Rt 29 Solutions Project Delivery Advisory Panel

March 16, 2017
Agenda item 1: Introductions:

Project Delivery Advisory Panel

VDOT Technical Team
Agenda item 2: Interaction and Feedback

Live Streaming

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<tr>
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<th>Feb 16, 2017</th>
<th>Jan 19, 2017</th>
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<td>• Unique Viewers:</td>
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<td>• Average Minutes per stream:</td>
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Agenda item 2: Interaction and Feedback (continued)

For the period Feb 13, 2017 - Mar 10, 2017

Inbox email and phone calls: 11 emails and phone calls

- 1 suggested an eastern connector to Routes 616 and 22.
- 1 asked when street lights will be illuminated at Hollymead Town Center roundabout
- 1 Forest Lakes South homeowner commented about trash in the wooded area behind property
- 1 commented that traffic light timing on Route 29 from Polo Grounds to Hydraulic causes significant delays
- 1 suggested a yield sign on Rio Road West, turning north on Route 29
- 1 commented that contractors working on Seminole Trail/Rubin Lane are parking in driveway without permission
- 1 believes Berkmar landscaping plan is not adequate to offer privacy for home
Agenda item 2: Interaction and Feedback (continued)

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

• 1 commented that nightly closures of Ashwood Boulevard affects fire and rescue response times and noted that the message board does not provide dates as to how long closures will last
• 1 commented about hitting a large raised patch in the work zone on Route 29 north
• 1 noted that trees near Hollymead Townhouse Citizens Association homes have been removed and asked when the additional brush and trees on association’s property will be removed
• 1 inquired whether VDOT will adjust the grade in the road at the Berkmar Drive and Rio Road Road intersection; flashing yellow left turn is dangerous
Agenda item 2: Interaction and Feedback (continued)

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

Hillsdale Extension 10 emails

- 1 comment about speed of construction trucks
- 1 request for construction timeline regarding removal of shrubbery and signage at Hampton Inn
- 2 thanked the team for traffic alerts
- 1 request for “local traffic only” signs (Resolved with variable message signs.)
- 1 request that construction vehicles not use private parking lots for turnarounds
- 1 request for advance notice of on-street parking restrictions for an event at the senior center.
- 1 request for old street signs that have been removed.
- 1 request for traffic alerts.
- 1 request for construction update clarification.
Agenda item 2: Interaction and Feedback (continued)

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

Web Provide Input: No new postings

Project Hotline 844-220-5540: 4 emails and calls

- Hollymead Townhouse association asked if Lane-Corman will do additional clearing on their property
- Forest Lakes commented about construction litter
- The Efficiency Apts. on Rt. 29 NB asked for additional stone at their entrance
- Continued communications for entrance closures and detours at Hollymead Townhouse, Rubin Lane, Forest Lakes, and South Hollymead
Agenda item 3: Report on Panel Feedback

Report on additional Lynchburg to DC train
- Representative from DRPT will provide update at Apr 20 meeting

Add lighting beneath bridge at Amtrak station
- Comment forwarded to City for consideration

Add Best Buy Ramp to accident data tracking
- Joel DeNunzio will include data in April update

Weaving at Rio GSI (from earlier meetings)
- Delineators placed on Rt 29 SB on south side of Rio
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></th>
<th>2016</th>
<th>2017</th>
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<tbody>
<tr>
<td></td>
<td>November</td>
<td>December</td>
</tr>
<tr>
<td><strong>29 Widening</strong></td>
<td></td>
<td></td>
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<tr>
<td>Waterline Relocation (65%) 95%</td>
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</tr>
<tr>
<td>Phase 4 Grading, Drainage, and Paving (60%) 75%</td>
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<td></td>
</tr>
<tr>
<td>Phase 6 and 7 Grading, Drainage, and Paving (45%) 60%</td>
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<tr>
<td><strong>Berkmar</strong></td>
<td></td>
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<tr>
<td>Roadway Construction South of River (85%) 90%</td>
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<td></td>
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<tr>
<td>Roadway Construction North of River (90%) 95%</td>
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<tr>
<td>Deck Construction 100%</td>
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<tr>
<td>Parapets, Abutment Slabs, and Railing (30%) 45%</td>
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<tr>
<td><strong>Hillsdale</strong></td>
<td></td>
<td></td>
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<tr>
<td>Partial Building Demolition 100%</td>
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<tr>
<td>Greenbriar Signal Infra 0%</td>
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<tr>
<td>Grading, Drainage, and Paving North of Greenbriar Drive (20%) 20%</td>
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<tr>
<td>Bridge Substructure (90%) 100%</td>
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<tr>
<td>Bridge Superstructure 20%</td>
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<tr>
<td>Retaining Wall-Pepsi (70%) 100%</td>
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<tr>
<td>Grading, Drainage, and Paving between Greenbriar Drive and Seminole Ct. (40%) 40%</td>
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<tr>
<td>Roundabout and Roadwork between Zan Rd. and Whole Foods (35%) 40%</td>
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<tr>
<td>Grading, Drainage, and Paving in Seminole Ct. (10%) 15%</td>
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<tr>
<td>Seminole Court Signal 0%</td>
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Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 /250 Interchange - Landscaping and wall staining update

- Landscaping underway and will continue to completion
- Noise wall staining begins March 27 and will continue for approximately one month
- Both landscaping and wall staining schedules subject to weather
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening

Work this week

- Finalize Ponds 2 and 3
- Storm sewer installations
- Grading for curb, subgrade, shared use path
- Phase 4 water main northern crossing and connection prep
- Phase 3 water main testing
- Begin open cut for structure 9-2
- Underdrain installation
- Install signal and light pole at Hollymead
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening (continued)

Significant lane closures this week (nighttime)

• Potential single lane nighttime closure
• South Hollymead closed and detoured to N. Hollymead Tuesday night
Rt 29 Solutions

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

Rt 29 Widening (continued)

Work next two weeks

- Grade and place stone on shared-use path
- Finalize pond 2
- Subgrade and curb grading, stone placement
- Intersection nighttime closure and paving, Ashwood and South Hollymead
- Storm sewer installations
- Phase 4 water main installation
- Curb and gutter installation
Anticipated significant upcoming lane closures (nighttime)

- Ashwood and North Hollymead intersections nighttime closures Friday March 31; Detour to South Hollymead.
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended

Work this week

- Fine grade for curb installation
- Cut subgrade at roundabout
- Stone placement north of bridge
- Parapet wall construction
- Storm sewer construction
- Underdrain installation
- Curb and gutter installation
- Ground mounted sign installation
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Significant lane closures this week
  • No anticipated lane closures
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Work next two weeks

• Roundabout trench asphalt
• Fine grading roadway and sidewalk, grading for curb and gutter
• Parapet and barrier wall construction
• Storm sewer installations
• Underdrain installations
• Curb and gutter installation
• Parapet railing installation
• Ground-mounted sign installation
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Anticipated upcoming significant lane closures

• Nighttime lane closures at Hilton Heights the evenings of March 20 and 21
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended

Work this week

- Continue Undercut and fill at Storm Water Management Basin
- Complete Albemarle County Service Authority Sanitary Sewer; tie-in; test & patch; on Greenbrier Drive
- Laurel's Waterline tie-in
- Fine grade & install underdrain between Pepsi & Post Office
- Rip rap placement at Abutment A
- Form and Pour Abutment A Backwall
- Prepare and Install Curb at Line Drive
- Prepare for sidewalk & shared use path; Whole Foods to India Drive
- Curb Tie-ins at India and Whole Food intersections
- Temporary Seeding & Redress Erosion & Sediment Measures
Hillsdale Bridge
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended (continued)

Significant lane closures this week

• Line Drive closed for full depth construction
• Business detour signs are in place
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended (continued)

Work next two weeks

• Undercut and fill at Storm Water Management Basin
• Installing storm water system along Pepsi Place
• Install coping & aggregate base between Pepsi & Post Office
• Installing retaining walls @ Post Office
• Form and Pour Abutment A Backwall and Abutment B
• Continuing installation of storm water drainage, conduit, shared use path, curb and asphalt base course in parking lot of Seminole Square
• Shopping Center (North Wing Section)
• Rough Grade in front of Big Lots and Marshalls to Roundabout
• Pave & Reopen Line Drive
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended (continued)

Anticipated upcoming significant lane closures

• Line Drive closed for full depth construction
• Business detour signs are in place
### Agenda item 7: Budget Update

#### Route 29 Solutions Budget Update as of March 16, 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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1. Rt. 29 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 $104,004 City Utility betterment. Hillsdale Approved Change Orders and Anticipated Construction Expenditures at Completion include the $350,000 incentive and a $297,437 ACSA betterment.
Agenda item 8: VDOT Access Management Policies and Regulations

Concept: Managing access to land development while preserving the flow of traffic on the road network in terms of safety, capacity and speed.

Travel involves movement through a network of roads and each road serves a distinct function:

- Interstate: Major Collector
- Principal Arterial: Minor Collector
- Minor Arterial: Local

Higher classified roads serve to maximize mobility where lower functionally classified roads maximize accessibility.
Agenda item 8: VDOT Access Management Policies and Regulations

The 2007 General Assembly approved legislation directing VDOT to develop access management regulations and standards with the goals to:

• Reduce traffic congestion
• Lower the number and severity of crashes
• Preserve critical roadway capacity
• Support economic development
• Provide property owners with reasonable access to the highway
Agenda item 8: VDOT Access Management Policies and Regulations

The access management regulation requirements:

- Keep entrances out of the functional area of intersections and interchange ramps
- Share entrances with adjacent property owners
- Provide vehicular and pedestrian circulation between land uses
- Control traffic movements at entrances
- Comply with spacing standards
Agenda item 8: VDOT Access Management Policies and Regulations

Berkmar Drive is a 35 mph Collector Road with the following access management spacing standards:

- Signalized intersections spaced at 660 feet
- Signalized intersections or full access intersections to other full access intersections spaced at 440 feet
- Full access entrances to other full access entrances or any intersections spaced at 335 feet.
- Partial access entrances to any type of other entrance or intersection spaced at 250 feet.
Agenda item 9: Adaptive Signal Phase 2 Recommendation

Signal technology changed since the Adaptive Signal Control Technology (ASCT) project was included as part of the Route 29 Solutions Package.

In 2015, FHWA and VDOT promoted the use of ASCT systems.

Based on new research, in 2016 and 2017 Automated Traffic Signal Performance Measures (ATSPMs) promoted as an innovation to actively manage signals.

VDOT has determined that the ATSPM system will better manage traffic along the Route 29 corridor.

The final results will be equal to or better than those anticipated initially.
Agenda item 9: Adaptive Signal Phase 2 Recommendation

VDOT met with county and city to discuss the shift in focus and coordinate efforts to ensure a seamless signal system over jurisdictional boundaries.

VDOT will operate the following traffic signals within the city limits to ensure proper coordination under the ATSPM system:

- Route 29/Angus Road
- Route 29/ Morton Road
- Route 250 bypass/Hydraulic Road
- Hydraulic Road/ Hillsdale Dr.
Agenda item 9: Adaptive Signal Phase 2 Recommendation

The city will continue with the signal coordination project at the remaining signals within the original scope and determine what system is best for the city other than the signals VDOT will operate.

This collaborative approach to manage signals based on geographical location rather than jurisdictional boundaries results in a benefit to the traveling public, the city, the county and VDOT.
Agenda item 10: New Business and Wrap Up

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

March 16, 2017