395 Express Lanes Industry Outreach

INTRODUCTIONS

- Karl Rohrer, Head of Delivery, Transurban
- Susan Shaw, Regional Transportation Program Director, VDOT
- Sean Mallipudi, Procurement Manager, Transurban
- Greg Linenfelser, Health and Safety Manager, Transurban
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MEETING PURPOSE

INFORM: Inform contracting community about the 395 Express Lanes Project and design-build procurement plan

APPROACH: Provide key information on Transurban’s approach and expectations for the project

FEEDBACK: Seek feedback from potential bidders to inform the procurement process
One of largest toll road owners and operators in the world

Operates 740 miles of roadways across 4 key markets

Assets in US and Australia with more than 8 million customers

Leader in Safety and Sustainability

Founded in 1996, Global HQ in AUS; US business launched in 2006, HQ in Alexandria, VA
VIRGINIA EXPERIENCE

LONG-TERM PARTNER WITH VIRGINIA

- Responsible for $3 billion in transportation improvements in Virginia
- Operate 2 of 3 largest P3 projects in the state
- Innovative approaches to project delivery

CORE CAPABILITIES

- Network planning and forecasting
- Project development and delivery
- Operations and customer management
- Community engagement
- Application of technology
Transurban (dba 95 Express LLC) responsible for financing, designing, constructing and operating the project, including selection and management of design-build contractor.

VDOT responsible for required environmental (NEPA) approvals, regulatory (FHWA) approvals, and management oversight of Transurban’s responsibilities.

Development Framework Agreement executed in November 2015 outlines the process and schedule for completing project development activities.

VDOT approval of Transurban proposed commercial terms required to advance the project.
Approximately 8 miles between Turkeycock Run (end of current 95 Express Lanes) and 14th Street Bridge

- Portions in Arlington County, City of Alexandria and Fairfax County
- Some project elements (signage and ITS) will be located in Washington, DC
- Majority of work within existing VDOT rights-of-way
**PROJECT SCOPE**

- Reconfiguration and reconstruction of two existing HOV Lanes to three HOT lanes, including traffic control, pavement modifications, structures, signage, pavement markings and lighting.
PROJECT SCOPE

- Modifications and operational improvements to the Eads Street interchange and the northern terminus transition area
### PROJECT SCOPE

- No impact to most interchanges
- New or modified soundwalls at approved locations along the corridor

<table>
<thead>
<tr>
<th>Access Points</th>
<th>Existing Access</th>
<th>Future Access</th>
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</thead>
<tbody>
<tr>
<td>I-395 North</td>
<td>Full entry/exit between HOV lanes, regular lanes and 95 Express Lanes</td>
<td>No changes to on/off ramps; HOT access</td>
</tr>
<tr>
<td>Seminary Road – North Facing Ramp</td>
<td>AM northbound/PM southbound access</td>
<td>No changes to interchange or on/off ramps; HOT access</td>
</tr>
<tr>
<td>Seminary Road – South Facing Ramp</td>
<td>HOV only at all times</td>
<td>HOV only at all times</td>
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<tr>
<td>(Opening 2016)</td>
<td></td>
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<tr>
<td>Shirlington Road – North Facing Ramp</td>
<td>AM northbound/PM southbound access</td>
<td>No changes to interchange or on/off ramps; HOT access</td>
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<tr>
<td>Washington Blvd (Rte. 27) – North Facing Ramp</td>
<td>AM northbound/PM southbound</td>
<td>No changes to interchange or on/off ramps; HOT access</td>
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<tr>
<td>Eads Street – South Facing Ramp</td>
<td>AM northbound/PM southbound</td>
<td>Capacity and operational improvements</td>
</tr>
</tbody>
</table>
Lane use management signals, variable speed limit signs, dynamic message signs, microwave vehicle detectors, closed circuit television cameras, automated incident detectors, and supporting infrastructure.

- Installation of electronic toll collection system (Tolling System) and tolling equipment, including gantries, and supporting infrastructure.

PROJECT SCOPE

Installation of a comprehensive Tolling and Traffic Management System (TTMS)
POTENTIAL SCOPE OPTION

Duke to Edsall Southbound Widening

- Additional General Purpose lane between Route 236 (Duke St.) and Route 648 (Edsall Rd.)
- Modifications to Duke St. and Edsall Rd. interchanges; new entry ramp from Duke St. to southbound 395
TTMS COMPONENTS: Roadside Equipment, Tolling, Network, and Operations Center. Accountability for delivery is split between the Design-Builder and Transurban.
**TTMS ROLES AND RESPONSIBILITIES**

**Design-Builder Responsibilities**

- Designer of Record and have overall responsibility for management and delivery of entire project, including TTMS.
- Ensuring all TTMS work fully incorporated and integrated into overall project schedule.
- Interface management necessary to ensure that the civil and TTMS work are properly coordinated.
- Design, supply and construction of all civil works necessary installation of ETC and TMS equipment.
- Design, supply, installation and on-site testing of TMS Roadside Equipment, including dynamic messaging signage, dynamic pricing signage, traffic sensors and detectors, CCTV cameras, automated incident detectors, lane control systems equipment and signage, and variable speed limit signage.
- Design, procurement, installation, and commissioning of fiber optic communications backbone along entire project length and connections to Operations Center.
- Design, procurement, installation, and commissioning of all power and communications cabling and network equipment deemed necessary to support tolling and TMS equipment and facilities.
Specific and limited responsibilities related to provision, installation, and commissioning of ETC and TMS subsystems.

Provide performance requirements and specifications for ETC and TMS subsystems (including associated roadside equipment) to the Design-Builder.

Design, supply, installation and commissioning of ETC Roadside Equipment, and integrating ETC Roadside Equipment with Back Office System (BOS) and the Express Lanes Operations Center.

Supply, installation, and testing of the ETC tolling equipment at each tolling point in accordance with the final roadway and tolling system design.

Supply, installation and testing of ETC tolling equipment at the technical shelters and/or roadside cabinets installed at each tolling point.

Final commissioning of TMS Roadside Equipment, and integrating TMS Roadside Equipment with the Express Lanes Operations Center and other subsystems.
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TRANSURBAN SAFETY APPROACH

- Continuously improving safety management system and safety culture
- Eliminating or minimizing hazards and risks
- Training and support to identify and eliminate or control hazards
- Raising awareness of relevant legislation and other requirements
- Enhancing our communication, consultation and coordination
- Setting objectives and measurable targets
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**Transurban Construction Safety Record**

**495 and 95 Express Lanes Projects**

- Total Hours Worked = 13,364,226
- Lost Time Incidents = 2
- Lost Work Day Incident Rate = 0.03
- OSHA Recordable Injuries = 41
- OSHA Recordable Incident Rate = 0.61
- Continuous Hours without Lost Time Injury = 9,824,436
PROJECT SAFETY GOALS

- Lost Time Incident Rate: ZERO
- OSHA Recordable Incident Rate: < 1.00
- Environmental Notice of Violations: ZERO
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PROCUREMENT PLAN

- Two-stage procurement process (RFQ and RFP)
- Shortlisting to 3 teams in RFQ phase
- Collaborative meetings during RFP phase
- Selection based on “best-value” determination
- Fixed price, lump-sum design-build contract
### ANTICIPATED PROCUREMENT SCHEDULE

<table>
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<tr>
<th>Activity</th>
<th>Expected Date</th>
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<tr>
<td>RFQ Issued</td>
<td>May 2016</td>
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<tr>
<td>RFP Issued</td>
<td>July 2016</td>
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<tr>
<td>Select Contractor</td>
<td>December 2016</td>
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<tr>
<td>Contract Award and NTP</td>
<td>March 2017</td>
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</table>
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**ANTICIPATED CONTRACTING STRUCTURE**

- VDOT
- Concessionaire
  - Design-Build Agreement
  - TTMS Agreement
- Design-Builder: TBD
- TTMS
  - Interface Agreement

Comprehensive Agreement
DESIGN-BUILDER REQUIRED CAPABILITIES

- Grading and Earthwork
- Roadway and Pavement
- Bridge, Structures and Retaining Walls
- Drainage and Storm water Management
- Roadway Signage and Pavement Markings
- Roadway Lighting
- Soundwall Analysis, Design and Construction
- Safety Devices, Traffic Barriers and Fencing
- Bicycle and Pedestrian Facilities
- Permitting
- Traffic Management System Devices and Equipment
- Tolling System Devices and Equipment
- Traffic Signals
- Communications Networks
- MOT and Transportation Management Plans
- Geotechnical Investigations
- Utility Relocation and New Service Connections
- Electrical Power Distribution
- Right-of-Way Acquisition
- Environmental Management
- Quality Management
- Safety Management
Financial capacity and technical capability to undertake a project of this size and complexity

Demonstrated capability and experience to deliver certainty on schedule, cost and quality

Strong safety culture and performance history

Proven strategies to deliver optimum value

Demonstrated history of identifying, managing and reducing risk for all participants.
TEAM

- Prime contractor(s) and designer experience on design-build highway construction projects of similar scale, scope, and complexity

- Relevant experience emphasizing successful delivery in safety, maintenance of traffic, tolling and ITS

- VDOT prequalification and license requirements
ANTICIPATED RFQ CRITERIA

PEOPLE

- Relevant experience and skills
- Demonstrated exceptional performance to deliver on project objectives and commitments
- Maturity to work collaboratively to deliver an integrated solution
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**ANTICIPATED RFQ CRITERIA**

**SAFETY PERFORMANCE**
- Current EMR of less than or equal to 1.0
- Current OSHA Recordable Injury Rate less than or equal to 3.0
- Current Lost Time Injury Rate less than or equal to 1.7

**OTHER SAFETY FACTORS**
- Regulatory HSE related violations in past five years (OSHA/EPA etc.)
- Employee fatalities or hospitalizations in past five years
- Company’s light duty policy
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**ANTICIPATED RFQ CRITERIA**

**INNOVATION**

- Use of innovative design and construction methods on similar projects that delivered added value for owners and users

**SUSTAINABILITY**

- Partnerships with communities and stakeholders that improved project delivery
- Reductions in environmental impacts
- Use of award-winning sustainability solutions on similar projects
For further information or to provide feedback, please contact:

Sean Mallipudi – US Procurement Manager
(571) 527-8395
SMallipudi@transurban.com
395 Express Lanes Industry Outreach

NEXT STEPS

- Finalize and Issue RFQ
- Preliminary Design and Technical Requirements
- Shortlist Teams for RFP
- Finalize and Issue RFP
QUESTIONS?
# Meeting Attendance

**Meeting:** 395 Express Lanes Design-Build Procurement Industry Outreach  
**Location:** VDOT NOVA District Office  
**Date:** March 23, 2016  
**Time:** 1:00 pm

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