OID Engineering Services Industry Forum

I-16 Widening From I-95 to I-516 (PI 0012757)

I-16 @ I-95 Interchange Reconstruction (PI 0012758)

I-16 @ SR 307 / Dean Forest Road Diverging Diamond Interchange (PI 0013727)

July 10, 2017
Disclaimer Statement

At this meeting the Department will provide information about the project’s delivery goals, anticipated scope, anticipated Design-Build procurement process, and potential risks. Participants will be encouraged to ask questions during this meeting; however, any information provided by the Department shall be considered as informational only and is subject to change.
Today’s Agenda

1. Innovative Delivery and MMIP Overview – Darryl VanMeter
2. I-16/95 Corridor Project Overview – Andrew Hoenig
   • I-16 Widening (From I-95 to I-516)
   • I-16 @ I-95 Interchange Reconstruction
   • I-16 @ SR 307 / Dean Forest Road Diverging Diamond
3. GEC Procurement – Darryl VanMeter
   • GEC Roles
   • Disadvantaged Business Enterprise (DBE)
   • Opportunity Conflicts
4. Open Discussion - All
Innovative Delivery and Major Mobility Investment Program

Darryl D. VanMeter, P.E.
Assistant P3 Division Director / State Innovative Delivery Administrator
Innovative Delivery Statewide

Current P3 projects:
• Northwest Corridor
• 285/400 Interchange

Existing DB projects:
• I-85 Express Lanes extension
• 53 statewide bridge replacement projects
• $2B in construction

11 MMIP projects
• $11 Billion
• All in construction by 2026
Innovative Delivery Successes

- I-75 – Northwest Corridor Express Lanes
- I-85 Express Lanes Extension
- SR 47 at Little River Bridge Replacement
- I-285/SR 400 Interchange
- I-75 South Metro Express Lanes
- Freight Weigh in Motion Projects
11 MMIP Projects

3 Major Interchange Projects
4 Major Express Lanes Projects
3 Major Interstate Widening Projects
1 Commercial Vehicle Lanes Project
MMIP Projects
Map

Interchange Reconstruction:
1. I-16/I-95 Interchange
2. I-285/I-20 West Interchange
3. I-285/I-20 East Interchange

Express Lanes:
4. Revive 285 Express Lanes
   I-75 to I-85
5. SR 400 Express Lanes:
   I-285 to McFarland Rd.
6. I-285 East Wall Express Lanes
   I-85 to I-20
7. I-285 West Wall Express Lanes
   I-20 to I-75

Interstate Widening:
8. I-85 North Widening
   Hamilton Mill Rd. to SR 211
9. I-16 Widening
   I-95 to I-516
10. I-85 North Widening
    SR 211 to US 129

Commercial Vehicle Lanes:
11. Commercial Vehicle Lanes
    SR 155 to I-475
MMIP Schedule

Interchange Reconstruction:
- I-16/I-95
- I-285/I-20 East
- I-285/I-20 West

Express Lanes:
- Revive 285
  - I-75 to I-85
- SR 400
  - I-285 to McFarland Rd.
- I-285 East Wall
  - I-85 to I-20
- I-285 West Wall
  - I-20 to I-75

Interstate Widening:
- I-85 North
  - Hamilton Mill Rd. to SR 211
- I-16
  - I-95 to I-516
- I-85 North
  - SR 211 to US 129

Commercial Vehicle Lanes:
- I-75
  - SR 155 to I-475

06/16/2017 | Dates represented are calendar years

Legend:
- Engineering, Environmental Design, Right-of-Way
- Final Design, Right-of-Way, Construction
- Est. Construction Start

The Design-Build process compresses project schedules by overlapping activities in the design and construction phases.
Projects Overview

Andrew Hoenig, P.E.
Senior Design-Build Project Manager
Projects Overview

- Design-Build delivery
- SRTA partnership allows for multi-year contracting
- Goals:
  - Improve traffic flow and safety at the busy I-16/I-95 interchange
  - Widen I-16 from 4-6 lanes from I-95 to I-516 to ease congestion
  - Reconstruct Dean Forest Road interchange
- Estimated Total Programmatic Cost: $350M
I-16 @ I-95 Interchange Reconstruction

• Reconstruct the existing I-16 at I-95 interchange in Chatham County, at the gateway to Savannah

• Proposed improvements include:
  • Replacement of two loop ramps with flyover bridges:
    • I-95 Southbound to I-16 Eastbound
    • I-16 Westbound to I-95 Southbound
  • Construction of a collector-distributor (CD) lane on I-95 northbound to separate the vehicles exiting and entering from I-16
  • New interchange lighting
  • Intelligent Transportation System (ITS) technology to link to Georgia NaviGAtor
I-16 @ I-95 Interchange
I-16 Widening Project

- Widen I-16 from 4-6 lanes from I-95 to I-516
  - Add one additional general-purpose lane in each direction
  - Construct the new lanes by widening to the existing inside, grassed median
- Additional scope includes:
  - Reconstruction of 5 bridges
  - Roadway drainage improvements
  - Intelligent Transportation System (ITS) technology to link to Georgia NaviGAtor
I-16 Widening Typical Section

I-16 LOOKING EAST
FROM JUST EAST OF I-95 TO SR 307 (DEAN FOREST)
I-16 Widening Typical Section

I-16
LOOKING EAST
FROM SR 307 (DEAN FOREST) TO JUST WEST OF I-516
Dean Forest Road Interchange

- Replace existing bridge with a split bridge design (two bridges, each with three lanes)
- Potential for diverging diamond interchange (DDI) design
- Construct a shared-use trail, adding an additional bridge width on one of the bridges
# Projects Schedule

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GEC Procurement Overview

Darryl VanMeter, P.E.
Assistant P3 Division Director / State Innovative Delivery Administrator
## MMIP Consultant Opportunities

### Innovative Delivery

<table>
<thead>
<tr>
<th>Program Management Consultant (PMC)</th>
<th>Public Notice Advertisement (PNA)</th>
<th>Request for Qualifications (RFQ)</th>
<th>Awarded</th>
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<tr>
<td>Programmatic General Engineering Consultant (GEC)</td>
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<td>Programmatic Construction Engineering &amp; Inspection (CEI)</td>
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<td>Right-of-Way Service Provider</td>
<td>October 2017</td>
<td>November 2017</td>
<td>Spring 2018</td>
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### Major Mobility Investment Program

<table>
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<tr>
<th>Project</th>
<th>Public Notice Advertisement (PNA)</th>
<th>Request for Qualifications (RFQ)</th>
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<td>I-85 Widening</td>
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<td>SR 400 Express Lanes</td>
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<td>I-285 East Wall Express Lanes</td>
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<td>16/95 Interchange and Widening</td>
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<td>Winter 2017</td>
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<td>I-285 West Wall Express Lanes</td>
<td>November 2017</td>
<td>January 2018</td>
<td>Spring 2018</td>
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<tr>
<td>I-285/I-20 West Interchange</td>
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<td>January 2018</td>
<td>Spring 2018</td>
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<td>I-75 Commercial Vehicle Lanes</td>
<td>November 2017</td>
<td>January 2018</td>
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<td>Revive 285</td>
<td>Summer 2021</td>
<td>Summer 2021</td>
<td>Spring 2022</td>
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GEC Roles & Responsibilities

Pre-Let – Underway by Arcadis
- Traffic Studies & Analyses
- Concept
- Survey Database
- Environmental/Public Involvement
- Costing Plans
- Estimating
- Drainage studies
- Procurement Support – Technical

Post-Let
- Submittal Reviews
- Right-of-Way Reviews
- Utilities
- Environmental Re-Evaluation
  - Permit Reviews
- Owner’s Verification Firm (OVF)
- Schedule Reviews
- Technical Validation
- Co-location
Area Class for Prime Engineer

The **Prime Consultant** **MUST** be prequalified by GDOT in the area class listed below:

<table>
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<tr>
<th>Number</th>
<th>Area Class</th>
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<td>3.05</td>
<td><strong>Multi-lane Urban Interstate Limited Access Design</strong></td>
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## Anticipated Area Classes for Subconsultants

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<tr>
<th>Section</th>
<th>Area Class</th>
<th>Description</th>
<th>3.x</th>
<th>Description</th>
<th>5.x</th>
<th>6.x</th>
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<tbody>
<tr>
<td>1.06(a)</td>
<td>NEPA</td>
<td>Two-Lane or Multi-Lane Rural Roadway Design</td>
<td>3.01</td>
<td>Bicycle and Pedestrian Facility Design</td>
<td>3.13</td>
<td>6.01(b)</td>
<td>Geological and Geophysical Studies</td>
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<td>1.06(b)</td>
<td>History</td>
<td>Two-Lane or Multi-Lane Urban Roadway Design</td>
<td>3.02</td>
<td>Highway Lighting</td>
<td>3.15</td>
<td>6.02</td>
<td>Bridge Foundation Studies</td>
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<td>1.06(c)</td>
<td>Air Quality</td>
<td>Multi-Lane Urban Roadway Widening and Reconstruction</td>
<td>3.03</td>
<td>Minor Bridge and Miscellaneous Highway Structure</td>
<td>4.01(a or b)</td>
<td>6.03</td>
<td>Hydraulic and Hydrologic Studies (Soils and Foundation)</td>
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<td>1.06(d)</td>
<td>Noise</td>
<td>Multi-Lane Rural Interstate Limited Access Design</td>
<td>3.04</td>
<td>Major Bridge Design</td>
<td>4.02</td>
<td>6.04(a)</td>
<td>Laboratory Materials Testing</td>
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<tr>
<td>1.06(e)</td>
<td>Ecology</td>
<td>Multi-Lane Urban Interstate Limited Access Design</td>
<td>3.05</td>
<td>Hydraulic and Hydrological Studies (Bridges)</td>
<td>4.04</td>
<td>6.04(b)</td>
<td>Field Testing of Roadway Construction Materials</td>
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<td>1.06(f)</td>
<td>Archaeology</td>
<td>Traffic Operations Studies</td>
<td>3.06</td>
<td>Land Surveying</td>
<td>5.01</td>
<td>6.05</td>
<td>Hazardous Waste Site Assessment Studies</td>
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<td>1.06(g)</td>
<td>Freshwater Aquatic Surveys</td>
<td>Traffic Operations Design</td>
<td>3.07</td>
<td>Engineering Surveying</td>
<td>5.02</td>
<td>8.01</td>
<td>Construction Engineering and Supervision</td>
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<td>1.07</td>
<td>Attitude Opinion, and Community Value Studies (Public Involvement)</td>
<td>Traffic Control Systems Analysis, Design and Implementation</td>
<td>3.09</td>
<td>Geodetic Surveying</td>
<td>5.03</td>
<td>9.01</td>
<td>Erosion, Sedimentation, and Pollution Control and Plan Preparation</td>
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<tr>
<td>1.09</td>
<td>Location Studies</td>
<td>Utility Coordination</td>
<td>3.10</td>
<td>Subsurface Utility Engineering</td>
<td>5.08</td>
<td>9.03</td>
<td>Field Inspections for Compliance of Erosion and Sedimentation Control Device Installation</td>
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<td>1.10</td>
<td>Traffic Analysis</td>
<td>Hydraulic and Hydrological Studies (Roadway)</td>
<td>3.12</td>
<td>Soil Survey Studies</td>
<td>6.01(a)</td>
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GEC Key Team Leads

Post-Let Services
   1. Roadway Lead
   2. Structural Lead
   3. Environmental Lead
   4. Estimating Lead
   5. Utilities Lead
   6. Survey Lead
   7. Geotechnical Lead
   8. Traffic Operations Lead

   9. Project Controls Lead
   10. Construction Lead
   11. OVF Team
      • Project Resident Engineer
      • Assistant Project Resident Engineer
      • Roadway Project Engineer
      • Bridge Project Engineer
DBE Goal and Mentoring Program

• Anticipated 15% DBE Goal
• RFQ may require GEC Mentoring Program implementation plan
Opportunity Conflicts

• The Pre-Let GEC on the projects **cannot** participate with a DB Team on the same projects

• The Post-Let GEC on the projects **cannot** participate with a DB Team on the same projects
# Procurement Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tr>
<td>GDOT Issues Public Notice Advertisement</td>
<td>6/16/2017</td>
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<tr>
<td><strong>Industry Forum</strong></td>
<td>7/10/2017</td>
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<tr>
<td>GDOT Issues Request for Qualifications (RFQ)</td>
<td>7/17/2017</td>
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<tr>
<td>Deadline for Submission of Statement of Qualifications (SOQ)</td>
<td>8/16/2017</td>
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<tr>
<td>Industry Forum for Design-Build Procurement</td>
<td>October 2017</td>
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<tr>
<td>GDOT Selects GEC</td>
<td>November 2017</td>
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<tr>
<td>GDOT Issues the Request for Qualifications (RFQ) for the Design-Build Procurement</td>
<td>November 2017</td>
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</table>
Questions & Answers

Program Information and Contract Opportunities:
www.dot.ga.gov/PS/Innovative

Questions:
Email: OIDGEC@dot.ga.gov