Rt 29 Solutions Project Delivery Advisory Panel

April 27, 2017
Agenda item 1: Introductions:

Project Delivery Advisory Panel

VDOT Technical Team
**Agenda item 2: Interaction and Feedback**

**Live Streaming**

<table>
<thead>
<tr>
<th></th>
<th>Mar 16, 2017</th>
<th>Feb 16, 2017</th>
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<tr>
<td><strong>Unique Viewers:</strong></td>
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<td>30</td>
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<td><strong>Streams:</strong></td>
<td>20</td>
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<tr>
<td><strong>Average Minutes per stream:</strong></td>
<td>22</td>
<td>36</td>
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</tbody>
</table>
Rt 29 Solutions

Agenda item 2: Interaction and Feedback (continued)

For the period Mar 17, 2017 - Apr 24, 2017

Inbox email and phone calls: 8 emails and phone calls

• Email received concerning exiting Brown Auto onto Rt 29 SB. Can't see traffic coming from through lanes and must restrict turns to outside 2 lanes. Was in minor accident with a van.
• Email regarding a request to add a yield sign for WB Rio Road traffic to NB Route 29.
• Email that the website states that Route 29 will be widened to six lanes from Polo Grounds to Airport Road. Points out that Route 29 SB is only 2 lanes from Airport Road to Timberville Boulevard.
• Email stating that having only 2 through lanes in each direction at Rio creates a slight bottleneck and that a GSI at Hydraulic should have 3 through lanes.
Agenda item 2: Interaction and Feedback (continued)

For the period Mar 17, 2017 - Apr 24, 2017 (continued)

- Email questioning if the contractor is still on schedule for completing Route 29 Widening and Berkmar Extended before July 1 or if they will go until October.
- Contact from Forest Lakes HOA about replanting landscaping around the neighborhood sign at Ashwood Boulevard. Planting schedule has been provided to LANE-Corman.
- Received a phone call regarding a "drop off" from the asphalt at Ridgewood.
- Email received from property owner of Ridgewood (former motel) concerning the steepness of the entrance and if a turn lane would be constructed as part of the project.
Agenda item 2: Interaction and Feedback (continued)

For the period Mar 17, 2017 - Apr 24, 2017 (continued)

Hillsdale Extension 15 emails

- Email thanking City for traffic alerts
- Email requesting to be removed from email mailing list
- Email questioning if a rotary or roundabout will be designed at the exit from Whole Foods onto Hillsdale with follow-up suggestion about potentially making the existing exit an entrance
- Email requesting that the center yellow line be re-painted on Greenbrier and requesting that trash be picked up at Branchlands corner
- Email requesting an update on the assigned physical addresses for Seminole Square Shopping Center
- Email requesting information on upcoming scheduled work that might involve lane closures or traffic changes
- Email regarding insufficient flagging and temporary loss of parking spaces
Agenda item 2: Interaction and Feedback (continued)

For the period Mar 17, 2017 - Apr 27, 2017 (continued)

Hillsdale Extension (continued)

- Request for information regarding traffic impacts on a specific date for a planned event
- Request to add new business to detour sign and map
- Request to clean up litter
- Request for date when replacement parking spaces will be available
- Two emails thanking the City for monthly project updates
- Compliment on project administration
- Request from businesses to be able to place additional signage during construction
- Request for information about the construction of the roundabout
Agenda item 2: Interaction and Feedback (continued)

For the period Feb 13, 2017 - Mar 10, 2017 (continued)

Web Provide Input: 1 new postings

Project Hotline 844-220-5540: 0 emails and calls

- Comment stating that the GSI at Rio should have included three through lanes instead of two.
Agenda item 3: Report on Panel Feedback

Report on additional Lynchburg to DC train

Add Best Buy Ramp to accident data tracking

- Joel DeNunzio will provide in agenda item 8
Agenda item 4: Panel Feedback and Suggestions for Future Agenda Items

Open Discussion
# Agenda item 5: Construction Milestones

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<thead>
<tr>
<th>As of 4/27/2017</th>
<th>2016</th>
<th>2017</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>November</td>
<td>December</td>
</tr>
<tr>
<td>29 Widening</td>
<td>Waterline Relocation (95%) 100%</td>
<td>Construction Complete</td>
</tr>
<tr>
<td></td>
<td>Phase 4 Grading, Drainage, and Paving (75%) 99%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phase 6 and 7 Grading, Drainage, and Paving (60%) 70%</td>
<td></td>
</tr>
<tr>
<td>Berkmar</td>
<td>Roadway Construction South of River (90%) 95%</td>
<td>Construction Complete</td>
</tr>
<tr>
<td></td>
<td>Roadway Construction North of River (95%) 98%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Deck Construction 100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parapets, Abutment Slabs, and Railing (45%) 100%</td>
<td></td>
</tr>
<tr>
<td>Hillsdale</td>
<td>Partial Building Demolition 100%</td>
<td>Grading, Drainage, and Paving North of Greenbriar Drive (20%) 20%</td>
</tr>
<tr>
<td></td>
<td>Bridge Substructure (90%) 100%</td>
<td>Bridge Superstructure 20%</td>
</tr>
<tr>
<td></td>
<td>Retaining Wall-Pepsi (70%) 100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roadwork between Zan Rd. and Whole Foods (40%) 100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grading, Drainage, and Paving between Greenbriar Drive and Seminole Ct. (40%) 40%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roadwork between Zan Rd. and Whole Foods (40%) 100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grading, Drainage, and Paving in Seminole Ct. (10%) 20%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Greenbriar Signal Infra 0%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roundabout (N/A) 10%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction Complete</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seminole Court Signal 0%</td>
<td></td>
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</table>
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 /250 Interchange - Landscaping and wall staining update

- Landscaping complete with exception of fall bulbs
- Noise wall staining underway with a duration of approximately 4 weeks
- Wall staining schedule subject to weather
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening

Work this week

• Shared-use path grading
• Finalize Ridgewood entrance grading
• Phase 6 MOT sign installation and line striping
• Asphalt paving north of Hollymead and shared-use path
• Guardrail installations
• Water main lateral installations
• Entrance concrete at Ridgewood
• Fiberlight signal splicing
• Permanent seeding
Rt 29 Solutions

29 Widening Grade and Landscaping
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening (continued)

Significant lane closures this week (nighttime)

• Potential single lane nighttime closure
Agenda item 6: Rt 29 Solutions Project Updates (continued)
Rt 29 Widening (continued)

Work next two weeks
- NBL traffic shift (move to new right lane)
- Median grading
- Southern water main installation (future water main pipe)
- SBL median curb prep
- NB landscaping
- Complete water main and abandon existing water main
- Curb installation at Ashwood and Hollymead
- Ground-mounted sign foundation installation
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening (continued)

Anticipated significant upcoming lane closures (nighttime)
- Potential single lane nighttime closure
- Traffic switch to new right northbound lane, close left lane
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended

Work this week
- Excavate ponds and prep for bio-retention conversion
- Install pond liners
- Place and grade sidewalk and shared-use path stone
- Strip bridge west overhanges
- Complete bridge south terminal walls
- Place sidewalk concrete
- Install remaining bridge railings
- Paint east fascia girder
Berkmar Bridge looking north
Rt 29 Solutions

Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Significant lane closures this week

• Rio Mills Road will be closed to traffic 4/25 - 4/27 due to overhead bridge work
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Work next two weeks

- Continue excavating ponds and installing liners
- Install compost media in ponds
- Fine grading of shared-use path
- Epoxy coating bridge troughs
- Continue stripping scaffolding
- Intermediate asphalt paving and shared-use path asphalt
- Complete painting east fascia girder
- Begin painting west fascia girder
- Continue ground-mounted sign foundations
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Anticipated upcoming significant lane closures

• Rio Mills Road will be closed to traffic 5/1 - 5/3 and 5/8 - 5/10 due to overhead bridge work
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended

Work this week

• Dewater, undercut, and fill at Stormwater Management Basin at Greenbrier
• Lighting conduit installation
• Sidewalk and shared-use path prep between Zan and India
• Aggregate subbase installation from Pepsi to USPS
• Storm sewer installation
• Form and pour abutment B backwall
• Grading and fill placement at roundabout
• Curb and median installation at roundabout
• Line Drive sidewalk installation
• Begin setting bridge deck forms
Hillsdale Bridge looking north
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended (continued)

Significant lane closures this week

• Roundabout closure
• Flagging operations at Zan Road, Seminole Square
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended (continued)

Work next two weeks

- Undercut and fill at Storm Water Management Basin at Greenbrier
- Formwork for the retaining wall coping
- Storm sewer installations
- Installation of bridge deck forms
- Grading, curb, and median work at roundabout
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended (continued)

Anticipated upcoming significant lane closures

- Roundabout closure
- Flagging operations at Zan Road, Seminole Square, and Pepsi Place
## Agenda item 7: Budget Update

### Route 29 Solutions Budget Update as of April 27, 2017

<table>
<thead>
<tr>
<th>Construction Contracts</th>
<th>Original Construction Contract Value</th>
<th>Expended (Invoiced)</th>
<th>Approved Change Orders</th>
<th>Exposure (Anticipated COs)</th>
<th>Remaining CV</th>
<th>Total Anticipated Construction Expenditures at Completion</th>
<th>Total SYIP Allocations for Construction</th>
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<tr>
<td>Rt. 20 Solutions Design-Build (1)</td>
<td>$116,746,000</td>
<td>$116,343,903</td>
<td>$10,067,160</td>
<td>$1,309,000</td>
<td>$10,469,187</td>
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<td>$0</td>
<td>$-6,402,101</td>
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<td>Rt. 29/250 Interchange (2)</td>
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<td>$12,117,184</td>
<td>$168,283</td>
<td>$800,320</td>
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<td>Adaptive Signals</td>
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<td>$1,405,305</td>
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<td>$0</td>
<td>$0</td>
<td>$0</td>
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<td>Hillsdale Ext. (3)</td>
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<td>$5,013,177</td>
<td>$494,966</td>
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<td>Change from Feb</td>
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<td>$(8,049,217)</td>
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1. Rt. 20 Solutions Design-Build Exposure includes $1,300,000 potential incentive for overall DB program on-time completion.
2. Rt. 29/250 Interchange Exposure includes anticipated final payment.
3. The Hillsdale Construction Value includes a $104,964 City Utility betterment. Hillsdale Approved Change Orders and Anticipated Construction Expenditures at Completion include the $350,000 incentive and a $257,437 ACSA betterment.
Agenda item 8: Accident and injury update (Post-Rio GSI opening period)

Crashes

<table>
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<tr>
<th>Rio Road GSI crashes</th>
<th>Total Crashes</th>
<th>Total Injury Crashes</th>
<th>Severe Injuries</th>
<th>Minor Injuries</th>
<th>No Apparent Injury</th>
<th>No Injury</th>
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<td>13</td>
<td>1</td>
<td>18</td>
<td>9</td>
<td>81</td>
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<td>July 19 – Dec 31, 2013</td>
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<td>17</td>
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<td>20</td>
<td>5</td>
<td>105</td>
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<td>July 19 – Dec 31, 2014</td>
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<td>12</td>
<td>0</td>
<td>17</td>
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<td>17</td>
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<td>107</td>
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<tr>
<td>July 19 – Dec 31, 2016</td>
<td>32</td>
<td>5</td>
<td>1</td>
<td>6</td>
<td>1</td>
<td>68</td>
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Rio Crashes July 19 - December 31, 2016
32 Total Crashes, 5 Injury Crashes

Collision Type
- Rear End
- Angle
- Sideswipe - Same Direction
- Other
- Deer

Collision Type - December
- Rear End
- Angle
- Fixed Object - Off Road
Agenda item 8: Accident and injury update (Post-BBR opening period)

Crashes

<table>
<thead>
<tr>
<th>Best Buy crashes</th>
<th>Total Crashes</th>
<th>Total Injury Crashes</th>
<th>Severe Injuries</th>
<th>Minor Injuries</th>
<th>No Apparent Injury</th>
<th>No Injury</th>
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<td>10</td>
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<td>May 22 - Dec 31, 2012</td>
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<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>May 22 - Dec 31, 2013</td>
<td>8</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>May 22 - Dec 31, 2014</td>
<td>17</td>
<td>3</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>14</td>
</tr>
<tr>
<td>May 22 - Dec 31, 2016</td>
<td>9</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>8</td>
</tr>
</tbody>
</table>
Route 29/250 Ramp Crash Data
May 22 - December 31, 2011
12 Total Crashes, 2 Injury Crashes

Collision Type:
- Green: Rear End
- Blue: Angle
- Red: Sideswipe - Same Direction
Route 29/250 Ramp Crash Data
May 22 - December 31, 2012

10 Total Crashes, 1 Injury Crash

Collision Type
- Green: Rear End
- Blue: Angle
Route 29/250 Ramp Crash Data
May 22 - December 31, 2013
8 Total Crashes, 2 Injury Crashes

Collision Type
- Green: Rear End
- Yellow: Ped
- Blue: Angle
- Red: Sideswipe - Same Direction
Route 29/250 Ramp Crash Data
May 22 - December 31, 2014

17 Total Crashes, 3 Injury Crashes

Collision Type
- Green: Rear End
- Blue: Angle
- Red: Sideswipe - Same Direction
Route 29/250 Ramp Crash Data
May 22 - December 31, 2016

9 Total Crashes, 1 Injury Crash

Collision Type
- Rear End
- Angle
- Sideswipe - Same Direction
- Fixed Object - Off Road
Agenda item 9: Hillsdale Management Plan

- Critical analysis of project schedule updates.
  - Logic Changes, Float, Efficiencies, Start and completion dates of activities, etc…
- Weekly two week look-ahead schedules
- Daily meetings between Construction Manager and Contractor
- Weekly meetings with Designers, Construction Manager, Contractor
- Monthly progress meetings
- Pre-construction and pre-activity meetings for significant work items
Agenda item 10: New Business and Wrap Up

Agenda item 11: Adjourn
Rt 29 Solutions Project Delivery Advisory Panel

April 27, 2017