PROJECT INFORMATION MEETING

I-81 OVER US ROUTE 11, NORFOLK SOUTHERN RAILWAY & MIDDLE FORK HOLSTON RIVER BRIDGE REPLACEMENT PROJECT

SMYTH COUNTY/ CITY OF ATKINS, BRISTOL, VIRGINIA

State Project #s 0081-086-742, P-101, B-659; 0081-086-818, B-663
Contract ID: C0097555DB102

Jeffrey Powell, P.E – Asst. District S&B Engineer, Bristol
Suril Shah, P.E, DBIA – APD Project Manager - POC

June 12, 2018
Agenda

• Project Overview
• RFQ Summary
• Questions / Answers
Project Purpose

- To improve safety by replacing the existing structurally deficient I-81 NBL structure and I-81 SBL structures which are in poor condition
- To improve operations by replacing the existing structures which have substandard vertical clearances over US Route 11
Project Location

Bridge Coordinates
N 36° 52' 27.48"
W 81° 23' 55.78"

Mile Marker 52.9
Smyth County
Bristol District
Project Location (Aerial)
Existing I-81 Bridges over Route 11, NS Railroad & Middle Fork Holston River
Existing Bridges Plan
Condition of Existing Bridges (Northbound)

**NB Structure**
- Built – 1964
- Seven simple spans, steel beams with concrete deck, structure is 484’-0” long
- Skew is 43 degrees +/-
- Structure carries two 12’ lanes in each direction with 4’ +/- shoulders

**Structurally Deficient (SD)**

**Inspection Ratings**
- Deck: 4 (Poor)
- Super: 5 (Fair)
- Sub: 5 (Fair)
- Channel: 7 (Good)

**Sufficiency rating = 58.9**
Condition of Existing Bridge (NB) - April 2017

Photograph No. 6
Typical Patches in the Deck Overlay of NB Bridge

PHOTO #9
Spalled area exposing reinforcing steel in curb in Span 4.

Photograph No. 9
Deck Spalling with Exposed Rebar along the Joint at NB Bridge Pier 5

PHOTO #12
Drain pipe broken and separated at Pier 2 on left side.
Condition of Existing Bridge (NB) - April 2017

PHOTO #14
Corrosion and section loss on bearing device for Beam 1 in Span 3 at Pier 2.

PHOTO #15
Corrosion and section loss on bottom flange of Beam 1 in Span 3 at Pier 2.

PHOTO #23
Vertical Clearance sign at Route 11 North.

PHOTO #19
Spalled area exposing reinforcing steel in Pier 4 cap.
Condition of Existing Bridges (Southbound) - April’ 16

SB Structure
- Built – 1964
- Seven simple spans, steel beams with concrete deck, structure is 484.501’-0” long
- Skew is 43 degrees +/-
- Two 12’ lanes in each direction with 3’ shoulders

Structural Condition
- Fair Inspection ratings
  - Deck: 5 (Fair)
  - Super: 5 (Fair)
  - Sub: 5 (Fair)
  - Channel: 7 (Good)
- Sufficiency rating = 62.2
Condition of Existing Bridge (SB) - April 2016

PHOTO #1
Approach elevation looking from Abutment A to Abutment B.

PHOTO #6
Steel exosion reinforcement steel on Span 2 soffit

PHOTO #16
Corrosion and section loss on Beam 5 bearing device in Span 7 at Pier 6.

PHOTO #18
Corrosion and section loss on Beam 5 bottom flange in Span 4 at Pier 4.
Condition of Existing Bridge (SB) – April 2016

PHOTO #8
Spall on end of deck soffit at Pier 4.

PHOTO #9
Spall on end of deck soffit at Pier 6.

PHOTO #14
Drain pipe broken and separated in Span 4 at Pier 3.

PHOTO #22
Spall on Pier 6 cap.
Traffic

I-81
- Present ADT: (2016) 30,768
- Design Year ADT: (2045) 45,000
- Truck Percentage: 20%

US Route 11
- Present AADT: 2600 with 2% truck
RFQ Concept

CONCEPTUAL PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION
Project Status

Environment
- Noise Study – Not required, Type III project
- Cultural Resources – Clear, no-effect
- NEPA Document – Categorical Exclusion dated May 2018

Railroad Agreement
- Preliminary coordination ongoing

Federal Aviation Authority (FAA) Approval
- Obtained Temp. Crane Operation approval

Posted Public Willingness
- No Request for Public Hearing received
The scope includes but is not limited to all work required to support the design and construction of:

- Roadway
- Survey
- Structure and/or Bridge
- Environmental
- Geotechnical
- Hydraulics
- Traffic Control Devices
- Transportation Management Plan
- Utilities
- Public Involvement/Relations
- Quality Assurance and Quality Control
- Railroad coordination
- Construction Engineering and Inspection
- Project Management
RFQ SUMMARY

• VDOT POC
  Suril R. Shah, P.E, DBIA
  Alternate Project Delivery Division
  1401 East Broad Street
  Richmond, Virginia 23219
  Phone: (804) 225-3799
  Fax: (804) 786-7221
  E-mail: Suril.Shah@vdot.virginia.gov

• Two-Phase Best Value Procurement

• Short-List 3 Highest Ranked Teams

• Estimated Contract Value - $21,000,000
Alternative Technical Concepts (ATCs)

- Code of Virginia (§ 33.2-209(B) has been amended to allow consideration of ATCs
- ATCs may be permitted and considered during the RFP phase of the Project
- Specific details will be included in the RFP
- VDOT’s draft ATC Process and Procedures can be found at VDOT’s Design-Build website: http://www.virginiadot.org/business/design-build.asp
Anticipated Schedule (Section 2.5)

- RFQ Questions to VDOT: 06/21/2018
- VDOT Response to Questions: 06/29/2018
- SOQ Submission Date: 07/12/2018
- Notification of Shortlist: 08/17/2018
- Anticipated RFP Release Date: 08/28/2018
- Anticipated Award Date: 02/20/2019
- Final Completion: May 2022
RFQ Information Package (Section 2.8)

RFQ Conceptual Plans
• RFQ Conceptual Plans

As-Built Plans
• As Built Bridge Plans
• As Built Roadway Plans

NEPA Document - Categorical Exclusion

Notice of Willingness
Monitor VDOT’s Design-Build RFQ website for responses to RFQ questions and Addendums
http://www.virginiadot.org/business/request-for-qualifications.asp

If VDOT issues an addendum, a revised C-78 form will be included with the addendum

Sign, date and include the C-78 with SOQ
Contents of Statements of Qualifications (SOQ)

• Letter of Submittal (Section 3.2)
  ✓ POC & Principal Officer, Corporate Structure, Lead Contractor and Lead Designer, Surety, Evidence of Prequalification, SCC & DPOR information, etc.
  ✓ Commitment to achieving a 4% DBE participation goal

• Offeror’s Team Structure (Section 3.3)
  ✓ Key Personnel (4)
    • Design Build Project Manager
      » Responsible for the overall Project design, construction, quality management and contract administration
    • Design Manager
      » Responsible for coordinating the design of the Project and overseeing the QA/QC program for all design disciplines
    • Quality Assurance Manager
      » Responsible for the QA inspection and testing of all materials used and work performed on the Project
      » No contractual relationship with QC firm and no involvement in construction operations (to include QC inspection and testing)
Contents of Statements of Qualifications (SOQ)

- **Key Personnel (cont..)**
  - **Construction Manager**
    - Responsible for managing the construction process, to include all Quality Control (QC) activities
    - Required to be on the Project site full time for the duration of construction operations
    - Provide a list of current assignment and anticipated duration of each assignment

✓ **Organizational Chart and Narrative**
  - Clear separation between QA and QC staff
Contents of Statements of Qualifications (SOQ)

• Experience of Offeror’s Team
  ✓ Lead Contractor Work History Form
  ✓ Lead Designer Work History Form

Format and Appearance of the Key Personnel Resume Form and Work History Forms should not be modified

The team proposed by the Offeror shall remain intact throughout the procurement process and, if awarded the contract, the duration of the contract

• Project Risks
  ✓ VDOT has identified 1 unique Risk critical to the success of the Project
  ✓ DB team to identify 2 additional unique Risks critical to the success of the Project
    • Why is the risk critical?
    • What is the potential impact?
    • Mitigation strategies?
    • VDOT’s role?
Evaluation Criteria (Section 4)

- Offeror’s Team Structure 30%
- Experience of Offeror’s Team 40%
- Project Risks 30%

Total 100%

Design Build Evaluation Guidelines, Revised May 2014 (On VDOT’S DB Website)

Submittal Requirements (Section 5)

- Deadline for submitting a Statement of Qualifications is July 12 at 4:00PM
- 1 original paper version with original signatures
- 1 CD-ROM with entire SOQ
- 10 abbreviated paper copies
- Statements of Qualifications shall be:
  - Securely bound
  - No more than 15 pages
  - Typed on one-side only
  - Separated by numbered tabs
  - Original shall include all required documentation
  - Written in Times New Roman with a 12 point font
RFQ Questions (Section 6)

- All questions and request for clarifications shall be **submitted in writing to the VDOT POC**.

- Deadline for submittal is **June 21, 2018**

- Responses will be posted by **June 29, 2018**
The following firms have been determined to have a conflict of interest:

- MBP
- Reynold Smith and Hill (RS&H), Inc. (RS&H)
- Johnson, Mirmiran and Thompson, Inc. (JMT)
  - Hurt & Proffitt
  - ESP Associates, P.A
- ECS Mid Atlantic
  - Blue Ridge Drilling Inc.
  - H&B Survey & Mapping, LLC
Conflict of Interest  (Section 11.2)

- Each Offeror shall identify potential conflicts of interest
  - See Alternate Project Delivery Office Memorandum IIM-APD-2 dated December 27, 2012

- If a potential conflict of interest or competitive advantage is identified, the Offeror shall submit in writing the pertinent information to VDOT’s POC

- Embedded Employees within VDOT may pose a potential Conflict of Interest
QUESTIONS ??