Revised sheet to include roundabout design.

### Functional Classification and Traffic Data

<table>
<thead>
<tr>
<th>Route: 6234-076-266</th>
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<tbody>
<tr>
<td>PRINCE WILLIAM PARKWAY INTERCHANGE - PROJECT LOCATION MAP</td>
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**PRINCE WILLIAM COUNTY, VIRGINIA**

**ADT (2017)**

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**ADT (2040)**

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**DHV**

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**TC ST'D.**

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**D (%) (design hour)**

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**T (%) (design hour)**

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**V (MPH)**

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### Functional Classification and Traffic Data

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**DHV**

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**D (%) (design hour)**

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**T (%) (design hour)**

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**V (MPH)**

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### Functional Classification and Traffic Data

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**DHV**

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### Functional Classification and Traffic Data

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**DHV**

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### Functional Classification and Traffic Data

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**DHV**

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**T (%) (design hour)**

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**V (MPH)**

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## Index of Sheets

<table>
<thead>
<tr>
<th>SHEET NO.</th>
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<tbody>
<tr>
<td>01-02</td>
<td>Stormwater Management Facility Details - PL34-BMP-1 Detail Sheet</td>
</tr>
<tr>
<td>01-03</td>
<td>Stormwater Management Facility Profile - PL34-BMP-1 Detail Sheet</td>
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<tr>
<td>01-04</td>
<td>Stormwater Management Facility Plan - PL34-BMP-1 Detail Sheet</td>
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<tr>
<td>01-05</td>
<td>Post-Development Overall Drainage Area Map PL44</td>
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<tr>
<td>01-06</td>
<td>Stormwater Pollution Prevention Plan (SWPPP) General Information Sheet</td>
</tr>
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<td>01-07</td>
<td>TMP/SOC Phase 6</td>
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<td>TMP/SOC Phase 6A</td>
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<td>TMP/SOC Phase 6 Typicals</td>
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<td>Stormwater Management Facility Plan - PL44-BMP-10A Detail Sheet</td>
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<td>Stormwater Management Facility Checklist - PL44-BMP-10 Detail Sheet</td>
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<td>Stormwater Management Facility Details - PL34-BMP-5 Detail Sheet</td>
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### Project Scope of Sheets

- **Project Location Map**: Provides a comprehensive overview of the project's geographic boundaries and location.
- **Index of Sheets**: Lists all the individual sheets included in the project, their corresponding numbers, and a brief description of their content.

### Important Notes

- **By Resolution of Highway Commission dated**
- **VA**: Indicates the jurisdiction or authority responsible for the project.
- **2020-00383 S03 SHEET NO.**: Refers to the specific sheet number within the project documentation.
<table>
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<th>Description</th>
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<tbody>
<tr>
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<td>Grading Plan - Balls Ford Road Sta. 129+50 to 136+50</td>
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<td>15 ***</td>
<td>Grading Plan - Balls Ford Road Sta. 122+25 to 129+50</td>
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<td>13(1)G ***</td>
<td>Grading Plan - Balls Ford Road Sta. 165+00 to Sta. 172+25</td>
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<td>13(1) ***</td>
<td>Grading Plan - Balls Ford Road Sta. 172+25 to Sta. 179+75</td>
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<td>13A ***</td>
<td>Plan Sheet - Balls Ford Road Sta. 143+50 to Sta. 150+25</td>
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<td>11G ***</td>
<td>Grading Plan - Balls Ford Road Sta. 150+25 to 157+50</td>
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<td>8A ***</td>
<td>Profile Sheet - Weston Road Sta. 511+25 to End</td>
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<td>Profile Sheet - balls Ford Rd Sta. 122+25 to 129+50</td>
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**Notes:**
- All plans and profiles are standardized and reviewed by the design team.
- Each sheet number corresponds to a specific section of the project.
- The index of sheets provides a comprehensive view of the project's layout and components.
### Right of Way Data Sheet

**Project:** [Insert Project Name]

**Sheet No.:** [Insert Sheet Number]

**Office Location:**
- 4301 Dominion Boulevard
- Suite 200
- Virginia Beach, VA 23462
- Phone: (804) 612-0665
- Fax: (540) 548-4471

**Date:** 12/23/2020

**Revised by:** Connor Eggleston

**Notes:**
- This sheet is for informational purposes only and is not to be used for actual Right of Way Acquisition. Please see prepared plats separately.
- Revised Parcel 052 to add MDS Easement. Revised Parcel 037 to include additional Right of Way.
- Revised parcel OS3 with permanent Right of Way and Temporary Construction Easement. Revised parcel OS6 with Temporary Construction Easement.

### Table of Right of Way Data

Revision Data Sheet

Data Project: 6234-076-266, RW-201

State Project: 6234-076-266, PE-101, RW-201, C-501

Prince William Parkway.

Sheet x: Revised sheet.


Sheet 26(12(1)): Revised sheet to include roundabout signage.

Sheet 26(4(3)): Added sign 4304. Added sign 4305.

Sheet 26(2H): Added sheet.


Sheet 22A: Revised Ditch 44.

Sheet 22G: Revised grading and ditch/storm sewer alignment.

Sheet 22: Added sheet.

Sheet 22(3): Added sheet.

Sheet 22(1): Revised cut/fill limits and ditch alignment. Added emergency access entrance.

Sheet 22: Added sheet.

Sheet 21: Moved 20(3)-2. Added note to contractor. Removed 299' of fence from Parcel 052. (Per FDC 01)

Sheet 20(3): Added storm pipe 20(3)-1 to 20(3)-2. Removed 20(3)-3. Realigned ditches around 20(3)-2.

Sheet 21: Removed MDS Easement from Parcel 052. Added MDS Easement to Parcel 057.

Sheet 4(1): Revised Novec and VDOT Utility Easement on Parcels 017 and 018. Removed MDS Easement from Parcel 052 and Added MDS Easement to Parcel 057. This revision was made at the request of Mark Gunn.

Sheet 22(0): Added MDS Easement to Parcel 057.

Sheet 21(0): Removed MDS Easement from Parcel 052. Added MDS Easement to Parcel 057.

Sheet 22: Added Sheet 22(0).

Sheet 4(0): Revised Novec and VDOT Utility Easement on Parcels 017 and 018. Removed MDS Easement from Parcel 052 and Added MDS Easement to Parcel 057.

Sheet 1C: Revised parcel 083 with Aerial Maintenance Easement. Revised Parcel Note: Per Lanes request a Pre-Phase 1 effort (Phase 0) has been developed to permit access to the field. This revision was made at the request of Maggie Shelton.

Sheet 22(1G): Added sheet to include roundabout changes.

Sheet 1G(1F): Added sheet to include baselines for roundabout design.

Sheet 1E: Added demolition number 912 (Per FDC 01). Added demolition number 913. 085 and 087 with permanent Right of Way and Temporary Construction Easement.

Sheet 1B: Revised sheet.

Sheet 1A: Revised to include Sheet 22(3).

Kevin Cloniger (property owner name revision). This revision was made at the request of Maggie Shelton. Sheets 15(1) and 15(1) - Revised property owner's names for parcels 068 and Sheets 15(0) and 15(0) - Added Novec easement to parcel 075. Revised property GPIN for parcel 068.

Sheet 22(0): Added MDS Easement to Parcel 057.

Sheet 21(0): Removed MDS Easement from Parcel 052. Added MDS Easement to Parcel 057.


Sheet 1C(0): Added parcel 083 with Aerial Maintenance Easement. Revised Parcel Note: Per Lanes request a Pre-Phase 1 effort (Phase 0) has been developed to permit access to the field. This revision was made at the request of Maggie Shelton.

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Sheet 1C(0): Added parcel 083 with Aerial Maintenance Easement. Revised Parcel Note: Per Lanes request a Pre-Phase 1 effort (Phase 0) has been developed to permit access to the field. This revision was made at the request of Maggie Shelton.

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## Demolition Summary

### PROJECT NUMBER 6234-076-266, PE-101

<table>
<thead>
<tr>
<th>SHEET NUMBER</th>
<th>PARCEL NUMBER</th>
<th>DEMOLITION NUMBER</th>
<th>LANDOWNER</th>
<th>WITHIN EXIST. R/W</th>
<th>STATION RL. OR LT.</th>
<th>DESCRIPTION</th>
<th>DESCRIPTION</th>
<th>DESCRIPTION</th>
<th>DESCRIPTION</th>
<th>DESCRIPTION</th>
<th>UNDERGROUND STORAGE TANK REMOVAL</th>
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<tr>
<td>9</td>
<td>058</td>
<td>962</td>
<td>USF PROPCO, LLC</td>
<td>No</td>
<td>149+47, 95' LT (Balls Ford Rd.)</td>
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<td>USF PROPCO, LLC</td>
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<td>150+49, 94' LT (Balls Ford Rd.)</td>
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<td>21</td>
<td>052</td>
<td>912</td>
<td>Wilson Capital Properties, LLC</td>
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<td>165' Fence</td>
<td>-</td>
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</table>

---

**Note:** Added demolition numbers 912 and 913.
Proposed Baselines

- Added sheet to include baselines for roundabout design.
Revised sheet to include roundabout changes.
STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET
FOR INFORMATION ONLY

1. Activity Description - The project is for the design and construction of a Seagull Dam improvements at the Prince William Parkway (I-295) and redesign St. George Road (SR 627) in Prince William County. The existing St. George Road alignment between approximately 2,200 feet west of the existing Godwin Road (SR 627) intersection and extends eastward to the Prince William Parkway (I-295) alignment.

2. This land disturbance construction activity site is located in Prince William County and approximately 128 acres will be disturbed by excavation, grading into other construction activities.

3. Proposed activity dates are more or less greater and requires coverage under the VPDES General Permit for Discharges of Stormwater from Construction Activities (the VPDES Construction Permit Flowsheet) as issued by the VA Department of Environmental Quality (DEQ) to the contractor and identified on the record set of plans in or other applicable contract documentation. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle working, maintenance and fueling areas, and fueling areas for facilities, trucks and coaches, construction and waste material storage areas, and other areas that may generate a stormwater discharge directly related to the storm disturbance construction activity.

4. Written evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOT right-of-way or as specified in the form of the VPDES General Permit Cover Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

5. The location of onsite support facilities that will be covered under the VPDES Construction Permit Flowsheet for this project are as follows: Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle working, maintenance and fueling areas, and fueling areas for facilities, trucks and coaches, construction and waste material storage areas, and other areas that may generate a stormwater discharge directly related to the storm disturbance construction activity.

6. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

7. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

8. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

9. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

10. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

11. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

12. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

13. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

14. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

15. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

16. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.

17. The ESC and P2 inspections for this land disturbing construction activity shall follow Schedule 1 of VPDES inspection requirements. Inspections shall be conducted at each support activity location not covered by the VPDES Construction Permit Flowsheet. A copy of the VPDES Permit Flowsheet or letter from VPDES stating coverage not needed shall be provided.
### Table A: Permanent BMP Types

<table>
<thead>
<tr>
<th>Plan Sheet Date</th>
<th>Type of BMP Installed</th>
<th>Geographic Location</th>
<th>VA 6th Order MJC</th>
<th>Receiving Water</th>
<th>Name of Impaired Water</th>
<th>Acres Treated Per BMP</th>
<th>X BMP Maintenance ID Number</th>
<th>BMP Maintenance Manual</th>
<th>BMP Inspection Manual</th>
<th>Percentage Complete</th>
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</tr>
</tbody>
</table>

**NOTES:**

1. A dotted line in the nearest one-hundredth of a degree.
2. For streams with no names, bit "unnamed Tributary to downstream name.
3. Show acres treated in the nearest one-hundredth of an acre.
4. Schedule maintenance to BMP operations.
5. All BMPs are required to have a BMP maintenance manual. Where applicable, 
6. Applies to the purchase of nutrient credits only.
8. All approved plans and drawings related to BMP's are to be submitted with the BMP information submitted with the VSMP form.
9. The name of any name is required in BMP maintenance program. The BMP information submitted in the VSMP form.
10. The BMP's are required to be for use with the BMP's affected by sediment, total suspended solids, turbidity, nitrogen or phosphorus.
11. BMP Maintenance ID Number is to be assigned by the District Designer and designated by the VSMP form.
12. Nutrient credits purchased to the nearest one hundredth pound.
STORMWATER MANAGEMENT FACILITY PLAN AND DETAIL

PLAN-MPD PROFILE VIEW

Retention II Facility

Balls Ford Interchange Station 106+00 RT A-A'

Retention Pond II PL44-BMP-10

1. Inspections during critical stages of construction shall be monitored by Virginia Department of Transportation, and the contractor shall ensure that the facility is built per the approved plans and design. Inspections during critical stages of construction shall be monitored by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

2. Revisions during critical stages of construction shall be monitored by Virginia Department of Transportation, and the contractor shall ensure that the facility is built per the approved plans and design. Inspections during critical stages of construction shall be monitored by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

3. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

4. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

5. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

6. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

7. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

8. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

9. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

10. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.

11. Refer to Sheet 2L thru 2L(6) for Drainage Descriptions. The contractor shall be responsible for maintaining the facility. The facility shall show the actual finished ground contours, outlet structure dimensions, and directions in which they exist at the Completion of the Project. These drawings shall be signed by the Licensed Professional Engineer of Land Surveyor registered in the State of Virginia. These drawings shall be signed by the Licensed Professional Engineer to ensure that the facility is built per the approved plans and design. All costs shall be included under Construction Surveying.
Rinker Design Associates: Mark Gunn PE (703) 368-7373
Rinker Design Associates, P.C. (703) 368-7373, April 2020

1. As-Built Drawing of Stormwater Management Facilities. The Contractor shall provide As-Built drawings of all stormwater management facilities. The As-Built drawings structure dimensions and elevations, etc. as they exist at the completion of the project. These drawings shall be signed and sealed by the Licensed Professional Engineer or Land Surveyor registered in the State of Virginia. All costs shall

2. Inspections during critical stages of construction shall occur under direct supervision of a Virginia Professional Engineer to ensure that the facility is built per the approved plans and design.

3. This facility shall be maintained by Virginia Department of Transportation.

4. Refer to Sheet 3L thru 2463 for Drainage Descriptions.

5. The contractor shall provide certification from an independent source that all proposed BMP facilities were constructed in accordance with applicable and current industry standards, and the manufacturer's specifications. All costs shall be included under Construction Surveying.

6. The contractor shall be responsible for maintaining the manufacturer's maintenance guidelines (or relevant industry standards) prior to transfer to VDOT.

7. When installing the steps and trash rack to the control structure, the contractor shall ensure that the steps and trash rack hinged access door are oriented to the embankment side of the control structure, and are to the extent possible, in direct alignment with each other.
Erosion and Sediment Control Plan
VESCH Narrative and Checklist

**Checklist for Erosion and Sediment Control Plans**

<table>
<thead>
<tr>
<th>Checklist</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Visual Inspection</strong></td>
<td>Conduct a visual inspection at the start of each workday and after any significant storm.</td>
</tr>
<tr>
<td><strong>Contouring</strong></td>
<td>Contour the land to reduce runoff and erosion.</td>
</tr>
<tr>
<td><strong>Temporary Soils Stabilization</strong></td>
<td>Install temporary stabilizing measures such as straw wattles, hydraulic blankets, or organic mulch.</td>
</tr>
<tr>
<td><strong>Temporary Sediment Basins</strong></td>
<td>Construct temporary sediment basins to capture and control erosion runoff.</td>
</tr>
<tr>
<td><strong>Inlet Protection</strong></td>
<td>Install inlet protection devices such as Sediment Traps or Sediment Lagoons.</td>
</tr>
<tr>
<td><strong>Silt Fences</strong></td>
<td>Install silt fences along temporary roads to control erosion.</td>
</tr>
<tr>
<td><strong>Diversion Dikes</strong></td>
<td>Use diversion dikes to divert runoff and protect natural features.</td>
</tr>
<tr>
<td><strong>Seed and Mulch</strong></td>
<td>Plant native vegetation and use organic mulch to stabilize soil.</td>
</tr>
<tr>
<td><strong>Inlet Protection</strong></td>
<td>Ensure that all inlets are protected to prevent erosion of sediments.</td>
</tr>
<tr>
<td><strong>Temporary Structures</strong></td>
<td>Install temporary structures such as sandbags or straw wattles to control erosion.</td>
</tr>
</tbody>
</table>

**Erosion and Sediment Control Structures Cont.**

1. **Vegetative Stabilization**
   - Use native plants and grasses to stabilize soil and prevent erosion.
2. **Structural Stabilization**
   - Use erosion control structures such as sediment basins, silt fences, or diversion dikes.
3. **Inlet Protection**
   - Use inlet protection devices such as Sediment Traps or Sediment Lagoons to prevent sediment from entering storm drain systems.
4. **Diversion Dikes**
   - Use diversion dikes to divert runoff and protect natural features from erosion.
5. **Seed and Mulch**
   - Use native vegetation and organic mulch to stabilize soil and prevent erosion.
6. **Inlet Protection**
   - Ensure that all inlets are protected to prevent erosion of sediments.
7. **Temporary Structures**
   - Install temporary structures such as sandbags or straw wattles to control erosion.

**Erosion and Sediment Control**

- **Stability Plan**
- **Construction Plan**
- **Maintenance Plan**
- **Monitoring Plan**

**Stormwater Management**

- **Preconstruction**
  - Prepare a Stormwater Management Plan.
- **Construction Phase**
  - Implement BMPs as required.
- **Postconstruction**
  - Conduct a Stormwater Management Audit.

**Stormwater Model**

- **Model Setup**
- **Model Calibration**
- **Model Verification**

**Construction Access**

- **Temporary Access Road**
- **Temporary Bridge**

**Site Drainage**

- **Drainage Ditches**
- **Sediment Basins**
- **Silt Fences**

**Construction Materials**

- **Soil Stabilization**
- **Vegetation Planting**

**Quality Control**

- **Soil Testing**
- **Vegetation monitoring**

**Construction Site Security**

- **Access Control**
- **Security Measures**

**Maintenance Plan**

- **Sediment Trapping**
- **Inlet Protection**
- **Vegetation Maintenance**

**Project Completion**

- **Site BNM Final Report**
- **Site BNM Certification**

**Appendices**

- **Vegetation Plan**
- **Soil Stabilization Plan**
- **Inlet Protection Plan**

**Contact Information**

- **Rinker Design Associates**
  - Mark Gunn PE (703) 368-7373
- **NOVA District Design**
  - 4301 Dominion Boulevard, Suite 200, Virginia Beach, VA 23452
  - Phone: (804) 612-0665, Fax: (540) 548-4471
  - Phone: (540) 548-4470
  - E-mail: NOVA.DSD@va.gov
EROSION CONTROL PHASE 2

Revised to Include roundabout ESC measures.
Typical Sections

- See Design 4-13 and 4-15 for Inset details.

- Match Exist.

- Existing Shoulder

- Mill and Overlay

- VDOT Standard WP-2.

- All Pavement widening shall be performed in accordance with sheets 3 thru 24 governed the typical ranges shown on plan sheets.

- See Sheet 4-14-4-15 for Pavement Inset Details.

- Revised shoulder section In pavement in front of BPPS.

- Mill and Overlay/Variable Build-Up Limits shown on plan sheets 2 thru 24 given over the typical ranges shown on plan sheets.

- UNIVERSITY DRIVE

- Shoulder widening shall be performed in accordance with Standard 6.9.9. Revised shoulder section in pavement in front of BPPS.
Typical Sections
Inset details

Inset "AA"  Inset "BB"  Inset "CC"  Inset "DD"  Inset "EE"  Inset "FF"
Inset "GG"  Inset "HH"  Inset "KK"  Inset "MM"  Inset "NN"
Inset "OO"  Inset "PP"  Inset "QQ"  Inset "RR"  Inset "SS"  Inset "TT"

NOTE:
See sheet 2A(16) thru 2A(23) for geotechnical recommendations.
1 INTRODUCTION

This report illustrates the results of our geotechnical investigation and data analysis for the future construction of a roundabout at the intersection of US Route 1 and Lakeridge Drive in Manassas, Virginia. The project is being conducted by the Virginia Department of Transportation (VDOT), and the report will be used to support the design and construction of the roundabout.

2 SURFACE DATA

2.1 EXPLORATORY BORINGS

A supplementary geotechnical investigation consisting of borings and 2 percussion coring was completed on April 14, 2021, using locations and depths noted from the preliminary soil boring (PCSB-3) and from the initial field investigation (VDOT). The borings were performed to obtain soil samples for laboratory testing and to assess the geotechnical conditions at the site.

Vertical Datum of NWS (vdNWS)

The investigation was performed by a subconsultant, DMR Engineering Consultants, Inc. The borings were performed using a handheld tripod equipped with a hammer to apply force to the borings. The borings were terminated at a depth of 18 feet (5.5 meters) because no additional materials were encountered below that depth.

Intermediate Geotechnical Report:

A medium to fine-grained soil deposit was encountered at a depth of 12 feet (3.7 meters). The soil deposit was characterized as a sandy clay loam with a moisture content of 12%.

3 SUBSURFACE CONDITIONS

3.1 SUBSURFACE STRATIGRAPHY

Geotechnical Recommendations for the Roundabout.

The soil deposit is composed of a fine-grained soil deposit with a moisture content of 12%. The soil deposit is characterized as a sandy clay loam with a moisture content of 12%.

3.2 GROUNDWATER CONDITIONS

Groundwater conditions are not expected to affect the construction of the roundabout. However, it is important to note that groundwater levels may fluctuate due to seasonal variations and precipitation.

4 GEOTECHNICAL ANALYSES AND RECOMMENDATIONS

4.1 PAVEMENT

The design includes an analysis for two pavements at the proposed roundabout. The design parameters for each pavement are presented in Table 1. The results presented in Table 1 are based on the following assumptions:

- The subgrade material is assumed to be a fine-grained soil with a moisture content of 12%.
- The pavement thickness is assumed to be 12 inches (300 mm).
- The subgrade material is assumed to be a fine-grained soil with a moisture content of 12%.

Table 1: California Bearing Ratio (CBR) Test Results

<table>
<thead>
<tr>
<th>Test Number</th>
<th>U1/5 (kPa)</th>
<th>Maximum Dry Density (g/cm³)</th>
<th>Optimum Moisture Content (%)</th>
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<tr>
<td>0101.000-10</td>
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<td>19.2</td>
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Table 2: CBR Test Results

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<th>Maximum Dry Density (g/cm³)</th>
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</thead>
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<td>0101.000-10</td>
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<td>10.3</td>
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Table 3: CBR Test Results

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<th>Maximum Dry Density (g/cm³)</th>
<th>Optimum Moisture Content (%)</th>
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</thead>
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<td>0101.001-10</td>
<td>15</td>
<td>10.3</td>
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</table>
Geotechnical Recommendations for the Roundabout

Added geotechnical recommendations for roundabout.

5 LIMITATIONS
The analysis and recommendations described in this report are based on the data obtained from the investigations and testing described herein.

The findings indicate subsurface conditions only at these specific locations and at the time of the investigations and do not necessarily reflect variations in subsurface conditions at any other locations. The recommendations made in this report are based on data as interpreted by the geotechnical engineer in accordance with the subsurface conditions encountered and are general in nature. For specific locations in the construction, the recommendations in this report should be evaluated.
### DRAINAGE DESCRIPTIONS

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**NOTE:** All necessary field notes shall be taken on the surveyor's plot sheet.
**ALLOWABLE TYPE OF PIPE (UNLESS OTHERWISE SHOWN IN DRAINAGE DESCRIPTIONS)**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>CULVERT PIPES</th>
<th>NO SOONER THAN 30 DAYS AFTER COMPLETION OF THE ROUTE NECESSARY BY THE DEPARTMENT</th>
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<td>OLD BALLS FORD ROAD</td>
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**KEEP ROAD AND BRIDGE STANDARDS MONITORED FOR NEEDS OF COVER LIMITATIONS FOR EACH TYPE**

**ALLOWABLE TYPE OF STORM DRAIN PIPE (UNLESS OTHERWISE SHOWN IN DRAINAGE DESCRIPTIONS)**

*See road and bridge standards monitor for needs of cover limitations for each type*
DRAINAGE DESCRIPTIONS AND DETAILS

31(3)-10
- 30" Storm Sewer Pipe Req'd (15' Cover)
- 1-St'd IS-1 Req'd.
L=10' H=5.8' Inv.=289.30 Top=295.14
1-St'd DI-3C Req'd.
Inv(in)290.50 Inv(out)290.50
Silt-Tight Joint Type Req'd.

31(3)-11
- 40' - 18" Storm Sewer Pipe Req'd (4' Cover)
Connect 3 UD-4 to DI
1-St'd. IS-1 Req'd.
L=6' H=5.0' Inv.=292.62 Top=297.58
1-St'd DI-3C Req'd.
Inv(in)293.15 Inv(out)292.72
Silt-Tight Joint Type Req'd.
Added sheet to include roundabout ditch profiles.
STORM SEWER PROFILES

2012-2 to 2012-4

12-3 to 20/2/03

22-5 to 22-1

12-8 to 12-12

Legend:

- Storm Pipe
- Valley Line
- Direction Change
- High Water Line

Notes:

- DENOTES HGL
- DENOTES PROP. GRADE
- DENOTES EX. STR. OR PIPE

Design Features Relating to Construction
May Be Subject to Change as Deemed
or to Regulation and Control of Traffic

V:DesignAid\PLOT-Drivers\imperial\050-Plan VDOTLD Local PDF.pltcfg

SPR2020-00383 S03

STATE

VA.

6234-076-266,
C-501, RW-201

LIMITED ACCESS HIGHWAY

1.98 %
58 L.F.

12-4
12-5
12-6 to 12-5
12-8 to 12-12
91 L.F.

189 L.F.

12-4 to 20(2)-2
20(2)-2 to 20(2)-4

Apr. 17, 1980

Rinker Design Associates, P.C., April 2020

Rinker Design Associates:  Mark Gunn PE (703) 368-7373

PWC DOT: Mary Ankers (703)-792-4228

T O P  = 29 6 .53

15" Storm Sewer Pipe Req'd.

2 .59 %
189 L.F.

12-5

1 S T D . D I -3 B R E Q ' D . L =10'

1+7 8 .1 7

1 S T D . D I -3 B R E Q ' D . L =6'

T O P  = 29 2 .9 6

15" Storm Sewer Pipe Req'd.

2 .04 %
115 L.F.

12-3

1 S T D . D I -3 B R E Q ' D . L =8'

0 +00 .00

T O P  = 29 6 .53

15" Storm Sewer Pipe Req'd.

2 .59 %
189 L.F.

12-5

1 S T D . D I -3 B R E Q ' D . L =10'

1+7 8 .1 7

1 S T D . D I -3 B R E Q ' D . L =6'

T O P  = 29 2 .9 6

15" Storm Sewer Pipe Req'd.

2 .04 %
115 L.F.

12-3

1 S T D . D I -3 B R E Q ' D . L =8'

0 +00 .00

T O P  = 29 6 .53

15" Storm Sewer Pipe Req'd.

2 .59 %
189 L.F.

12-5

1 S T D . D I -3 B R E Q ' D . L =10'

1+7 8 .1 7

1 S T D . D I -3 B R E Q ' D . L =6'

T O P  = 29 2 .9 6

15" Storm Sewer Pipe Req'd.

2 .04 %
115 L.F.

12-3

1 S T D . D I -3 B R E Q ' D . L =8'

0 +00 .00

T O P  = 29 6 .53

15" Storm Sewer Pipe Req'd.

2 .59 %
189 L.F.

12-5

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1+7 8 .1 7

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2 .04 %
115 L.F.

12-3

1 S T D . D I -3 B R E Q ' D . L =8'

0 +00 .00

T O P  = 29 6 .53

15" Storm Sewer Pipe Req'd.

2 .59 %
189 L.F.

12-5

1 S T D . D I -3 B R E Q ' D . L =10'

1+7 8 .1 7

1 S T D . D I -3 B R E Q ' D . L =6'

T O P  = 29 2 .9 6

15" Storm Sewer Pipe Req'd.

2 .04 %
115 L.F.

12-3
STORM SEWER PROFILES

- Added sheet to include roundabout storm sewer profiles.

Legend:

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<td>Denotes</td>
<td>DENOTES EXIST. GROUND</td>
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<tr>
<td>Denotes</td>
<td>DENOTES PROP. GRADE</td>
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</table>

For the Commonwealth Transportation Board dated November 2, 2020.

Culvert 31(3)-H6

Legend:

- Storm Sewer Profile

H: 1" = 25'
### Underdrain Summary

**Table Format:**
- **Base:**
  - **Location:** various stations
  - **Type:** Underdrain
  - **Remarks:** Various notes

**Diagram Description:**
- **Legend:**
  - **Left:** Various line marks and notes
  - **Right:** Various line marks and notes

**Other Details:**
- **Underdrain Summary:**
  - **Location:** Various points along the alignment
  - **Type:** Underdrain
  - **Remarks:** Various notes and data

---

**Legend:**
- **Underdrain Information:** Various underdrain details and notes.
- **Station:** Various alignment stations.
- **Type:** Underdrain.
- **Remarks:** Various notes and data related to underdrain installations.

---

**Diagram:**
- **Base:**
  - **Location:** Various points along the alignment.
  - **Type:** Underdrain.
  - **Remarks:** Various notes and data related to underdrain installations.

---

**Note:**
- The diagram provides a visual representation of the underdrain layout, with clear indications of left and right locations.
- The table summarizes the underdrain details, including location, type, and remarks.

---

**Conclusion:**
- The underdrain systems play crucial roles in managing water flow and maintaining the structural integrity of the roads.
- Detailed records and visual representations are essential for effective road maintenance and planning.

---

**References:**
- Additional documentation and data sources for comprehensive underdrain management.

---

**Additional Information:**
- For further details on underdrain systems, consult the relevant road construction manuals and standards.
Revised shoulder section in pavement in front of BPPS.
Match Line - See Sheet 2D

**** Added storm pipe 20(3)-1 to 20(3)-2. Removed 20(3)-3. 

Rinker Design Associates: Mark Gunn PE (703) 368-7373
Rinker Design Associates, P.C. (703) 368-7373, April 2020
Accumark (703) 635-3060; May 2020

8/18/2020 1:17:21 PM
6/24/2021
Moved 201.32: Added note to contractor. Revised grading around 201.32.
Revised grading and ditch/storm sewer alignment.
Revised cut/fill limits and ditch alignment.
Added emergency access entrances. Added Right of Way to Parcel CST.

Revised cut/fill limits and ditch alignment.
Added emergency access entrances. Added Right of Way to Parcel CST.
Revised grading and ditch alignment.

Added emergency access entrance.
Sta. 57+00 to End

Profile Sheet
Delinski Way

703-368-7373
WWW.RDAcivil.com

Rinker Design Associates:  Mark Gunn PE
Rinker Design Associates, P.C.  (703) 368-7373, April 2020

Accumark (703) 635-3060; July 2019

Match Line, Sta. 57+00 See Sheet 22(3A)

V = 30 mph
L = 50.00
K = 19
ex = -0.16'
SSD = 439'
EL = 297.04
STA = 57+29.00
See Roundabout Profile

31' Lt. Transition @ -2% to 2%

V = 25 mph
L = 90.00
ex = 0.34'
SSD = 264'
EL = 292.02
STA = 58+38.00

101' Rt. Transition @ 2% to 6.12%

02

Added sheet.
**PERMANENT SIGNAGE SCHEDULE**

<table>
<thead>
<tr>
<th>TEXT NO.</th>
<th>TEXT</th>
<th>SIGN NO.</th>
<th>SIGN STUD. STG.</th>
<th>PANEL SIZE</th>
<th>SIGN AREA</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>302</td>
<td>Do not enter</td>
<td>SWL-868</td>
<td>L-135</td>
<td>48</td>
<td>40</td>
<td>R1-2</td>
</tr>
<tr>
<td>303</td>
<td>Stop</td>
<td>SWL-868</td>
<td>L-135</td>
<td>30</td>
<td>24</td>
<td>R1-2</td>
</tr>
<tr>
<td>304</td>
<td>Do not enter</td>
<td>SWL-868</td>
<td>L-135</td>
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<td>22</td>
<td>R1-2</td>
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<td>Stop</td>
<td>SWL-868</td>
<td>L-135</td>
<td>36</td>
<td>30</td>
<td>R1-2</td>
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<tr>
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<td>Stop</td>
<td>SWL-868</td>
<td>L-135</td>
<td>38</td>
<td>42</td>
<td>R1-2</td>
</tr>
<tr>
<td>307</td>
<td>Stop</td>
<td>SWL-868</td>
<td>L-135</td>
<td>40</td>
<td>30</td>
<td>R1-2</td>
</tr>
</tbody>
</table>

**Signage Schedule Notes:**

1. All signs shall be oriented as shown on the plans.
2. Sign color combinations shall be in accordance with the FHWA Standard Highway Signs and Markings and the Virginia Standard Highway Signs as noted in the plans.
3. All positive control guide and specific service signs shall utilize fabrication other than Type I-5 or I-14 unless otherwise noted in the remarks.
4. All black sheeting shall be non-reflective.
5. Sign structures shall be installed per the noted sign structure.
6. Existing signs shall be replaced as noted in the plans.
7. Posted speed limit to be determined by speed study, submit an RFI for final speed limits once Speed Study is approved.
8. This sign is intended to be double sided and shall be installed as such with appropriate sign assemblies at no additional cost. Final shop drawings shall be submitted to Engineer for approval prior to ordering of materials.

**Foundation Details:**

- **302** 8 x 6.25
- **303** 6 x 5
- **304** 8 x 6.25
- **305** 6 x 5
- **306** 12 x 6.25
- **307** 12 x 6.25

**Additional Notes:**

- **See Signage Schedule Notes:**
- **See Sheet 26(1H) for PWC details.**
- **See Sheet 26(2H) for DCSM street name sign details.**

**Contact Information:**

- **Rinker Design Associates:** Mark Gunn PE
  - Phone: (703) 368-7373
  - Fax: (703) 257-5443

**Additional Notes:**

- All dimensioned areas are in feet.
- All dimensioned areas are in feet.
Sign Panel Details

Note 1: This sign is intended to be double sided and shall be finished as such with appropriate sign assemblies of no additional cost. Final shop drawings shall be submitted to Engineer for approval prior to ordering of materials.

Note 2: See Sheet 26(1H) for PWC DCSM street name sign details.

Note 3: This sign is intended to be double sided and shall be finished as such with appropriate sign assemblies of no additional cost. Final shop drawings shall be submitted to Engineer for approval prior to ordering of materials.

This sign is intended to be double sided and shall be finished as such with appropriate sign assemblies of no additional cost. Final shop drawings shall be submitted to Engineer for approval prior to ordering of materials.
Neither Pedestrian nor Bicycle Facilities were provided with this plan only to uncover the VDOT NRO) to install the sign shown as existing on VDOT is scheduled (through coordination with


PRINCIPAL ENGINEER

Pavement Marking Plans
Permanent Signage Schedule
Roadway Design Plans
DESCRIPTION SHEETS, ETC.

Rinker Design Associates, P.C.

Prince William Pkwy (Rte. 234)

Prince William Pkwy N B (Rte. 234)

Prince William Pkwy Mill Rd (Rte 234)

Prince William Pkwy/Neith Rd.

Prince William Pkwy/Neith Rd.

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**Pavement Marking Legend**

- **A** Type B Class I, Yellow, 4" Width
- **B** Type B Class I, Yellow, 6" Width, 12', 30' Spacing
- **C** Type B Class I, Yellow, 6" Width, 4" Flange, 12', 30' Spacing
- **D** Type B Class I, White, 24" Width, 12', 20' Spacing @ 45°
- **E** Type B Class I, White, 24" Width, 12', 30' Spacing @ 45°
- **F** Type B Class I, White, 24" Width, 20', 30' Spacing @ 45°
- **G** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **H** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **I** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **J** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **K** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **L** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **M** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **N** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **O** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **P** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **Q** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **R** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **S** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **T** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **U** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **V** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **W** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **X** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **Y** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing
- **Z** Type B Class I, Yellow, 6" Flange, 12', 30' Spacing

**Note:**

- Revised sheet to include roundabout pavement marking.