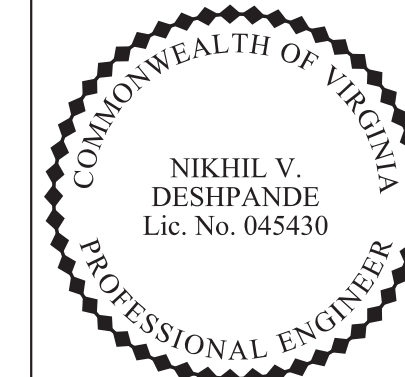


PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
 SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
 DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
 DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

Erosion & Sediment Control Plan: Phase I



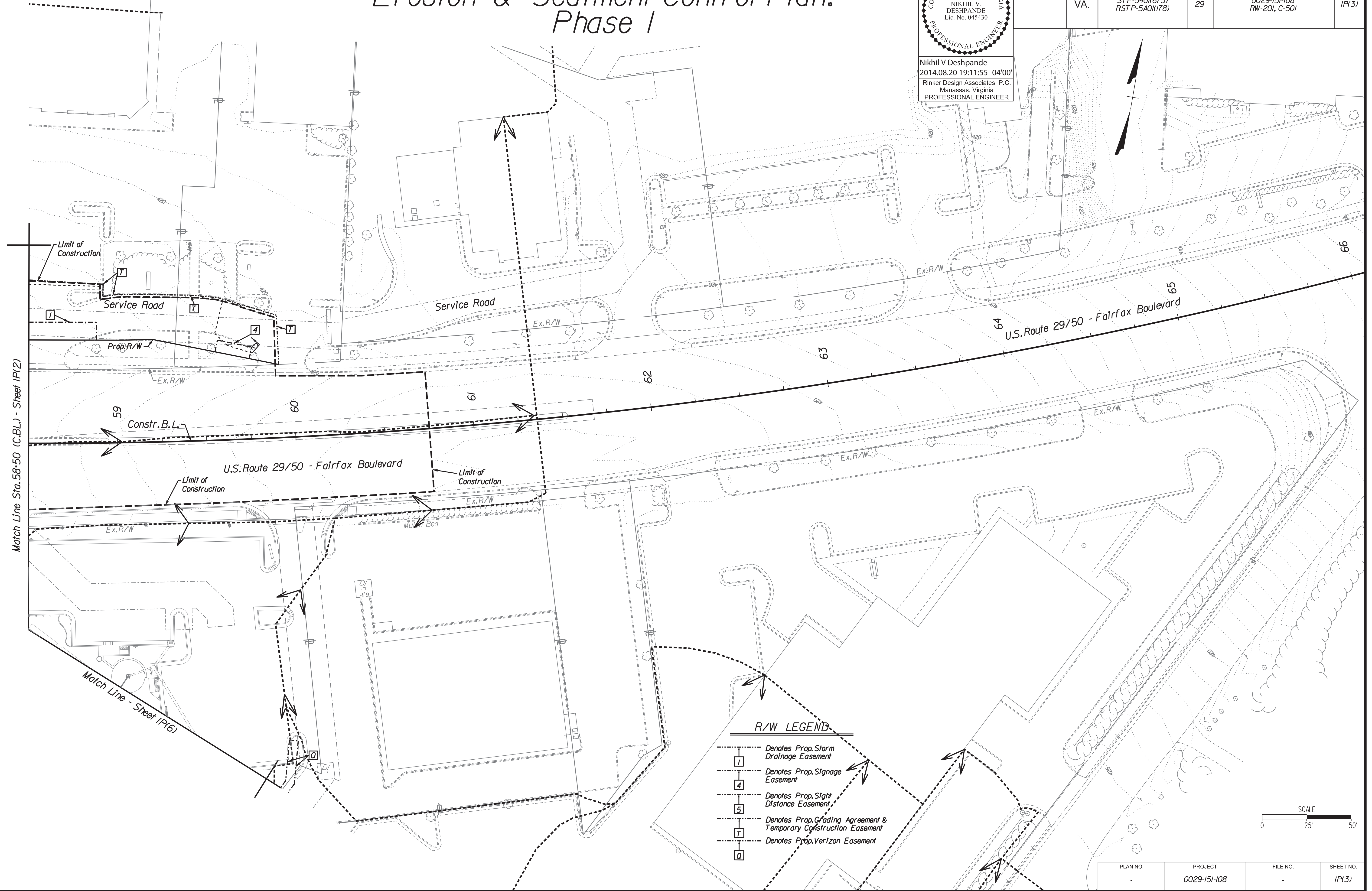
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 Rinker Design Associates, P.C.
 Manassas, Virginia
 PROFESSIONAL ENGINEER

| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
|----------|-------|-------------------------------|-------|-------------------------------|-----------|
| 08-23-13 | VA. | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | 1P(3) |



NORTHERN VIRGINIA DISTRICT

8/20/2014



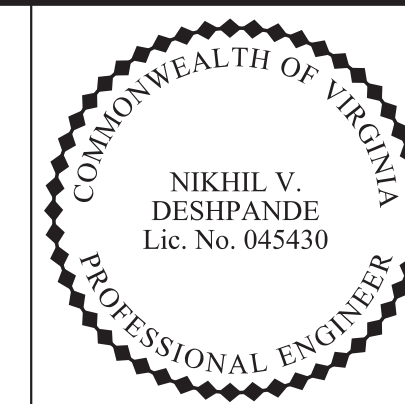
R/W LEGEND

- 1 --- Denotes Prop. Storm Drainage Easement
- 4 --- Denotes Prop. Signage Easement
- 5 --- Denotes Prop. Sight Distance Easement
- 7 --- Denotes Prop. Grading Agreement & Temporary Construction Easement
- 0 --- Denotes Prop. Verizon Easement

| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| - | 0029-151-108 | - | 1P(3) |

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
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Erosion & Sediment Control Plan: Phase I



Nikhil V. Deshpande
 2014.08.20 19:12:23 -04'00'
 Rinker Design Associates, P.C.
 Manassas, Virginia
 PROFESSIONAL ENGINEER

| | | | | | |
|---------------------|--------------|---|-------------|---|--------------------|
| REVISED 08-23-13 | STATE VA. | FEDERAL AID PROJECT OWNER STP-540(675) RSTP-540(178) | ROUTE 29 | STATE PROJECT 0029-151-108 RW-201, C-501 | SHEET NO. IP(4) |
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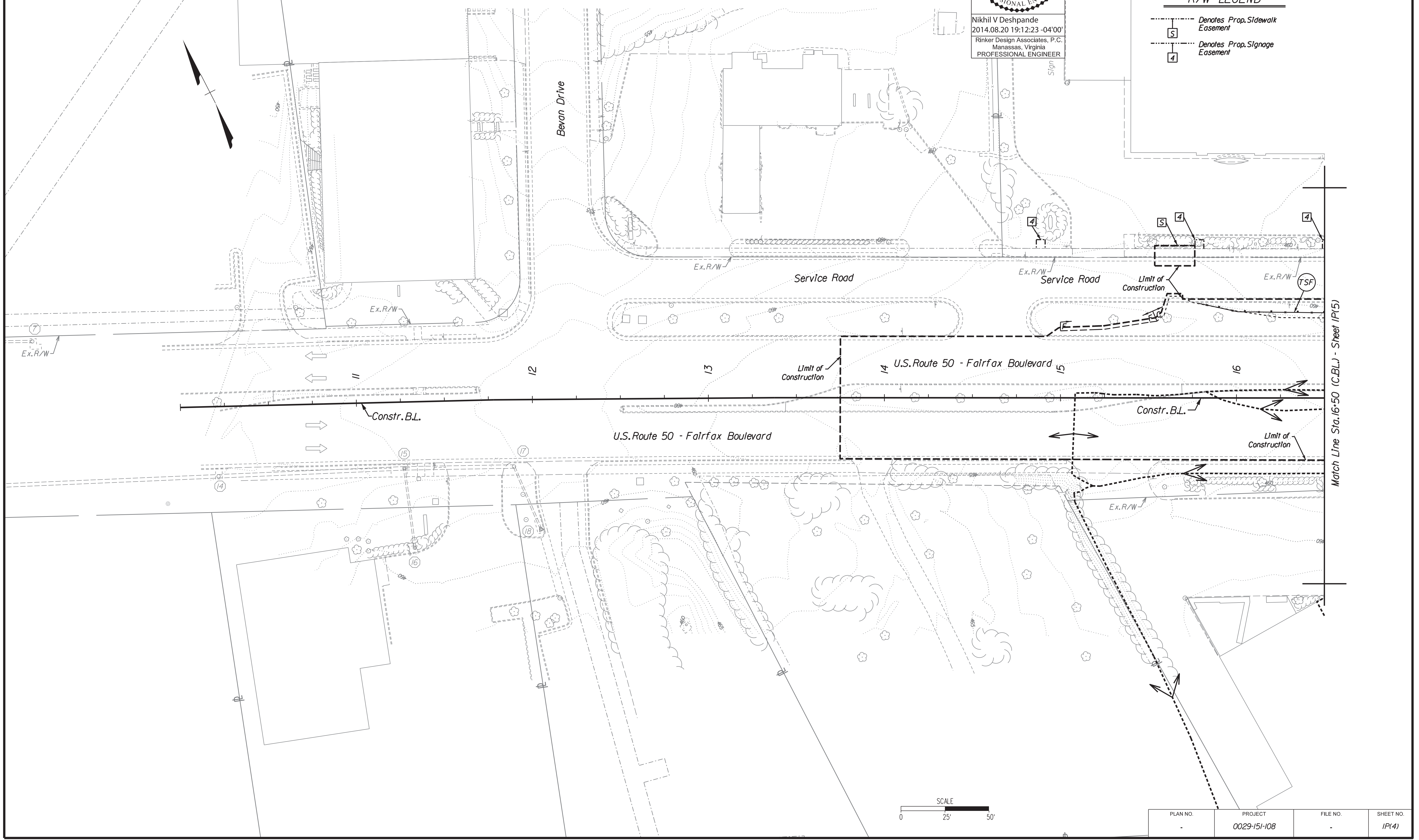
R/W LEGEND

- Denotes Prop. Sidewalk Easement
- Denotes Prop. Signage Easement

Rinker
 Design Associates, P.C.
 Civil Engineers
 Transportation - Environmental
 Right of Way Services

NORTHERN VIRGINIA DISTRICT

8/20/2014

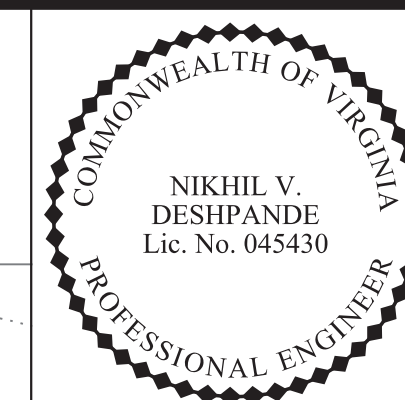


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| PLAN NO. | PROJECT 0029-151-108 | FILE NO. | SHEET NO. IP(4) |
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PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
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Erosion & Sediment Control Plan: Phase I



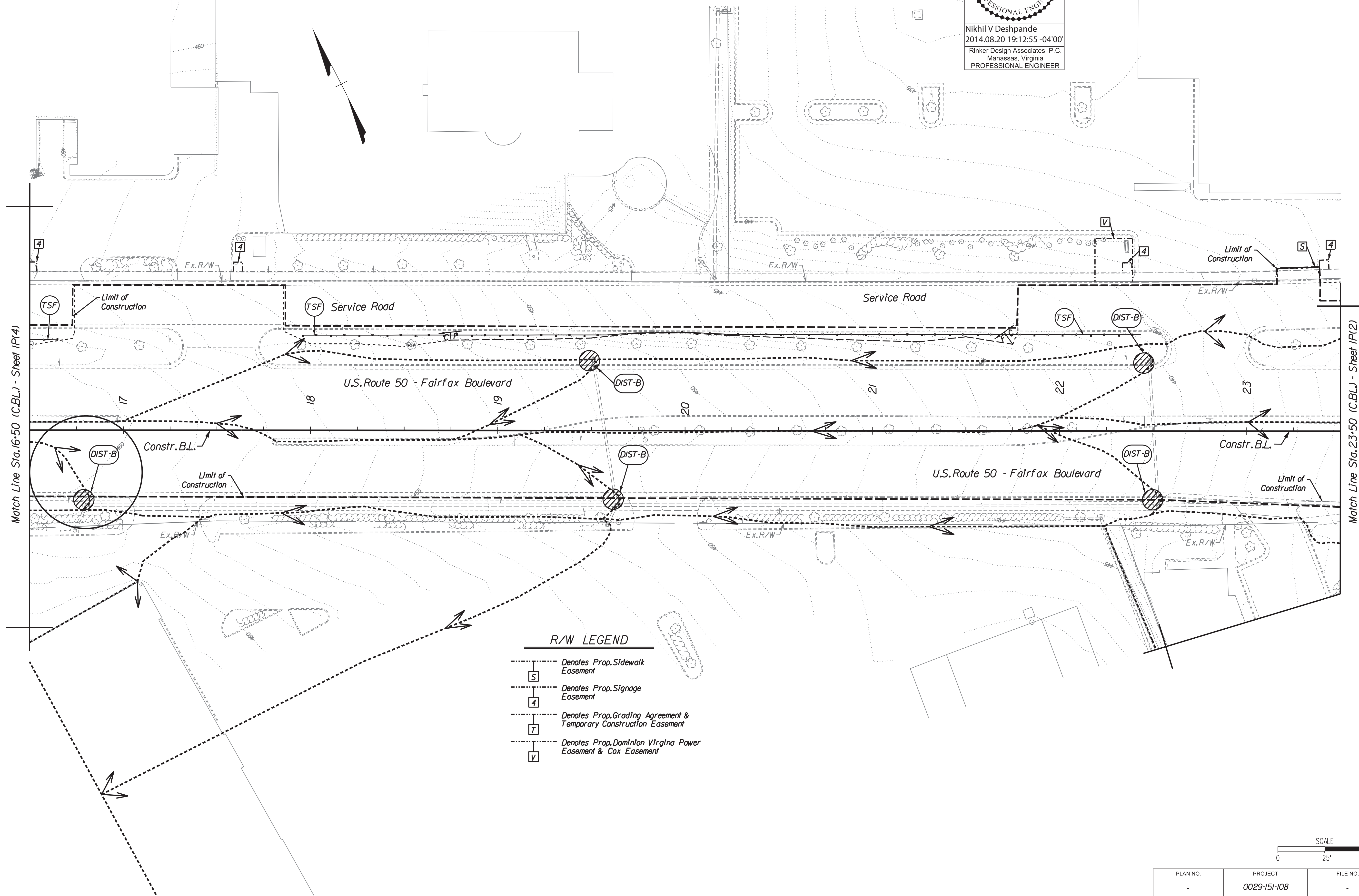
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Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

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| REVISED 08-23-13 | STATE VA. | FEDERAL AID PROJECT OWNER STP-540(675) RSTP-5A01(178) | ROUTE 29 | STATE PROJECT 0029-151-108 RW-201, C-501 | SHEET NO. IP(5) |
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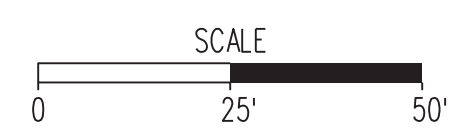
Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services

NORTHERN VIRGINIA DISTRICT

8/20/2014



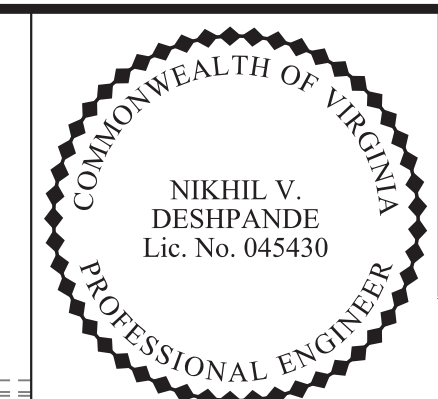
- R/W LEGEND**
- Denotes Prop. Sidewalk Easement
 - Denotes Prop. Signage Easement
 - Denotes Prop. Grading Agreement & Temporary Construction Easement
 - Denotes Prop. Dominion Virginia Power Easement & Cox Easement



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| PLAN NO. - | PROJECT 0029-151-108 | FILE NO. - | SHEET NO. IP(5) |
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Erosion & Sediment Control Plan: Phase I



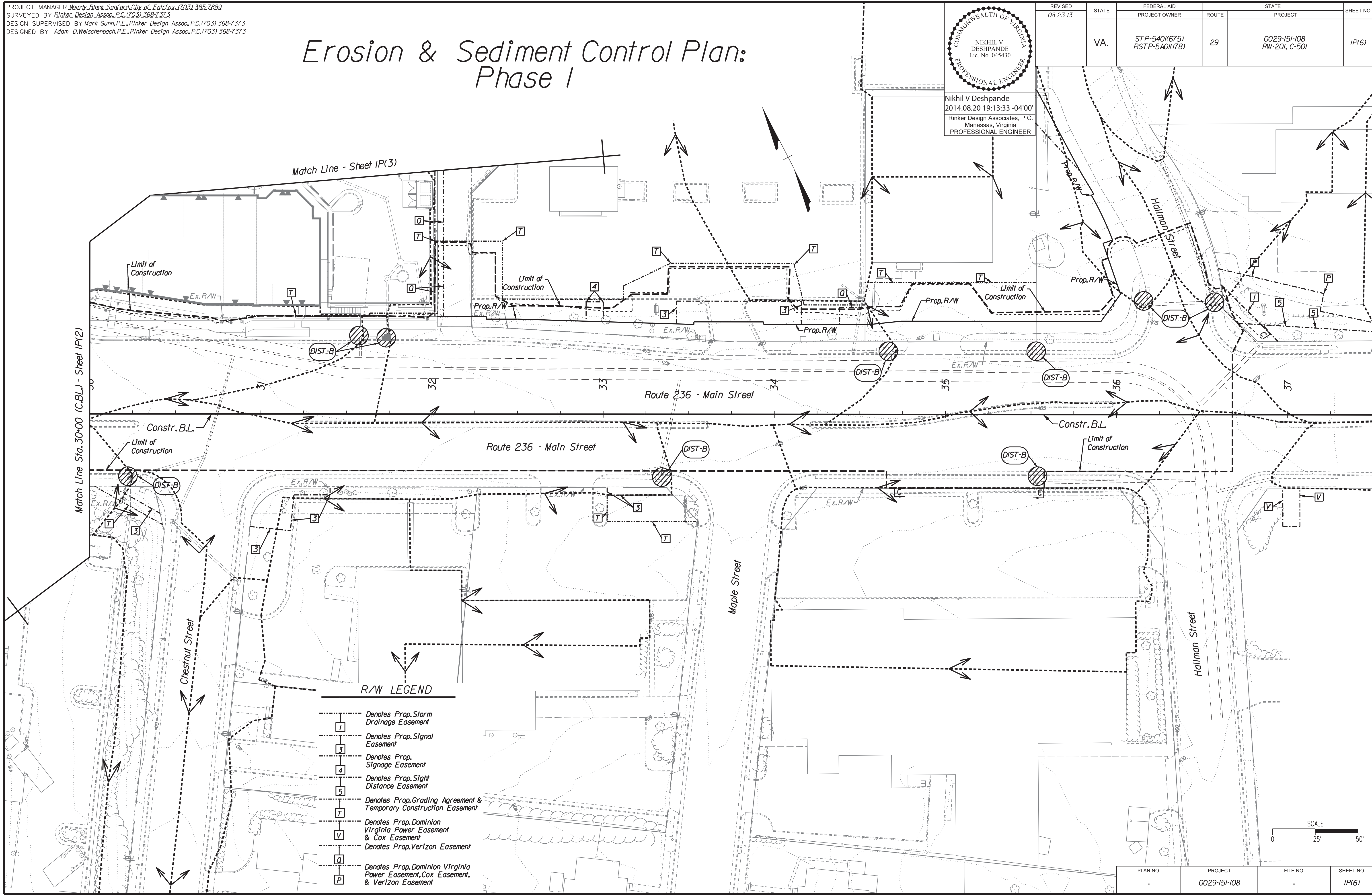
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Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
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| 08-23-13 | VA. | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | IP(6) |

Rinker Design Associates, P.C.
Civil Engineering, Transportation, Environmental
Right-of-Way Services

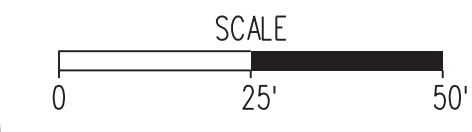
NORTHERN VIRGINIA DISTRICT

8/20/2014



R/W LEGEND

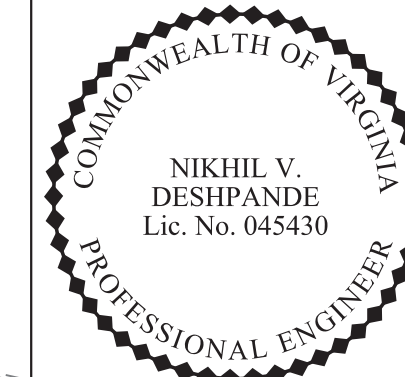
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- 7 Denotes Prop. Signal Easement
- 3 Denotes Prop. Signage Easement
- 4 Denotes Prop. Sight Distance Easement
- 5 Denotes Prop. Grading Agreement & Temporary Construction Easement
- 7 Denotes Prop. Dominion Virginia Power Easement & Cox Easement
- V Denotes Prop. Verizon Easement
- 0 Denotes Prop. Dominion Virginia Power Easement, Cox Easement, & Verizon Easement



| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
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| | 0029-151-108 | | IP(6) |

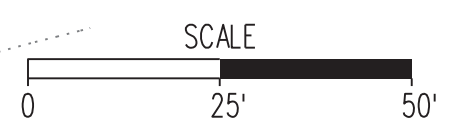
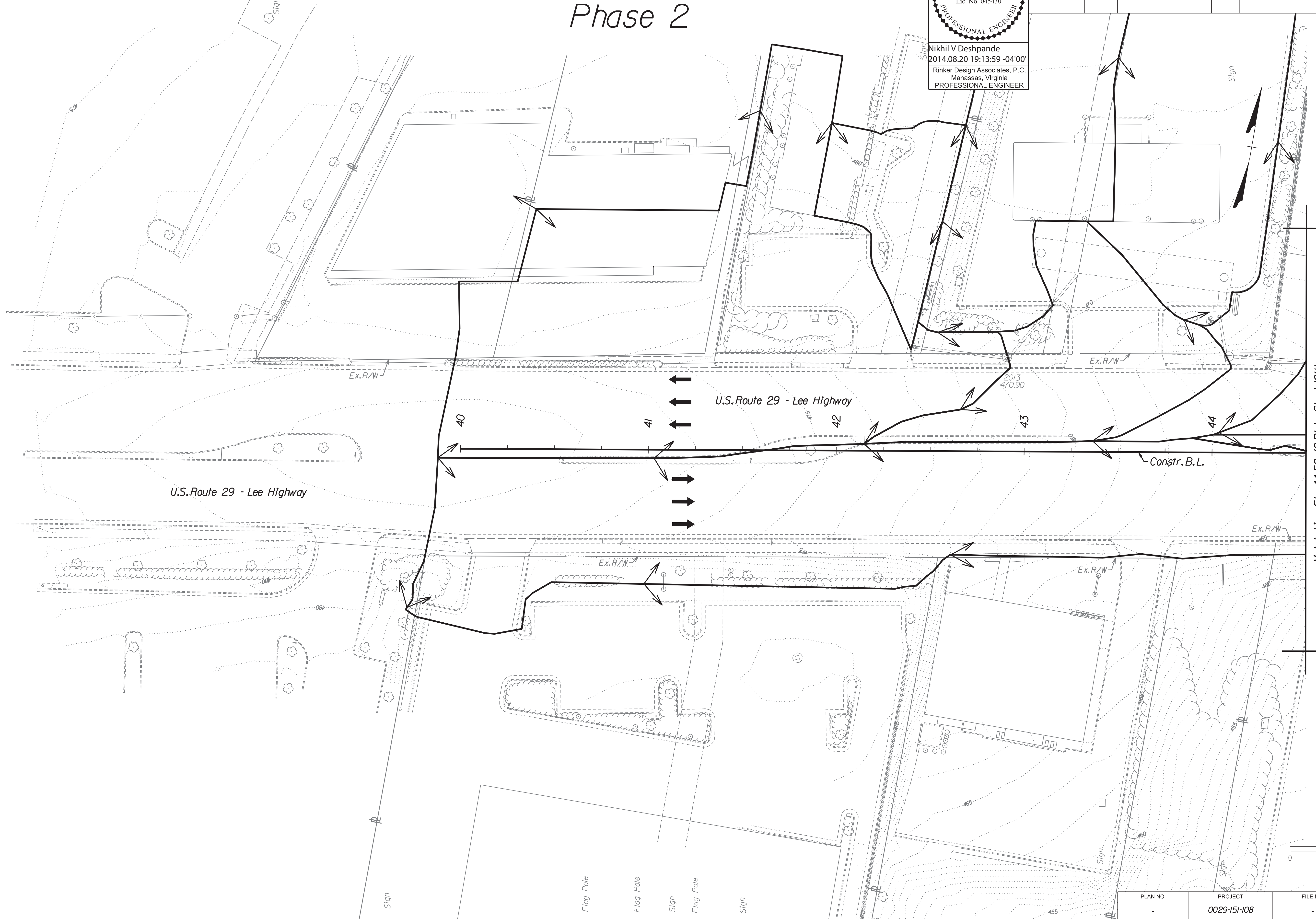
PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc. P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc. P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc. P.C. (703) 368-7373

Erosion & Sediment Control Plan: Phase 2



Nikhil V Deshpande
2014.08.20 19:13:59 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

| REVISED | STATE | FEDERAL AID | ROUTE | STATE | SHEET NO. |
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| 08-23-13 | VA. | PROJECT OWNER | | PROJECT | |
| | | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | 10 |



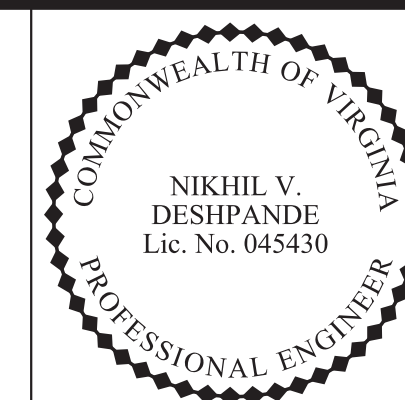
| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
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| | 0029-151-108 | | 10 |



NORTHERN VIRGINIA DISTRICT

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
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Erosion & Sediment Control Plan: Phase 2



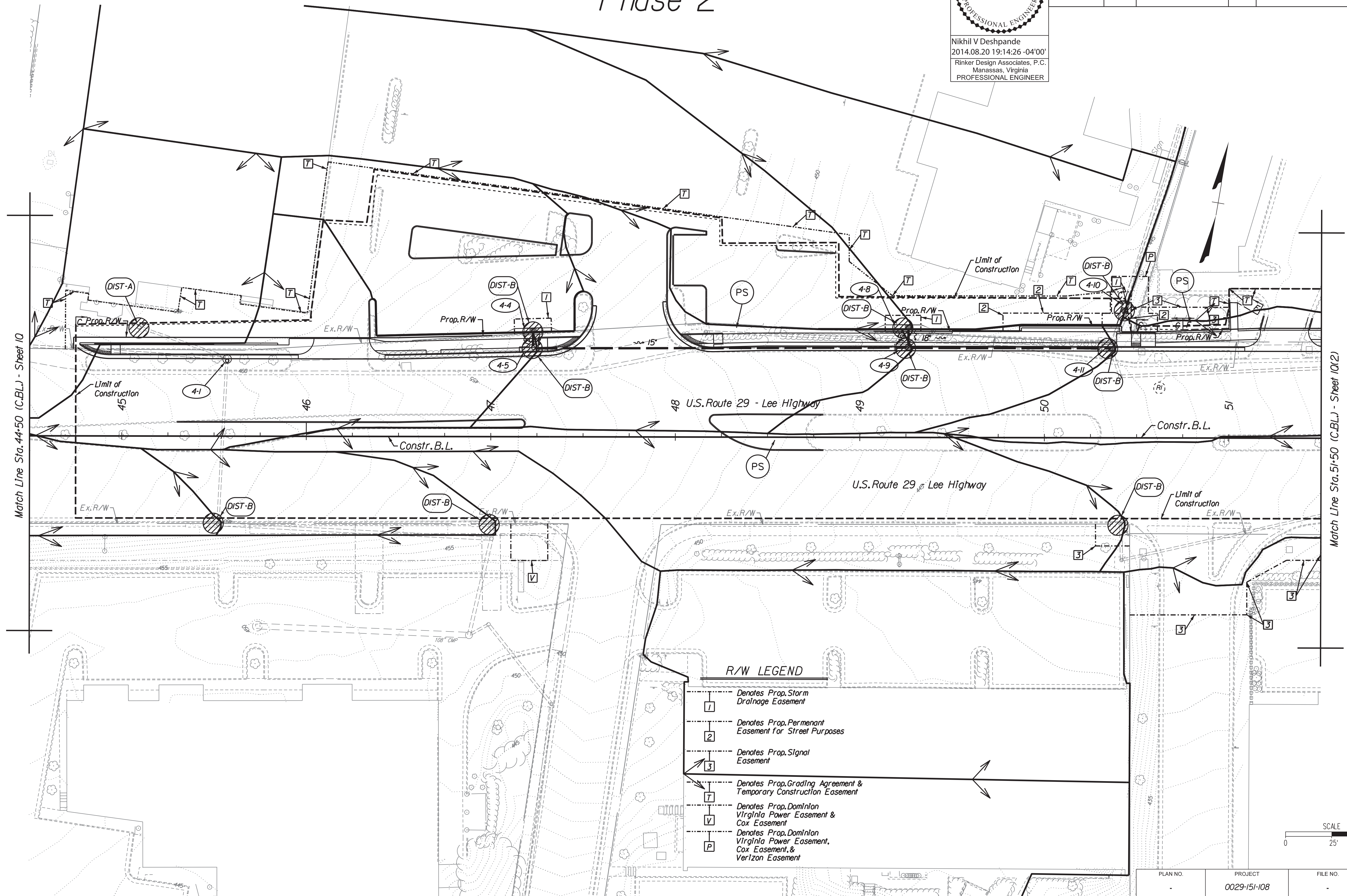
Nikhil V. Deshpande
2014.08.20 19:14:26 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

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| REVISED 08-23-13 | STATE VA. | FEDERAL AID PROJECT OWNER STP-540(675) RSTP-5A01(178) | ROUTE 29 | STATE PROJECT 0029-151-108 RW-201, C-501 | SHEET NO. 10(11) |
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Rinker Design Associates, P.C.
Civil Engineers
Transportation - Environmental
Right of Way Services

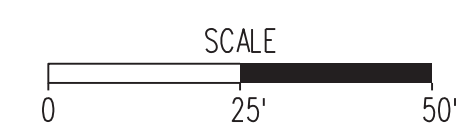
NORTHERN VIRGINIA DISTRICT

8/20/2014



R/W LEGEND

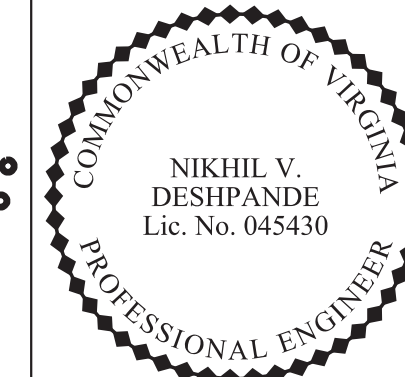
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- Denotes Prop. Permanent Easement for Street Purposes
- Denotes Prop. Signal Easement
- Denotes Prop. Grading Agreement & Temporary Construction Easement
- Denotes Prop. Dominion Virginia Power Easement & Cox Easement
- Denotes Prop. Dominion Virginia Power Easement, Cox Easement, & Verizon Easement



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| PLAN NO. | PROJECT 0029-151-108 | FILE NO. | SHEET NO. 10(11) |
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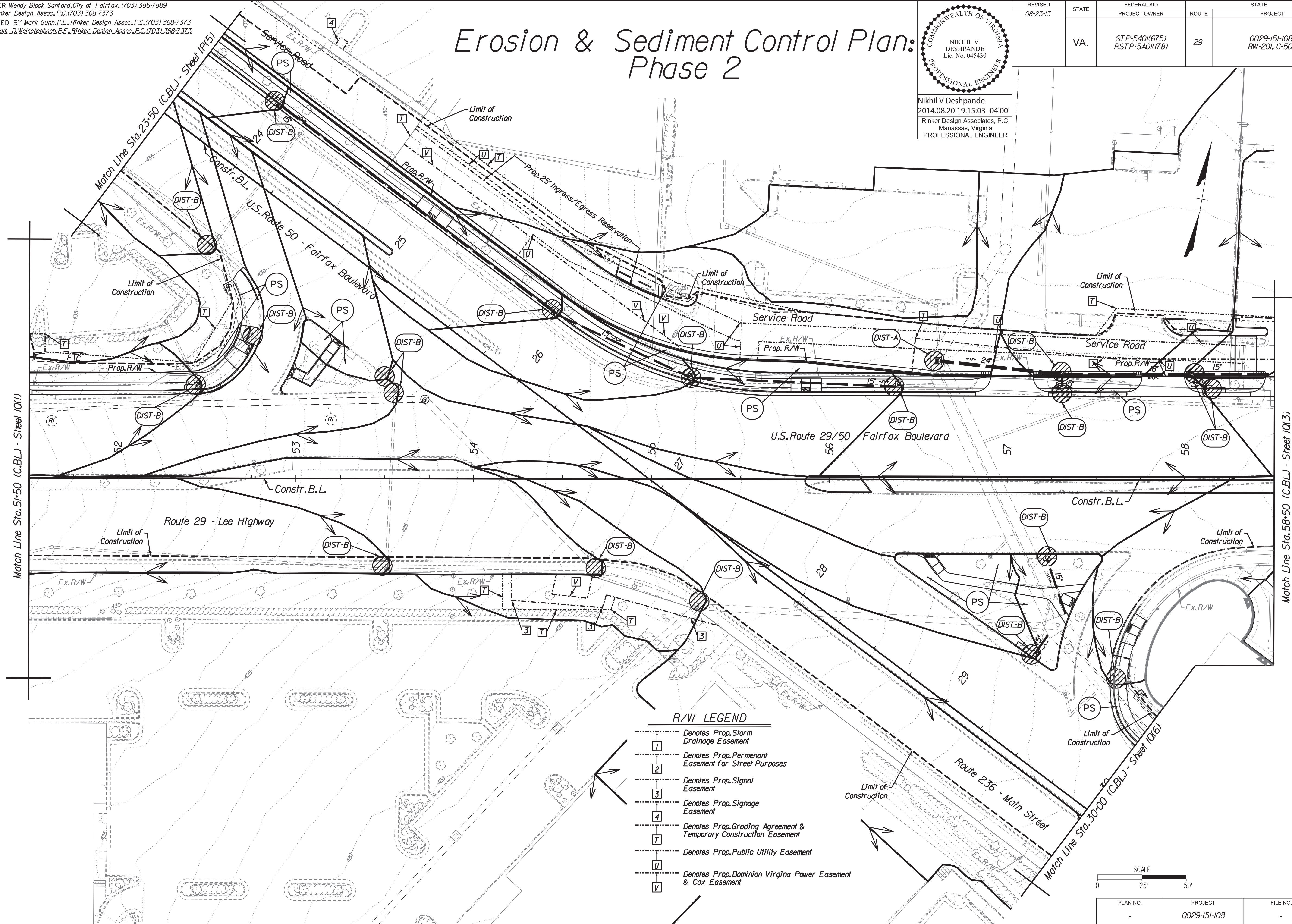
PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
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Erosion & Sediment Control Plan: Phase 2



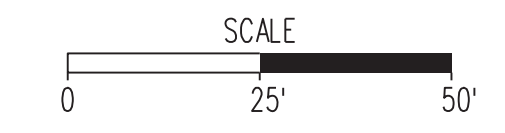
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2014.08.20 19:15:03 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

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| REVISED 08-23-13 | STATE VA. | FEDERAL AID PROJECT OWNER STP-5401(675) RSTP-5401(178) | ROUTE 29 | STATE PROJECT 0029-151-108 RW-201, C-501 | SHEET NO. 101(2) |
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R/W LEGEND

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| 1 | Denotes Prop. Storm Drainage Easement |
| 2 | Denotes Prop. Permanent Easement for Street Purposes |
| 3 | Denotes Prop. Signal Easement |
| 4 | Denotes Prop. Signage Easement |
| 7 | Denotes Prop. Grading Agreement & Temporary Construction Easement |
| U | Denotes Prop. Public Utility Easement |
| V | Denotes Prop. Dominion Virginia Power Easement & Cox Easement |



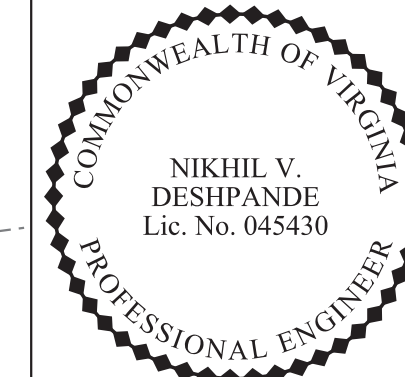
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| PLAN NO. | PROJECT 0029-151-108 | FILE NO. | SHEET NO. 101(2) |
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Rinker Design Associates, P.C.
Civil Engineering, Surveying, Environmental
Transportation, Right of Way Services

NORTHERN VIRGINIA DISTRICT

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
 SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
 DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
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Erosion & Sediment Control Plan: Phase 2



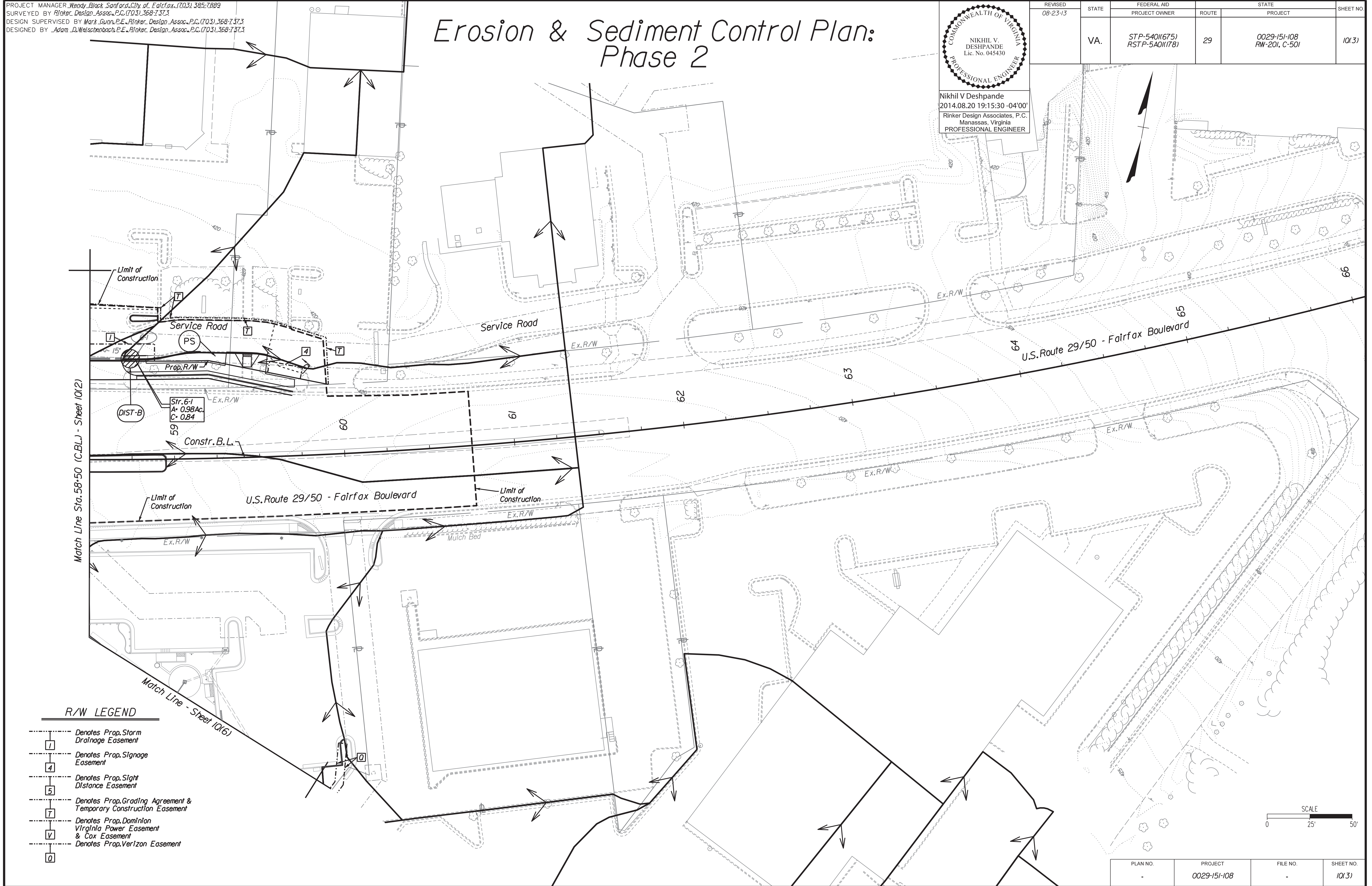
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 Rinker Design Associates, P.C.
 Manassas, Virginia
 PROFESSIONAL ENGINEER

| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
|----------|-------|-------------------------------|-------|-------------------------------|-----------|
| 08-23-13 | VA. | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | 10(3) |

Rinker
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 Civil Engineering - Environmental
 Transportation - Right of Way Services

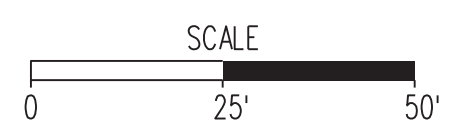
NORTHERN VIRGINIA DISTRICT

8/20/2014



R/W LEGEND

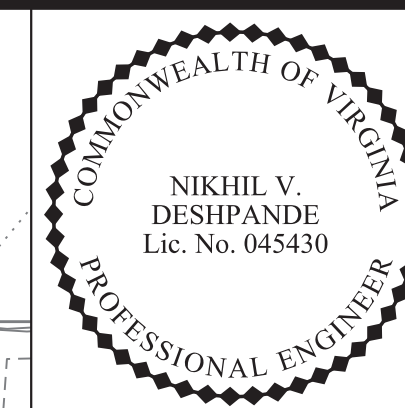
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| | Denotes Prop. Verizon Easement |



| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
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| - | 0029-151-108 | - | 10(3) |

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Erosion & Sediment Control Plan: Phase 2



Nikhil V. Deshpande
 2014.08.20 19:15:58 -04'00'
 Rinker Design Associates, P.C.
 Manassas, Virginia
 PROFESSIONAL ENGINEER

| REVISION | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
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| 08-23-13 | VA. | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | 10(4) |

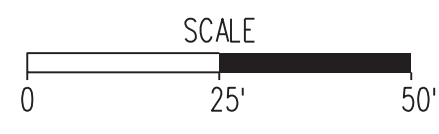
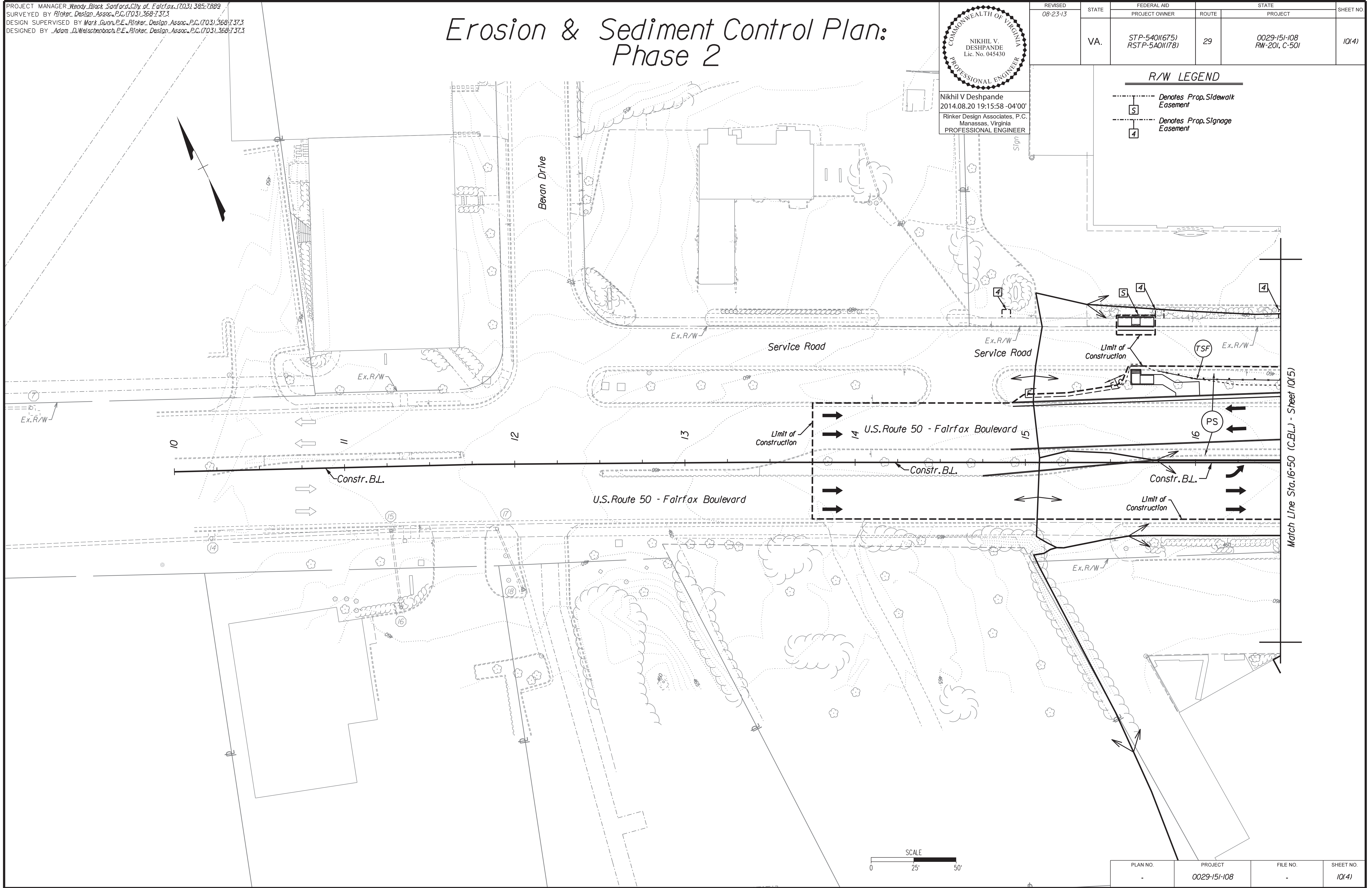
R/W LEGEND

- Denotes Prop. Sidewalk Easement
- Denotes Prop. Signage Easement

Rinker
 Design Associates, P.C.
 Civil Engineers
 Environmental
 Transportation
 Right of Way Services

NORTHERN VIRGINIA DISTRICT

8/20/2014



| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| - | 0029-151-108 | - | 10(4) |

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
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Erosion & Sediment Control Plan: Phase 2

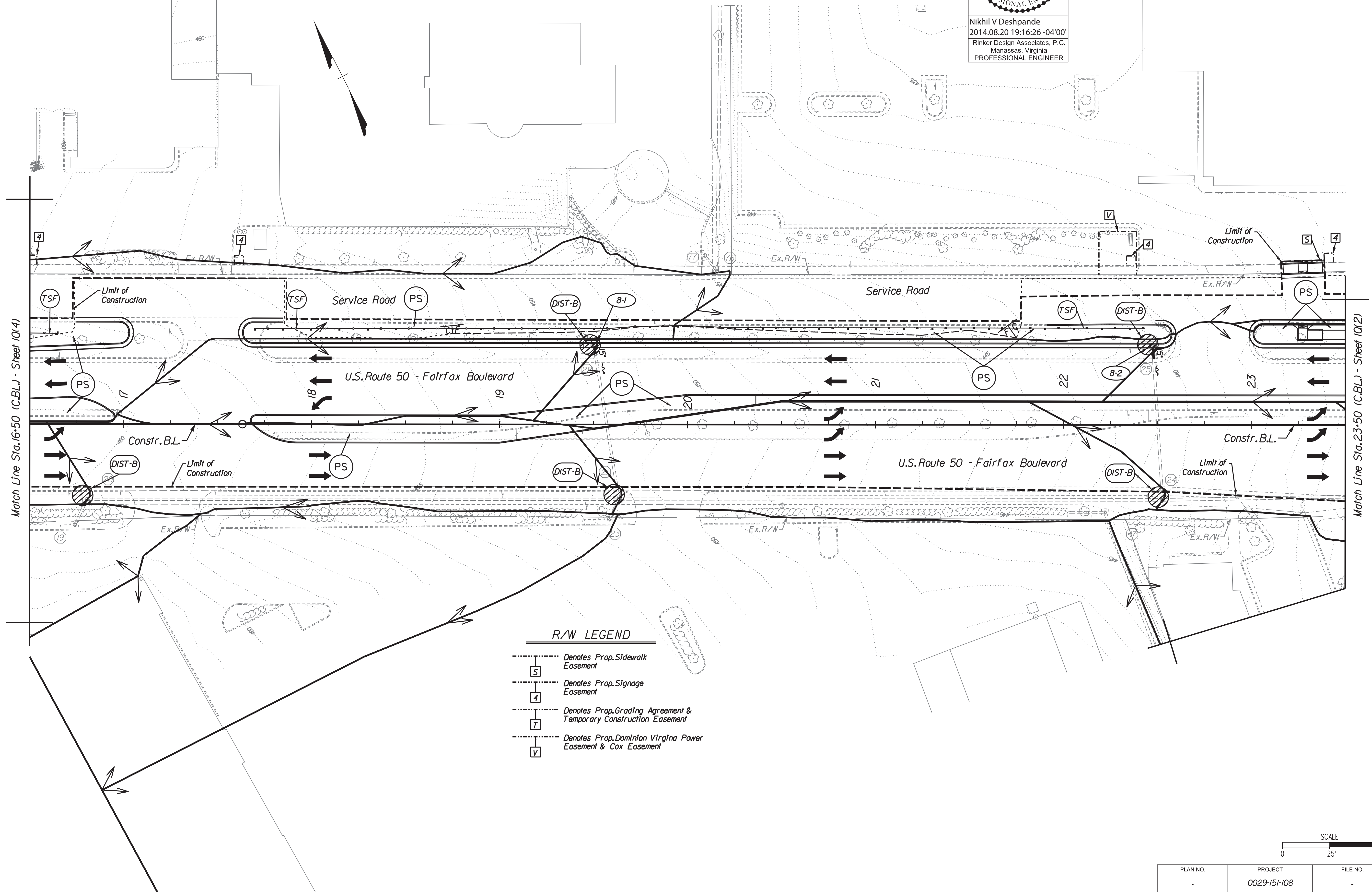
COMMONWEALTH OF VIRGINIA
 PROFESSIONAL ENGINEER
 NIKHIL V. DESHPANDE
 Lic. No. 045430
 2014.08.20 19:16:26 -04'00'
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 Manassas, Virginia
 PROFESSIONAL ENGINEER

| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
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| 08-23-13 | VA. | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | 10(5) |

Rinker
 Design Associates, P.C.
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 Transportation - Environmental
 Right of Way Services

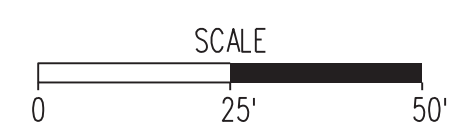
NORTHERN VIRGINIA DISTRICT

8/20/2014



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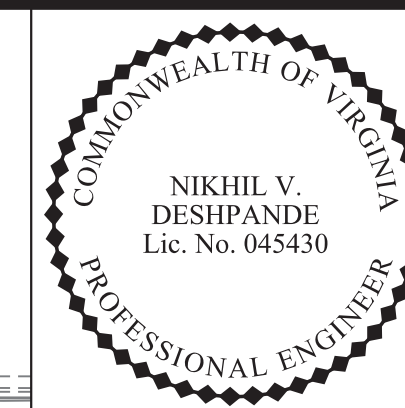
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| | Denotes Prop. Signage Easement |
| | Denotes Prop. Grading Agreement & Temporary Construction Easement |
| | Denotes Prop. Dominion Virginia Power Easement & Cox Easement |



| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
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Erosion & Sediment Control Plan: Phase 2



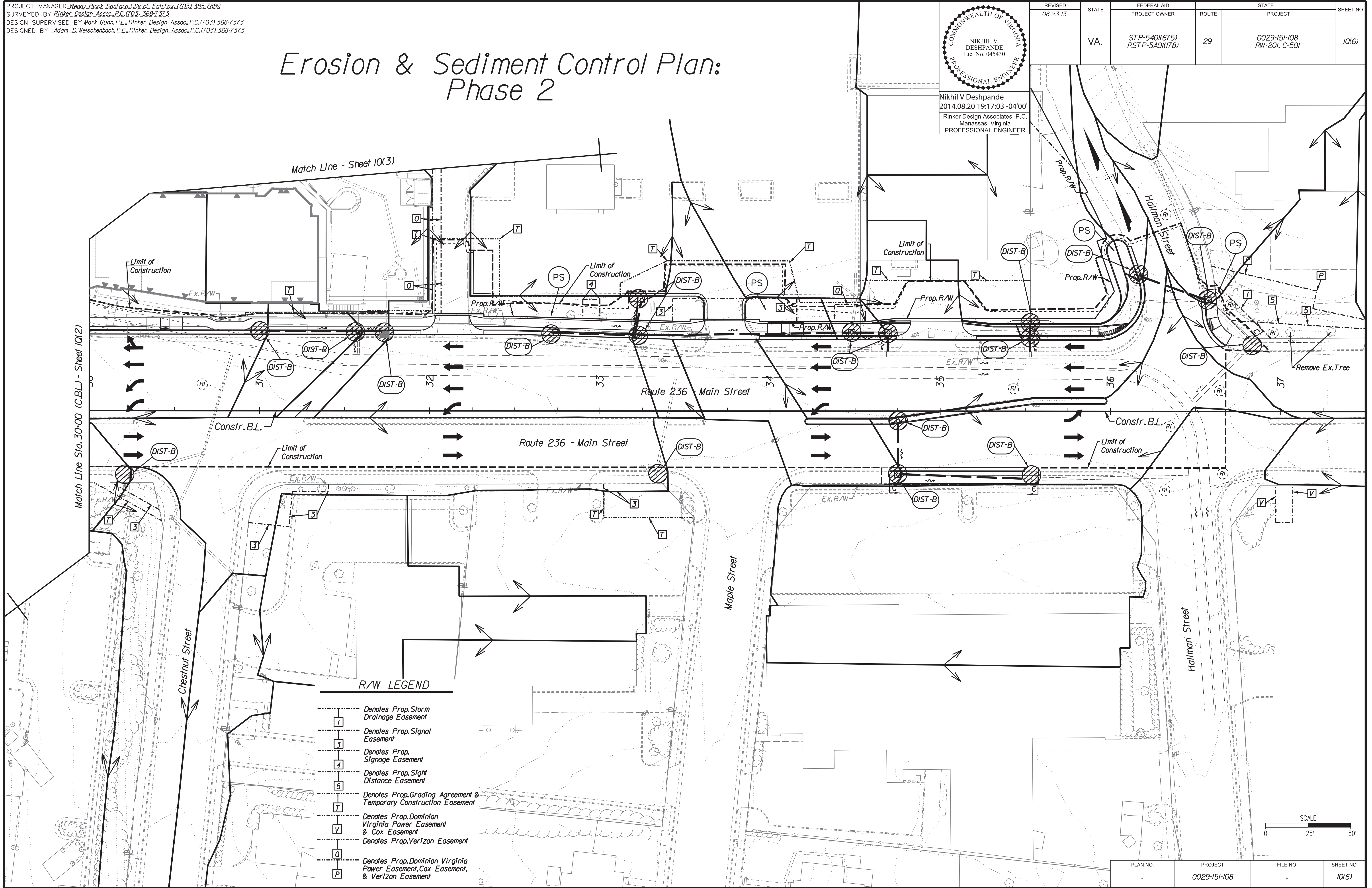
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Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

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| 08-23-13 | VA. | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | 10(6) |

Rinker Design Associates, P.C.
Civil Engineering, Transportation, Environmental, Right-of-Way Services

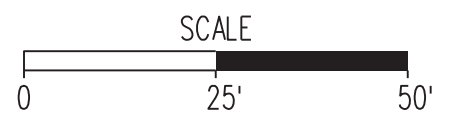
NORTHERN VIRGINIA DISTRICT

8/20/2014



R/W LEGEND

- 1 --- Denotes Prop. Storm Drainage Easement
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- 4 --- Denotes Prop. Signage Easement
- 5 --- Denotes Prop. Sight Distance Easement
- 7 --- Denotes Prop. Grading Agreement & Temporary Construction Easement
- V --- Denotes Prop. Dominion Virginia Power Easement & Cox Easement
- Q --- Denotes Prop. Verizon Easement
- P --- Denotes Prop. Dominion Virginia Power Easement, Cox Easement, & Verizon Easement



| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| | 0029-151-108 | | 10(6) |

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 DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

Project General Notes & Legend

| REVISED | STATE | FEDERAL AID | | STATE | | SHEET NO. |
|---------|-------|--------------------------------|-------|-------------------------------|--|-----------|
| | | PROJECT OWNER | ROUTE | PROJECT | | |
| | VA. | STP-540(675) RSTP-5A01(178) | 29 | 0029-151-108 RW-201, C-501 | | 2 |

GRADING GENERAL NOTES

- G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.
- G-4 The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: Small Footings, Light Pole/Signal Pole Foundations, End Walls, Drop Inlets, Manholes, Pipes, Concrete Pipes, Concrete Slabs, Curb, Curb and Gutter, Concrete Sidewalk, Asphalt Sidewalk, Brick Items, Foundation Slabs.
- G-5 The excavation of unsuitable material as specified on these plans is based on previously conducted subsurface soil investigation. If, during construction, it is deemed necessary to change the depth more than 1 foot (0.3 m) or the limits of such excavation, such change shall be made in the direction of the Engineer and measurement and payment shall be made in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications.
- G-6 The borrow material for this project shall be a minimum CBR 30 or as approved by the Materials Engineer.
- G-7 Material from regular excavation which is suitable for stabilization with hydraulic cement (lime) shall be placed in the top portion of the subgrade.

DRAINAGE GENERAL NOTES

- D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.
- D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If, during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.
- D-3 The "H" dimensions shown on the plans for drop inlets and junction boxes and the "LF" dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "LF" dimensions are to be determined by the contractor from field conditions.
- D-6 Pipes shall conform to any of the allowable types shown on sheet number 2K12 within the applicable height of cover limitations. For strength, sheet thickness, or class designation, available sizes, height of cover limitations and other restrictions for a particular pipe type or height of cover, see the VDOT Road and Bridge Standard PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size and a structural plate pipe arch may be substituted for a corrugated pipe arch of the same size, provided the substitution complies with the applicable sections of the VDOT Road and Bridge Standard PC-1.
- D-12 All existing drainage facilities labeled "To Be Abandoned" shall be left in place, backfilled and plugged in accordance with the VDOT Road and Bridge Standard PP-1. Basis of Payment will be C.Y. (m³) of Flowable Backfill.
- D-13 Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out", shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.
- D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards shall be considered and paid for as Standard Drop Inlets for the type specified.
- D-16 When Standard CG-6 or CG-7 is specified on a radius (such as at a street intersection), the Engineer may approve a decrease in the cross slope of the gutter to facilitate proper drainage.
- D-17 S'd SL-1 Safety slab locations are based on the assumed use of precast structures. If cast-in-place structures are utilized, and the interior chamber dimensions (length and width, or diameter) are less than 4 feet, the safety slabs shall not be installed.

PAVEMENT GENERAL NOTES

- P-1 If any settlement occurs in concrete pavement adjacent to bridges prior to acceptance of the project by the Department, the contractor shall restore the pavement to the original grade either by the mud jack method or by replacing the pavement. In the event the pavement cracks or becomes damaged, it shall be replaced, if directed by the Engineer.
- P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of theoretical maximum density. (See IIM-LD-158)

INCIDENTAL GENERAL NOTES

- I-3 Service Roads are to be constructed, and private entrances connected thereto prior to the permanent severing of private entrances by other phases of the proposed construction.
- I-6 Certain trees shall be preserved as noted on plans or as directed by the Engineer.
- I-9 When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.
- I-12 S'd, RM-2 right of way monuments shall be set by the Contractor.
- I-16 The "Underground Utilities" survey data on this project has been provided by consultant and copies are available from the City of Fairfax.
- I-17 For method of constructing Straight-Line Taper Lanes in Curb and/or Curb and gutter sections, see typical details on Sheet 2A thru 2A15.
- I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan sheets II thru II(31) and as directed by the Engineer.
- I-19 The following outside sources, under contract with VDOT, have provided information on this project:
 Hydraulic Design Rinker Design Associates, P.C.
 Roadway Design Rinker Design Associates, P.C.
 Utility Design Rinker Design Associates, P.C. (water & sanitary only)
 Utility Designation Cardno TBE
 Utility Location Cardno TBE and Rinker Design Associates, P.C.
 Survey Rinker Design Associates, P.C.
 Bridge Design NZA
 Traffic Design Rinker Design Associates, P.C.
 Landscape Design NZA
 If questions or problems arise during construction, please contact the City Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.



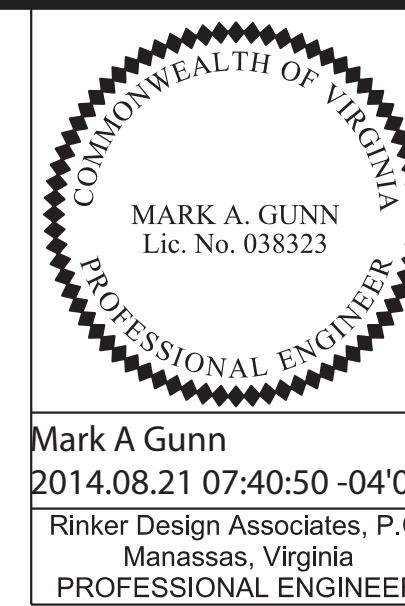
NORTHERN VIRGINIA DISTRICT

| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| - | 0029-151-108 | - | 2 |

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

TYPICAL SECTIONS

(Not to Scale)



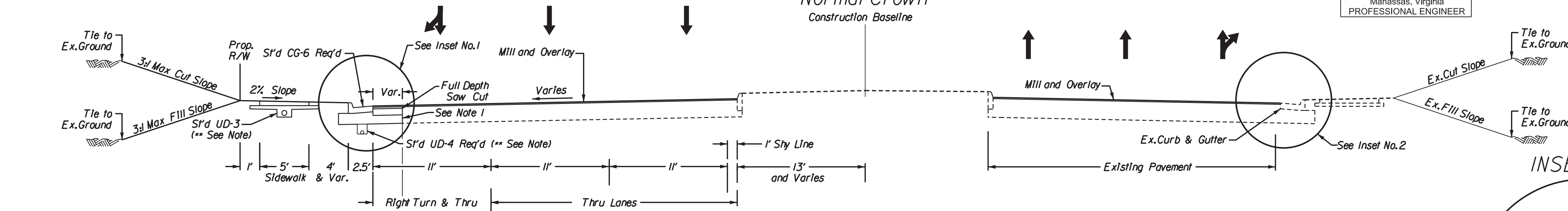
Mark A Gunn
2014.08.21 07:40:50 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
|----------|-------|---------------------------------|-------|-------------------------------|-----------|
| 08-23-13 | VA. | STP-5401(675) RSTP-5401(178) | 29 | 0029-151-108 RW-201, C-501 | 2A(1) |

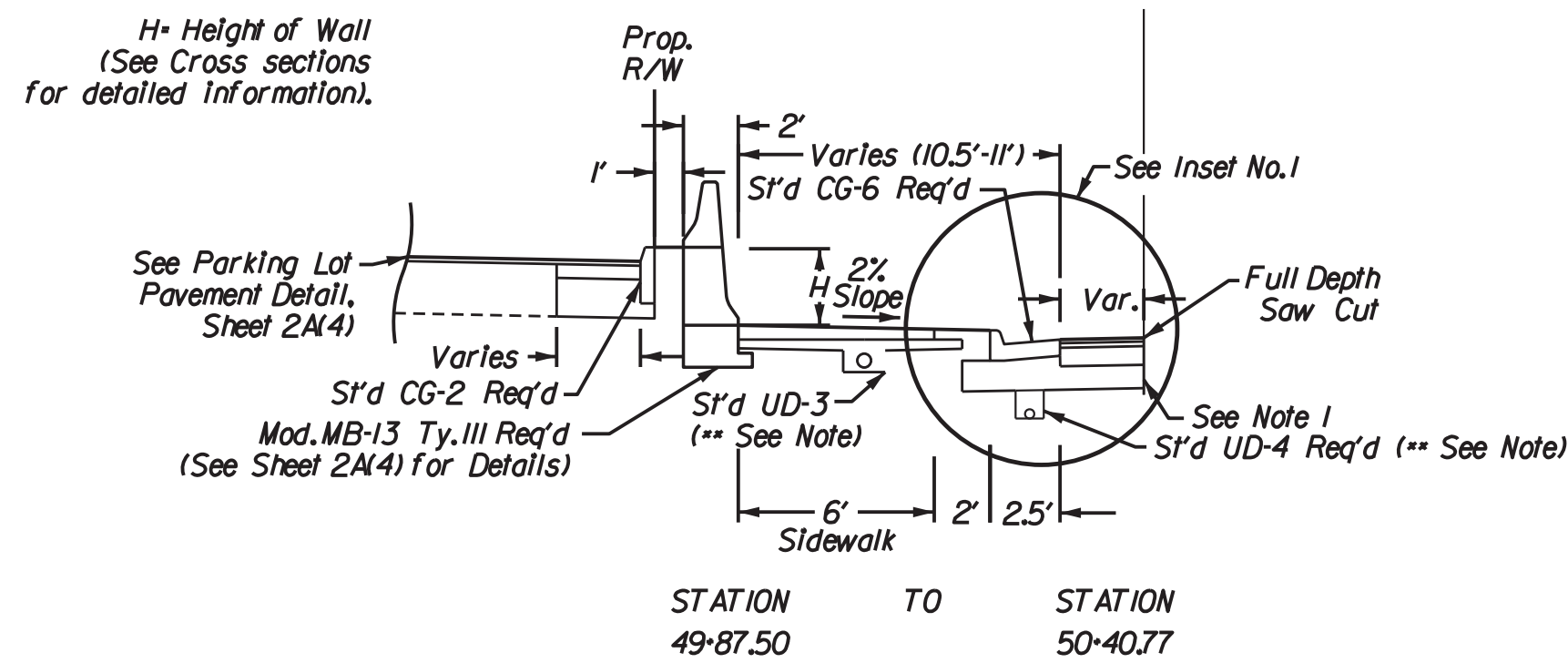
See Geotechnical Report for pavement design, geotechnical information and additional details. Report prepared by Geo-Technology Associates, Inc. See Sheet 2A(5) for details.

Lee Highway, Route 29

Normal Crown
Construction Baseline

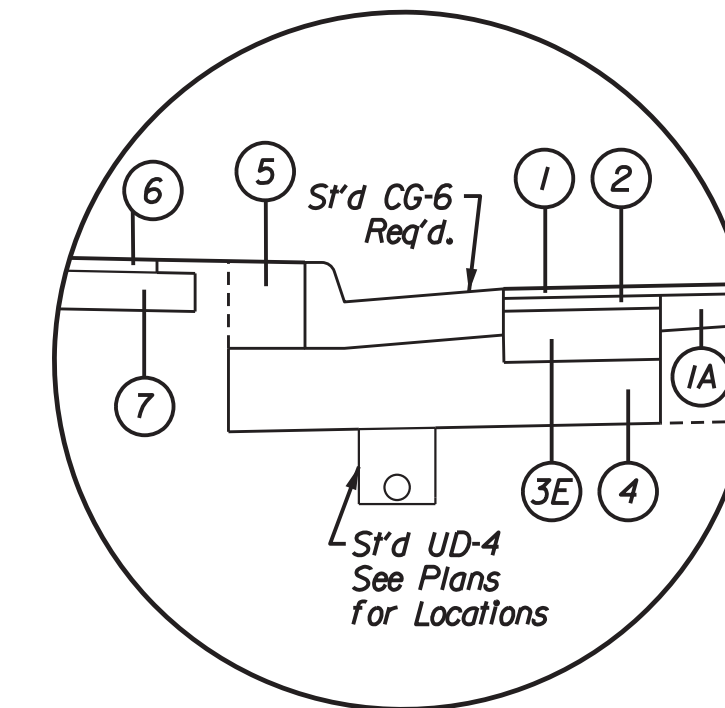


STATION 49-87.50 TO STATION 54-98.70

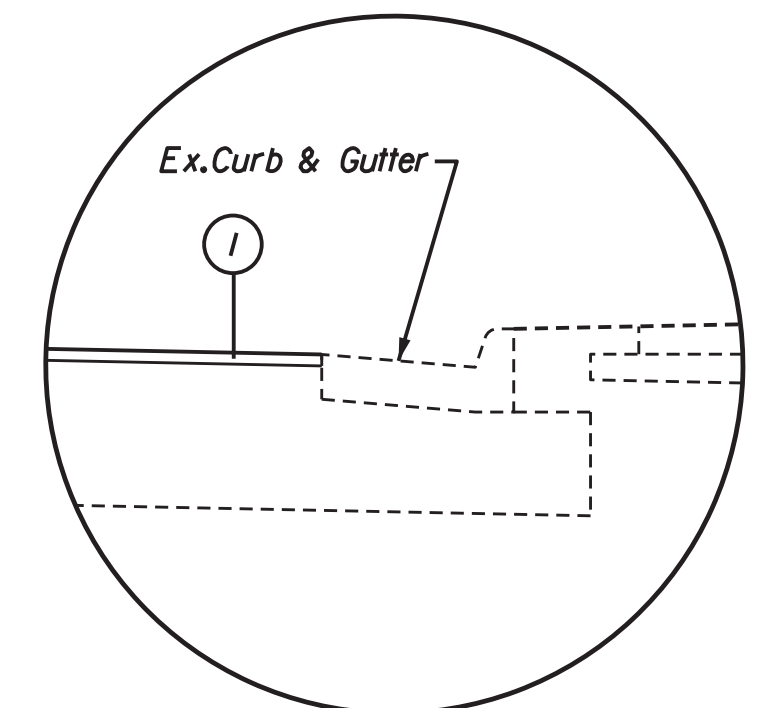


STATION 49-87.50 TO STATION 50-40.77

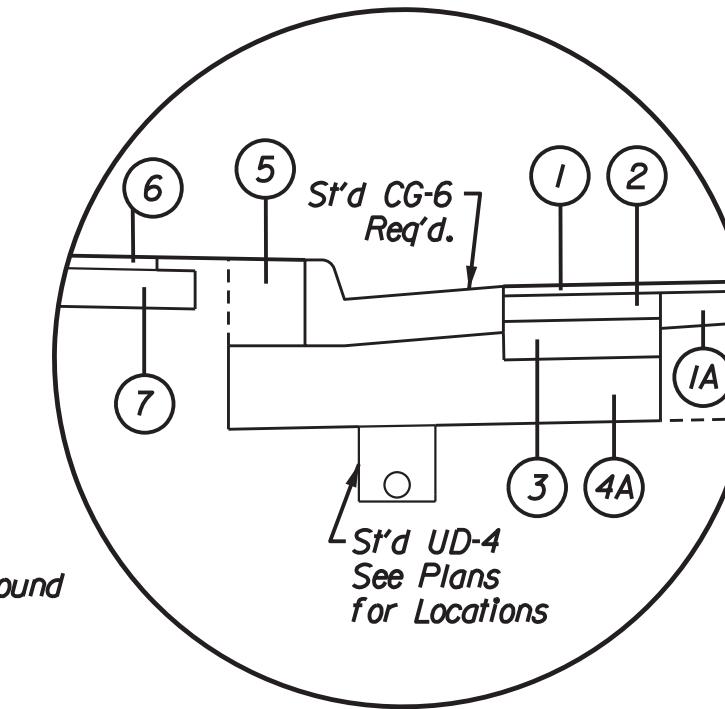
INSET NO. 1



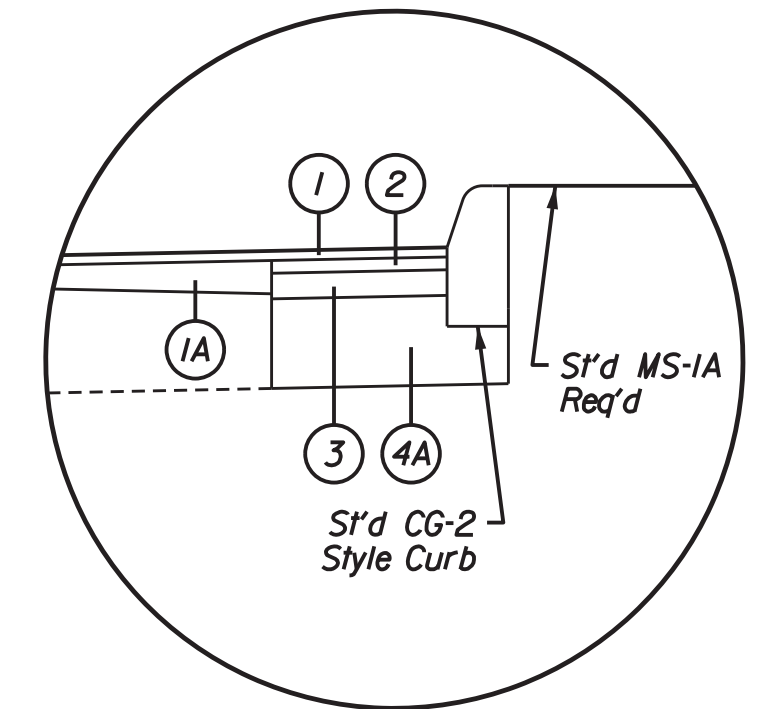
INSET NO. 2



INSET NO. 4

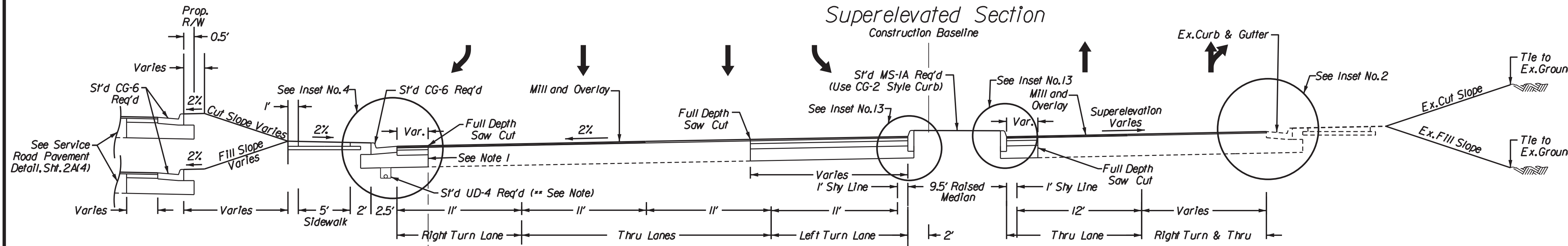


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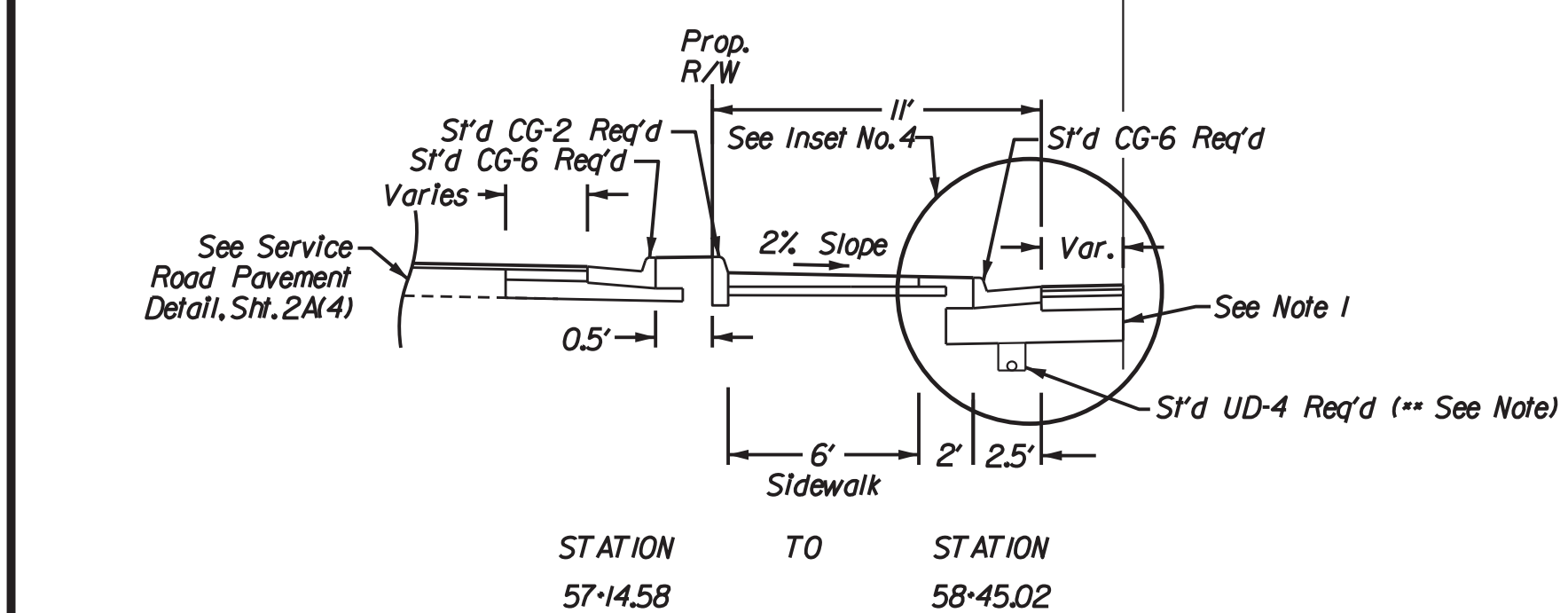


Fairfax Boulevard, Route 29 / Route 50

Superelevated Section
Construction Baseline



STATION 54-98.70 TO STATION 58-95.20



STATION 57-14.58 TO STATION 58-45.02

- 1 Surface Course - (2") Asphalt Concrete, Type SM-9.5D @ 220 lbs/sqyd.
- 1A Pavement Build-up - See Sheet 2A(4) for detail. Existing pavement shall be milled 2" prior to pavement build-up.
- 2 Intermediate Course - (2") Asphalt Concrete, Type IM-19.0A @ 220 lbs/sqyd.
- 3 Base Course - (7") Asphalt Concrete, Type BM-25.0A @ 122 lb/sqyd/1in.
- 3E Base Course - (8") Asphalt Concrete, Type BM-25.0A @ 122 lb/sqyd/1in.
- 4 Sub-Base Course - (10") Aggregate Base Material, Type 1, Size No. 21B Connected to UD-4 edge drains beneath the curb, or curb and gutter.
- 4A Sub-Base Course - (14") Aggregate Base Material, Type 1, Size No. 21B Connected to UD-4 edge drains beneath the curb, or curb and gutter.
- 5 Regular F111 Material to be compacted in accordance with VDOT Road and Bridge Specifications.
- 6 Sidewalk - (4") Class A3 Hydraulic Cement Concrete.
- 7 Base Course - (4") Aggregate Base Material Type 1, Size 21A extended 6' beyond the edge of the sidewalk.

**NOTE: See Underdrain Details on Sheets 13 to 13(6) for locations of standard underdrains
NOTE 1: Pavement widening to be in accordance with VDOT S'D WP-2.

| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| - | 0029-151-108 | - | 2A(1) |

Rinker Design Associates, P.C.
Civil Engineering
Transportation - Environmental
Right of Way Services

NORTHERN VIRGINIA DISTRICT

PROJECT MANAGER Wendy Block, Sanford, City of Fairfax, (703) 385-7889
 SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
 DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
 DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

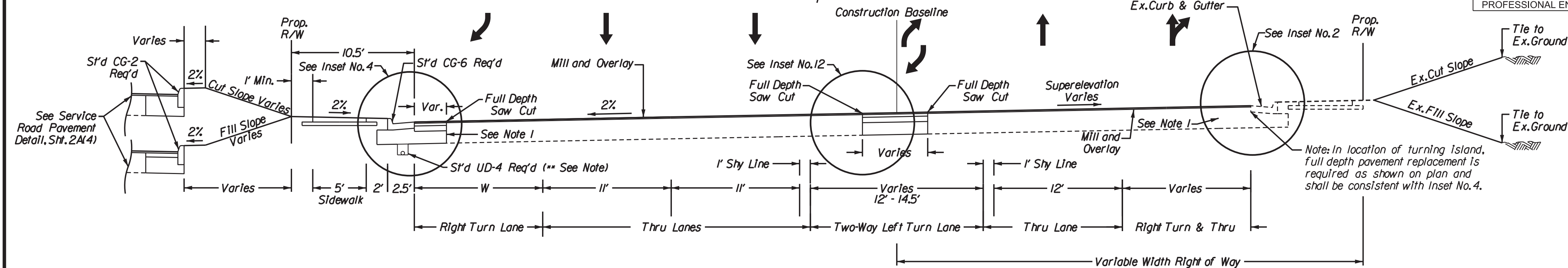
See Geotechnical Report for pavement design, geotechnical information and additional details. Report prepared by Geo-Technology Associates, Inc. See Sheet 2A(5) for details.

TYPICAL SECTIONS

(Not to Scale)

Fairfax Boulevard, Route 29 / Route 50

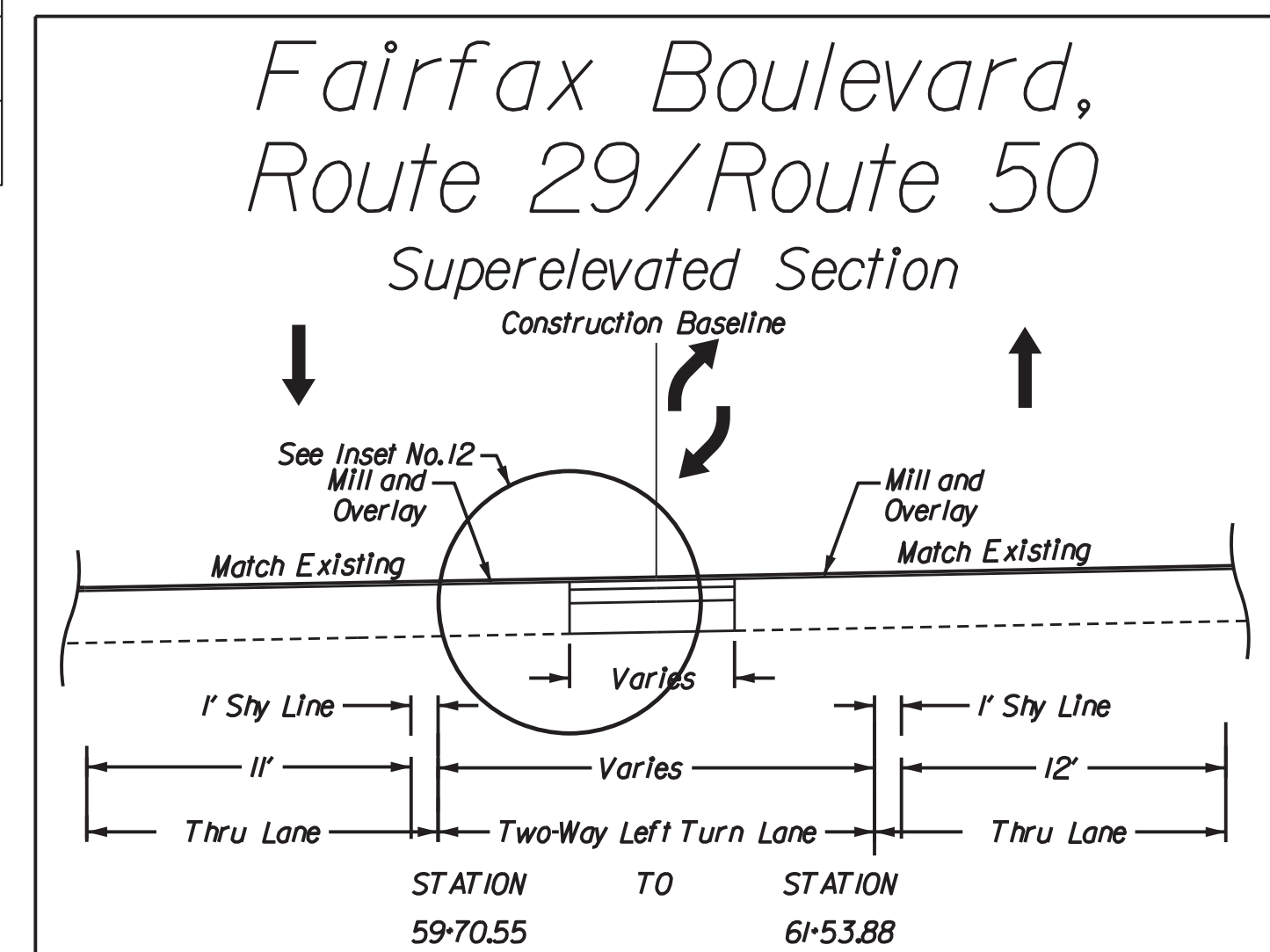
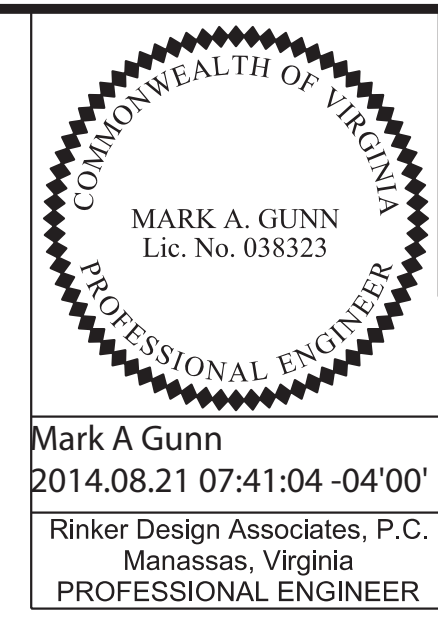
Superelevated Section



| STATION TO | STATION | W |
|------------|----------|--------|
| 58-95.20 | 59-20.80 | 11' |
| 59-20.80 | 59-70.55 | 0'-11" |

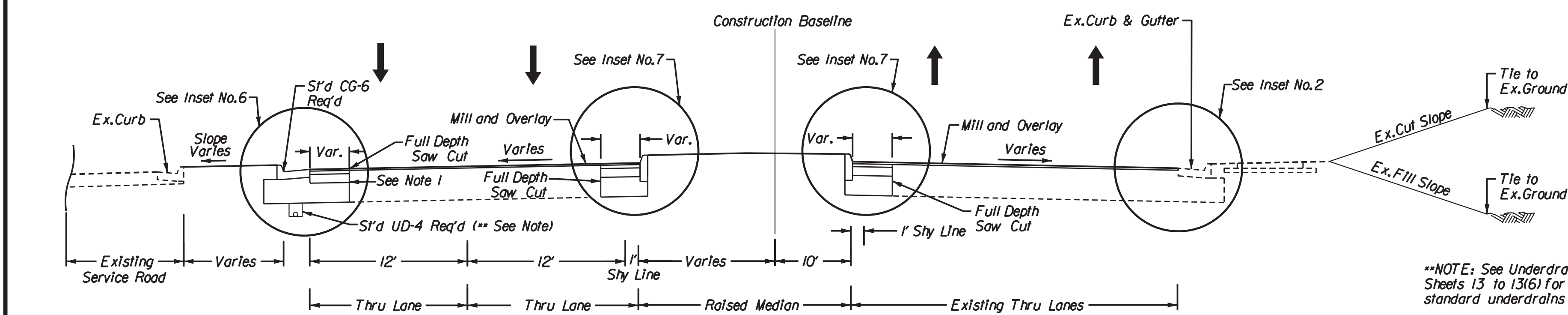
Note: From Station 59-70.55 to Station 61-53.85, the existing median concrete is removed and full depth pavement shall be installed per Inset No. 12.

| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
|----------|-------|-------------------------------|-------|-------------------------------|-----------|
| 08-23-13 | VA. | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | 2A(2) |



Fairfax Boulevard - Route 50

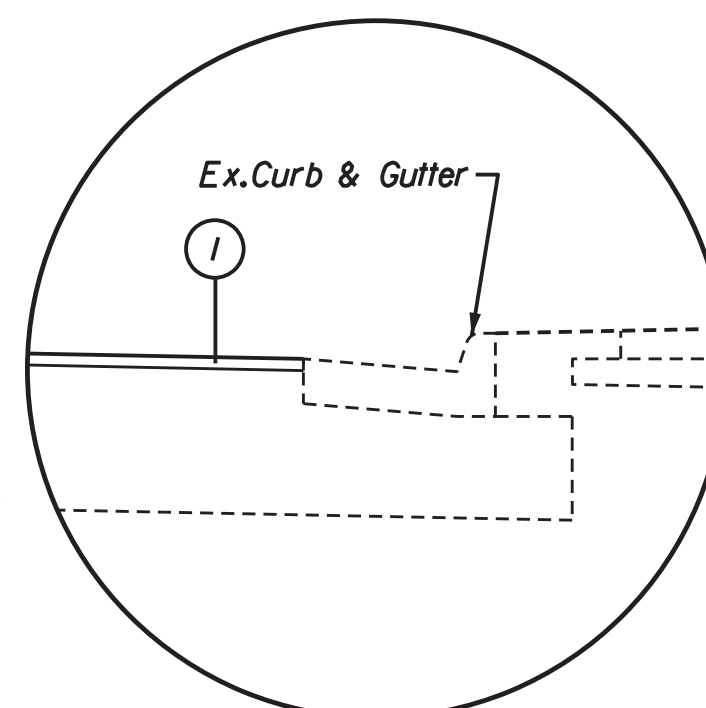
Normal Crown



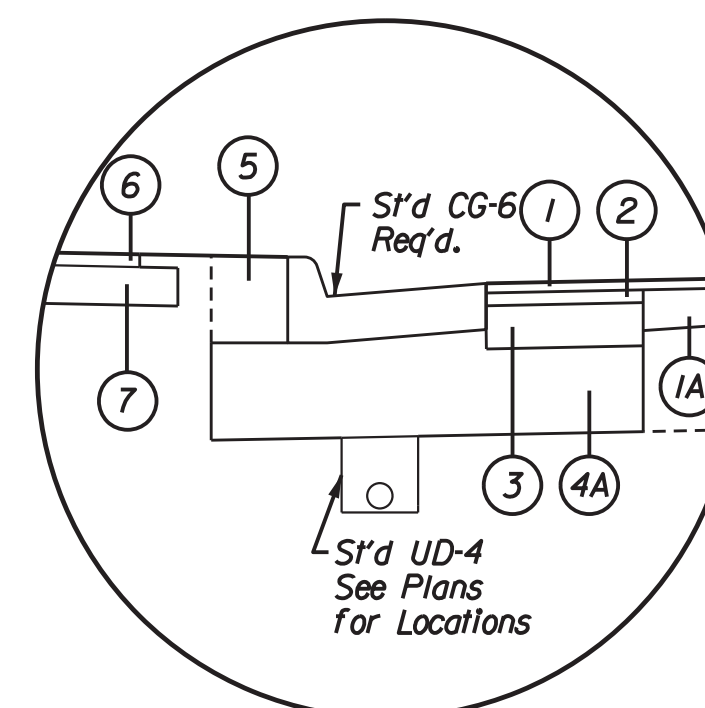
| STATION TO | STATION | W |
|------------|---------|---|
| 14-75.00 | 17-61J8 | |

**NOTE: See Underdrain Details on Sheets 13 to 13(6) for locations of standard underdrains.
 NOTE 1: Pavement widening to be in accordance with VDOT SR'd WP-2.

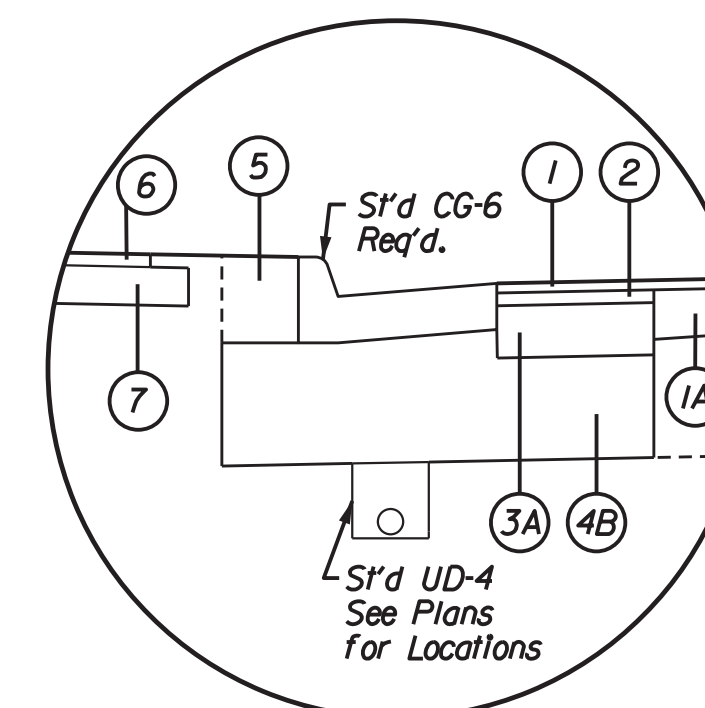
INSET NO. 2



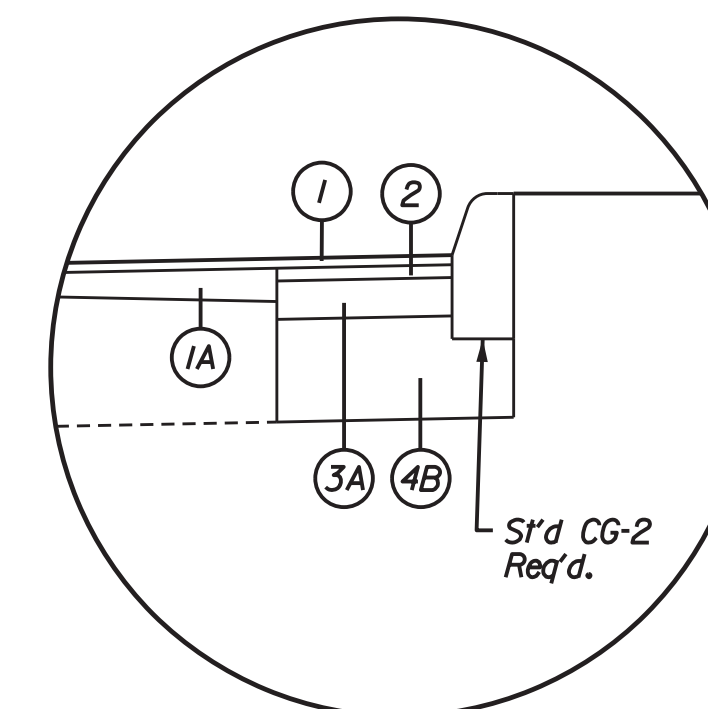
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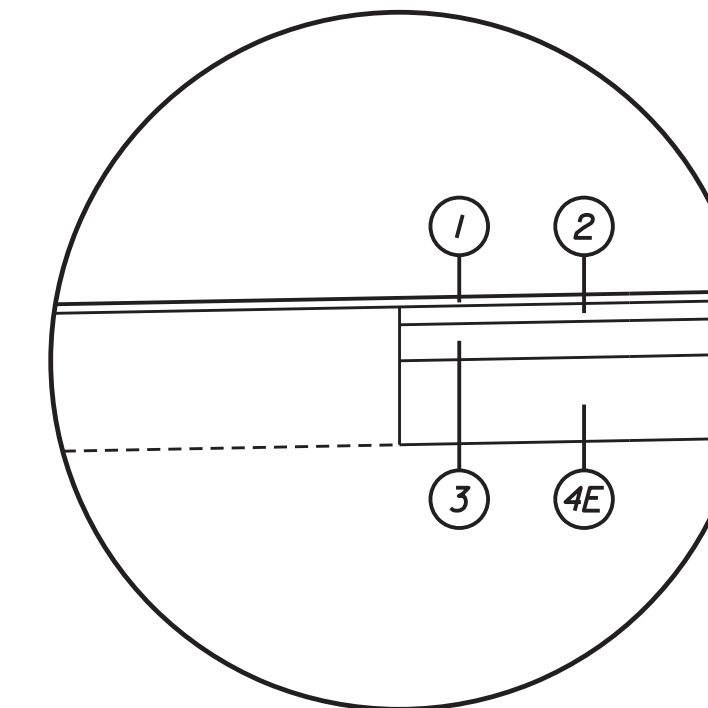
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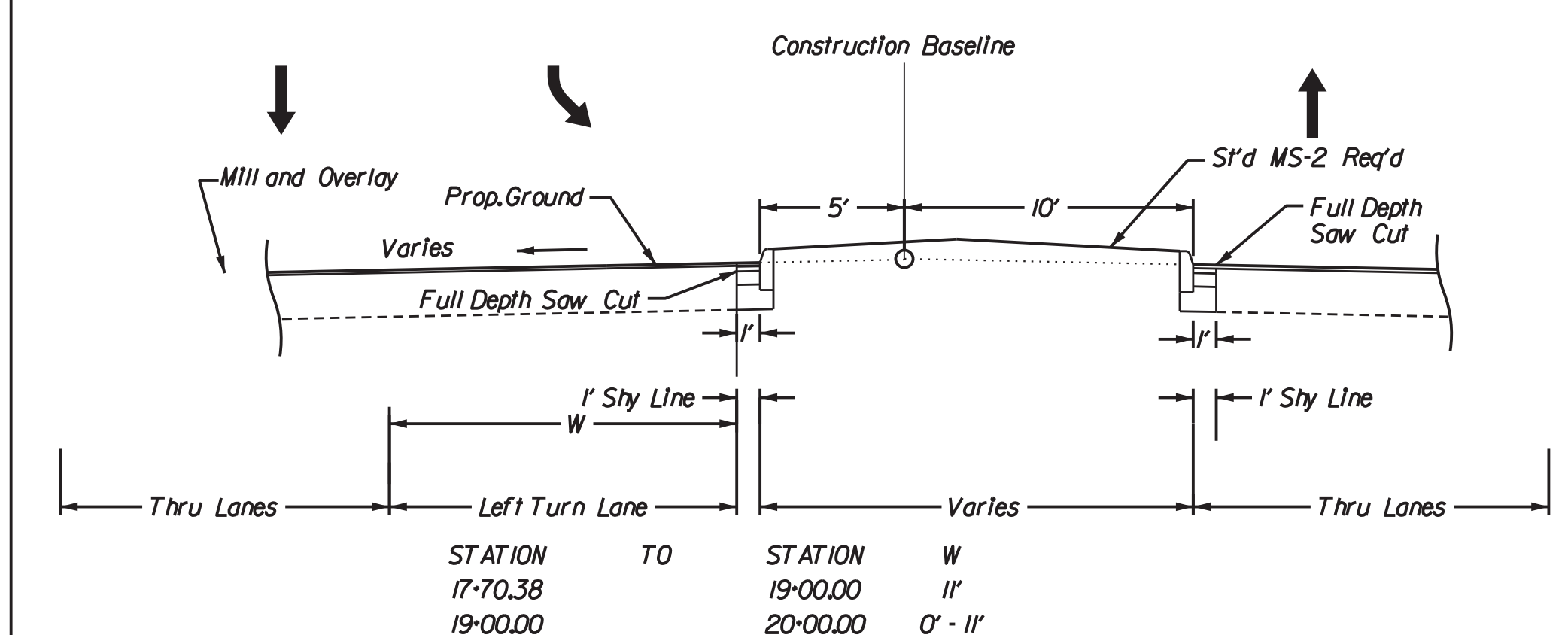
INSET NO. 7



INSET NO. 12



Fairfax Boulevard, U.S. Route 50 (W.B.L.) Left Turn Lane Detail



| STATION TO | STATION | W |
|------------|----------|----------|
| 17-70.38 | 19-00.00 | 11' |
| 19-00.00 | 20-00.00 | 0' - 11" |

- 1 Surface Course - (2") Asphalt Concrete, Type SM-9.5D @ 220 lbs/sqyd.
- 1A Pavement Build-up - See Sheet 2A(4) for detail. Existing pavement shall be milled 2" prior to Pavement Build-up.
- 2 Intermediate Course - (2") Asphalt Concrete, Type IM-19.0A @ 220 lbs/sqyd.
- 3 Base Course - (7") Asphalt Concrete, Type BM-25.0A @ 122 lb/sqyd/1in.
- 3A Base Course - (9") Asphalt Concrete, Type BM-25.0A @ 122 lb/sqyd/1in.
- 4A Sub-Base Course - (14") Aggregate Base Material, Type I, Size No. 21B Connected to UD-4 edge drains beneath the curb, or curb and gutter.
- 4E Sub-Base Course - Variable Depth Aggregate Base Material, Type I, Size No. 21B. The bottom of the sub-base course shall be installed no deeper than the adjacent existing aggregate base course.
- 4B Sub-Base Course - (18") Aggregate Base Material, Type I, Size No. 21B Connected to UD-4 edge drains beneath the curb, or curb and gutter.
- 5 Regular F111 Material to be compacted in accordance with VDOT Road and Bridge Specifications.
- 6 Sidewalk - (4") Class A3 Hydraulic Cement Concrete.
- 7 Base Course - (4") Aggregate Base Material Type I, Size 21A extended 6' beyond the edge of the sidewalk.

| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| - | 0029-151-108 | - | 2A(2) |

Rinker Design Associates, P.C.
 Civil Engineering
 Environmental
 Transportation
 Right of Way Services

NORTHERN VIRGINIA DISTRICT

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
 SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
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 DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

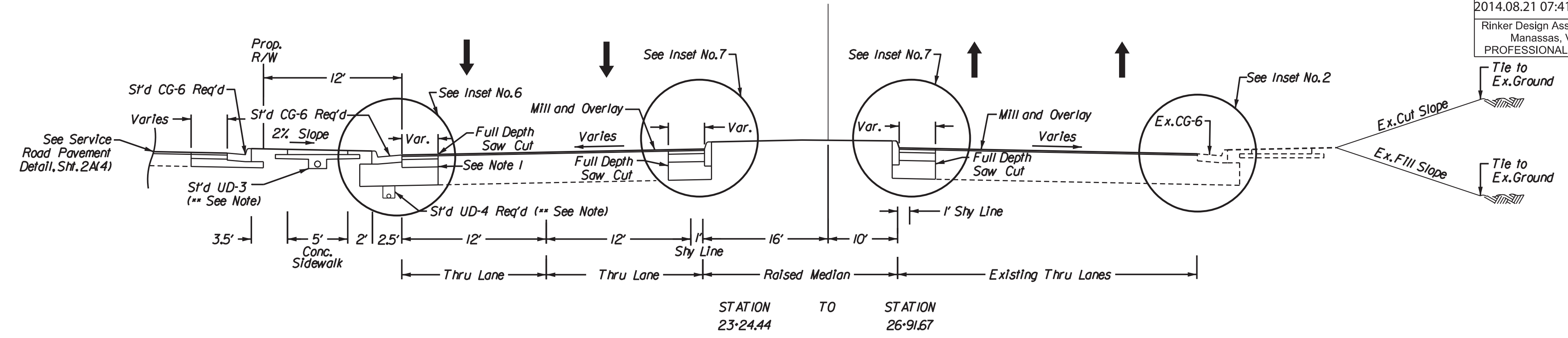
See Geotechnical Report for pavement design, geotechnical information and additional details. Report prepared by Geo-Technology Associates, Inc. See Sheet 2A(5) for details.

TYPICAL SECTIONS

(Not to Scale)

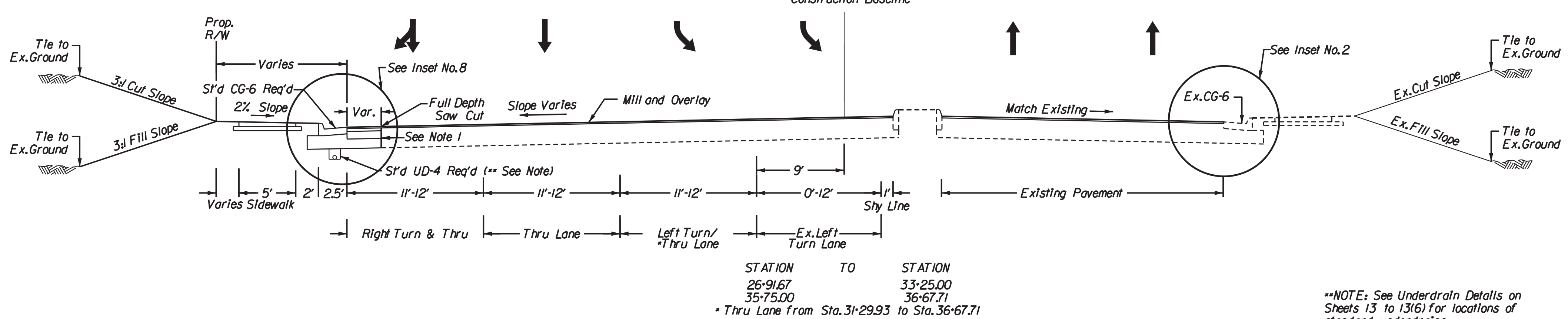
Fairfax Boulevard - Route 50

Normal Crown
Construction Baseline



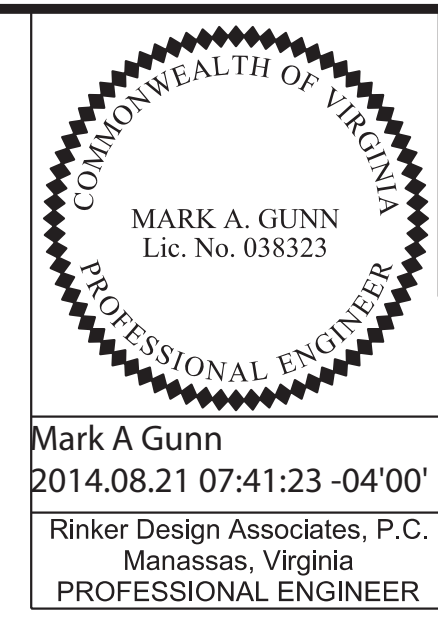
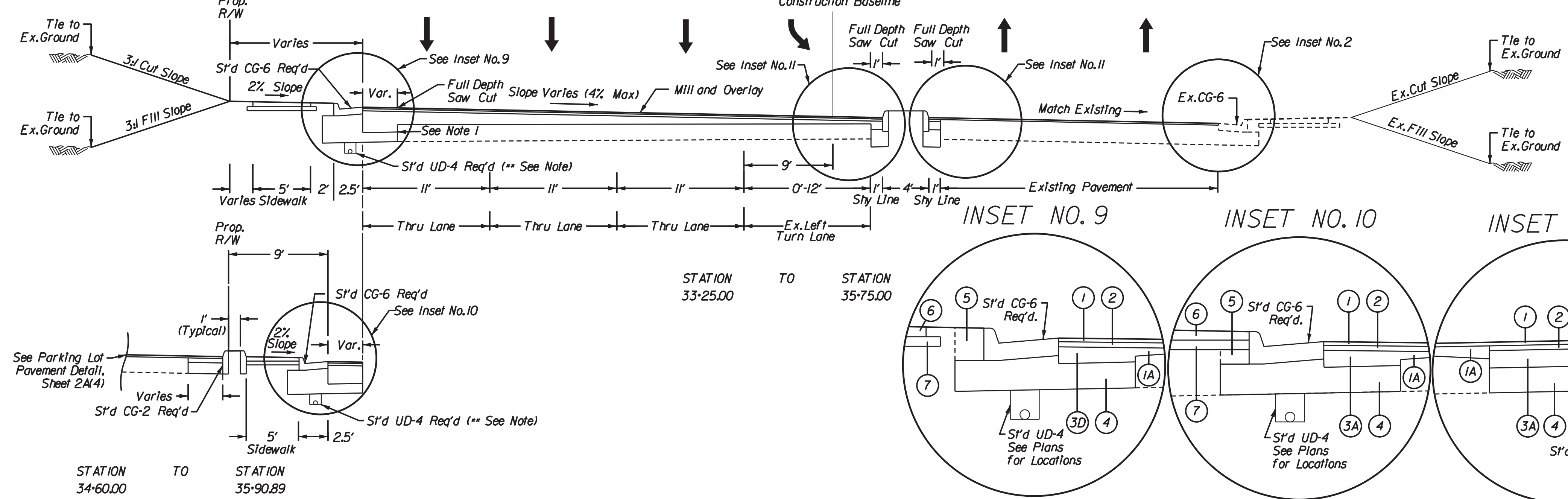
Main Street - Route 236

Normal Crown
Construction Baseline

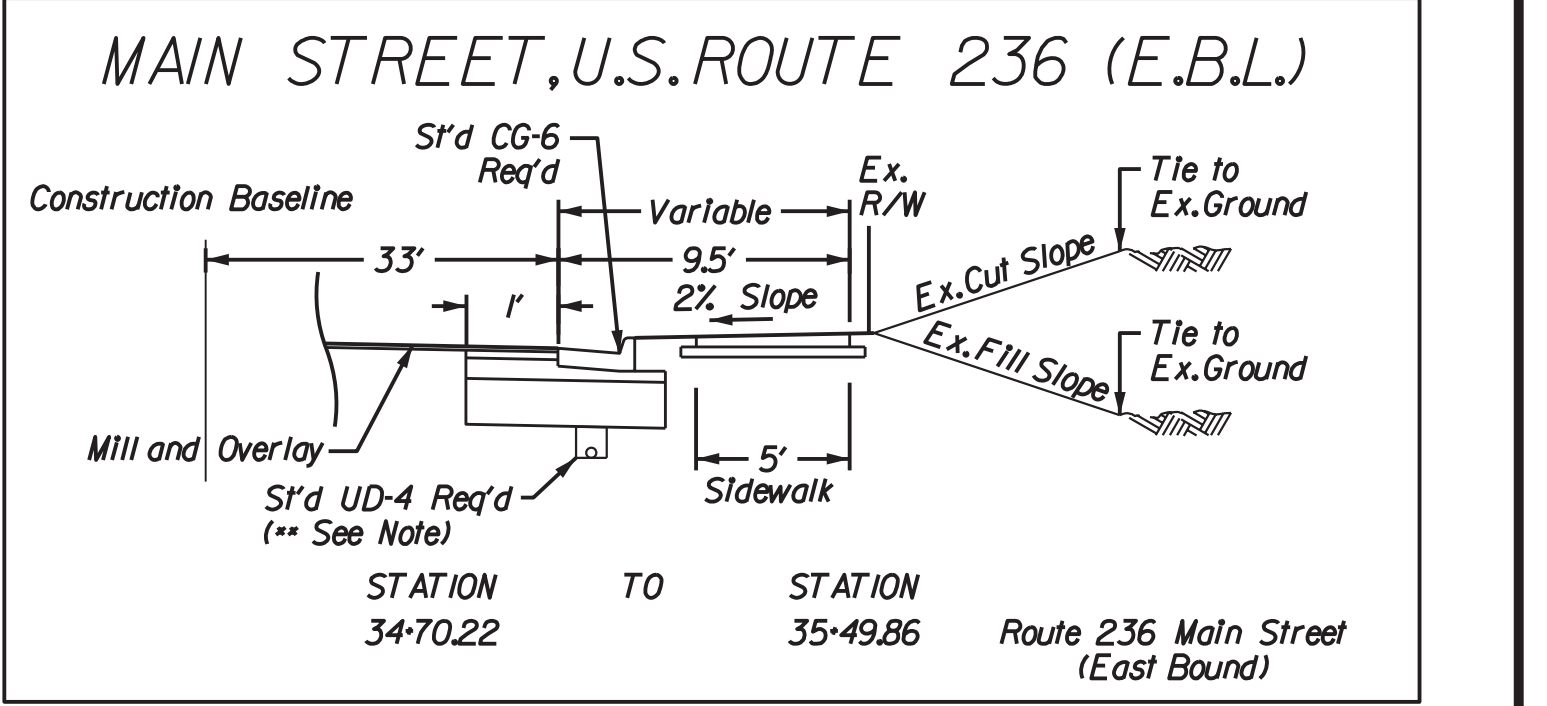
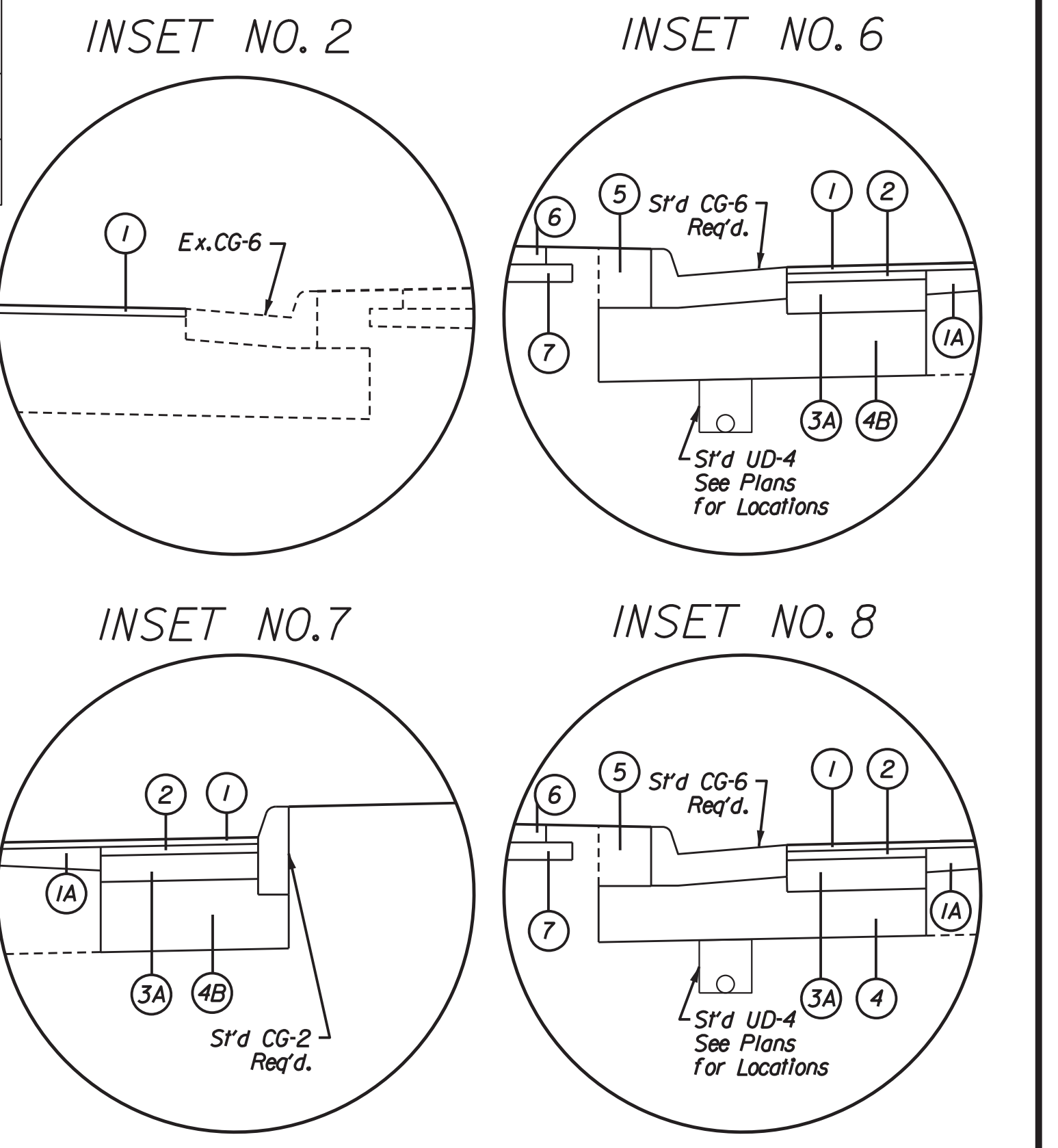


Main Street - Route 236

Superelevated Section
Construction Baseline



| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
|----------|-------|-------------------------------|-------|-------------------------------|-----------|
| 08-23-13 | VA. | STP-540(675) RSTP-540(178) | 29 | 0029-151-108 RW-201, C-501 | 2A(3) |



**NOTE: See Underdrain Details on Sheets 13 to 13(6) for locations of standard underdrains
 NOTE 1: Pavement widening to be in accordance with VDOT S'd WP-2.

- 1 Surface Course - (2") Asphalt Concrete, Type SM-9.5D @ 220 lbs/sqyd.
- 1A Pavement Build-up - See Sheet 2A(4) for detail. Existing pavement shall be milled 2" prior to Pavement Build-up.
- 2 Intermediate Course - (2") Asphalt Concrete, Type IM-19.0A @ 220 lbs/sqyd.
- 3A Base Course - (9") Asphalt Concrete, Type BM-25.0A @ 122 lb/sqyd/in.
- 3D Base Course - (Variable Depth) Asphalt Concrete, Type BM-25.0A @ 122 lb/sqyd/in.
- 4 Sub-Base Course - (10") Aggregate Base Material, Type 1, Size No. 21B Connected to UD-4 edge drains beneath the curb, or curb and gutter.
- 4B Sub-Base Course - (18") Aggregate Base Material, Type 1, Size No. 21B Connected to UD-4 edge drains beneath the curb, or curb and gutter.
- 5 Regular Fill Material to be compacted in accordance with VDOT Road and Bridge Specifications.
- 6 Sidewalk - (4") Class A3 Hydraulic Cement Concrete.
- 7 Base Course - (4") Aggregate Base Material Type 1, Size 21A extended 6' beyond the edge of the sidewalk.

| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| - | 0029-151-108 | - | 2A(3) |

Rinker Design Associates, P.C.
 10000 Lee Highway, Suite 100
 Fairfax, VA 22033
 (703) 368-7373
 www.rinker.com

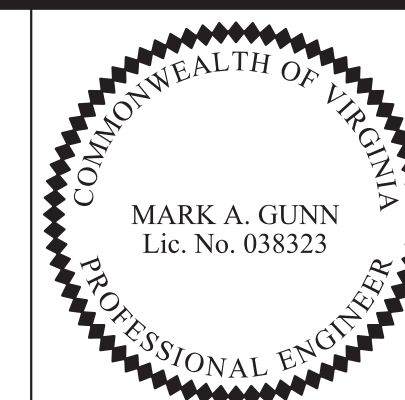
NORTHERN VIRGINIA DISTRICT

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
 SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
 DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
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See Geotechnical Report for pavement design, geotechnical information and additional details. Report prepared by Geo-Technology Associates, Inc. See Sheet 2A(5) for details.

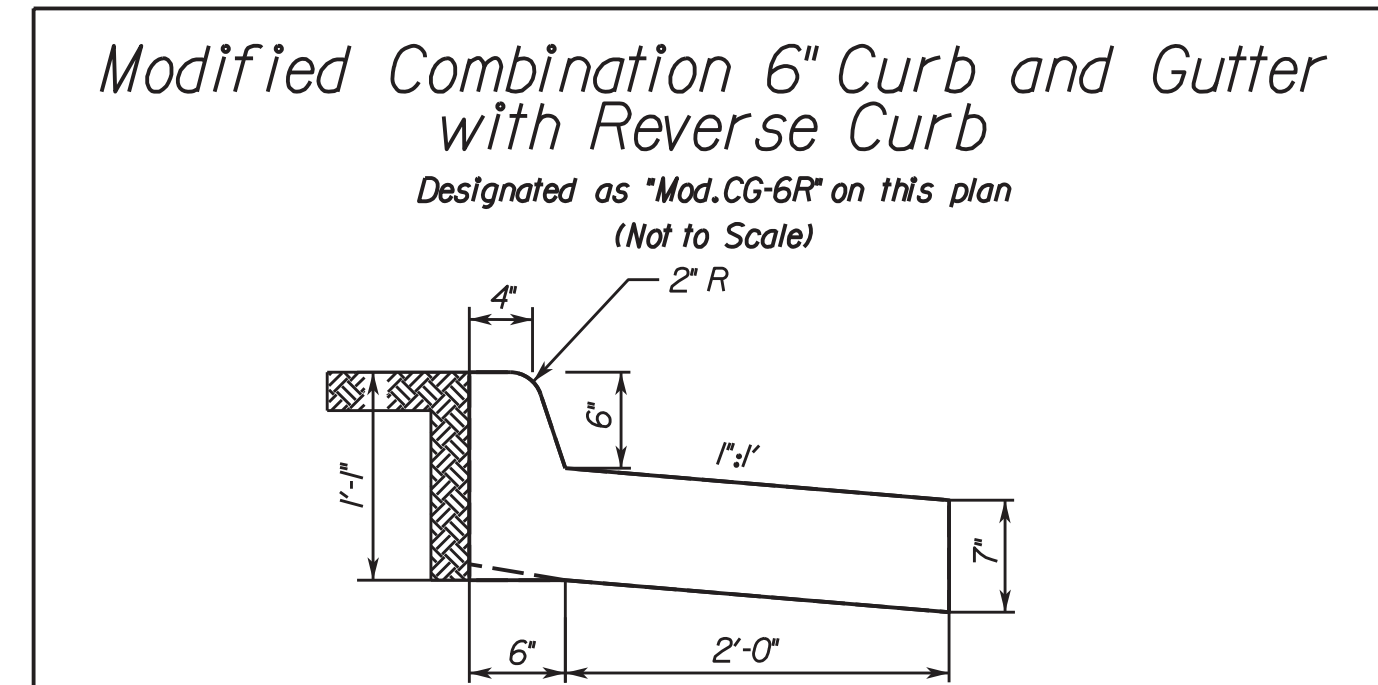
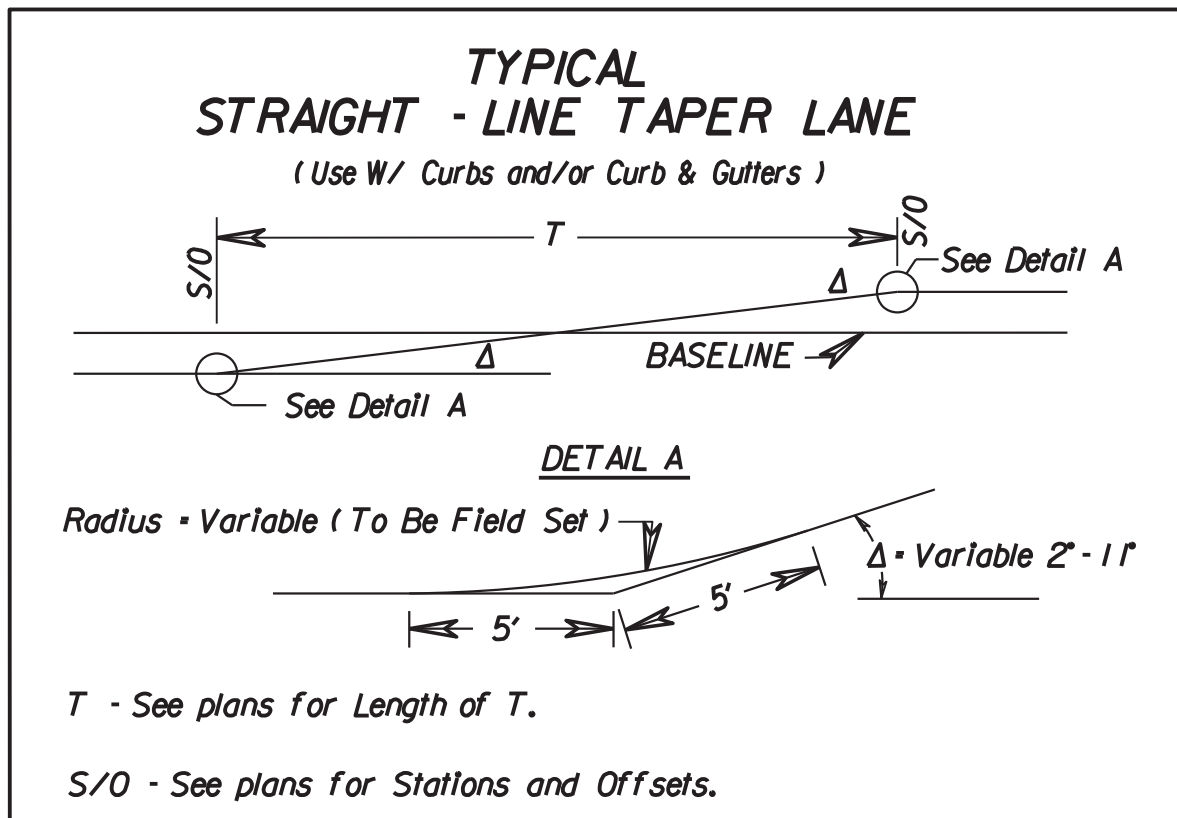
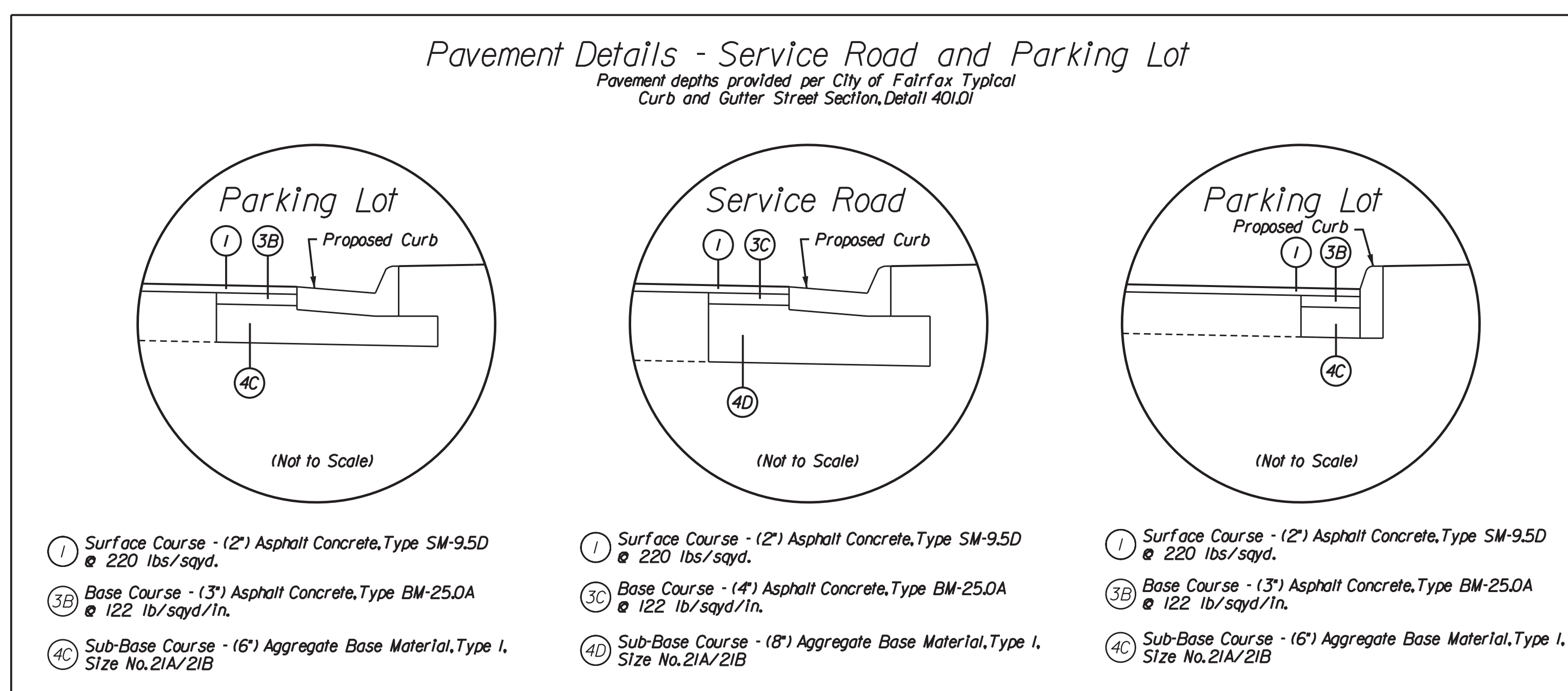
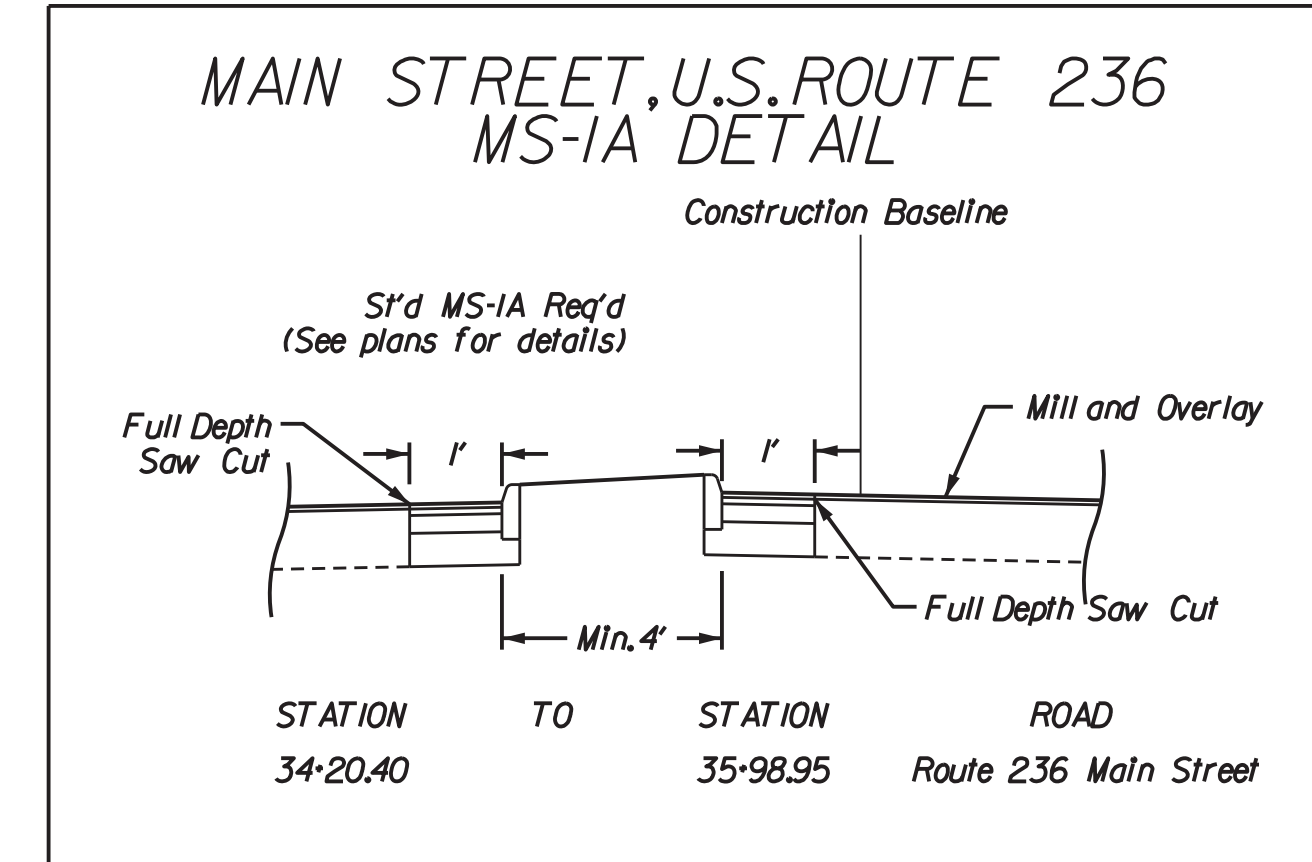
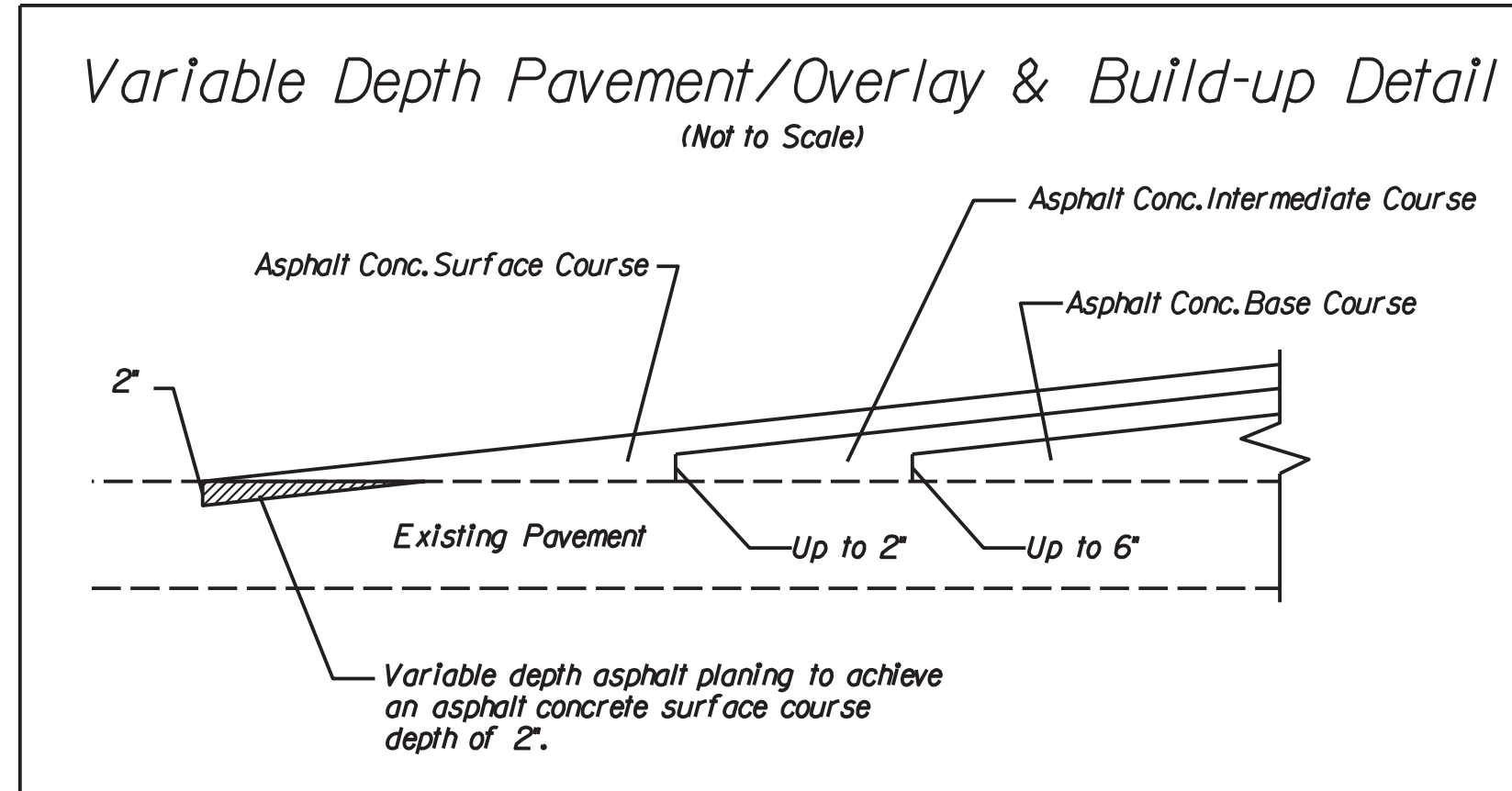
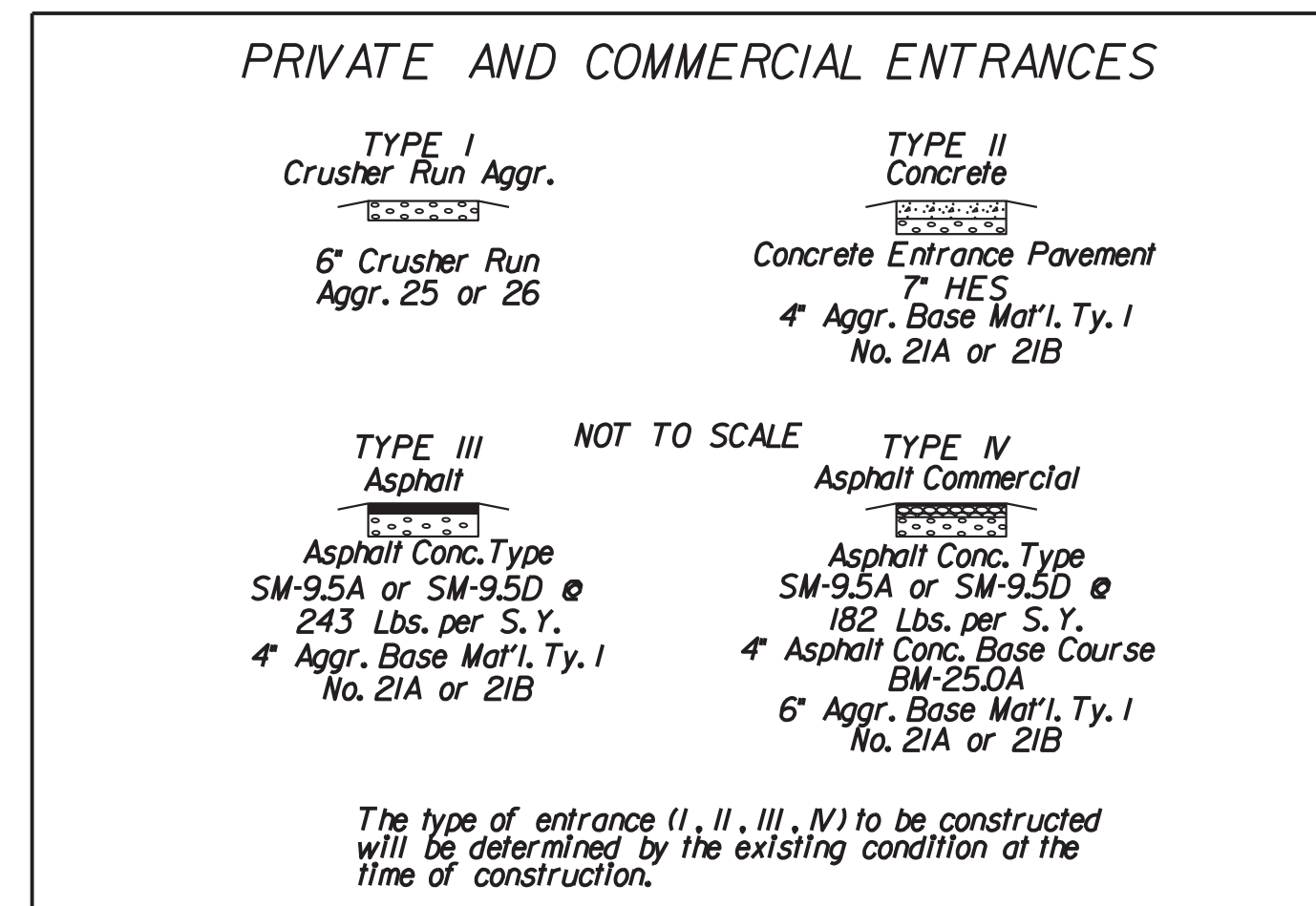
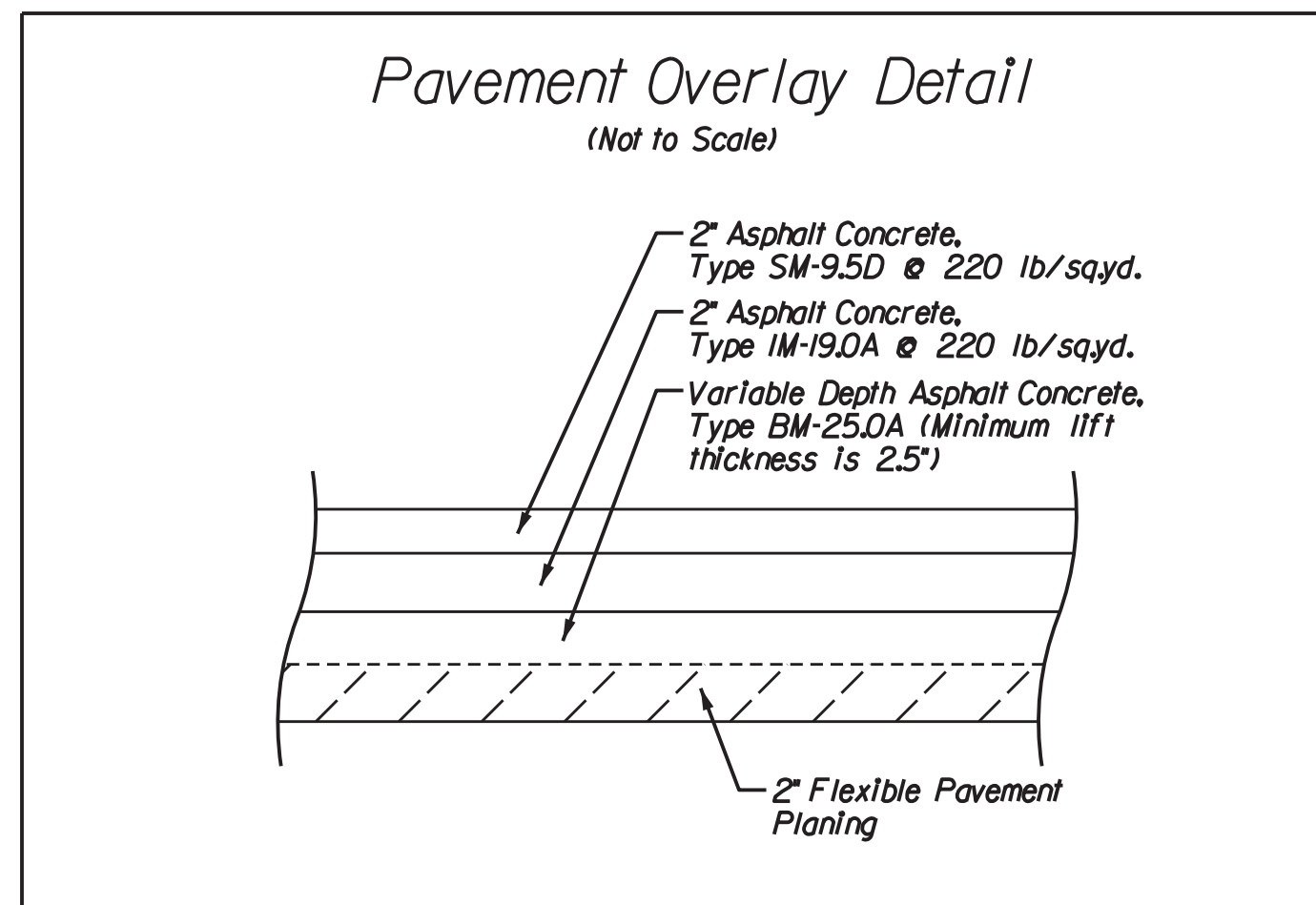
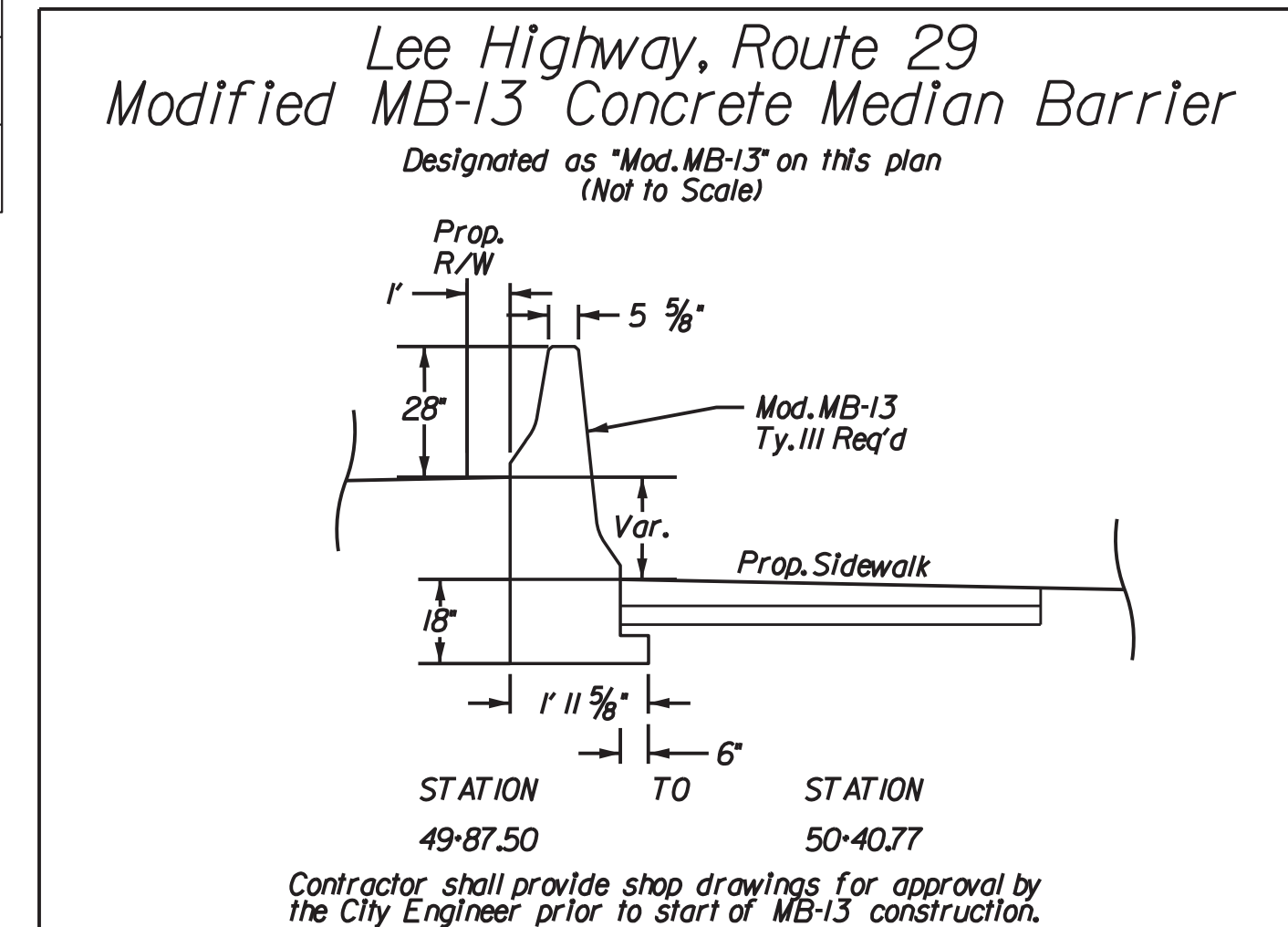
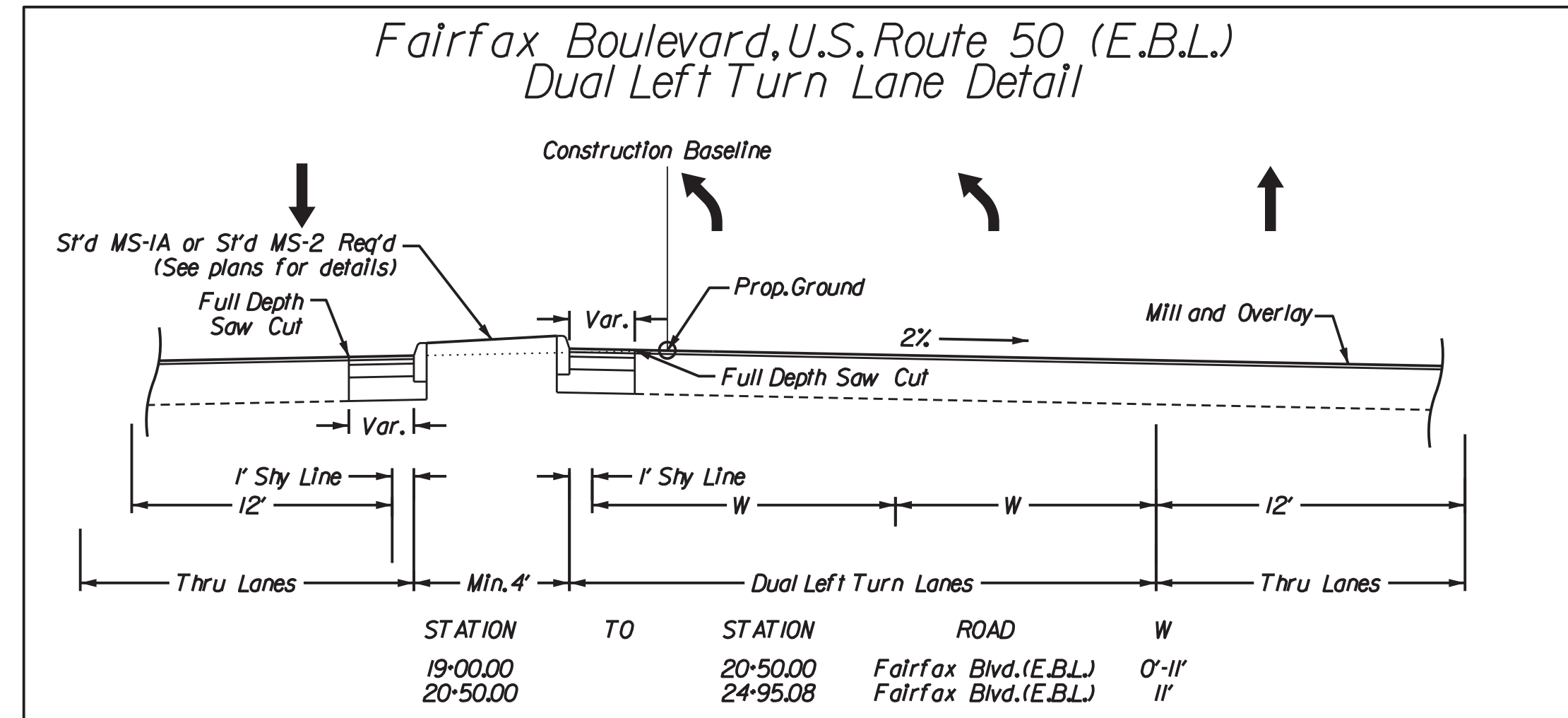
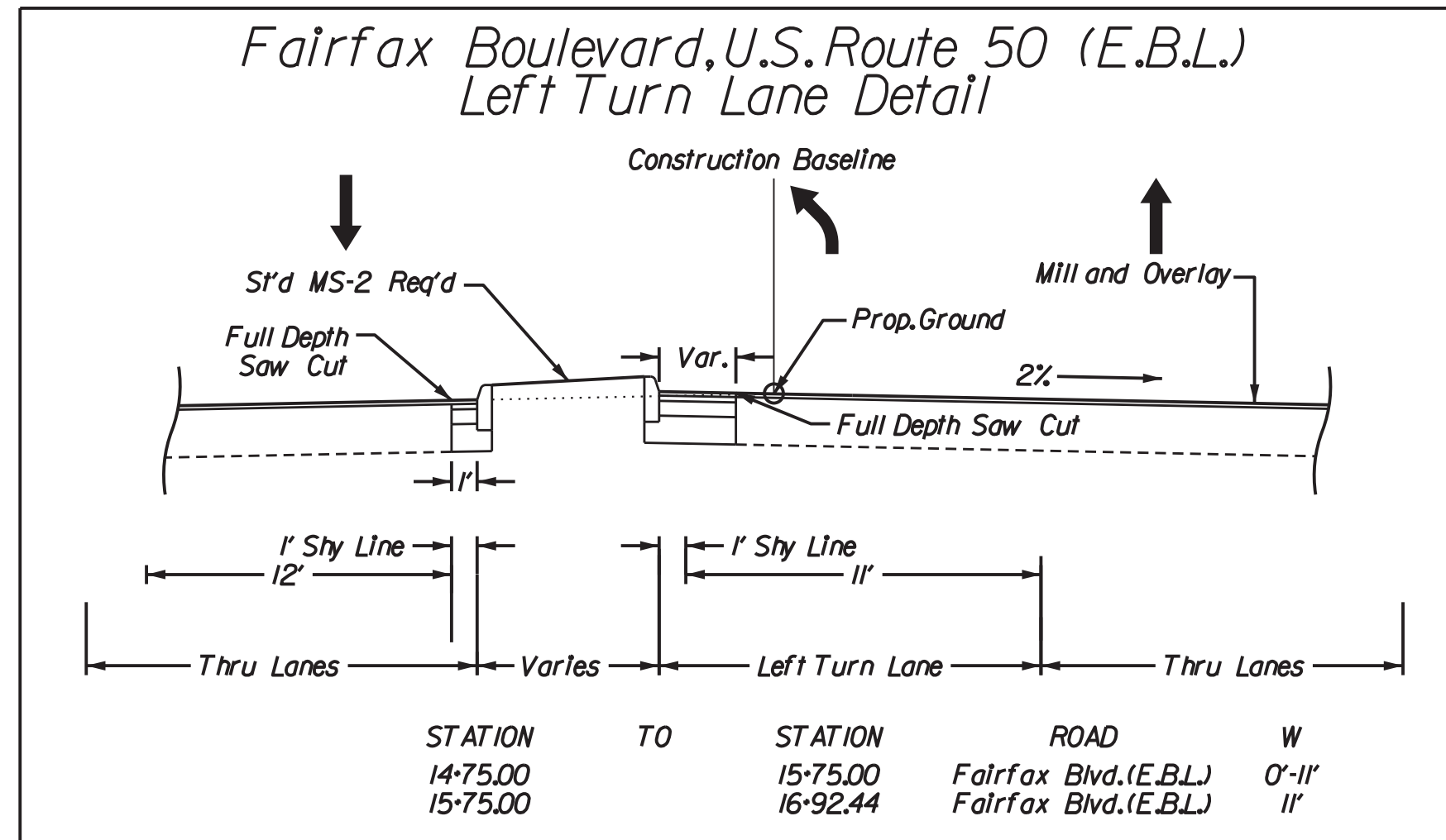
TYPICAL SECTION DETAILS

(Not to Scale)



Mark A Gunn
 2014.08.21 07:41:49 -04'00'
 Rinker Design Associates, P.C.
 Manassas, Virginia
 PROFESSIONAL ENGINEER

| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
|----------|-------|--------------------------------|-------|-------------------------------|-----------|
| 08-23-13 | VA. | STP-540(675) RSTP-5A01(178) | 29 | 0029-151-108 RW-201, C-501 | 2A(4) |



Rinker Design Associates, P.C.
 Northern Virginia District
 8/20/2014

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

TYPICAL SECTION DETAILS

(Not to Scale)

Unsuitable Materials at Subgrade***

*** Summary Table is extracted from "Report of Geotechnical Exploration - Revision #3, Kamp Washington Intersection Improvements, prepared by Geo-Technology Associates, Inc., dated August 7, 2014"

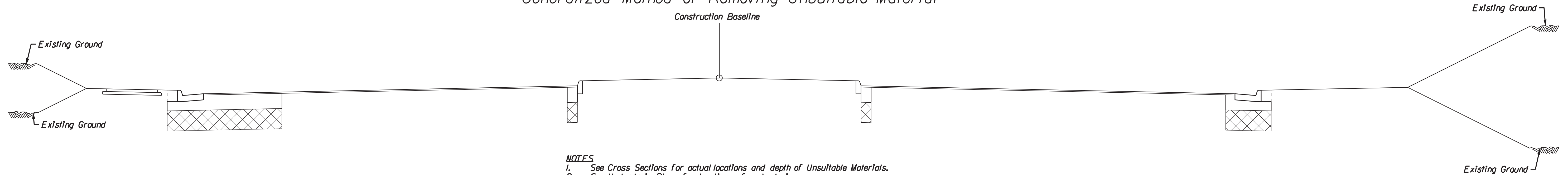
Summary of Unsuitable Material at Subgrade

| Station Number | Recommended Treatment | Reason |
|------------------------------|------------------------|--|
| Route 29 | | |
| Sta. 44+75 to 47+50 | Up to 2 feet undercut* | Loose to medium stiff material |
| Sta. 47+50 to 49+75 | 2 feet undercut* | High plastic soil/debris/fill (unsuitable) |
| Sta. 49+75 to 52+00 | Up to 2 feet undercut* | Loose to medium stiff material |
| Sta. 52+00 to Sta. 55+00 | 2 feet of undercut* | Wet material (unsuitable) |
| Route 29 and Route 50 | | |
| Sta. 57+25 to 61+50 | Up to 2 feet undercut* | Loose, existing fill material** |
| Route 50 | | |
| Sta. 19+25 to 22+25 | 2 feet undercut* | Wet, soft material (unsuitable) |
| Sta. 22+25 to 23+50 | 2 feet undercut* | Wet material (unsuitable) |
| Sta. 23+50 to 25+75 (Center) | Up to 2 feet undercut* | Loose, existing fill material** |
| Sta. 15+00 to 27+00 | Up to 2 feet undercut* | Loose, existing fill material** |
| Main Street | | |
| Sta. 29+75 to 32+00 | Up to 2 feet undercut* | Existing fill material** |

- * Undercut shall be replaced with Select Material, Type 1 Minimum CBR-30 placed on a woven geotextile subgrade stabilization fabric. All costs associated with the geotextile subgrade fabric and its installation shall be included in the cost of the undercut replacement material.
- ** Existing fill not consisting of highly plastic soils, debris, or wet materials may be left in place provided that proof rolling is performed to identify areas of unstable soils requiring undercut. All highly plastic soils, debris and wet materials shall be undercut to a depth of 2 feet and replaced with select Material, Type 1, Minimum CBR-30 placed on a woven geotextile subgrade fabric. All costs associated with the geotextile subgrade fabric and its installation shall be included in the cost of the undercut replacement material.

See "Report of Geotechnical Exploration - Revision #3, Kamp Washington Intersection Improvements, prepared by Geo-Technology Associates, Inc., dated August 7, 2014, for additional details."

Generalized Method of Removing Unsuitable Material



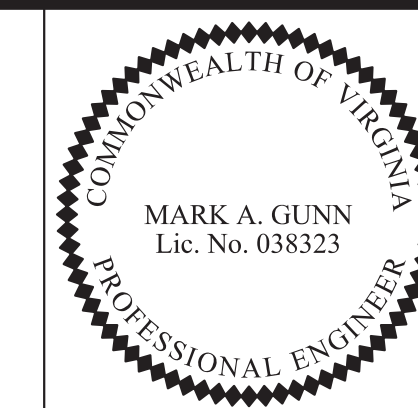
Legend



Soil to be recompacted in place or removed and replaced as directed in the table above.

NOTES

1. See Cross Sections for actual locations and depth of Unsuitable Materials.
2. See Underdrain Plans for locations of underdrains.
3. Where unsuitable materials are removed and replaced, the underdrain shall be lowered to the bottom of the undercut and taken to outfall below the elevation of the undercut.



Mark A Gunn
2014.08.21 07:42:12 -04'00'
Rinker Design Associates, P.C.
Manassas, Virginia
PROFESSIONAL ENGINEER

| REVISED | STATE | FEDERAL AID | ROUTE | STATE | SHEET NO. |
|----------|-------|--------------------------------|-------|-------------------------------|-----------|
| 08-23-13 | | PROJECT OWNER | | PROJECT | |
| | VA. | STP-540(675) RSTP-5A01(178) | 29 | 0029-151-108 RW-201, C-501 | 2A(5) |

| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
|----------|--------------|----------|-----------|
| - | 0029-151-108 | - | 2A(5) |

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
 SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
 DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
 DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

Pavement Summary

| REVISED | STATE | FEDERAL AID PROJECT OWNER | ROUTE | STATE PROJECT | SHEET NO. |
|---------|-------|--------------------------------|-------|-------------------------------|-----------|
| | VA. | STP-540(675) RSTP-5A01(178) | 29 | 0029-151-108 RW-201, C-501 | 2B |

| | | MAINLINE AND CONNECTIONS | | | | | | | | | | | | | | | SIDEWALK & BUS PADS | TYPE IV ENTRANCES | | | |
|--------------|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|---|--|--|
| | | SURFACE | INTERMEDIATE | BASE | | | | | SUB BASE | | | | | OVERLAY | | | | | SURFACE | BASE | SUB BASE |
| SHEET No. | ROADWAY | Asphalt Concrete, Type SM-9.5D @ 220 lbs/sqyd | Asphalt Concrete, Type IM-19.0A @ 220 lbs/sqyd | Asphalt Concrete, Type BM-25.0A @ 122 lbs/sqyd/1inch | Asphalt Concrete, Type BM-25.0A @ 122 lbs/sqyd/1inch | Asphalt Concrete, Type BM-25.0A @ 122 lbs/sqyd/1inch | Asphalt Concrete, Type BM-25.0A @ 122 lbs/sqyd/1inch | Asphalt Concrete, Type BM-25.0A @ 122 lbs/sqyd/1inch | Asphalt Concrete, Type BM-25.0A @ 122 lbs/sqyd/1inch | Aggregate Base Material, Type I, Size 21B @ 163 lbs/cuft | Aggregate Base Material, Type I, Size 21B @ 163 lbs/cuft | Aggregate Base Material, Type I, Size 21B @ 163 lbs/cuft | Aggregate Base Material, Type I, Size 21A/21B @ 163 lbs/cuft | Aggregate Base Material, Type I, Size 21A/21B @ 163 lbs/cuft | Asphalt Concrete, Type SM-9.5D @ 220 lbs/sqyd | Asphalt Concrete, Type IM-19.0A @ 110 lbs/sqyd/1inch | Asphalt Concrete, Type BM-25.0A @ 122 lbs/sqyd/1inch | Aggregate Base Material, Type I, Size 21A @ 163 lbs/cuft | Asphalt Concrete, Type SM-9.5D @ 220 lbs/sqyd | Asphalt Concrete, Type BM-25.0A @ 122 lbs/sqyd/1inch | Aggregate Base Material, Type I, Size 21A/21B @ 163 lbs/cuft |
| | | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH | DEPTH |
| | | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON |
| ITEM NO. | | 10636 | 10610 | 10642 | 10642 | 10642 | 10642 | 10642 | 10128 | 10128 | 10128 | 10128 | 10128 | 10636 | 10610 | 10642 | 10123 | 10636 | 10642 | 10128 | |
| LOCATION | | 2" | 2" | 7" | 9" | 3" | 4" | Variable | 8" | 10" | 14" | 18" | 6" | 8" | 2" | Variable (2" Max.) | Variable | 4" | 2" | 4" | 6" |
| | | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON | TON |
| 4 | Route 29 | 114 | 114 | - | - | - | - | - | 506 | 861 | - | - | - | - | 555 | 43 | 22 | 96 | 2 | 5 | 9 |
| 4 | Parking Lot | 28 | - | - | - | 62 | - | - | - | - | - | - | 116 | - | 207 | - | - | - | - | - | - |
| 5 | Route 29 | 17 | 17 | - | - | - | - | - | 74 | 142 | - | - | - | - | 328 | 5 | 1 | 44 | - | - | - |
| 5 | Route 29/50 | 69 | 69 | 268 | - | - | - | - | - | - | 689 | - | - | 251 | 90 | 16 | 69 | - | - | - | |
| 5 | Route 50 | 63 | 63 | - | 312 | - | - | - | - | - | - | 855 | - | 262 | 16 | 4 | 58 | - | - | - | |
| 5 | Route 236 | 17 | 17 | - | 73 | - | - | - | - | 121 | - | - | - | 246 | - | - | 9 | - | - | - | |
| 5 | Service Road | 119 | - | - | - | - | 262 | - | - | - | - | - | 646 | 128 | - | - | - | - | - | - | |
| 6 | Route 29/50 | 37 | 37 | 142 | - | - | - | - | - | - | 329 | - | - | 248 | 30 | 20 | 24 | - | - | - | |
| 6 | Service Road | 4 | - | - | - | - | 8 | - | - | - | - | - | 23 | 26 | - | - | - | - | - | - | |
| 7 | Route 50 | 14 | 14 | - | 66 | - | - | - | - | - | - | 250 | - | 170 | 28 | 7 | 9 | - | - | - | |
| 7 | Service Road | 1 | - | - | - | - | 1 | - | - | - | - | - | 7 | 1 | - | - | 4 | - | - | - | |
| 8 | Route 50 | 179 | 179 | - | 889 | - | - | - | - | - | 2255 | - | - | 412 | 64 | 16 | 6 | - | - | - | |
| 8 | Service Road | 30 | - | - | - | - | 67 | - | - | - | - | - | 156 | 48 | - | - | 4 | - | - | - | |
| 9 | Route 236 | 76 | 76 | - | 190 | - | - | 460 | - | 778 | - | - | - | 554 | 196 | 497 | 109 | 7 | 14 | 21 | |
| 9 | Parking Lot | 35 | - | - | - | 76 | - | - | - | - | - | - | 137 | 15 | - | - | - | - | - | - | |
| TOTAL | | 803 | 586 | 410 | 1530 | 138 | 338 | 460 | 580 | 1902 | 1018 | 3360 | 253 | 832 | 3451 | 472 | 583 | 432 | 9 | 19 | 30 |



NORTHERN VIRGINIA DISTRICT

PROJECT MANAGER Wendy Block Sanford, City of Fairfax, (703) 385-7889
 SURVEYED BY Rinker Design Assoc., P.C. (703) 368-7373
 DESIGN SUPERVISED BY Mark Gunn, P.E., Rinker Design Assoc., P.C. (703) 368-7373
 DESIGNED BY Adam D. Welschenbach, P.E., Rinker Design Assoc., P.C. (703) 368-7373

Incidental Summary Soil Preparation, Seeding & Erosion Control Summary

| REVISED | STATE | FEDERAL AID | ROUTE | STATE | SHEET NO. |
|---------|-------|-------------------------------|-------|-------------------------------|-----------|
| | | PROJECT OWNER | | PROJECT | |
| | VA. | STP-540(675) RSTP-5A0(178) | 29 | 0029-151-108 RW-201, C-501 | 2B(1) |

| INCIDENTAL SUMMARY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|----------|----------|-----------|--------------|--------------|-------------|-------------|------------|------------|-----------|------------|-------------|------------|------------|-----------|-----------|-----------|------------|-----------|-----------|-------------|------------|-----------|-----------|-----------|-----------|-----------|------------|------------|-------------|-----------|-----------|-----|-----|
| ITEM NO. UNIT SHEET NO. | ITEM DESCRIPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LS. | LS. | LS. | MO. | SY. | LF. | LF. | LF. | LF. | LF. | LF. | LF. | LF. | LF. | LF. | LF. | LF. | LF. | SY. | SY. | EA. | SY. | SY. | SY. | LF. | LF. | SY. | LF. | SY. | LF. | SY. | LF. | SY. | LF. | SY. |
| 3 | - | - | - | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 | - | - | - | - | 13843 | 1280 | 909 | 867 | 78 | 70 | 0 | 108 | 533 | 79 | 9 | 0 | 19 | 0 | 86 | 9 | 12 | 279 | 50 | 0 | 4 | 16 | 7 | 54 | 57 | 132 | 1197 | 65 | 27 | | |
| 5 | - | - | - | - | 22041 | 4170 | 43 | 472 | 133 | 259 | 46 | 0 | 996 | 358 | 0 | 22 | 0 | 0 | 89 | 10 | 8 | 510 | 83 | 21 | 11 | 25 | 0 | 0 | 330 | 0 | 2282 | 0 | 0 | | |
| 6 | - | - | - | - | 4954 | 830 | 48 | 58 | 0 | 38 | 0 | 0 | 106 | 0 | 0 | 1 | 0 | 0 | 29 | 2 | 3 | 76 | 9 | 0 | 5 | 4 | 0 | 0 | 51 | 0 | 225 | 0 | 0 | | |
| 7 | - | - | - | - | 3089 | 703 | 0 | 0 | 54 | 0 | 0 | 0 | 185 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 9 | 21 | 0 | 10 | 14 | 13 | 0 | 0 | 175 | 135 | 0 | 0 | | | |
| 8 | - | - | - | - | 8348 | 2320 | 0 | 58 | 49 | 65 | 0 | 0 | 687 | 68 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 22 | 0 | 10 | 10 | 0 | 0 | 141 | 315 | 1189 | 0 | 0 | | | |
| 9 | - | - | - | - | 10334 | 1245 | 441 | 202 | 65 | 49 | 0 | 0 | 588 | 81 | 113 | 0 | 0 | 16 | 115 | 8 | 18 | 315 | 62 | 0 | 22 | 19 | 0 | 0 | 79 | 0 | 731 | 0 | 0 | | |
| TOTAL | 1 | 1 | 1 | 15 | 62609 | 10548 | 1441 | 1657 | 379 | 481 | 46 | 108 | 3095 | 586 | 122 | 23 | 19 | 16 | 319 | 33 | 41 | 1196 | 247 | 21 | 62 | 88 | 20 | 54 | 658 | 622 | 5759 | 65 | 27 | | |

| SOIL PREPARATION, SEEDING, & EROSION CONTROL | | | | |
|---|------------------|-----|-----|-----|
| ITEM NO. UNIT SHEET NO. | ITEM DESCRIPTION | | | |
| | LS. | LS. | LS. | LS. |
| | NS | | | |
| | LS. | | | |
| TOTAL | 1 | | | |

| | | | |
|----------|--------------|----------|-----------|
| PLAN NO. | PROJECT | FILE NO. | SHEET NO. |
| - | 0029-151-108 | - | 2B(1) |

