

UHLERSTOWN - FRENCHTOWN TOLL-SUPPORTED BRIDGE REHABILITATION DESIGN



CONTRACT NO. C-642A
PRE-PROPOSAL MEETING
SEPTEMBER 14, 2023
10:00AM



Delaware River
Joint Toll Bridge
Commission

CONTRACT NO. C-642A

UHLERSTOWN - FRENCHTOWN TOLL-SUPPORTED BRIDGE REHABILITATION DESIGN

Introductions

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Administrative

- Sign in sheet
- Official responses will be provided in writing in response to inquiries
- Sign-in sheet and PowerPoint will be posted to the web site

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Agenda

- Introductions
- Administrative
- Contract Compliance / IBE Participation
- General Project Overview
- Scope of Services
- Proposal Submission Requirements
- Administrative and Contractual Information
- Questions

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Contract Compliance / IBE Participation

- Consultants submitting a proposal for this solicitation agree to abide by the Commission's Contract Compliance Program ("CCP") Requirements.
- The Commission encourages Consultants to meet or exceed the twenty-five percent (25%) IBE participation target for Commission contracts.
- To comply with the Contract Compliance Program, a Consultant has two (2) options:
 - Compliance Plan I - the Consultant may "Opt-In" and complete forms A and B by agreeing to meet or exceed the 25% participation target,
 - Compliance Plan II - the Consultant may provide its Good Faith Efforts documentation (forms A through F) detailing their attempt to meet the 25% participation target.

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Contract Compliance / IBE Participation

- 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.

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Contract Compliance / IBE Participation

Questions regarding preparation of the Compliance Plan should be directed to:

Ms. Christine A Baker
Director of Contract Compliance
1199 Woodside Road
Yardley, PA 19067
(267) 394-6564 (office)
cbaker@drjtbc.org



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IBE Payment Verification

- The Commission uses a Payment Verification System
- 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, for payment to all IBE sub-consultants.

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General Project Overview

- Last rehabilitation a U-F TSB was in 2001
- The scope of the rehabilitation is based on NBIS inspection findings & Commission initiatives
- The Consultant shall perform a thorough review of the 2022 bridge inspection reports (Annual Inspection and Maintenance Reports) (contact the Commission Project Manager Michael McCandless at mmccandless@drjtbc.org to arrange to view the Inspection Reports)
- The scope of the rehabilitation as outlined herein shall be verified and amended as needed based on available information, initiatives and findings identified in the consultant's in-depth inspection

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Project Goals

- Maintain Commission-owned bridges
- Provide transportation services to the communities
- Address Commission and community initiatives
- Provide all repairs required so that the bridge will not need any additional major repairs for a minimum period of fifteen (15) years.

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Design Schedule

- Anticipated Award/Limited Notice to Proceed (LNTP) – January 23, 2024
- Final Design Submission – October 11, 2024
- Anticipated Construction Contract bid date – October 18, 2024

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Scope of Services

- Replace the sidewalk deck.
- Repair or replace deteriorated or damaged steel superstructure members
- Clean and paint all non-galvanized superstructure steel including bearings. Galvanized steel members shall be evaluated for repair/coating needs.
- Clean and re-lubricate bridge expansion bearings.
- Repair or replace the sections of damaged guide rail and posts throughout the bridge.
- Adjust or modify the bearing assembly as needed to eliminate the gap between the load plate and PTFE sliding surface on the elastomeric pad at the stub stringer bearings at Pier 2
- Repair or replace loose, missing, or fractured masonry stones at the abutments, piers, and retaining walls.
- Repair or reconstruct the bulging condition at the downstream NJ wingwall.
- Repoint substructure masonry joints as needed.

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Scope of Services (cont.)

- Repair the spalled concrete on pier caps.
- Repair/inject the wide cracks in the pier caps.
- Place riprap, grout-filled bags, and/or other scour protection at the West Abutment and piers.
- Clear all flood debris from pier aprons.
- Replacement of overhead bridge roadway lighting, including cabling and conduit as needed.
- Replacement of ESS conduit, fiber, and equipment.
- Installation of aesthetic lighting.
- Assess the condition of the approach roadways to the bridge, recommend needed repairs, and provide needed repairs as part of the final design.

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Scope of Services (cont.)

- Manage and administer the project
- Implementation of required public involvement and outreach
- Conducting an in-depth field inspection of the bridge
- Perform bridge load ratings – Existing & Final Design
- Evaluate the useful life expectancy of the steel grid deck.
- Prepare Bridge and Roadway Condition Assessment and Recommendations Report
- Develop a lighting design for the replacement of the bridge roadway lighting.
- Develop Preliminary Design documents,
- Complete the final design
- Provide post-design services

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Scope of Services (cont.)

- Reports shall be in PDF format, bookmarked, indexed and searchable
- Electronic and executable files shall accompany all submissions

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Scope of Services - Task E. Public Involvement

The Consultant is expected to develop and implement a comprehensive Community Involvement campaign

- The Consultant is invited to provide a detailed discussion in the proposal of the approach to this portion of the work for consideration by the Commission
- This Task shall be completed during the Preliminary Design phase of the project
- All Public Involvement issues shall be substantially resolved prior to the Final Design phase of the project

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Scope of Services - Task E. Public Involvement

The Commission intends to hold separate meetings (2) with elected officials and other key business and community leaders (stakeholders) to brief them on the project.

- The Commission intends to hold a series of public Open House meetings

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Scope of Services – Task F Unforeseen Services

- The Consultant shall include a Pre-Determined Amount (PDA) item in their Fee Proposal in an amount of \$100,000 for unforeseen services.
- Services to be provided will be “if and where directed” by the Commission.

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Scope of Services - Part II A – Assessment and Evaluation

b) In-Depth Inspection

- All inspection and design work will be conducted under the direction of a professional engineer licensed in the State of New Jersey and/or the Commonwealth of Pennsylvania.
- All equipment including access equipment and traffic control, required for the inspection, shall be provided by the Consultant.
- All inspections impacting traffic must be performed within the hours of 9:00 AM and 3:00 PM, Monday through Friday.

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Scope of Services - Part II A – Assessment and Evaluation

c) Bridge Load Rating

- BAR7 as developed by PENNDOT shall be used to determine traditional Inventory Ratings and Operating Ratings using both Load Factor (LF) and Allowable Stress (AS) methods.
- Load ratings shall be prepared for the following live load vehicle configurations:
 - H20, HS20, ML80, TK527 and P-82
 - Car train of 400 PLF per lane
- Perform ratings for one (1) lane loaded with the vehicles positioned adjacent to the truss
- Perform gusset plate analysis of the trusses. The use of BAR-7 for the gusset plate analysis is acceptable.
- BAR-7 has limitations regarding the analysis of localized section losses. It is anticipated that the rating of gusset plates with localized losses will require additional analysis.
- The Consultant shall prepare and submit a load rating report (independent report)

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Scope of Services – Assessment & Recommendations Report

- Condition assessment and recommendations as to repairs / improvements
- Recommendations to repair / strengthen primary members
- Bridge painting recommendations
- Supporting justification for all recommended repairs / improvements
- A summary of the bridge ratings
- Assessment of the open grid deck condition and expected useful life
- Recommendations for repair/replacement of the bridge's electrical components including the conduit, wiring, junction boxes, cabinets, and service panels, bridge ornamental lighting

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Scope of Services – Assessment & Recommendations Report

- Constructability and staging evaluation, including any required temporary support requirements
- Evaluation of maintenance and protection of traffic options
- Design criteria
- Proposed member strengthening
- Estimated construction costs with itemized breakdown and supporting back-up
- Anticipated construction schedule with major work breakdown and milestones
- 11" x 17" preliminary plans to include detail to a level sufficient to demonstrate the repair / improvement concepts and location along with construction staging concepts and construction access
- A list of anticipated permits required for the construction

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Scope of Services – Report Submissions

- Reports shall submit in both PDF format and WORD format
- PDF reports shall be indexed, bookmarked, and searchable.
- All final reports shall also include all electronic and executable files.
- The draft and final report submissions are to be accompanied by a Quality Assurance Form (Attachment VI)

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Scope of Services – Architectural Bridge Lighting

The architectural lighting concept study and associated design shall be performed by Domingo Gonzalez Associates (DGA) (NY, NY) as a subconsultant party to this agreement.

Phat Quach, IES, LC, LEED Green Associate Director

Domingo Gonzalez Associates, Inc.

Architectural Lighting Design

29 Broadway 3rd Floor

New York, NY 10006

Tel: (212) 608-4800 x18

pquach@dgalight.com

www.dgalight.com

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Scope of Services – Part III – Prelim. & Final Design

- The Commission anticipates the “letting” of one (1) construction bid package.
- The plans and specifications shall be developed in accordance with the policy and procedures of the PENNDOT Publication 408-2016
- Section 100 as revised by the Delaware River Joint Toll Bridge Commission, and the most recent edition of PENNDOT Publication 408-2016

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Scope of Services – Part III – Prelim. & Final Design

b) Electronic Surveillance System (ESS)

- The consultant shall coordinate staging with the Commission's need to maintain an operational ESS system
- Provisions for temporary relocation of cameras will be required
- The consultant shall establish provisions for new conduit, fiber, electric supply, and boxes for the ESS system
- The consultant is required to coordinate with the Commission / Commission's ESS contractor for equipment and other hardware requirements associated with the ESS system.

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Scope of Services – Part III – Prelim. & Final Design

- Bridge Roadway & Sidewalk Lighting and Electrical
- This task is for the development of a lighting design for the replacement of the bridge roadway lighting
- Coordinate with the Commission to present up to three (3) alternative aesthetic bridge lighting fixtures for installation on the bridge structure as replacements for the existing fixtures
- It is assumed that the new generator will be located near the NJ shelter along with new and required electrical boxes, breakers panel and switch gear
- The consultant shall coordinate with the gas utility in the area to provide gas service to the new generator
- It is the Commissions desire to have one electrical service provider

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Scope of Services – Part III – Prelim. & Final Design

- Pre-Final Design Submission
- This submission will be required to be 100% complete when submitted.

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Scope of Services – Part IV – Post Design Services

- Task A Pre-Award Services
- Task B Post-Award Services

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Proposal Submission Requirements

- The Prime Consultant shall submit one (1) electronic copy of their Technical Proposal and one (1) separate electronic copy of their Fee Proposal. The electronic copy of each the Technical and Fee Proposals shall be in PDF format, include 'bookmarks' for various sections, be searchable
- Technical Proposal Requirements – pages 28 to 31 of the RFP
- Fee Proposal Requirements – pages 31 & 32 of the RFP

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Proposal Schedule

Proposal Schedule	Date
Issue / Post RFP on Website	September 5, 2023
Pre-Proposal Submission Meeting	September 14, 2023
Closing Date for Submittal of Inquiries	September 21, 2023 – 3:00 PM
Responses to Inquiries	September 28, 2023
Closing Date for Proposal Submission - Submittal of Technical Proposal and Fee Proposal	October 10, 2023 - 3:00 PM
Oral Presentations (if required)	November 9, 2023
Authorization to Negotiate	December 18, 2023
Anticipated Award / Limited Notice to Proceed	January 23, 2024



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Administrative and Contractual Information

- See Attachment I: Administrative and Contractual Information.
- Technical Proposals and Fee Proposals must be delivered to the Commission electronically in separate bookmarked and searchable PDF files, prior to the time and date specified.

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Administrative and Contractual Information

- Proposals must be submitted by 3:00 PM, local time, on the date indicated in the Proposal Schedule (10/10/2023) and transmitted by email / file transfer to the Program Manager – Structures (mmccandless@drjtbc.org) with copy to the Chief Engineer (kskeels@drjtbc.org). Due to email attachment size limitations, Proposals may be divided in parts and transmitted by way of multiple emails provided the emails and their corresponding attachments are labeled accordingly. The Commission does not accept emails larger than 35MB in size.
- The Consultants shall be fully responsible for the delivery of their Inquiries and Proposals. Receipt of electronic transmissions within the deadlines specified is the consultant's responsibility.

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QUESTIONS