UPDATE ON THE GEORGE WASHINGTON BRIDGE REHABILITATION PROGRAM

Capital, Planning, Execution, & Asset Management Committee
March 24, 2016
George Washington Bridge 10 Year Capital Plan

- George Washington Bridge built in 1931
- Vehicular traffic – 100M vehicles per year generating $650M revenue
- 11 major projects will be scheduled from 2016 to 2025, plus other smaller projects
High Priority GWB Projects Overall Schedule

GEORGE WASHINGTON BRIDGE - CONSTRUCTION PROGRAM PROJECTS

1) Lower Level Priority Steel & Concrete Repairs, Catwalks & Platform Travelers
2) Pavement Replacement of Lower Level East Bound Main Span, Approach & Ramps
3) Replacement of the PIP Helix & Rehabilitation of Approach Spans Over NJ Anchorage and Hudson Terrace
4) Suspender Rope Replacement and Main Cable Rehabilitation
5) TME Rehabilitation of Median Barriers and Related Safety Enhancements
6) Rehabilitation of 178th & 179th Street Ramps, Bus Ramps, and Bus Turnaround
7) Rehabilitation of Main Span Upper Level Structural Steel - Phase II
8) GWB Repave Eastbound Upper Level
9) Rehabilitation of Center Ave Bridge and Lemoine Ave Bridge
10) Rehabilitation of Structural Steel and Paint Underside Lower Level
11) Rehabilitation of TME Overpasses - Phase 1

TOTAL $1.9B (Approx. $1.4B Authorized to Date)
Key Program Risks and the Mitigation Strategies

• Program presents an unprecedented amount of large projects in construction at the same time.

• Delivery Strategy to include:
  • Staging and Sequencing Coordination
  • Integrated Project Milestones in Contracts
  • Stakeholder Engagement
  • Alignment of Resources
Replacement of PIP Helix and Rehabilitation of Approach Spans over Hudson Terrace

Scope of Work

• Replacement of the deck, superstructure, and substructure
• Construction of a temporary detour structure to maintain traffic flow
• Rehabilitation of NJ Upper Level approach decks

Recommended Award: Judlau Contractors, Inc.
Estimated Cost: $67.5M
Scope of Work

- Structural Repairs
- Seismic Retrofit
- Roadway and under deck Lighting Replacement
- Turn Improvements at Center Avenue
- Replace water main under Center Avenue
- Replace concrete girders of spans for Center Avenue
### Project Cost/Schedule

#### Rehab. of Center and Lemoine Avenue Bridges

**Project Cost:** $90.9 M

- Construction /Design/Build: $59.7 M
- Planning/engineering/support: $13.6 M
  - Staff Costs $5.2 M
  - Consultant Costs $8.4 M
- Contingency $5.0 M
- Agency Allocation $12.6 M
  
  *(Insurance, Administration, Financial expenses)*

**Construction Duration:** Q4 2017 – Q2 2022

**Offsets:** $25.0 M offset needed
- GWB - Lower Level Priority Steel And Concrete Repairs, Catwalks And Platform Travelers ($18.7 M)
- GWB - Replacement Of The Palisades Interstate Parkway Helix($6.3 M)
# Economic Impact

<table>
<thead>
<tr>
<th></th>
<th>PIP Helix and NJ Spans</th>
<th>Center and Lemoine Avenue</th>
<th>10 – Year Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job-Years</td>
<td>530</td>
<td>440</td>
<td>11,190</td>
</tr>
<tr>
<td>Wages</td>
<td>$35M</td>
<td>$30M</td>
<td>$768M</td>
</tr>
<tr>
<td>Economic Activity</td>
<td>$149M</td>
<td>$142M</td>
<td>$3,258M</td>
</tr>
</tbody>
</table>
Next Steps

• Outreach Plan: “Restoring the George”
  • NY/NJ/NYC DOTs, and NJ Turnpike
  • Palisades Interstate Park Commission
  • Local Municipalities
  • Community Groups
• Bid and Award Suspender Ropes contract