MARYLAND DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY ADMINISTRATION

I-695 from I-70 to MD 43
Transportation Systems Management and Operations (TSMO)
Design-Build Project
MDOT SHA CONTRACT NO. BA0065172

INDUSTRY INFORMATIONAL MEETING
APRIL 12, 2019

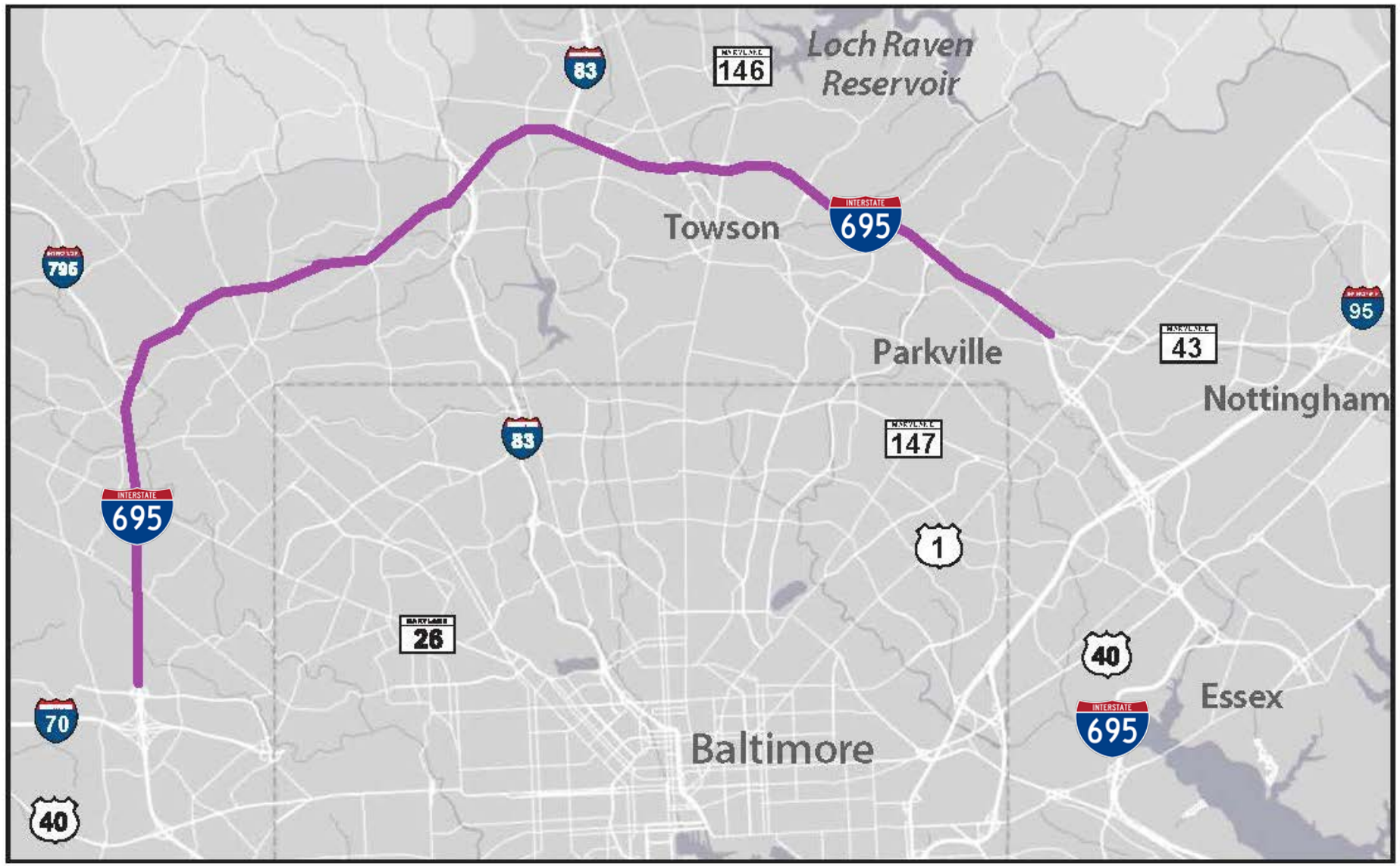
PRESENTED BY: VIRGINIA COLLIER and DAVID PHILLIPS

PRESENTATION OVERVIEW

- Project Location
- Existing Conditions
- Project Goals
- Environmental Compliance
- Permit Overview
- Procurement Overview
- Procurement Schedule

PROJECT LOCATION

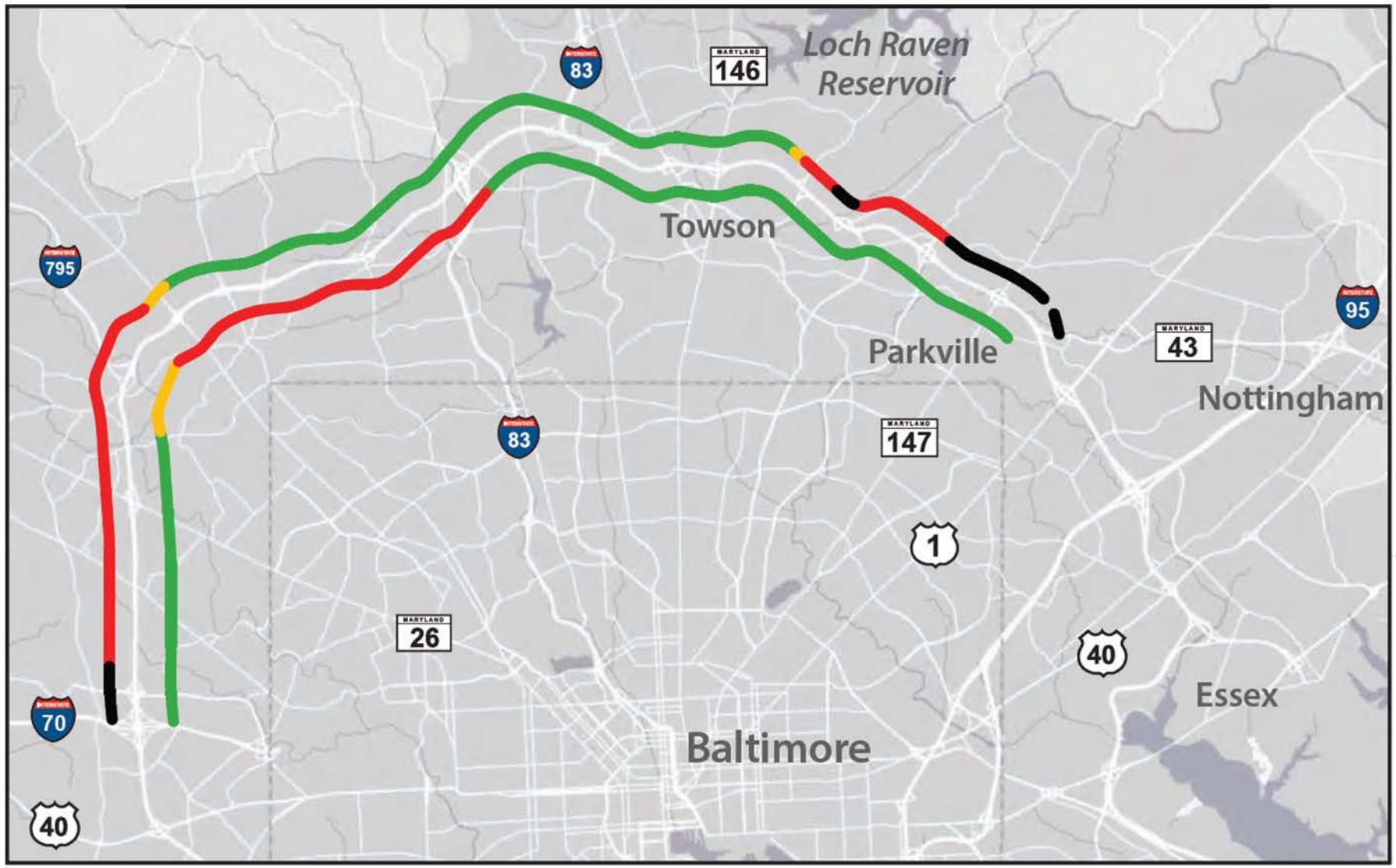
- Project Location
  - Baltimore County
- Project Limits
  - Western and northern beltway, inner and outer loops
  - I-70 Interchange to MD 43 Interchange
  - Entire limits are part of the National Highway System
  - I-695 is classified as an urban interstate



PROJECT LOCATION

EXISTING CONDITIONS

- Project limits contain six of the top fifteen most congested roadway segments in Maryland *(2015)*
  - Recurring congestion
    - AADT within limits varies from 122,000 to 216,000
  - Non-recurring congestion
    - Impacts reliability of commuter trip



AM PEAK PERIOD CONGESTION

PM PEAK PERIOD CONGESTION

EXISTING CONDITIONS

- Pinch Points
  - There are known existing pinch points due to various constraints within the corridor, such as sign structures, pavement width, bridge widths, and noise barriers
- Shoulder pavement thickness varies and is minimal in some areas
- Additional information to be provided with the RFP:
  - Existing structural information
  - Adjacent Environmental resources
  - Historical information
  - Pavement cores and thickness report
  - Existing traffic model

PROJECT GOALS

- **Part-Time Shoulder Use -** Maximize dynamic part-time shoulder use to increase vehicle throughput and minimize travel times and delay

- **Mobility –** Maximize vehicle throughput, minimize travel times, and create a more reliable commuter trip

PROJECT GOALS

- **Safety –** Provide for a safer I-695 corridor

- **Operability/Maintainability/Adaptability** – Provide improvements that minimize maintenance and operations while being adaptable to future technological advancements

ENVIRONMENTAL COMPLIANCE

- Anticipated Categorical Exclusion – Completed by MDOT SHA for existing MDOT SHA ROW
  - Anticipated approval Summer 2019, overlap with project procurement
- No commitments are made to any alternative being evaluated in the NEPA process and that the comparative merits of all alternatives presented in the NEPA document, including the no-build alternative, will be evaluated and fairly considered

ENVIRONMENTAL COMPLIANCE

- After NEPA approval should the Design-Builder's design result in an increase in impacts such that a subsequent, post Award, Reevaluation is required, the Reevaluation will be completed by MDOT SHA with the Design-Builder providing any and all technical data

PERMIT OVERVIEW

Anticipated Permits:

- Stormwater Management/Erosion and Sediment Control – acquired by Design-Builder
- Joint Permit Application – Environmental inventory underway. Depending on potential impacts, MDOT SHA will either pursue a JPA with modifications to be done by the DBT or some level of permitting to be placed on the DBT.

PERMIT OVERVIEW

- Reforestation – Forest and tree inventory underway. Depending on potential impacts/mitigation, MDOT SHA will either get a permit with modifications to be done by the DBT or some level of permitting/mitigation to be placed on the DBT.
- IAPA – if necessary based on proposed improvements, will be submitted by MDOT SHA with the Design-Builder providing any and all data

TOPOGRAPHY AND EXISTING RIGHT-OF -WAY

- Topography will be provided along the I-695 corridor and ramps
  - Any additional topography based on proposed DB improvements will need to be conducted by DB team
- Survey of existing Right-of-way underway and will be provided as part of procurement
- MDOT SHA is not currently acquiring right-of-way for this project

UTILITIES

- Conducting a Quality Level C Utility Designation
- Above and below ground utilities potential for relocation based on Proposer's design
- Utilities in the project limits:

- Verizon
- BGE – Gas & Electric
- Level 3
- Baltimore City DPW
- Baltimore Co. DPW
- MCI
- Comcast
- AT&T
- 24/7 Mid-Atlantic Network
- Century Link-Level 3
- Legend
- MDSHA
- Zayo
- Colonial Pipeline

UTILITIES

- Once Utility Designations for the project are complete MDOT SHA will assess potential for impacts
- If potential for impacts, MDOT SHA anticipates obtaining relocation design time frames and construction time frames from utility companies
- Utility relocations would be assessed and planned for by Design-Builder and concurrent with Design-Builder activities; coordination will be the responsibility of the Design-Builder

PROCUREMENT OVERVIEW

- Competitive Sealed Proposals (COMAR 21.05.03)
- Fixed Price/Best Value Selection
  - Cost Class "L" – Over $100,000,000
- Two –Step Procurement Process
  - Step 1 – Request for Qualifications
  - Step 2 – Request for Proposals
    - Technical Proposal
    - Price Proposal

PROCUREMENT OVERVIEW

- Fixed Price / Best Value Contract
- The selected Proposer will submit the proposal that best meets and / or exceeds the Project Goals at the fixed budget
- Price proposals must be for the exact amount stipulated in the RFP. Any figure higher or lower than the Fixed Price will be considered non-responsive

STEP 1 - REQUEST FOR QUALIFICATIONS

- Objective is to establish a Reduced Candidate List (RCL) of the **Most Highly Qualified Proposers.**
- Evaluations Factors
  - Design-Builder Capability
  - Project Understanding and Design-Build Approach
  - Legal and Financial Information

STEP 1 - REQUEST FOR QUALIFICATIONS DESIGN-BUILDER CAPABILITY

- **Key Staff** (at a minimum)
  - Design-Build Project Manager
  - Design Manager
  - Construction Manager
  - Traffic Engineer
  - Highway Engineer
  - Intelligent Transportation Systems Specialist
  - Independent Design Quality Management Firm

STEP 1 - REQUEST FOR QUALIFICATIONS DESIGN-BUILDER CAPABILITY

- Independent Design Quality Management (IDQM)
  - An independent firm hired by the Design-Builder to review all design elements to ensure compliance with the Contract requirements and the Design Quality Control Plan

STEP 1 - REQUEST FOR QUALIFICATIONS DESIGN-BUILDER CAPABILITY

- **Firm Past Performance**
  - Description of 6 relevant projects with major construction elements that demonstrate ability to be successful on this project.
  - Similar scope and Similar complexity
  - Demonstrate the Design-Build Team's ability to deliver this project successfully
  - Must be completed by committed members of the Design-Build Team

STEP 1 - REQUEST FOR QUALIFICATIONS DESIGN-BUILDER CAPABILITY

- **Organizational Chart**
  - Identify participants who are responsible for the major project functions
  - Depict lines of communication
  - Identify reporting relationships in managing, designing, and building the project
  - At a minimum, the chart shall reflect all Key Staff identified and the number of hours per week the Key Staff will dedicate to the project

STEP 1 - REQUEST FOR QUALIFICATIONS
PROJECT UNDERSTANDING AND DESIGN-BUILD APPROACH

- Describe the Design-Builder's strategic approach to evaluating and ensuring that the project goals are met, including how you will utilize the various expertise of your team members in this approach.

- Describe the most relevant and critical risk(s) associated with achieving each Project Goal. Describe the process the Design-Build team will implement to balance these risks and how you will utilize the various expertise of your team members to manage the risks.

- Provide a narrative on the process the Design-Build team will implement from design initiation through construction completion to ensure conformance with the contract documents and to produce complete, coordinated, economical, timely, fully functional quality design and construction products. Include the roles and responsibilities of the IDQM in this process.

STEP 1 - REQUEST FOR QUALIFICATIONS

- Evaluations
  - Separate Evaluation Teams for a specific factor or factors
  - Evaluation Committee recommends RCL
  - Selection Committee approves RCL
  - Adjectival Rating Process - Acceptable, Good, Exceptional
  - Relative Importance of factors – Critical, Significant, Important

STEP 1 - REQUEST FOR QUALIFICATIONS

- Once the Statement of Qualifications (SOQ) evaluations are completed, a RCL will be developed of the most highly qualified Proposers
- Those Design-Build Teams who have made the RCL will be issued a Request for Proposals (RFP) and invited to submit Technical Proposals and Price Proposals

STEP 2 – TECHNICAL PROPOSAL / PRICE PROPOSAL

- One on One Meetings
  - **CONFIDENTIAL**
  - Proposers may:
    - Ask Questions related to the RFP (Proprietary or Clarifications)
    - Identify Concerns/Conflicts in RFP
    - Discuss solutions to address project goals
    - Present Potential ATCs
  - Agenda is set by Proposer +/- 1 week prior

STEP 2 – TECHNICAL PROPOSAL / PRICE PROPOSAL

- Standardized Questions
  - **CONFIDENTIAL**
  - MDOT SHA will release standardized questions to RCL at the conclusion of each One-on-One meeting period
  - Proposers will have one week to respond
  - All responses will be CONFIDENTIAL
  - Any changes resulting from proposer responses will be issued via addendum

There are no other confidential questions outside of the One-on-One meetings and the Standardized Questions.

STEP 2 – TECHNICAL PROPOSAL / PRICE PROPOSAL

- Alternative Technical Concepts
  - **CONFIDENTIAL**
  - Pre-approval of alternatives to RFP requirements
  - Confirm Design-Builder solutions meet or exceed RFP requirements
  - "Practical" Design solutions to advance project goals without compromising safety
  - Approval of ATC alternative will be for proposer only.
  - Must demonstrate that the ATC will meet/exceed/advance the project goals and/or be equal to or better than RFP requirements

STEP 2 – TECHNICAL PROPOSAL / PRICE PROPOSAL

- Price Proposals
  - Fixed Price
  - The price shall be on a lump sum basis, and shall include all engineering, design, research investigation, construction, labor, equipment and materials, and all incidentals necessary to complete the design and construction of this project.

STEP 2 – SELECTION

- The selected Proposer will submit the proposal that best meets and / or exceeds the Project Goals at the fixed budget
- Technical Proposals will be approximately three times the relative importance of the SOQ in determining the technical rating
- When determining which Proposer's submittal is most advantageous to the State, the relative importance of the overall technical rating is substantially greater than the price.
- Stipends offered to unsuccessful Proposers (higher percentage of overall contract value used to calculate stipend amount)

PROCUREMENT SCHEDULE

STEP 1 – TECHNICAL PROPOSAL	
Advertise Request for Qualifications (RFQ)	May 14, 2019
Final Date for RFQ Questions	June 21, 2019
Submit Statement of Qualifications (SOQ)	July 5, 2019
Notify Reduced Candidate List (RCL)	August 2019

PROCUREMENT SCHEDULE

STEP 2 – PRICE PROPOSAL	
Issue RFP	August 2019
One-on-One Meetings	September – November 2019
Last Day to Submit ATCs	November 13, 2019
Last Day for Questions	November 29, 2019
Letter of Interest	December 6, 2019
Submit Price Proposals	December 13, 2019
Submit Technical Proposals	December 20, 2019
Selection of Successful Team	February 2020
Notice to Proceed (Anticipated)	March 2020

CONTACT INFORMATION

Questions?

CONTACT INFORMATION

- Information related to this meeting and presentation will be available at the following:
  - www.roads.Maryland.gov
  - Under Business Center, Contracts, Bids & Proposals, Design-Build Projects
- Statement of Qualifications and Technical Proposals from previous Design-Build projects are available at the following:
  - www.roads.Maryland.gov
  - Under Business Center, Contracts, Bids & Proposals, Alternative Project Delivery, Design-Build Projects

Email: BA0065172_1695_TSMO@sha.state.md.us