Woodrow Wilson Bridge Project
July 17, 2007

Jim Ruddell, PE
Construction Manager
Potomac Crossing Consultants
Opening Day Celebration
May 18, 2006

From Left to Right
Mayor Anthony Williams, District of Columbia,
Governor Timothy Kaine, Virginia,
Governor Robert Ehrlich, Maryland
and Secretary Norman Mineta, U.S. DOT

Blue Angels Flying over the Wilson Bridge
Traffic on the new Wilson Bridge (July 17, 2006)
Demolition of the steel girders (August 28, 2006)
Existing Woodrow Wilson Bridge

Opened 1961

Anticipated Design Year Traffic Volume: 75,000

6 Lanes: Very narrow shoulders

Current Traffic Volume: 195,000

Anticipated Year 2020 Traffic Volume: 295,000
Why This Project Is Important

Safety

. . . has nearly twice the accident rate of similar highways in Maryland and Virginia as well as the American Legion Bridge . . .

Traffic Volume

. . . is burdened with seven hours of congestion daily and frequent several-mile backups . . .

Wear and tear on the 40-year old bridge requires the facility to be replaced in the near term

At least 1.3% ($58 Billion) of trucked GDP crossed the Bridge in 1993.
Partnership
ProjectLimits

7.5-mile corridor on I-95/Capital Beltway from Telegraph Rd. Interchg in VA to MD 210 Interchange
General Engineering Consultant
Potomac Crossing Consultants

General Engineering Consultant (GEC) Joint Venture

- Parsons Brinckerhoff (Lead) 36%
- URS Corporation 32%
- Rummel Klepper & Kahl 32%
- 13 Active Subconsultants (8 DBE’s)
Planning Process

1988 – Study initiated by federal government, Virginia, Maryland, District of Columbia

Early 1990’s – Traditional project selection process fails in face of opposition from local jurisdictions

1992 – Inclusive project effort launched. De facto selection panel created, with 9 of 14 members representing local jurisdictions

1992-1996 – Panel Studies, with public input at every step
Planning Process

1996 - 12-lane facility and reconstruction of 4 adjacent interchanges is recommended

1998 - Bridge design competition

2000 - Final Supplemental Environmental Impact Statement completed
Artist Rendering of Finished Bridge

... the winning design, selected by a jury from 7 entries ....
Significant Milestones

2000 – Begin construction with river dredging

2001 – Begin bridge foundations, VA & MD soil improvement and MD interchange work

2003 – Begin bridge superstructure and VA & MD tie-in projects

Mid 2006 – Complete 1st new bridge, switch traffic, demolish old bridge

Mid 2008 – Complete 2nd new bridge and bulk of US Route 1, I-295 and MD 210 Interchanges

2012 – Complete Telegraph Road Interchange
Opening Day Celebration
May 18, 2006

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### Woodrow Wilson Bridge Project

<table>
<thead>
<tr>
<th>BR-2 Foundations</th>
<th>BR-3A Bascule Spans</th>
<th>BR-3B Virginia Approach Spans</th>
<th>BR-3C Maryland Approach Spans</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PG 3405173 (MDE - N/A)</strong></td>
<td><strong>PG 3451517 (MDE 01-BF-0284)</strong></td>
<td><strong>PG 3451517 (MDE 02-EX-0117)</strong></td>
<td><strong>PG 5115173 (MDE N/A)</strong></td>
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<td>ADVANCE: 8-29-03</td>
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<td>ADVERSE: 10-19-03</td>
<td>ADVANCE: 1-6-05</td>
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<td>OPEN: 8-21-03</td>
<td>LED: 2-28-05</td>
<td>OPEN: 2-28-05</td>
<td>OPEN: 1-4-05</td>
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<tr>
<td>CONTRACTOR: FREEDMAN &amp; CO</td>
<td>CONTRACTOR: FREEDMAN &amp; CO</td>
<td>CONTRACTOR: GRANTSCON</td>
<td>CONTRACTOR: RAMSEY / AMERICAN BRIDGE &amp; REINFORCEMENT</td>
</tr>
</tbody>
</table>

- **Construction Budget:** $145M
- **Completed:**
  - 3-10-01 BR-1 (Dredging)
  - 7-1-03 BR-2 (Foundations)
Dredging Near Existing Bridge

340,000 Cubic Yards of Material = 145 Barges
Dredge disposal site at Weanack, VA

Dredge Disposal Facts
- Site is 170 miles from bridge
- Project pays property owner $4.90/CY “tipping fee”
- Restores a strip-mined site to productive farmland

Corn growing in former sand and gravel pit
Graphic of typical foundation
River work for the foundations contact (looking towards MD)

Note: Completed pedestals (white) in background
Completed pedestals (looking towards MD)
Note: Existing bridge to the left
• Bascule Spans: 96% Complete
• Construction Budget: $186M
• Completion Date: August 2008
View of the Bascule Span operations.
One of two spans in the open position (2-8-06).
Installation of the Inner Loop structural steel for the Bascule contract work
Virginia Approach: 75% Complete
Construction Budget: $115M
Completion Date: August 2008
Graphic of new bridge in Jones Point Park, Alexandria, VA
Aerial view of the Virginia Approach Spans
Jones Point Park, Alexandria, VA.
View iron workers setting steel in Jones Point Park, Alexandria, VA. Contractor is scheduled to complete the steel by early Fall 2007.
**Woodrow Wilson Bridge Project**

** Maryland Approach: 85% Complete**

** Construction Budget: $191M**

** Completion Date: August 2008**
Graphic of Maryland Approach Spans
View of the outer loop for the Maryland Approach Spans, Potomac River
View of the steel beams near the Maryland abutment (where bridge meets land). First bridge is to the left.
I-295 Interchange

Contracts: 4
Contracts value: $179M
Start: August 2001
Est. Completion: June 2008
Percent Complete: 80%

Proposed I-95 / I-295 Interchange

Legend
- New Roadway
- New Bridge

February 2005

Not to Scale

Woodrow Wilson Bridge Project

Display Prepared By Patrick Blasing Consulting

Woodrow Wilson Bridge

Potomac River

Ocean Cove

Roxie Island

Huntington Eskewer

National Harbor and
Blue Suede Developments

10020

10010

5000
View of the I-295 Interchange work
Construction of a retaining wall for the bicycle/pedestrian path near the new outer loop bridge (opened in mid-2006)
Project Limits

- Telegraph Road
- US Route 1
- River Crossing
- I-295
- MD-210
New MD 210 Interchange

Contracts: 3
Contracts value: $125M
Start: February 2004
Est. Completion: June 2007
Percent Complete: 65%

Proposed I-95 / MD 210 Interchange

Legend
New Roadway
New Bridge

Not to Scale
View looking east at the construction of the new Oxon Hill Road underpass. MD 210 (bridge structure) and Oxon Hill Road will be relocated to this area, (Fall 2007).
Project Limits

Telegraph Road  US Route 1  River Crossing  I-295  MD-210
Route 1 Interchange

Contracts: 6
Contracts value: $275M
Start: August 2000
Est. Completion: June 2009
Percent Complete: 78%
Soil cement auger operating near the Telegraph Road and US Route 1 Interchanges, Virginia
Demolition of Hunting Tower
Completed

February 2003

March 2003
Office buildings located in the right of way of the future wider roadway

Constructing the new S. Washington Street Deck
View looking north at the U.S. Route 1 Interchange
Telegraph Road Interchange

Contracts: 3
Contracts value: $159M
Est. Start: March 2004
Est. Completion: January 2012
Percent Complete: 13%
Environmental Mitigation

Contracts: 15
Contracts value: $20.78M
Start: September 2002
Est. Completion: June 2009
Percent Complete: 58%
Building Green: Efforts to Improve Natural Environment

Habitat Preservation
Wetland creation, enhancement or preservation
River grass plantation
Reforestation
Stream restoration
Maryland Mitigation Contracts

Rock Creek Fish Blockage Removal
Washington D.C.

Before

After
Virginia Mitigation Contracts

Silver Property Tidal Wetland
Fredericksburg, VA
Financial Overview

Initial Financial Plan Approved in Sept. 2001
• Total Project Budget = $2.442 Billion

2006 Update Approved in February 2007
• Total Project Budget = $2.476 Billion

Expenditures through March 2007 = $1,684M
Financial Overview

Total Project Funds = $2.476 Billion

Special Federal Funds
- Virginia*: $587 Million
- Maryland*: $329 Million
- District of Columbia: $16 Million

*$ From various state and/or regular federal funding sources
## Contract Performance

**35 Projects Advertised and Bid to Date**
- **$1.257 Billion in Contracts Awarded to Date**
- **$144 Million under budget**

**Bids are Averaging 10.3% Below Budget**

<table>
<thead>
<tr>
<th>Contracts</th>
<th># of contracts</th>
<th>Project Estimate</th>
<th>Award Amount</th>
<th>% Under Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Route 1 Construction Contracts</td>
<td>8</td>
<td>$303.57</td>
<td>$277.36</td>
<td>8.6%</td>
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<tr>
<td>Graph Road Construction Contracts</td>
<td>2</td>
<td>$17.58</td>
<td>$20.13</td>
<td>(14.5%)</td>
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<tr>
<td>Mitigation Contracts</td>
<td>4</td>
<td>$4.64</td>
<td>$3.41</td>
<td>26.5%</td>
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<tr>
<td>Crossing Construction Contracts</td>
<td>5</td>
<td>$732.18</td>
<td>$632.49</td>
<td>13.6%</td>
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<tr>
<td>Construction Contracts</td>
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<td>$191.46</td>
<td>$190.34</td>
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<tr>
<td>50 Construction Contracts</td>
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<td>$135.12</td>
<td>$119.03</td>
<td>11.9%</td>
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<tr>
<td>Mitigation Contracts</td>
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<td>$16.60</td>
<td>$14.50</td>
<td>12.7%</td>
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<td><strong>Totals</strong></td>
<td><strong>35</strong></td>
<td><strong>$1,401.15</strong></td>
<td><strong>$1,257.25</strong></td>
<td><strong>10.3%</strong></td>
</tr>
</tbody>
</table>
Coming Attraction:

The New Woodrow Wilson Bridge

Website: www.wilsonbridge.com
Financial Overview

Initial Financial Plan Approved in Sept. 2001

• Total Project Budget = $2.442 Billion

2002 Update Approved in March 2003

• Total Project Budget = $2.564 Billion

2003 Update Approved in March 2004

• Total Project Budget = $2.427 Billion

2004 Update Approved in February 2005

• Total Project Budget = $2.449 Billion

2005 Update Approved in April 2006

• Total Project Budget = $2.444 Billion

2006 Update Approved in February 2007

• Total Project Budget = $2.476 Billion

Expenditures through March 2007 = $1,684M
# Current Budget Snapshot

Total Project Budget = $2.476 Billion

- Virginia Responsible for $1.146 Billion
- Maryland Responsible for $1.315 Billion
- D.C. Responsible for $16 Million

<table>
<thead>
<tr>
<th>Section</th>
<th>Budget</th>
<th>Virginia</th>
<th>Maryland</th>
<th>DC</th>
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</thead>
<tbody>
<tr>
<td>River Crossing (BR)</td>
<td>$824M</td>
<td>$824M</td>
<td></td>
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<tr>
<td>I-295 Interchange (MA)</td>
<td>$300M</td>
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<td>MD210 Interchange (MB)</td>
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<td>Maryland Project-wide</td>
<td>$24M</td>
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<td>US1 Interchange (VA)</td>
<td>$604M</td>
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<td>Telegraph Road Int. (VB)</td>
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<td>Virginia Projectwide</td>
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<td>District of Columbia I-295</td>
<td>$16M</td>
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<td>$16M</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$2,476M</strong></td>
<td><strong>$1,145M</strong></td>
<td><strong>$1,315M</strong></td>
<td><strong>$16M</strong></td>
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<tr>
<td><strong>Effect of State Scope Transfers</strong></td>
<td><strong>($52M)</strong></td>
<td><strong>$52M</strong></td>
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<tr>
<td><strong>Total Attributable to Original Scope</strong></td>
<td><strong>$2,476M</strong></td>
<td><strong>$1,093M</strong></td>
<td><strong>$1,367M</strong></td>
<td><strong>$16M</strong></td>
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