [RDU.MM.06]	DC.MM.108	Door sensor	cr_MM_R108 Attached Garage Rear Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM.140_118 [ACP.MM.01]	RX.MM.118	Request to exit	cr_MM_R118 Banking
CL.MM.01 Admin Building	Synergis	MR52.MM.108 [RDU.MM.06]	CR.MM.108	Reader	cr_MM_R108 Attached Garage Rear Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM.102 [RDU.MM.02]	RX.MM.102	Request to exit	cr_MM_R102 Rear Foreman's Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM.132 [RDU.MM.08]	DC.MM.132	Door sensor	cr_MM_R132 Detached Garage Front Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM.140_118 [ACP.MM.01]	DC.MM.140	Door sensor	cr_MM_R140 Counting
CL.MM.01 Admin Building	Synergis	MR52.MM.140_118 [ACP.MM.01]	EL.MM.118	Door lock	cr_MM_R118 Banking
CL.MM.01 Admin Building	Synergis	MR52.MM.140_118 [ACP.MM.01]	EL.MM.140	Door lock	cr_MM_R140 Counting
CL.MM.01 Admin Building	Synergis	MR52.MM.108 [RDU.MM.06]	RX.MM.108	Request to exit	cr_MM_R108 Attached Garage Rear Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM.103 [RDU.MM.05]	RX.MM.103	Request to exit	cr_MM_R103 Attached Garage
CL.MM.01 Admin Building	Synergis	MR50.MM.125 [RDU.MM.01]	DC.MM.125	Door sensor	cr_MM_R125 ESS Room
CL.MM.01 Admin Building	Synergis	MR52.MM111 [RDU.MM.04]	RX.MM.111	Request to exit	cr_MM_R111 Attached Garage into Foreman's Office
CL.MM.01 Admin Building	Synergis	MR50.MM.101 [RDU.PC.01]	CR.MM.101	Reader	cr_MM_R101 Front Entrance
CL.MM.01 Admin Building	Synergis	MR50.MM.128 [RDU.MM.03]	DC.MM.128	Door sensor	cr_MM_R128 OIC Office
CL.MM.01 Admin Building	Synergis	MR52.MM111 [RDU.MM.04]	CR.MM.111	Reader	cr_MM_R111 Attached Garage into Foreman's Office
CL.MM.01 Admin Building	Synergis	MR52.MM.140_118 [ACP.MM.01]	DC.MM.118	Door sensor	cr_MM_R118 Banking
CL.MM.01 Admin Building	Synergis	MR52.MM.131 [RDU.MM.07]	DC.MM.131	Door sensor	cr_MM_R131 Detached Garage Side Entrance
CL.MM.01 Admin Building	Synergis	MR50.MM.125 [RDU.MM.01]	RX.MM.125	Request to exit	cr_MM_R125 ESS Room
CL.MM.01 Admin Building	Synergis	MR52.MM.132 [RDU.MM.08]	CR.MM132	Reader	cr_MM_R132 Detached Garage Front Entrance
CL.MM.01 Admin Building	Synergis	MR50.MM.128 [RDU.MM.03]	RX.MM.128	Request to exit	cr_MM_R128 OIC Office
CL.MM.01 Admin Building	Synergis	MR50.MM.125 [RDU.MM.01]	CR.MM.125	Reader	cr_MM_R125 ESS Room
CL.MM.01 Admin Building	Synergis	MR52.MM.102 [RDU.MM.02]	CR.MM.102	Reader	cr_MM_R102 Rear Foreman's Entrance
CL.MM.01 Admin Building	Synergis	MR50.MM.101 [RDU.PC.01]	DC.MM.101	Door sensor	cr_MM_R101 Front Entrance

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

FOR INFORMATION PURPOSES ONLY

Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.MM.01 Admin Building	Synergis	MR50.MM.101 [RDU.PC.01]	RX.MM.101	Request to exit	cr_MM_R101 Front Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM.140_118 [ACP.MM.01]	RX.MM.140	Request to exit	cr_MM_R140 Counting
CL.MM.01 Admin Building	Synergis	MR52.MM.131 [RDU.MM.07]	CR.MMM.131	Reader	cr_MM_R131 Detached Garage Side Entrance
CL.MM.01 Admin Building	Synergis	MR52.MM.131 [RDU.MM.07]	EL.MM.131	Door lock	cr_MM_R131 Detached Garage Side Entrance
CL.MM.01 Admin Building	Synergis	MR50.MM.128 [RDU.MM.03]	EL.MM.128	Door lock	cr_MM_R128 OIC Office
CL.NHL.01 Admin Building	Synergis	MR50.NHL.134 [RDU.NHL.07]	EL.NHL.134	Door lock	cr_NHL_R134 Maint Hall From Lobby Ent
CL.NHL.01 Admin Building	Synergis	MR50.NHL.125 [RDU.NHL.07]	CR.NHL.125	Reader	cr_NHL_R125 Banking
CL.NHL.01 Admin Building	Synergis	MR52.NHL.135_136 [RDU.NHL..04]	EL.NHL.135	Door lock	cr_NHL_R135 Lobby to Stairwell
CL.NHL.01 Admin Building	Synergis	MR52.NHL.155 [RDU.NHL.17]	DC.NHL.155	Door sensor	cr_NHL_R155 Admin Garage 'B' into Building
CL.NHL.01 Admin Building	Synergis	MR50.NHL.227 [RDU.NHL.14]	EL.NHL.227	Door lock	cr_NHL_R227 Executive Wing From Stairwell
CL.NHL.01 Admin Building	Synergis	MR52.NHL.106 [RDU.NHL.11]	EL.NHL.106	Door lock	cr_NHL_R106 Maint Gar to Maint Hall
CL.NHL.01 Admin Building	Synergis	EP.NHL.03 Toll Support Bridge NJ	EL.NHLTSB.02	Door lock	cr_NHLTSB_NJEnt New Hope NJ Guard Shack
CL.NHL.01 Admin Building	Synergis	MR50.NHL.137 [RDU.NHL.03]	CR.NHL.137	Reader	cr_NHL_R137 Lobby Elevator
CL.NHL.01 Admin Building	Synergis	MR50.NHL.137 [RDU.NHL.03]	EL.NHL.137	Door lock	cr_NHL_R137 Lobby Elevator
CL.NHL.01 Admin Building	Synergis	MR50.NHL.158 [RDU.NHL.09]	CR.NHL.158	Reader	cr_NHL_R158 OIC Office
CL.NHL.01 Admin Building	Synergis	MR50.NHL.132 [RDU.NHL.05]	DC.NHL.132	Door sensor	cr_NHL_R132 Office Behind Receptionist
CL.NHL.01 Admin Building	Synergis	MR50.NHL.131 [RDU.NHL.06]	RX.NHL.131	Request to exit	cr_NHL_R131 Stairwell Entrance by Maint Wing
CL.NHL.01 Admin Building	Synergis	MR52.NHL.149 [RDU.NHL.16]	EL.NHL.149	Door lock	cr_NHL_R149 Admin Garage 'A' into Building
CL.NHL.01 Admin Building	Synergis	MR50.NHL.131 [RDU.NHL.06]	EL.NHL.131	Door lock	cr_NHL_R131 Stairwell Entrance by Maint Wing
CL.NHL.01 Admin Building	Synergis	MR50.NHL.227 [RDU.NHL.14]	CR.NHL.227	Reader	cr_NHL_R227 Executive Wing From Stairwell
CL.NHL.01 Admin Building	Synergis	MR52.NHL.135_136 [RDU.NHL..04]	DC.NHL.135	Door sensor	cr_NHL_R135 Lobby to Stairwell
CL.NHL.01 Admin Building	Synergis	EP.NHL.02 Toll Support Bridge PA	RX.NHLTSB.01	Request to exit	cr_NHLTSB_PAEnt New Hope PA Guard Shack
CL.NHL.01 Admin Building	Synergis	MR52.NHL.135_136 [RDU.NHL..04]	EL.NHL.136	Door lock	cr_NHL_R136 Main Entrance
CL.NHL.01 Admin Building	Synergis	MR50.NHL.146 [RDU.NHL.01]	CR.NHL.146	Reader	cr_NHL_R146 IT Office
CL.NHL.01 Admin Building	Synergis	MR52.NHL.135_136 [RDU.NHL..04]	CR.NHL.136	Reader	cr_NHL_R136 Main Entrance
CL.NHL.01 Admin Building	Synergis	MR52.NHL.105 [RDU.NHL.12]	EL.NHL.105	Door lock	cr_NHL_R105 Maint Garage Main Entrance
CL.NHL.01 Admin Building	Synergis	MR52.NHL.135_136 [RDU.NHL..04]	CR.NHL.135	Reader	cr_NHL_R135 Lobby to Stairwell
CL.NHL.01 Admin Building	Synergis	MR50.NHL.132 [RDU.NHL.05]	EL.NHL.132	Door lock	cr_NHL_R132 Office Behind Receptionist
CL.NHL.01 Admin Building	Synergis	MR50.NHL.132 [RDU.NHL.05]	CR.NHL.132	Reader	cr_NHL_R132 Office Behind Receptionist
CL.NHL.01 Admin Building	Synergis	MR50.NHL.154 [RDU.NHL.01]	RX.NHL.154	Request to exit	cr_NHL_R154 Side Entrace by Admin Garage
CL.NHL.01 Admin Building	Synergis	MR50.NHL.146 [RDU.NHL.01]	EL.NHL.146	Door lock	cr_NHL_R146 IT Office
CL.NHL.01 Admin Building	Synergis	MR50.NHL.134 [RDU.NHL.07]	CR.NHL.134	Reader	cr_NHL_R134 Maint Hall From Lobby Ent
CL.NHL.01 Admin Building	Synergis	MR50.NHL.158 [RDU.NHL.09]	EL.NHL.158	Door lock	cr_NHL_R158 OIC Office
CL.NHL.01 Admin Building	Synergis	MR52.NHL.205 [RDU.NHL.15]	EL.NHL.205	Door lock	cr_NHL_R205 IDF Closet
CL.NHL.01 Admin Building	Synergis	MR52.NHL.205 [RDU.NHL.15]	DC.NHL.205	Door sensor	cr_NHL_R205 IDF Closet
CL.NHL.01 Admin Building	Synergis	MR50.NHL.CASHLOCKER [RDU.NHL.08]	CR.NHL.CASHLOCKER	Reader	cr_NHL_CASHLOCKER NHL Cash Fund Area Cash Locker
CL.NHL.01 Admin Building	Synergis	MR50.NHL.CASHLOCKER [RDU.NHL.08]	EL.NHL.CASHLOCKER	Door lock	cr_NHL_CASHLOCKER NHL Cash Fund Area Cash Locker
CL.NHL.01 Admin Building	Synergis	MR52.NHL.222 [RDU.NHL.13]	CR.NHL.222	Reader	cr_NHL_R222 Exec Wing Main Ent
CL.NHL.01 Admin Building	Synergis	MR52.NHL.147 [RDU.NHL.02]	RX.NHL.147	Request to exit	cr_NHL_R147 MDF Room
CL.NHL.01 Admin Building	Synergis	MR50.NHL.154 [RDU.NHL.01]	DC.NHL.154	Door sensor	cr_NHL_R154 Side Entrace by Admin Garage
CL.NHL.01 Admin Building	Synergis	MR52.NHL.222 [RDU.NHL.13]	DRB.NHL.222 Door Release Button	Remote release	cr_NHL_R222 Exec Wing Main Ent
CL.NHL.01 Admin Building	Synergis	MR52.NHL.155 [RDU.NHL.17]	EL.NHL.155	Door lock	cr_NHL_R155 Admin Garage 'B' into Building
CL.NHL.01 Admin Building	Synergis	MR50.NHL.124 [RDU.NHL.08]	DC.NHL.124	Door sensor	cr_NHL_R124 NHL124 Cash Fund area
CL.NHL.01 Admin Building	Synergis	MR52.NHL.135_136 [RDU.NHL..04]	RX.NHL.135	Request to exit	cr_NHL_R135 Lobby to Stairwell

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

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Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.NHL.01 Admin Building	Synergis	MR50.NHL.LOCKBOX [RDU.NHL.10]	DC.NHL.LOCKBOX	Door sensor	cr_NHL_LOCKBOX Key Lock Box Toll Office
CL.NHL.01 Admin Building	Synergis	EP.NHL.03 Toll Support Bridge NJ	RX.NHLTSB.02	Request to exit	cr_NHLTSB_NJEnt New Hope NJ Guard Shack
CL.NHL.01 Admin Building	Synergis	MR50.NHL.138 [RDU.NHL.03]	CR.NHL.138	Reader	cr_NHL_R138 IT Hall Ent
CL.NHL.01 Admin Building	Synergis	MR50.NHL.154 [RDU.NHL.01]	CR.NHL.154	Reader	cr_NHL_R154 Side Entrace by Admin Garage
CL.NHL.01 Admin Building	Synergis	MR50.NHL.125 [RDU.NHL.07]	RX.NHL.125	Request to exit	cr_NHL_R125 Banking
CL.NHL.01 Admin Building	Synergis	MR50.NHL.158 [RDU.NHL.09]	DC.NHL.158	Door sensor	cr_NHL_R158 OIC Office
CL.NHL.01 Admin Building	Synergis	MR50.NHL.138 [RDU.NHL.03]	RX.NHL.138	Request to exit	cr_NHL_R138 IT Hall Ent
CL.NHL.01 Admin Building	Synergis	MR50.NHL.LOCKBOX [RDU.NHL.10]	EL.NHL.LOCKBOX	Door lock	cr_NHL_LOCKBOX Key Lock Box Toll Office
CL.NHL.01 Admin Building	Synergis	MR50.NHL.157 [RDU.NHL.09]	CR.NHL.157	Reader	cr_NHL_R157 Toll Tunnel
CL.NHL.01 Admin Building	Synergis	MR50.NHL.131 [RDU.NHL.06]	DC.NHL.131	Door sensor	cr_NHL_R131 Stairwell Entrance by Maint Wing
CL.NHL.01 Admin Building	Synergis	MR52.NHL.105 [RDU.NHL.12]	RX.NHL.105	Request to exit	cr_NHL_R105 Maint Garage Main Entrance
CL.NHL.01 Admin Building	Synergis	EP.NHL.02 Toll Support Bridge PA	CR.NHLTSB.01	Reader	cr_NHLTSB_PAEnt New Hope PA Guard Shack
CL.NHL.01 Admin Building	Synergis	MR52.NHL.205 [RDU.NHL.15]	RX.NHL.205	Request to exit	cr_NHL_R205 IDF Closet
CL.NHL.01 Admin Building	Synergis	MR50.NHL.138 [RDU.NHL.03]	EL.NHL.138	Door lock	cr_NHL_R138 IT Hall Ent
CL.NHL.01 Admin Building	Synergis	MR52.NHL.205 [RDU.NHL.15]	CR.NHL.205	Reader	cr_NHL_R205 IDF Closet
CL.NHL.01 Admin Building	Synergis	MR52.NHL.155 [RDU.NHL.17]	CR.NHL.155	Reader	cr_NHL_R155 Admin Garage 'B' into Building
CL.NHL.01 Admin Building	Synergis	MR50.NHL.131 [RDU.NHL.06]	CR.NHL.131	Reader	cr_NHL_R131 Stairwell Entrance by Maint Wing
CL.NHL.01 Admin Building	Synergis	MR52.NHL.222 [RDU.NHL.13]	EL.NHL.222	Door lock	cr_NHL_R222 Exec Wing Main Ent
CL.NHL.01 Admin Building	Synergis	MR50.NHL.146 [RDU.NHL.01]	DC.NHL.146	Door sensor	cr_NHL_R146 IT Office
CL.NHL.01 Admin Building	Synergis	MR52.NHL.105 [RDU.NHL.12]	CR.NHL.105	Reader	cr_NHL_R105 Maint Garage Main Entrance
CL.NHL.01 Admin Building	Synergis	MR52.NHL.106 [RDU.NHL.11]	DC.NHL.106	Door sensor	cr_NHL_R106 Maint Gar to Maint Hall
CL.NHL.01 Admin Building	Synergis	MR52.NHL.135_136 [RDU.NHL..04]	DC.NHL.136	Door sensor	cr_NHL_R136 Main Entrance
CL.NHL.01 Admin Building	Synergis	MR52.NHL.147 [RDU.NHL.02]	CR.NHL.147	Reader	cr_NHL_R147 MDF Room
CL.NHL.01 Admin Building	Synergis	MR52.NHL.106 [RDU.NHL.11]	CR.NHL.106	Reader	cr_NHL_R106 Maint Gar to Maint Hall
CL.NHL.01 Admin Building	Synergis	MR50.NHL.154 [RDU.NHL.01]	EL.NHL.154	Door lock	cr_NHL_R154 Side Entrace by Admin Garage
CL.NHL.01 Admin Building	Synergis	MR52.NHL.105 [RDU.NHL.12]	DC.NHL.105	Door sensor	cr_NHL_R105 Maint Garage Main Entrance
CL.NHL.01 Admin Building	Synergis	MR50.NHL.134 [RDU.NHL.07]	DC.NHL.134	Door sensor	cr_NHL_R134 Maint Hall From Lobby Ent
CL.NHL.01 Admin Building	Synergis	MR52.NHL.155 [RDU.NHL.17]	RX.NHL.155	Request to exit	cr_NHL_R155 Admin Garage 'B' into Building
CL.NHL.01 Admin Building	Synergis	MR50.NHL.137 [RDU.NHL.03]	RX.NHL.137	Request to exit	cr_NHL_R137 Lobby Elevator
CL.NHL.01 Admin Building	Synergis	MR50.NHL.125 [RDU.NHL.07]	EL.NHL.125	Door lock	cr_NHL_R125 Banking
CL.NHL.01 Admin Building	Synergis	MR50.NHL.158 [RDU.NHL.09]	RX.NHL.158	Request to exit	cr_NHL_R158 OIC Office
CL.NHL.01 Admin Building	Synergis	MR50.NHL.157 [RDU.NHL.09]	DC.NHL.157	Door sensor	cr_NHL_R157 Toll Tunnel
CL.NHL.01 Admin Building	Synergis	EP.NHL.02 Toll Support Bridge PA	DC.NHLTSB.01	Door sensor	cr_NHLTSB_PAEnt New Hope PA Guard Shack
CL.NHL.01 Admin Building	Synergis	MR52.NHL.135_136 [RDU.NHL..04]	RX.NHL.136	Request to exit	cr_NHL_R136 Main Entrance
CL.NHL.01 Admin Building	Synergis	MR50.NHL.LOCKBOX [RDU.NHL.10]	CR.NHL.LOCKBOX	Reader	cr_NHL_LOCKBOX Key Lock Box Toll Office
CL.NHL.01 Admin Building	Synergis	MR50.NHL.124 [RDU.NHL.08]	EL.NHL.124	Door lock	cr_NHL_R124 NHL124 Cash Fund area
CL.NHL.01 Admin Building	Synergis	MR50.NHL.157 [RDU.NHL.09]	RX.NHL.157	Request to exit	cr_NHL_R157 Toll Tunnel
CL.NHL.01 Admin Building	Synergis	MR52.NHL.147 [RDU.NHL.02]	DC.NHL.147	Door sensor	cr_NHL_R147 MDF Room
CL.NHL.01 Admin Building	Synergis	MR52.NHL.222 [RDU.NHL.13]	RX.NHL.222	Request to exit	cr_NHL_R222 Exec Wing Main Ent
CL.NHL.01 Admin Building	Synergis	MR52.NHL.222 [RDU.NHL.13]	DC.NHL.222	Door sensor	cr_NHL_R222 Exec Wing Main Ent
CL.NHL.01 Admin Building	Synergis	MR50.NHL.132 [RDU.NHL.05]	RX.NHL.132	Request to exit	cr_NHL_R132 Office Behind Receptionist
CL.NHL.01 Admin Building	Synergis	MR50.NHL.124 [RDU.NHL.08]	CR.NHL.124	Reader	cr_NHL_R124 NHL124 Cash Fund area
CL.NHL.01 Admin Building	Synergis	EP.NHL.03 Toll Support Bridge NJ	CR.NHLTSB.02	Reader	cr_NHLTSB_NJEnt New Hope NJ Guard Shack
CL.PC.01 Admin Building	Synergis	MR52.PC.141_120 [RDU.PC.08]	DC.PC.120	Door sensor	cr_PC_R120 Counting

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

FOR INFORMATION PURPOSES ONLY

Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.PC.01 Admin Building	Synergis	MR50.PC.002 [RDU.PC.01]	CR.PC.002	Reader	cr_PC_R002 ESS Room
CL.PC.01 Admin Building	Synergis	MR50.PC.124 [RDU.PC.07]	RX.PC.124	Request to exit	cr_PC_R124 OIC Office
CL.PC.01 Admin Building	Synergis	MR52.PC.111 [RDU.PC.02]	CR.PC.111	Reader	cr_PC_R111 Rear Admin Entrance
CL.PC.01 Admin Building	Synergis	MR52.PC.141_120 [RDU.PC.08]	EL.PC.120	Door lock	cr_PC_R120 Counting
CL.PC.01 Admin Building	Synergis	MR50.PC.002 [RDU.PC.01]	RX.PC.002	Request to exit	cr_PC_R002 ESS Room
CL.PC.01 Admin Building	Synergis	MR52.PC.107 [RDU.PC.05]	CR.PC.107	Reader	cr_PC_R107 Maint Garage North Ent
CL.PC.01 Admin Building	Synergis	MR50.PC.112 [RDU.PC.07]	DC.PC.112	Door sensor	cr_PC_R112 Main Entrance From Toll Plaza
CL.PC.01 Admin Building	Synergis	MR50.PC.002 [RDU.PC.01]	EL.PC.002	Door lock	cr_PC_R002 ESS Room
CL.PC.01 Admin Building	Synergis	MR52.PC.111 [RDU.PC.02]	DC.PC.111	Door sensor	cr_PC_R111 Rear Admin Entrance
CL.PC.01 Admin Building	Synergis	MR50.PC.112 [RDU.PC.07]	EL.PC.112	Door lock	cr_PC_R112 Main Entrance From Toll Plaza
CL.PC.01 Admin Building	Synergis	MR52.PC.135 [RDU.PC.04]	CR.PC.135	Reader	cr_PC_R135 Vehicle Garage To Maint Office
CL.PC.01 Admin Building	Synergis	MR52.PC.141_120 [RDU.PC.08]	RX.PC.120	Request to exit	cr_PC_R120 Counting
CL.PC.01 Admin Building	Synergis	MR52.PC.101 [RDU.PC.06]	EL.PC.101	Door lock	cr_PC_R101 Maintenance Garage South Ent
CL.PC.01 Admin Building	Synergis	MR52.PC.111 [RDU.PC.02]	RX>PC.111	Request to exit	cr_PC_R111 Rear Admin Entrance
CL.PC.01 Admin Building	Synergis	MR52.PC.135 [RDU.PC.04]	RX.PC.135	Request to exit	cr_PC_R135 Vehicle Garage To Maint Office
CL.PC.01 Admin Building	Synergis	MR52.PC.132 [RDU.PC.03]	DC.PC.132	Door sensor	cr_PC_R132 Vehicle Garage to Maint Hall
CL.PC.01 Admin Building	Synergis	MR52.PC.101 [RDU.PC.06]	DC.PC.101	Door sensor	cr_PC_R101 Maintenance Garage South Ent
CL.PC.01 Admin Building	Synergis	MR52.PC.141_120 [RDU.PC.08]	CR.PC.,141	Reader	cr_PC_R141 Banking
CL.PC.01 Admin Building	Synergis	MR52.PC.141_120 [RDU.PC.08]	DC.PC.141	Door sensor	cr_PC_R141 Banking
CL.PC.01 Admin Building	Synergis	MR52.PC.101 [RDU.PC.06]	RX.PC.101	Request to exit	cr_PC_R101 Maintenance Garage South Ent
CL.PC.01 Admin Building	Synergis	MR52.PC.132 [RDU.PC.03]	RX.PC.132	Request to exit	cr_PC_R132 Vehicle Garage to Maint Hall
CL.PC.01 Admin Building	Synergis	MR52.PC.141_120 [RDU.PC.08]	RX.PC.141	Request to exit	cr_PC_R141 Banking
CL.PC.01 Admin Building	Synergis	MR52.PC.107 [RDU.PC.05]	DC.PC.107	Door sensor	cr_PC_R107 Maint Garage North Ent
CL.PC.01 Admin Building	Synergis	MR52.PC.132 [RDU.PC.03]	EL.PC.132	Door lock	cr_PC_R132 Vehicle Garage to Maint Hall
CL.PC.01 Admin Building	Synergis	MR50.PC.112 [RDU.PC.07]	RX.PC.112	Request to exit	cr_PC_R112 Main Entrance From Toll Plaza
CL.PC.01 Admin Building	Synergis	MR50.PC.124 [RDU.PC.07]	CR.PC.124	Reader	cr_PC_R124 OIC Office
CL.PC.01 Admin Building	Synergis	MR52.PC.107 [RDU.PC.05]	RX.PC.107	Request to exit	cr_PC_R107 Maint Garage North Ent
CL.PC.01 Admin Building	Synergis	MR52.PC.141_120 [RDU.PC.08]	EL.PC.141	Door lock	cr_PC_R141 Banking
CL.PC.01 Admin Building	Synergis	MR50.PC.112 [RDU.PC.07]	CR.PC.112	Reader	cr_PC_R112 Main Entrance From Toll Plaza
CL.PC.01 Admin Building	Synergis	MR52.PC.101 [RDU.PC.06]	CR.PC.101	Reader	cr_PC_R101 Maintenance Garage South Ent
CL.PC.01 Admin Building	Synergis	MR52.PC.111 [RDU.PC.02]	EL.PC.111	Door lock	cr_PC_R111 Rear Admin Entrance
CL.TM.01 Admin Building	Synergis	MR50.TM.343 [RDU.TM.14]	EL.TM.343	Door lock	cr_TM_R343 Toll Lane 02
CL.TM.01 Admin Building	Synergis	MR50.TM.343 [RDU.TM.14]	DC.TM.343	Door sensor	cr_TM_R343 Toll Lane 02
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	RX.TM.146	Request to exit	cr_TM_R146 Main Ent First Floor
CL.TM.01 Admin Building	Synergis	MR50.TM.430 [RDU.TM.16]	DC.TM.430	Door sensor	cr_TM_R430 Fourth Floor Exec Stair Tower
CL.TM.01 Admin Building	Synergis	MR50.TM.335 [RDU.TM.11]	EL.TM.335	Door lock	cr_TM_R335 OIC Office
CL.TM.01 Admin Building	Synergis	MR50.TM.CASHLOCKER [RDU.TM.11]	DC.TM.CASHLOCKER	Door sensor	cr_TM_CASHLOCKER
CL.TM.01 Admin Building	Synergis	MR50.TM.420 [RDU.TM.16]	RX.TM.420	Request to exit	cr_TM_R420 Fourth Floor Exec Office
CL.TM.01 Admin Building	Synergis	MR50.TM.337 [RDU.TM.10]	RX.TM.337	Request to exit	cr_TM_R337 Entrance From Toll
CL.TM.01 Admin Building	Synergis	MR52.TM.156 [RDU.TM.03]	CR.TM.156	Reader	cr_TM_R156 Main Hall to Stair
CL.TM.01 Admin Building	Synergis	MR50.TM.326 [RDU.TM.12]	EL.TM.326	Door lock	cr_TM_R326 Counting Room
CL.TM.01 Admin Building	Synergis	MR50.TM.338 [RDU.TM.10]	EL.TM.338	Door lock	cr_TM_R338 Entrance to Toll Tunnel
CL.TM.01 Admin Building	Synergis	MR52.TM.313_LOCKBOX [RDU.TM.09]	CR.TM.313	Reader	cr_TM_R313 Recording and Toll Servers Room
CL.TM.01 Admin Building	Synergis	MR50.TM.335 [RDU.TM.11]	DC.TM.335	Door sensor	cr_TM_R335 OIC Office

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

FOR INFORMATION PURPOSES ONLY

Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.TM.01 Admin Building	Synergis	MR52.TM.158 [RDU.TM.05]	DC.TM.158	Door sensor	cr_TM_R158 Old Tunnel Ent
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	DC.TM.151	Door sensor	cr_TM_R151 First Floor Office
CL.TM.01 Admin Building	Synergis	MR52.TM.165 [RDU.TM.02]	EL.TM.165	Door lock	cr_TM_R165 Admin Gar to Main Hall
CL.TM.01 Admin Building	Synergis	MR50.TM.201 [RDU.TM.07]	RX.TM.201	Request to exit	cr_TM_R201 Second Floor Telephone Room
CL.TM.01 Admin Building	Synergis	MR50.TM.420 [RDU.TM.16]	EL.TM.420	Door lock	cr_TM_R420 Fourth Floor Exec Office
CL.TM.01 Admin Building	Synergis	MR50.TM.326 [RDU.TM.12]	CR.TM.326	Reader	cr_TM_R326 Counting Room
CL.TM.01 Admin Building	Synergis	MR50.TM.342 [RDU.TM.14]	EL.TM.342	Door lock	cr_TM_R342 Toll Lane 01
CL.TM.01 Admin Building	Synergis	MR52.TM.323_318 [RDU.TM.08]	CR.TM.323	Reader	cr_TM_R323 Banking
CL.TM.01 Admin Building	Synergis	MR50.TM.326 [RDU.TM.12]	RX.TM.326	Request to exit	cr_TM_R326 Counting Room
CL.TM.01 Admin Building	Synergis	MR50.TM.344 [RDU.TM.15]	CR.TM.344	Reader	cr_TM_R344 Toll Lane 03
CL.TM.01 Admin Building	Synergis	MR52.TM.159 [RDU.TM.06]	EL.TM.159	Door lock	cr_TM_R159 Main Hall Ent by Reception Desk
CL.TM.01 Admin Building	Synergis	MR50.TM.430 [RDU.TM.16]	RX.TM.430	Request to exit	cr_TM_R430 Fourth Floor Exec Stair Tower
CL.TM.01 Admin Building	Synergis	MR50.TM.334 [RDU.TM.11]	EL.TM.334	Door lock	cr_TM_R334 Phone Room Third Floor
CL.TM.01 Admin Building	Synergis	MR52.TM.158 [RDU.TM.05]	EL.TM.158	Door lock	cr_TM_R158 Old Tunnel Ent
CL.TM.01 Admin Building	Synergis	MR52.TM.323_318 [RDU.TM.08]	CR.TM.318	Reader	cr_TM_R318 Server Room
CL.TM.01 Admin Building	Synergis	MR50.TM.337 [RDU.TM.10]	DC.TM.337	Door sensor	cr_TM_R337 Entrance From Toll
CL.TM.01 Admin Building	Synergis	MR52.TM.313_LOCKBOX [RDU.TM.09]	DC.TM.313	Door sensor	cr_TM_R313 Recording and Toll Servers Room
CL.TM.01 Admin Building	Synergis	MR52.TM.138 [RDU.TM.01]	EL.TM.138	Door lock	cr_TM_R138 Side Ent by Print Shop
CL.TM.01 Admin Building	Synergis	MR52.TM.313_LOCKBOX [RDU.TM.09]	DC.TM.LOCKBOX	Door sensor	cr_TM_LOCKBOX
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	CR.TM.146	Reader	cr_TM_R146 Main Ent First Floor
CL.TM.01 Admin Building	Synergis	MR50.TM.342 [RDU.TM.14]	RX.TM.342	Request to exit	cr_TM_R342 Toll Lane 01
CL.TM.01 Admin Building	Synergis	MR52.TM.310 [ACP.TM.01]	CR.TM.310	Reader	cr_TM_R310 Secretary's Office Third Floor
CL.TM.01 Admin Building	Synergis	MR52.TM.310 [ACP.TM.01]	DC.TM.310	Door sensor	cr_TM_R310 Secretary's Office Third Floor
CL.TM.01 Admin Building	Synergis	MR50.TM.335 [RDU.TM.11]	RX.TM.335	Request to exit	cr_TM_R335 OIC Office
CL.TM.01 Admin Building	Synergis	MR52.TM.158 [RDU.TM.05]	CR.TM.158	Reader	cr_TM_R158 Old Tunnel Ent
CL.TM.01 Admin Building	Synergis	MR52.TM.313_LOCKBOX [RDU.TM.09]	CR.TM.LOCKBOX	Reader	cr_TM_LOCKBOX
CL.TM.01 Admin Building	Synergis	MR50.TM.344 [RDU.TM.15]	DC.TM.344	Door sensor	cr_TM_R344 Toll Lane 03
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	EL.TM.151	Door lock	cr_TM_R151 First Floor Office
CL.TM.01 Admin Building	Synergis	MR50.TM.420 [RDU.TM.16]	DC.TM.420	Door sensor	cr_TM_R420 Fourth Floor Exec Office
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	DRB.TM.R146 Door Release	Remote release	cr_TM_R146 Main Ent First Floor
CL.TM.01 Admin Building	Synergis	MR50.TM.CASHLOCKER [RDU.TM.11]	EL.TM.CASHLOCKER	Door lock	cr_TM_CASHLOCKER
CL.TM.01 Admin Building	Synergis	MR52.TM.323_318 [RDU.TM.08]	RX.TM.323	Request to exit	cr_TM_R323 Banking
CL.TM.01 Admin Building	Synergis	MR50.TM.337 [RDU.TM.10]	CR.TM.337	Reader	cr_TM_R337 Entrance From Toll
CL.TM.01 Admin Building	Synergis	MR50.TM.343 [RDU.TM.14]	RX.TM.343	Request to exit	cr_TM_R343 Toll Lane 02
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	EL.TM.146	Door lock	cr_TM_R146 Main Ent First Floor
CL.TM.01 Admin Building	Synergis	MR50.TM.201 [RDU.TM.07]	EL.TM.201	Door lock	cr_TM_R201 Second Floor Telephone Room
CL.TM.01 Admin Building	Synergis	MR52.TM.165 [RDU.TM.02]	RX.TM.165	Request to exit	cr_TM_R165 Admin Gar to Main Hall
CL.TM.01 Admin Building	Synergis	MR52.TM.165 [RDU.TM.02]	CR.TM.165	Reader	cr_TM_R165 Admin Gar to Main Hall
CL.TM.01 Admin Building	Synergis	MR50.TM.314 [RDU.TM.13]	DC.TM.314	Door sensor	cr_TM_R314 IT Office
CL.TM.01 Admin Building	Synergis	MR50.TM.334 [RDU.TM.11]	DC.TM.334	Door sensor	cr_TM_R334 Phone Room Third Floor
CL.TM.01 Admin Building	Synergis	MR52.TM.310 [ACP.TM.01]	RX.TM.310	Request to exit	cr_TM_R310 Secretary's Office Third Floor
CL.TM.01 Admin Building	Synergis	MR50.TM.343 [RDU.TM.14]	CR.TM.343	Reader	cr_TM_R343 Toll Lane 02
CL.TM.01 Admin Building	Synergis	MR50.TM.201 [RDU.TM.07]	CR.TM.201	Reader	cr_TM_R201 Second Floor Telephone Room
CL.TM.01 Admin Building	Synergis	MR52.TM.138 [RDU.TM.01]	CR.TM.138	Reader	cr_TM_R138 Side Ent by Print Shop

TAB 10 Exhibit A - ACS Readers, Inputs and Outputs

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Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.TM.01 Admin Building	Synergis	MR50.TM.430 [RDU.TM.16]	EL.TM.430	Door lock	cr_TM_R430 Fourth Floor Exec Stair Tower
CL.TM.01 Admin Building	Synergis	MR52.TM.156 [RDU.TM.03]	RX.TM.156	Request to exit	cr_TM_R156 Main Hall to Stair
CL.TM.01 Admin Building	Synergis	MR50.TM.344 [RDU.TM.15]	RX.TM.344	Request to exit	cr_TM_R344 Toll Lane 03
CL.TM.01 Admin Building	Synergis	MR52.TM.323_318 [RDU.TM.08]	DC.TM.323	Door sensor	cr_TM_R323 Banking
CL.TM.01 Admin Building	Synergis	MR50.TM.338 [RDU.TM.10]	DC.TM.338	Door sensor	cr_TM_R338 Entrance to Toll Tunnel
CL.TM.01 Admin Building	Synergis	MR50.TM.314 [RDU.TM.13]	CR.TM.314	Reader	cr_TM_R314 IT Office
CL.TM.01 Admin Building	Synergis	MR50.TM.342 [RDU.TM.14]	DC.TM.342	Door sensor	cr_TM_R342 Toll Lane 01
CL.TM.01 Admin Building	Synergis	MR50.TM.CASHLOCKER [RDU.TM.11]	CR.TM.CASHLOCKER	Reader	cr_TM_CASHLOCKER
CL.TM.01 Admin Building	Synergis	MR52.TM.159 [RDU.TM.06]	RX.TM.159	Request to exit	cr_TM_R159 Main Hall Ent by Reception Desk
CL.TM.01 Admin Building	Synergis	MR52.TM.159 [RDU.TM.06]	DC.TM.159	Door sensor	cr_TM_R159 Main Hall Ent by Reception Desk
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	CR.TM.151	Reader	cr_TM_R151 First Floor Office
CL.TM.01 Admin Building	Synergis	MR50.TM.338 [RDU.TM.10]	RX.TM.338	Request to exit	cr_TM_R338 Entrance to Toll Tunnel
CL.TM.01 Admin Building	Synergis	MR52.TM.313_LOCKBOX [RDU.TM.09]	RX.TM.313	Request to exit	cr_TM_R313 Recording and Toll Servers Room
CL.TM.01 Admin Building	Synergis	MR52.TM.158 [RDU.TM.05]	RX.TM.158	Request to exit	cr_TM_R158 Old Tunnel Ent
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	DC.TM.146	Door sensor	cr_TM_R146 Main Ent First Floor
CL.TM.01 Admin Building	Synergis	MR52.TM.313_LOCKBOX [RDU.TM.09]	EL.TM.313	Door lock	cr_TM_R313 Recording and Toll Servers Room
CL.TM.01 Admin Building	Synergis	MR52.TM.310 [ACP.TM.01]	EL.TM.310	Door lock	cr_TM_R310 Secretary's Office Third Floor
CL.TM.01 Admin Building	Synergis	MR52.TM.151_146 [RDU.TM.04]	RX.TM.151	Request to exit	cr_TM_R151 First Floor Office
CL.TM.01 Admin Building	Synergis	MR50.TM.420 [RDU.TM.16]	CR.TM.420	Reader	cr_TM_R420 Fourth Floor Exec Office
CL.TM.01 Admin Building	Synergis	MR50.TM.338 [RDU.TM.10]	CR.TM.338	Reader	cr_TM_R338 Entrance to Toll Tunnel
CL.TM.01 Admin Building	Synergis	MR50.TM.326 [RDU.TM.12]	DC.TM.326	Door sensor	cr_TM_R326 Counting Room
CL.TM.01 Admin Building	Synergis	MR52.TM.156 [RDU.TM.03]	EL.TM.156	Door lock	cr_TM_R156 Main Hall to Stair
CL.TM.01 Admin Building	Synergis	MR50.TM.314 [RDU.TM.13]	EL.TM.314	Door lock	cr_TM_R314 IT Office
CL.TM.01 Admin Building	Synergis	MR50.TM.314 [RDU.TM.13]	RX.TM.314	Request to exit	cr_TM_R314 IT Office
CL.TM.01 Admin Building	Synergis	MR52.TM.159 [RDU.TM.06]	CR.TM.159	Reader	cr_TM_R159 Main Hall Ent by Reception Desk
CL.TM.01 Admin Building	Synergis	MR52.TM.323_318 [RDU.TM.08]	RX.TM.318	Request to exit	cr_TM_R318 Server Room
CL.TM.02 Maintenance	Synergis	MR52.TM.R104M [RDU.TM.25]	EL.TM.104M	Door lock	cr_TM_R104M Maint Gar Far Ent
CL.TM.02 Maintenance	Synergis	MR52.TM.R134SG [RDU.TM.17]	EL.TM.134SG	Door lock	cr_TM_R134SG Small Garage Rear Entry
CL.TM.02 Maintenance	Synergis	MR50.TM.R114M [RDU.TM.24]	RX.TM.114M	Request to exit	cr_TM_R114M Maint Basement/Training
CL.TM.02 Maintenance	Synergis	MR52.TM.R134SG [RDU.TM.17]	CR.TM.134SG	Reader	cr_TM_R134SG Small Garage Rear Entry
CL.TM.02 Maintenance	Synergis	MR52.TM.R121M [RDU.TM.20]	CR.TM.121M	Reader	cr_TM_R121M Carpentry Shop
CL.TM.02 Maintenance	Synergis	MR52.TM.R115M [RDU.TM.23]	EL.TM.115M	Door lock	cr_TM_R115M Break Room Door
CL.TM.02 Maintenance	Synergis	MR52.TM.R112M [RDU.TM.21]	CR.TM.112m	Reader	cr_TM_R112M Carpentry Shop
CL.TM.02 Maintenance	Synergis	MR52.TM.136SG [RDU.TM.18]	CR.TM.136SG	Reader	cr_TM_R136SG ESS Room
CL.TM.02 Maintenance	Synergis	MR52.TM.R115M [RDU.TM.23]	DC.TM.115M	Door sensor	cr_TM_R115M Break Room Door
CL.TM.02 Maintenance	Synergis	MR52.TM.R134SG [RDU.TM.17]	DC.TM.134SG	Door sensor	cr_TM_R134SG Small Garage Rear Entry
CL.TM.02 Maintenance	Synergis	MR52.TM.R119M [RDU.TM.22]	EL.TM.119M	Door lock	cr_TM_R119M Mens Locker Room
CL.TM.02 Maintenance	Synergis	MR52.TM.R109M [RDU.TM.19]	DC.TM.109M	Door sensor	cr_TM_R109M Maint Gar Truck Stor Ent
CL.TM.02 Maintenance	Synergis	MR50.TM.R114M [RDU.TM.24]	DC.TM.114M	Door sensor	cr_TM_R114M Maint Basement/Training
CL.TM.02 Maintenance	Synergis	MR50.TM.R114M [RDU.TM.24]	CR.TM.114M	Reader	cr_TM_R114M Maint Basement/Training
CL.TM.02 Maintenance	Synergis	MR52.TM.R115M [RDU.TM.23]	RX.TM.115M	Request to exit	cr_TM_R115M Break Room Door
CL.TM.02 Maintenance	Synergis	MR52.TM.R112M [RDU.TM.21]	DC.TM.112M	Door sensor	cr_TM_R112M Carpentry Shop
CL.TM.02 Maintenance	Synergis	MR52.TM.R121M [RDU.TM.20]	DC.TM.121M	Door sensor	cr_TM_R121M Carpentry Shop
CL.TM.02 Maintenance	Synergis	MR52.TM.R115M [RDU.TM.23]	CR.TM.115M	Reader	cr_TM_R115M Break Room Door

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Unit name	Unit type	Interface module	Device	Access Pt	Controlling
CL.TM.02 Maintenance	Synergis	MR52.TM.R119M [RDU.TM.22]	RX.TM.119M	Request to exit	cr_TM_R119M Mens Locker Room
CL.TM.02 Maintenance	Synergis	MR50.TM.R113M [RDU.TM.24]	EL.TM.113M	Door lock	cr_TM_R113M Uniform Storage
CL.TM.02 Maintenance	Synergis	MR52.TM.R104M [RDU.TM.25]	CR.TM.104M	Reader	cr_TM_R104M Maint Gar Far Ent
CL.TM.02 Maintenance	Synergis	MR52.TM.R119M [RDU.TM.22]	CR.TM.119M	Reader	cr_TM_R119M Mens Locker Room
CL.TM.02 Maintenance	Synergis	MR52.TM.R104M [RDU.TM.25]	RX.TM.104M	Request to exit	cr_TM_R104M Maint Gar Far Ent
CL.TM.02 Maintenance	Synergis	MR52.TM.136SG [RDU.TM.18]	EL.TM.136SG	Door lock	cr_TM_R136SG ESS Room
CL.TM.02 Maintenance	Synergis	MR50.TM.R113M [RDU.TM.24]	DC.TM.113M	Door sensor	cr_TM_R113M Uniform Storage
CL.TM.02 Maintenance	Synergis	MR52.TM.R109M [RDU.TM.19]	CR.TM.109M	Reader	cr_TM_R109M Maint Gar Truck Stor Ent
CL.TM.02 Maintenance	Synergis	MR52.TM.R112M [RDU.TM.21]	RX.TM.112M	Request to exit	cr_TM_R112M Carpentry Shop
CL.TM.02 Maintenance	Synergis	MR52.TM.R109M [RDU.TM.19]	EL.TM.105M	Door lock	cr_TM_R109M Maint Gar Truck Stor Ent
CL.TM.02 Maintenance	Synergis	MR52.TM.R112M [RDU.TM.21]	EL.TM.112M	Door lock	cr_TM_R112M Carpentry Shop
CL.TM.02 Maintenance	Synergis	MR50.TM.R113M [RDU.TM.24]	CR.TM.113M	Reader	cr_TM_R113M Uniform Storage
CL.TM.02 Maintenance	Synergis	MR50.TM.R113M [RDU.TM.24]	RX.TM.113M	Request to exit	cr_TM_R113M Uniform Storage
CL.TM.02 Maintenance	Synergis	MR52.TM.R119M [RDU.TM.22]	DC.TM.119M	Door sensor	cr_TM_R119M Mens Locker Room
CL.TM.02 Maintenance	Synergis	MR52.TM.R121M [RDU.TM.20]	RX.TM.121M	Request to exit	cr_TM_R121M Carpentry Shop
CL.TM.02 Maintenance	Synergis	MR52.TM.R109M [RDU.TM.19]	RX.TM.109M	Request to exit	cr_TM_R109M Maint Gar Truck Stor Ent

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
78-104 - Banking Rm Entrance	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
78-105 - Employee Toll Entrance	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
78-106 - Depository Camera	I78 TB	Bosch	NIN-50051-A3	Remote	4	Continuous	Fixed	Always	
	I78 TB	Bosch	NIN-50051-A3	Live/Recording/Low resolution/High resolution	60	Continuous	Fixed	Always	
78-107 - Cash Counting Room/Banking Entrance	I78 TB	Bosch	NIN-50051-A3	Live/Recording/Low resolution/High resolution	60	Continuous	Fixed	Always	
	I78 TB	Bosch	NIN-50051-A3	Remote	4	Continuous	Fixed	Always	
78-200 - Lobby Entrance	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
78-201 - DRJTBC Lobby Entrance	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
78-202 Second Floor Vault	I78 TB	Bosch	NIN-50051-A3	Live/Recording/Remote/Low resolution/High resolution	60	Continuous	Fixed	Always	
78M01 - Maintenance Garage Salt Shed	I78 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
78M02 - Maintenance Garage Salt Shed & Brine Tanks	I78 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
78M03.1 - Maintenance Garage Front 1	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
78M03.2 - Maintenance Garage Front 2	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
78M03.3 - Maintenance Garage Front 3	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
78M03.4- Maintenance Garage Front 4	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
78M04 - Maintenance Garage South East Corner Salt Shed PTZ	I78 TB	Bosch	MIC-7230-x5	Recording/High resolution	4	Continuous	PTZ	Always	
	I78 TB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	5	Continuous	PTZ	Always	
78M05 - Maintenance Garage North East Corner PTZ	I78 TB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	5	Continuous	PTZ	Always	
	I78 TB	Bosch	MIC-7230-x5	Recording/High resolution	4	Continuous	PTZ	Always	
78M07 - Maintenance Garage Rear Fixed	I78 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
78M08 - Maintenance Garage Rear Tank	I78 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	1	Continuous	Fixed	Always	
78M09 - Maintenance Garage Rear Tank	I78 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
78M10 - Maintenance Garage North West Corner PTZ	I78 TB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	5	Continuous	PTZ	Always	
	I78 TB	Bosch	MIC-7230-x5	Recording/High resolution	4	Continuous	PTZ	Always	
78M11 - Maintenance Garage West Side Fixed	I78 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	1	Continuous	Fixed	Always	
78M12 - Maintenance Garage South West Corner PTZ	I78 TB	Bosch	MIC-7230-x5	Recording/High resolution	4	Continuous	PTZ	Always	
	I78 TB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	5	Continuous	PTZ	Always	
78M13.1 - Maintenance Garage Gas Pump	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
78M13.2 - Maintenance Garage Gas Pump	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
78M13.3 - Maintenance Garage Gas Pump	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
78M13.4 - Maintenance Garage Gas Pump	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
78M14 - Maintenance Garage Light Pole PTZ	I78 TB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	5	Continuous	PTZ	Always	
	I78 TB	Bosch	MIC-7230-x5	Recording/High resolution	4	Continuous	PTZ	Always	
78M15.1 - Maintenance Garage Light Pole Camera Facing Garage	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
78M15.2 - Maintenance Garage Light Pole Camera Facing Garage	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
78M15.3 - Maintenance Garage Light Pole Camera Facing Garage	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
78M15.4 - Maintenance Garage Light Pole Camera Facing Garage	I78 TB	Arecont	AV12586PM	Recording/High resolution	100	Continuous	Fixed	Always	
	I78 TB	Arecont	AV12586PM	Live/Remote/Low resolution	100	Continuous	Fixed	Always	
78-RF02 - Toll Plaza and West Property	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
78-RF05 - Rear of Maintenance	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
78-TN01 - Tunnel Access South Side	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	To be replaced
	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	To be replaced
7801 - Toll Plaza West Approach and Property	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	To be replaced
	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	To be replaced
7802 - MP 76.4 WB Toll Plaza Entrance	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
7803 - MP 76.4 WB RT 2016 Underpass	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
7804 - MP 76.4 WB Toll Plaza Approach	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	To be replaced
	I78 TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	To be replaced
7805 - MP 77.1 I78 Curve @ Rt 611	I78 TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	I78 TB	Bosch	MIC-7230-x5	Recording/High resolution	2	Continuous	PTZ	Always	
	I78 TB	Bosch	MIC-7230-x5	Live/Low resolution	4	Continuous	PTZ	Always	
7807 - RT 611 Underpass Looking North	I78_611	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
7807 - Rt 611 Underpass Looking North	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
7808 - I78 Admin Building Toll Canopy	178 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	1	Continuous	Fixed	Always	
7808 - MP 0.1 EB Traffic on Bridge	178 611	N/A	N/A	N/A	N/A	N/A	Ghost	N/A	
	178 611	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
7809 - MP 0.1 WB Traffic on Bridge	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	178 611	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
7810 - NJ Bank South Side and Piers	178 611	N/A	N/A	N/A	N/A	N/A	Ghost	N/A	
	178 611	Axis	AXIS M7016	Remote	N/A	Continuous	Fixed	Always	
	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
7811 - PA Piers and Canal	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	178 611	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
7812 - NJ Bank North Side and Piers	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
7813 - Downstream and Bridge Traffic	178 611	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	178 611	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
7814 - MP 0.4 WB Upstream and Bridge Traffic	178 611	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	60	Continuous	PTZ	Always	
7815 - MP 0.1 EB PA Bank South Side and Piers	178 611	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
7816 - NJ to PA Bank North Side and Piers	178 611	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
7817 - MP 0.1 WB NJ Piers and Access	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	178 611	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
7818 - MP 0.4 NJ Approach Bridge Traffic	178 611	DVTel	CP-4221-201	Remote	N/A	Continuous	PTZ	Always	
	178 611	DVTel	CP-4221-201	Live/Recording/Low resolution/High resolution	6	Continuous	PTZ	Always	
7819 - MP 2.3 East Bound 78	178 611	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
7820 - Springtown Rd Underpass	178 611	DVTel	CF-4221-00	Recording/High resolution	6	Continuous	Fixed	Always	
	178 611	DVTel	CF-4221-00	Live/Remote/Low resolution	N/A	Continuous	Fixed	Always	
7821 - MP 3.8 WB Traffic	178 611	Pelco	D6230	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
7822 - Rt 22 Underpass Looking South	178 611	DVTel	CF-4221-00	Live/Recording/Remote/Low resolution/High resolution	3	Continuous	Fixed	Always	
7823 - MP 76.1 WB Toll Plaza and West Property	178 TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	To be replaced
	178 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	To be replaced
7824 - Rear of Building Public Parking	178 TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	178 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
7825 - ESS Comm Cabinet @ RT 611	178 611	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	178 611	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
New PTZ on Sign Gantry WB PA MM 1.0	178 TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	To Install
New PTZ I78 EB at Toll MM 76.2	178 TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	To Install
New PTZ I78 EB at Toll MM 76.1	178 TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	To Install
CBS01 - PA Approach PTZ	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Recording/High resolution	Continuous	Continuous	PTZ	Always	
	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	Continuous	Continuous	PTZ	Always	
CBS02 - PA Canal Overpass and Stairwell	Centre Bridge - Stockton TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
CBS02A - PA Canal Overpass and Stairwell	Centre Bridge - Stockton TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
CBS03 - PA Side Dedicated View of Bridge Piers and NJ Bank North	Centre Bridge - Stockton TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
CBS04 - PA Side Dedicated view of Bridge Piers of NJ Bank South	Centre Bridge - Stockton TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
CBS05 - Traffic on Bridge Looking East	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Recording/High resolution	Continuous	Continuous	PTZ	Always	
	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	Continuous	Continuous	PTZ	Always	
CBS06 - Upstream PTZ	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Recording/High resolution	Continuous	Continuous	PTZ	Always	
	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	Continuous	Continuous	PTZ	Always	
CBS07 - Downstream PTZ	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	Continuous	Continuous	PTZ	Always	
	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Recording/High resolution	Continuous	Continuous	PTZ	Always	
CBS08 - Traffic Looking West	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Recording/High resolution	Continuous	Continuous	PTZ	Always	
	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	Continuous	Continuous	PTZ	Always	
CBS09 - NJ Piers PA Bank South	Centre Bridge - Stockton TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
CBS10 - NJ Approach	Centre Bridge - Stockton TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
CBS11 - NJ Piers and PA Bank North	Centre Bridge - Stockton TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
CBS13 - Upstream	Centre Bridge - Stockton TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
CBS14 -	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Live/Remote/Low resolution	Continuous	Continuous	PTZ	Always	
	Centre Bridge - Stockton TSB	Bosch	MIC-7230-x5	Recording/High resolution	Continuous	Continuous	PTZ	Always	
DG001 - Telecom Room	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
DG01 - PA Side Approach, Plaza & Exit PTZ-Mounted on Canopy between 4th and 5th Toll Booth	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG02 - Admin and Maint Parking Storage Shed PTZ	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	

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DG02 - Admin and Maint Parking, Storage Shed PTZ	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG03 - Entrance to Plaza - Pole WB20	Delaware Water Gap TB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
DG04 - PA Piers and Train Station	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
DG05 - PA to NJ View of Piers & NJ Bank	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
DG06 - 1st Traffic Camera Viewing East - Pole E/W 6	Delaware Water Gap TB	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG07 - Traffic/Downstream PTZ Closest to NJ-Pole E/W 13	Delaware Water Gap TB	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG08 - Traffic/Upstream PTZ Closest to Plaza - PoleE/W 6	Delaware Water Gap TB	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG09 - Wireless-Traffic PA to NJ Pole E20	Delaware Water Gap TB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
DG10 - NJ to PA View of Piers Upstream	Delaware Water Gap TB	GENETEC	EN-204	Live/Recording/Low resolution/High resolution	40	Continuous	Fixed	Always	
	Delaware Water Gap TB	GENETEC	EN-204	Remote	8	Continuous	Fixed	Always	
DG11 - NJ to PA View of Piers Downstream	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
DG12 - NJ River Road Underpass	Delaware Water Gap TB	GENETEC	EN-204	Live/Recording/Low resolution/High resolution	40	Continuous	Fixed	Always	
	Delaware Water Gap TB	GENETEC	EN-204	Remote	8	Continuous	Fixed	Always	
DG13 - Wireless-NJ Approach PTZ-MP.5 Pole EB29	Delaware Water Gap TB	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG14 - Traffic Viewing West Toward Plaza Pole E/W 8	Delaware Water Gap TB	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG15 - Wireless-Traffic NJ to PA	Delaware Water Gap TB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
DG16 - Traffic PA to NJ	Delaware Water Gap TB	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG17 - Toll Approach PTZ	Delaware Water Gap TB	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG18 - NJ Last Pole	Delaware Water Gap TB	Bosch	MIC-7230-Px4	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG19 - PA Side Exit	Delaware Water Gap TB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
DG101 - Main Lobby	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
DG103 - Banking Room	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
DG104 - Cash Counting Room	Delaware Water Gap TB	Bosch	NIN-50051-A3	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
DG111 - Entrance to Plaza Ticket Office & Tunnel	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
DG133 - Delaware Ave-Admin & Maint Bldg. PTZ on East	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
DG-RF01 - Toll Plaza and Front of Facility	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
DG-RF02 Rear of Maint Bldg. East Corner Looking West	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
DG-RF03 - Maintenance	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
DG-RF04 - Maintenance	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
DG-RF05 - Maintenance	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
DG-TN01 - Near Admin. Bldg. 80	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
DG-TN02 - Ticket Office Exit	Delaware Water Gap TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Delaware Water Gap TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
EP01 - Bank St Underpass Looking North	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
EP02 - Ped Underpass Looking North	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
EP03 - Ped Underpass Looking South	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
EP04 - 3rd St Underpass Looking North	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
EP05 - PA Side Approach	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	PTZ	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
EP06B - RT. 611 Underpass PTZ	Easton - Phillipsburg TB	Bosch	AutoDome 800 HD	Live/Recording/Low resolution/High resolution	60	Continuous	PTZ	Always	
	Easton - Phillipsburg TB	Bosch	AutoDome 800 HD	Remote	N/A	Continuous	PTZ	Always	
EP07 - Traffic Cam Looking East	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
EP08 - PA to NJ North Piers	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	PTZ	Always	
EP10 - NJ to PA South Piers	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
EP11 - Traffic Cam Looking West	Easton - Phillipsburg TB	Axis	AXIS Q1615 Mk II	Recording/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS Q1615 Mk II	Live/Remote/Low resolution	5	Continuous	Fixed	Always	
EP12 - NJ Side Viaduct and Storage Yard	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
EP13 - NJ Broad St Underpass Looking North	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
EP13 - NJ Bridge Street/Cross Looking North	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
EP14 - Toll Plaza Exit	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
EP15 - Toll Plaza and Ramps	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
EP16 - Ped Walkway South	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
EP17 - Ped Walkway North Side1	Easton - Phillipsburg TB	Axis	AXIS P7214	Remote	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS P7214	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
EP18 - Toll Plaza Roof Camera	Easton - Phillipsburg TB	Bosch	AUTODOME 7000 HD	Remote	N/A	Continuous	PTZ	Always	
	Easton - Phillipsburg TB	Bosch	AUTODOME 7000 HD	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
EP112 - Maint Bldg. Garage Doors	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
EP118 - Storage Area and Parking	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
EP301 - Banking Room Entrance	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
EP302 - 3rd Floor Lobby	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
EP304 - IT Rm Entrance	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
EP-RF01 - Toll Plaza - Front of Admin - Exit Ramp	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
EP-RF02 - Rear of Bldg. - Parking - Exit Ramp	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
EP-TN01 - Toll Tunnel	Easton - Phillipsburg TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Easton - Phillipsburg TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
LT01 - PA Side Approach	Lower Trenton TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
LT02 - Traffic Cam PA to NJ North Bridge	Lower Trenton TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
LT03 - TM Piers, NJ and Pier 1	Lower Trenton TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Lower Trenton TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
LT04 - Upstream	Lower Trenton TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
LT05 - TM Piers 2 and 3	Lower Trenton TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Lower Trenton TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
LT06 - RT29 SB Facing South	Lower Trenton TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Lower Trenton TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
LT07 - TM Piers 4,5,6 and PA	Lower Trenton TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Lower Trenton TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
LT08 - PA Side Ped Walkway Upstream	Lower Trenton TSB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution	5	Continuous	Fixed	Always	
	Lower Trenton TSB	Sony	SNC-VM772R	Remote	5	Continuous	Fixed	Always	
LT09 - RT29NB SB Facing North	Lower Trenton TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Lower Trenton TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
LT10 - Traffic Cam NJ to PA South Bridge	Lower Trenton TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
LT11 - RT29 NB Facing South	Lower Trenton TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Lower Trenton TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
LT12 - NJ Approach and TR1 South Ramp	Lower Trenton TSB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Lower Trenton TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
LT13 - Traffic Cam PA to NJ South Bridge	Lower Trenton TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
LT14 - Traffic Cam NJ to PA North Bridge	Lower Trenton TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	60	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
LT15 - Walkway	Lower Trenton TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Lower Trenton TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
MM01 - PA Approach and Plaza Exit-Pole B2	Milford - Montague TB	Bosch	MIC-7230-x5	Recording	4	Continuous	PTZ	Always	
	Milford - Montague TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Milford - Montague TB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
MM02 - Toll Plaza Exit - Pole A2	Milford - Montague TB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
MM03 - PA to NJ North Side Piers	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
MM04 - PA to NJ South Side Pier	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
MM04 - PA to NJ South Side Piers	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
MM05 - PA Under Bridge PTZ 4th X Brace	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
MM06 - Traffic PA to NJ Pole C7	Milford - Montague TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Milford - Montague TB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Milford - Montague TB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
MM07 - Toll Plaza Ent NJ-PA Pole C4	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
MM08 - Upstream downstream PTZ/Traffic NJ-PA-Pole C9	Milford - Montague TB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Milford - Montague TB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Milford - Montague TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
MM09 - Traffic PA to NJ Pole C9	Milford - Montague TB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Milford - Montague TB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
MM10 - Bridge Ent/Exit PA Side	Milford - Montague TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
MM11 - NJ to Pa North Side Piers	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
MM12 - NJ to PA SS Piers-Pole C11	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
MM13 - NJ Approach/Traffic NJ-PA Pole C13	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
MM14 - NJ Under Bridge 4th X Beam	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
MM101 - Lobby Entrance	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
MM103 - IT Rm and Vault	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
MM103A - Banking Room	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
MM111 - NE Rear Corner of Admin Bldg.	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
MM114 - Parking Lot/Gas Pump- MW Side of Detached Garage	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
MM116 - North Property Shed-MT SW Corner of Detached Garage	Milford - Montague TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Milford - Montague TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
NHL01 - PA Approach PTZ	New Hope - Lambertville Archiver	DVTEL	CP-4221-201	Live/Recording/High resolution	8	Continuous	PTZ	Always	To be replaced
	New Hope - Lambertville Archiver	DVTEL	CP-4221-201	Remote/Low resolution	N/A	Continuous	PTZ	Always	To be replaced
NHL02 - Rt 32 Underpass Looking North	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL03 - Toll Plaza Entrance	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL04 - Traffic PTZ	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
NHL05 - NJ to PA South Side Piers	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL06 - Traffic Up-Downstream	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
NHL07 - PA to NJ North Side Piers	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL08 - Traffic Looking West - SB	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
NHL09 - NJ Side - Canal Path	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL10 - NJ Approach and Ramps	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
NHL11 - Rt 29 Underpass Looking South	New Hope - Lambertville Archiver	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution	5	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Sony	SNC-VM772R	Remote	5	Continuous	Fixed	Always	
NHL12 - PA Canal Path	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHL13 - NJ Storage Yard	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
NHL14 - NJ Storage Yard	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL15 - Toll Plaza Exit and PA to NJ Traffic	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHL16 - 202 NB Plaza PA to NJ	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
NHL17 - PA PTZ @ Toll Plaza PA to NJ	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
NHL18 - Salt Shed and Rear Parking	New Hope - Lambertville Archiver	Bosch	MIC-7230-xS	Recording	2	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-xS	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Bosch	MIC-7230-xS	Remote	N/A	Continuous	PTZ	Always	
New NHL19 202 EB PA	New Hope - Lambertville Archiver	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution		Continuous	PTZ	Always	To Install
New NHL 20 202 WB PA	New Hope - Lambertville Archiver	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution		Continuous	PTZ	Always	To Install
NHL101 - Front of Maint Bldg. & Parking	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHL108 - Main Entrance	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL109 - Main Lobby	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHL110 - IT Room	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHL127 - Toll Tunnel Exterior Door	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL201 - 2nd Floor Lobby	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL201A - 2nd Floor Lobby	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHL301 - 3rd Floor Elev and Boardroom	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHLTN01 - Tunnel	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHLTN02 - Banking Room	New Hope - Lambertville Archiver	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville Archiver	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHLTN03 - Cash Counting	New Hope - Lambertville Archiver	Pelco	IME119	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHS01 - PA Side Approach	New Hope - Lambertville TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHS02 - PA to NJ North Side Piers	New Hope - Lambertville TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHS03 - Traffic Camera PA to NJ	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
NHS04 - Downstream	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
NHS05 - Traffic Camera NJ to PA	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
NHS06 - NJ to PA South Side Piers	New Hope - Lambertville TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHS07 - NJ Approach	New Hope - Lambertville TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHS08 - NJ to PA North Side Piers	New Hope - Lambertville TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	New Hope - Lambertville TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHS09 - PA to NJ South Side Piers	New Hope - Lambertville TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	New Hope - Lambertville TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHS10 - PA Side Walkway	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
NHS11 - PA Approach	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	New Hope - Lambertville TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
NHST01 - PA Side mounted on a pole viewing toll supported bridge approach	Northampton Street TSB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Northampton Street TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
NHST02 - NHST Piers	Northampton Street TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Northampton Street TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
NHST03 - Traffic Looking East	Northampton Street TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
NHST04 - PA Side Walkway Upstream	Northampton Street TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
NHST05 - Traffic Looking West	Northampton Street TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
NHST06 - Viewing NHST Piers	Northampton Street TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Northampton Street TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
NHST07 - NJ Side Walkway Upstream	Northampton Street TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
NHST08 - NJ Side Viewing Ped Path	Northampton Street TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Northampton Street TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHST09 - NJ Side Area Under Bridge	Northampton Street TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Northampton Street TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
NHST10 - Pedestrian Walkway Downstream	Northampton Street TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Northampton Street TSB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution	3	Continuous	Fixed	Always	
NHST11 - PA Approach	Northampton Street TSB	Sony	SNC-VM772R	Remote	5	Continuous	Fixed	Always	
	Northampton Street TSB	Sony	SNC-VM772R	Remote/Low resolution	4	Continuous	Fixed	Always	
NHST12 - NJ Approach	Northampton Street TSB	Sony	SNC-VM772R	Live/Recording/High resolution	5	Continuous	Fixed	Always	
	Northampton Street TSB	Sony	SNC-VM772R	Remote	3	Continuous	Fixed	Always	
NHST13 - PA Crosswalk	Northampton Street TSB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution	5	Continuous	Fixed	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
NHST14 - NJ Side Walkway Downstream	Northampton Street TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Northampton Street TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	VG5-7230-EPC4	Remote	4	Continuous	PTZ	Always	
PC PED-1	Portland - Columbia TB	Bosch	VG5-7230-EPC4	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	NIN-733-VxxIP	Remote	4	Continuous	Fixed	Always	
PC PED-2	Portland - Columbia TB	Bosch	NIN-733-VxxIP	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Bosch	NIN-733-VxxIP	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
PC PED-3	Portland - Columbia TB	Bosch	NIN-733-VxxIP	Remote	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Bosch	NIN-733-VxxIP	Remote	4	Continuous	Fixed	Always	
PC PED-4	Portland - Columbia TB	Bosch	VG5-7230-EPC4	Remote	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	VG5-7230-EPC4	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
PC PED-5	Portland - Columbia TB	Bosch	NDN-733V0x-IP	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Bosch	NDN-733V0x-IP	Remote	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
PC01 - PA Maint Yard and Admin Bldg.	Portland - Columbia TB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS Q6044-E	Remote	4	Continuous	PTZ	Always	
PC02 - PA Approach, Toll Plaza, Admin Bldg.	Portland - Columbia TB	Axis	AXIS Q6044-E	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
PC03 - Toll Plaza Entrance	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
PC04 - Rt 611 Underpass Looking North	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
PC05 - PA Side Piers 1 and 2	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
PC06 - PA Side Spans 2 and 3	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
PC07 - Traffic Looking East PA to NJ	Portland - Columbia TB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
PC08 - Downstream PTZ	Portland - Columbia TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
PC09 - Upstream PTZ	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Live/Low resolution	4	Continuous	PTZ	Always	
PC10 - Traffic Looking West NJ to PA	Portland - Columbia TB	Bosch	MIC-7230-x5	Recording/High resolution	2	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
PC11 - Washington St Underpass Looking North	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
PC12 - NJ Approach and Rt 46	Portland - Columbia TB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Portland - Columbia TB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
PC13 - Rt 46 Underpass Looking North	Portland - Columbia TB	Bosch	MIC-7230-x5	Remote/Low resolution	N/A	Continuous	Fixed	Always	
	Portland - Columbia TB	DVTEL	CM-4251-11-I	Live/Recording/High resolution	64	Continuous	Fixed	Always	
	Portland - Columbia TB	DVTEL	CM-4251-11-I	Live/Recording	4	Continuous	Fixed	Always	
PC14 - Toll Plaza Exit	Portland - Columbia TB	Axis	AXIS M7016	Remote/Low resolution	N/A	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
PC15 - NJ to PA North Side Piers	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
PC16 - PA to NJ South Side Piers	Portland - Columbia TB	Sony	SNC-VM772R	Live/Recording/High resolution	5	Continuous	Fixed	Always	
	Portland - Columbia TB	Sony	SNC-VM772R	Remote/Low resolution	5	Continuous	Fixed	Always	
PC17 - Toll Crosswalk	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
PC-101 - Admin Bldg. Lobby	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
PC-102 - Banking Room	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
PC-102 - Dining Room	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
PC-RF01 - Toll Plaza Front	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
PC-RF02 - Garage Doors and Parking Area	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
PC-RF03 - Rear SW Corner of Facility	Portland - Columbia TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Portland - Columbia TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
RB01 - PA Approach PTZ	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	Continuous	Continuous	PTZ	Always	
	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Recording	Continuous	Continuous	PTZ	Always	
	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Remote	Continuous	Continuous	PTZ	Always	
RB02 - PA to NJ North Piers	Riverton - Belvidere TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
RB03 - PA to NJ South Piers new	Riverton - Belvidere TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
RB04 - Traffic Looking East PA to NJ	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	Continuous	Continuous	PTZ	Always	
	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Recording	Continuous	Continuous	PTZ	Always	
	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Remote	Continuous	Continuous	PTZ	Always	
RB05 - Upstream PTZ	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	PTZ	Always	
RB06 - Downstream PTZ	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	PTZ	Always	
	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Remote	Continuous	Continuous	PTZ	Always	
	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Recording	Continuous	Continuous	PTZ	Always	
RB07 - Traffic Looking West NJ to PA	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	Continuous	Continuous	PTZ	Always	
	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Recording	Continuous	Continuous	PTZ	Always	
	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Remote	Continuous	Continuous	PTZ	Always	
RB08 - NJ Approach and Shelter	Riverton - Belvidere TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
RB09 - NJ to PA South Piers	Riverton - Belvidere TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
RB10 - NJ to PA North Piers	Riverton - Belvidere TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
RB11 - PA North MIC PTZ	Riverton - Belvidere TSB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	PTZ	Always	
RB12 - Upstream	Riverton - Belvidere TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	Continuous	Continuous	Fixed	Always	
RV01 - PA Approach	Riegelsville TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
RV02 - PA to NJ North Side Piers	Riegelsville TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	3	Continuous	Fixed	Always	
RV03 - PA to NJ South Side Piers	Riegelsville TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
RV04 - Traffic Looking East to PA to NJ	Riegelsville TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
RV05 - Upstream PTZ	Riegelsville TSB	Bosch	MIC-7230-x5	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
RV06 - Downstream PTZ	Riegelsville TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
RV07 - Traffic Looking West to NJ to PA	Riegelsville TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
RV08 - NJ to PA North Side Piers	Riegelsville TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
RV09 - NJ to PA South Side Piers	Riegelsville TSB	Sony	SNC-VM772R	Remote	5	Continuous	Fixed	Always	
	Riegelsville TSB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution	5	Continuous	Fixed	Always	
RV10 - NJ Side Approach PTZ	Riegelsville TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Riegelsville TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	2	Continuous	PTZ	Always	
RV11 - PA Side Approach	Riegelsville TSB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution	5	Continuous	Fixed	Always	
	Riegelsville TSB	Sony	SNC-VM772R	Remote	5	Continuous	Fixed	Always	
RV12 - Upstream	Riegelsville TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
SF01 - Taylorsville Rd Overpass	Scudder Falls TSB	DVTel	CF-4221-00	Live/Recording/Remote/Low resolution/High resolution	10	Continuous	Fixed	Always	
SF02 - PA On Ramp Approach	Scudder Falls TSB	DVTel	CP-4221-201	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
SF03 - Canal Structure Looking South	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
SF04 - Canal Structure Looking North	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
SF05 - RT 32 Underpass	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
SF06 - View Of Bridge Piers And NJ Bank - North Side	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
SF07 - View Of Bridge Piers And NJ Bank - South Side	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
SF08 - Upstream	Scudder Falls TSB	FLIR Systems	CP-4221-201	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	PTZ	Always	
SF09 - Downstream	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	
SF10 - Bridge Piers And PA Bank - North Side	Scudder Falls TSB	Verint	DVT-9540DW	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
SF11 - Piers And PA Bank - South Side	Scudder Falls TSB	Verint	DVT-9540DW	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
SF12 - View of RT 29 Underpass	Scudder Falls TSB	DVTel	CF-4221-00	Remote/Low resolution	N/A	Continuous	Fixed	Always	
SF12 - View of RT 29 Underpass	Scudder Falls TSB	DVTel	CF-4221-00	Live/Recording/High resolution	6	Continuous	Fixed	Always	
SF13 - PTZ Viewing Bridge And Approach	Scudder Falls TSB	FLIR Systems	CP-4221-201	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always	

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
SF14 - View Of RT 32 Underpass To Capture Area Under Span 1	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM01 - PA Ave Underpass Looking North	Trenton - Morrisville TB	DVTel	CF-4221-00	Remote	N/A	Continuous	Fixed	Always	
	Trenton - Morrisville TB	DVTel	CF-4221-00	Live/Recording/Low resolution/High resolution	64	Continuous	Fixed	Always	
TM02 - PA Side Toll Plaza Exit	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	To be replaced
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	To be replaced
TM03 - Toll Plaza Exit	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	To be replaced
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	To be replaced
TM04 - Delmorr Ave Underpass South	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM05 - Delmorr Ave South at TM Span	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM06 - LT Bridge Spans 1 and 2	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM07 - Downstream	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
TM08 - LT Bridge Spans 3 & 4	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
TM09 - SB RT29 Underpass Looking North	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM10 - NB RT29 Underpass Looking North	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	To be replaced
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	To be replaced
TM11 - RT1 On Ramp Looking South	Trenton - Morrisville TB	DVTel	CF-3211-00	Remote	N/A	Continuous	Fixed	Always	To be replaced
	Trenton - Morrisville TB	DVTel	CF-3211-00	Live/Recording/Low resolution/High resolution	5	Continuous	Fixed	Always	To be replaced
TM12 - WM Trent Place Underpass Looking North	Trenton - Morrisville TB	Verint	DVT-9540DW	Remote	4	Continuous	Fixed	Always	To be replaced
	Trenton - Morrisville TB	Verint	DVT-9540DW	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	To be replaced
TM12 - WM Trent Place Underpass Looking North(old)	Trenton - Morrisville TB	Verint	DVT-9540DW	Remote	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Verint	DVT-9540DW	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM14 - Toll Plaza Entrance	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
New TM13 - RT 1 NB	Trenton - Morrisville TB	Bosch	MIC-7230-x5	Live/Recording/Low resolution/High resolution		Continuous	PTZ	Always	To Install
TM15 - Traffic PA to NJ/Plaza Entrance	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
TM16 - Northeast Side of Admin Bldg.	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
TM17 - Toll Plaza - Parking - Main Entrance	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
TM18 - Traffic Looking PA to NJ	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
TM19 - Bridge Traffic - NJ to PA	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	To be replaced
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	To be replaced
TM20 - Traffic Rt 1 SB on Ramp	Trenton - Morrisville TB	FLIR Systems	CP-4221-201	Remote/Low resolution	N/A	Continuous	PTZ	Always	To be replaced
	Trenton - Morrisville TB	FLIR Systems	CP-4221-201	Live/Recording/High resolution	4	Continuous	PTZ	Always	To be replaced
TM21 - WM Trent Underpass Looking South	Trenton - Morrisville TB	Verint	DVT-9540DW	Remote	4	Continuous	Fixed	Always	To be replaced
	Trenton - Morrisville TB	Verint	DVT-9540DW	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	To be replaced
TM22 - Cash Counting Rm	Trenton - Morrisville TB	Pelco	IME119	Remote	5	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Pelco	IME119	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM23 - Cash Counting Rm	Trenton - Morrisville TB	Pelco	IME119	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Pelco	IME119	Remote	5	Continuous	Fixed	Always	
New TM24 RT 1 NB at Broad Street Overpass	Trenton - Morrisville TB	Bosch	MIC-7230-x5	Live/Recording/Low resolution/High resolution		Continuous	PTZ	Always	To Install
New TM25 PA Ave Underpass Looking South	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution		Continuous	Fixed	Always	To Install
New TM26 RT1 On Ramp Looking North	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution		Continuous	Fixed	Always	To Install
New TM27 Bridge Traffic - NJ to PA	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution		Continuous	Fixed	Always	To Install
New TM28 RT 1 SB at TM13	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution		Continuous	Fixed	Always	To Install
New TM29 RT 1 NB Broad street On Ramp	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution		Continuous	Fixed	Always	To Install
TM101 - Receptionist Entrance A	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
TM102 - Toll Tunnel North to South	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM111 - Receptionist Corridor A	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM122 - Wood Ave and Maint Garage	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
TM129 - Washington Street Underpass	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
TM131 - Alley Behind Maint Bldg.	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
TM132 - Small Garage and Maint Compound	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
TM301 - Recording and IT Room Door	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
TM305 - Front and Tunnel Entrance	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	

TAB 10 Exhibit A - Camera Details FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
TM303 - Front and Tunnel Entrance	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
TM306 - Banking Room and Corridor East to West	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
TM307 - Toll Personnel Entrance - SP East to West	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
UBE01 - PA Side Approach PTZ	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
UBE02 - PA to NJ North Side Piers	Upper Black Eddy - Milford TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UBE03 - PA to NJ South Side Piers	Upper Black Eddy - Milford TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UBE04 - Traffic Looking West NJ to PA	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
UBE05 - Upstream PTZ	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
UBE06 - Downstream PTZ	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
UBE07 - Traffic Looking East PA to NJ	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
UBE08 - NJ to PA South Piers	Upper Black Eddy - Milford TSB	Sony	SNC-VM772R	Remote	2	Continuous	Fixed	Always	
	Upper Black Eddy - Milford TSB	Sony	SNC-VM772R	Live/Recording/Low resolution/High resolution	5	Continuous	Fixed	Always	
UBE09 - NJ to PA North Side Piers	Upper Black Eddy - Milford TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UBE10 - NJ Side Approach PTZ	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
UBE11 - Upstream	Upper Black Eddy - Milford TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UBE12 - Walkway	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Upper Black Eddy - Milford TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
UF01 - PA Approach PTZ	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
UF02 - PA to NJ North Side Piers	Uhlerstown - Frenchtown TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UF03 - PA to NJ South Side Piers	Uhlerstown - Frenchtown TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UF04 - Traffic Looking East PTZ	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Live/Low resolution	4	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Recording/High resolution	2	Continuous	PTZ	Always	
UF05 - Upstream PTZ	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
UF06 - Downstream PTZ	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Recording/High resolution	2	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Live/Low resolution	4	Continuous	PTZ	Always	
UF07 - Traffic Looking West	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
UF08 - NJ to PA North Side Piers	Uhlerstown - Frenchtown TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UF09 - NJ to PA South Side Piers	Uhlerstown - Frenchtown TSB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UF10 - NJ Approach PTZ	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Remote	N/A	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Recording	2	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
UF11 - Upstream	Uhlerstown - Frenchtown TSB	Sony	SNC-VB770	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	Fixed	Always	
UF12 - Walkway	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Live/Recording/High resolution	2	Continuous	PTZ	Always	
	Uhlerstown - Frenchtown TSB	Bosch	MIC-7230-x5	Remote/Low resolution	N/A	Continuous	PTZ	Always	
WC01 - PA Approach	Washington Crossing TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
	Washington Crossing TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
WC02 - PA to NJ North Piers	Washington Crossing TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Washington Crossing TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
WC03 - PA to NJ South Piers	Washington Crossing TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Washington Crossing TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Washington Crossing TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
WC04 - Traffic looking East PA to NJ	Washington Crossing TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Washington Crossing TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Washington Crossing TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
WC05 - Upstream	Washington Crossing TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Washington Crossing TSB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
WC06 - Downstream	Washington Crossing TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Washington Crossing TSB	Bosch	MIC-7230-Px4	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	

TAB 10 Exhibit A - Camera Details									
FOR INFORMATION PURPOSES ONLY									
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule	To be Installed/Replaced by Sept 30, 2018
WC07 - Traffic looking West NJ to PA	Washington Crossing TSB	Bosch	MIC-7230-Px4	Remote	N/A	Continuous	PTZ	Always	
	Washington Crossing TSB	Bosch	MIC-7230-Px4	Recording	2	Continuous	PTZ	Always	
	Washington Crossing TSB	Bosch	MIC-7230-Px4	Live/Low resolution/High resolution	4	Continuous	PTZ	Always	
WC08 - NJ to PA North Piers	Washington Crossing TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Washington Crossing TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
WC09 - NJ Approach	Washington Crossing TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	PTZ	Always	
	Washington Crossing TSB	Axis	AXIS M7016	Remote	4	Continuous	PTZ	Always	
WC10 - NJ to PA South Piers	Washington Crossing TSB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	4	Continuous	Fixed	Always	
	Washington Crossing TSB	Axis	AXIS M7016	Remote	4	Continuous	Fixed	Always	
WC11 - PA Approach From NJ	Washington Crossing TSB	Sony	SNC-VM772R	Live/Recording/High resolution	5	Continuous	Fixed	Always	
	Washington Crossing TSB	Sony	SNC-VM772R	Remote/Low resolution	5	Continuous	Fixed	Always	

TAB 10 Exhibit A - Cameras to be Replaced by Sept. 30, 2018

FOR INFORMATION PURPOSES ONLY

Camera	Owner	Manufacturer	Product type	Stream usage	Recording mode	Type	Streaming schedule	OLD - NEW
7801 - Toll Plaza West Approach and Property	I78 TB	Axis	AXIS M7016	Remote	Continuous	PTZ	Always	OLD
	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	Continuous	PTZ	Always	
7801 - Toll Plaza West Approach and Property	I78 TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	PTZ	Always	NEW
7804 - MP 76.4 WB Toll Plaza Approach	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	Continuous	PTZ	Always	OLD
	I78 TB	Axis	AXIS M7016	Remote	Continuous	PTZ	Always	
7804 - MP 76.4 WB Toll Plaza Approach	I78 TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	PTZ	Always	NEW
7823 - MP 76.1 WB Toll Plaza and West Property	I78 TB	Axis	AXIS M7016	Remote	Continuous	Fixed	Always	OLD
	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	Continuous	Fixed	Always	
7823 - MP 76.1 WB Toll Plaza and West Property	I78 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Fixed	Always	NEW
78-TN01 - Tunnel Access South Side	I78 TB	Axis	AXIS M7016	Remote	Continuous	Fixed	Always	OLD
	I78 TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	Continuous	Fixed	Always	
78-TN01 - Tunnel Access South Side	I78 TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Fixed	Always	NEW
TM02 - PA Side Toll Plaza Exit	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	Continuous	PTZ	Always	OLD
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	Continuous	PTZ	Always	
TM02 - PA Side Toll Plaza Exit	Trenton - Morrisville TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	PTZ	Always	NEW
TM03 - Toll Plaza Exit	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	Continuous	Fixed	Always	OLD
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	Continuous	Fixed	Always	
TM03 - Toll Plaza Exit	Trenton - Morrisville TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	PTZ	Always	NEW
TM19 - Bridge Traffic - NJ to PA	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	Continuous	PTZ	Always	OLD
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	Continuous	PTZ	Always	
TM19 - Bridge Traffic - NJ to PA	Trenton - Morrisville TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	PTZ	Always	NEW
TM20 - Traffic Rt 1 SB on Ramp	Trenton - Morrisville TB	FLIR Systems	CP-4221-201	Remote/Low resolution	Continuous	PTZ	Always	OLD
	Trenton - Morrisville TB	FLIR Systems	CP-4221-201	Live/Recording/High resolution	Continuous	PTZ	Always	
TM20 - Traffic Rt 1 SB on Ramp	Trenton - Morrisville TB	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	PTZ	Always	NEW
TM10 - NB RT29 Underpass Looking North	Trenton - Morrisville TB	Axis	AXIS M7016	Live/Recording/Low resolution/High resolution	Continuous	Fixed	Always	OLD
	Trenton - Morrisville TB	Axis	AXIS M7016	Remote	Continuous	Fixed	Always	
TM10 - NB RT29 Underpass Looking North	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Fixed	Always	NEW
TM11 - RT1 On Ramp Looking South	Trenton - Morrisville TB	DVTel	CF-3211-00	Remote	Continuous	Fixed	Always	OLD
	Trenton - Morrisville TB	DVTel	CF-3211-00	Live/Recording/Low resolution/High resolution	Continuous	Fixed	Always	
TM11 - RT1 On Ramp Looking South	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Fixed	Always	NEW
TM12 - WM Trent Place Underpass Looking North	Trenton - Morrisville TB	Verint	DVT-9540DW	Remote	Continuous	Fixed	Always	OLD
	Trenton - Morrisville TB	Verint	DVT-9540DW	Live/Recording/Low resolution/High resolution	Continuous	Fixed	Always	
TM12 - WM Trent Place Underpass Looking North	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Fixed	Always	NEW
TM21 - WM Trent Underpass Looking South	Trenton - Morrisville TB	Verint	DVT-9540DW	Remote	Continuous	Fixed	Always	OLD
	Trenton - Morrisville TB	Verint	DVT-9540DW	Live/Recording/Low resolution/High resolution	Continuous	Fixed	Always	
TM21 - WM Trent Underpass Looking South	Trenton - Morrisville TB	Sony	SNC-VM772R	Live/Recording/Remote/Low resolution/High resolution	Continuous	Fixed	Always	NEW
NHL01 - PA Approach PTZ	New Hope - Lambertville Archiver	DVTel	CP-4221-201	Live/Recording/High resolution	Continuous	PTZ	Always	OLD
	New Hope - Lambertville Archiver	DVTel	CP-4221-201	Remote/Low resolution	Continuous	PTZ	Always	
NHL01 - PA Approach PTZ	New Hope - Lambertville Archiver	Bosch	MIC-7230-x5	Live/Recording/Remote/Low resolution/High resolution	Continuous	PTZ	Always	NEW

TAB 10 Exhibit A - Cameras to be Decommissioned

FOR INFORMATION PURPOSES ONLY

Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule
!AXIS DEMO PTZ	178 TB	Axis	AXIS Q6055-E	Live/Remote/Low resolution	5	Continuous	PTZ	Always
	178 TB	Axis	AXIS Q6055-E	Recording/High resolution	4	Continuous	PTZ	Always
.AXIS DEMA CAMERA 1	178 TB	Axis	AXIS Q6000-E Mk II	Recording/High resolution	4	Continuous	Fixed	Always
	178 TB	Axis	AXIS Q6000-E Mk II	Live/Remote/Low resolution	5	Continuous	Fixed	Always
.AXIS DEMA CAMERA 2	178 TB	Axis	AXIS Q6000-E Mk II	Live/Remote/Low resolution	5	Continuous	Fixed	Always
	178 TB	Axis	AXIS Q6000-E Mk II	Recording/High resolution	4	Continuous	Fixed	Always
.AXIS DEMA CAMERA 3	178 TB	Axis	AXIS Q6000-E Mk II	Live/Remote/Low resolution	5	Continuous	Fixed	Always
	178 TB	Axis	AXIS Q6000-E Mk II	Recording/High resolution	4	Continuous	Fixed	Always
.AXIS DEMA CAMERA 4	178 TB	Axis	AXIS Q6000-E Mk II	Live/Remote/Low resolution	5	Continuous	Fixed	Always
	178 TB	Axis	AXIS Q6000-E Mk II	Recording/High resolution	4	Continuous	Fixed	Always
.AXIS DEMO CAMERA	178 TB	Axis	AXIS Q6000-E Mk II	Recording/High resolution	4	Continuous	Fixed	Always
	178 TB	Axis	AXIS Q6000-E Mk II	Live/Remote/Low resolution	5	Continuous	Fixed	Always

Note: These cameras do not need to be maintained by the ESS Contractor.

TAB 10 Exhibit A - Network Switches

FOR INFORMATION PURPOSES ONLY

Site	Current Equipment	Ports Available	Fiber Optic Connection on Ports	Fiber Type
DWGTB	WS-C2960G-24TC-L	1	22 & 24	62.5/125 Multimode - 1000BaseLX SFP-10/100/1000BaseTX
I78 TB	WS-C2960G-24TC-L	3	24	62.5/125 Multimode - 1000BaseLX SFP-10/100/1000BaseTX
EPTB	WS-C2960G-24TC-L	8	23 & 24	62.5/125 Multimode - 1000BaseLX SFP-10/100/1000BaseTX
TMTB	WS-C2960G-24TC-L	5	N/A	N/A
PCTB	WS-C2960G-24TC-L	5	N/A	N/A
NHLTB	WS-C2960G-48TC-L	2	N/A	N/A
MMTB	WS-C2960G-24TC-L	4	N/A	N/A
WCTSB	WS-C2960G-24TC-L	8	N/A	N/A
CBSTSB	WS-C2960G-24TC-L	6	N/A	N/A
UTFTSB	WS-C2960G-24TC-L	9	24	62.5/125 Multimode - 1000BaseLX SFP-10/100/1000BaseTX
UBETSB	WS-C2960G-24TC-L	8	23 & 24	62.5/125 Multimode - 1000BaseLX SFP-10/100/1000BaseTX
SFTSB	WS-C2960G-24TC-L	8	N/A	N/A
NHLTSB	WS-C2960G-24TC-L	7	N/A	N/A
RVTB	WS-C2960G-24TC-L	9	23	62.5/125 Multimode - 1000BaseLX SFP-10/100/1000BaseTX
I78611TB	WS-C2960G-24TC-L	8	N/A	N/A
NHStSB	WS-C2960G-24TC-L	12	22 & 23	62.5/125 Multimode - 1000BaseLX SFP-10/100/1000BaseTX
CSTSB	WS-C2960G-24TC-L	5	N/A	N/A
LTTSB	WS-C2960G-24TC-L	5	N/A	N/A
RBTSB	WS-C2960G-24TC-L	8	N/A	N/A
PCC	WS-C2960G-24TC-L	4	N/A	N/A

TAB 10 Exhibit A - Rack Mount UPSs

FOR INFORMATION PURPOSES ONLY

Site	Current Equipment	Current Power	Backup Power Time
DWGTB	PW9125	5KVA	5min
I78 TB	PW9125	5KVA	5min
EPTB	PW9125	5KVA	5min
TMTB	PW9125	5KVA	5min
PCTB	PW9125	5KVA	5min
NHLTB	PW9125	5KVA	5min
MMTB	PW9125	5KVA	5min
WCTSB	PW9125	5KVA	5min
CBSTSB	PW9125	5KVA	5min
UTFTTSB	PW9125	5KVA	5min
UBETSB	PW9125	5KVA	5min
SFTSB	PW9125	5KVA	5min
NHLTSB	PW9125	5KVA	5min
RVTSB	PW9125	5KVA	5min
I78611TB	PW9125	5KVA	5min
NHStTSB	PW9125	5KVA	5min
CSTSB	PW9125	5KVA	5min
LTTSB	PW9125	5KVA	5min
RBTSB	PW9125	5KVA	5min
PCC	PW9125	5KVA	5min

TAB 10 Exhibit A - Standalone UPSs

FOR INFORMATION PURPOSES ONLY

Site	Quantity	Current Equipment	Current Power	Backup Power Time
DWGTB	4	Back-UPS 750	750VA	5min
I78 TB	6	Back-UPS 750	750VA	5min
EPTB	3	Back-UPS 750	750VA	5min
TMTB	5	Back-UPS 750	750VA	5min
PCTB	2	Back-UPS 750	750VA	5min
NHLTB	6	Back-UPS 750	750VA	5min
MMTB	1	Back-UPS 750	750VA	5min
WCTSB	1	Back-UPS 750	750VA	5min
CBSTSB	1	Back-UPS 750	750VA	5min
UTFTTSB	1	Back-UPS 750	750VA	5min
UBETSB	1	Back-UPS 750	750VA	5min
SFTSB	0	Back-UPS 750	750VA	5min
NHLTSB	2	Back-UPS 750	750VA	5min
RVTSB	2	Back-UPS 750	750VA	5min
I78611TB	0	Back-UPS 750	750VA	5min
NHStTSB	2	Back-UPS 750	750VA	5min
CSTSB	2	Back-UPS 750	750VA	5min
LTTSB	1	Back-UPS 750	750VA	5min
RBTSB	1	Back-UPS 750	750VA	5min
PCC	3	Back-UPS 750	750VA	5min

TAB 10 Exhibit A - Solar Power

FOR INFORMATION PURPOSES ONLY

Site	Manufacturer	Model Number	Battery Quantity	Power Source	System Supported	Comments
Milford-Montague TB	SunWize	999PR22012240-G	2	Lighting Circuit	MM01 & FluidMesh Unit	
Delaware Water Gap TB	SunWize	999PR22012240-G	2	Lighting Circuit	DG09 & Firetide Unit	
Delaware Water Gap TB	SunWize	999PR22012240-G	2	Lighting Circuit	DG13,15 & Firetide Unit	
Portland-Columbia TB	SunWize	999PR22012240-G	2	Solar Panels	PC01 & FluidMesh Unit	
Portland-Columbia TB	SunWize	999PR22012240-G	2	Lighting Circuit	PC13 & FluidMesh Unit	
I-78 TB	SunWize	999PR22012240-G	2	Lighting Circuit	FluidMesh Repeater #1	
I-78 TB	SunWize	999PR66012750-B	3	Solar Panels	7805 & FluidMesh Repeater #2	
I-78 / Rt 611 TB	SunWize	999PR66012750-B	3	Solar Panels	7818 & FluidMesh Repeater #3	
I-78 / Rt 611 TB	SunWize	999PR22012240-G	2	Solar Panels	FluidMesh Repeater #4	
I-78 / Rt 611 TB	SunWize	999PR22012240-G	2	Solar Panels	FluidMesh Repeater #5	
I-78 / Rt 611 TB	SunWize	999PR22012240-G	2	Lighting Circuit	7819 & FluidMesh Repeater #6	
I-78 / Rt 611 TB	SunWize	999PR22012240-G	2	Solar Panels	FluidMesh Repeater #8	
I-78 / Rt 611 TB	SunWize	999PR22012240-G	2	Solar Panels	FluidMesh Repeater #9	
I-78 / Rt 611 TB	SunWize	999PR66012750-B	3	Solar Panels	7821 & FluidMesh Repeater #10	
I-78 / Rt 611 TB	SunWize	999PR66012750-B	3	Solar Panels	7822 & FluidMesh Repeater #11	
Centre Bridge-Stockton TSB	SunWize	999PR22012240-G	2	Lighting Circuit	CBS01 & Firetide Unit	
New Hope-Lambertville TB	SunWize	999PR66012750-B	3	Solar Panels	NHL01 & FluidMesh Unit	To be removed by Sept 30, 2018
New Hope-Lambertville TB	SunWize	999PR22012240-G	2	Lighting Circuit	NHL11 & FluidMesh Unit	
Scudder Falls TSB	SunWize	999PR66012750-B	3	Lighting Circuit	SF01 & FluidMesh Unit	
Scudder Falls TSB	SunWize	999PR22012240-G	2	Lighting Circuit	SF08,13 & FluidMesh Unit	
Scudder Falls TSB	SunWize	999PR22012240-G	2	Lighting Circuit	SF08,13 & FluidMesh Unit	
Scudder Falls TSB	SunWize	999PR22012240-G	2	Lighting Circuit	SF08,13 & FluidMesh Unit	
Scudder Falls TSB	SunWize	999PR22012240-G	2	Lighting Circuit	SF08,13 & FluidMesh Unit	
Trenton-Morrisville TB	SunWize	999PR22012240-G	2	Lighting Circuit	TM01 & FluidMesh Unit	
Trenton-Morrisville TB	SunWize	999PR22012240-G	2	Lighting Circuit	TM11 & FluidMesh Unit	
Trenton-Morrisville TB	SunWize	999PR22012240-G	2	Lighting Circuit	TM12,21 & FluidMesh Unit	
Trenton-Morrisville TB	SunWize	999PR22012240-G	2	Lighting Circuit	TM18 & FluidMesh Unit	
Trenton-Morrisville TB	SunWize	999PR22012240-G	2	Lighting Circuit	TM20 & FluidMesh Unit	
Trenton-Morrisville TB	SunWize	999PR22012240-G	2	Lighting Circuit	TM13 & FluidMesh Unit	

TAB 10 Exhibit A - Wireless Communications

FOR INFORMATION PURPOSES ONLY

Site	Manufacturer	Model Number	Supported System	Wireless Collection Point / Repeater	Antennas	Comments
Milford-Montague TB	FluidMesh	FM2200	MM01	Repeater	1	
Milford-Montague TB	FluidMesh	FM2200	MM01	Wireless Collection Point	1	
Delaware Water Gap TB	Firetide	Hotport 7020	DG9,13,15	Wireless Collection Point	1	
Delaware Water Gap TB	Firetide	Hotport 7020	DG9,13,15	Repeater	2	
Delaware Water Gap TB	Firetide	Hotport 7020	DG9,13,15	Repeater	1	
Portland-Columbia TB	FluidMesh	FM2200	PC01	Repeater	1	
Portland-Columbia TB	FluidMesh	FM2200	PC01	Wireless Collection Point	1	
Portland-Columbia TB	FluidMesh	FM2200	PC13	Repeater	1	
Portland-Columbia TB	FluidMesh	FM2200	PC13	Wireless Collection Point	1	
Portland-Columbia Pedestrian Bridge	Proxim	Quick Bridge 8250	PCPED 1,2,3,4,5	Wireless Collection Point	1	
Portland-Columbia Pedestrian Bridge	Proxim	Quick Bridge 8250	PCPED 1,2,3,4,5	Wireless Collection Point	1	
Easton-Phillipsburg TB	Proxim	Quick Bridge 8250	EP1,2,3,4	Wireless Collection Point	1	
Easton-Phillipsburg TB	Proxim	Quick Bridge 8250	EP1,2,3,4	Wireless Collection Point	1	
I-78 TB	FluidMesh	FM2200	7805	Wireless Collection Point	1	
I-78 TB	FluidMesh	FM2200	7805	Repeater	2	
I-78 TB	FluidMesh	FM2200	7805	Repeater	2	
I-78 TB	FluidMesh	FM2200	7805	Wireless Collection Point	1	
I-78 / Rt 611 TB	FluidMesh	FM3101	7818,19,20,21,22	Wireless Collection Point	1	
I-78 / Rt 611 TB	FluidMesh	FM2200	7818,19,20,21,22	Repeater	2	
I-78 / Rt 611 TB	FluidMesh	FM2200	7818,19,20,21,22	Repeater	2	
I-78 / Rt 611 TB	FluidMesh	FM2200	7818,19,20,21,22	Repeater	2	
I-78 / Rt 611 TB	FluidMesh	FM2200	7818,19,20,21,22	Repeater	2	
I-78 / Rt 611 TB	FluidMesh	FM2200	7818,19,20,21,22	Repeater	2	
I-78 / Rt 611 TB	FluidMesh	FM2200	7818,19,20,21,22	Repeater	2	
I-78 / Rt 611 TB	FluidMesh	FM2200	7818,19,20,21,22	Repeater	2	
I-78 / Rt 611 TB	FluidMesh	FM2200	7818,19,20,21,22	Repeater	1	
Centre Bridge-Stockton TSB	Firetide	Hotport 7020	CBS01	Repeater	1	
Centre Bridge-Stockton TSB	Firetide	Hotport 7020	CBS01	Wireless Collection Point	1	
New Hope-Lambertville TB	FluidMesh	FM2200	NHL01	Wireless Collection Point	1	To be removed by Sept. 30, 2018
New Hope-Lambertville TB	FluidMesh	FM2200	NHL01	Repeater	1	To be removed by Sept. 30, 2018
New Hope-Lambertville TB	FluidMesh	FM2200	NHL11	Wireless Collection Point	1	
New Hope-Lambertville TB	FluidMesh	FM2200	NHL11	Repeater	1	
Scudder Falls TSB	FluidMesh	FM2200	SF01	Wireless Collection Point	1	
Scudder Falls TSB	FluidMesh	FM2200	SF01	Repeater	1	
Scudder Falls TSB	FluidMesh	FM2200	SF08,13	Wireless Collection Point	1	
Scudder Falls TSB	FluidMesh	FM2200	SF08,13	Repeater	1	
Scudder Falls TSB	Firetide	Hotport 7010	SFPR1,2,3	Wireless Collection Point	1	Scudder Falls Park and Ride
Scudder Falls TSB	Firetide	Hotport 7010	SFPR1,2,3	Repeater	1	Scudder Falls Park and Ride
Trenton-Morrisville TB	FluidMesh	FM2200	TM01	Repeater	1	
Trenton-Morrisville TB	FluidMesh	FM2200	TM01	Wireless Collection Point	1	
Trenton-Morrisville TB	FluidMesh	FM2200	TM11,12,13,18,20,21	Wireless Collection Point	1	
Trenton-Morrisville TB	FluidMesh	FM2200	TM11,12,13,18,20,21	Repeater	2	
Trenton-Morrisville TB	FluidMesh	FM2200	TM11,12,13,18,20,21	Repeater	2	
Trenton-Morrisville TB	FluidMesh	FM2200	TM11,12,13,18,20,21	Repeater	2	
Trenton-Morrisville TB	FluidMesh	FM2200	TM11,12,13,18,20,21	Repeater	2	
Trenton-Morrisville TB	FluidMesh	FM2200	TM11,12,13,18,20,21	Repeater	1	

TAB 10 Exhibit A - Generators

FOR INFORMATION PURPOSES ONLY

Site	Generator Manufacturer	Model Number Generator	Size	ATS Manufacturer	Model Number Automatic Transfer Switch	Air Conditioner Manufacturer	Model Number A/C
Riegelsville TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Northampton Street TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
I-78 / Rt 611 TB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Riverton-Belvidere TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Upper Black Eddy-Milford TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Uhlertown-Frenchtown TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Centre Bridge-Stockton TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Washington Crossing TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Scudder Falls TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Calhoun Street TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102
Lower Trenton TSB	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102

TAB 10 Exhibit A - Workstations

FOR INFORMATION PURPOSES ONLY

Site	Model Number	Manufacturer	Existing Workstations	Workstations to be Installed	Workstations to be removed	Workstations on Sept 30, 2018
Milford-Montague TB	T3610	Dell	1	0	0	1
Delaware Water Gap TB	T3610	Dell	2	1	0	3
Portland-Columbia TB	T3610	Dell	2	0	0	2
Riverton-Belvidere TSB	T3610	Dell	1	0	0	1
Easton-Phillipsburg TB	T3610	Dell	3	0	0	3
Northampton Street TSB	T3610	Dell	2	0	0	2
I-78 TB	T3610	Dell	3	0	1	2
I-78 TB	L9K19UT#ABA	HP	3	2	0	5
Riegelsville TSB	T3610	Dell	2	0	0	2
Upper Black Eddy-Milford TSB	T3610	Dell	1	0	0	1
Uhlerstown-Frenchtown TSB	T3610	Dell	1	0	0	1
Centre Bridge-Stockton TSB	T3610	Dell	1	0	0	1
New Hope-Lambertville TB	L9K19UT#ABA	HP	1	0	0	1
New Hope-Lambertville TB	T3610	Dell	5	0	0	5
New Hope-Lambertville TSB	T3610	Dell	2	0	0	2
Washington Crossing TSB	T3610	Dell	1	0	0	1
Calhoun Street TSB	T3610	Dell	2	0	0	2
Lower Trenton TSB	T3610	Dell	1	0	0	1
Trenton-Morrisville TB	T3610	Dell	4	1	1	4
Trenton-Morrisville TB	L9K19UT#ABA	HP	0	1	0	1
Primary Control Center	L9K19UT#ABA	HP	3	0	0	3

TAB 10 Exhibit A - SERVERS AND ENCODERS

FOR INFORMATION PURPOSES ONLY

Site	Model Number	Manufacturer	Quantity
Milford Montague	Power Edge R520	Dell	1
Delaware Water Gap	Power Edge R521	Dell	1
Portland Columbia	Power Edge R522	Dell	1
Riverton Belvidere	Power Edge R523	Dell	1
Easton Phillipsburg	Power Edge R524	Dell	2
North Hampton street	Power Edge R525	Dell	1
I78 Admin	Power Edge R526	Dell	1
I78611	Power Edge R527	Dell	1
Riegelsville	Power Edge R528	Dell	1
Upper Black Eddy	Power Edge R529	Dell	1
Uhlerstown Frenchtown	Power Edge R530	Dell	1
Centre Bridge Stockton	Power Edge R531	Dell	1
New Hope TB	Power Edge R532	Dell	9
New Hope TSB	Power Edge R534	Dell	1
Washington's Crossing	Power Edge R535	Dell	1
Calhoun Street	Power Edge R536	Dell	1
Lower Trenton	Power Edge R537	Dell	1
Trenton Morrisville	Power Edge R538	Dell	1

Site	Model Number	Manufacturer	Quantity
Milford Montague	054-1004	AXIS	1
Delaware Water Gap	054-1004	AXIS	2
Portland Columbia	054-1004	AXIS	2
Riverton Belvidere	054-1004	AXIS	0
Easton Phillipsburg	054-1004	AXIS	2
North Hampton street	054-1004	AXIS	0
I78 Admin	054-1004	AXIS	1
I78611	054-1004	AXIS	1
Riegelsville	054-1004	AXIS	0
Upper Black Eddy	054-1004	AXIS	0
Uhlerstown Frenchtown	054-1004	AXIS	0
Centre Bridge Stockton	054-1004	AXIS	1
New Hope TB	054-1004	AXIS	2
New Hope TSB	054-1004	AXIS	1
Washington's Crossing	054-1004	AXIS	1
Calhoun Street	054-1004	AXIS	1
Lower Trenton	054-1004	AXIS	1
Trenton Morrisville	054-1004	AXIS	2

TAB 10 Exhibit B - Ongoing Projects to be Completed by Sept. 30, 2018

FOR INFORMATION PURPOSES ONLY

Site	Project Description	Equipment Added to System	Equipment Removed	Project Description
DWGTB	Cash Locker Installation	Reader, ACS Door Strike, ACS Request to Exit, Door Contact	N/A	This project will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the DWG Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.
DWGTB	Toll Lieutenant ESS workstation	N/A	N/A	The existing ESS Maintenance Contractor will install an existing ESS workstation in the Toll Lieutenant office
I-78 TB	I-78 PSBS AC WKS Upgrade	2 Workstations - BCDVideo High performance Workstations 2 Dell 24" LED Monitors	N/A	The existing ESS Maintenance Contractor will provide two (2) new high performance ESS workstations. One of these workstations will be installed in the ESS Director's office at the I78 administration building and one will be a spare unit.
I78 TB	Camera Upgrades Admin Building Area	5 Bosch MIC PTZ Cameras, 2 Sony 4K all in ones	2 Bosch PTZ, 2 Bosch Fixed Cameras, 2 Old Sunwise Power Systems	The existing ESS Maintenance Contractor will install/replace five (5) Bosch MIC 1080P PTZ cameras, and install two (2) new fixed cameras and two (2) new Sunwise Power Systems.
I78 TB	Cash Locker Installation	Reader, ACS Door Strike, ACS Request to Exit, Door Contact	N/A	This project will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the I-78 Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.
EPTB	Cash Locker Installation	Reader, ACS Door Strike, ACS Request to Exit, Door Contact	N/A	This project will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the EP Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.
TMTB	Camera Upgrades Admin Building Area	7 PTZ, 9 Fixed Cameras	5 Bosch PTZ, 4 Bosch Fixed Cameras, 5 Old Sunwise Power Systems	The existing ESS Maintenance Contractor will install seven (7) Bosch MIC 1080P PTZ cameras at various point at the Trenton Morrisville Bridge. They will also install nine (9) new fixed cameras and five (5) new Sunwise Power Systems.
TMTB	ESS WKS install PSBS AC	1 Workstation	N/A	The existing ESS Maintenance Contractor will install one (1) 24port ethernet switch and one (1) BCDVideo High performance workstation
PCTB	OIC Door ACS	Reader, ACS Door Strike, ACS Request to Exit, Door Contact	N/A	This project will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the PC Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.
PCTB	Cash Locker Installation	Reader, ACS Door Strike, ACS Request to Exit, Door Contact	N/A	This project will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the PC Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.
NHLTB	NHL01 permanent pwr	Conduit, Fittings, Outdoor Rated Cable	Sunwise and Wireless Equipment	The existing ESS Maintenance Contractor will bore from one of the existing lighting poles located on the off-ramp, to the grass area along roadway. They will create a trench in grass area along the right shoulder of the roadway to the existing CCTV pole, approximately 750'.
NHLTB	NHL Camera Upgrades	1 PTZ, 2 Fixed Cameras	1 Bosch PTZ	The existing ESS Maintenance Contractor will install 1 new Bosch MIC PTZ and 2 Sony 4K all in one cameas at NHL01 pole location
NHLTB	Cash Locker Installation	Reader, ACS Door Strike, ACS Request to Exit, Door Contact	N/A	This project will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the NHL Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.
MMTB	Cash Locker Installation	Reader, ACS Door Strike, ACS Request to Exit, Door Contact	N/A	This project will provide the door module and card reader necessary in order to integrate with a new key locker, which is provided by others. The new enclosure will be installed in the MM Administration building. The existing ESS Maintenance Contractor will provide the configuration and programming for the card access control equipment.
PCC	Activu Wall 48 Cameras increased to 64 cameras	N/A	N/A	The existing ESS Maintenance Contractor will increase the Activu Wall camera capabilities to 64 cameras.

TAB 10 Exhibit B - Future Project - Scudder Falls Administration Building

FOR INFORMATION PURPOSES ONLY

Cameras			
Camera	Owner	Manufacturer	Product type
SF Admin SF01	Scudder Falls Admin	TBD	TBD
SF Admin SF02	Scudder Falls Admin	TBD	TBD
SF Admin SF03	Scudder Falls Admin	TBD	TBD
SF Admin SF04	Scudder Falls Admin	TBD	TBD
SF Admin SF05	Scudder Falls Admin	TBD	TBD
SF Admin SF06	Scudder Falls Admin	TBD	TBD
SF Admin SF07	Scudder Falls Admin	TBD	TBD
SF Admin SF08	Scudder Falls Admin	TBD	TBD
SF Admin SF09	Scudder Falls Admin	TBD	TBD
SF Admin SF10	Scudder Falls Admin	TBD	TBD
SF Admin SF11	Scudder Falls Admin	TBD	TBD
SF Admin SF12	Scudder Falls Admin	TBD	TBD
SF Admin SF13	Scudder Falls Admin	TBD	TBD
SF Admin SF14	Scudder Falls Admin	TBD	TBD
SF Admin SF15	Scudder Falls Admin	TBD	TBD
SF Admin SF16	Scudder Falls Admin	TBD	TBD
SF Admin SF17	Scudder Falls Admin	TBD	TBD
SF Admin SF18	Scudder Falls Admin	TBD	TBD
SF Admin SF19	Scudder Falls Admin	TBD	TBD
SF Admin SF20	Scudder Falls Admin	TBD	TBD
SF Admin SF21	Scudder Falls Admin	TBD	TBD
SF Admin SF22	Scudder Falls Admin	TBD	TBD
SF Admin SF23	Scudder Falls Admin	TBD	TBD
SF Admin SF24	Scudder Falls Admin	TBD	TBD

ACS Equipment			
Unit name	Unit type	Device	Quantity
Admin Building CL.SFAdmin.01	Synergis	RDR	48
Admin Building CL.SFAdmin.01	Synergis	REX	48
Admin Building CL.SFAdmin.01	Synergis	DC	48
Admin Building CL.SFAdmin.01	Synergis	EL	48
Admin Building CL.SFAdmin.01	Synergis	Motion	11
Admin Building CL.SFAdmin.01	Synergis	Glass Break	9
Admin Building CL.SFAdmin.01	Synergis	Intercom Call Box	2
Admin Building CL.SFAdmin.01	Synergis	Intercom Base Station	1

Workstations and Servers			
Site	Model Number	Manufacturer	Quantity
SF Admin Building	L9K19UT#ABA	HP	TBD
SF Admin Building	TB	HP	2

TAB 10 Exhibit B - Future Project - 1799 House

FOR INFORMATION PURPOSES ONLY

Cameras			
Camera	Owner	Manufacturer	Product type
1799 SF01	Scudder Admin. Building	TBD	TBD
1799 SF02	Scudder Admin. Building	TBD	TBD
1799 SF03	Scudder Admin. Building	TBD	TBD

ACS Equipment			
Unit name	Unit type	Device	Quantity
Admin Building CL.SFAdmin.01	Synergis	RDR	2
Admin Building CL.SFAdmin.01	Synergis	REX	2
Admin Building CL.SFAdmin.01	Synergis	DC	2
Admin Building CL.SFAdmin.01	Synergis	EL	2
Admin Building CL.SFAdmin.01	Synergis	Motion	2

TAB 10 Exhibit B - Future Project - BM/AET Facility

FOR INFORMATION PURPOSES ONLY

Cameras			
Camera	Owner	Manufacturer	Product type
BMAET SF01	Scudder Falls BMAET	TBD	TBD
BMAET SF02	Scudder Falls BMAET	TBD	TBD
BMAET SF03	Scudder Falls BMAET	TBD	TBD
BMAET SF04	Scudder Falls BMAET	TBD	TBD
BMAET SF05	Scudder Falls BMAET	TBD	TBD
BMAET SF06	Scudder Falls BMAET	TBD	TBD
BMAET SF07	Scudder Falls BMAET	TBD	TBD
BMAET SF08	Scudder Falls BMAET	TBD	TBD
BMAET SF09	Scudder Falls BMAET	TBD	TBD
BMAET SF10	Scudder Falls BMAET	TBD	TBD
BMAET SF11	Scudder Falls BMAET	TBD	TBD
BMAET SF12	Scudder Falls BMAET	TBD	TBD
BMAET SF13	Scudder Falls BMAET	TBD	TBD

New ACS Cloud Link			
Unit	Unit type	Manufacturer	Product type
CL.BMAET.01 SFBMAET Building	Access control	Genetec	Synergis Cloud Link

ACS Equipment			
Unit name	Unit type	Device	Quantity
Admin Building CL.SFBMAET.01	Synergis	RDR	25
Admin Building CL.SFBMAET.01	Synergis	REX	25
Admin Building CL.SFBMAET.01	Synergis	DC	25
Admin Building CL.SFBMAET.01	Synergis	EL	25
Admin Building CL.SFBMAET.01	Synergis	Motion	8
Admin Building CL.SFBMAET.01	Synergis	Glass Break	12
Admin Building CL.SFBMAET.01	Synergis	Intercom Call Box	2
Admin Building CL.SFBMAET.01	Synergis	Intercom Base Station	3

Workstations and Servers			
Site	Model Number	Manufacturer	Quantity
SF BMAET Building	L9K19UT#ABA	HP	3
SF BMAET Building	TB	HP	2

TAB 10 Exhibit B - Future Project - SF Southbound Toll Bridge Cameras

FOR INFORMATION PURPOSES ONLY

SB Bridge & Approach Roadways				
Cameras				Quantity
Camera	Owner	Manufacturer	Product type	42
BMAET SF01	Scudder Falls BMAET	TBD	TBD	
BMAET SF02	Scudder Falls BMAET	TBD	TBD	
BMAET SF03	Scudder Falls BMAET	TBD	TBD	
BMAET SF04	Scudder Falls BMAET	TBD	TBD	
BMAET SF05	Scudder Falls BMAET	TBD	TBD	
BMAET SF06	Scudder Falls BMAET	TBD	TBD	
BMAET SF07	Scudder Falls BMAET	TBD	TBD	
BMAET SF08	Scudder Falls BMAET	TBD	TBD	
BMAET SF10	Scudder Falls BMAET	TBD	TBD	
BMAET SF11	Scudder Falls BMAET	TBD	TBD	
BMAET SF12	Scudder Falls BMAET	TBD	TBD	
BMAET SF13	Scudder Falls BMAET	TBD	TBD	
BMAET SF16	Scudder Falls BMAET	TBD	TBD	
BMAET SF17	Scudder Falls BMAET	TBD	TBD	
BMAET SF18	Scudder Falls BMAET	TBD	TBD	
BMAET SF20	Scudder Falls BMAET	TBD	TBD	
BMAET SF21	Scudder Falls BMAET	TBD	TBD	
BMAET SF22	Scudder Falls BMAET	TBD	TBD	
BMAET SF25	Scudder Falls BMAET	TBD	TBD	
BMAET SF26	Scudder Falls BMAET	TBD	TBD	
BMAET SF27	Scudder Falls BMAET	TBD	TBD	
BMAET SF28	Scudder Falls BMAET	TBD	TBD	
BMAET SF29	Scudder Falls BMAET	TBD	TBD	
BMAET SF30	Scudder Falls BMAET	TBD	TBD	
BMAET SF31	Scudder Falls BMAET	TBD	TBD	
BMAET SF37	Scudder Falls BMAET	TBD	TBD	
BMAET SF38	Scudder Falls BMAET	TBD	TBD	
BMAET SF39	Scudder Falls BMAET	TBD	TBD	
BMAET SF40	Scudder Falls BMAET	TBD	TBD	
BMAET SF41	Scudder Falls BMAET	TBD	TBD	
BMAET SF42	Scudder Falls BMAET	TBD	TBD	
BMAET SF48	Scudder Falls BMAET	TBD	TBD	
BMAET SF49	Scudder Falls BMAET	TBD	TBD	
BMAET SF50	Scudder Falls BMAET	TBD	TBD	
BMAET SF51	Scudder Falls BMAET	TBD	TBD	
BMAET SF52	Scudder Falls BMAET	TBD	TBD	
BMAET SF53	Scudder Falls BMAET	TBD	TBD	
BMAET SF58	Scudder Falls BMAET	TBD	TBD	
BMAET SF59	Scudder Falls BMAET	TBD	TBD	
BMAET SF60	Scudder Falls BMAET	TBD	TBD	
BMAET SF61	Scudder Falls BMAET	TBD	TBD	
BMAET SF62	Scudder Falls BMAET	TBD	TBD	

TAB 10 Exhibit B - Future Project - SF Northbound Toll Bridge Cameras

FOR INFORMATION PURPOSES ONLY

NB Bridge				
Cameras				Quantity
Camera	Owner	Manufacturer	Product type	20
BMAET SF09	Scudder Falls BMAET	TBD	TBD	
BMAET SF14	Scudder Falls BMAET	TBD	TBD	
BMAET SF15	Scudder Falls BMAET	TBD	TBD	
BMAET SF19	Scudder Falls BMAET	TBD	TBD	
BMAET SF24	Scudder Falls BMAET	TBD	TBD	
BMAET SF23	Scudder Falls BMAET	TBD	TBD	
BMAET SF32	Scudder Falls BMAET	TBD	TBD	
BMAET SF33	Scudder Falls BMAET	TBD	TBD	
BMAET SF34	Scudder Falls BMAET	TBD	TBD	
BMAET SF35	Scudder Falls BMAET	TBD	TBD	
BMAET SF36	Scudder Falls BMAET	TBD	TBD	
BMAET SF43	Scudder Falls BMAET	TBD	TBD	
BMAET SF44	Scudder Falls BMAET	TBD	TBD	
BMAET SF45	Scudder Falls BMAET	TBD	TBD	
BMAET SF46	Scudder Falls BMAET	TBD	TBD	
BMAET SF47	Scudder Falls BMAET	TBD	TBD	
BMAET SF54	Scudder Falls BMAET	TBD	TBD	
BMAET SF55	Scudder Falls BMAET	TBD	TBD	
BMAET SF56	Scudder Falls BMAET	TBD	TBD	
BMAET SF57	Scudder Falls BMAET	TBD	TBD	

TAB 10 Exhibit B - Existing Scudder Falls

FOR INFORMATION PURPOSES ONLY

Existing Cameras								
Camera	Owner	Manufacturer	Product type	Stream usage	Key frame interval	Recording mode	Type	Streaming schedule
SF01 - Taylorsville Rd Overpass	Scudder Falls TSB	DVTel	CF-4221-00	Live/Recording/Remote/Low resolution/High resolution	10	Continuous	Fixed	Always
SF02 - PA On Ramp Approach	Scudder Falls TSB	DVTel	CP-4221-201	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always
SF03 - Canal Structure Looking South	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always
SF04 - Canal Structure Looking North	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always
SF05 - RT 32 Underpass	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always
SF06 - View Of Bridge Piers And NJ Bank - North Side	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always
SF07 - View Of Bridge Piers And NJ Bank - South Side	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always
SF08 - Upstream	Scudder Falls TSB	FLIR Systems	CP-4221-201	Live/Recording/Remote/Low resolution/High resolution	5	Continuous	PTZ	Always
SF09 - Downstream	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always
SF10 - Bridge Piers And PA Bank - North Side	Scudder Falls TSB	Verint	DVT-9540DW	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always
SF11 - Piers And PA Bank - South Side	Scudder Falls TSB	Verint	DVT-9540DW	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always
SF12 - View of RT 29 Underpass	Scudder Falls TSB	DVTel	CF-4221-00	Remote/Low resolution	N/A	Continuous	Fixed	Always
SF12 - View of RT 29 Underpass	Scudder Falls TSB	DVTel	CF-4221-00	Live/Recording/High resolution	6	Continuous	Fixed	Always
SF13 - PTZ Viewing Bridge And Approach	Scudder Falls TSB	FLIR Systems	CP-4221-201	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	PTZ	Always
SF14 - View Of RT 32 Underpass To Capture Area Under Span 1	Scudder Falls TSB	Axis	AXIS M7016	Live/Recording/Remote/Low resolution/High resolution	4	Continuous	Fixed	Always

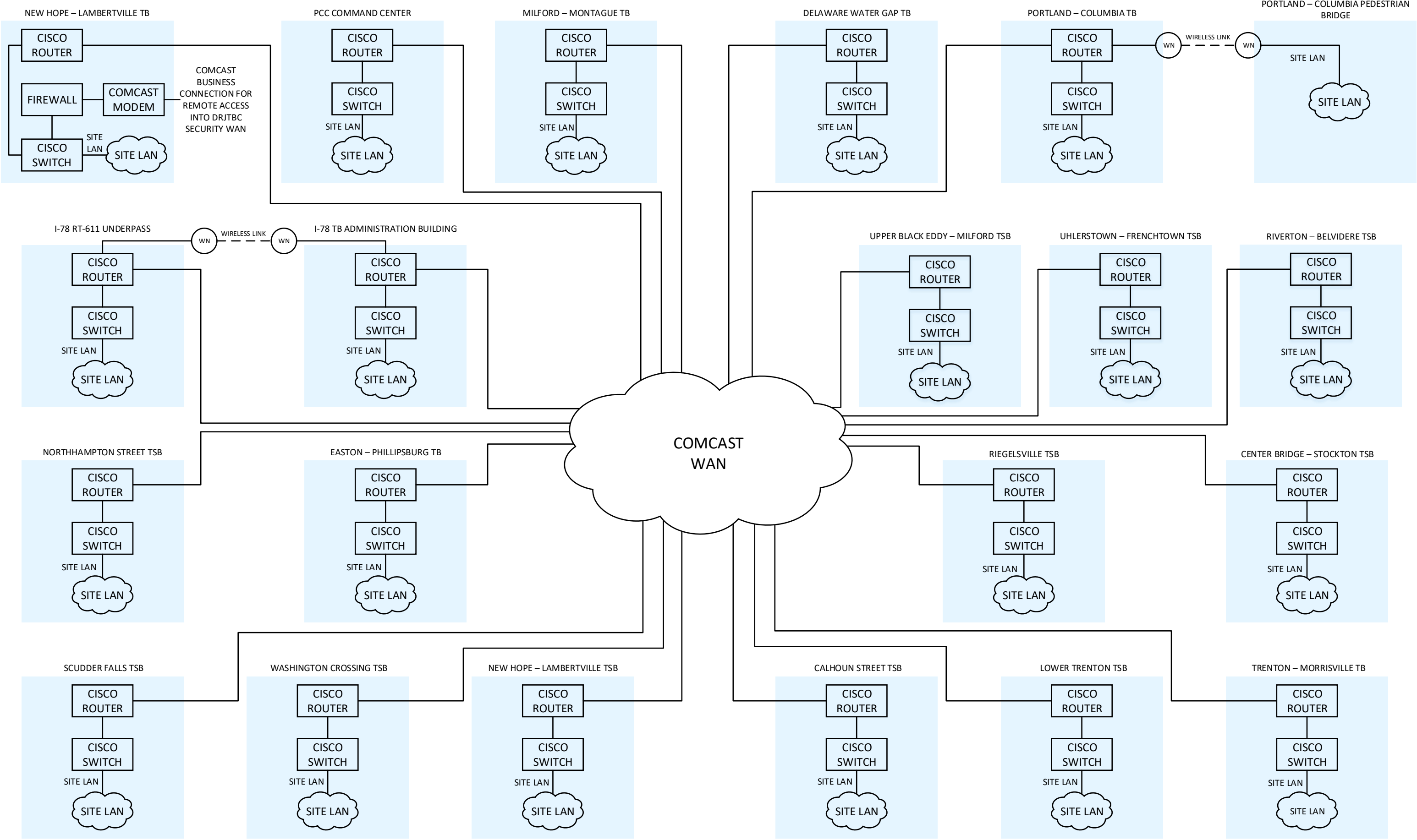
Existing SunWize						
Site	Manufacturer	Model Number	Battery Quantity	Power Source	System Supported	Comments
Scudder Falls	SunWize	999PR66012750-B	3	Lighting Circuit	SF01 & FluidMesh Unit	
Scudder Falls	SunWize	999PR22012240-G	2	Lighting Circuit	SF08,13 & FluidMesh Unit	
Scudder Falls	SunWize	999PR22012240-G	2	Lighting Circuit	SF08,13 & FluidMesh Unit	
Scudder Falls	SunWize	999PR22012240-G	2	Lighting Circuit	SF08,13 & FluidMesh Unit	
Scudder Falls	SunWize	999PR22012240-G	2	Lighting Circuit	SF08,13 & FluidMesh Unit	

Existing Wireless					
Site	Manufacturer	Model Number	Supported System	Wireless Collection Point / Repeater	Antennas
Scudder Falls	FluidMesh	FM2200	SF01	Wireless Collection Point	1
Scudder Falls	FluidMesh	FM2200	SF01	Repeater	1
Scudder Falls	FluidMesh	FM2200	SF08,13	Wireless Collection Point	1
Scudder Falls	FluidMesh	FM2200	SF08,13	Repeater	1

Existing Generator							
Scudder Falls	Generac Power Systems	53291	10KVW	Generac Power Systems	RTSN100A3S	McLean Thermal	T43-1016-G102

EXHIBIT C: DRJTBC ESS OVERALL SYSTEM RISER

FOR INFORMATION PURPOSES ONLY



NOTES

1) CISCO ROUTERS SUPPORT BOTH THE ESS AND COMMISSION ENTERPRISE SYSTEMS (E.G., EMAIL, FILE SERVERS, PHONE, ELECTRONIC TOLL COLLECTION).

2) THE COMCAST BUSINESS CONNECTION FOR REMOTE ACCESS, MODEM AND FIREWALL LOCATED AT THE NH-L TOLL BRIDGE IS THE RESPONSIBILITY (I.E. INSTALLATION, MAINTENANCE AND ACCESS COST) OF THE ESS MAINTENANCE CONTRACTOR.

EXHIBIT D: TSB SHELTER WINDOW MEASUREMENTS

Uhlerstown – Frenchtown TSB

8 Windows

15 ¼" W x 24 ¼" H
15 ¼" W x 34 ½" H
34" W x 41 ¼" H
25" W x 38" H (x4)
34" W x 41 ¼" H

Upper Black Eddy – Milford TSB

5 Windows

18 ½" W x 26 ¼" H
40 ½" W x 41 ½" H
18 ½" W x 26" H
40 ½" W x 41" H
44" W x 33 ½" H

Riegelsville TSB (NJ Approach)

8 Windows

46 ½" W x 26 ½" H
23" W x 40" H
27" W x 40" H
23" W x 40" H
27" W x 40" H
27" W x 40" H (x2)
44 ½" W x 67" H

Riegelsville TSB (PA Approach)

2 Windows

23 ½" W x 35 ½" H
40 ½" W x 97" H

Northampton Street TSB (NJ Approach)

6 Windows

19" W x 49 H (x2)
28" W x 37 ½" H (x2)
16" W x 24" H
51" W x 50" H

Northampton Street TSB (PA Approach)

4 Windows

21 ¾" W x 21 ½" H
37 ½" W x 41 ½" H
39 ½" W x 64 ½" H
40 ½" W x 45 ½" H

Riverton – Belvidere TSB

4 Windows

47 ¾" W x 37" H
27 ½" W x 35 ½" H
27 ½" W x 47 ½" H (x2)

Centre Bridge – Stockton TSB

5 windows

18 ½" W x 30" H
30 ½" W x 33 ¼" H
30 ½" W x 33 ½" H
44 ½" W x 37" H
44 ½" W x 37 ½" H

New Hope-Lambertville TSB (NJ Approach)

7 windows

20 ¼" W x 33 ½" H (x2)
34 ¼" W x 45 ½" H
34 ½" W x 45 ½" H (x2)
36 ¼" W x 45 ½" H (x2)

New Hope-Lambertville TSB (PA Approach)

8 windows

34 $\frac{3}{4}$ " W x 55 $\frac{1}{2}$ " H
35 $\frac{1}{2}$ " W x 55" H (x2)
35 $\frac{3}{4}$ " W x 55 $\frac{1}{2}$ " H (x3)
36" W x 55 $\frac{1}{2}$ " H
70" W x 10 $\frac{1}{2}$ " L 14" M 10 $\frac{1}{2}$ " R (arched window)

Washington Crossing TSB

5 windows

20 $\frac{1}{4}$ " W x 33 $\frac{1}{4}$ " H
28 $\frac{1}{4}$ " W x 33 $\frac{1}{2}$ " H (x2)
40 $\frac{1}{4}$ " W x 42 $\frac{1}{2}$ " H
40 $\frac{1}{2}$ " W x 42 $\frac{1}{4}$ " H

Calhoun Street (NJ Approach)

5 windows

28 $\frac{3}{4}$ " W x 34 $\frac{1}{4}$ " H (x4)
45" W x 38 $\frac{1}{4}$ " H

Calhoun Street (PA Approach)

6 windows

20 $\frac{3}{8}$ " W x 33 $\frac{1}{2}$ " H (x2)
33 $\frac{5}{8}$ " W x 48 $\frac{1}{8}$ " H (x2)
41" W x 47 $\frac{5}{8}$ " H (x2)

Lower Trenton TSB

6 windows

22 $\frac{3}{4}$ " W x 34 $\frac{3}{4}$ " H
24 $\frac{1}{8}$ " W x 37 $\frac{1}{2}$ " H
34 $\frac{5}{8}$ " W x 44 $\frac{1}{2}$ " H
34 $\frac{5}{8}$ " W x 46 $\frac{5}{8}$ " H (x2)
34 $\frac{7}{8}$ " W x 43 $\frac{3}{4}$ " H

EXHIBIT E:
I-78 COMMUNICATIONS AND POWER SUPPLY LINE DIAGRAM

Diagram illustrating the proposed camera locations and equipment for the West Branch of the Middle River.

Location 1 (Top Left):

- Equipment: FIX, PAN, PTZ, WTP, RPS/S
- Actions:
 - REMOVE FLUIDMESH WIRELESS TRANSMISSION POINT
 - REMOVE SUNWIZE CABINET AND SOLAR ARRAY
 - INSTALL ENCLOSURE ON POLE
 - INSTALL POE NETWORK SWITCH WITH SFP MODULES
 - INSTALL FIBER PATCH PANEL
 - REPLACE EXISTING PTZ CAMERA WITH NEW PTZ CAMERA
 - INSTALL NEW FIXED CAMERA
 - INSTALL NEW PANORAMIC CAMERA

Location 2 (Top Right):

- Equipment: FIX, WTP, RPS/S
- Actions:
 - REMOVE FLUIDMESH WIRELESS TRANSMISSION POINT
 - REMOVE SUNWIZE CABINET AND SOLAR ARRAY
 - INSTALL ENCLOSURE ON POLE
 - INSTALL POE NETWORK SWITCH WITH SFP MODULES
 - INSTALL FIBER PATCH PANEL
 - REPLACE EXISTING CAMERA

Location 3 (Bottom Left):

- Equipment: PTZ
- Actions:
 - INSTALL NEW 30' POLE
 - INSTALL ENCLOSURE ON POLE
 - INSTALL POE NETWORK SWITCH WITH SFP MODULES
 - INSTALL FIBER PATCH PANEL
 - INSTALL NEW PTZ CAMERA

Location 4 (Bottom Right):

- Equipment: FIX, PAN, PTZ
- Actions:
 - INSTALL NEW 30' POLE
 - INSTALL ENCLOSURE ON POLE
 - INSTALL POE NETWORK SWITCH WITH SFP MODULES
 - INSTALL FIBER PATCH PANEL
 - INSTALL NEW PTZ CAMERA – VIEW EB LANES
 - INSTALL NEW FIXED CAMERA – VIEW WB LANES
 - INSTALL NEW PANORAMIC CAMERA

Other Labels:

- MP 3.8 EB
- MP 4.1 EB
- Location TBD
- 300 ft

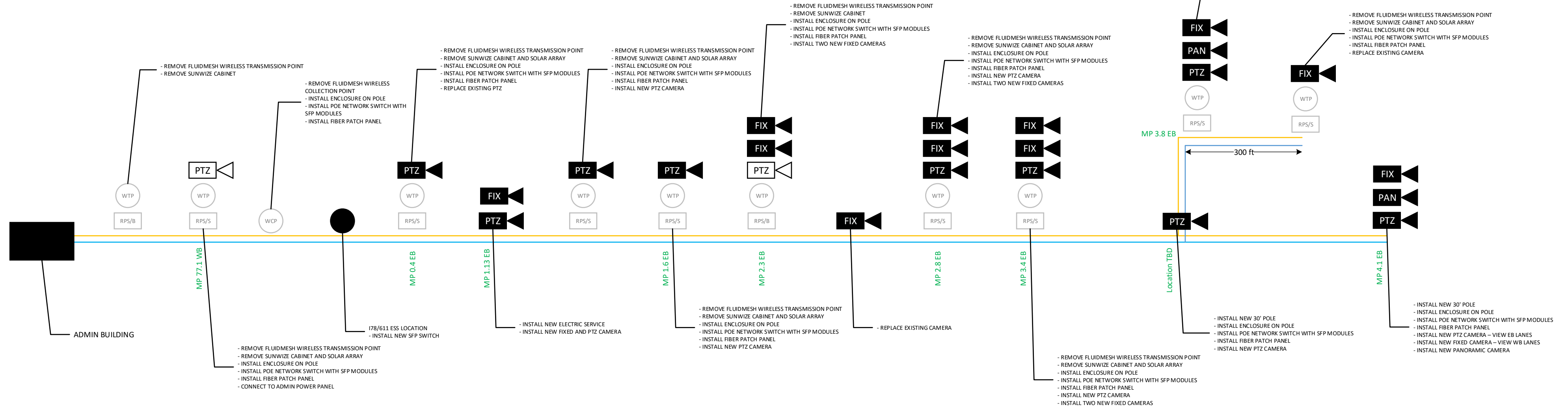
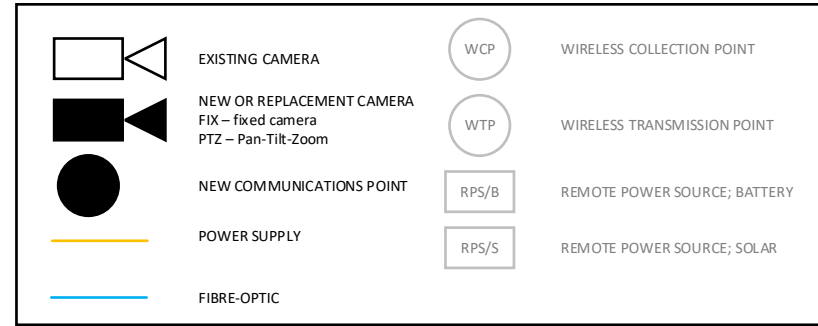


Exhibit F: Test Procedures Template

Subsystem: <i>[System Under Test]</i>	Date:	Test Writer:	Test No.	Revision:
Test Case:				

1.1 Test Case *[Test ID and Test Case]*

DESCRIPTION: <i>[Description of the test being conducted]</i>					
TEST DATE:	TIME:	LOCATION:	TESTER:	RETEST?: Y/N	DISPOSITION:
APPROVED:		DATE:	CONCURRENCE:		DATE:

1.1.1 Test Objectives

Item #:	Reqmt #:	System Requirement
1.		<i>[List all the requirements that are being verified by the test case].</i>
2.		<i>[List all the requirements that are being verified by the test case]</i>
3.		<i>[List all the requirements that are being verified by the test case].</i>
4.		<i>[List all the requirements that are being verified by the test case]</i>

1.1.2 Testing Logistics

Estimated Test Duration *[Estimate time taken for the test including test setup]*

Equipment Needed to Support Testing *[List all the equipment needed to support testing including communications network]*

Verification Tools *[List all the tools that will be used to verify the results of the test]*

Testing Configuration *[If testing includes capture and printing of credentials, analytics, integration, failover, active directory]*

Testing Constraints *[List all conditions that the test team needs to be aware including time constraints]*

Subsystem: <i>[System Under Test]</i>	Date:	Test Writer:	Test No.	Revision:
Test Case:				

1.1.3 Test Setup *[List all pre-requisites and initializations required before testing can commence. Include checklist to validate test setup is successful]*

1.1.4 Detailed Procedures for Conducting Test *[Document the step by step process required to test the requirements of the system being verified]*

STEP	DESCRIPTION	EXPECTED RESULTS	P/F	NOTES
1.	<i>[Describe each step including system login, command line scripts, shell commands etc.]</i>			
2.				
3.				
4.				

TEST COMPLETED?: YES/NO	TEST DURATION:	COMMENTS:

STEP	ISSUE #	DISCREPANCIES/COMMENTS
1.		
2.		
3.		
4.		

Delaware River Joint Toll Bridge Commission
Request for Proposals
Contract No. DB-724A
Electronic Surveillance / Detection System
Maintenance Contract
TAB 10 Exhibit G - Payment Schedule

Payment Number	Payment Milestones	% Paid	Cum. %
Phase 1 - Network Switches & Network Management System (NMS)			
1	Pre-Installation Documents Submittal Accepted	5.00%	5.00%
2	Factory Acceptance Test Accepted	15.00%	20.00%
3	Site InstallationTest Accepted	20.00%	40.00%
4	Operational Test Accepted	40.00%	80.00%
5	As-Built Drawings Accepted	15.00%	95.00%
6	Training	5.00%	100.00%
Phase 2 - UPS			
1	Pre-Installation Documents Submittal Accepted	5.00%	5.00%
2	Factory Acceptance Test Accepted	15.00%	20.00%
3	Site Acceptance Test Accepted	20.00%	40.00%
4	Operational Test Accepted	40.00%	80.00%
5	As-Built Drawings Accepted	15.00%	95.00%
6	Training	5.00%	100.00%
Phase 3 - ACS at Toll-Supported Bridge Shelters			
1	Pre-Installation Documents Submittal Accepted	5.00%	5.00%
2	Factory Acceptance Test Accepted	15.00%	20.00%
3	Site Acceptance Test Accepted	20.00%	40.00%
4	Operational Test Accepted	40.00%	80.00%
5	As-Built Drawings Accepted	15.00%	95.00%
6	Training	5.00%	100.00%
Phase 4 - I-78 Communications and Power Update			
1	Pre-Installation Documents Submittal Accepted	5.00%	5.00%
2	Factory Acceptance Test Accepted	15.00%	20.00%
3	Site Acceptance Test Accepted	20.00%	40.00%
4	Operational Test Accepted	40.00%	80.00%
5	As-Built Drawings Accepted	15.00%	95.00%
6	Training	5.00%	100.00%
Phase 5 - Video Analytics			
1	Proof of Concept Accepted (100% of POC line item)	100.00%	100.00%
	<i>Below are percentages of Phase 5 amount less POS line item</i>		
1	Pre-Installation Documents Submittal Accepted	5.00%	5.00%
2	Factory Acceptance Test Accepted	15.00%	20.00%
3	Site Acceptance Test Accepted	20.00%	40.00%
4	Operational Test Accepted	40.00%	80.00%
5	As-Built Drawings Accepted	15.00%	95.00%
6	Training	5.00%	100.00%

Note: For System Enhancements Only