Agenda item 1: Introductions

Project Delivery Advisory Panel

Technical Team
Agenda item 2: Interaction and Feedback

Live Streaming

<table>
<thead>
<tr>
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<th>Apr 28, 2016</th>
<th>Apr 14, 2016</th>
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<td>16</td>
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<td>Streams</td>
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<td>19</td>
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<tr>
<td>Average Minutes per stream</td>
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<td>26</td>
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</tbody>
</table>
Agenda item 2: Interaction and Feedback (continued)

For the period Apr 25 - May 8, 2016

Inbox email and phone calls: 8 emails
- 1 disappointed with Get-Around map
- 2 requesting information for Rt. 29 / 250 project (1 claim and 1 debris)
- 1 related to several Rio GSI questions; mailer from Albemarle County
- 1 requesting directional information between May 23 - Sep 2
- 1 regarding number of right-turn lanes from Rio WB to 29 NB
- 1 regarding milling and paving on Emmet Street
- 1 from a high school student requesting information on speed cameras

Web Provide Input: No new postings

Project Hotline 844-220-5540: 2 calls
- 1 regarding directions during May 23 - Sep 2
- 1 regarding access to Wendy’s
Agenda item 3: Report on Panel Feedback

Pedestrian Sep 2 milestone completion Rio GSI
- Pedestrian traffic must be accommodated either in its final location or through the implementation or continuation of pedestrian detours which shall include facilities meeting or exceeding the requirements of the Americans with Disabilities Act.

Rt 250 / 29 ramp
- Agenda item 7

Value of repurchased bypass right-of-way; conservation easements
- Agenda item 8
Agenda item 4: Panel Feedback and Suggestions for Future Agenda Items

Open Discussion
## Agenda item 5: Construction Milestones

<table>
<thead>
<tr>
<th>Status as of</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 9, 2016</td>
<td></td>
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</tr>
</tbody>
</table>

### Rio Road GSI
- **Sep 2, 2016 Dec 2, 2016**
  - **Utility Relocation**: 100%
  - **Drive Abutment Piles 100%**
  - **Set retaining wall piles and widen roadway (95%) 95%**
  - **May 23 start - Rio Restricted Period - Sep 2 intersection open**
  - **Final Signing**
  - **Construction Complete**

### Rt. 29 Widening Oct 31, 2017
- **Temp. Signals**: 100%
- **Gas line relocation - (50%) 70%**
- **ROW Acquisition 100%**
- **Phase 1 Grading, Drainage and Paving (75%) 80%**
- **Phase 2 Grading, Drainage and Paving (10%) 20%**
- **Phase 3 Drainage and Paving**
- **Phase 4 Grading, Drainage and Paving**

### Berkmacher Oct 31, 2017
- **ROW Acquisition 100%**
- **Clearing North of River 100%**
- **S. Abutment Excavation, Pile Driving (95%) 100%**
- **Rough Grading South of River (70%) 70%**
- **Utility Relocation (90%) 90%**
- **Pier Construction (25%) 30%**
- **Steel Girder Erection**
- **Deck Pans and Rebar**

### Hillsdale Oct 31, 2017
- **ROW Acquisition 100%**
- **90% Plans 100%**
- **Final Design 100%**
- **Utility Relocation (15%) 25%**
- **Adv for Bids**
- **Pre-Bid Conf**
- **Receive Bids**

### Rt. 29/250 May 21, 2016
- **MSE Wall 100%**
- **Pavement Widening 100%**
- **Final Paving (30%) 60%**
- **Sound Barrier (85%) 95%**
- **Construction Complete**

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**Notes:**
- Under way
- Complete
- Late
Agenda item 6: Rt 29 Solutions Project Updates

Rt 250 / 29 Interchange

Work this week

• Complete installation of overhead sign structure 2
• Complete panel installation for sound wall C
• Complete barrier wall along Route 250
• Complete base stone installation along Route 250 WB
• Continue grading maintenance bench behind sound wall B1 and C
• Continue lighting foundations along Route 250 WB
• Complete mill, overlay, and striping of Route 29
• Complete pavement markings on Route 29
• Resume base and intermediate asphalt along Route 250
• Begin right of way fence installation
• Continue ground sign installation
Rt 29 / 250 sound wall panel
Rt 29 / 250 cantilever signs
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 250 / 29 Interchange (continued)

Significant lane closures this week

- Route 250 Bypass WB right lane closed from Hydraulic Road to Barracks Road

- Ramp from Barracks Road to Route 250 Bypass EB narrowed with daytime right shoulder closure

- Route 29 SB and NB and ramp from 29 to Route 250 Bypass nighttime closure for paving.

- Route 29 SB left two lanes closed at night for paving (Wednesday)

- Route 29 SB nighttime closure with police assistance for overhead sign structure installation
Rt 29 Solutions

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

Rt 250 / 29 Interchange (continued)

Work next two weeks

- Complete paving and pavement marking on Route 250
- Complete sign panel installation for overhead sign structure 3
- Complete grading maintenance bench behind sound walls
- Complete right of way fence installation
- Complete backfill of barrier wall
- Install roadway lighting
- Complete final paving
- Develop punch list
- Open to traffic 5/21/16
Rt 29 Solutions

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

Rt 250 / 29 Interchange (continued)

Anticipated significant upcoming lane closures

- Route 29 nighttime alternating lane closures for pavement markings.
- Route 29 Southbound closed at night with police assistance for overhead sign structure installation
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection

Work this week

- Curb and gutter, sidewalk, raised islands, underdrain
- Median strip demolition
- SE quadrant fire department connection
- Stormwater Facility 6
- Form preparations
- Beam seat preparation
- Backfill abutments
- SB traffic shift to widened pavement (May 8)
- Asphalt paving at Albemarle Square
- Overhead sign structure and pedestrian lighting pole foundations
- Pre-tie Rio retaining wall rebar
- Signal foundations, cabinet foundations, vaults, CCTV poles
Rio GSI box beams
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Significant lane closures this week

- Rio crossover closed at nighttime restricting thru movements and left turn movements.
- Rte. 29 triple lane closures northbound and southbound
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rio Grade-Separated Intersection (continued)

Work next two weeks
• Complete curb and gutter, sidewalk, raised islands, underdrain
• Median strip demolition
• Finish grade slopes
• Gas line and waterline valve removal
• Set temporary barrier wall
• Set remaining drop inlets and pour remaining inverts
• Complete 4” fire department connection in SE Quadrant
• Stormwater Facility 6
• Prepare formwork
• Cured-in-place pipe rehabilitations
Agenda item 6: Rt 29 Solutions Project Updates (continued)
Rio Grade-Separated Intersection (continued)

Work next two weeks
• Miscellaneous concrete work project-wide
• Pre-tie Rio retaining wall rebar
• Signal foundations, cabinet foundations, vaults, CCTV poles, etc…
• General crossover shut-down preparations
• Close crossover at 9:00 pm May 22nd
• Install barrier wall
• Begin asphalt pavement milling
• Begin depressed lane excavation
• Begin setting bridge beams
Rt 29 Solutions

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

Rio Grade-Separated Intersection (continued)

Anticipated significant lane closures prior to May 23
- Rio crossover closed at nighttime restricting thru movements and left turn movements.
- Rt 29 triple lane closures northbound and southbound

Anticipated significant lane closures after May 23
- Rio crossover at Rt 29 closed; no left turns to or from Rio and Rt 29
- Two Rt 29 lanes maintained southbound, Three lanes maintained northbound during daytime
- Right turns to and from Rio and Rt 29 maintained
Rt 29 Solutions

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

Rt 29 Widening

Work this week

• Continue jack and bore structure 7-5
• Complete jack and bore structure 15-20
• Slip line box culverts
• Wire wall construction
• Fine grading for phase 2 paving
• Stripping and hauling topsoil
• Cut and fill in median
• Complete Phase 2 gas main installation
• Dominion pole adjustments (3 remaining)
Rt 29 Widening jack and bore
Rt 29 Widening gas main relocation
Rt 29 Solutions

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

Rt 29 Widening

Significant lane closures this week (nighttime)

• Route 29 left lane closure NB and SB
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening (continued)

Work next two weeks

- Receive delivery of Rio Road bridge beams for staging (May 18)
- Cut to fill grading
- Wire wall construction
- Fine grading for phase 2 traffic shift
- Begin phase 3 gas main relocations
- Begin jack and bore for structure 11-4
- Jack and bore for structure 15-20
- Mobilize jack and bore crew to structure 12-20
- Relocate communications utilities to new aerial poles
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Rt 29 Widening (continued)

Anticipated significant upcoming lane closures (nighttime)

• Route 29 left lane closure NB and SB
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended

Work this week

- Backfill abutments A and B
- 84 inch culvert stream diversion
- Cut to fill
- Backfill 60 inch culvert
- Strip topsoil
- Form abutment A stem
- CSL tube grouting
- CSL testing
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Work this week (continued)

• Drill north mass for blasting at Kohl’s
• First shot at Kohl’s
• Install crossing # 8
• Temporary sediment traps
• Erosion control and seeding
• Continue drilled shafts (Pier 1, Shaft 3; Pier 2 Shaft 2)
Berkmar abutment B
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Significant lane closures this week
• Flagging operation along Rio Mills Road
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Work next two weeks

• Backfill abutment B
• Temporary pipe installations
• Install sediment traps
• Cut to fill throughout project
• Strip topsoil throughout project
• Set MSE panels and backfill and install leveling pads
• Form and pour abutment A stem
• Drilling for blasting on north end of project
• Install pipe headwalls and endwalls
• Install 84 inch pipe
• Continue drilled shafts for piers
• Remove overhead power line along Rio Mills Road
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Berkmar Extended (continued)

Anticipated upcoming significant lane closures this week
• Flagging operation along Rio Mills Road
Rt 29 Solutions

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

Signal Updates

Work this week

• Complete installation of controllers and malfunction management units
• Equipment testing

Significant lane closures this week

• None

Work next two weeks

• Equipment testing and begin total operation
**Agenda item 6: Rt 29 Solutions Project Updates (continued)**

### Rt 29 Additional Signal Upgrades as of May 9, 2016

<table>
<thead>
<tr>
<th>Intersection</th>
<th>Improvements</th>
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<tbody>
<tr>
<td>Hydraulic/Georgetown</td>
<td>Replace controller and MMU</td>
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<tr>
<td></td>
<td>Install broadband</td>
</tr>
<tr>
<td></td>
<td>Install video converter</td>
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<tr>
<td>Barracks/Georgetown</td>
<td>Replace controller and MMU</td>
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<tr>
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<td>Install broadband</td>
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<tr>
<td>Hydraulic/Earlysville</td>
<td>Replace controller and MMU</td>
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<tr>
<td>Hydraulic/Lambs</td>
<td>Replace controller and MMU</td>
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<td>Install broadband</td>
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<td>Hydraulic/Commonwealth</td>
<td>Replace controller and MMU</td>
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<td></td>
<td>Install broadband</td>
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<tr>
<td>Rio/Berkmar</td>
<td>To be re-constructed with Rio GSI</td>
</tr>
<tr>
<td>Rio/Hillsdale</td>
<td>Replace cabinet</td>
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<td>Install broadband</td>
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<tr>
<td></td>
<td>Replace controller and MMU</td>
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<tr>
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</tr>
<tr>
<td>Commonwealth/Greenbrier</td>
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<td>Berkmar/Woodbrook</td>
<td>Re-constructed fall of 2015</td>
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<td>29-250 Bypass/Barracks</td>
<td>Replace controller and MMU</td>
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<td></td>
<td>Install broadband</td>
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<td>No improvements</td>
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<td>Rio/Catec</td>
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<td>Hydraulic/Cedar Hill</td>
<td>Replace controller and MMU</td>
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<tr>
<td></td>
<td>Install broadband</td>
</tr>
</tbody>
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**MMU = Malfunction Management Unit**
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended

Work this week

• Questions from bidders due by noon on Monday, May 9
• Issue Addendum #2 (if needed)
• Continue with utility relocations for service to commercial buildings
• Continue Dominion Virginia Power relocations
• Continue CenturyLink relocations
• Continue business relocations
Agenda item 6: Rt 29 Solutions Project Updates (continued)

Hillsdale Extended (continued)

Work next two weeks

- Receive construction bids Monday, May 16, 2:00pm
- Continue with utility relocations for service to commercial buildings
- Bid review
- Continue business relocations
- Continue Utility relocations (DVP and CenturyLink)
- Begin Comcast utility relocations
Agenda item 7: Ramp Design, Rt 250 / 29

Emails were exchanged prior to Apr 28 PDAP meeting regarding ramp design.
Ramp design discussed at Apr 28 PDAP meeting as part of project update.

Important that the public record is clear.

Ramp lane width:
- The ramp lane and pavement widths meet design requirements:
  - Two 12-ft lanes at ramp entrance; total pavement varies 28 to 30 feet.
  - Two 12-ft lanes at ramp midpoint; total pavement varies 28 to 38 feet.
  - Two 12-ft lanes and 10-ft paved shoulder at top of ramp.
Agenda item 7: Ramp Design, Rt 250 / 29 (continued)

Ramp curvature

- The ramp curve design meets design requirements
  - A minimum curve radius of 44.8 ft is required for a semi-trailer
  - There are two curves at the ramp entrance (a compound curve)
  - The radius of the first curve is 279 feet
  - The radius of the second curve is 397 feet
  - The curve radius determines the “sharpness” of a curve
  - The curve radius was tested using AutoTURN software for two side-by-side interstate semi-trailers (WB 67)
  - The AutoTURN results indicate that two side-by-side WB 67s can negotiate the ramp
Agenda item 7: Ramp Design, Rt 250 / 29 (continued)
### Agenda item 8: Disposed Bypass Right-of-Way, Value of Closed Sales

<table>
<thead>
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<th>Property</th>
<th>Acquisition Price</th>
<th>Sales Price</th>
<th>Variance</th>
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**TOTAL**  
$4,885,700  
$4,184,578  
($701,122)
Agenda item 8: Disposed Bypass Right-of-Way; Conservation Easements

A conservation easement ran with four properties acquired for bypass.

VDOT purchased a release of the easement for the bypass.

Easements being reestablished on each property before sale.
Agenda item 9: Rio GSI Detour Routes and Signs; May 23 - Sep 2

Graphic on next slide (Print copy provided to PDAP)

Dave Covington will walk through reading of detour key
MAINTENANCE OF TRAFFIC &
PHASE 2 - 103 DAY CLOSURE
US-29 AT RIO ROAD INTERSECTION DETOUR

Project Location
NOT TO SCALE

US-29 GRADE SEPARATED INTERSECTION
DETOUR SIGN LEGEND

DETROU AHEAD,
W2D-2.50 x 36
W2D-2.48 x 48
DETROU,
W4-8.24 x 12
W4-8.30 x 15
NORTH,
W3-1.24 x 12
W3-1.36 x 18

EAST,
W3-1.24 x 12
W3-1.36 x 18

SOUTH,
W3-1.24 x 12
W3-1.36 x 18

WEST,
W3-1.24 x 12
W3-1.36 x 18

ADVANCE ARROW IRL,
M5-1L, 30 x 25
M5-1R, 35 x 30

ADVANCE ARROW IRL,
M5-1L, 30 x 25
M5-1R, 35 x 30

US-29 SHIELD,
M1-4.24 x 24
M1-4.36 x 35
VA631 SHIELD,
M1-4.24 x 24
M1-4.36 x 35
END DETOUR,
M4-8.24 x 18

GENERAL NOTES:
* THIS DETOUR TO BE USED DURING "PHASE 2 - 103 DAY INTERSECTION CLOSURE" WHEN MOVEMENTS THROUGH THE US-29/RIO ROAD INTERSECTION ARE RESTRICTED (US-29 LEFTS AND RIO ROAD THROUGH).
* TRAFFIC WILL BE DETOURED ALONG BERKMAR DRIVE, BRANCHLANDS BOULEVARD AND HILLSDALE DRIVE AS SHOWN ON THIS SHEET.
Agenda item 10: May 26 Meeting Start Time

May 26 PDAP meeting will start at 10:30 am and not 2:00pm

Meeting will be at usual location (VTRC)

Secretary Aubrey Layne will attend
Agenda item 11: New Business and Wrap Up
Agenda item 12: Adjourn