THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 104294

FOR MAINTENANCE MAP SEE SHEET 1A
FOR INDEX OF SHEETS SEE SHEET 1B

FHWA 534 DATA 44028

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.	RSTP-5A01( ) SEE TABULATION BELOW FOR SECTION NUMBERS	828	9999-029-098 (PE) 0828-029-248 (RW,CN) SEE TABULATION BELOW FOR SECTION NUMBERS	1

FUNCTIONAL CLASSIFICATION	
	WIEHLE AVE (RTE 828)
STREET CLASS	URBAN MINOR ARTERIAL (GS-6)
AADT (2017)	26000
DHV	2,340
D (%)	66
T (%)	3
DESIGN V (mph)	40
POSTED V (mph)	35

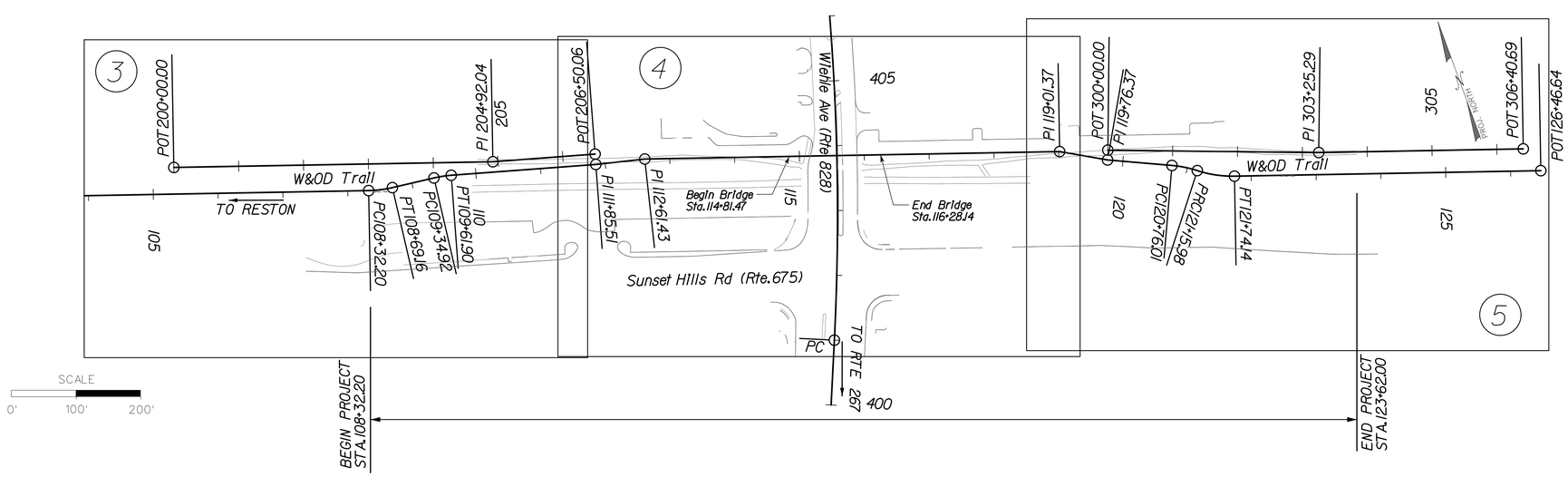
PREFINAL PLANS
MAY 2018

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

COMMONWEALTH OF VIRGINIA

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES

PROJECT NO.: 1400102-2013
UPC NO. 140294 (PE) FUND: 500-C5000
UPC NO. 107439 (RW,CN) CONTRACT NO.:



DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S:

* ROAD AND BRIDGE SPECIFICATIONS, DATED 2016
* ROAD AND BRIDGE STANDARDS, DATED JULY, 2016
* VIRGINIA WORK AREA PROTECTION MANUAL, DATED 2011

AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY

* MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED, 2009
* VIRGINIA SUPPLEMENT TO THE 2009 MUTCD, DATED 2011

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11(ULS) EXCEPT WHERE OTHERWISE NOTED.

DESCRIPTION REFERENCE:
CENTERLINE OF WIEHLE AVE (RTE 828)
STA. 115+57.68

CENSUS DATA: 2016(YEAR) 1,131,886

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	TYPE PROJECT	PROJECT DESCRIPTION
9999-029-098 (PE) 0828-029-248 (RW,CN)	P101	RSTP-5A01(500)	PENG	104294	1530.80	0.290	1384.13	0.262	PREL. ENGR.	FROM: 0.101 MI E. OF ISAAC NEWTON SQ
	R201		ROWA	107439	1530.80	0.290	1384.13	0.262	RIGHT OF WAY	TO: 0.035 MI W. OF MICHAEL FARADAY CT
	C501		CENG	107439	1530.80	0.290	1384.13	0.262	CONSTRUCTION	

WIEHLE AVENUE AT W&OD TRAIL

Whitman, Requardt & Associates, LLP

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE:	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE:	DISTRICT PROJECT DEVELOPMENT ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION	
DATE:	DISTRICT ADMINISTRATOR

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE:	DISTRICT PLANNING AND INVESTMENT MANAGER
DATE:	DISTRICT PROJECT DEVELOPMENT ENGINEER

APPROVED FOR CONSTRUCTION	
DATE:	DISTRICT ADMINISTRATOR

FINAL PLANS AUTHORIZED FOR ROW ACQUISITION	
DATE:	CHIEF, TRANSPORTATION DESIGN DIVISION, DOT

FINAL PLANS AUTHORIZED FOR CONSTRUCTION PER DPWES/DOT DELEGATION MATRIX	
DATE:	CHIEF, STORM WATER & TRANSPORTATION CONSTRUCTION BRANCH
DATE:	CHIEF, TRANSPORTATION DESIGN DIVISION

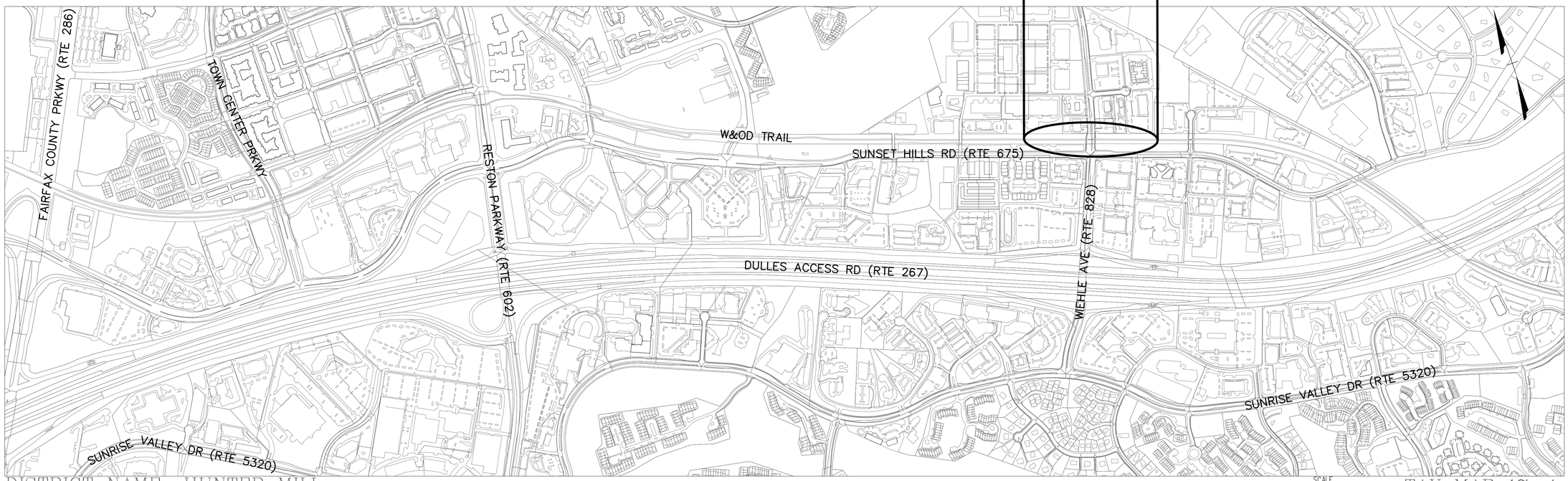
PROJECT MANAGER SCOTT RUEENER P.E. (703) 877-5736
SURVEYED BY, DATE FAIRFAX COUNTY, NOVEMBER 28, 2014
DESIGN BY WHITMAN REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP, INC (703) 361-6005 DECEMBER 23, 2014

PROJECT NO. 1400102-2013, WIEHLE AVENUE AT W&OD TRAIL
PREFINAL SUBMISSION MAY 2018

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

LOCATION AND MAINTENANCE MAP

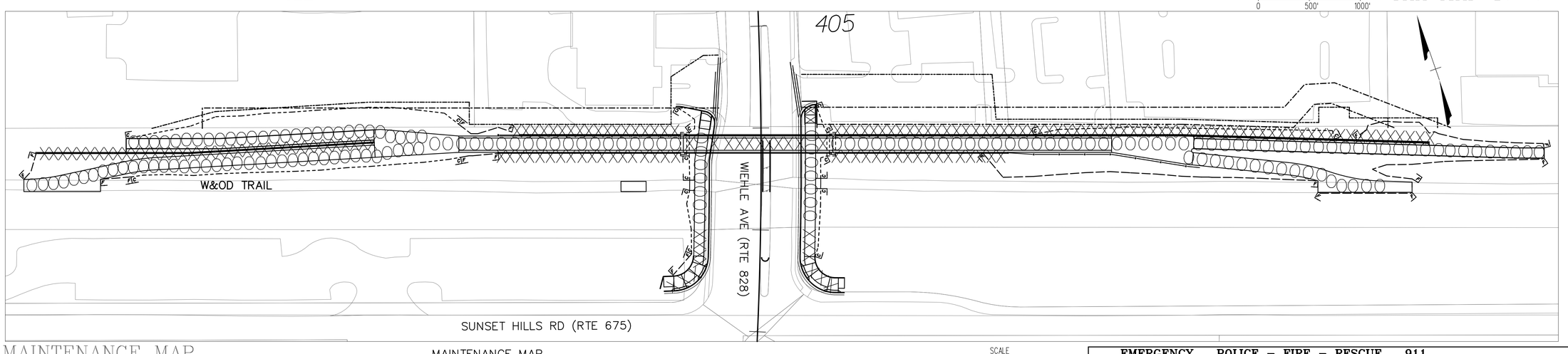
FAIRFAX COUNTY



DISTRICT NAME: HUNTER MILL

SCALE 0 500' 1000'

TAX MAP 17-4



MAINTENANCE MAP

SCALE 0 100' 200'

MAINTENANCE MAP
XXX – VDOT 000 – NVRPA

MAINTENANCE LEGEND:

XXX–VDOT
147 LF – PEDESTRIAN BRIDGE
162 SY – CURB RAMP
50 LF – CONCRETE SIDEWALK
1438 LF – MSE WALL

000 – NVRPA
1800 LF – ASPHALT PATH
200 LF – CONCRETE SIDEWALK

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

NOTE: REFER TO THE W&OD TRAIL MEMORANDUM OF UNDERSTANDING FOR MAINTENANCE RESPONSIBILITIES

Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
LOCATION MAP

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE AS SHOWN
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET 1A

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28,2014 _ _ _ _ _ _ _ _
DESIGN BY _ _WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23,2014

INDEX OF SHEETS

	SHEET NO.	DESCRIPTION	STATIONS	
	1	TITLE SHEET		
	1A	LOCATION AND MAINTENANCE MAP		
	1B	INDEX OF SHEETS		
	1C	RIGHT OF WAY DATA SHEET		
	1D	NOT USED		
	1E	SURVEY ALIGNMENT DATA SHEET		
	1F(1)-1F(2)	CONSTRUCTION ALIGNMENT DATA SHEETS		
	1G	UNDERGROUND UTILITY TEST HOLE INFORMATION		
	1H(1)-1H(10)	SEQUENCE OF CONSTRUCTION / TRANSPORTATION MANAGEMENT PLAN		
*	2	GENERAL NOTES		
*	2A	GENERAL NOTES - UTILITIES		
	2B-2C	TYPICAL SECTIONS		
	2D(1)-2D(2)	CURB RAMP DETAIL SHEETS		
	2E	INSERTABLE SHEETS		
	2F	PROJECT DATA SHEET		
*	2G	AFFIDAVIT OF PHOSPHORUS CREDIT SALE		
	2H(1)-2H(2)	STORM SEWER PROFILES AND DRAINAGE DESCRIPTIONS		
	3	PLAN SHEET	104+25.00 to 112+00.00	200+00.00 to 206+50.06
	3A(1)	W&OD TRAIL PROFILE SHEETS	107+33.38 to 112+00.00	
	3A(2)	GRAVEL TRAIL A PROFILE SHEET	202+00.00 to 206+50.06	
	3B	EROSION AND SEDIMENT CONTROL PLANS	104+25.00 to 112+00.00	200+00.00 to 206+50.06
	4	PLAN SHEET	112+00.00 to 118+75.00	401+25.00 to 406+00.00
	4A(1)	W&OD TRAIL PROFILE SHEET	112+00.00 to 118+75.00	
	4A(2)	WIEHLE AVE (RTE 828) PROFILE SHEET	401+25.00 to 406+00.00	
	4B	EROSION AND SEDIMENT CONTROL PLANS	112+00.00 to 118+75.00	401+25.00 to 406+00.00
	5	PLAN SHEET	118+75.00 to 126+46.64	300+00.00 to 306+40.69
	5A(1)	W&OD TRAIL PROFILE SHEET	118+75.00 to 126+63.00	
	5A(2)	GRAVEL TRAIL B PROFILE SHEET	300+00.00 to 303+75.00	
	5B	EROSION AND SEDIMENT CONTROL PLANS	118+75.00 to 126+46.64	300+00.00 to 306+40.69
	6(1)-6(29)	BRIDGE PLANS, B-6XX, PLAN NO. XXX-XX (29 SHEETS) W&OD TRAIL OVER WIEHLE AVE. (RTE.828)		
	7(1)-7(5)	SIGNING AND MARKING PLANS		
	8(1)-8(2)	SIGNAL PLAN		
	9(1)-9(3)	UTILITY PLANS		
	10(1)-10(6)	SOLDIER PILE RETAINING WALL DETAIL SHEETS		
	100-107	FAIRFAX WATER ADJUSTMENTS		

TOTAL CROSS SECTION SHEETS 24

XS(1)	INDEX OF CROSS SECTION SHEET
XS(2)-XS(20)	W&OD TRAIL CROSS SECTIONS
XS(21)-XS(24)	RTE.828 CROSS SECTIONS

* NOT INCLUDED AT THIS STAGE OF PLAN DEVELOPMENT

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
INDEX OF SHEETS

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE
APPROVED BY THE TRANSPORTATION DESIGN DIVISION				

SCALE NTS
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET 1B

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

RIGHT OF WAY DATA SHEET

City/County: FAIRFAX COUNTY

PARCEL NO.	LANDOWNER	TAX MAP NO.	SHEET NO.	AREA (Areas greater than or equal to 1 acre will be shown in acres to 3 decimal places (x.xxx). Areas less than 1 acre will be shown to square feet (x,xxx).)														PROFFERS
				TOTAL	FEE TAKING		PRESCRIPTIVE R/W		FEE REMAINDER		EASEMENTS							
											PERMANENT		UTILITY		TEMPORARY			
				ACRES OR SQUARE FEET	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	YES / NO
1	NORTHERN VIRGINIA REGIONAL PARK AUTHORITY	28-3 ((1)) 51	3/4/5	104.215 AC													
2	COMMONWEALTH OF VIRGINIA	17-4 ((1)) 32	3/4	2.079 AC													
3	APA PROPERTIES NO 6 LP	17-4 ((5)) 6S4	3/4	3.586 AC									5,234 SF		6,229 SF		NO
4	FAIRFAX COUNTY BOARD OF SUPERVISORS	17-4 ((5)) 5	4	1.000 AC									4,865 SF		3,785 SF		NO
6	SPIRIT MASTER FUNDING III, LLC	17-4 ((15)) (5) 3A	4	26,428 SF	370 SF				26,058 SF		569 SF		3,795 SF		8,911 SF		NO
7	MCDONALDS CORP.	17-4 ((15)) (5) A	4	10,152 SF							72 SF		449 SF		113 SF		NO
8	DAVID W TR BALILES	17-4 ((15)) (5) 4	4/5	37,859 SF							322 SF		2,008 SF		502 SF		NO
9	COMMONWEALTH OF VIRGINIA	17-4 ((1)) 17	4/5	1.506 AC													
10	LEIDOS REALTY, LLC	17-4 ((15)) 4	5	2.734 AC							365 SF		5,513 SF		1,927 SF		NO
11	PCM PROPERTIES LLC	18-3 ((5)) 6	5	2.314 AC									1,180 SF		463 SF		NO

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Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
RIGHT OF WAY DATA SHEET

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE NTS | DESIGNED: NDD DRAFTED: WRA CHECKED: RBH | SHEET 1C

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

SURVEY ALIGNMENT DATA SHEET

LEGEND

COLOR CODES:

W	WATER
G	GAS
T	TELEPHONE
TV	CATV
TC	TRAFFIC CONTROL
E	ELECTRIC
SAN	SANITARY/SFM
UNK	UNKNOWN
ST	STORM
P	PETROLEUM
	(QL-C) OR (QL-D)

SYMBOL:

- MANHOLE
- DROP INLET/CATCH BASIN
- MARKER POST
- VALVE
- FIRE HYDRANT
- HANDHOLE/BOX
- SPRINKLER HEAD
- PED/TRANSFORMER
- METER
- FURNISHED SURVEY CONTROL
- LIGHT POLE
- TRAFFIC CONTROL POLE
- POLE

ALL UTILITY INFORMATION HEREON IS DEPICTED TO QUALITY LEVEL "B" (QL-B) UNLESS OTHERWISE NOTED. QL-B INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO IDENTIFY THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QL-B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO PLAN DOCUMENTS.

SIZE INFORMATION SHOWN HEREON IS TAKEN FROM AVAILABLE UTILITY RECORDS.

ABBREVIATIONS:

(F.O.)	FIBER OPTIC
(QL-C)	DEPICTED ACCORDING TO RECORD INFORMATION AND EXISTING ASSOCIATED UTILITY STRUCTURES. NO ELECTRONIC INFORMATION WAS OBTAINED.
(QL-D)	DEPICTED ACCORDING TO RECORD INFORMATION. NO ELECTRONIC INFORMATION WAS OBTAINED.
(AATUR)	ABANDONED ACCORDING TO UTILITY RECORDS
(AATFI)	ABANDONED ACCORDING TO FIELD INSPECTION
(DATFI)	ABANDONED ACCORDING TO FIELD INSPECTION
(EATFI)	EMPTY ACCORDING TO FIELD INSPECTION
EOI	END OF ELECTRONIC DESIGNATING INFORMATION
EORI	END OF RECORD INFORMATION
NAP	NO ASSOCIATED PIPING FOUND FROM STRUCTURE
NAC	NO ASSOCIATED CABLES FOUND FROM STRUCTURE
PIV	POST INDICATOR VALVE
E	UTILITY END POINT

UNLESS OTHERWISE NOTED, UTILITY LINE LIMITS DEPICTED REPRESENT FIELD DESIGNATING LIMITS AND NOT ENDPOINTS OF UTILITIES.

UTILITY INFORMATION THAT IS LABELED "QL-C" OR "QL-D" IS DERIVED FROM FURNISHED RECORDS. SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE. SD-DEEP EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF UTILITY INFORMATION THAT IS DEPICTED ACCORDING TO RECORDS.

- W — Water Line
- W Duct — Water Line Duct
- Water Valve
- Water Meter
- W — Water Manhole
- Fire Hydrant
- CATV — Underground Television Cable
- CATV Duct — Underground Television Cable Duct
- CAFO — Fiber Optic Cable Television
- Television Hand Hole
- Television Pedestal
- TV Manhole
- T/Tg — Underground Telephone Cable
- T/Tg Duct — Underground Telephone Cable Duct
- TFO — Telephone Fiber Optic
- FO — Underground Fiber Optic
- FO Duct — Underground Fiber Optic Duct
- Fiber Optic Marker
- Telephone Pedestal
- Telephone Manhole
- Telephone Pole
- Telephone Hand Hole
- TC — Underground Traffic Control
- TC Duct — Underground Traffic Control Duct
- TCFO — Traffic Control Fiber Optic
- Traffic Control Hand Hole
- Traffic Control Manhole
- Traffic Signal Pole
- E — Underground Power Cable
- E Duct — Underground Power Cable Duct
- Power Pole
- Electric Box
- Electric Manhole
- Combination Pole
- Light Pole
- Electric Meter
- Electric Hand Hole
- G — Gas Line
- G Duct — Gas Line Duct
- Gas Manhole
- Gas Valve
- Gas Meter
- Gas Well
- SFM — Sanitary Force Main
- S — Gravity Sewer
- Sanitary Manhole
- Sewer Clean Out
- Storm Manhole
- Rail Road Signal / Gate
- Rail Road Telephone Pole
- E — Utility End Point
- VS — Vacuum Sewer
- FUEL — Fuel Line (above or below ground)
- CHEM — Chemical Line (above or below ground)
- Unk — Unknown Utility Line
- (DATUR) — Depicted According To Utility Records
- (AATUR) — Abandoned According To Utility Records
- (AATFI) — Abandoned According To Field Inspection

Utility Designation Notes

General Notes:

This File Is A Compilation Of Previous Projects And The Utility Line Work Depicted Herein Was Prepared For Various Clients Or Projects. The Utility Line Work Has Not Been Field Verified Or Updated To Current Conditions Except For Specific Utilities And Locations Requested In The Scope Of Work Prepared By Whitman Requardt & Associates For The Walney Road Bridge Replacement And Road Widening Project And Provided To Accumark, Inc. Accumark, Inc. Performed An Underground Utility Designation Within The Limits Specified By Whitman Requardt & Associates And Is Depicted Herein. The Utility Designation Was Performed In Accordance With Quality Level B (Location Shown According To Electronic Information) Unless Otherwise Noted As Quality Level C (Location Shown According To Utility Records, Verbal Information, And Surface Features).

Accumark, Inc. Performed The Most Recent Field Inspection And Location Of A Level 3 Fiber Optic Line On 07/16/2014.

The Utility Sizes Shown Are Based On Information Provided By The Utility Owner, Either By Written Record or Verbal Information.

Quality Control / Quality Assurance Review Performed By Frank R. Richardson II, L.S.

Utility Notes:

Water:

(W) *8" Water Inside 50' Steel Casing Pipe*

Gas Note:

(G) *Survey File Shows Water Meter, Field Located Gas Valve At This Location.*

TRAVERSE POINT LOCATION TABLE

POINT #	NORTHING	EASTING	ELEVATION
81	7031243.274	11813511.350	402.31
82	7031210.984	11813922.254	381.66
83	7031259.058	11814128.026	382.32
84	7031125.040	11814157.369	377.57

TOPOGRAPHIC SURVEY LEGEND

- HV-AC
- GUY ANCHOR
- MANHOLE BARREL
- CABLE TV BOX
- CONTROL POINT
- ELECTRIC BOX
- ELECTRIC METER
- ELECTRIC MANHOLE
- FLAG POLE
- FIBER OPTIC MANHOLE
- FIBER OPTIC MARKER
- GUY POLE
- GAS MARKER
- GAS METER
- GAS VENT
- GAS VALVE
- ORNAMENTAL GRAS
- HANDICAP
- IRON PIPE FOUND
- IRRIGATION CONTROL BOX
- IRRIGATION SPRINKLER
- LIGHT POLE
- GROUND LIGHT
- MAILBOX
- NAIL FOUND
- UTILITY POLE
- POST
- RAILROAD SIGNAL
- SANITARY CLEAN OUT
- SANITARY MANHOLE
- SATELLITE DISH
- CONIF. SHRUB
- DECID. SHRUB
- EVERGREEN SHRUB
- SIGN
- STEAM MANHOLE
- STORM GRATE
- STORM MANHOLE
- TELEPHONE BOX
- TELEPHONE CABINET
- TELEPHONE MANHOLE
- TELEPHONE MARKER
- TRASH RECEPTICLE
- DECID. TREE
- CONIF. TREE
- TREE STUMP
- HYDRANT
- WATER METER
- WATER VALVE
- WATER WELL
- STANDPIPE
- UTILITY OVERHEAD
- ELECTRIC LINE OVERHEAD
- ELECTRIC LINE UNDERGROUND
- GAS LINE UNDERGROUND
- GUARD RAIL
- RAILROAD
- SANITARY SEWER LINE
- SHRUB LINE
- STORM SEWER LINE
- TELEPHONE LINE OVERHEAD
- TREE LINE
- WATER LINE UNDERGROUND
- WETLAND DELINEATION
- FENCE LINE

Utility Owners

As Of 06/25/2012
Fairfax County, VA

Water & Sewer:

County of Fairfax - Sewer
Wastewater Management
12000 Government Center Pkwy.
Fairfax, VA 22035
Ned Langdon, GIS
703-324-5002

Fairfax Water Authority
Tech Service Department
8570 Executive Park Ave
Fairfax, VA 22031
Michael Jenkins
703-698-5600 Ext. 6358
mjenkins@fairfaxwater.org

Power:

Dominion Virginia Power
701 E. Cary St.
Richmond, VA 23219
Andrew Brooks
Underground Damage Prevention Manager
Dominion Emergency Preparedness Center
804-771-3655
Andrew.Brooks@dom.com

Telephone:

Verizon
Field Contact: Dean Rasmussen
434-942-8192

Cable TV:

Cox Communications
3080 Centreville Road
Herndon, VA 20171
Bill Henry
703-480-7823
Bill.Henry@cox.com

Fiber Optic:

AT&T Corp.
4800 Winchester Blvd
Frederick, MD 21703
Gary Wigfield
301-874-1180
gwigfield@att.com

MCI
Verizon Business
2400 N. Glenville Dr.
Richardson, TX 75082
Attn: Investigations
800-624-9675
972-729-6240 Fax
Investigations@Verizon.com

TW Telecom
12343 Sunrise Valley Drive
Reston, VA 22191
Judy Heward-Pascale
248-390-8240
Judy.Heward-Pascale@twtelecom.com

FiberLight, LLC
3655 Brookside Parkway, Suite 550
Alpharetta, GA 30022
Chris Russell
703-650-8465

Level (3) Communications, LLC
1025 Eldorado Blvd., 33A-516
Broomfield, CO 80021
Megan Sturdevant
720-888-3860
Megan.Sturdevant@Level3.com

Gas:
Washington Gas
6801 Industrial Road
Springfield, VA 22151
703-750-1000

EMERGENCY POLICE - FIRE - RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS	△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
SURVEY ALIGNMENT DATA SHEET

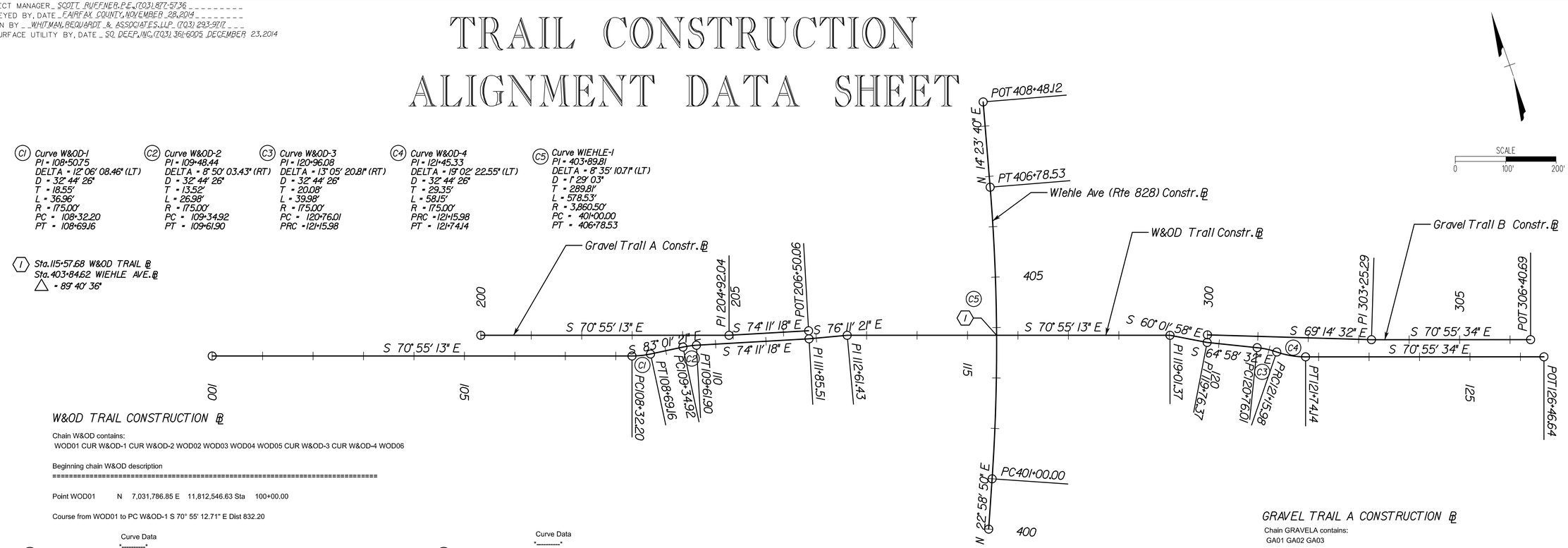
PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
NTS	DRAFTED: WRA	1E
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28,2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23,2014

TRAIL CONSTRUCTION
ALIGNMENT DATA SHEET



C1 Curve W&OD-1
PI = 108+50.75
DELTA = 12° 06' 08.46" (LT)
D = 32° 44' 26"
T = 18.55'
L = 36.96'
R = 175.00'
PC = 108+32.20
PT = 108+69.16

C2 Curve W&OD-2
PI = 109+48.44
DELTA = 8° 50' 03.43" (RT)
D = 32° 44' 26"
T = 13.52'
L = 26.98'
R = 175.00'
PC = 109+34.92
PT = 109+61.90

C3 Curve W&OD-3
PI = 120+96.08
DELTA = 13° 05' 20.81" (RT)
D = 32° 44' 26"
T = 20.08'
L = 39.98'
R = 175.00'
PRC = 121+15.98

C4 Curve W&OD-4
PI = 121+45.33
DELTA = 19° 02' 22.55" (LT)
D = 32° 44' 26"
T = 29.35'
L = 58.15'
R = 175.00'
PRC = 121+15.98
PT = 121+74.14

C5 Curve WIEHLE-1
PI = 403+89.81
DELTA = 8° 35' 10.71" (LT)
D = 1° 29' 03"
T = 289.81'
L = 578.53'
R = 3,860.50'
PC = 401+00.00
PT = 406+78.53

1 Sta.115+57.68 W&OD TRAIL ℄
Sta.403+84.62 WIEHLE AVE.℄
△ = 89° 40' 36"

W&OD TRAIL CONSTRUCTION ℄

Chain W&OD contains:
WOD01 CUR W&OD-1 CUR W&OD-2 WOD02 WOD03 WOD04 WOD05 CUR W&OD-3 CUR W&OD-4 WOD06

Beginning chain W&OD description
==========

Point WOD01 N 7,031,786.85 E 11,812,546.63 Sta 100+00.00

Course from WOD01 to PC W&OD-1 S 70° 55' 12.71" E Dist 832.20

C1
Curve Data

Curve W&OD-1
P.I. Station 108+50.75 N 7,031,508.76 E 11,813,350.65
Delta = 12° 06' 08.46" (LT)
Degree = 32° 44' 25.60"
Tangent = 18.55
Length = 36.96
Radius = 175.00
External = 0.98
Long Chord = 36.90
Mid. Ord. = 0.98
P.C. Station 108+32.20 N 7,031,514.82 E 11,813,333.11
P.T. Station 108+69.16 N 7,031,506.50 E 11,813,369.06
C.C. N 7,031,680.21 E 11,813,390.32
Back = S 70° 55' 12.71" E
Ahead = S 83° 01' 21.17" E
Chord Bear = S 76° 58' 16.94" E

Course from PT W&OD-1 to PC W&OD-2 S 83° 01' 21.17" E Dist 65.76

C2
Curve Data

Curve W&OD-2
P.I. Station 109+48.44 N 7,031,496.87 E 11,813,447.75
Delta = 8° 50' 03.43" (RT)
Degree = 32° 44' 25.60"
Tangent = 13.52
Length = 26.98
Radius = 175.00
External = 0.52
Long Chord = 26.96
Mid. Ord. = 0.52
P.C. Station 109+34.92 N 7,031,498.51 E 11,813,434.33
P.T. Station 109+61.90 N 7,031,493.19 E 11,813,460.76
C.C. N 7,031,324.81 E 11,813,413.07
Back = S 83° 01' 21.17" E
Ahead = S 74° 11' 17.74" E
Chord Bear = S 78° 36' 19.45" E

Course from PT W&OD-2 to WOD02 S 74° 11' 17.74" E Dist 223.60

Point WOD02 N 7,031,432.26 E 11,813,675.90 Sta 111+85.51

Course from WOD02 to WOD03 S 76° 11' 20.50" E Dist 75.92

Point WOD03 N 7,031,414.14 E 11,813,749.63 Sta 112+61.43

Course from WOD03 to WOD04 S 70° 55' 12.71" E Dist 639.94

Point WOD04 N 7,031,204.95 E 11,814,354.41 Sta 119+01.37

Course from WOD04 to WOD05 S 60° 01' 58.43" E Dist 74.99

Point WOD05 N 7,031,167.49 E 11,814,419.38 Sta 119+76.37

Course from WOD05 to PC W&OD-3 S 64° 58' 32.34" E Dist 99.64

C3
Curve Data

Curve W&OD-3
P.I. Station 120+96.08 N 7,031,116.85 E 11,814,527.86
Delta = 13° 05' 20.81" (RT)
Degree = 32° 44' 25.60"
Tangent = 20.08
Length = 39.98
Radius = 175.00
External = 1.15
Long Chord = 39.89
Mid. Ord. = 1.14
P.C. Station 120+76.01 N 7,031,125.34 E 11,814,509.67
P.T. Station 121+15.98 N 7,031,104.46 E 11,814,543.66
C.C. N 7,030,966.77 E 11,814,435.64
Back = S 64° 58' 32.34" E
Ahead = S 51° 53' 11.53" E
Chord Bear = S 58° 25' 51.94" E

C4
Curve Data

Curve W&OD-4
P.I. Station 121+45.33 N 7,031,086.34 E 11,814,566.75
Delta = 19° 02' 22.55" (LT)
Degree = 32° 44' 25.60"
Tangent = 29.35
Length = 58.15
Radius = 175.00
External = 2.44
Long Chord = 57.89
Mid. Ord. = 2.41
P.C. Station 121+15.98 N 7,031,104.46 E 11,814,543.66
P.T. Station 121+74.14 N 7,031,076.75 E 11,814,594.48
C.C. N 7,031,242.15 E 11,814,651.67
Back = S 51° 53' 11.53" E
Ahead = S 70° 55' 34.08" E
Chord Bear = S 61° 24' 22.81" E

Course from PT W&OD-4 to WOD06 S 70° 55' 34.08" E Dist 472.50

Point WOD06 N 7,030,922.35 E 11,815,041.04 Sta 126+46.64

==========
Ending chain W&OD description

WIEHLE AVE (RTE 820) CONSTRUCTION ℄

Chain WIEHLE contains:
WA01 CUR WIEHLE-1 WA02

Beginning chain WIEHLE description
==========

Point WA01 N 7,030,959.34 E 11,813,889.19 Sta 400+00.00

Course from WA01 to PC WIEHLE-1 N 22° 58' 50.33" E Dist 100.00

C5
Curve Data

Curve WIEHLE-1
P.I. Station 403+89.81 N 7,031,318.21 E 11,814,041.38
Delta = 8° 35' 10.71" (LT)
Degree = 1° 29' 02.96"
Tangent = 289.81
Length = 578.53
Radius = 3,860.50
External = 10.86
Long Chord = 577.99
Mid. Ord. = 10.83
P.C. Station 401+00.00 N 7,031,051.41 E 11,813,928.24
P.T. Station 406+78.53 N 7,031,598.92 E 11,814,113.43
C.C. N 7,032,558.62 E 11,810,374.12
Back = N 22° 58' 50.33" E
Ahead = N 14° 23' 39.63" E
Chord Bear = N 18° 41' 14.98" E

Course from PT WIEHLE-1 to WA02 N 14° 23' 39.63" E Dist 169.58

Point WA02 N 7,031,763.18 E 11,814,155.59 Sta 408+48.12

==========
Ending chain WIEHLE description

GRAVEL TRAIL A CONSTRUCTION ℄

Chain GRAVELA contains:
GA01 GA02 GA03

Beginning chain GRAVELA description
==========

Point GA01 N 7,031,651.52 E 11,813,063.31 Sta 200+00.00

Course from GA01 to GA02 S 70° 55' 12.71" E Dist 492.04

Point GA02 N 7,031,490.68 E 11,813,528.32 Sta 204+92.04

Course from GA02 to GA03 S 74° 11' 17.74" E Dist 158.02

Point GA03 N 7,031,447.63 E 11,813,680.36 Sta 206+50.06

==========
Ending chain GRAVELA description

GRAVEL TRAIL B CONSTRUCTION ℄

Chain GRAVELB contains:
GB01 GB02 GB03

Beginning chain GRAVELB description
==========

Point GB01 N 7,031,181.48 E 11,814,424.90 Sta 300+00.00

Course from GB01 to GB02 S 69° 14' 31.62" E Dist 325.29

Point GB02 N 7,031,066.19 E 11,814,729.07 Sta 303+25.29

Course from GB02 to GB03 S 70° 55' 34.08" E Dist 315.40

Point GB03 N 7,030,963.12 E 11,815,027.15 Sta 306+40.69

==========
Ending chain GRAVELB description

Whitman, Requardt & Associates, LLP

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE
	APPROVED BY THE TRANSPORTATION DESIGN DIVISION			

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
CONSTRUCTION ALIGNMENT DATA SHEET

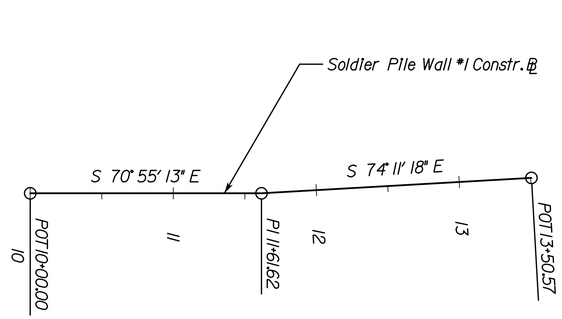
PROJECT NO: 1400102-2013

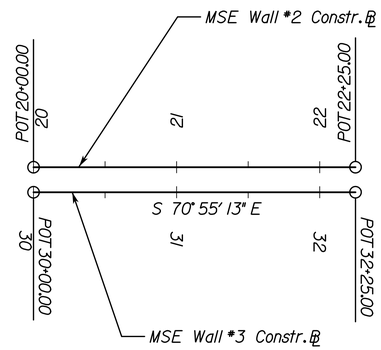
SCALE	DESIGNED: NDD	SHEET
1"=100'	DRAFTED: WRA	1F(1)
	CHECKED: RBH	

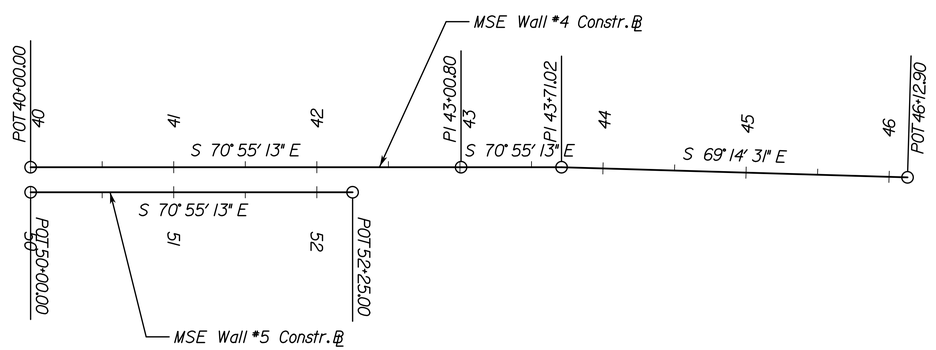
FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

RETAINING WALL CONSTRUCTION
ALIGNMENT DATA SHEET







Soldier Pile Wall #1 Constr.℄

Chain RW-1 contains:
RW10 RW11 RW12

Beginning chain RW-1 description
==========

Point RW10 N 7,031,544.25 E 11,813,343.64 Sta 10+00.00

Course from RW10 to RW11 S 70° 55' 12.71" E Dist 161.62

Point RW11 N 7,031,491.41 E 11,813,496.39 Sta 11+61.62

Course from RW11 to RW12 S 74° 11' 17.74" E Dist 188.94

Point RW12 N 7,031,439.93 E 11,813,678.18 Sta 13+50.57

==========
Ending chain RW-1 description

MSE Wall #2 Constr.℄

Chain RW-2 contains:
RW20 RW21

Beginning chain RW-2 description
==========

Point RW20 N 7,031,417.73 E 11,813,765.23 Sta 20+00.00

Course from RW20 to RW21 S 70° 55' 12.71" E Dist 225.00

Point RW21 N 7,031,344.19 E 11,813,977.87 Sta 22+25.00

==========
Ending chain RW-2 description

MSE Wall #3 Constr.℄

Chain RW-3 contains:
RW30 RW31

Beginning chain RW-3 description
==========

Point RW30 N 7,031,401.20 E 11,813,759.51 Sta 30+00.00

Course from RW30 to RW31 S 70° 55' 12.71" E Dist 225.00

Point RW31 N 7,031,327.65 E 11,813,972.15 Sta 32+25.00

==========
Ending chain RW-3 description

MSE Wall #4 Constr.℄

Chain RW-4 contains:
RW40 RW41 RW42 RW43

Beginning chain RW-4 description
==========

Point RW40 N 7,031,311.50 E 11,814,072.38 Sta 40+00.00

Course from RW40 to RW41 S 70° 55' 12.70" E Dist 300.80

Point RW41 N 7,031,213.17 E 11,814,356.66 Sta 43+00.80

Course from RW41 to RW42 S 70° 55' 12.72" E Dist 70.21

Point RW42 N 7,031,190.22 E 11,814,423.01 Sta 43+71.02

Course from RW42 to RW43 S 69° 14' 31.42" E Dist 241.88

Point RW43 N 7,031,104.49 E 11,814,649.19 Sta 46+12.90

==========
Ending chain RW-4 description

MSE Wall #5 Constr.℄

Chain RW-5 contains:
RW50 RW51

Beginning chain RW-5 description
==========

Point RW50 N 7,031,294.96 E 11,814,066.66 Sta 50+00.00

Course from RW50 to RW51 S 70° 55' 12.71" E Dist 225.00

Point RW51 N 7,031,221.41 E 11,814,279.30 Sta 52+25.00

==========
Ending chain RW-5 description

SCALE
0 50' 100'

NOTES

1. FOR SOLDIER PILE WALL BEGIN AND END STATIONS, SEE SHEET 10(2).
2. FOR MSE WALL BEGIN AND END STATIONS, SEE SHEETS 6(24) - 6(25).

WRA
Whitman, Requardt & Associates, LLP

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
WALL ALIGNMENT DATA SHEET

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE 1"=50'
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET 1F(2)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

UNDERGROUND UTILITY TEST HOLE INFORMATION

PLAN SHEET	TEST HOLE	OFFSET (FT)	STATION	OWNER	TYPE OF FACILITY	ELEV.
3	1	25.85 LT	110+06.04	PCCP	30" WATER LINE	388.18'
3	2	7.99 LT	110+67.11	LEVEL 3	(3) 1 3/4" FO CONDUIT	389.18'
3	3	4.25 RT	113+22.75	LEVEL 3	(3) 1 3/4" FO CONDUIT	385.03'
4	4	39.83 LT	404+12.71		3" CATV CONDUIT	379.65'
4	5	38.40 LT	404+11.33	LEVEL 3	(4) 2" FO CONDUIT	371.50'
4	6	35.01 LT	404+08.96	LEVEL 3	(2) 2" PLASTIC CONDUIT	378.47'
4	7	39.62 RT	404+09.67	COX LEVEL 3	(2) 2 1/2" CONDUIT (2) 2" CONDUIT 2.16' RPC DUCT 4 1/2" TELEPHONE CONDUIT	380.49'
4	10	7.11 RT	404+10.59		12 3/4" D.I. WATER LINE	372.42'
4	11	33.69 RT	404+07.31	VERIZON BUSINESS	(4) 1 1/2" FO CONDUIT	379.34'
4	12	26.11 RT	404+10.02		8 1/2" PLASTIC GAS LINE	374.46'
4	13	45.49 RT	404+09.61		(3) 2" ELECTRIC CABLE	381.12'
4	14	57.78 RT	404+09.55		(3) 2 1/4" ELECTRIC CABLE	377.68'
4	15	61.42 LT	403+84.53	COMCAST	(3) 1 3/4" FO CONDUIT	378.80'
4	16	38.08 RT	114+25.53		(3) 2" ELECTRIC CABLE	375.92'
4	17	48.78 RT	114+39.48	AT&T	4/12" FO CONDUIT	376.16'
4	18	49.24 LT	402+90.64	LEVEL 3	(4) 2" FO CONDUIT	373.02'
4	19	51.70 LT	402+90.87	NOT IDENTIFIED	1/2" CATV (3) 3/4" CATV (3) 1" CATV (2) CATV	377.55'
4	20	53.08 LT	402+90.87	LEVEL 3	(7+) FO CONDUIT	376.79'
4	21	56.58 LT	402+90.81	COX TRAFFIC CONTROL COMCAST LEVEL 3	(2) 2 1/2" FO CONDUIT 3 1/2" CONDUIT (3) 1 3/4" CONDUIT (2) 2" FO CONDUIT	379.00'
4	22	57.90 LT	402+87.68	LEVEL 3	4 1/2" FO CONDUIT	379.68'
4	23	73.59 LT	402+56.32		2 1/4" ELECTRIC CONDUIT	380.54'
4	24	23.43 RT	402+88.24	COX	2 1/2" FO CONDUIT 8 1/2" PLASTIC GAS LINE	375.46'
4	25	38.52 RT	402+88.72	LEVEL 3 ZAYO	(8) 2" FO CONDUIT (4) 2" FO CONDUIT	377.54'
4	26	41.18 RT	402+89.06		1.62' RPC DUCT (2) TELEPHONE CONDUIT	377.33'
4	27	43.01 RT	402+88.71	VERIZON BUSINESS COX	(4) 1 1/2" FO CONDUIT 2 1/2" FO CONDUIT	376.96'
4	28	45.37 RT	402+78.83	CENTURYLINK COX	HAND HOLE 2 1/2" FO CONDUIT	378.40'
4	29	58.97 RT	402+73.31	COMCAST	(3) 1 3/4" FO CONDUIT 4 1/2" PLASTIC CONDUIT	376.14'
5	30	8.03 RT	119+12.33	LEVEL 3	(3) 1 3/4" FO CONDUIT	368.12'
5	31	29.95 LT	119+07.25	VERIZON VERIZON	4 1/2" FO CONDUIT 2 1/4" CABLE	371.82'
5	32	73.70 LT	121+68.10	VERIZON VERIZON	4 1/2" FO CONDUIT 2 1/4" CABLE	358.85'
5	33	51.04 LT	123+79.55	PCCP	30" WATER LINE	365.17'
4	34	35.80 RT	404+09.66	ZAYO	(4) 2" FO CONDUIT	378.53'

Whitman, Requardt & Associates, LLP

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EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
UNDERGROUND UTILITY TEST HOLE INFORMATION
PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
1"=100'	DRAFTED: WRA	1G
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

SEQUENCE OF CONSTRUCTION

COMMONWEALTH OF VIRGINIA
REGINA BRIGHT HERR
Lic. No. 028548
PROFESSIONAL ENGINEER

Regina B Herr
2018.05.29 13:29:22 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

PROJECT DESCRIPTION

THIS TASK CONSISTS OF THE CONSTRUCTION OF IMPROVEMENTS TO THE W&OD TRAIL (BOTH ASPHALT AND GRAVEL PATHS) AND A BRIDGE OVER WIEHLE AVENUE. THE PROPOSED IMPROVEMENTS INCLUDE CONSTRUCTING A 12 FOOT WIDE ASPHALT TRAIL AND BRIDGE OVER WIEHLE AVENUE, NEW MSE WALLS, INSTALLING CURB RAMPS, NEW SIDEWALK, DRAINAGE IMPROVEMENTS AND CONSTRUCTING CURB AND GUTTER. THE PROJECT ALSO INCORPORATES RELOCATION OF AN EXISTING WATER MAIN AND UPGRADE TO THE EXISTING SIGNAL AT THE INTERSECTION OF WIEHLE AVENUE AND SUNSET HILLS ROAD.

WITHIN THE PROJECT LIMITS THE W&OD TRAIL WILL TRAVEL THROUGH NVRPA PROPERTY. AS THE PHYSICAL IMPROVEMENTS ARE LIMITED TO THE PATH AND SIDEWALK WORK, IMPACTS TO THE ROADWAYS WILL BE LIMITED TO WIEHLE AVENUE

ALLOWABLE HOURS FOR CLOSURES

THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MAINTAIN THE EXISTING TRAVEL LANES OPEN TO TRAFFIC AT ALL TIMES. LANE CLOSURES HOURS ARE IN ACCORDANCE WITH LANE CLOSURES IN NOVA DISTRICT MEMORDANDUM DATED 9/29/2016. LANE CLOSURES HOURS FOR CONSTRUCTION SHALL BE PERMITTED DURING THE FOLLOWING HOURS:

WIEHLE AVENUE (RTE.828) & SUNSET HILLS ROAD (RTE 675) URBAN MINOR ARTERIAL (GS-6)	
	SINGLE LANE CLOSURES OR SHOULDER
MONDAY TO THURSDAY	9:00AM TO 3:30PM
	9:00PM TO 5:00AM
FRIDAY	9:00AM TO 2:00PM
FRIDAY TO SATURDAY	10:00PM TO 9:00AM
SATURDAY TO SUNDAY	9:00PM TO 9:00AM
SUNDAY TO MONDAY	10:00PM TO 5:00AM

W&OD TRAIL	
	TRAIL CLOSURE
MONDAY TO THURSDAY	9:00PM TO 5:00AM
FRIDAY	9:00PM TO 5:00AM
FRIDAY TO SATURDAY	9:00PM TO 5:00AM
SATURDAY TO SUNDAY	9:00PM TO 5:00AM
SUNDAY TO MONDAY	9:00PM TO 5:00AM

- SINGLE-LANE CLOSURES ARE ONLY PERMITTED FOR MULTIPLE-LANE ROADWAYS.

EXCEPT AS NECESSARY TO MAINTAIN TRAFFIC, WORK SHALL NOT BE PERFORMED ON THE FOLLOWING HOLIDAYS WITHOUT THE APPROVAL OF THE ENGINEER: NEW YEAR'S DAY, MARTIN LUTHER KING, JR. DAY, PRESIDENT'S DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING DAY, AND CHRISTMAS DAY. LANE CLOSURES WILL NOT BE PERMITTED FROM NOON THE DAY BEFORE A HOLIDAY UNTIL NOON THE DAY AFTER A HOLIDAY UNLESS OTHERWISE APPROVED BY THE ENGINEER. WHEN A HOLIDAY FALLS ON A FRIDAY, LANE CLOSURES ARE NOT PERMITTED FROM NOON THURSDAY UNTIL NOON ON MONDAY. WHEN THE HOLIDAY FALLS ON MONDAY, LANE CLOSURES ARE NOT PERMITTED FROM NOON FRIDAY UNTIL NOON ON TUESDAY. ADDITIONAL STATE HOLIDAYS MAY BE ADDED TO THIS LIST AT THE DIRECTION OF THE ENGINEER.

TOTAL CLOSURE OF WIEHLE AVENUE SHALL NOT EXCEED 20 MINUTES IN ACCORDANCE WITH TTC-50.0. CONTRACTOR SHALL USE A DETOUR IF WORK CAN NOT BE PERFORMED WITHIN THE ALLOWABLE CLOSURE TIMEFRAME.

PUBLIC COMMUNICATIONS PLAN

THE CONTRACTOR SHALL SUBMIT A REQUEST FOR ALL LANE CLOSURES TO VDOT 10 DAYS IN ADVANCE OF THE CLOSURE. THE ENGINEER WILL COMMUNICATE WITH THE VDOT NORTHERN VIRGINIA PUBLIC AFFAIRS SECTION, FAIRFAX COUNTY SUPERVISORS, FEDERAL AGENCIES AND SCHOOLS IN CLOSE PROXIMITY, RADIO AND TELEVISION, EMERGENCY SERVICES, VDOT, AND THE TRAFFIC OPERATIONS CENTER, AS DETERMINED APPROPRIATE.


Commonwealth of Virginia
Virginia Department of Transportation
VDOT
VERIFICATION OF COMPLETION OF
ADVANCED WORK ZONE TRAFFIC CONTROL TRAINING
This is to verify that **Regina B. Herr** has successfully completed training and an examination by the Department on the proper practices and methods for the installation, maintenance and removal of temporary traffic control devices.
Date: 4/9/2016
State Traffic Engineer
Verification No. : 04191603I
Expiration Date: 4/30/2020

GENERAL NOTES

1. THE TMP FOR THIS PROJECT IS CATEGORIZED AS TYPE B, CATEGORY III.
2. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE THE WORK IN ACCORDANCE WITH THIS TRANSPORTATION MANAGEMENT PLAN.
3. THE TRANSPORTATION MANAGEMENT PLAN (TMP) IS INTENDED AS A GUIDE. IT IS NOT INTENDED TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF THIS PROJECT, BUT ONLY TO SHOW THE GENERAL HANDLING OF EXISTING TRAFFIC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESENT A FORMAL TMP/MAINTENANCE OF TRAFFIC (MOT) PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION THAT MAY AFFECT THE EXISTING TRAFFIC, INCLUDING THE MODIFICATION OF EXISTING TRAFFIC SIGNALS.
4. ALL TRAFFIC MAINTENANCE SHALL CONFORM WITH THE FOLLOWING AND THE LATEST REVISIONS THERETO:
   A. 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (REV.2)
   B. 2011 VIRGINIA SUPPLEMENT TO THE 2009 MUTCD (REV.1)
   C. 2011 VIRGINIA WORK AREA PROTECTION MANUAL (REV.1)
   D. 2016 VDOT ROAD AND BRIDGE STANDARDS (LATEST REVISION)
   E. 2016 VDOT ROAD AND BRIDGE SPECIFICATIONS (LATEST REVISION)
5. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO VDOT FOR APPROVAL. THE CONTRACTOR SHOULD REFER TO VIRGINIA WORK AREA PROTECTION MANUAL, SPECIFICALLY THE FOLLOWING STANDARDS

   TTC-27.1 - LANE CLOSURE OPERATION - FAR SIDE OF AN INTERSECTION

   TTC-29.1 - TURN LANE CLOSURE OPERATION

   TTC-35.0 - SIDEWALK CLOSURE AND BYPASS SIDEWALK OPERATION

   TTC-36.1 - CROSSWALK CLOSURE AND PEDESTRIAN DETOUR OPERATION

   TTC-50.0 - DISRUPTION OPERATION ON A MULTI-LANE ROADWAY.

   TTC-53.0 - SIGNING FOR PROJECT LIMITS.
6. FOR DETAILS OF PERMANENT CONSTRUCTION, REFER TO THE CONSTRUCTION PLANS (SHEETS 3-5).
7. TEMPORARY LANE WIDTHS SHALL NOT BE LESS THAN 11 FT.
8. AT THE CONCLUSION OF EACH WORKDAY, EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN THE ESTABLISHED 11.5' CLEAR ZONE AND/OR DEFLECTION ZONE OF PHYSICAL BARRIERS IN ACCORDANCE WITH THE WORK AREA PROTECTION MANUAL. ANY AREAS EXCAVATED BELOW THE EXISTING PAVEMENT SURFACE AND WITHIN THE CLEAR ZONE, SHALL BE BACK FILLED WITH APPROVED MATERIAL TO FORM AN APPROXIMATE 6:1 WEDGE AGAINST THE EXISTING PAVEMENT SURFACE FOR THE SAFETY AND PROTECTION OF VEHICULAR TRAFFIC. ALL COST FOR PLACING, MAINTAINING, AND REMOVING THE 6:1 WEDGE SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. IF UTILIZED, TRAFFIC BARRIER SERVICE SHALL BE INSTALLED AND REMOVED SO AS NOT TO PRESENT ANY BLUNT END OR HAZARD TO THE MOTORING PUBLIC. THE PLACEMENT AND REMOVAL OF THE TRAFFIC BARRIER SERVICE AND BARRICADES ARE TO BE COORDINATED BY THE PROJECT SAFETY OFFICER.
10. THE EXISTING POSTED SPEED LIMITS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE ENGINEER.
11. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAY ENTRANCES DURING CONSTRUCTION.
12. TEMPORARY CLOSURE AFFECTING EGRESS TO ADJACENT PROPERTIES SHALL BE COORDINATED WITH AFFECTED PARTIES.
13. CONTRACTOR SHALL MAINTAIN SAFE PASSAGE FOR PEDESTRIANS AND BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT.
14. THE CONTRACTOR SHALL MAINTAIN ALL SIGNAGE WITHIN THE LIMITS OF CONSTRUCTION, SHOWN OR OTHERWISE, UNLESS DIRECTED BY THE ENGINEER. IF REMOVAL IS ALLOWED, CONTRACTOR SHALL STORE THE SIGNS PER VDOT STANDARDS, AND IF DIRECTED, REPLACE THEM AT THE COMPLETION OF THE PROJECT.
15. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FOR THE DURATION OF THE PROJECT. ADDITIONAL TEMPORARY MEASURES MAY BE NEEDED TO FACILITATE PROPER POSITIVE DRAINAGE.
16. THE CONTRACTOR SHALL SCHEDULE ALL PHASES OF CONSTRUCTION IN SUCH MANNER THAT WATER, SEWER, CABLE, POWER, AND ANY OVERHANGING OR UNDERGROUND UTILITY SERVICES WILL NOT BE INTERRUPTED. THE COST OF ANY TEMPORARY CONNECTION, IN PART OR WHOLE, SHALL BE INCIDENTAL TO THE UTILITY RELOCATION/CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THEIR UTILITY ADJUSTMENTS/RELOCATION ACTIVITIES WITH THE OWNER OF THE UTILITY.
17. ALL EROSION AND SEDIMENT CONTROL MEASURES AND TEMPORARY DRAINAGE SHALL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION.
18. ALL PAVEMENT MARKINGS AND TRAFFIC FLOW ARROWS ARE SCHEMATIC ONLY. THE ACTUALLY LOCATION AND APPLICATION OF PAVEMENT MARKINGS SHALL BE INSTALLED PER THE SIGNING AND PAVEMENT MARKINGS PLANS AND IN ACCORDANCE WITH SECTION 704 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS; THE MUTCD 2009 EDITION; THE 2016 ROAD AND BRIDGE STANDARDS; OR AS DIRECTED BY THE ENGINEER.
19. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING A MINIMUM OF 10 WORKING DAYS PRIOR TO IMPLEMENTATION OF ANY WORK REQUIRING LANE SHIFTS, LANE CLOSURES, AND/OR PHASE CHANGES.
20. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONSTRUCTION, SIGNING, AND TRAFFIC MANAGEMENT PLAN WITH OTHER ADJACENT PROJECTS UNDER CONSTRUCTION.
21. DISPOSAL SITE AND STAGING AREA LOCATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO WORK SHALL BE PERFORMED UNTIL SUCH SITES HAVE BEEN ACCEPTED BY THE ENGINEER.
22. WHEN POLICE PRESENCE IS REQUIRED FOR A LANE CLOSURE OPERATION, THE ENGINEER SHALL CONTACT THE VIRGINIA STATE POLICE DIVISION SEVEN HEADQUARTERS, 4977 ALLIANCE DRIVE, FAIRFAX, VIRGINIA, 22030 TELEPHONE 703-803-2660, OR THE FAIRFAX COUNTY POLICE DEPARTMENT, 12099 GOVERNMENT CENTER PARKWAY FAIRFAX, VA 22035, TELEPHONE 703-691-2131 TO REQUEST POLICE SUPPORT AND GIVE THE POLICE A MINIMUM OF 5 DAYS ADVANCE NOTICE. THE ENGINEER SHALL NOTIFY THE POLICE OF ANY CANCELLATION AT LEAST 24 HOURS \N ADVANCE TO AVOID ADDITIONAL CHARGES. THE COST OF POLICE SUPPORT SHALL BE INCLUDED IN THE COST OF PROJECT MOBILIZATION.

SEQUENCE OF CONSTRUCTION

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY.

CONTRACTOR SHALL INSTALL 6' CONSTRUCTION SAFETY FENCE AROUND WORK AREAS AS NEEDED TO ENSURE PUBLIC SAFETY. FENCE SHALL BE A MINIMUM OF 3' FROM THE EDGE OF PAVEMENT ON THE ACTIVE TRAIL.

PEDESTRIAN DETOURS SHALL BE INSTALLED ALONG WIEHLE AVENUE FOR CONSTRUCTION OF BRIDGE ABUTMENTS AND SIDEWALK IMPROVEMENTS AS SHOWN ON PLANS AND IN ACCORDANCE WITH FIGURE TTC-35.0 OF THE VWAPM.

CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT UNLESS OTHERWISE SHOWN. ACCESS TO THE W&OD TRAIL LOCATED WITHIN THE PROJECT LIMITS SHALL BE MAINTED DURING ALL PHASES OF CONSTRUCTION.

INSTALLATION OF SIGNING FOR THE PROJECT LIMITS SHALL BE IN ACCORDANCE WITH FIGURE TTC-53.0 OF THE VWAPM.

CONSTRUCTION ACTIVITIES SHALL NOT BE PERFORMED ON BOTH SIDES OF THE W&OD TRAIL UNLESS OTHERWISE APPROVED BY THE ENGINEER.

PHASE 1:

STAGE 1 - CONSTRUCT OPEN-CUT WATER LINE RELOCATION ACROSS WIEHLE AVENUE USING SIMILAR METHODS TO PHASE 4. CONTRACTOR SHALL MAINTAIN A MINIMUM OF AT LEAST 1 LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES, UTILIZING TTC-27.1, 29.1, AND 36.1.

STAGE 2 - CONTRACTOR SHALL CLOSE THE GRAVEL TRAIL BETWEEN ISAAC NEWTON SQUARE AND MICHAEL FARADAY COURT AND INSTALL PEDESTRIAN DETOUR SIGNING PER FIGURE 1 ON SHEET 1H(2). CONSTRUCT BRIDGE ABUTMENTS, MSE WALLS, AND TRAIL IMPROVEMENTS AS SHOWN ON THE PLANS.

STAGE 3 - CONSTRUCT THE TIE IN TO THE EXISTING W&OD TRAIL AND DRAINAGE IMPROVEMENTS AFFECTING THE ACTIVE TRAIL DURING OFF HOURS.

PHASE 2:

STAGE 1 - CONSTRUCT THE DRAINAGE IMPROVEMENTS AS SHOWN ON THE PLANS. BUILD BRIDGE ABUTMENTS, MSE WALLS, AND TRAIL IMPROVEMENTS AS SHOWN ON THE PLANS.

STAGE 2 - CONSTRUCT THE TIE IN TO THE EXISTING W&OD TRAIL DURING OFF HOURS.

PHASE 3:

THE CONTRACTOR SHALL SET UP A NIGHTTIME CLOSURE OF WHIELE AVENUE BETWEEN SUNSET HILLS AND ROGER BACON DRIVE IN ACCORDANCE WITH FIGURE TTC-50.0 OF THE VA WAPM. INSTALL PREFRABRICATED BRIDGE. THE CONTRACTOR SHALL COORDINATE THE ROAD CLOSURE WITH FAIRFAX COUNTY FIRE STATION 25 (703-437-7575).

PHASE 4:

STAGE 1 - CLOSE THE RIGHT TURN LANE ON SOUTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-29.1 OF THE VA WAPM AS NEEDED. CONSTRUCT THE NEW PAVEMENT, CURB AND GUTTER, SIDEWALK AND CURB RAMPS ON THE WEST SIDE OF WIEHLE AVENUE.

STAGE 2 - CLOSE THE OUTSIDE LANE ON NORTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-27.1 OF THE VA WAPM AS NEEDED. CONSTRUCT THE NEW PAVEMENT, CURB AND GUTTER, SIDEWALK AND CURB RAMPS ON THE EAST SIDE OF WIEHLE AVENUE.

STAGE 3 - CLOSE THE INSIDE LANE ON NORTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-27.1 OF THE VA WAPM. CLOSE THE LEFT TURN LANE ON SOUTHBOUTH WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-29.1 OF THE VA WAPM. CONSTRUCT THE NEW CURB AS SHOWN ON THE PLANS. INSTALL FINAL ROADWAY MARKINGS.

WRA
Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
SEQUENCE OF CONSTRUCTION

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
NTS	DRAFTED: WRA	1H(1)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

Typical Traffic Control
Lane Closure Operation – Far Side of an Intersection
(Figure TTC-27.1)
NOTES

Guidance:

1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.

Standard:

2. On divided highways having a median wider than 8', right and left sign assemblies shall be required.

3. Taper length (L) and channelizing device spacing shall be:

Taper Length (L)				
Speed Limit (mph)	Lane Width (Feet)			
9	10	11	12	
25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
65	585	650	715	780
70	630	700	770	840
Minimum taper lengths for Limited Access highways shall be 1000 feet.				
Shoulder Taper = ½ L Minimum				

Channelizing Device Spacing		
Location	Speed Limit (mph)	
	0 - 35	36 +
Transition Spacing	20'	40'
Travelway Spacing	40'	80'

On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.

Guidance:

4. If room permits, a shadow vehicle with at least one amber[1] rotating, oscillating, or high intensity flashing[1] light should be parked 80'-120' in advance of the first work crew.

Standard:

5. If the posted speed limit is 45 mph or greater, the shadow vehicle shall have a truck-mounted attenuator.

6. For emergency situations (any non-planned operation) of 30 minutes or less duration, two rotating amber lights or high intensity amber flashing or oscillating[1] lights mounted on the vehicle and visible for 360° shall be required in addition to the channelizing devices shown around the vehicle. Also, vehicle hazard warning signals shall be used.

Guidance:

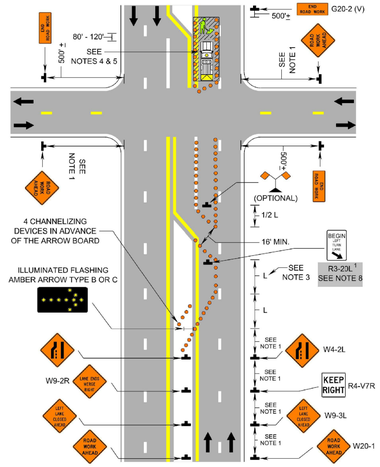
7. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.

Standard:

8. If the left turn lane is closed a NO LEFT TURN (Symbol) (R3-2) shall be used.[1]

1: Revision 1 – 4/1/2015

Lane Closure Operation - Far Side of an Intersection
(Figure TTC-27.1)



1: Revision 1 – 4/1/2015

Typical Traffic Control
Turn Lane Closure Operation
(Figure TTC-29.1)
NOTES

Guidance:

1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, 500'-800' where the posted speed limit is greater than 45 mph.

Standard:

2. On divided highways having a median wider than 8', right and left sign assemblies shall be required.

3. To prevent accidental intrusion into the work area, channelizing device spacing shall not exceed 20' on centers.

Option:

4. This layout may be used for either right or left turn lane closures.

5. For a high volume of turning movements, additional traffic control devices, such as signs (graphic NO LEFT TURN (R3-2) or LEFT LANE MUST TURN LEFT (R3-7L)), channelizing devices and vehicles may be used

Standard:

6. Taper Length (L) shall be:

Speed Limit (mph)	Lane Width (Feet)			
	9	10	11	12
≤25	95	105	115	125
30	135	150	165	180
35	185	205	225	245
40	240	270	295	320
45	405	450	495	540
50	450	500	550	600
55	495	550	605	660
60	540	600	660	720
Shoulder Taper = ½ L Minimum				

7. Buffer Space Length shall be:

Posted Speed Limit (mph)	Distance (Feet)[1]
≤20	115 – 120
25	155 – 165
30	200 – 210
35	250 – 260
40	305 – 325
45	360 – 380
50	425 – 445
55	500 – 530
60	570 – 600
65	645 – 675
70	730 – 760

Guidance:

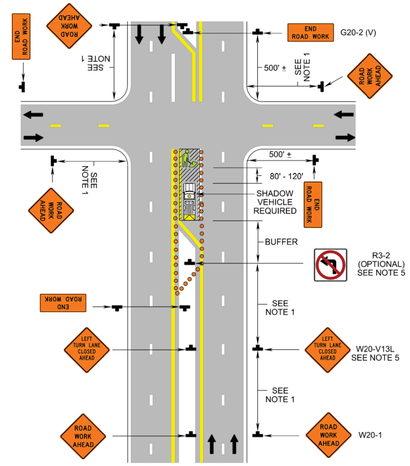
8. If the work space extends across a crosswalk, the crosswalk should be closed using the information and devices shown in Figure TTC-36.

Support:

9. Turns can be prohibited as required by vehicular traffic conditions. Unless the streets are wide, it might be physically impossible to make certain turns, especially for large vehicles.

1: Revision 1 – 4/1/2015

Turn Lane Closure Operation
(Figure TTC-29.1)



Typical Traffic Control
Sidewalk Closure and Bypass Sidewalk Operation
(Figure TTC-35.0)
NOTES

Standard:

1. When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.

Guidance:

2. Where high speeds are anticipated, a temporary traffic barrier and, if necessary, a crash cushion should be used to separate the temporary sidewalks from vehicular traffic.

3. Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.

4. Temporary markings should be considered for operations exceeding three days in duration.

Option:

5. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.

6. For nighttime closures, Type A Flashing warning lights may be used on barricades that support signs and close sidewalks.

7. Signs, such as KEEP RIGHT (R4-V7R) and KEEP LEFT (R4-V7L), may be placed along a temporary sidewalk to guide or direct pedestrians.

Standard:

8. All sidewalk closures shall be closed with Type 3 Barricades.

Sidewalk Closure and Bypass Sidewalk Operation
(Figure TTC-35.0)

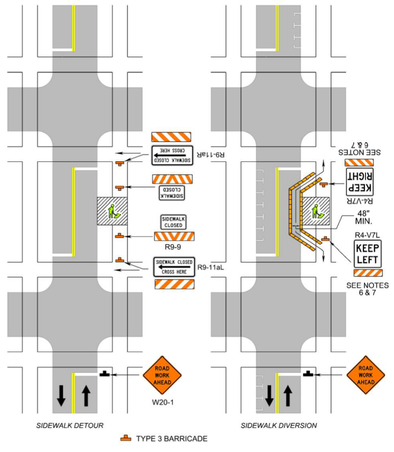
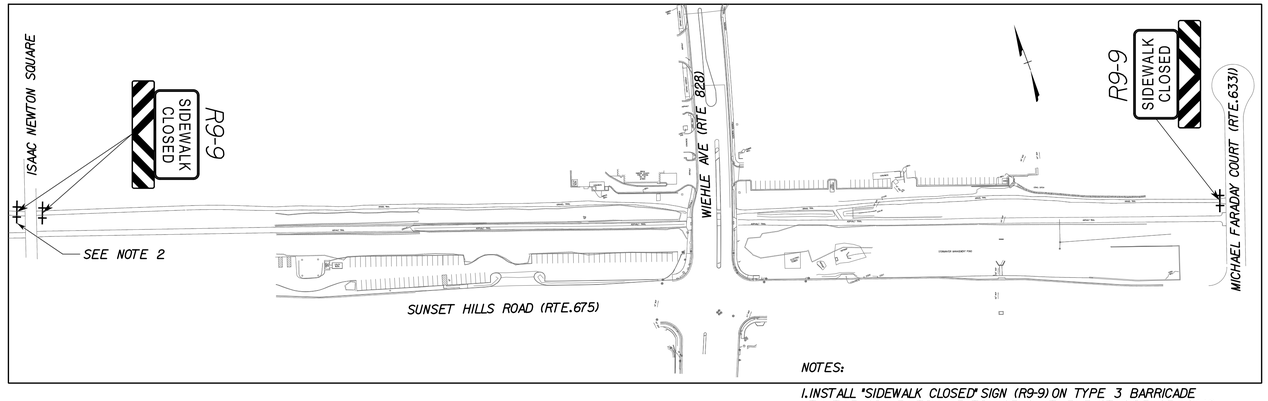


FIGURE I



NOTES:

1. INSTALL "SIDEWALK CLOSED" SIGN (R9-9) ON TYPE 3 BARRICADE AT THE GRAVEL TRAIL ENTRANCE ON THE EAST SIDE OF ISAAC NEWTON SQUARE AND THE EAST SIDE OF MICHAEL FARADAY COURT AS SHOWN ON PLAN.

2. ADDITIONAL "SIDEWALK CLOSED" SIGN (R9-9) TO BE INSTALLED AT THE EB GRAVEL TRAIL ENTRANCE AT 11480 SUNSET HILLS ROAD TO PREVENT UNSAFE PEDESTRIAN CROSSINGS AT ISAAC NEWTON SQUARE.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

Whitman, Requardt & Associates, LLP

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
SEQUENCE OF CONSTRUCTION

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
NTS	DRAFTED: WRA	1H(2)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

Typical Traffic Control
Crosswalk Closure and Pedestrian Detour Operation
(Figure TTC-36.1)
NOTES

Standard:

1. **When crosswalks or other pedestrian facilities are closed or relocated, temporary facilities shall be detectable and shall include accessibility features consistent with the features present in the existing pedestrian facility.**
2. **Curb parking shall be prohibited for at least 50 feet in advance of the midblock crosswalk.**

Guidance:

3. *Audible information devices should be considered where midblock closings and changed crosswalk areas cause inadequate communication to be provided to pedestrians who have visual disabilities.*
4. *Pedestrian traffic signal displays controlling closed crosswalks should be covered or deactivated.*
5. *Temporary markings should be considered for operations exceeding three days in duration.*

Option:

6. Only the TTC devices related to pedestrians are shown. Other devices, such as lane closure signing or ROAD NARROWS (W5-1) signs, may be used to control vehicular traffic.
7. For nighttime closures, Type A Flashing warning lights may be used on barricades supporting signs and closing sidewalks.
8. In order to maintain the systematic use of the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs in a jurisdiction, the fluorescent yellow-green background for pedestrian, bicycle, and school warning signs may be used in TTC zones.

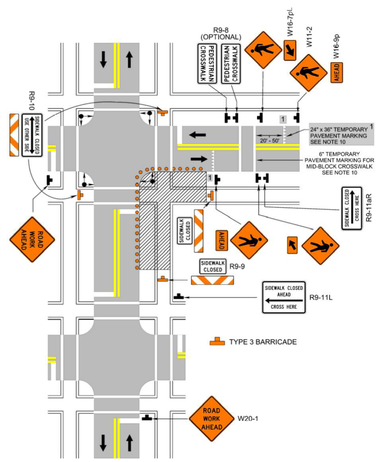
Standard:

9. **All sidewalk closures shall be closed with Type 3 Barricades.**

Support:

10. Refer to Sections 3B-16 through 3B-18 of the 2009 MUTCD and the Virginia Supplement to the MUTCD for crosswalk lines, yield lines and other related TTC devices that may be used to control vehicular traffic at midblock crosswalks.

Crosswalk Closure and Pedestrian Detour Operation
(Figure TTC-36.1)



Typical Traffic Control
Signing for Project Limits
(Figure TTC-53.0)
NOTES

Support:

1. This layout depicts signing requirements for notifying motorist when they are entering and exiting a potential construction/maintenance area with a duration equal to or greater than 60 days.

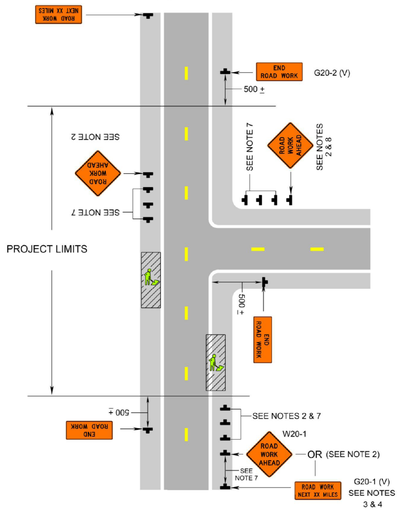
Standard:

2. **The ROAD WORK AHEAD (W20-1) sign or the ROAD WORK NEXT XX MILES (G20-1 (V)) sign shall be placed far enough in advance of the project limits so that other warning signs in a series may be adequately placed prior to the condition they are warning about.**
3. **The ROAD WORK NEXT XX MILES sign shall be used for projects with activity areas greater than 2 miles in length, or when multiple work activities (such as pavement patching, guardrail installations, shoulder restoration, etc.) occur along a highway.**
4. **The distance displayed on the ROAD WORK NEXT XX MILES sign shall be stated to the nearest whole mile from the point of installation to the END ROAD WORK (G20-2 (V)) sign.**
5. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**

Guidance:

6. *For projects with activity areas 2 miles or less in length, the ROAD WORK AHEAD sign should be the first sign motorist encounter.*
7. *Sign spacing should be 1300'-1500' for Limited Access highways. For all other roadways, the sign spacing should be 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limit is 45 mph or less.*
8. *All connections within the project limits should be identified with signs indicating to motorist they are entering or exiting a potential construction/maintenance area.*

Signing for Project Limits
(Figure TTC-53.0)



Typical Traffic Control
Disruption Operation on a Multi-Lane Roadway
(Figure TTC-50.0)
NOTES

Support:

1. Conditions represented are a planned closure not exceeding 20 minutes during the daytime.

Guidance:

2. *On Limited Access highways, the sign spacing distance and flagger distance should be 1300'- 1500'. For all other roadways, the distance between the advance warning signs and between the flagger should be 500'-800' where the posted speed limit is 45 mph or less.*
3. *Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. For Limited Access highways a minimum of 1000' is desired.*
4. *The buffer space length should be as shown in Table 6H-3 on Page 6H-5 for the posted speed limit.*

Standard:

5. **On divided highways having a median wider than 8', right and left sign assemblies shall be required.**
6. **Flagging stations shall be located far enough in advance of the operation to permit approaching traffic to reduce speed and/or stop before passing into the operation.**
7. **All flaggers shall be state certified and have their certification card in their possession when performing flagging duties and shall follow the procedures noted in Sections 6E.04 and 6E.05.**
8. **A minimum of four (4) drum channelizing devices shall be placed on the shoulder in advance of the PCMS in a taper for delineation (see Figure 6F-6).**

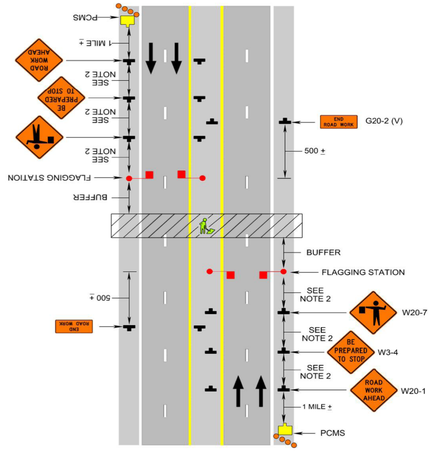
Guidance:

9. *A Portable Changeable Message Sign (PCMS) should be used on Limited Access highways and placed a minimum of one mile in advance of the warning signs warning of the operation ahead (UTILITY WORK AHEAD) and advising of the action required (BE PREPARED TO STOP).*
10. *Disruptions to traffic should be coordinated with all entities involved in advance and performed during off-peak hours to minimize the impact on the motoring public. On Limited Access highways, State Police should assist with the stoppage of traffic.*

Option:

11. A uniformed law enforcement officer may be used for this application in place of the flagger.
12. The ROAD WORK AHEAD (W20-1) sign may be replaced with other appropriate signs such as UTILITY WORK AHEAD (W21-7).

Disruption Operation on a Multi-Lane Roadway
(Figure TTC-50.0)



Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS				
△#	DESCRIPTION	BY	APPROVED	DATE
APPROVED BY THE TRANSPORTATION DESIGN DIVISION				

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
SEQUENCE OF CONSTRUCTION

PROJECT NO: 1400102-2013

SCALE NTS | DESIGNED: NDD | DRAFTED: WRA | CHECKED: RBH | SHEET 1H(3)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

TEMPORARY CONSTRUCTION PLAN
PHASE 1

PHASE 1 CONSTRUCTION ACTIVITIES:

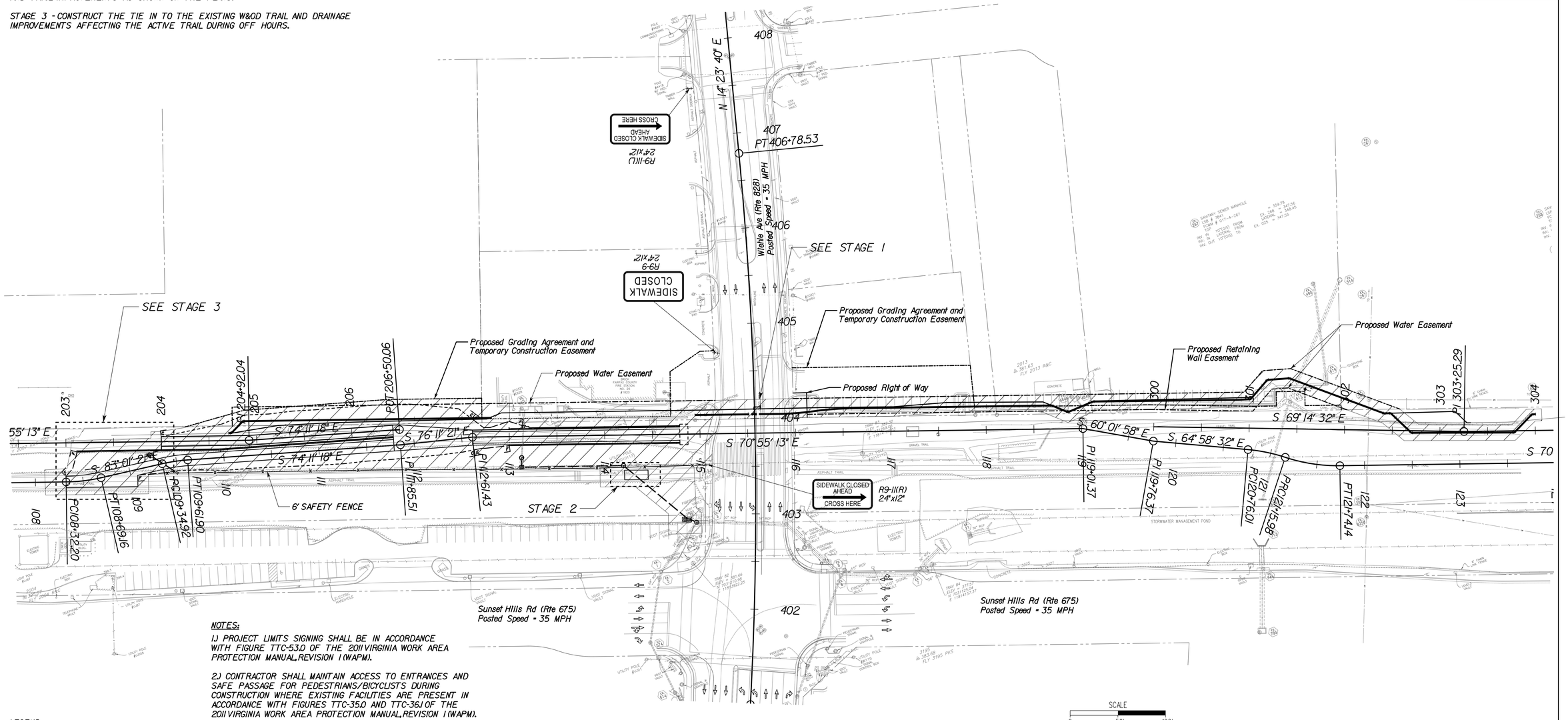
STAGE 1 - CONSTRUCT OPEN-CUT WATER MAIN RELOCATION ACROSS WIEHLE AVENUE. CONTRACTOR SHALL MAINTAIN A MINIMUM OF AT LEAST 1 LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES, UTILIZING TTC-27J, 29J, AND 36J.

STAGE 2 - CONTRACTOR SHALL CLOSE THE GRAVEL TRAIL BETWEEN ISAAC NEWTON SQUARE AND MICHAEL FARADAY COURT AND INSTALL PEDESTRIAN DETOUR SIGNING PER FIGURE 1 ON SHEET 1H(2). CONSTRUCT BRIDGE ABUTMENTS, MSE WALLS, AND TRAIL IMPROVEMENTS AS SHOWN ON THE PLANS.

STAGE 3 - CONSTRUCT THE TIE IN TO THE EXISTING W&OD TRAIL AND DRAINAGE IMPROVEMENTS AFFECTING THE ACTIVE TRAIL DURING OFF HOURS.

COMMONWEALTH OF VIRGINIA
REGINA BRIGHT HERR
Lic. No. 028548
PROFESSIONAL ENGINEER

Regina B Herr
2018.05.29 13:30:24 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER



SCALE
0 50' 100'

NOTES:

1) PROJECT LIMITS SIGNING SHALL BE IN ACCORDANCE WITH FIGURE TTC-53.0 OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

2) CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT IN ACCORDANCE WITH FIGURES TTC-35.0 AND TTC-36J OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

3) CLOSE GRAVEL TRAIL BETWEEN ISAAC NEWTON SQUARE AND WIEHLE AVENUE AND MICHAEL FARADAY COURT AND WIEHLE AVENUE.

4) PHASE 1 STAGE 2 TO BE COMPLETED OFF HOURS. 9:00 PM - 5:00 AM MONDAY THRU THURSDAY.

5) FOR NIGHTTIME CLOSURE, TYPE A FLASHING WARNING LIGHTS MAY BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.

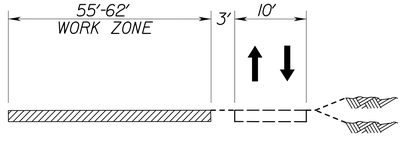
6) CONTRACTOR SHALL COORDINATE ROAD CONSTRUCTION ACTIVITIES WITH FAIRFAX COUNTY FIRE STATION 25.

7) CONTRACTOR MAY PERFORM PHASE 1 AND PHASE 2 CONCURRENTLY AS LONG AS ONE SIDEWALK ALONG WIEHLE AVENUE REMAINS OPEN TO PEDESTRIAN USE AT ALL TIMES.

8) W&OD MAINLINE ASPHALT TRAIL SHALL REMAIN OPEN AT ALL TIMES.

LEGEND

- WORK ZONE AREA
- GROUP 2 CHANNELIZING DEVICE
- TYPE 3 BARRICADE
- ARROW BOARD ON TRAILER
- SIGN
- EXISTING DIRECTION OF TRAVEL
- TEMPORARY DIRECTION OF TRAVEL
- WORK VEHICLE



W&OD TRAIL
SPEED LIMIT = 18 MPH
STA. 108+32.20 TO STA. 123+14.67

WRA
Whitman, Requardt & Associates, LLP

EMERGENCY POLICE - FIRE - RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE
	APPROVED BY THE TRANSPORTATION DESIGN DIVISION			

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TRANSPORTATION MANAGEMENT PLAN

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
1"=50'	DRAFTED: WRA	1H(4)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

TEMPORARY CONSTRUCTION PLAN
PHASE 2

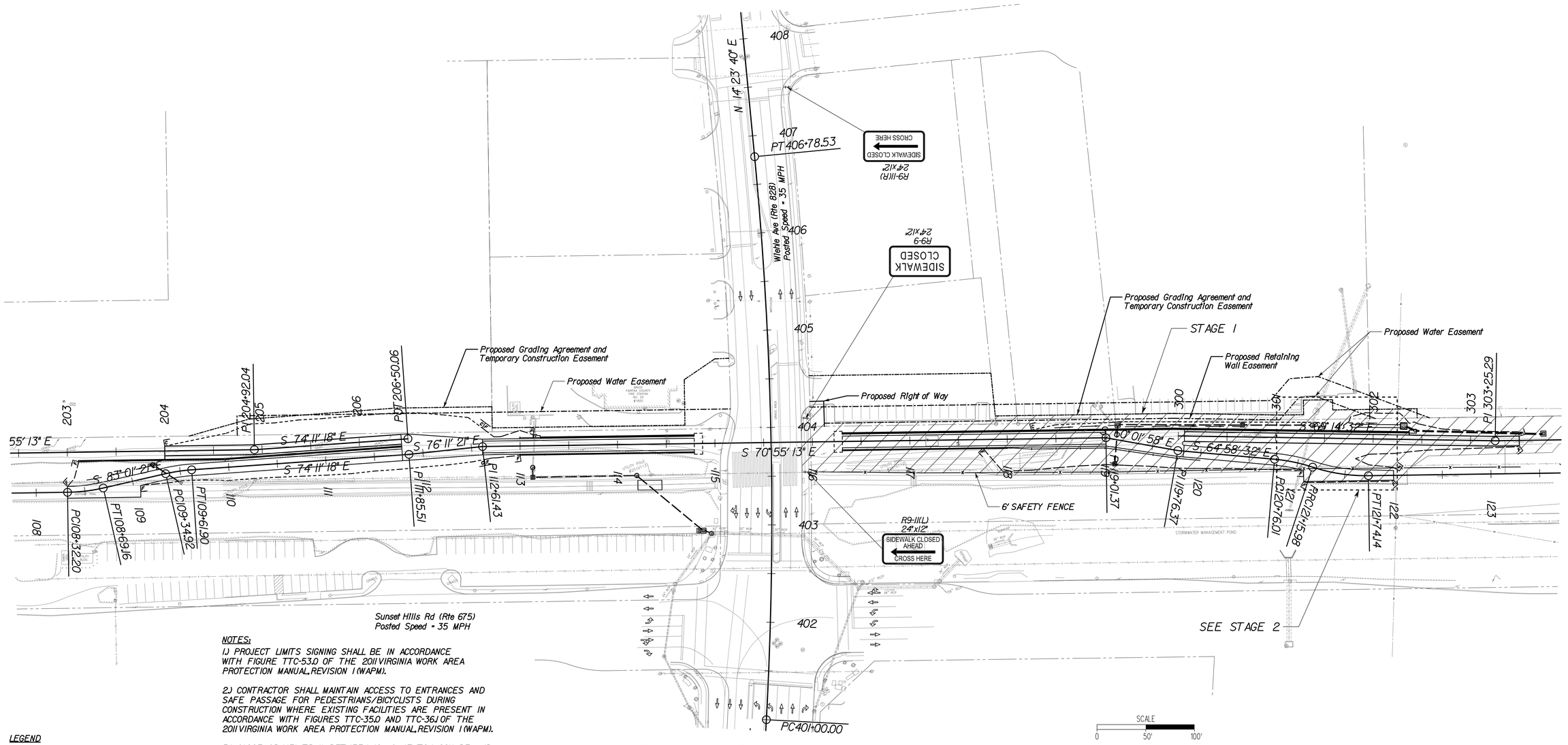
COMMONWEALTH OF VIRGINIA
REGINA BRIGHT HERR
Lic. No. 028548
PROFESSIONAL ENGINEER

Regina B Herr
2018.05.29 13:31:05 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

PHASE 2 CONSTRUCTION ACTIVITIES:

STAGE 1 - CONSTRUCT THE DRAINAGE IMPROVEMENTS AS SHOWN ON THE PLANS.
BUILD BRIDGE ABUTMENTS, MSE WALLS, AND TRAIL IMPROVEMENTS AS SHOWN ON THE PLANS.

STAGE 2 - CONSTRUCT THE TIE IN TO THE EXISTING W&OD TRAIL DURING OFF HOURS.



NOTES:

1.) PROJECT LIMITS SIGNING SHALL BE IN ACCORDANCE WITH FIGURE TTC-53.0 OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

2.) CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT IN ACCORDANCE WITH FIGURES TTC-35.0 AND TTC-36.1 OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

3.) CLOSE GRAVEL TRAIL BETWEEN ISAAC NEWTON SQUARE AND WIEHLE AVENUE AND MICHAEL FARADAY COURT AND WIEHLE AVENUE.

4.) PHASE 2 STAGE 2 TO BE COMPLETED OFF HOURS. 9:00 PM - 5:00 AM MONDAY THRU THURSDAY.

5.) FOR NIGHTTIME CLOSURE, TYPE A FLASHING WARNING LIGHTS MAY BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.

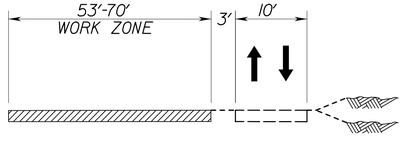
6.) CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH FAIRFAX COUNTY FIRE STATION 25.

7.) CONTRACTOR MAY PERFORM PHASE 1 AND PHASE 2 CONCURRENTLY AS LONG AS ONE SIDEWALK ALONG WIEHLE AVENUE REMAINS OPEN TO PEDESTRIAN USE AT ALL TIMES.

8.) W&OD MAINLINE ASPHALT TRAIL SHALL REMAIN OPEN AT ALL TIMES.

LEGEND

- WORK ZONE AREA
- GROUP 2 CHANNELIZING DEVICE
- TYPE 3 BARRICADE
- ARROW BOARD ON TRAILER
- SIGN
- EXISTING DIRECTION OF TRAVEL
- TEMPORARY DIRECTION OF TRAVEL
- WORK VEHICLE



W&OD TRAIL
SPEED LIMIT = 18 MPH
STA. 108+32.20 TO STA. 123+14.67

SCALE
0 50' 100'

Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TRANSPORTATION MANAGEMENT PLAN

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE 1"=50'
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET 1H(5)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP _ (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC., (703) 361-6005, DECEMBER 23, 2014

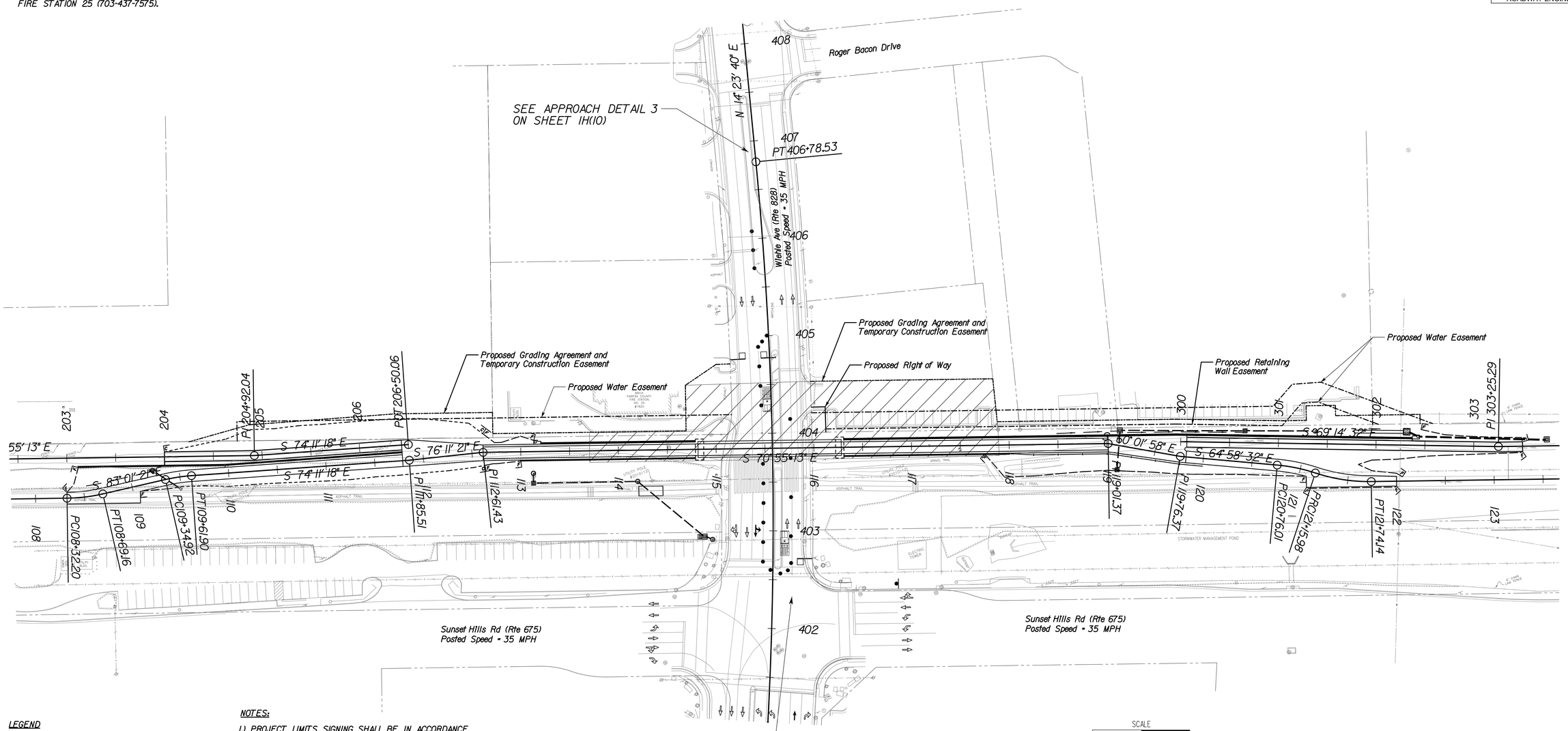
TEMPORARY CONSTRUCTION PLAN
PHASE 3

PHASE 3 CONSTRUCTION ACTIVITIES:

THE CONTRACTOR SHALL SET UP A NIGHTTIME CLOSURE OF WHIELE AVENUE BETWEEN SUNSET HILLS AND ROGER BACON DRIVE IN ACCORDANCE WITH FIGURE TTC-50.0 OF THE VA WAPM. INSTALL PREFRABRICATED BRIDGE. THE CONTRACTOR SHALL COORDINATE THE ROAD CLOSURE WITH FAIRFAX COUNTY FIRE STATION 25 (703-437-7575).

COMMONWEALTH OF VIRGINIA
REGINA BRIGHT HERR
Lic. No. 028548
PROFESSIONAL ENGINEER

Regina B Herr
2018.05.29 13:31:44 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER



LEGEND

- WORK ZONE AREA
- GROUP 2 CHANNELIZING DEVICE
- FLAGGER SERVICE
- TYPE 3 BARRICADE
- ARROW BOARD ON TRAILER
- SIGN
- EXISTING DIRECTION OF TRAVEL
- TEMPORARY DIRECTION OF TRAVEL
- WORK VEHICLE

NOTES:

1) PROJECT LIMITS SIGNING SHALL BE IN ACCORDANCE WITH FIGURE TTC-53.0 OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

2) CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT IN ACCORDANCE WITH FIGURES TTC-35.0 AND TTC-36J OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

3) DISRUPTION OPERATION ON A MULTI-LANE ROADWAY SHALL BE IN ACCORDANCE WITH TTC-50.0 AND PERFORMED DURING OFF HOURS.

4) CONTRACTOR SHALL UTILIZE POLICE ASSISTANCE FOR CLOSING WIEHLE AVENUE. CONTRACTOR SHALL REQUEST POLICE OFFICER PLACE VEHICLE INFRONT OF ROAD CLOSURE SIGNS ON THE NORTH AND SOUTH SIDE OF THE WORK ZONE.

5) CONTRACTOR SHALL COORDINATE ROAD CLOSURE WITH FAIRFAX COUNTY FIRE STATION 25.

6) THE CONTRACTOR WILL HAVE THE UNENCUMBERED USE OF THE PARKING AREA ALONG THE SOUTH SIDE OF PARCEL #0174-15-05-003A (PIZZA HUT), DURING THE BRIDGE ASSEMBLY ACTIVITY. ACCESS TO THE PIZZA HUT ENTRANCE SHALL BE MAINTAINED AT ALL TIMES DURING BUSINESS HOURS. THE REDUCTION IN PARKING FOR THIS PROPERTY SHALL NOT EXTEND FOR A PERIOD GREATER THAN 21 CALENDAR DAYS OR UPON INSTALLATION OF THE COMPLETED BRIDGE, WHICHEVER OCCURS FIRST.

WRA
Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TRANSPORTATION MANAGEMENT PLAN

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	SHEET
1"=50'		1H(6)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

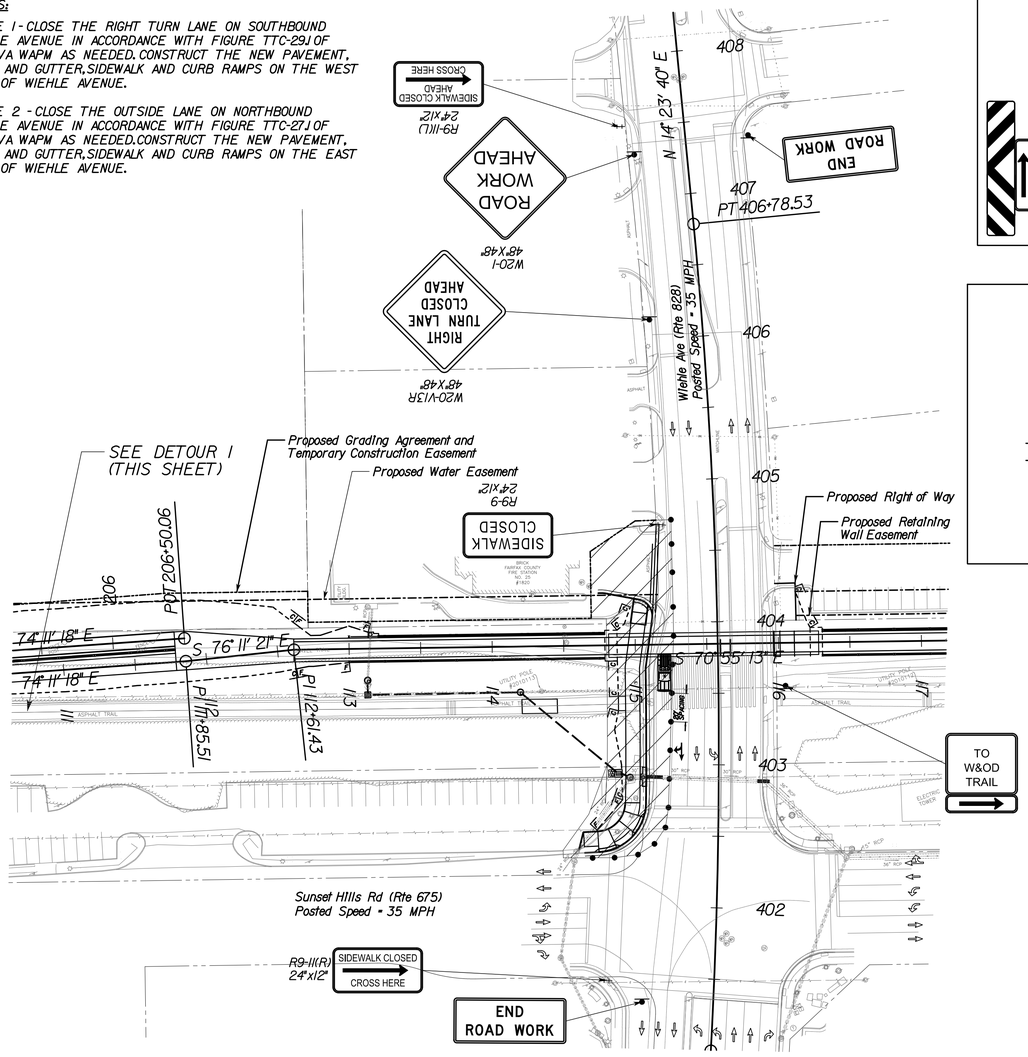
TEMPORARY CONSTRUCTION PLAN
PHASE 4

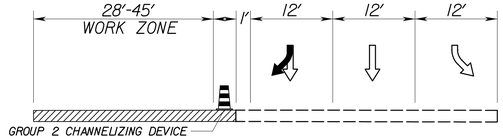
Whitman, Requardt & Associates, LLP

COMMONWEALTH OF VIRGINIA
REGINA BRIGHT HERR
Lic. No. 028548
PROFESSIONAL ENGINEER

Regina B Herr
2018.05.29 13:32:16 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

STAGE 1





STAGE 1

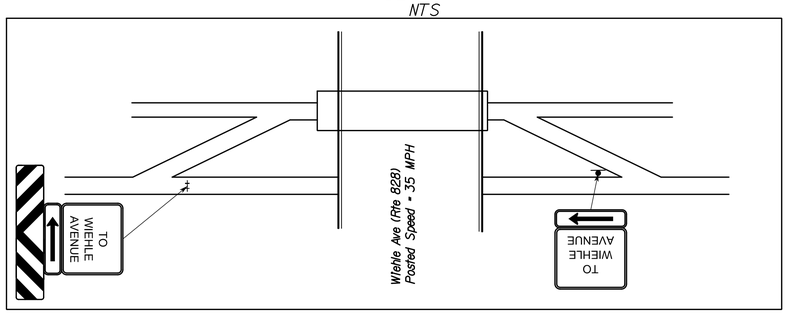
UTILIZING TTC 29J - TURN LANE CLOSURE

SOUTHBOUND WHIELE AVENUE

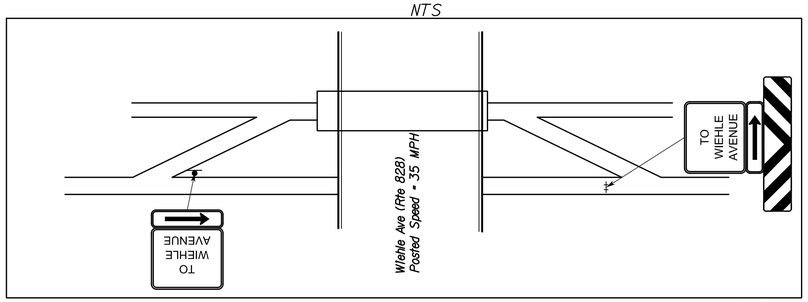
SPEED LIMIT = 35 MPH

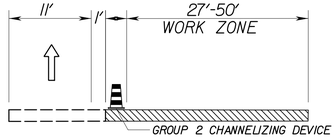
STA. 402+33.31 TO STA. 404+19.78

DETOUR 1
NTS



DETOUR 2
NTS





STAGE 2

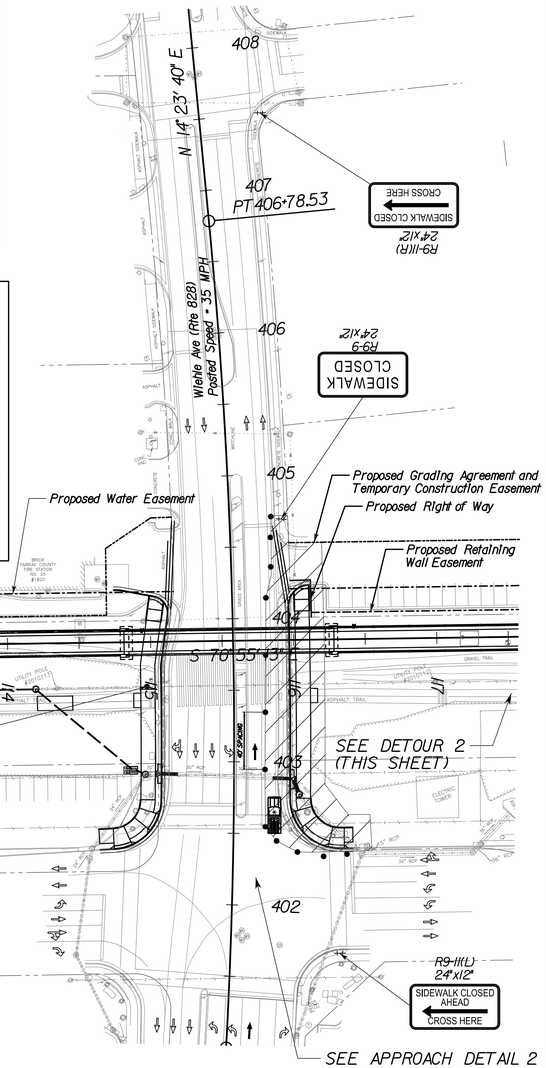
UTILIZING TTC 27J - LANE CLOSURE ON THE FAR SIDE OF AN INTERSECTION

NORTHBOUND WHIELE AVENUE

SPEED LIMIT = 35 MPH

STA. 402+34.42 TO STA. 404+25.50

STAGE 2



SCALE
0 50' 100'

SEE APPROACH DETAIL 2 ON SHEET 1H(9)

NOTES:

STAGE 1 - CLOSE THE RIGHT TURN LANE ON SOUTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-29J OF THE VA WAPM AS NEEDED. CONSTRUCT THE NEW PAVEMENT, CURB AND GUTTER, SIDEWALK AND CURB RAMPS ON THE WEST SIDE OF WIEHLE AVENUE.

STAGE 2 - CLOSE THE OUTSIDE LANE ON NORTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-27J OF THE VA WAPM AS NEEDED. CONSTRUCT THE NEW PAVEMENT, CURB AND GUTTER, SIDEWALK AND CURB RAMPS ON THE EAST SIDE OF WIEHLE AVENUE.

LEGEND

- WORK ZONE AREA
- GROUP 2 CHANNELIZING DEVICE
- TYPE 3 BARRICADE
- ARROW BOARD ON TRAILER
- SIGN
- EXISTING DIRECTION OF TRAVEL
- TEMPORARY DIRECTION OF TRAVEL
- WORK VEHICLE

NOTES:

1) PROJECT LIMITS SIGNING SHALL BE IN ACCORDANCE WITH FIGURE TTC-53.0 OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

2) CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT IN ACCORDANCE WITH FIGURES TTC-35.0 AND TTC-36J OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

3) CONTRACTOR SHALL CLOSE THE RIGHT TURN LANE ON SOUTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-29J OF THE VA WAPM.

4) CONTRACTOR SHALL CLOSE THE OUTSIDE LANE ON NORTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-27J OF THE VA WAPM

5) FOR NIGHTTIME CLOSURE, TYPE A FLASHING WARNING LIGHTS MAY BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.

6) CONTRACTOR SHALL COORDINATE ROAD CONSTRUCTION ACTIVITIES WITH FAIRFAX COUNTY FIRE STATION 25.

7) W&OD MAINLINE ASPHALT TRAIL SHALL REMAIN OPEN AT ALL TIMES.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS				
△#	DESCRIPTION	BY	APPROVED	DATE
APPROVED BY THE TRANSPORTATION DESIGN DIVISION				

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TRANSPORTATION MANAGEMENT PLAN

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
1"=50'	DRAFTED: WRA	1H(7)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP _ (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

Whitman, Requardt & Associates, LLP

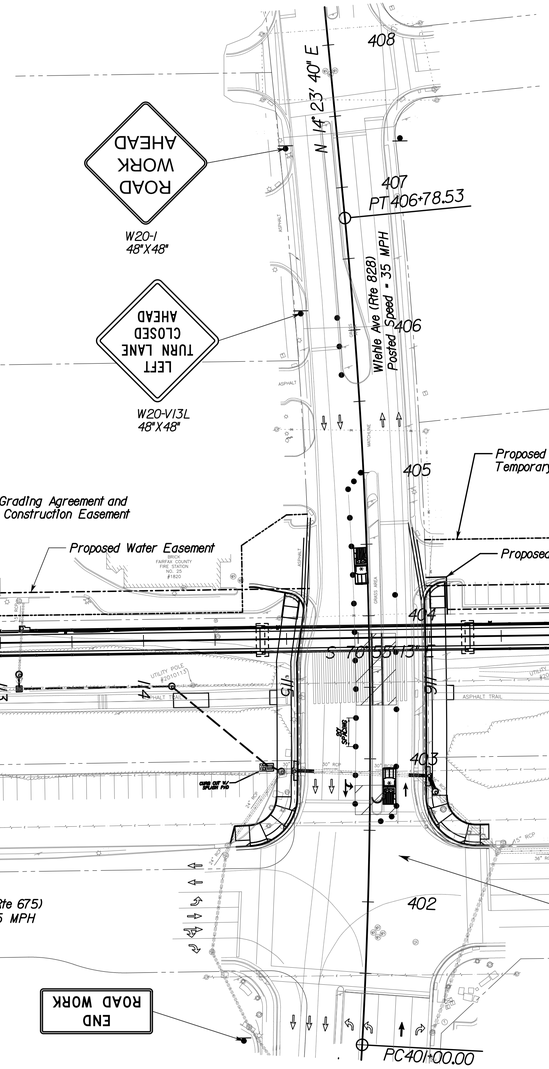
TEMPORARY CONSTRUCTION PLAN
PHASE 4
STAGE 3

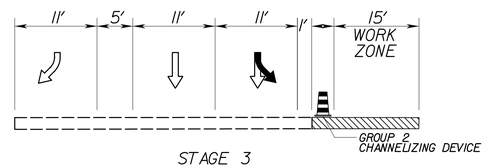
COMMONWEALTH OF VIRGINIA
REGINA BRIGHT HERR
Lic. No. 028548
PROFESSIONAL ENGINEER

Regina B Herr
2018.05.29 13:32:45 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

NOTES:

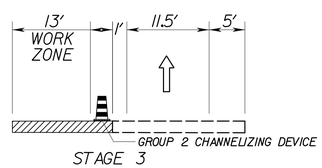
STAGE 3 - CLOSE THE INSIDE LANE ON NORTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-27J OF THE VA WAPM. CLOSE THE LEFT TURN LANE ON SOUTHBOUTH WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-29J OF THE VA WAPM. CONSTRUCT THE NEW CURB AS SHOWN ON THE PLANS. INSTALL FINAL ROADWAY MARKINGS.





STAGE 3

UTILIZING TTC 29J - TURN LANE CLOUSRE
SOUTHBOUND WHIELE AVENUE
SPEED LIMIT = 35 MPH
STA. 402+33.31 TO STA. 404+19.78



STAGE 3

UTILIZING TTC 27J - LANE CLOUSRE ON THE FAR SIDE OF AN INTERSECTION
NORTHBOUND WHIELE AVENUE
SPEED LIMIT = 35 MPH
STA. 402+34.42 TO STA. 404+25.50

NOTES:

1J PROJECT LIMITS SIGNING SHALL BE IN ACCORDANCE WITH FIGURE TTC-53.0 OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

2J CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES AND SAFE PASSAGE FOR PEDESTRIANS/BICYCLISTS DURING CONSTRUCTION WHERE EXISTING FACILITIES ARE PRESENT IN ACCORDANCE WITH FIGURES TTC-35.0 AND TTC-36J OF THE 2011 VIRGINIA WORK AREA PROTECTION MANUAL, REVISION 1 (WAPM).

3J CONTRACTOR SHALL CLOSE THE INSIDE LANE ON NORTHBOUND WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-27J OF THE VA WAPM AND CLOSE THE LEFT TURN LANE ON SOUTHBOUTH WIEHLE AVENUE IN ACCORDANCE WITH FIGURE TTC-29J OF THE VA WAPM.

4J FOR NIGHTTIME CLOSURE, TYPE A FLASHING WARNING LIGHTS MAY BE USED ON BARRICADES SUPPORTING SIGNS AND CLOSING SIDEWALKS.

5J CONTRACTOR SHALL COORDINATE ROAD CONSTRUCTION ACTIVITIES WITH FAIRFAX COUNTY FIRE STATION 25.

6J W&OD MAINLINE ASPHALT TRAIL SHALL REMAIN OPEN AT ALL TIMES.

LEGEND

- WORK ZONE AREA
- GROUP 2 CHANNELIZING DEVICE
- TYPE 3 BARRICADE
- ARROW BOARD ON TRAILER
- SIGN
- EXISTING DIRECTION OF TRAVEL
- TEMPORARY DIRECTION OF TRAVEL
- WORK VEHICLE

SCALE
0 50' 100'

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS				
△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TRANSPORTATION MANAGEMENT PLAN

PROJECT NO: 1400102-2013

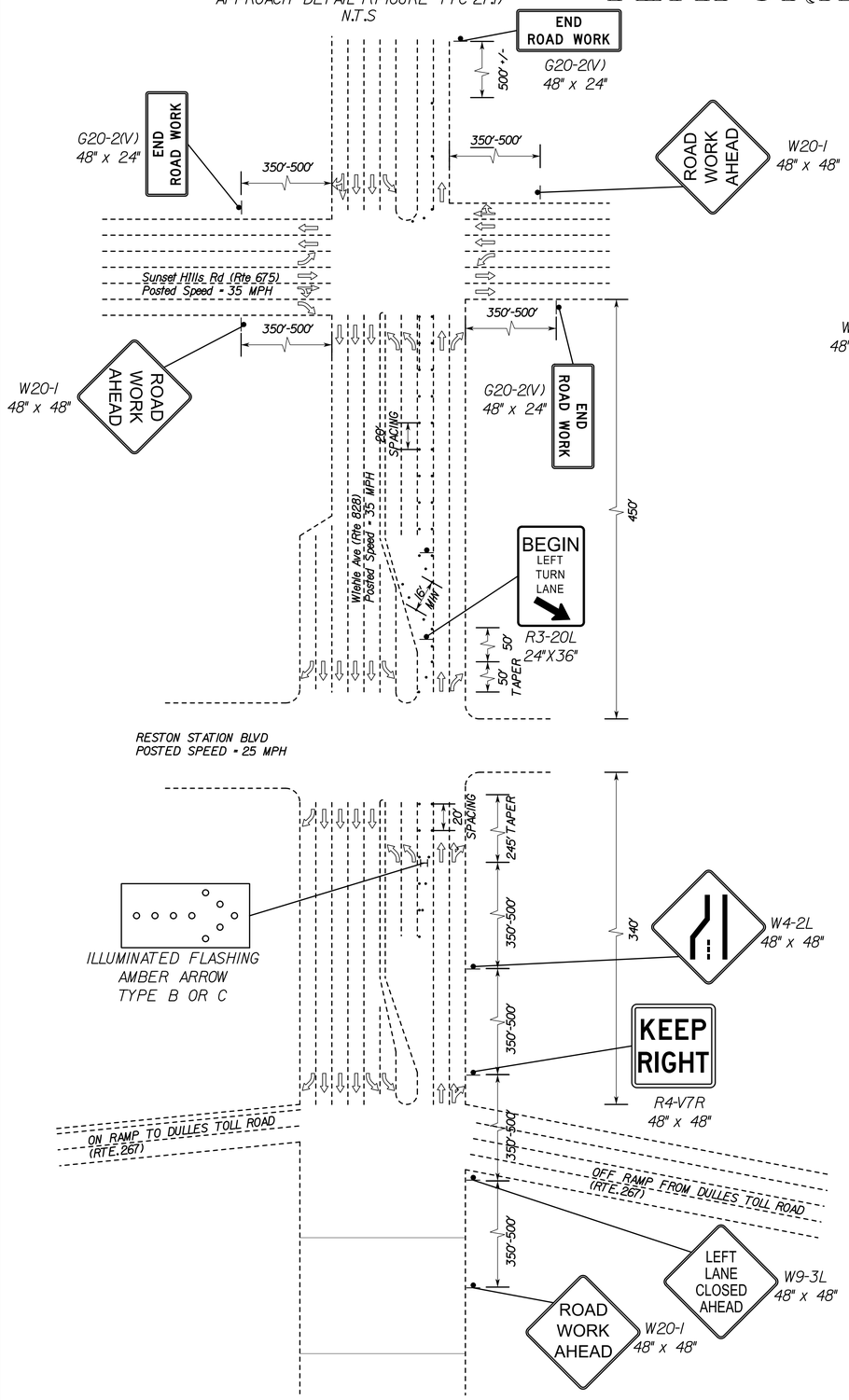
SCALE	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	SHEET
1"=50'		1H(8)

FUND # 500-C5000

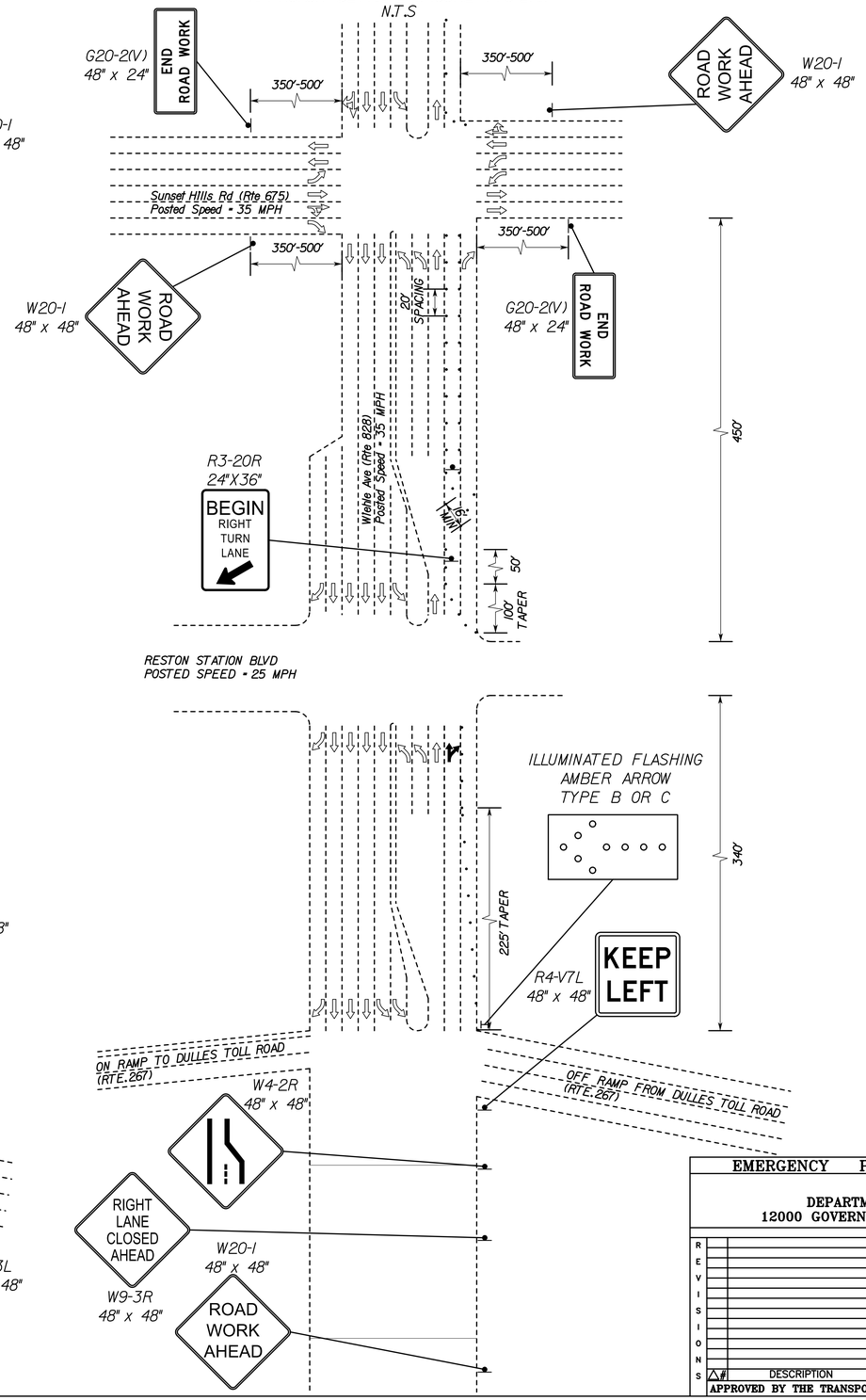
PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

TEMPORARY CONSTRUCTION PLAN

APPROACH DETAIL 1 (FIGURE TTC-27.1)
N.T.S



APPROACH DETAIL 2 (FIGURE TTC-27.1)
N.T.S



COMMONWEALTH OF VIRGINIA
REGINA BRIGHT HERR
Lic. No. 028548
PROFESSIONAL ENGINEER

Regina B Herr
2018.05.29 13:33:41 -04'00'
Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

WRA
Whitman, Requardt & Associates, LLP

LEGEND

- WORK ZONE AREA
- GROUP 2 CHANNELIZING DEVICE
- TYPE 3 BARRICADE
- ARROW BOARD ON TRAILER
- SIGN
- EXISTING DIRECTION OF TRAVEL
- TEMPORARY DIRECTION OF TRAVEL
- WORK VEHICLE

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TRANSPORTATION MANAGEMENT PLAN

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	SHEET
NTS		1H(9)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28,2014 _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC, (703) 361-6005 DECEMBER 23,2014

TEMPORARY CONSTRUCTION PLAN

APPROACH DETAIL 3 (FIGURE TTC-50.0)
N.T.S

MATCHLINE (THIS SHEET)

R03-01
24"x24"

G20-2(V)
48" x 24"
END ROAD WORK

350'-500'

150'-50'

350'-500'

350'-500'

ROAD WORK AHEAD
W20-1
48" x 48"

Sunset Hills Rd (Rte 675)
Posted Speed = 35 MPH

350'-500'

350'-500'

350'-500'

G20-2(V)
48" x 24"
END ROAD WORK

ROAD WORK AHEAD
W20-1
48" x 48"

R03-02
24"x24"

20' SPACING

500'-800'

BEGIN LEFT TURN LANE
R3-20L
24"X36"

450'

Wiehle Ave (Rte 828)
Posted Speed = 35 MPH

500' +/-

1/8 MILE

W20-07
48" x 48"

50'

50'

TAPER

RESTON STATION BLVD
POSTED SPEED = 25 MPH

20' SPACING

500'-800'

END ROAD WORK
G20-2(V)
48" x 24"

W4-2L
48" x 48"

340'

ILLUMINATED FLASHING
AMBER ARROW
TYPE B OR C

BE PREPARED TO STOP
W03-04
48" x 48"

350'-500'

KEEP RIGHT
R4-V7R
48" x 48"

ON RAMP TO DULLES TOLL ROAD
(RTE.267)

350'-500'

OFF RAMP FROM DULLES TOLL ROAD
(RTE.267)

350'-500'

LEFT LANE CLOSED AHEAD
W9-3L
48" x 48"

ROAD WORK AHEAD
W20-1
48" x 48"

+/- 1 MILE (5280 FT)

PCMS
'BE PREPARED TO STOP'

APPROACH DETAIL 3 (FIGURE TTC-50.0)
N.T.S

PCMS
"BE PREPARED TO STOP"

+/- 1 MILE (5280 FT)

ROAD WORK AHEAD
W20-1
48" x 48"

500'-800'

BE PREPARED TO STOP
W03-04
48" x 48"

500'-800'

G20-2(V)
48" x 24"
END ROAD WORK

Isaac Newton Square South

Roger Bacon Dr.

W20-07
48" x 48"

500'-800'

500' +/-

250'-260'

50'-150'

MATCHLINE (THIS SHEET)

LEGEND

- WORK ZONE AREA
- GROUP 2 CHANNELIZING DEVICE
- FLAGGER SERVICE
- TYPE 3 BARRICADE
- ARROW BOARD ON TRAILER
- SIGN
- EXISTING DIRECTION OF TRAVEL
- TEMPORARY DIRECTION OF TRAVEL
- WORK VEHICLE

COMMONWEALTH OF VIRGINIA
REGINA BRIGHT HERR
Lic. No. 028548
PROFESSIONAL ENGINEER

Regina B Herr
2018.05.29 13:34:18 -04'00'

Whitman Requardt & Associates
Fairfax, Virginia
ROADWAY ENGINEER

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REVISIONS				
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TRANSPORTATION MANAGEMENT PLAN

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
NTS	DRAFTED: WRA	1H(10)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

TYPICAL SECTIONS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

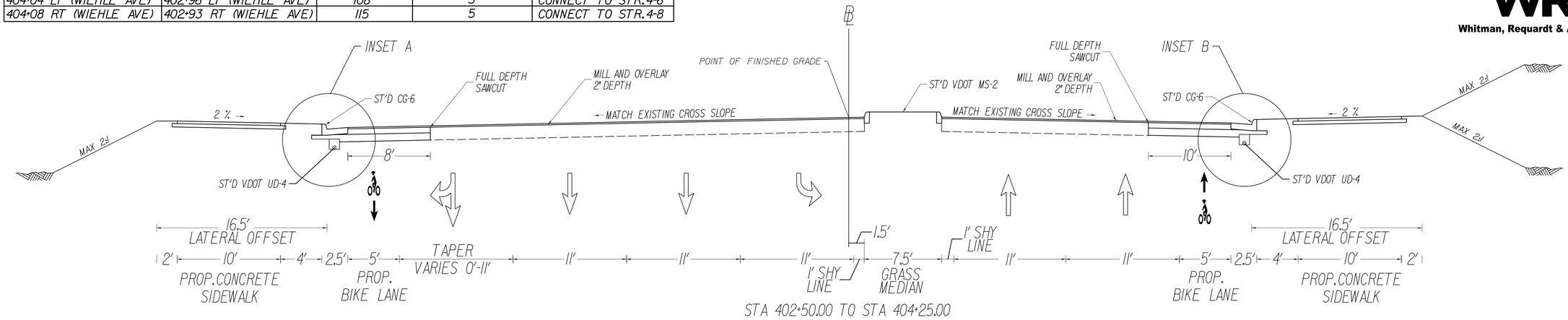
Whitman, Requardt & Associates, LLP

UNDERDRAIN SUMMARY

FROM STATION	TO STATION	ST'D.UD-4 (LF)	ST'D.UD-4 OUTLET PIPE (LF)	REMARKS
402+73 LT (WIEHLE AVE)	402+87 LT (WIEHLE AVE)	14	5	CONNECT TO STR.4-6
402+75 RT (WIEHLE AVE)	402+84 RT (WIEHLE AVE)	9	5	CONNECT TO STR.4-8
404+04 LT (WIEHLE AVE)	402+96 LT (WIEHLE AVE)	108	5	CONNECT TO STR.4-6
404+08 RT (WIEHLE AVE)	402+93 RT (WIEHLE AVE)	115	5	CONNECT TO STR.4-8

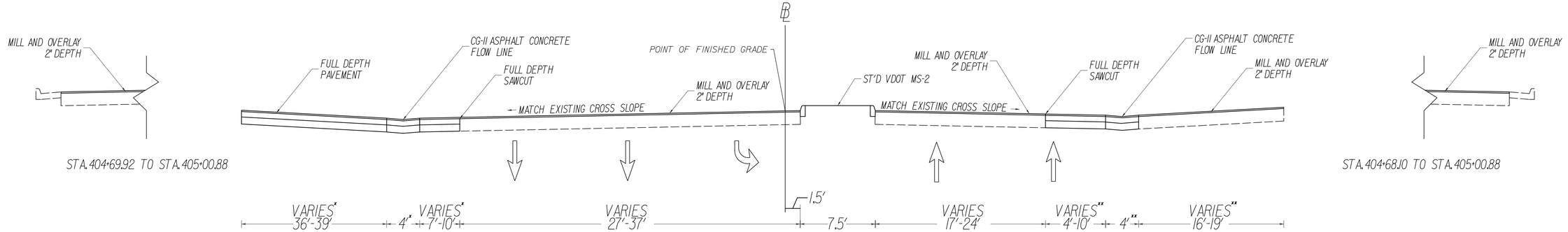
(NOT TO SCALE)

Wiehle Ave (Rte 828)



STA 402+50.00 TO STA 404+25.00

Wiehle Ave (Rte 828)



STA. 404+69.92 TO STA. 405+00.88

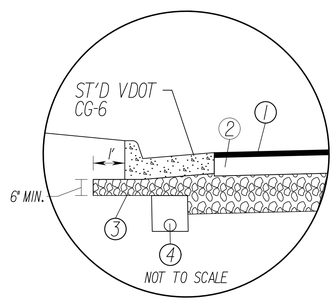
STA. 404+68.10 TO STA. 405+00.88

STA 404+25.00 TO STA 405+00.88

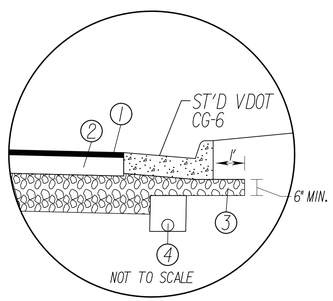
* New Pavement, CG-II, and Entrance Replacement on the left from Sta. 404+11.94 to Sta. 404+70.04

** New Pavement, CG-II, and Entrance Replacement on the right from Sta. 404+14.13 to Sta. 404+66.36

INSET A

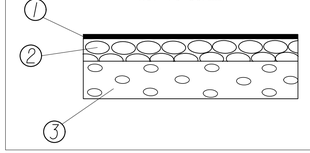


INSET B



FULL DEPTH PAVEMENT

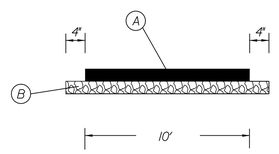
NOT TO SCALE



1. SURFACE - 2" ASPHALT CONCRETE TYPE SM-9.5D ESTIMATED AT 244 LBS/SY
2. BASE - 6.5" ASPHALT CONCRETE TYPE BM-25.0A
3. SUBBASE - 12" AGGREGATE BASE MATERIAL TYPE I SIZE 21B OR EXTEND TO THE BOTTOM OF THE EXISTING AGGREGATE BASE MATERIAL, WHICHEVER IS GREATER
4. ST'D VDOT UD-4

CONCRETE SIDEWALK

NOT TO SCALE



(A) 4" CLASS A3 CONCRETE SIDEWALK

(B) 4" AGGREGATE BASE MATERIAL I, SIZE 21B

NOTES:

1. FOR APPROXIMATE LIMITS OF FULL DEPTH PAVEMENT AND MILL AND OVERLAY, REFER TO THE PLAN SHEETS.

2. EXISTING PAVEMENT LAYERS WITHIN THE LIMITS OF SAWCUT AND THE EDGE OF PAVEMENT ARE TO BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH 2016 ROAD AND BRIDGE SPECIFICATIONS.

3. ALL PAVEMENT WIDENING SHALL BE PERFORMED IN ACCORDANCE WITH ST'D VDOT WP-2.

4. SEE SHEET 2C FOR ASPHALT TRAIL DETAIL.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TYPICAL SECTIONS

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
NTS	DRAFTED: WRA	2B
	CHECKED: RBH	

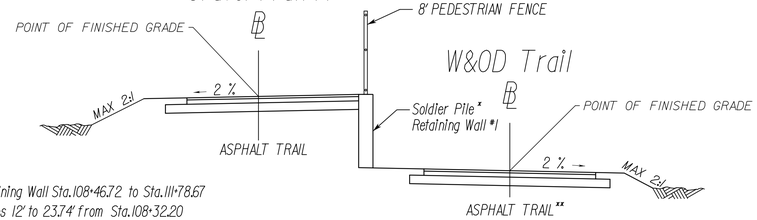
FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

TYPICAL SECTIONS

(NOT TO SCALE)

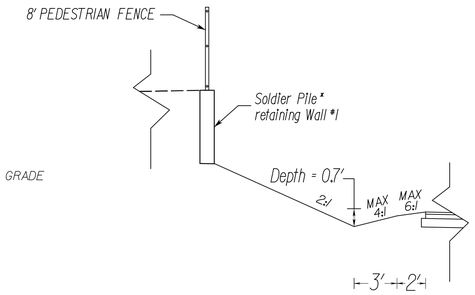
Gravel Trail A



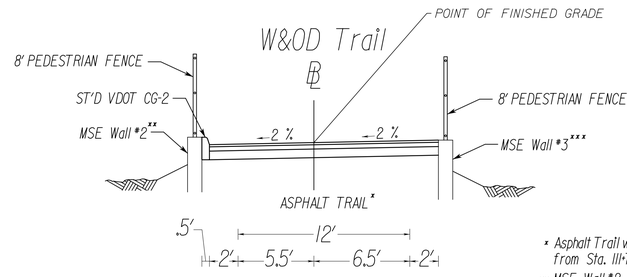
x Soldier Pile Retaining Wall Sta.108+46.72 to Sta.111+78.67
xx W&OD Trail Varies 12' to 23.74' from Sta.108+32.20 to Sta.109+07.21

STA 204+00.00 TO STA 206+50.06

STA 108+32.20 TO STA 111+85.51

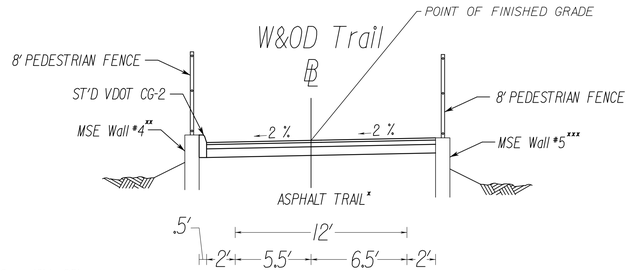


STA.108+50.00 TO STA.109+25.00



STA 111+85.51 TO STA 114+81.47

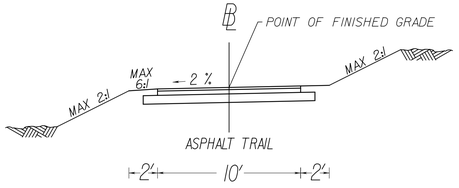
x Asphalt Trail width varies from 27' to 16' from Sta. 111+78.67 to 112+61.43
xx MSE Wall #2 Sta. 113+20.76 to Sta. 114+78.72 left. Pedestrian fence and additional 1' shoulder extends beyond MSE wall from Sta.113+00.00 to 113+20.76 left
xxx MSE Wall #3 Sta. 113+00.00 to Sta. 114+78.72 right



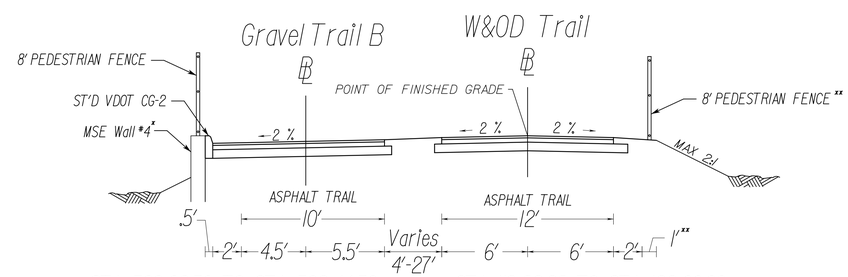
x Asphalt Trail width varies from 16' to 28' from Sta. 119+01.37 to 119+82.28
xx MSE Wall #4 Sta. 116+30.89 to Sta. 119+82.28 left
xxx MSE Wall #5 Sta. 116+30.89 to Sta. 118+00.00 right. Pedestrian fence and additional 1' shoulder extends beyond MSE wall from Sta.118+00.00 to 119+90.00 right

STA 116+30.89 TO STA 119+82.28

Gravel Trail B



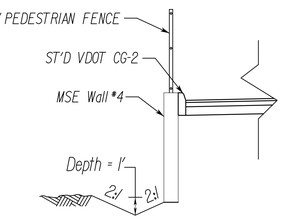
STA 302+44.30 TO STA 303+50.00



STA 300+06.30 TO STA 302+44.30

STA 119+82.28 TO STA 122+00.00

x MSE Wall #4 Sta. 300+06.30 to Sta. 302+37.02 left
xx Pedestrian fence and additional 1' shoulder extends beyond MSE wall from Sta.118+00.00 to 119+90.00 right



STA 118+48.83 TO STA 120+25.00
STA 300+06.30 TO STA 300+49.95

Whitman, Requardt & Associates, LLP

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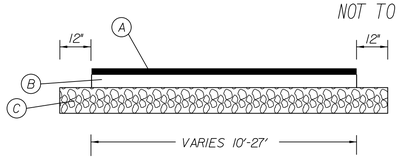
NOTE:

1. FOR SUPERELEVATION AND TRANSITIONS INFORMATION REFER TO PROFILE SHEETS.

2. FOR MSE WALL DETAILS SEE SHEETS 6(23) - 6(29).

3. FOR SOLDIER PILE WALL DETAILS SEE SHEETS 10(1) - 10(4).

ASPHALT TRAIL
NOT TO SCALE



(A) SURFACE - 1.5" ASPHALT CONCRETE, TYPE SM-9.5A ESTIMATED AT 182 LBS/SY
(B) BASE - 3" ASPHALT CONCRETE, TYPE BM-25.0A
(C) SUBBASE - 6" PLAIN AGGREGATE, TYPE 1, SIZE NO.21B EXTENDED 12" ON EITHER SIDE OF THE BASE

EMERGENCY POLICE – FIRE – RESCUE 911

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12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
TYPICAL SECTIONS

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

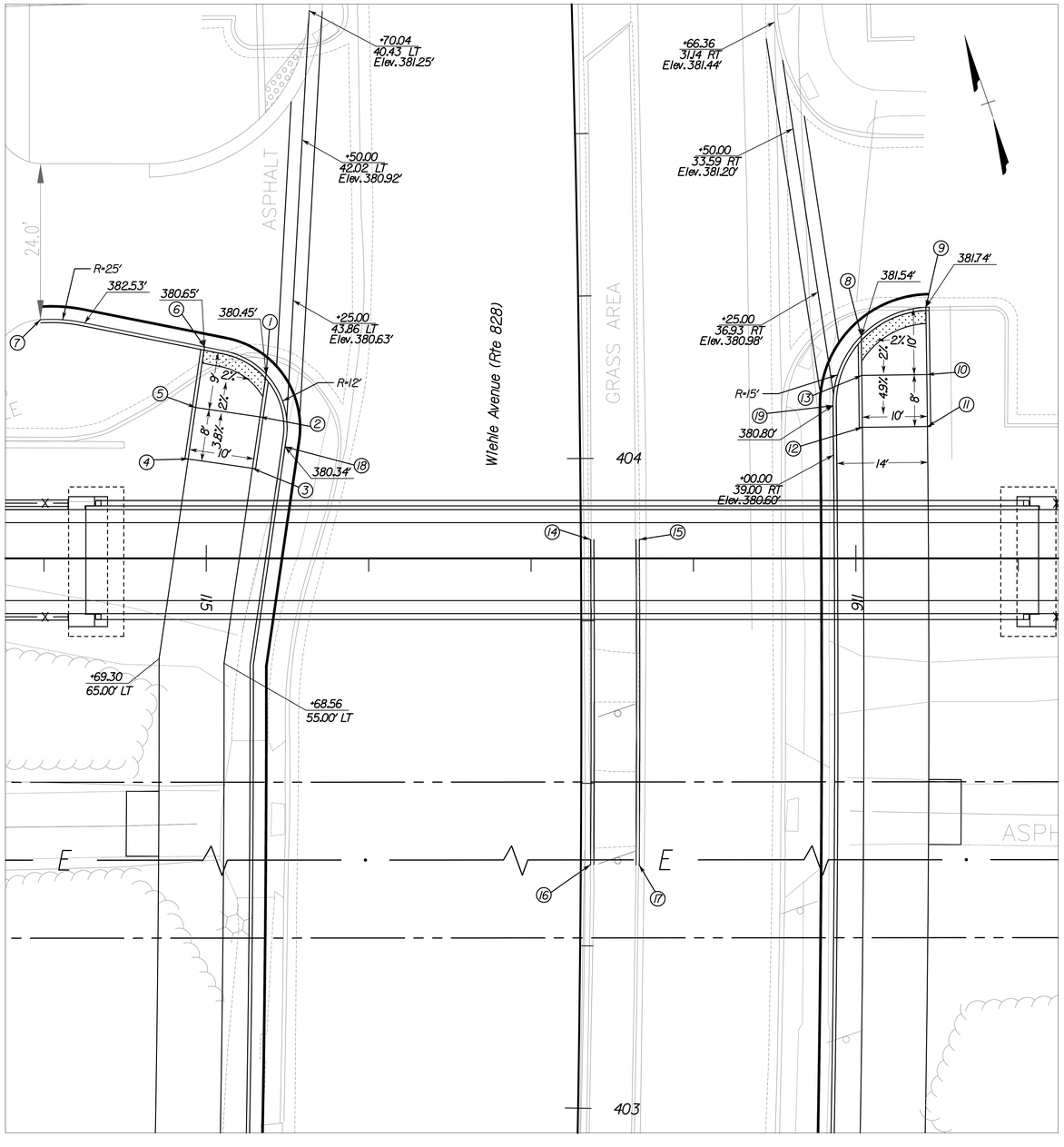
APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE	DESIGNED: NDD	SHEET
NTS	DRAFTED: WRA	2C
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER_ SCOTT RUFFNER,P.E.,(703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _FAIRFAX COUNTY, NOVEMBER 28,2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23,2014

CURB RAMP DETAIL SHEET



SCALE
0 10' 20'

POINT	FACE OF CURB	TOP OF CURB	LANDING	BACK OF RAMP	STATION	OFFSET	COMMENTS
1	— — —	380.95	380.45	— — —	404+13.62	48.20' LT	NOSE DOWN
2	380.57	381.07	— — —	— — —	404+06.97	49.24' LT	— — —
3	— — —	— — —	— — —	380.87	403+98.96	50.47' LT	— — —
4	— — —	— — —	— — —	381.07	404+00.52	60.35' LT	— — —
5	380.77	381.37	— — —	— — —	404+08.54	59.11' LT	— — —
6	— — —	381.15	380.65	— — —	404+18.00	57.63' LT	NOSE DOWN
7	383.17	383.67	— — —	— — —	404+22.65	82.81' LT	MATCH EXIST.
8	— — —	382.04	381.54	— — —	404+18.26	43.50' RT	NOSE DOWN
9	— — —	382.24	381.74	— — —	404+22.46	53.50' RT	CURVE PT NOSE DOWN
10	381.86	382.36	— — —	— — —	404+12.24	53.50' RT	— — —
11	— — —	— — —	— — —	381.47	404+04.33	53.50' RT	— — —
12	— — —	— — —	— — —	381.27	404+04.33	43.50' RT	— — —
13	381.66	382.16	— — —	— — —	404+12.24	43.50' RT	— — —
14	381.72	382.22	— — —	— — —	403+87.49	1.50' RT	MATCH EXIST.
15	381.47	381.97	— — —	— — —	403+87.47	9.00' RT	MATCH EXIST.
16	381.22	381.72	— — —	— — —	403+37.49	1.50' RT	MATCH EXIST.
17	380.65	381.15	— — —	— — —	403+37.47	9.00' RT	MATCH EXIST.
18	380.34	380.84	— — —	— — —	404+02.27	45.41' LT	CURVE PC
19	381.08	381.58	— — —	— — —	404+07.68	39.00' RT	CURVE PC

Whitman, Requardt & Associates, LLP

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REVISIONS

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703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
CURB RAMP DETAIL SHEET

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
1"=10'	DRAFTED: WRA	2D(1)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
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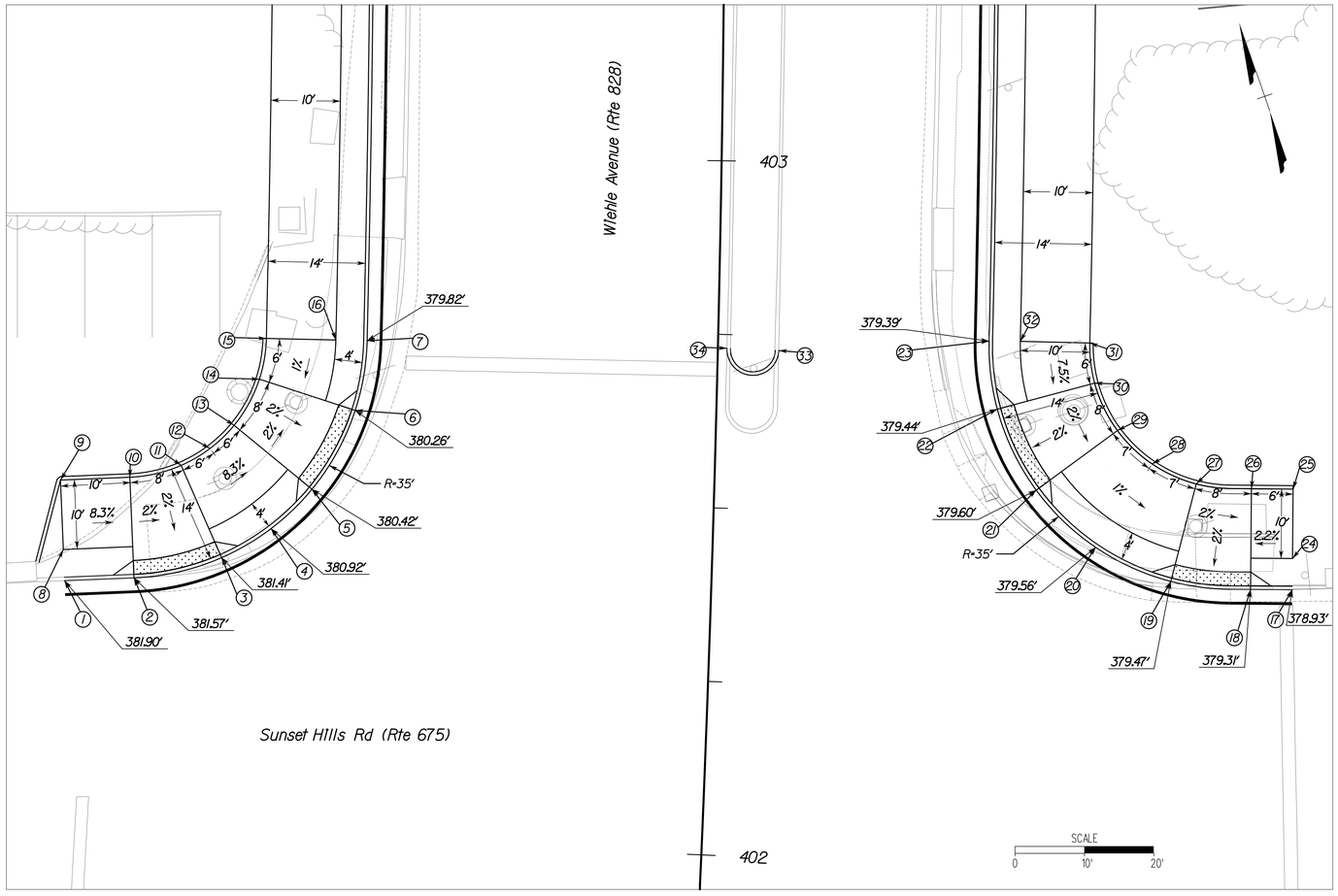
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC., (703) 361-6005 DECEMBER 23, 2014

CURB RAMP DETAIL SHEET

POINT	FACE OF CURB	TOP OF CURB	LANDING	BACK OF RAMP	STATION	OFFSET	COMMENTS
1	381.90	382.40	— — —	— — —	402+36.46	93.06' LT	MATCH EXIST.
2	— — —	— — —	381.70	— — —	402+37.22	83.09' LT	CURVE PC
3	— — —	— — —	381.41	— — —	402+40.60	70.58' LT	— — —
4	380.92	381.42	— — —	— — —	402+45.08	63.60' LT	— — —
5	— — —	— — —	380.56	— — —	402+51.01	57.88' LT	— — —
6	— — —	— — —	380.32	— — —	402+62.69	51.97' LT	— — —
7	379.82	380.32	— — —	— — —	402+72.91	50.50' LT	— — —
8	— — —	382.48	— — —	— — —	402+41.06	93.39' LT	CURVE PT
9	— — —	— — —	— — —	382.68	402+51.29	94.10' LT	— — —
10	— — —	382.35	— — —	381.85	402+52.00	84.13' LT	— — —
11	— — —	382.19	— — —	381.69	402+53.96	76.79' LT	— — —
12	— — —	— — —	— — —	381.20	402+56.56	72.71' LT	— — —
13	— — —	381.20	— — —	380.70	402+60.04	69.34' LT	— — —
14	— — —	381.04	— — —	380.54	402+66.91	65.86' LT	— — —
15	— — —	— — —	— — —	380.60	402+72.90	65.00' LT	— — —
16	— — —	380.40	— — —	— — —	402+72.91	55.00' LT	— — —
17	378.93	379.43	— — —	— — —	402+40.85	83.60' RT	MATCH EXIST.
18	— — —	— — —	379.31	— — —	402+40.71	77.60' RT	CURVE PC
19	— — —	— — —	379.47	— — —	402+41.49	66.09' RT	— — —
20	379.56	380.06	— — —	— — —	402+46.00	55.11' RT	— — —
21	— — —	— — —	379.60	— — —	402+53.86	46.34' RT	— — —
22	— — —	— — —	379.44	— — —	402+65.25	40.42' RT	— — —
23	379.39	379.89	— — —	— — —	402+74.91	39.00' RT	CURVE PT
24	— — —	379.51	— — —	— — —	402+45.25	83.50' RT	— — —
25	— — —	— — —	— — —	379.71	402+55.04	83.29' RT	— — —
26	— — —	380.08	— — —	379.58	402+54.92	77.29' RT	— — —
27	— — —	380.25	— — —	379.75	402+55.38	69.33' RT	— — —
28	— — —	— — —	— — —	379.81	402+58.04	62.91' RT	— — —
29	— — —	380.38	— — —	379.88	402+62.64	57.78' RT	— — —
30	— — —	380.22	— — —	379.72	402+69.30	54.33' RT	— — —
31	— — —	— — —	— — —	380.17	402+74.98	53.50' RT	— — —
32	— — —	379.97	— — —	— — —	402+74.98	43.50' RT	— — —
33	380.12	— — —	— — —	— — —	402+72.88	08.77' RT	MATCH EXIST.
34	380.80	— — —	— — —	— — —	402+73.02	01.31' RT	MATCH EXIST.



Whitman, Requardt & Associates, LLP

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EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
CURB RAMP DETAIL SHEET

PROJECT NO: 1400102-2013

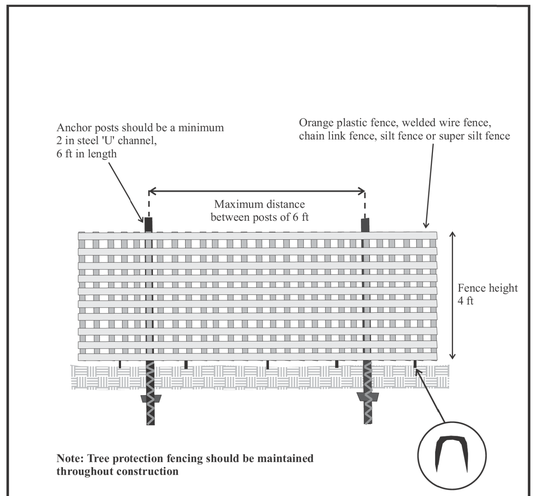
SCALE	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	SHEET
1"=10'		2D(2)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

INSERTABLE SHEETS

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

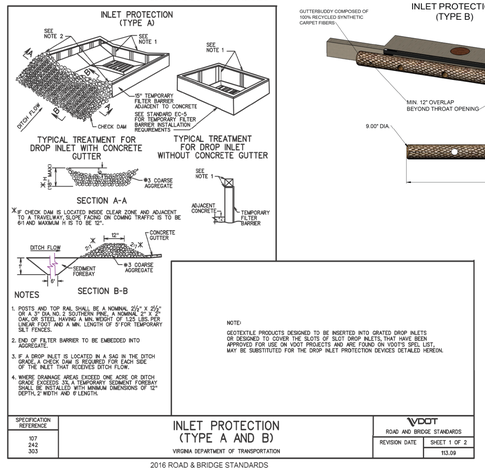


Note: Tree protection fencing should be maintained throughout construction

Adapted from: ***Woodland Conservation Manual***, Prince George County, Maryland

Ref. Sec. 12-0703.1B, 12-0505.1B Rev. 2-02, 2011 Reprint	TREE PROTECTION FENCE INSTALLATION	PLATE NO. 6-12	STD. NO.

2016 ROAD & BRIDGE STANDARDS



2016 ROAD & BRIDGE STANDARDS

Whitman, Requardt & Associates, LLP

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EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
INSERTABLE SHEETS

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE NTS | DESIGNED: NDD | DRAFTED: WRA | CHECKED: RBH | SHEET 2E

FUND # 500-C5000

PROJECT MANAGER_ SCOTT RUFFNER,P.E.,(703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _FAIRFAX COUNTY, NOVEMBER 28,2014_ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

PROJECT DATA SHEET

(FEDERAL/STATE FUNDED PROJECT)

PROJECT INFORMATION				
PROJECT NAME	W&OD TRAIL AT WIEHLE AVE			
COUNTY PROJECT NUMBER	1400102-2013			
VDOT UPC NUMBER (IF APPLICABLE)	PE – 140294	RW – 107439	CN – 107439	
PROJECT LIMITS / LENGTH	1,800 L.F. PAVED TRAIL AND 147 L.F. PED. BRIDGES			
FUNDING SOURCE	FEDERAL REGIONAL SURFACE TRANSPORTATION PROGRAM & CONGESTION MITIGATION AIR QUALITY IMPROVEMENTS PROGRAM			
DATE OF FUNDING OBLIGATION	OCTOBER 24, 2014			
LATITUDE/ LONGITUDE	LAT 38.9505	LONG –77.3358		
6TH ORDER HUC	PL22			

TYPE OF DEVELOPMENT:

☐ NEW DEVELOPMENT ☒ REDEVELOPMENT

STORMWATER MANAGEMENT TECHNICAL CRITERIA USED:

☒ VSMP TECHNICAL CRITERIA IIB / FFX CO STORMWATER MANAGEMENT ORDINANCE ARTICLE 4

☐ VSMP TECHNICAL CRITERIA IIC / FFX CO STORMWATER MANAGEMENT ORDINANCE ARTICLE 5

SWM WAIVER/EXCEPTION(S) REQUIRED: YES ☒ NO ☐ APPROVAL DATE: _____

TYPE(S): LDS NUMBER: _____

A) IS PROJECT LOCATED WITHIN THE WATER SUPPLY PROTECTION OVERLAY DISTRICT (WSPOD)? YES ☐ NO ☒

B) IS PROJECT A PUBLIC IMPROVEMENT (PI) PLAN SUBJECT TO FULL LDS REVIEW/APPROVAL? YES ☐ NO ☒

C) IS PROJECT A LINEAR PROJECT SUBJECT TO VDOT REVIEW/APPROVAL AND VDOT LUP PROCESS? YES ☒ NO ☐

IF ANSWER TO BOTH A & B IS YES, SEE NOTE (3). IF ANSWER TO BOTH A & C IS YES, SEE NOTE (3.1).

CONSTRUCTION SITE AREAS

TOTAL SITE AREA	3.08		(AC)	134,200		(SF)
TOTAL DISTURBED AREA	3.08		(AC)	134,200		(SF)
TOTAL SITE IMPERVIOUS AREA	PRE	1.14	(AC)	POST	1.55	(AC)

VPDES PERMIT REQUIREMENTS (CHECK ONE):

☐ DISTURBED AREA < 1 (AC) ; VPDES PERMIT NOT REQUIRED.

☒ DISTURBED AREA ≥ 1 (AC) ; VPDES PERMIT IS REQUIRED.

RECEIVING WATERS

WATERSHED NAME: POTOMAC RIVER–DIFFICULT RUN–COLVIN RUN	RECEIVING STREAM: COLVIN RUN
IS THERE A LOCAL TMDL RESTRICTION WITHIN THE PROJECT WATERSHED AREA	YES ☐ NO ☒
IF YES PROVIDE DESCRIPTION OF IMPAIRED WATERS + TMDL TYPE	

NOTE:

(1) FOR ADDITIONAL DETAILS SEE THE LATEST REVISION OF THE DRAINAGE/SWM REPORT AND EROSION AND SEDIMENT CONTROL PLAN SHEET 3B–6B.

(2) THIS IS A COUNTY ADMINISTERED PROJECT AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS PREPARED BY FAIRFAX COUNTY. WHEN APPLICABLE, IT WILL BE INCLUDED WITH THE CONSTRUCTION PACKAGE.

(3) PURCHASE OF NUTRIENT CREDITS MAY NOT BE USED TO SATISFY DEQ'S WATER QUALITY REQUIREMENTS ON THIS PROJECT.

(3.1) PURCHASE OF NUTRIENT CREDITS MAY BE USED TO SATISFY DEQ'S WATER QUALITY REQUIREMENTS ON THIS PROJECT.

TABLE 1.
WATER QUALITY ANALYSIS PER VSMP TECHNICAL CRITERIA IIB / FFX CO STORMWATER MANAGEMENT ORDINANCE ARTICLE 4

RECEIVING WATERS	OUTFALL		TOTAL DISTURBED AREA		PRE DEVELOPMENT LAND USE				POST DEVELOPMENT LAND USE				PHOSPHORUS REMOVAL REQUIRED	ON–SITE PHOSPHORUS REMOVAL PROVIDED	IS PROJECT LOCATED WITHIN WSPOD	
	ID	LOCATION	(AC)	(SF)	FORESTED (AC)	TURF (AC)	IMPERVIOUS AREA (AC)	OTHER (AC)	FORESTED (AC)	TURF (AC)	IMPERVIOUS AREA (AC)	OTHER (AC)	(LB/YR)	(LB/YR)	YES (3)(3.1)	NO (4)
COLVIN RUN	COLVIN RUN		3.08	134200		1.94	1.14			1.53	1.55		1.39	0.0		X

NOTE:

(4.) PHOSPHORUS REMOVAL TO BE PROVIDED BY THE PURCHASE OF OFFSITE NUTRIENT CREDITS. PLEASE SEE TABLE 2 BELOW FOR MORE INFORMATION.

TABLE 2.
OFFSITE COMPLIANCE FOR WATER QUALITY (NUTRIENT CREDITS)

NUTRIENT CREDIT BANK NAME	4TH ORDER HUC	NUTRIENT CREDIT TO BE ACQUIRED (LB/YR)	PURCHASE LETTER (MM/DD/YY) (5)
NAME TO BE PROVIDED UPON PURCHASE	02070008	1.39	MM/DD/YY

NOTE:

(5.) THE "AFFIDAVIT OF PHOSPHOROUS CREDIT SALE" WILL BE PROVIDED ON SHEET 2G UPON COMPLETION OF PURCHASE BY VDOT.

(6.) UPON APPROVAL OF SWM MEASURES BY FAIRFAX COUNTY LDS AND VDOT DRAINAGE AND SUBSEQUENT TO RECEIVING CLEARANCE FROM VDOT NOVA HYDRAULIC ENGINEER, A REQUEST FOR PURCHASE OF NUTRIENT CREDITS INCLUDING THE LATEST REVISION OF VDOT LD–453 FORM AND OTHER REQUIRED DRAINAGE DOCUMENTS WILL BE SUBMITTED BY FAIRFAX COUNTY DOT TO VDOT NOVA HYDRAULIC ENGINEER. UPON REVIEW/APPROVAL, THE REQUEST WILL BE FORWARDED TO VDOT CENTRAL OFFICE BY NOVA HYDRAULIC ENGINEER.

STORMWATER INFORMATION TABLE

STORMWATER INFORMATION

HIGH DENSITY POLYETHYLENE (HDPE) USED ON THIS PROJECT YES ☒ NO ☐

THE PLAN MEETS: TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA ☒

SWM FACILITIES (PROPOSED ONLY) THE PLAN MEETS THE GRANDFATHERING CRITERIA ☐

FACILITY ID NO.	FACILITY TYPE	PURPOSE	AREA TREATED (ACRES)	LATITUDE (DECIMAL DEGREE)	LONGITUDE (DECIMAL DEGREE)	WATERSHED	RECEIVING WATERS	MAINTENANCE AGREEMENT Y/N	VAHU6 CODE	LENGTH/ AREA OF FACILITY	UNIT (FT/ SF)	NO. OF BLDG. SERVED (FOR ROOFTOP DISCONNECT)
	Purchased Credits	Water Quality	N/A	38.9505	-77.3358	Potomac-Difficult Run	Colvin Run	N	PL22	N/A		N/A

VPDES REQUIRED YES ☒ NO ☐

VPDES PERMIT NO. (IF TIME LIMITS): _____

COUNTY STORMWATER PERMIT REQUIRED YES ☒ NO ☐

SWM FACILITIES DESIGNED USING: TECHNICAL CRITERIA 4 (NEW) ☒

TECHNICAL CRITERIA 5 (OLD) ☐

DISTURBED AREA (DA) WITHIN WATERSHED(S):

WATERSHED 1 Potomac-Difficult Run- Colvin R DA= 3.08 (ACRES)

WATERSHED 2 _____ DA= _____ (ACRES)

TOTAL DISTURBED AREA= 3.08 (ACRES)

OWNER/REPRESENTATIVE CONTACT INFORMATION

NAME: WAYNE KOTTER, CHIEF, STORMWATER & TRANSPORTATION CONSTRUCTION BRANCH

PHONE NUMBER: 703–324–5111

EMAIL ADDRESS: WAYNE.KOTTER@FAIRFAXCOUNTY.GOV

ADDRESS: UTILITIES DESIGN AND CONSTRUCTION DIVISION
12000 GOVERNMENT CENTER PKWY
SUITE 463
FAIRFAX, VA 22035

CONSULTANT CERTIFIED E&S PLAN REVIEWER OR PE

COMMONWEALTH OF VIRGINIA
KRISTEN MICHELLE ESTOCSIN
Lic. No. 0402059192
PROFESSIONAL ENGINEER

5-29-2018

CONSULTANT STORMWATER MANAGEMENT PLAN REVIEWER

COMMONWEALTH OF VIRGINIA
KRISTEN MICHELLE ESTOCSIN
Lic. No. 0402059192
PROFESSIONAL ENGINEER

SWPR 0297

5-29-2018

Whitman, Requardt & Associates, LLP

SITE DEVELOPMENT AND INSPECTIONS DIVISION APPROVAL STAMP

EMERGENCY POLICE – FIRE – RESCUE 911 REVISED: APRIL 2018

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035–0052

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703–324–5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
PROJECT DATA SHEET

PROJECT NO: 1400102-2013

SCALE NTS | DESIGNED: NDD | DRAFTED: WRA | CHECKED: RBH | SHEET 2F

FUND # 500–C5000

PROJECT MANAGER_ SCOTT RUFFNER,P.E.,(703)877-5736
SURVEYED BY, DATE _FAIRFAX COUNTY, NOVEMBER 28,2014
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.(703) 361-6005 DECEMBER 23,2014

Whitman, Requardt & Associates, LLP

STORM SEWER PROFILES

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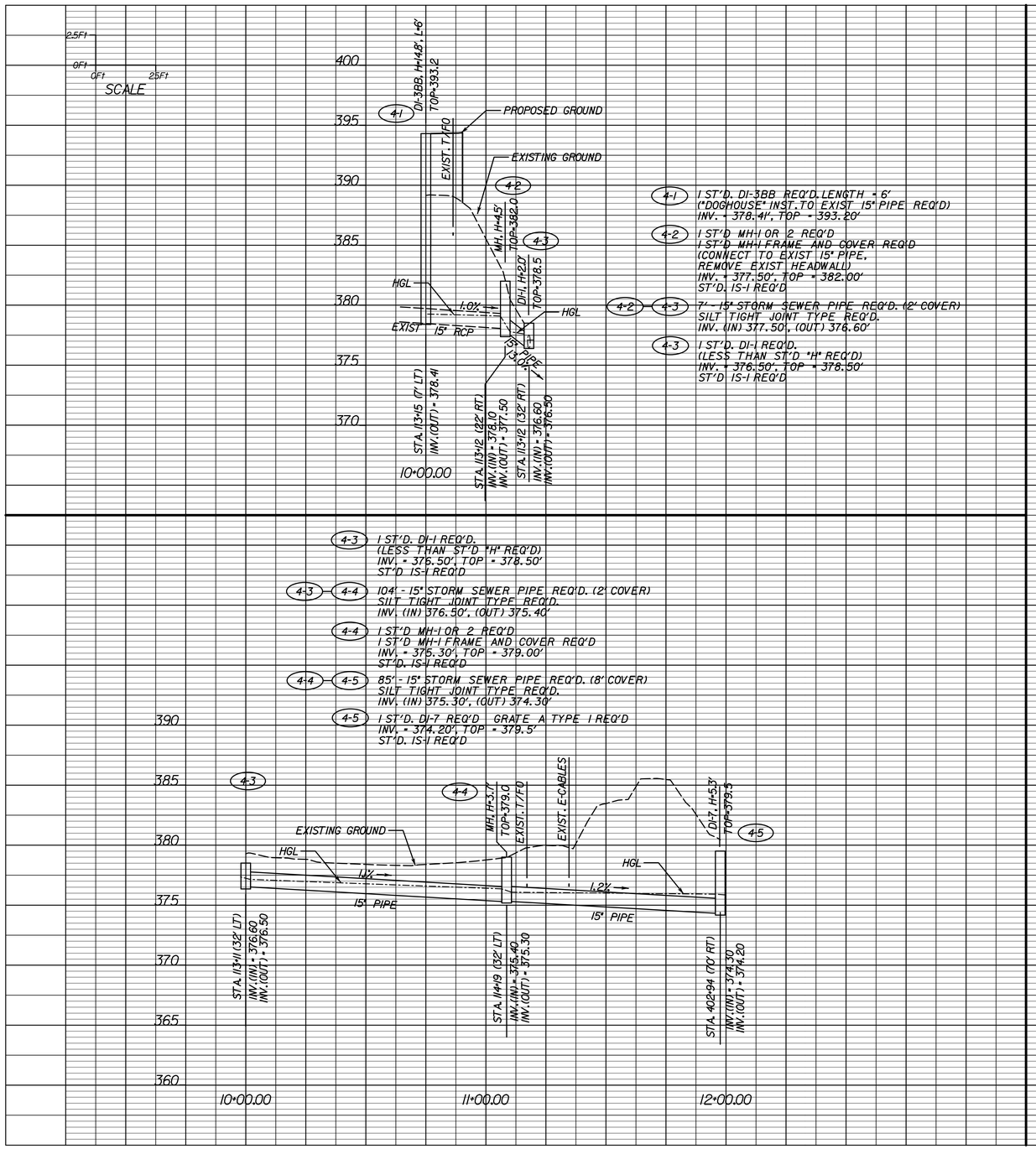

NOTE:

1. POST-CONSTRUCTION PIPE INSTALLATION INSPECTION SHALL BE PROVIDED AS REQUIRED PER SECTION 302.03(D) OF THE VDOT 2016 SUPPLEMENTAL ROAD & BRIDGE SPECIFICATIONS.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
STORM SEWER PROFILES & DRAINAGE DESCRIPTIONS

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE	DESIGNED: NDD	SHEET
AS SHOWN	DRAFTED: WRA	2H(1)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
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SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

Whitman, Requardt & Associates, LLP

STORM SEWER PROFILES

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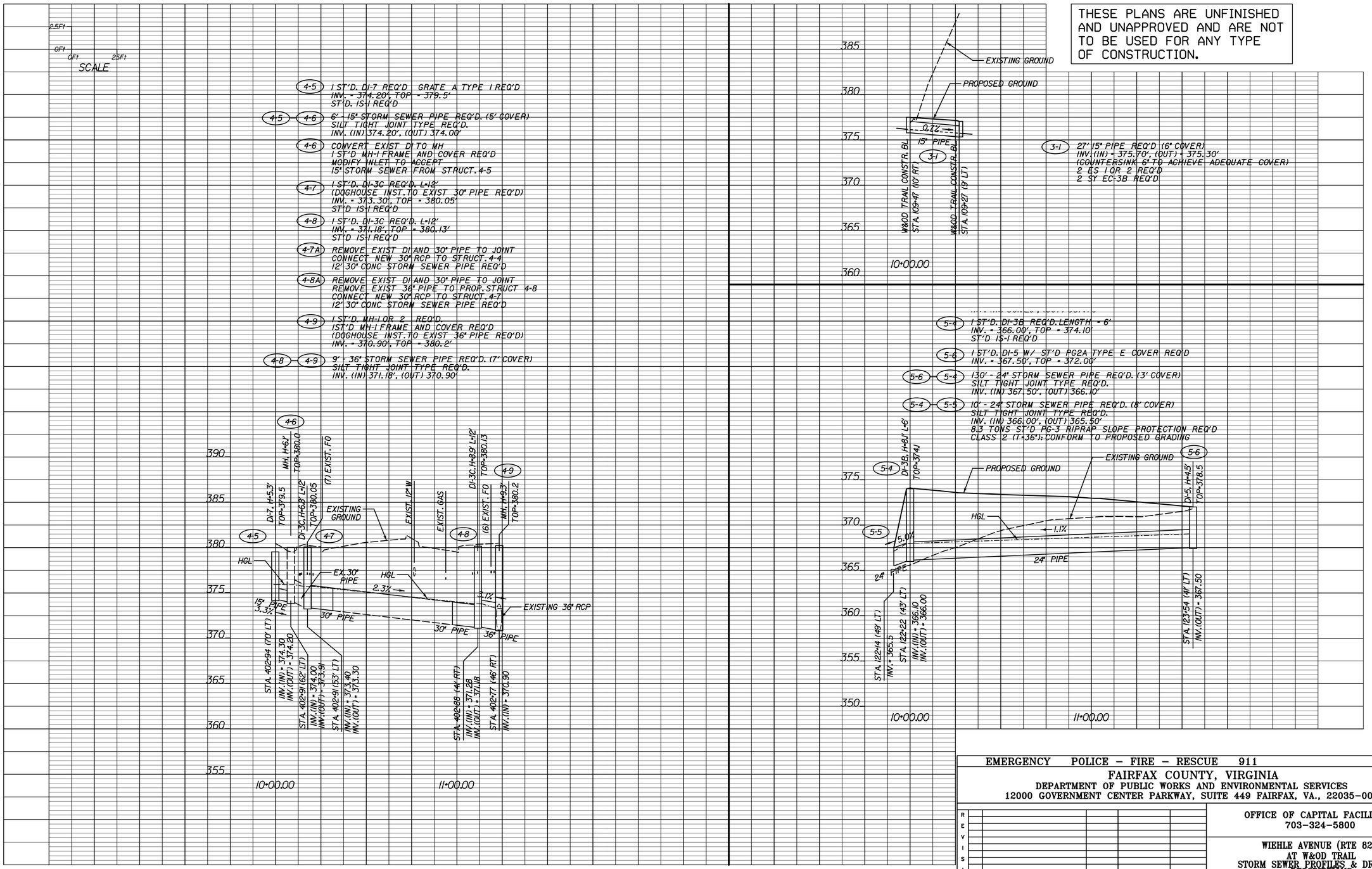

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EMERGENCY POLICE – FIRE – RESCUE 911

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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
STORM SEWER PROFILES & DRAINAGE DESCRIPTIONS

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
AS SHOWN	DRAFTED: WRA	2H(2)
	CHECKED: RBH	

REVISIONS

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FUND # 500-C5000

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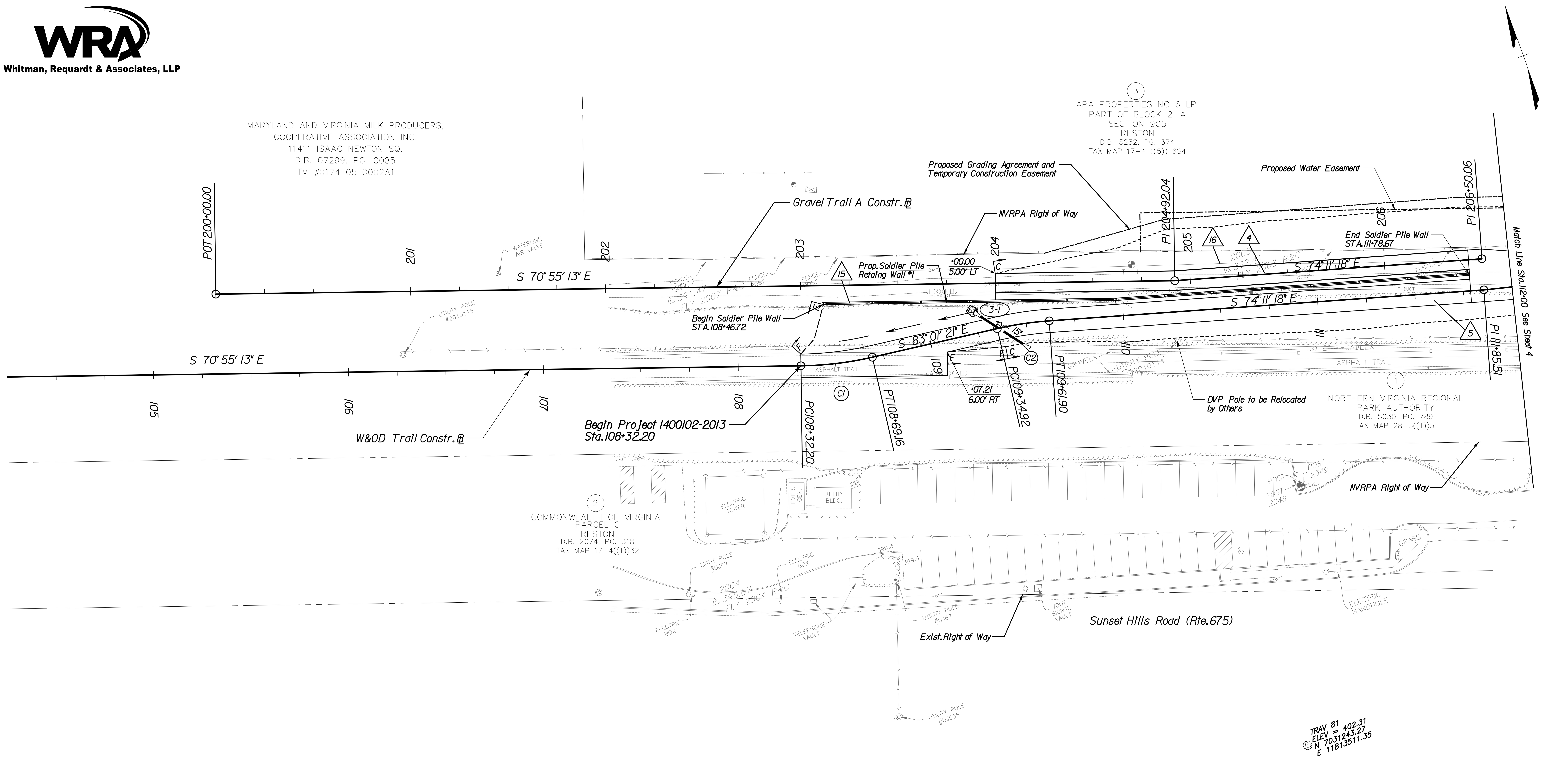
WRA
Whitman, Requardt & Associates, LLP



MARYLAND AND VIRGINIA MILK PRODUCERS, COOPERATIVE ASSOCIATION INC.
11411 ISAAC NEWTON SQ.
D.B. 07299, PG. 0085
TM #0174 05 0002A1
APA PROPERTIES NO 6 LP
PART OF BLOCK 2-A
SECTION 905
RESTON
D.B. 5232, PG. 374
TAX MAP 17-4 ((5)) 6S4
Proposed Grading Agreement and Temporary Construction Easement
Proposed Water Easement
Gravel Trail A Constr. ℄
NVRPA Right of Way
POT 200+00.00
S 70° 55' 13" E
Prop. Soldier Pile Retaing Wall #1
+00.00 5.00' LT
PI 204+92.04
PI 206+50.06
End Soldier Pile Wall STA.111+78.67
S 74° 11' 18" E
Begin Soldier Pile Wall STA.108+46.72
S 83° 01' 21" E
Match Line Sta.112+00 See Sheet 4
PI 111+85.51
W&OD Trail Constr. ℄
Begin Project 1400102-2013 Sta.108+32.20
PC108+32.20
PT108+69.16
+07.21 6.00' RT
PC109+34.92
PT109+61.90
DVP Pole to be Relocated by Others
NORTHERN VIRGINIA REGIONAL PARK AUTHORITY
D.B. 5030, PG. 789
TAX MAP 28-3((1))51
NVRPA Right of Way
COMMONWEALTH OF VIRGINIA
PARCEL C
RESTON
D.B. 2074, PG. 318
TAX MAP 17-4((1))32
Sunset Hills Road (Rte.675)
Exist. Right of Way
TRAV 81
ELEV = 402.31
N 7031243.27
E 11813511.35

LEGEND

- Proposed Pavement Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- C - Denotes Construction Limits in Cuts
- F - Denotes Construction Limits in Fills
- → Denotes Proposed Graded "V" Ditch

1. ST'D CG-6 REQUIRED
2. ST'D RADIAL CG-6 REQUIRED
3. 10' WIDE CONCRETE SIDEWALK
4. 10' WIDE ASPHALT TRAIL
5. 12' WIDE ASPAHLT TRAIL
6. ST'D CG-12 TYPE B MODIFIED REQUIRED
7. ST'D CG-12 TYPE C REQUIRED
8. TIE INTO EXISTING CURB & GUTTER
9. FULL DEPTH SAWCUT
10. ST'D MS-2 REQUIRED
11. RELOCATE EXISTING UTILITY BY OTHERS
12. ST'D VDOT UD-4
13. ST'D VDOT CG-2
14. REMOVE EXISTING CURB, CURB RAMP OR SIDEWALK
15. 8' PEDESTRIAN FENCE
16. RELOCATE EXISTING UTILITY

(C1) Curve W&OD-1
PI = 108+50.75
DELTA = 12° 06' 08.46" (LT)
D = 32° 44' 26"
T = 18.55'
L = 36.96'
R = 175.00'
PC = 108+32.20
PT = 108+69.16

(C2) Curve W&OD-2
PI = 109+48.44
DELTA = 8° 50' 03.43" (RT)
D = 32° 44' 26"
T = 13.52'
L = 26.98'
R = 175.00'
PC = 109+34.92
PT = 109+61.90

NOTES:

1. GRADE AROUND TRAIL TO ENSURE POSITIVE DRAINAGE (2:1 MAX, 3:1 PREFERRED).
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONTRUCTION.

TRAVERSE POINT LOCATION TABLE

POINT #	NORTHING	EASTING	ELEVATION
81	7031243.274	11813511.350	402.31

SCALE 0 25' 50'

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Drainage Desc.	2H(1)-2H(2)
W&OD Trail Profile	3A(1)
Gravel Trail A Profile	3A(2)
Erosion & Sediment Control Plan	3B
Utility Plan	9(1)

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

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EMERGENCY POLICE - FIRE - RESCUE 911

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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
PLAN SHEET

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	SHEET
1"=25'		3

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
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W&OD TRAIL

CONSTRUCTION BASELINE

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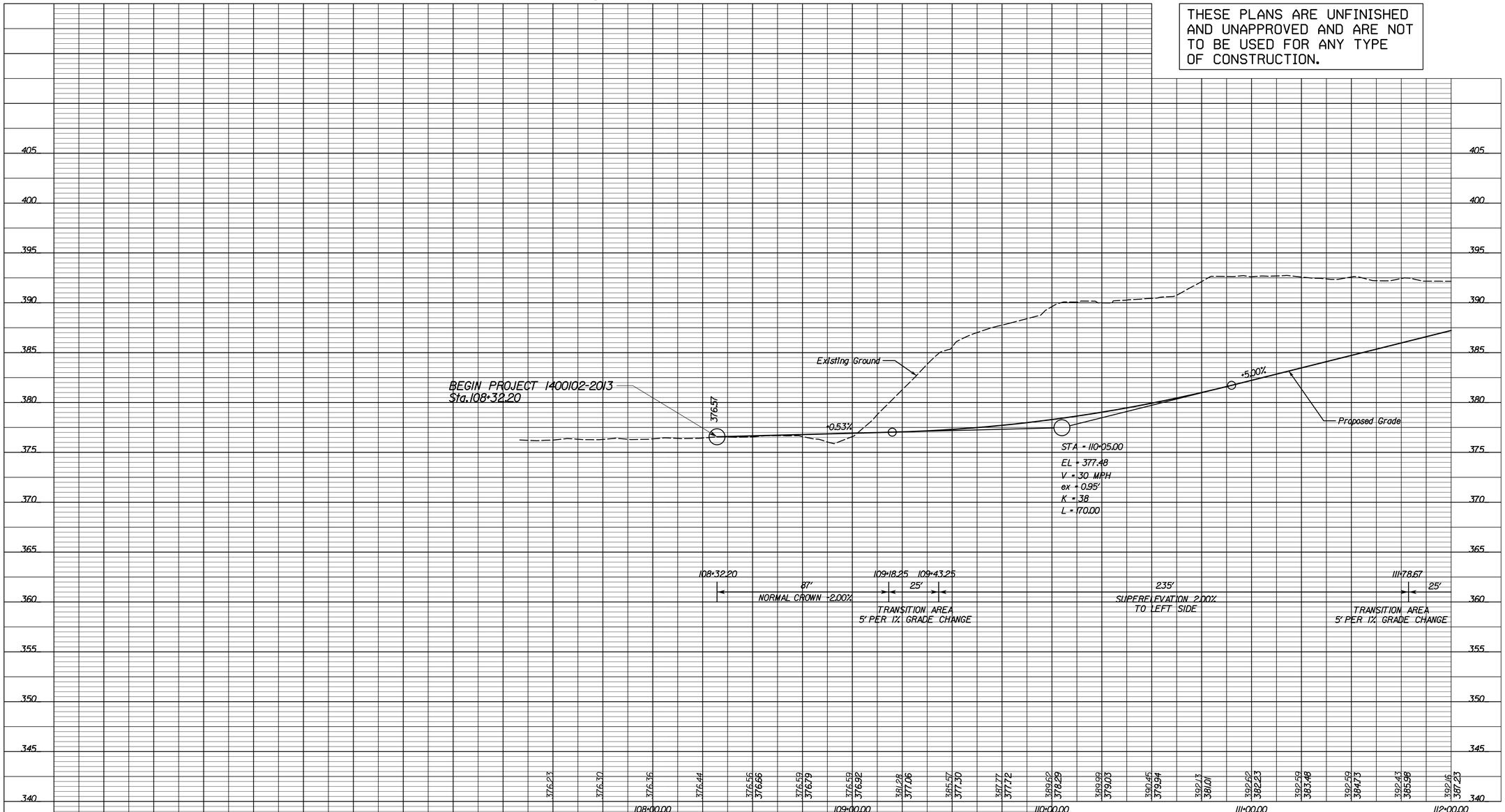

Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

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WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
W&OD TRAIL PROFILE SHEET

PROJECT NO: 1400102-2013

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SCALE	DESIGNED: NDD	SHEET
AS SHOWN	DRAFTED: WRA	3A(1)
	CHECKED: RBH	

FUND # 500-C5000

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GRAVEL TRAIL A

CONSTRUCTION BASELINE

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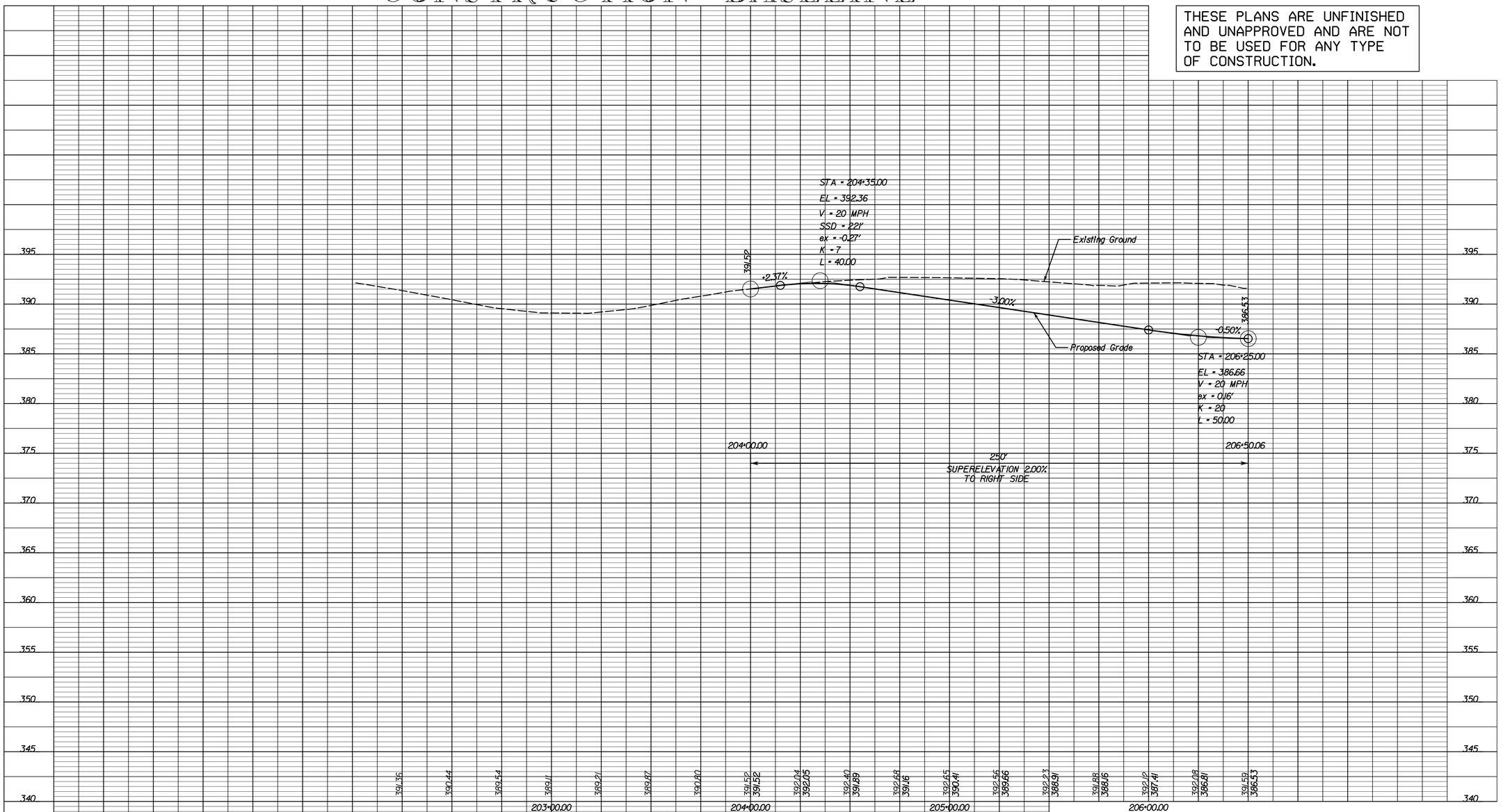

HOR SCALE: 1" = 25'
VERT SCALE: 1" = 5'

5'
0'
0'
25'

Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

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703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
GRAVEL TRAIL A PROFILE SHEET

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

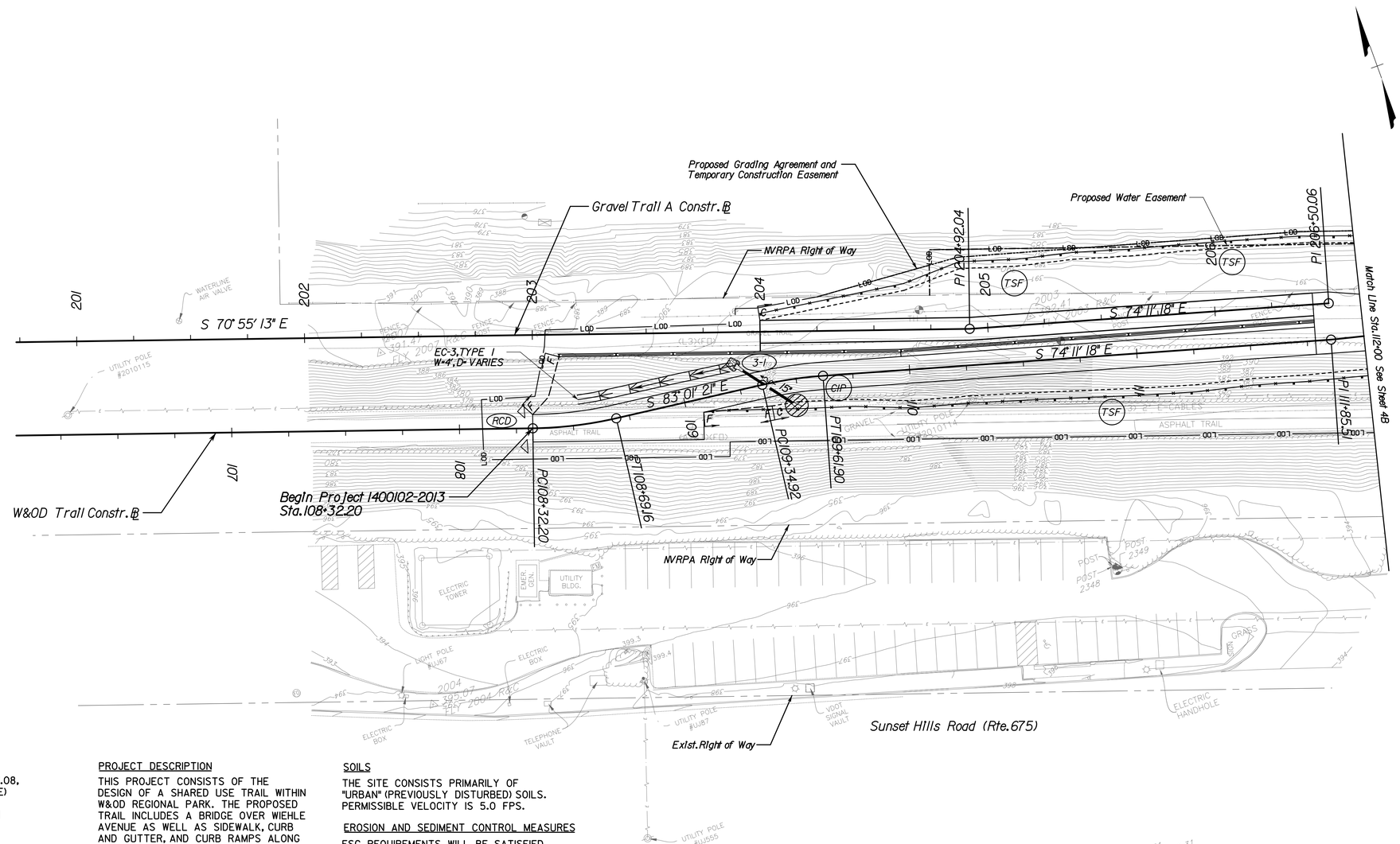
APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE	DESIGNED: NDD	SHEET
AS SHOWN	DRAFTED: WRA	3A(2)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

EROSION & SEDIMENT CONTROL PLAN



NOTES:

1.) THIS SHEET IS TO BE USED FOR EROSION AND SEDIMENT CONTROL MEASURES ONLY!

LEGEND

- DENOTES CONSTRUCTION LIMITS IN CUT
- DENOTES CONSTRUCTION LIMITS IN FILL
- DENOTES EC-3
- DENOTES LIMITS OF DISTURBANCE
- DENOTES INLET PROTECTION, VESCH 3.07 AND 3.08, GUTTER BUDDY ONLY (SEE DETAIL ON SHEET 2E)
- DENOTES ROCK CHECK DAMS, ST'D EC-4 TYPE II
- DENOTES TEMPORARY SILT FENCE, ST'D EC-5
- DENOTES CULVERT INLET PROTECTION, ST'D EC-6 TYPE C

THE SEQUENCE OF E&S MEASURES IS GENERALLY AS FOLLOWS:

1.) INSTALL PERIMETER ESC MEASURES, INCLUDING SILT FENCE AND ROCK CHECK DAMS.

2.) PLACE INLET PROTECTION ON EXISTING STORM DRAIN SYSTEMS.

3.) INSTALL TEMPORARY AND PERMANENT PIPES AND CHANNELS USED TO CONVEY OFFSITE RUNOFF THROUGH THE CONSTRUCTION SITE.

4.) PLACE INLET PROTECTION ON PROPOSED DRAINAGE INLETS AS SOON AS THEY ARE CONSTRUCTED.

5.) STABILIZE ALL FINISH GRADED AREAS.

6.) REMOVE ALL TEMPORARY ESC MEASURES.

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE DESIGN OF A SHARED USE TRAIL WITHIN W&OD REGIONAL PARK. THE PROPOSED TRAIL INCLUDES A BRIDGE OVER WIEHLE AVENUE AS WELL AS SIDEWALK, CURB AND GUTTER, AND CURB RAMPS ALONG WIEHLE AVENUE.

EXISTING SITE CONDITION

RUNOFF IS CONVEYED THROUGH EXISTING OPEN AND CLOSED SYSTEMS.

ADJACENT AREAS

THE SITE IS ADJACENT TO COMMERCIAL AREAS AND ROADWAY.

CRITICAL AREAS

THE PROJECT CONTAINS STEEP SLOPES ADJACENT TO THE TRAILS THAT CAN LEAD TO EROSION PROBLEMS AS EXISTING VEGETATION IS CLEARED. ALL SLOPES 2:1 OR GREATER SHALL BE SODDED AND STAKED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE ENGINEER.

SOILS

THE SITE CONSISTS PRIMARILY OF "URBAN" (PREVIOUSLY DISTURBED) SOILS. PERMISSIBLE VELOCITY IS 5.0 FPS.

EROSION AND SEDIMENT CONTROL MEASURES

ESC REQUIREMENTS WILL BE SATISFIED BY COMBINATIONS OF INLET PROTECTION, ROCK CHECK DAMS, AND SILT FENCE.

PERMANENT STABILIZATION

THE SITE SHALL BE STABILIZED IN ACCORDANCE TO THE MINIMUM STANDARD 3 (MS-19). SEEDING AND MULCHING SPECIFICATIONS SHALL COMPLY WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION 1992.

STORMWATER RUNOFF CONSIDERATION

THE PROJECT RUNOFF OUTFALLS INTO 2 LOCATIONS AND STORMWATER MANAGEMENT COMPUTATIONS ARE SHOWN IN THE SWM REPORT.

SCALE
0 25' 50'

Whitman, Requardt & Associates, LLP

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
EROSION & SEDIMENT CONTROL PLAN

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
1"=25'	DRAFTED: WRA	3B
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _
SUBSURFACE UTILITY BY, DATE _ SO. DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

TRAVERSE POINT LOCATION TABLE			
POINT #	NORTHING	EASTING	ELEVATION
82	7031210.984	11813922.254	381.66
83	7031259.058	11814128.026	382.32
84	7031125.040	11814157.369	377.57

(1) Sta.115+57.68 W&OD TRAIL @
Sta.403+84.62 WIEHLE AVE. @
△ = 89° 40' 36"

(3) APA PROPERTIES NO 6 LP
PART OF BLOCK 2-A
SECTION 905
RESTON
D.B. 5232, PG. 374
TAX MAP 17-4 ((5)) 6S4

(4) FAIRFAX COUNTY BOARD OF SUPERVISORS
BLOCK 5
SECTION 905
RESTON
D.B. 3707, PG. 609
TAX MAP 17-4 ((5)) 5

(5) MCDONALDS CORP.
LOT 1
BLOCK 5
SECTION 909
RESTON
D.B. 6207, PG. 1199
TAX MAP 17-4 ((15)) (5)
1

(6) SPIRIT MASTER FUNDING III, LLC
LOT 3-A
BLOCK 5
SECTION 909
RESTON
D.B. 6207, PG. 1199
TAX MAP 17-4 ((15)) (5)
3A

(7) MCDONALDS CORP.
OUTLOT A
BLOCK 5
SECTION 909
RESTON
D.B. 6207, PG. 1199
TAX MAP 17-4 ((15)) (5) A

(8) DAVID W TR
BALILES
LOT 4
BLOCK 5
SECTION 909
RESTON
D.B. 6207, PG. 1199
TAX MAP 17-4 ((15)) (5)
4

(1) NORTHERN VIRGINIA REGIONAL
PARK AUTHORITY
D.B. 5030, PG. 789
TAX MAP 28-3((1))51

(2) COMMONWEALTH OF VIRGINIA
PARCEL C
RESTON
D.B. 2074, PG. 318
TAX MAP 17-4((1))32

(9) COMMONWEALTH OF VIRGINIA
PART PARCEL 14
RESTON
D.B. 9881, PG. 1672
TAX MAP 17-4((1))17

Future Redevelopment Plans for the Reston Fire Station are shown

Wiehle Avenue (Rte.828)

Wiehle Ave (Rte 828) Constr. @

VDOT Right of Way

Proposed Water Easement

Proposed Grading Agreement and Temporary Construction Easement

ST'D VDOT Asphalt CG-II
STA.404+35.74
Width = 24'

W&OD Trail Constr. @

Prop.MSE Wall #2

Begin MSE Wall
STA.113+20.76

NVRPA Right of Way

ST'D VDOT Asphalt CG-II
STA.404+36.11
Width = 24'

Proposed Right of Way

Proposed Retaining Wall Easement

Begin MSE Wall
STA.116+30.80

Remove Picnic Table

Prop.MSE Wall #4

Match Line Sta.112+00 See Sheet 3

Match Line Sta.118+75 See Sheet 5

S 76° 11' 21" E

S 70° 55' 13" E

End MSE Wall
STA.114+78.80

Begin Bridge
Sta.114+81.47

Prop.MSE Wall #3
15' ~

End Bridge
Sta.116+28.14

Prop.MSE Wall #5

End MSE Wall
STA.118+00.00

Begin MSE Wall
STA.113+00.00

+45.00
42.00' RT

+20.00
42.00' RT

DVP Pole to be Relocated by Others

TRAV 83
ELEV = 382.32
N 703125906
E 11814128.03

NVRPA Right of Way

CURB CUT W/ SPLASH PAD

ST'D VDOT CG-2

TRAV 82
ELEV = 381.66
N 703121098
E 11813922.25

TRAV 84
ELEV = 377.57
N 703112504
E 11814157.37

Exist.Right of Way

Sunset Hills Road (Rte.675)

402

403

404

405

50'

28'

(C5) Curve WIEHLE-I
PI = 403+89.81
DELTA = 8° 35' 10.7" (LT)
D = 1° 29' 0.3"
T = 289.81'
L = 578.53'
R = 3,860.50'
PC = 401+00.00
PT = 406+78.53

LEGEND

- Proposed Pavement Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- C ----- Denotes Construction Limits In Cuts
- F ----- Denotes Construction Limits In Fills
- ——→ Denotes Proposed Graded "V" Ditch

1	ST'D CG-6 REQUIRED
2	ST'D RADIAL CG-6 REQUIRED
3	10' WIDE CONCRETE SIDEWALK
4	10' WIDE ASPHALT TRAIL
5	12' WIDE ASPAHLT TRAIL
6	ST'D CG-12 TYPE B MODIFIED REQUIRED
7	ST'D CG-12 TYPE C REQUIRED
8	TIE INTO EXISTING CURB & GUTTER
9	FULL DEPTH SAWCUT
10	ST'D MS-2 REQUIRED
11	RELOCATE EXISTING UTILITY BY OTHERS
12	ST'D VDOT UD-4
13	ST'D VDOT CG-2
14	REMOVE EXISTING CURB, CURB RAMP OR SIDEWALK
15	8' PEDESTRIAN FENCE
16	RELOCATE EXISTING UTILITY
17	REMOVE DRAINAGE STRUCTURE

NOTES:

1. GRADE AROUND TRAIL TO ENSURE POSITIVE DRAINAGE (2:1 MAX, 3:1 PREFERRED).

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONTRUCTION.

3. THE CONTRACTOR SHALL MAINTAIN 8 PARKING SPACES, AT ALL TIMES, ALONG THE SOUTH SIDE OF PARCEL #0174-15-05-003A (PIZZA HUT). THE CONTRACTOR MAY SHIFT THE AVAILABLE PARKING SPACES TO MEET THE NEEDS OF DAILY WORK OPERATIONS. THE PARKING SPACES AVAILABLE FOR PUBLIC USE SHALL CONSIST OF A COMPACTED ASPHALT SURFACE AND LINE MARKINGS SEPARATING THE PARKING SPACES. ACCESS TO THE PIZZA HUT ENTRANCE SHALL BE MAINTAINED AT ALL TIMES DURING BUSINESS HOURS. PLEASE REFERENCE THE TRANSPORTATION MANAGEMENT PLAN FOR EXCEPTIONS TO THE PARKING REQUIREMENT DURING BRIDGE ASSEMBLY.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Curb Ramp Details	2D(1)-2D(2)
Drainage Desc.	2H(1)-2H(2)
W&OD Trail Profile	4A(1)
Wiehle Ave Profile	4A(2)
Erosion & Sediment Control Plan	4B
Utility Plan	9(2)

Whitman, Requardt & Associates, LLP

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SCALE 0 25' 50'

EMERGENCY POLICE - FIRE - RESCUE 911

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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
PLAN SHEET

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

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SCALE 1"=25'
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET 4

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
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DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

W&OD TRAIL

CONSTRUCTION BASELINE

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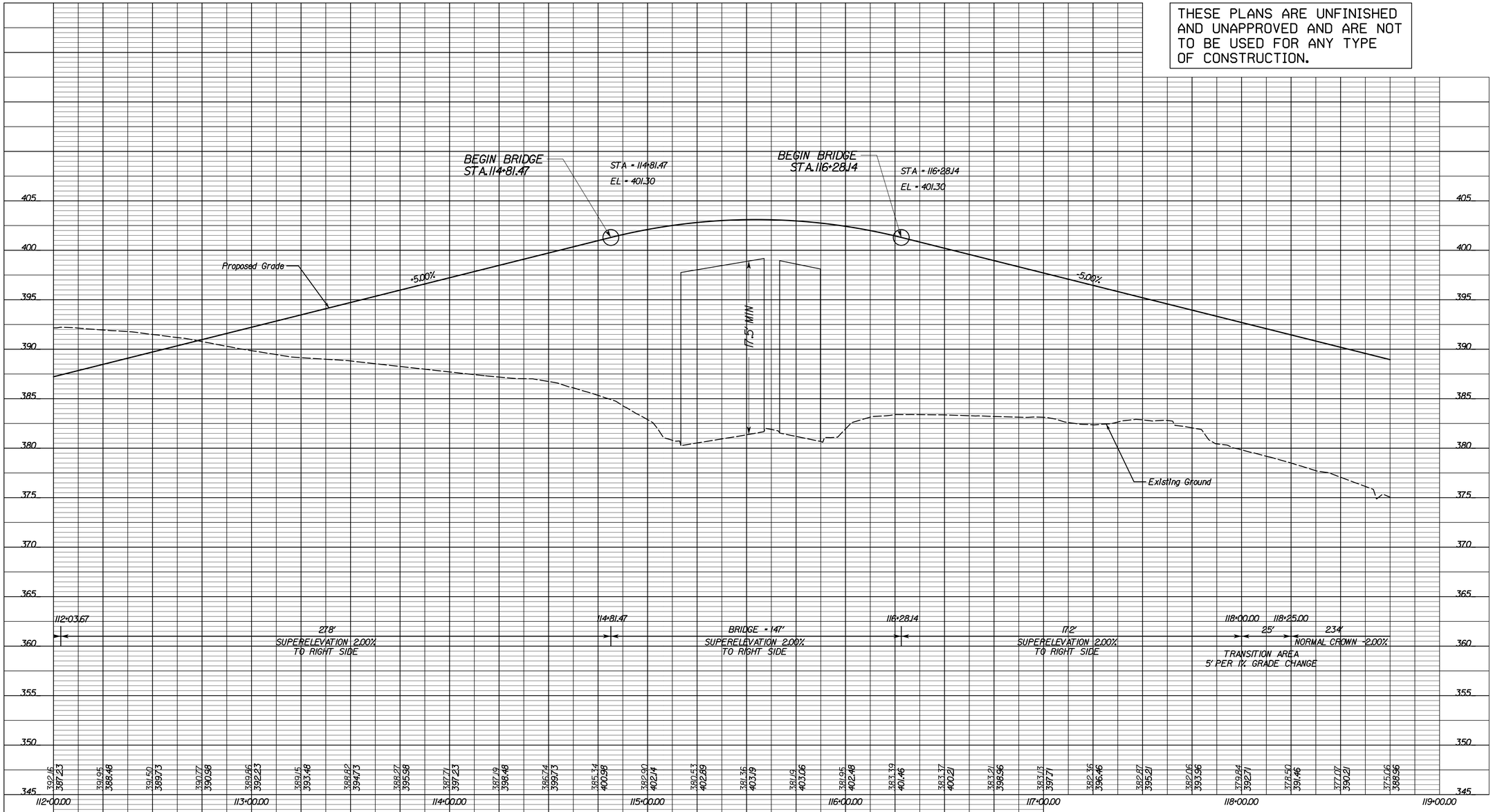

Whitman, Requardt & Associates, LLP

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WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
W&OD TRAIL PROFILE SHEET

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	SHEET
AS SHOWN		4A(1)

FUND # 500-C5000

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WIEHLE AVE (RTE 828)

CONSTRUCTION BASELINE

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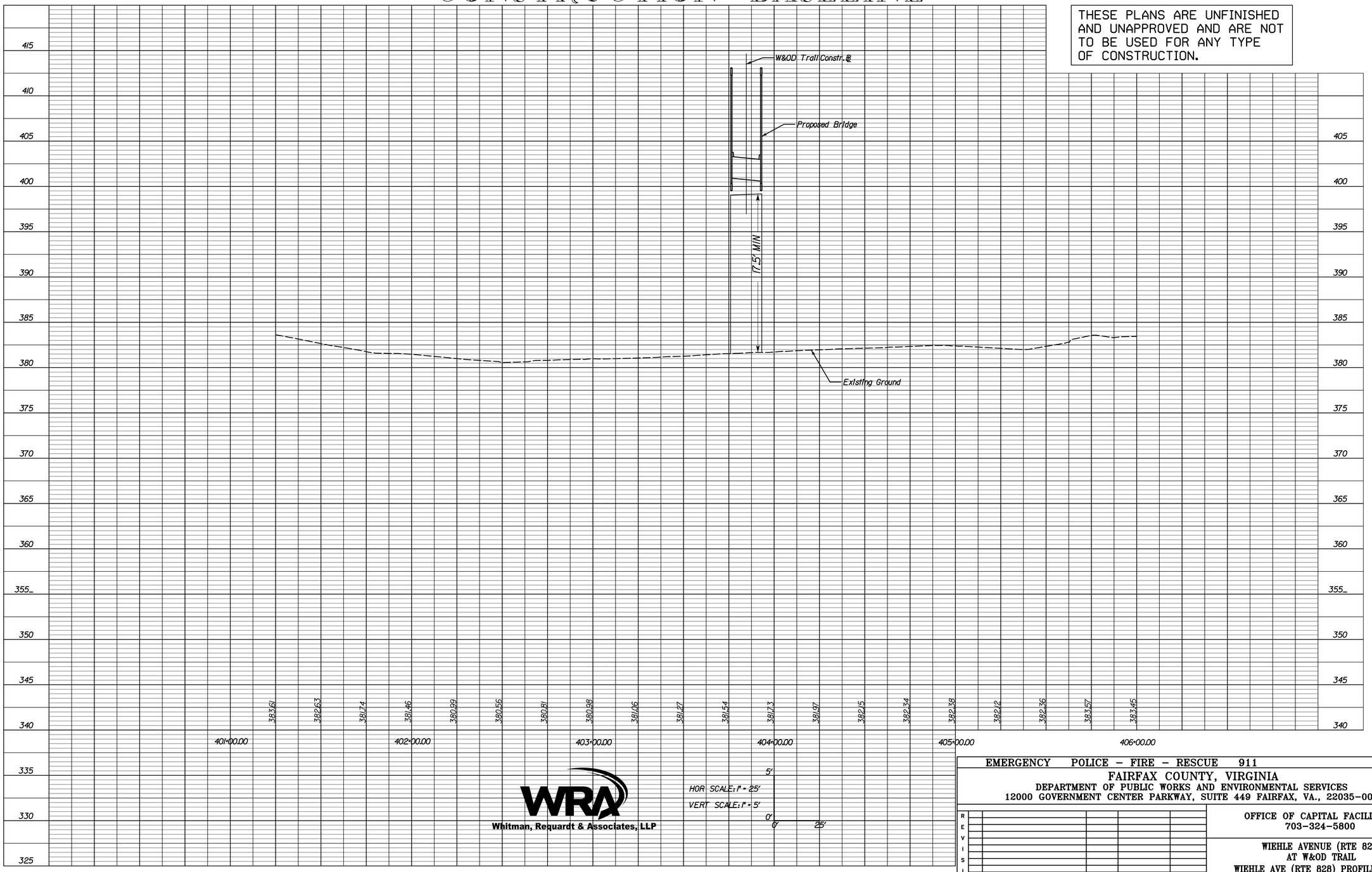

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WIEHLE AVE (RTE 828) PROFILE SHEET

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EROSION & SEDIMENT CONTROL PLAN

THE SEQUENCE OF E&S MEASURES IS GENERALLY AS FOLLOWS:

1.) INSTALL PERIMETER ESC MEASURES, INCLUDING SILT FENCE AND ROCK CHECK DAMS.

2.) PLACE INLET PROTECTION ON EXISTING STORM DRAIN SYSTEMS.

3.) INSTALL TEMPORARY AND PERMANENT PIPES AND CHANNELS USED TO CONVEY OFFSITE RUNOFF THROUGH THE CONSTRUCTION SITE.

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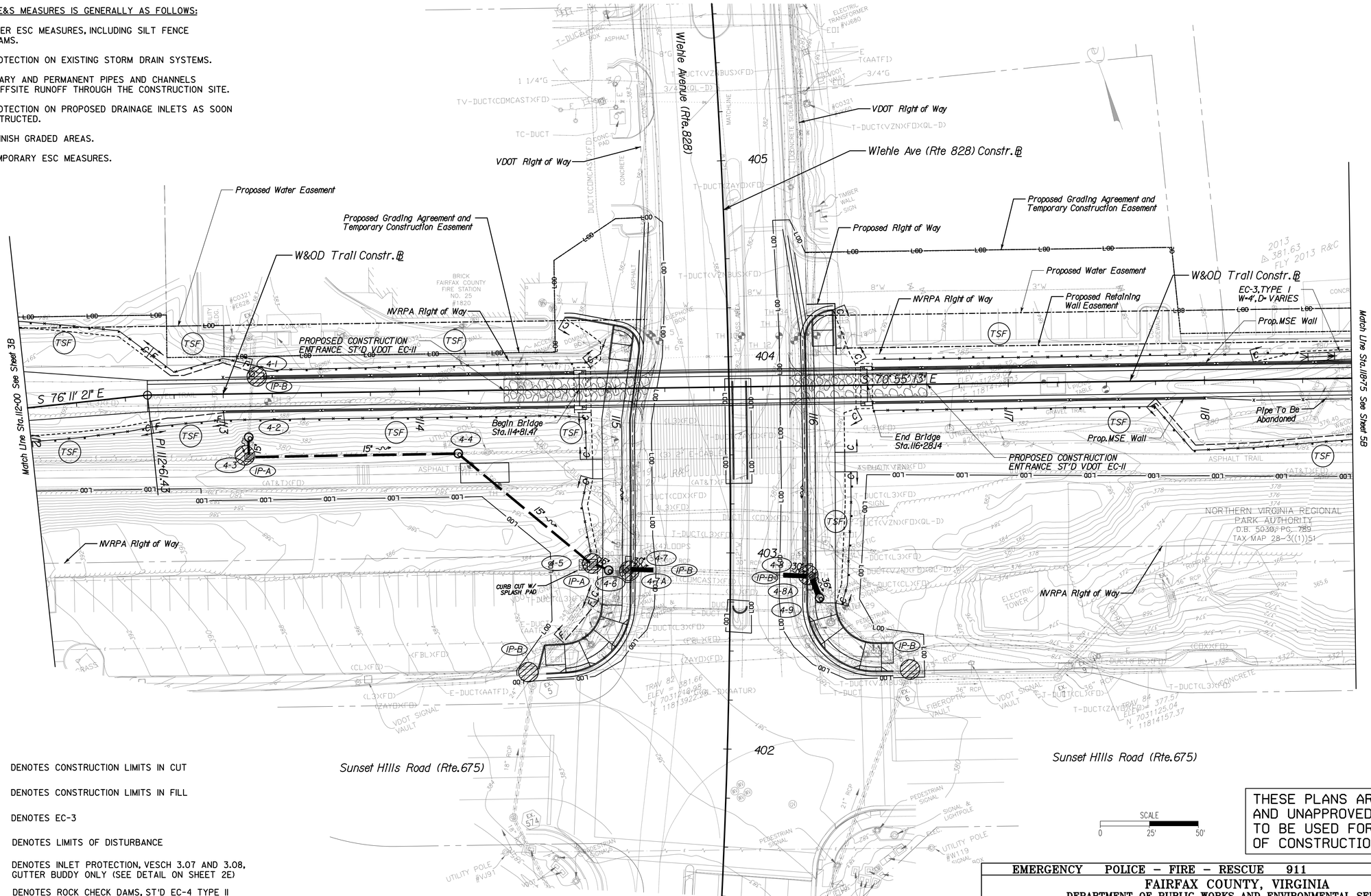

LEGEND

- DENOTES CONSTRUCTION LIMITS IN CUT
- DENOTES CONSTRUCTION LIMITS IN FILL
- DENOTES EC-3
- LOD — DENOTES LIMITS OF DISTURBANCE
- IP-A IP-B — DENOTES INLET PROTECTION, VESCH 3.07 AND 3.08, GUTTER BUDDY ONLY (SEE DETAIL ON SHEET 2E)
- RCD — DENOTES ROCK CHECK DAMS, ST'D EC-4 TYPE II
- TSF — DENOTES TEMPORARY SILT FENCE, ST'D EC-5
- CIP — DENOTES CULVERT INLET PROTECTION, ST'D EC-6 TYPE C
- DENOTES PROPOSED STAGING AREA OR CONSTRUCTION ENTRANCE ST'D VDOT EC-II

NOTES:

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Whitman, Requardt & Associates, LLP

SCALE 0 25' 50'

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WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
EROSION & SEDIMENT CONTROL PLAN

PROJECT NO: 1400102-2013

SCALE		SHEET
1"=25'	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	4B

FUND # 500-C5000

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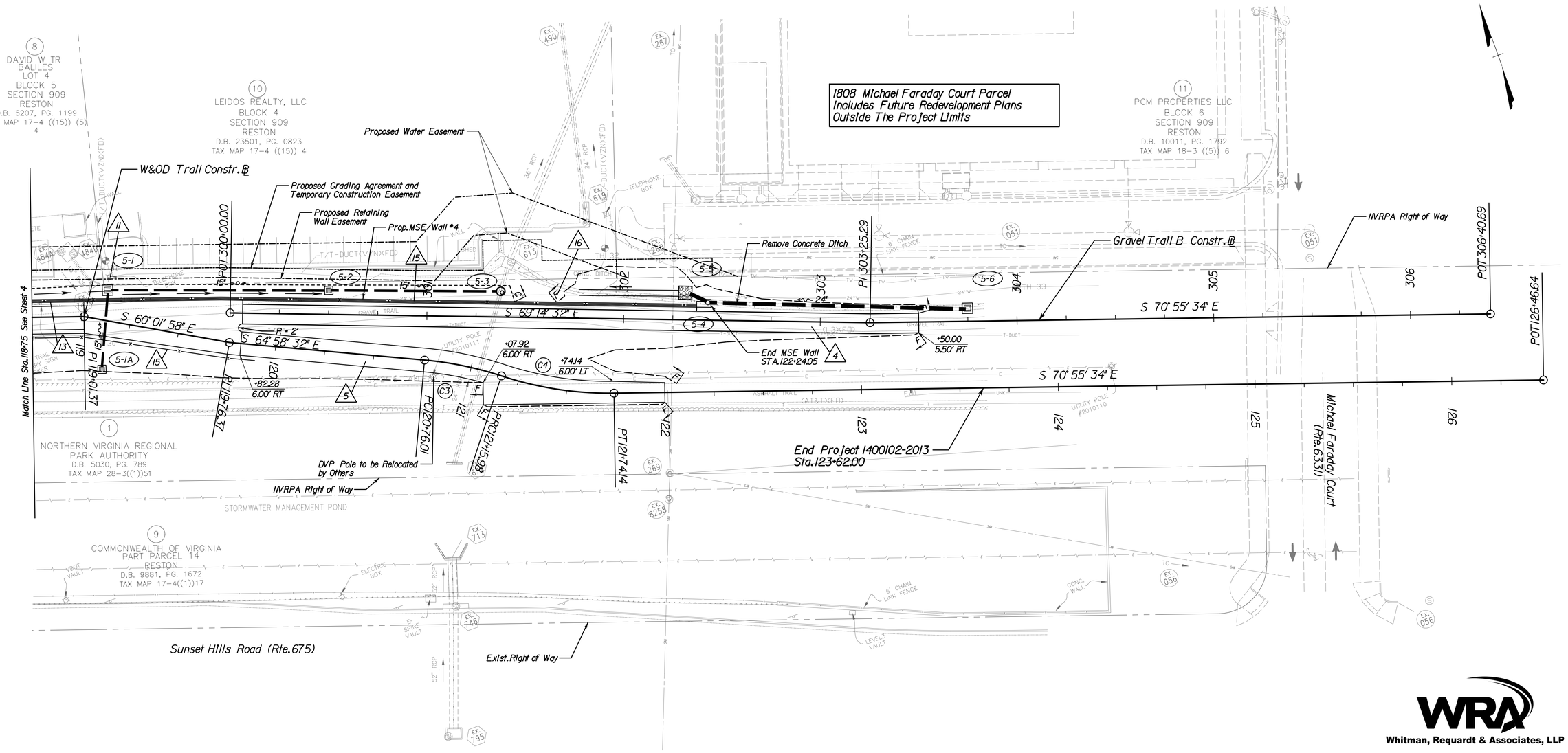

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SCALE
0 25' 50'

LEGEND

- Proposed Pavement Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- C ------ Denotes Construction Limits In Cuts
- F ---- Denotes Construction Limits In Fills
- ⟶ Denotes Proposed Graded "V" Ditch

1. ST'D CG-6 REQUIRED
2. ST'D RADIAL CG-6 REQUIRED
3. 10' WIDE CONCRETE SIDEWALK
4. 10' WIDE ASPHALT TRAIL
5. 12' WIDE ASPAHLT TRAIL
6. ST'D CG-12 TYPE B MODIFIED REQUIRED
7. ST'D CG-12 TYPE C REQUIRED
8. TIE INTO EXISTING CURB & GUTTER
9. FULL DEPTH SAWCUT
10. ST'D MS-2 REQUIRED
11. RELOCATE EXISTING UTILITY BY OTHERS
12. ST'D VDOT UD-4
13. ST'D VDOT CG-2
14. REMOVE EXISTING CURB, CURB RAMP OR SIDEWALK
15. 8' PEDESTRIAN FENCE
16. RELOCATE EXISTING UTILITY

(C3) Curve W0&D-3
PI = 120+96.08
DELTA = 13° 05' 20.81" (RT)
D = 32° 44' 26"
T = 20.08'
L = 39.98'
R = 175.00'
PC = 120+76.01
PRC = 121+15.98

(C4) Curve W0&D-4
PI = 121+45.33
DELTA = 19° 02' 22.55" (LT)
D = 32° 44' 26"
T = 29.35'
L = 58.15'
R = 175.00'
PRC = 121+15.98
PT = 121+74.14

NOTES:

1. GRADE AROUND TRAIL TO ENSURE POSITIVE DRAINAGE (2:1 MAX, 3:1 PREFERRED).

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONTRUCTION.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Drainage Desc.	2H(1)-2H(2)
W&OD Trail Profile	5A(1)
Gravel Trail B Profile	5A(2)
Erosion & Sediment Control Plan	5B
Utility Plan	9(3)

EMERGENCY POLICE – FIRE – RESCUE 911

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WIEHLE AVENUE (RTE 828)
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PLAN SHEET

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SCALE		SHEET
1"=25'	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	5

FUND # 500-C5000

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SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

W&OD TRAIL

CONSTRUCTION BASELINE

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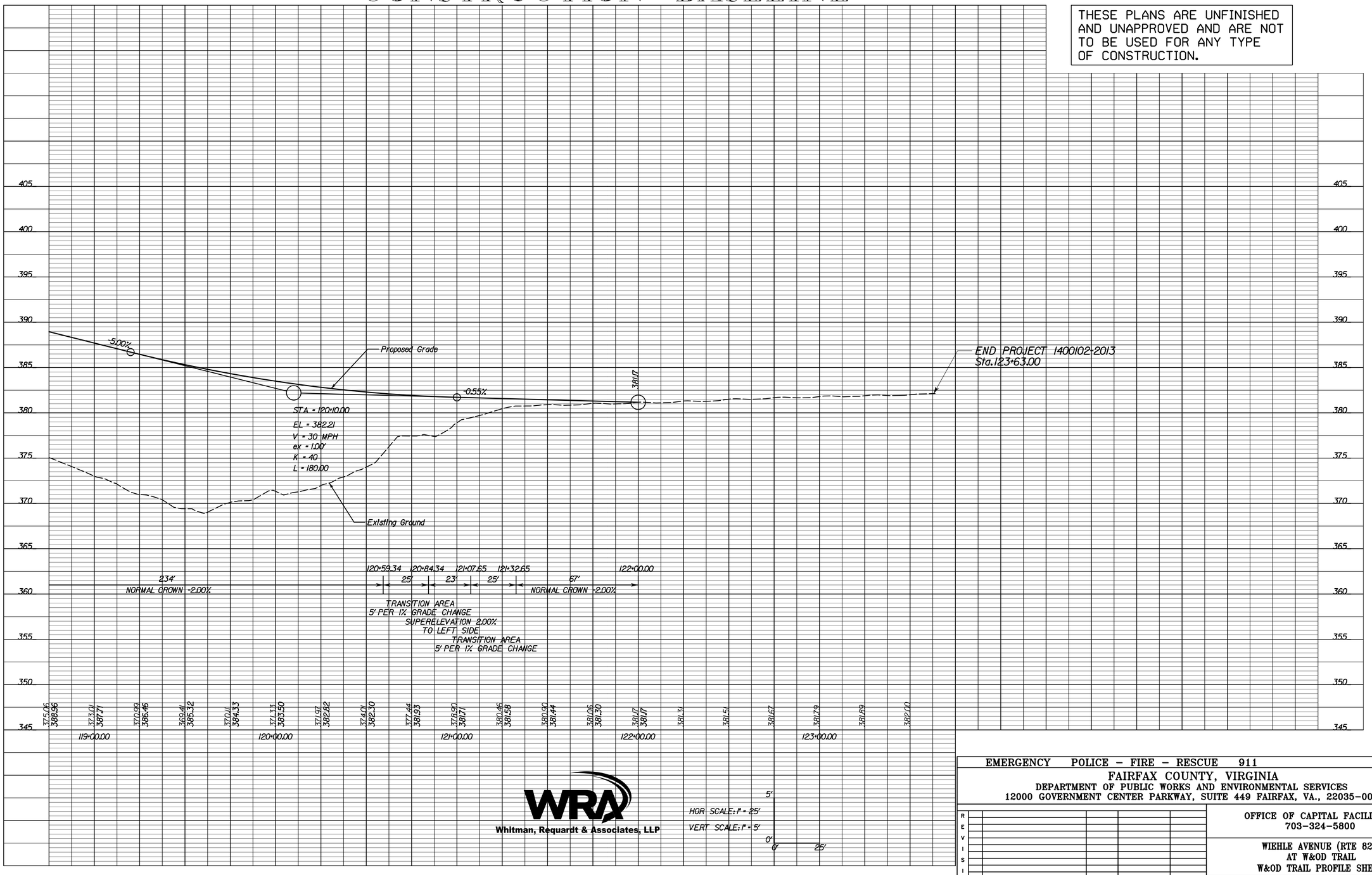

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WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
W&OD TRAIL PROFILE SHEET

PROJECT NO: 1400102-2013

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SCALE	DESIGNED: NDD	SHEET
AS SHOWN	DRAFTED: WRA CHECKED: RBH	5A(1)

FUND # 500-C5000

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SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

GRAVEL TRAIL B
CONSTRUCTION BASELINE

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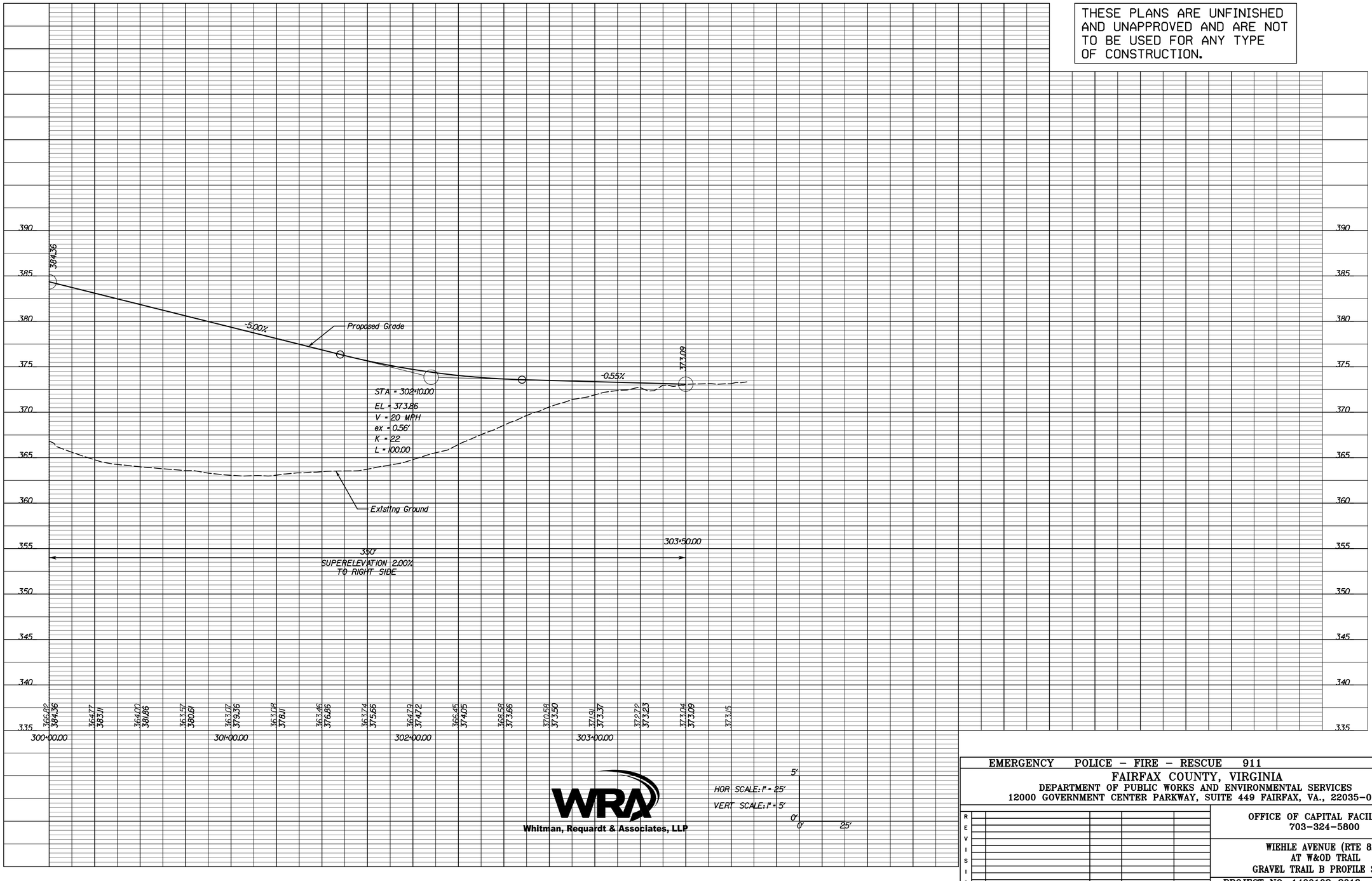


Whitman, Requardt & Associates, LLP

HOR SCALE: 1" = 25'
VERT SCALE: 1" = 5'
5'
0'
0' 25'

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
GRAVEL TRAIL B PROFILE SHEET

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

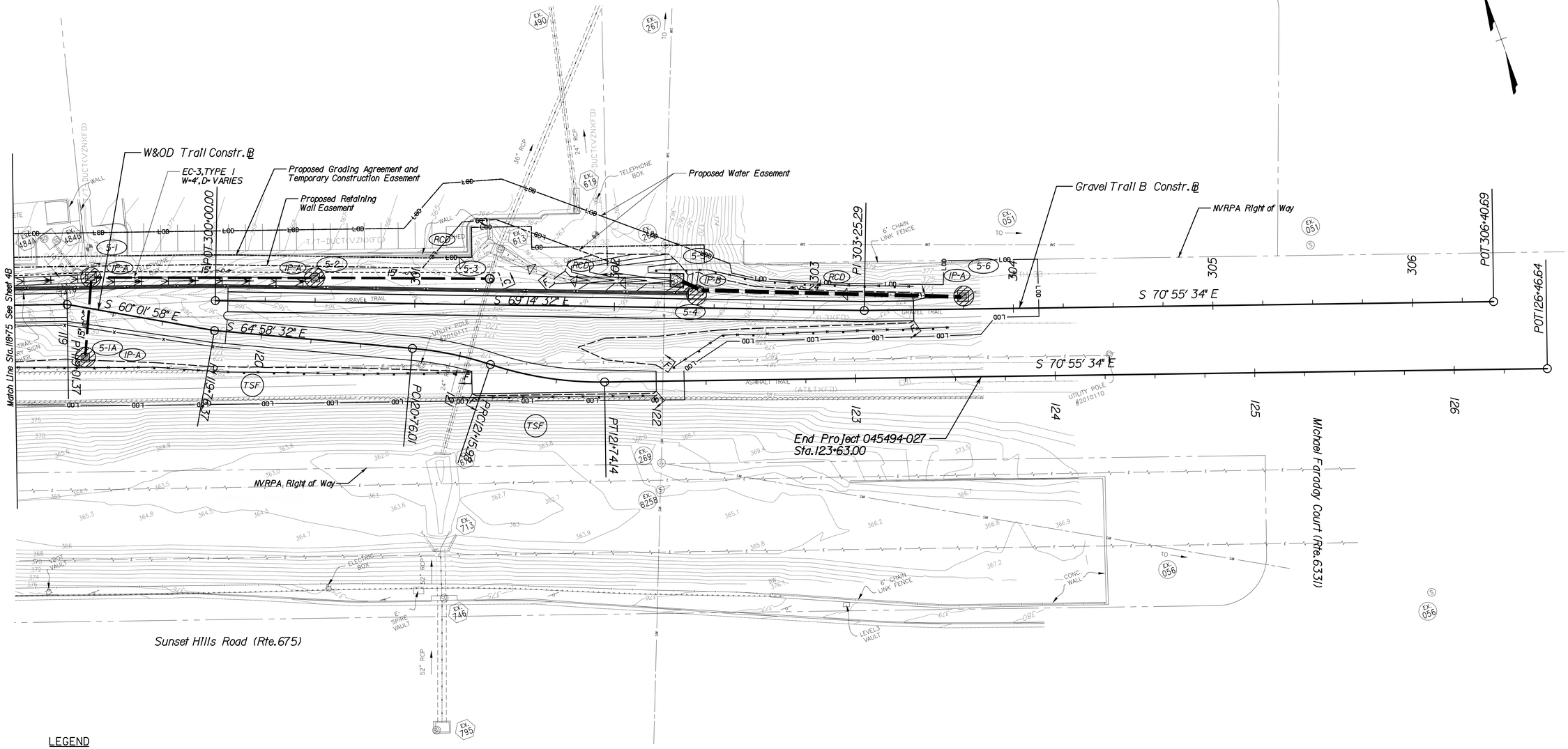
APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE: AS SHOWN
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET: 5A(2)

FUND # 500-C5000

PROJECT MANAGER_ SCOTT RUFFNER,P.E.,(703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _FAIRFAX COUNTY, NOVEMBER 28,2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23,2014

EROSION & SEDIMENT CONTROL PLAN



LEGEND

- C____ DENOTES CONSTRUCTION LIMITS IN CUT
- F___ DENOTES CONSTRUCTION LIMITS IN FILL
- DENOTES EC-3
- LOD DENOTES LIMITS OF DISTURBANCE
- IP-A, IP-B DENOTES INLET PROTECTION, VESCH 3.07 AND 3.08, GUTTER BUDDY ONLY (SEE DETAIL ON SHEET 2E)
- RCD DENOTES ROCK CHECK DAMS, ST'D EC-4 TYPE II
- TSF DENOTES TEMPORARY SILT FENCE, ST'D EC-5
- CIP DENOTES CULVERT INLET PROTECTION, ST'D EC-6 TYPE C

THE SEQUENCE OF E&S MEASURES IS GENERALLY AS FOLLOWS:

1.) INSTALL PERIMETER ESC MEASURES, INCLUDING SILT FENCE AND ROCK CHECK DAMS.

2.) PLACE INLET PROTECTION ON EXISTING STORM DRAIN SYSTEMS.

3.) INSTALL TEMPORARY AND PERMANENT PIPES AND CHANNELS USED TO CONVEY OFFSITE RUNOFF THROUGH THE CONSTRUCTION SITE.

4.) PLACE INLET PROTECTION ON PROPOSED DRAINAGE INLETS AS SOON AS THEY ARE CONSTRUCTED.

5.) STABILIZE ALL FINISH GRADED AREAS.

6.) REMOVE ALL TEMPORARY ESC MEASURES.

NOTES:

1.) THIS SHEET IS TO BE USED FOR EROSION AND SEDIMENT CONTROL MEASURES ONLY!

SCALE 0 25' 50'

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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OFFICE OF CAPITAL FACILITIES
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△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

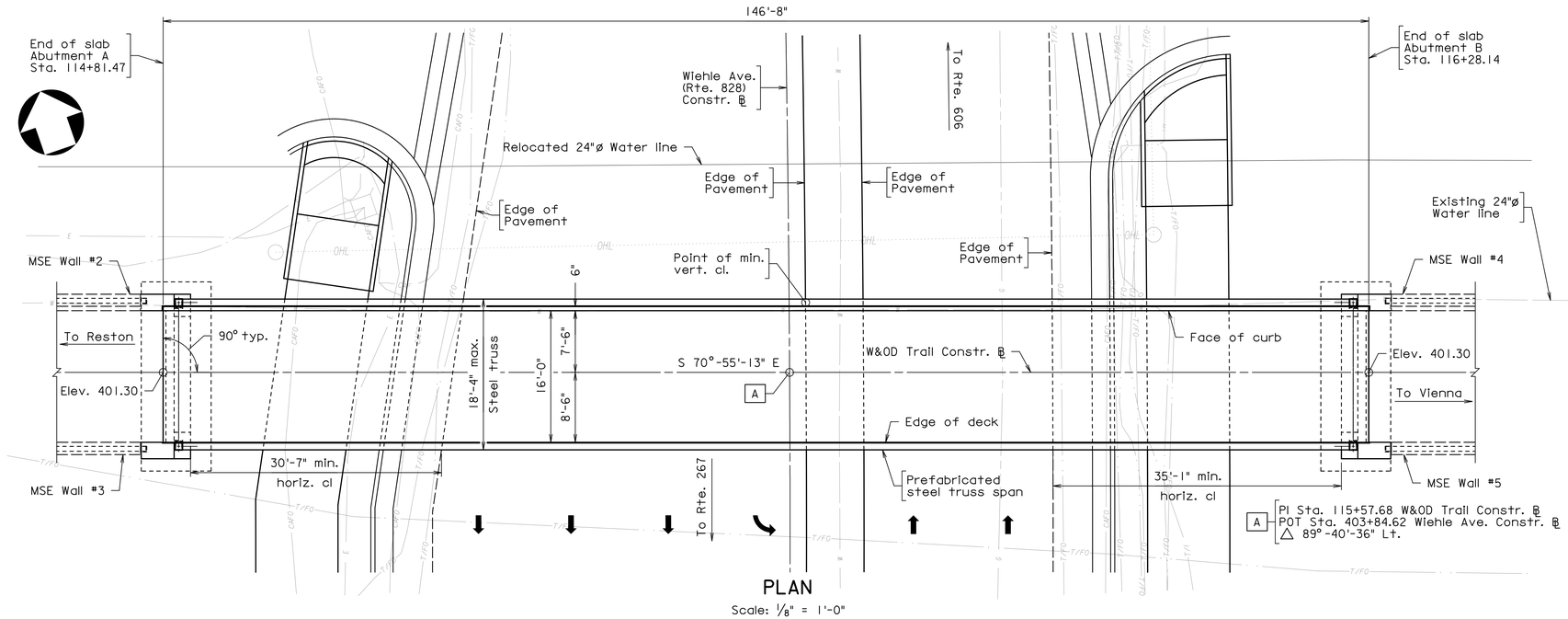
WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
EROSION & SEDIMENT CONTROL PLAN

PROJECT NO: 1400102-2013

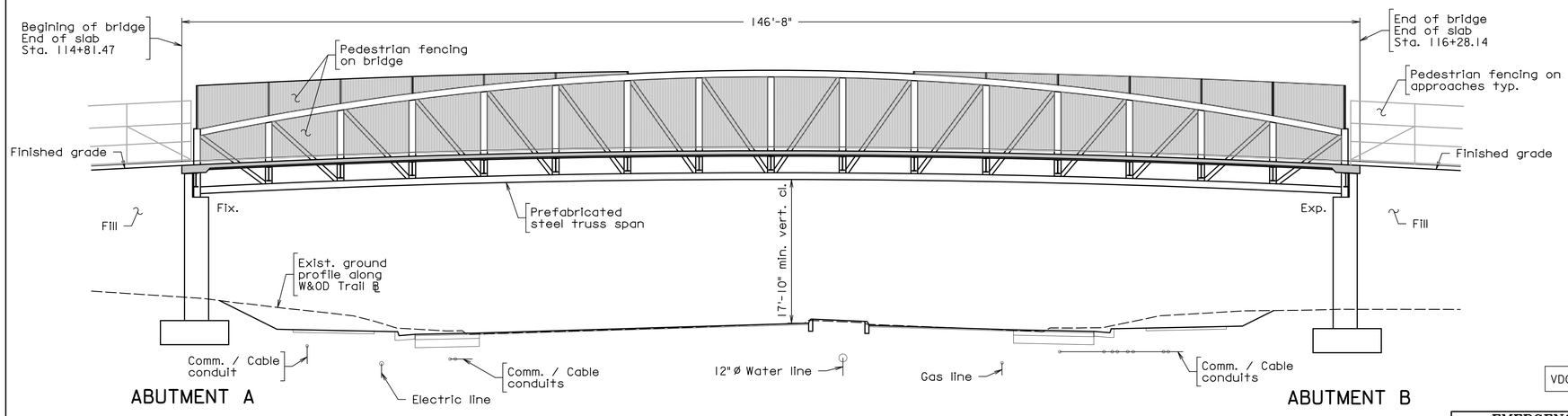
SCALE		SHEET
1"=25'	DESIGNED: NDD DRAFTED: WRA CHECKED: RBH	5B

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014



PLAN
Scale: 1/8" = 1'-0"



Locations of utilities in Developed Section are approximate. See utility relocation plans for designations and additional details.

DEVELOPED SECTION ALONG W&OD TRAIL CONSTR. ℄
Showing Truss and fencing beyond.
Scale: 1/8" = 1'-0"

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	RSTP-5A01( )	828	0828-029-248, B-601
NBIS Number:	000000000030981		UPC No.	107439
Federal Oversight Code:			FHWA Construction and Scour Code:	X932-SN

GENERAL NOTES:

Width: 16'-0" face of curb to edge of deck

Span Layout: 146'-8" simple span prefabricated steel truss span.

Capacity: 90 psf Pedestrian Live Loading or H-10 (20,000 lb) vehicle defined as a front axle load of 4,000 lbs and a rear axle of 16,000 lbs, with axle spacing of 14'-0", wheel spacing of 6'-0".

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016 and attached Special Provisions

Virginia Uniform Statewide Building Code, latest edition and applicable local ordinances as determined by the County of Fairfax Building Official.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016, including all current revisions.

Design: AASHTO LRFD Bridge Design Specifications 7th Edition, 2014; and VDOT Modifications.

AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition 2009.

AISC Steel Construction Manual, 2011 14th Edition.

These plans are incomplete unless accompanied by the Specifications and Special Provisions included in the contract documents.

The Contractor shall refer to the trail plans and the Specification for general project requirements and erosion and sediment control measures.

Contractor shall be responsible for protecting existing utilities and shall repair or replace, at no additional cost, if damaged, as directed by the County.

For W&OD Trail Constr. Baseline alignment data and information, see trail sheets.

The Contractor shall be responsible for obtaining all necessary permits from the County before beginning construction.

The Contractor shall field verify all dimensions, locations, and elevations of existing structures and utilities shown on the current drawings. All discrepancies between field conditions and these plans shall be brought to the attention of the project manager for the County before proceeding with work that is directly affected by the discrepancy.

Any deviations from the approved plans and/or Specifications must be approved by the Engineer/Owner in writing prior to the start of the affected portion of work.

All excavation, temporary support, dewatering and backfilling shall be in accordance with Section 401 of the Specifications. All excavations shall be clean and dry prior to the placement of any concrete.

All formwork shall be in accordance with Section 404 of the VDOT Specifications.

The Contractor shall refer to the plans herein for the design, fabrication and installation requirements of the prefabricated steel truss spans.

Concrete in superstructure shall be Low Shrinkage Class A4 Modified in accordance with section 217.12(a); in abutments Class A3.

Abutment concrete shall be finished in accordance with Section 404.07 of the VDOT Specifications, Class 2 rubbed finished, except for bridge seat bearing areas.

For continuation of General notes, see sheet 6(2).

VDOT please provide

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
TITLE SHEET: PLAN, DEVELOPED SECTION AND GENERAL NOTES

PROJECT NO: 1400102-2013

PLAN NO. XXX-XX

DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB

SHEET 6(1)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	RSTP-5A01( )	828	0828-029-248, B-601

ESTIMATED QUANTITIES - SUBSTRUCTURE ONLY

		Concrete Class A3 CY	Corrosion Resistant Reinf. Steel, Class I LB	Reinforcing Steel LB	Struct. Excav. CY ⊗	Retaining Structure SF	Geo-composite Wall Drain SY	Pipe Underdrain 6" LF	Pedestrian Fence 8' LF
Abutment A	Neat	43.4	4,000	——	——	3,872	27	25	499
	Footing	21.6	——	1,800	67	——	——	——	——
Abutment B	Neat	48.1	4,200	——	——	12,019	28	25	751
	Footing	21.6	——	1,800	61	——	——	——	——
Totals		134.7	8,200	3,600	128	15,891	55	50	1,250

⊗ Denotes items to be paid for on the basis of plan quantities in accordance with current VDOT Road and Bridge Specifications.

LUMP SUM BID ITEMS

Mobilization	LS
Construction Surveying	LS
Procure Prefabricated Steel Truss	LS
Install Prefabricated Steel Truss	LS
Architectural Treatment	LS

ESTIMATED QUANTITIES - SUPERSTRUCTURE ONLY

Item	Units	Quantity
Concrete Low shrinkage Class A4 Mod.	CY	63.0
Corrosion Resistant Reinf. Steel, ⊗ Class I	LB	9,500

⊗ Denotes items to be paid for on the basis of plan quantities in accordance with current VDOT Road and Bridge Specifications.

INDEX OF SHEETS

GENERAL NOTES CONTINUED:

Bridge seat bearing areas shall be installed level in areas of bearing according to dimensions provided by bridge manufacturer or the plans herein with the remainder of the seat installed with a ½" wash according to details herein, see Section 404.06 of the VDOT Specifications for additional requirements.

All exposed concrete edges shall be chamfered ¾" unless otherwise noted.

Deformed reinforcing bars shall conform to ASTM A615, Grade 60. All reinforcing bar dimensions on the detailed drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.

All reinforcing steel shall be deformed and shall conform to ASTM A615, Grade 60 except for reinforcing steels noted as CRR (corrosion resistant reinforcing) which shall conform to Section 223 of the Specifications. All reinforcing bar dimensions on the detailed drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.

Corrosion resistant reinforcing (CRR) steels shall conform to one or more of the three Classes listed in Section 223 of the Specifications. The Class(es) of CRR steel(s) required on this project is/are noted on the plan sheets and in the reinforcing steel schedule. Corrosion Resistant Reinforcing Steel, Class II or Class III may be substituted for Class I. Corrosion Resistant Reinforcing Steel, Class III, may be substituted for Class II.

Footings for abutments shall bear on firm material. For bearing requirements, see the Spread Footing Data Table on sheet 6(3).

The Geotechnical Engineer of Record shall inspect all footing subgrades and certify that the exposed bearing material meets design requirements. If unsuitable material is encountered, Contractor shall overexcavate as directed by the Geotechnical Engineer and replace with unreinforced Class C1 concrete.

B.M.:

Rev. No.	Sheets Revised	Date

TABLE OF REVISIONS

PREFINAL PLANS

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE - FIRE - RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
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OFFICE OF CAPITAL FACILITIES
703-324-5800

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

ESTIMATED QUANTITIES AND INDEX OF SHEETS

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(2)

FUND # 500-C5000

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PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601

Notes:

This substructure layout is to be used only for the purpose of locating the footings of the abutments.

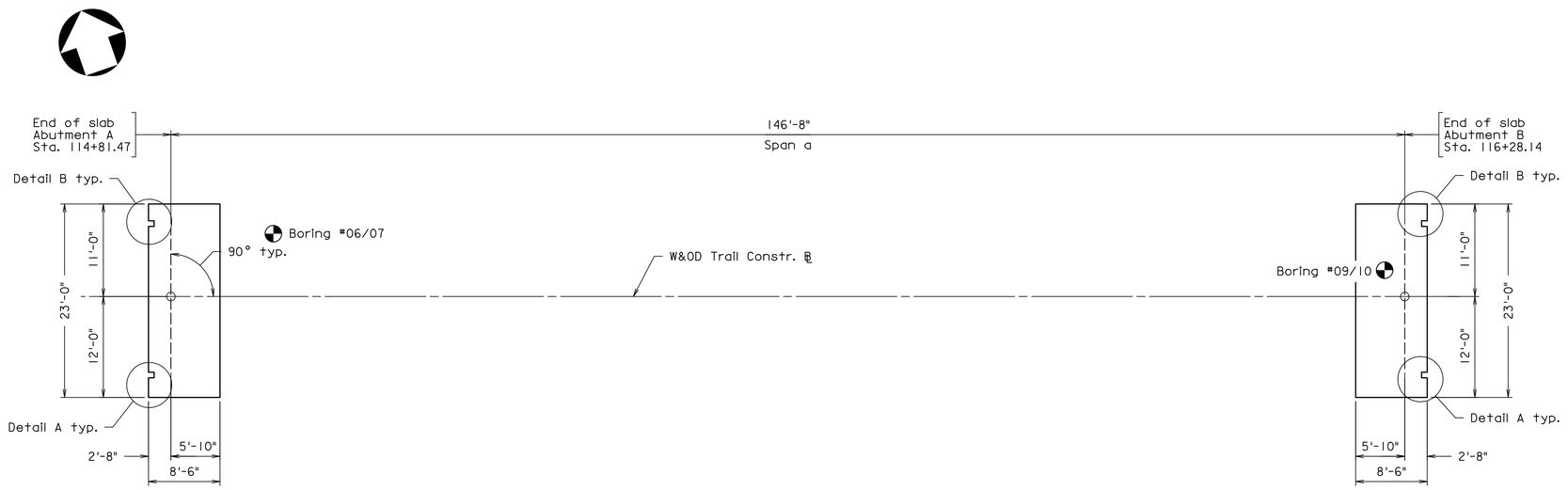
For abutment details, see sheets 6(4) through 6(7).

For Engineering Geology, see sheets 6(17) through 6(22).

For MSE walls, see sheets 6(23) through 6(29).

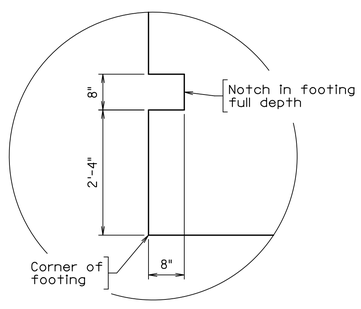
Legend:

Indicates boring location



SUBSTRUCTURE LAYOUT

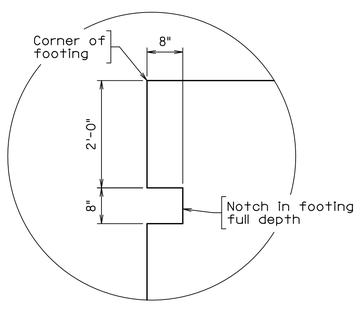
Scale: 1/8" = 1'-0"



DETAIL A

Abut. A shown, Abut. B opposite hand

Scale: 3/4" = 1'-0"



DETAIL B

Abut. A shown, Abut. B opposite hand

Scale: 3/4" = 1'-0"

SPREAD FOOTING DATA TABLE

Substructure Unit	SERVICE		STRENGTH	
	Nominal Bearing Resistance (tsf)	Tolerable Settlement (Inches)	Nominal Bearing Resistance (tsf)	Factored Bearing Resistance (tsf)
Abutment A	3.0	1.0	8.3	3.7
Abutment B	3.0	1.0	8.3	3.7

The Service Limit State controls the footing design.

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

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WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

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APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

SUBSTRUCTURE LAYOUT

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM	SHEET
XXX-XX	DRAFTED: CRR	6(3)
	CHECKED: TAB	

FUND # 500-C5000

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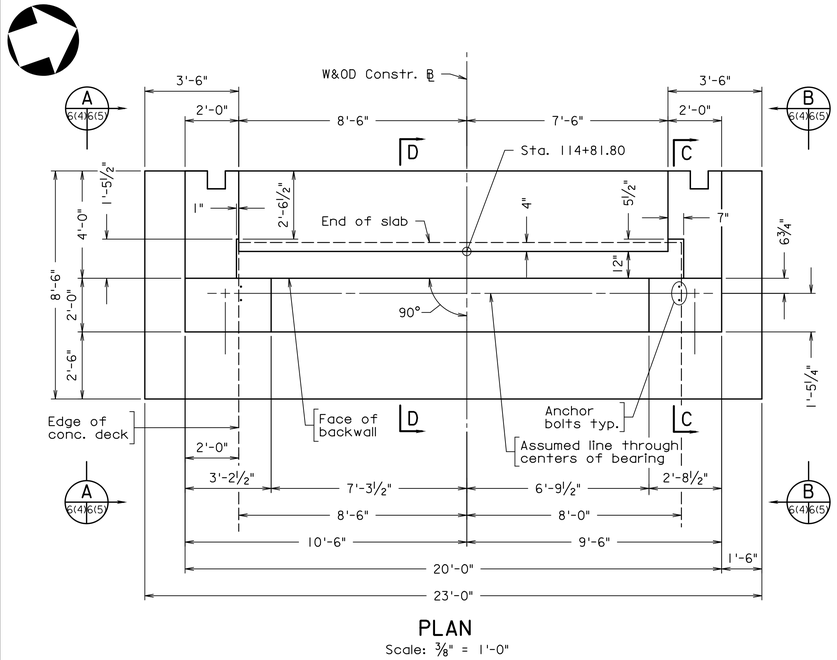
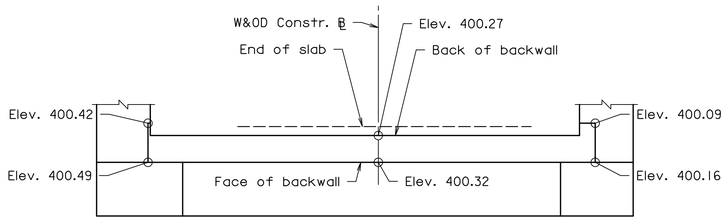
PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.,(703)361-6005 December 23,2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601



PLAN
Scale: ⅜" = 1'-0"



TOP OF BACKWALL ELEVATIONS
Scale: ⅜" = 1'-0"

Notes:

Tie strip length and spacing to be provided by MSE Wall fabricator to resist a design lateral force of 2.2 kips per linear foot of abutment for Tie Strip Line 1 and 2.4 kips per linear foot of abutment for Tie Strip Line 2. Tie strip lines shall be located 1'-9" and 4'-9" above bottom of footing (+/- 3") for Tie Strip Lines 1 and 2 respectively.

Top of backwall below deck slab extension shall be finshed to match local grade profile.

For Footing plan, see sheet 6(5).

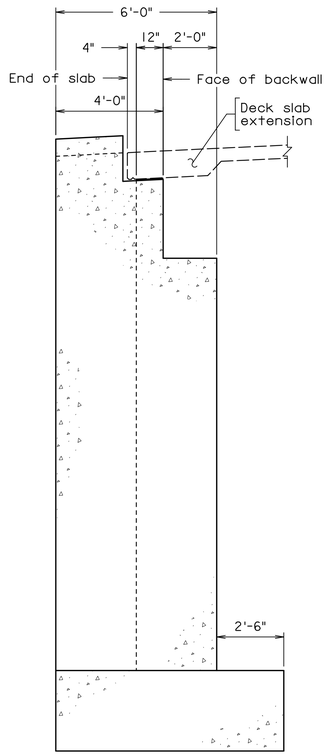
For wingwall details, see sheet 6(5).

A 1" preformed joint filler shall be placed vertically between deck slab extension and wingwall.

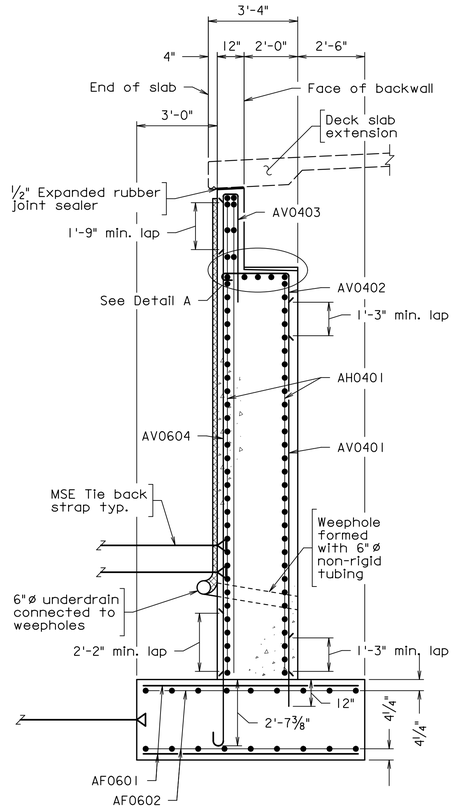
The ½" expanded rubber joint filler shall extend the full length of the deck slab extension on top of the backwall.

The cost of preformed and expanded rubber joint fillers shall be incidental to Class A3 concrete.

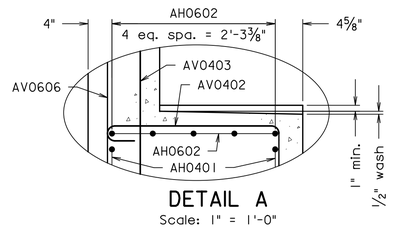
For architectural treatment, see sheet 6(15).



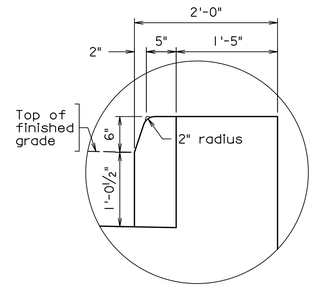
SECTION C-C
Scale: ⅜" = 1'-0"



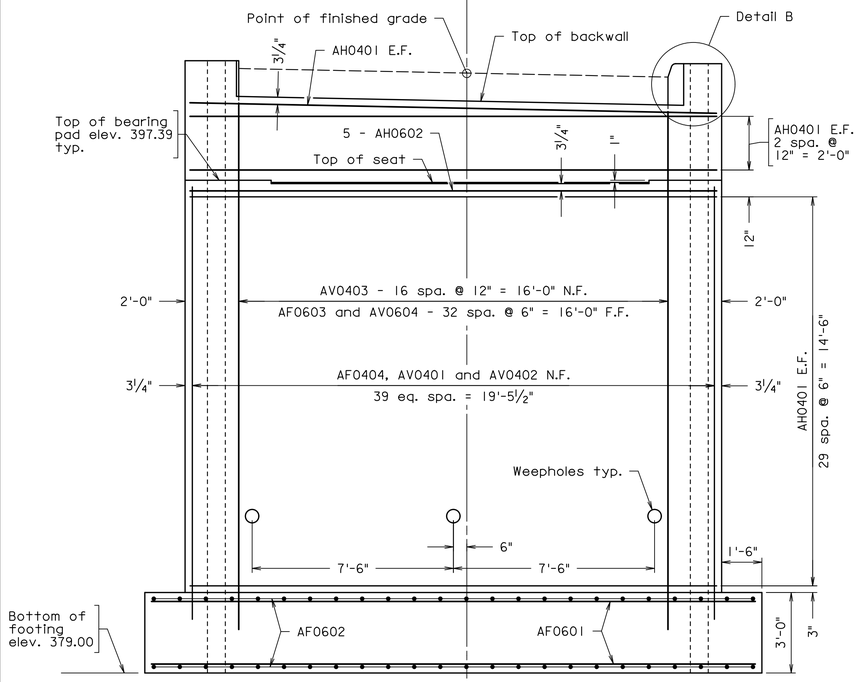
SECTION D-D
Scale: ⅜" = 1'-0"



DETAIL A
Scale: 1" = 1'-0"



DETAIL B
Scale: 1" = 1'-0"



ELEVATION
Scale: ⅜" = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WHEHLE AVENUE (RTE 828) AT W&OD TRAIL

ABUTMENT A PLAN & ELEVATION

PROJECT NO: 1400102-2013

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO. XXX-XX

DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB

SHEET 6(4)

FUND # 500-C5000

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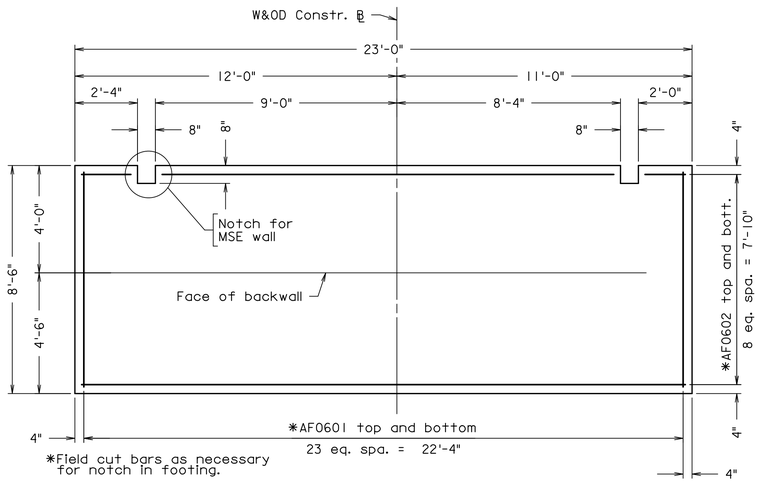
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.,(703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601

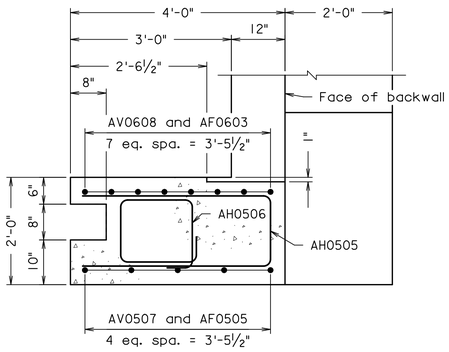
Notes:

For abutment notes, see sheet 6(4).

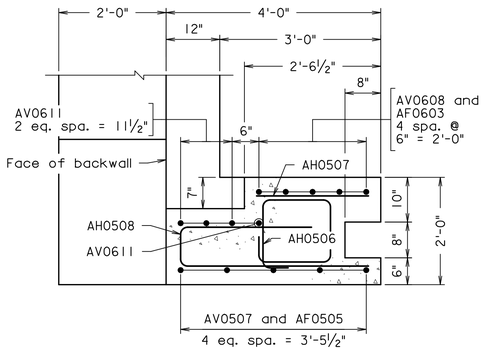
For Substructure Layout, see sheet 6(3).



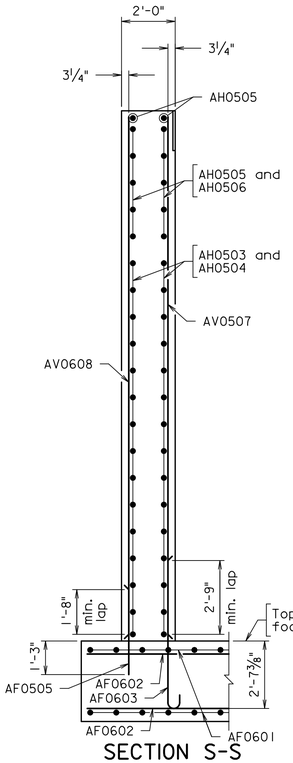
FOOTING PLAN



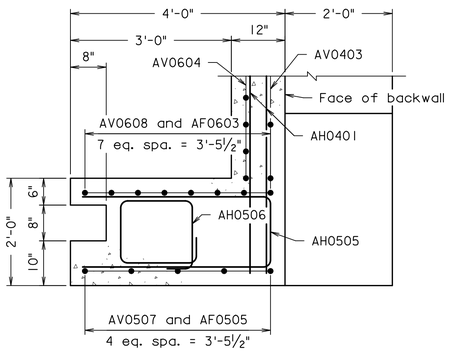
SECTION G-G



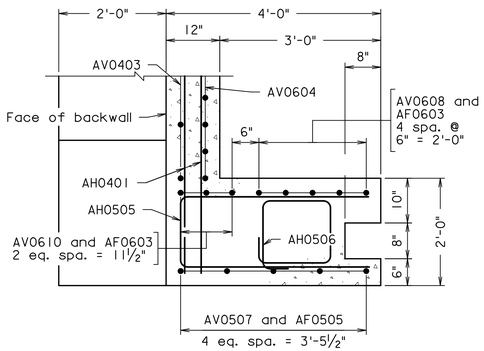
SECTION R-R



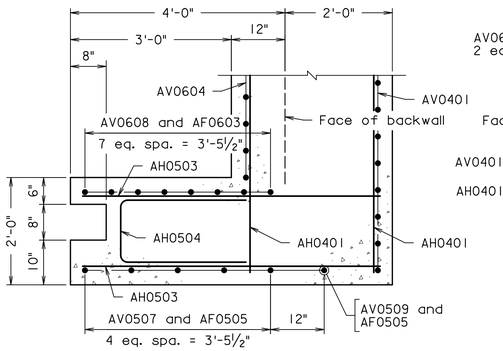
SECTION S-S



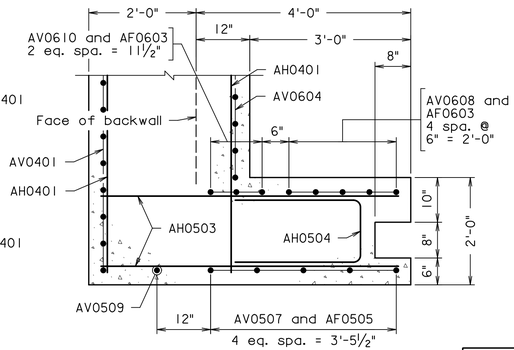
SECTION F-F



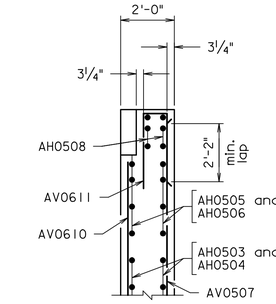
SECTION Q-Q



SECTION E-E

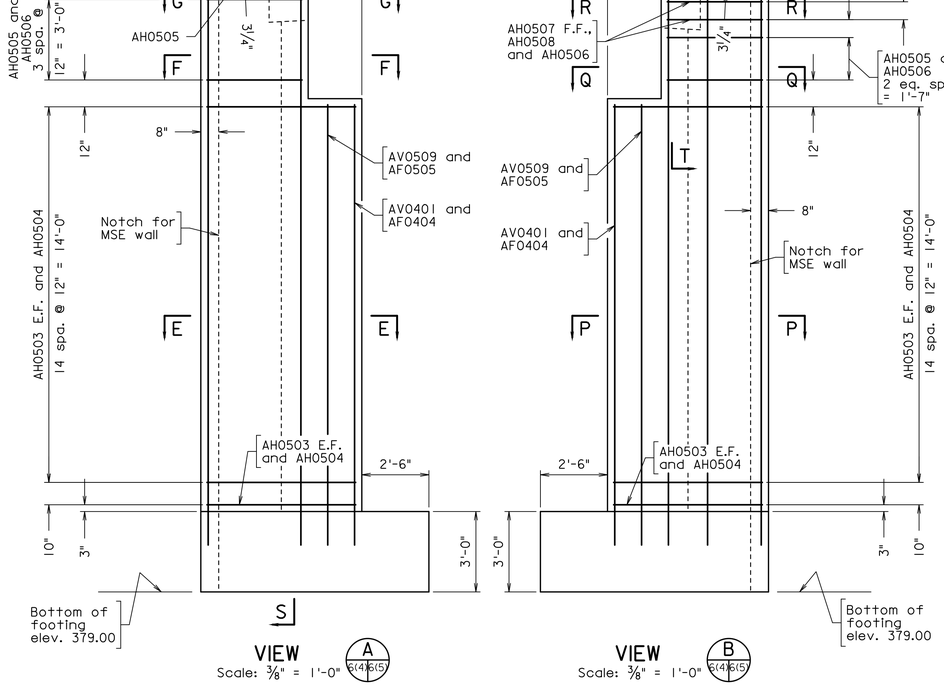


SECTION P-P



SECTION T-T

For additional details see Section S-S.



PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

ABUTMENT A FOOTING PLAN & DETAILS

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(5)

FUND # 500-C5000

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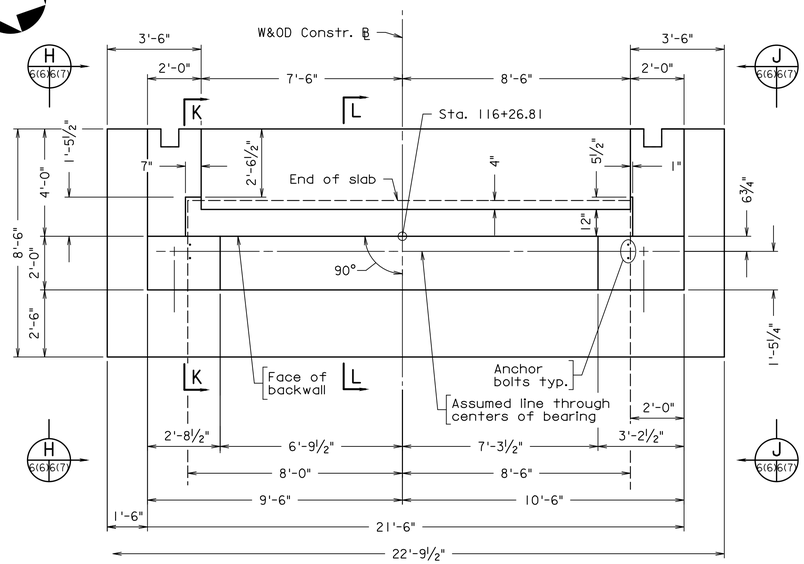
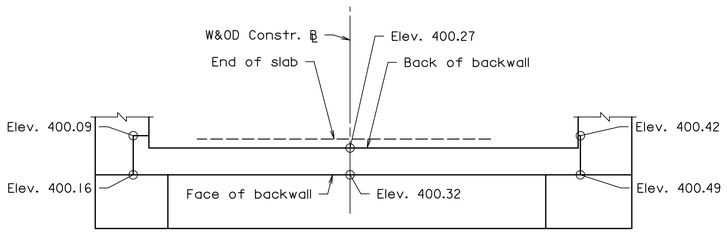
PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.(703)361-6005 December 23,2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601



PLAN
Scale: ⅜" = 1'-0"



TOP OF BACKWALL ELEVATIONS
Scale: ⅜" = 1'-0"

Notes:

Tie strip length and spacing to be provided by MSE Wall fabricator to resist a design lateral force of 2.2 kips per linear foot of abutment for Tie Strip Line 1 and 2.4 kips per linear foot of abutment for Tie Strip Line 2. Tie strip lines shall be located 1'-9" and 4'-9" above bottom of footing (+/- 3") for Tie Strip Lines 1 and 2 respectively.

Top of backwall below deck slab extension shall be finshed to match local grade profile.

For Footing plan, see sheet 6(7).

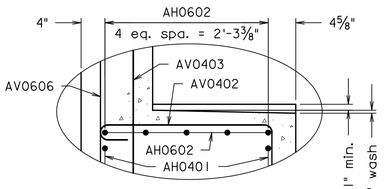
For wingwall details, see sheet 6(7).

A 1" preformed joint filler shall be placed vertically between deck slab extension and wingwall.

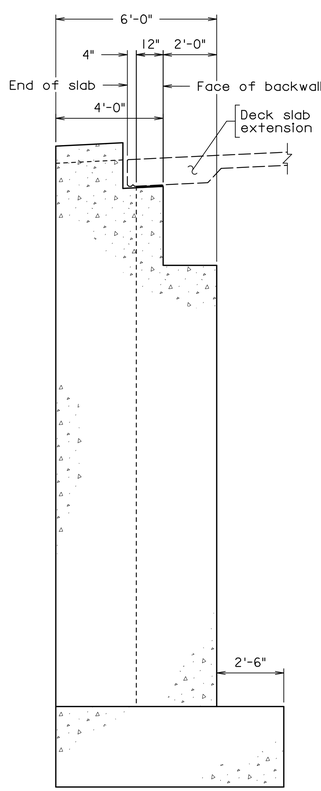
The ½" expanded rubber joint filler shall extend the full length of the deck slab extension.

The cost of preformed and expanded rubber joint fillers shall be incidental to Class A3 concrete.

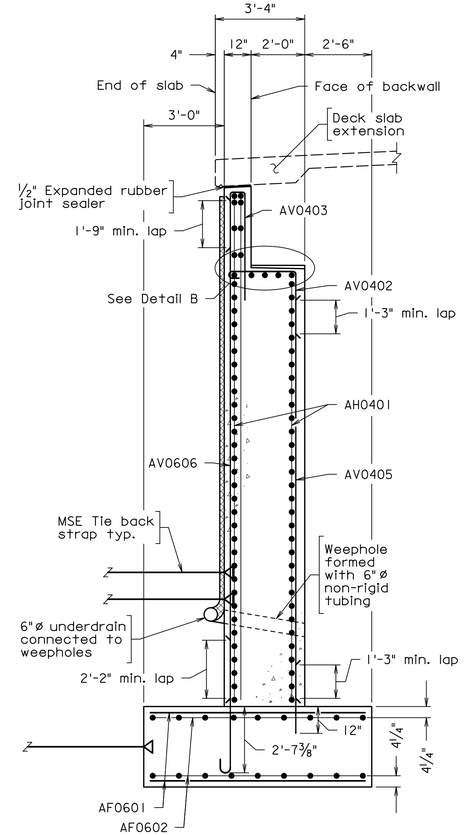
For architecural treatment, see sheet 6(15).



DETAIL B
Scale: 1" = 1'-0"



SECTION K-K
Scale: ⅜" = 1'-0"



SECTION L-L
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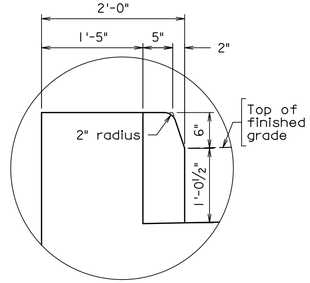
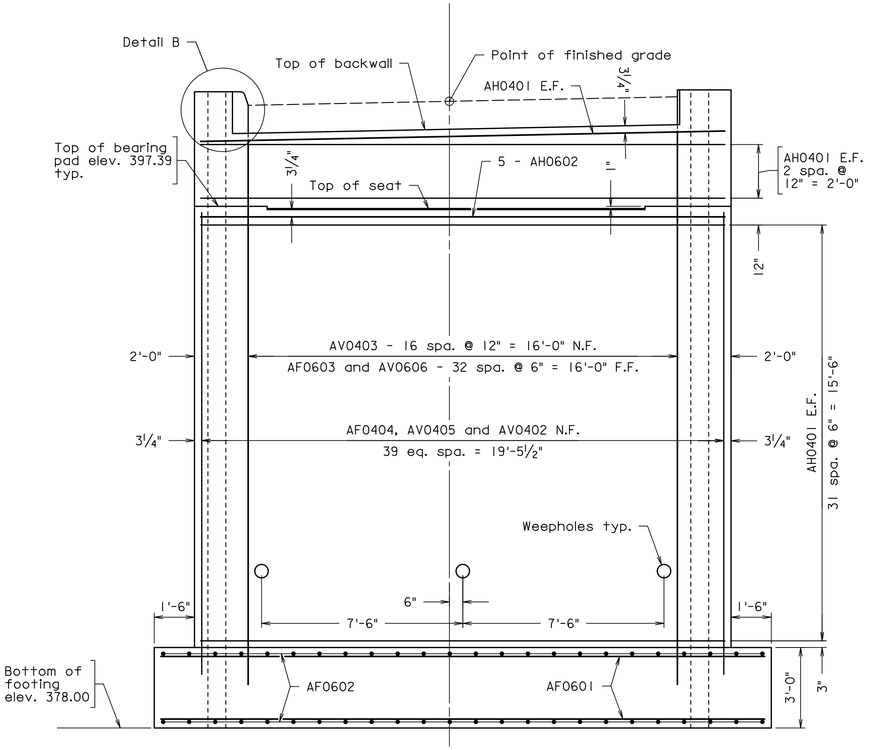


DETAIL B
Scale: 1" = 1'-0"



ELEVATION
Scale: ⅜" = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

ABUTMENT B PLAN & ELEVATION

PROJECT NO: 1400102-2013

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO. XXX-XX

DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB

SHEET 6(6)

FUND # 500-C5000

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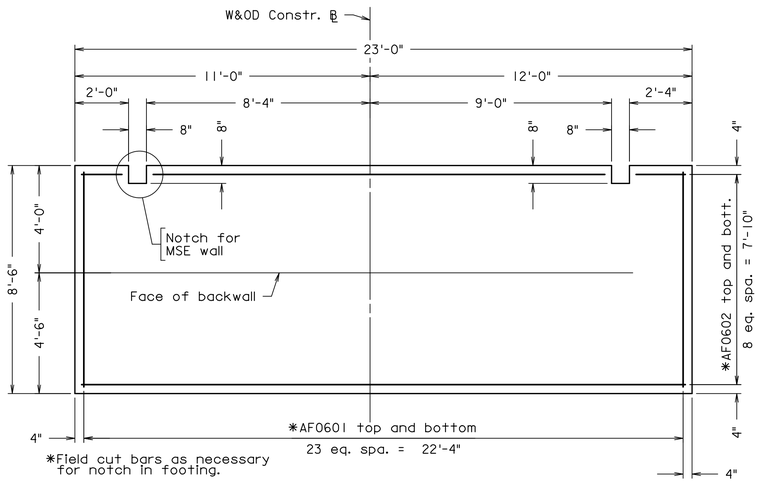
PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703) 877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.,(703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601

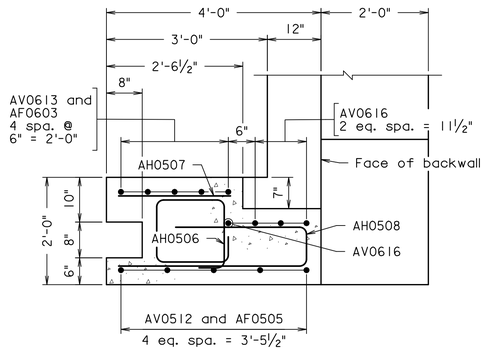
Notes:

For abutment notes, see sheet 6(6).

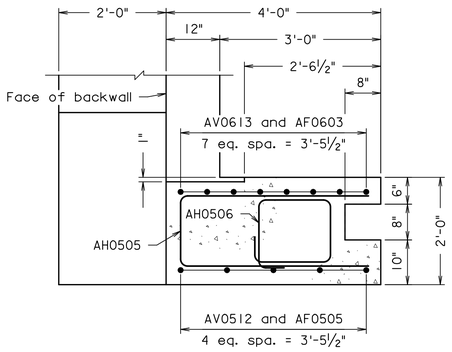
For Substructure Layout, see sheet 6(3).



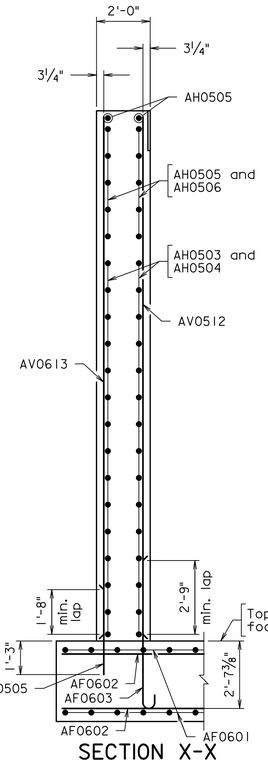
FOOTING PLAN



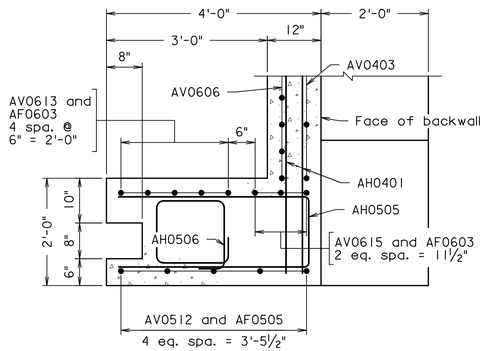
SECTION 0-0



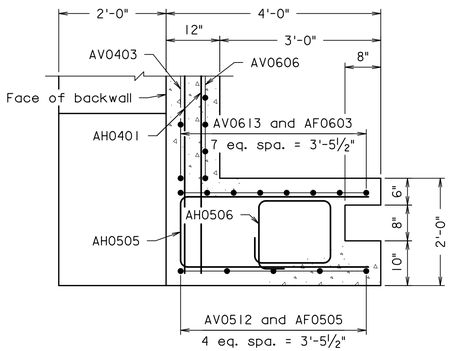
SECTION U-U



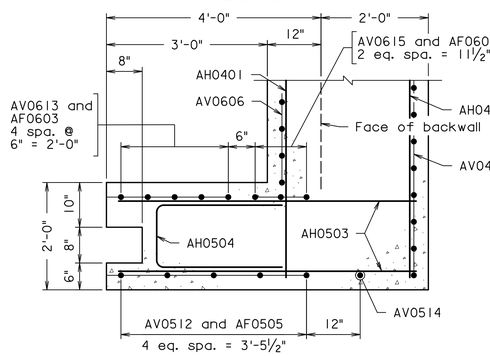
SECTION X-X



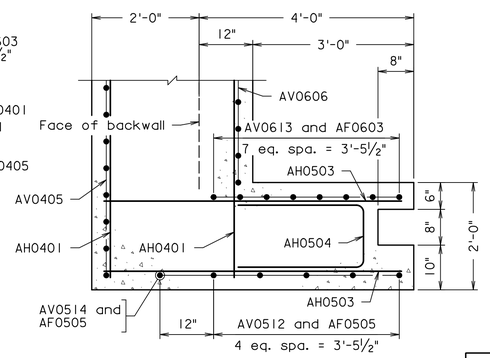
SECTION N-N



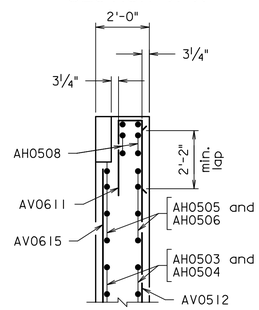
SECTION T-T



SECTION M-M

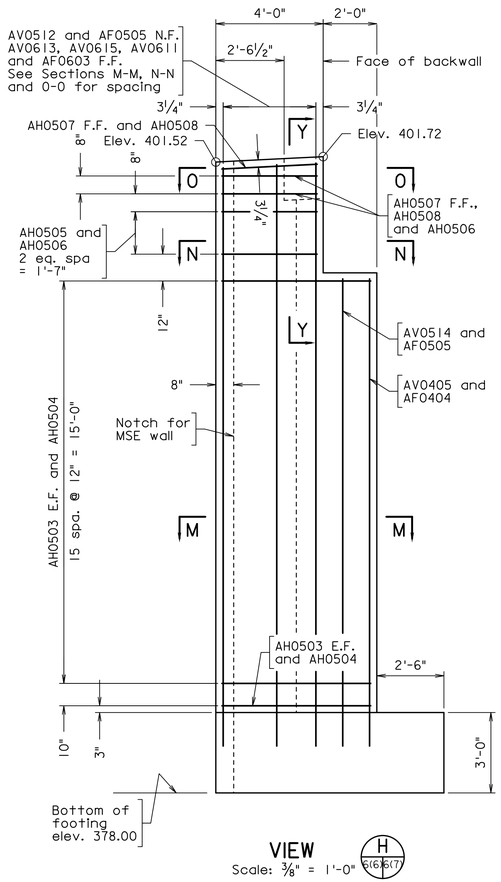


SECTION S-S

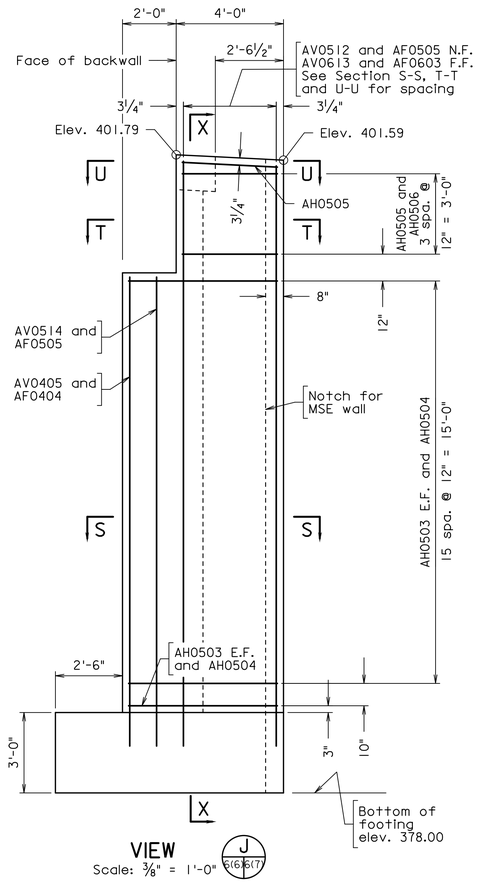


SECTION Y-Y

For additional details see Section X-X.



VIEW H (6(6)6(7)) Scale: 3/8" = 1'-0"



VIEW J (6(6)6(7)) Scale: 3/8" = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

ABUTMENT B FOOTING PLAN & DETAILS

PROJECT NO: 1400102-2013

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO.	DESIGNED: JRM	SHEET
XXX-XX	DRAFTED: CRR	6(7)
	CHECKED: TAB	

FUND # 500-C5000

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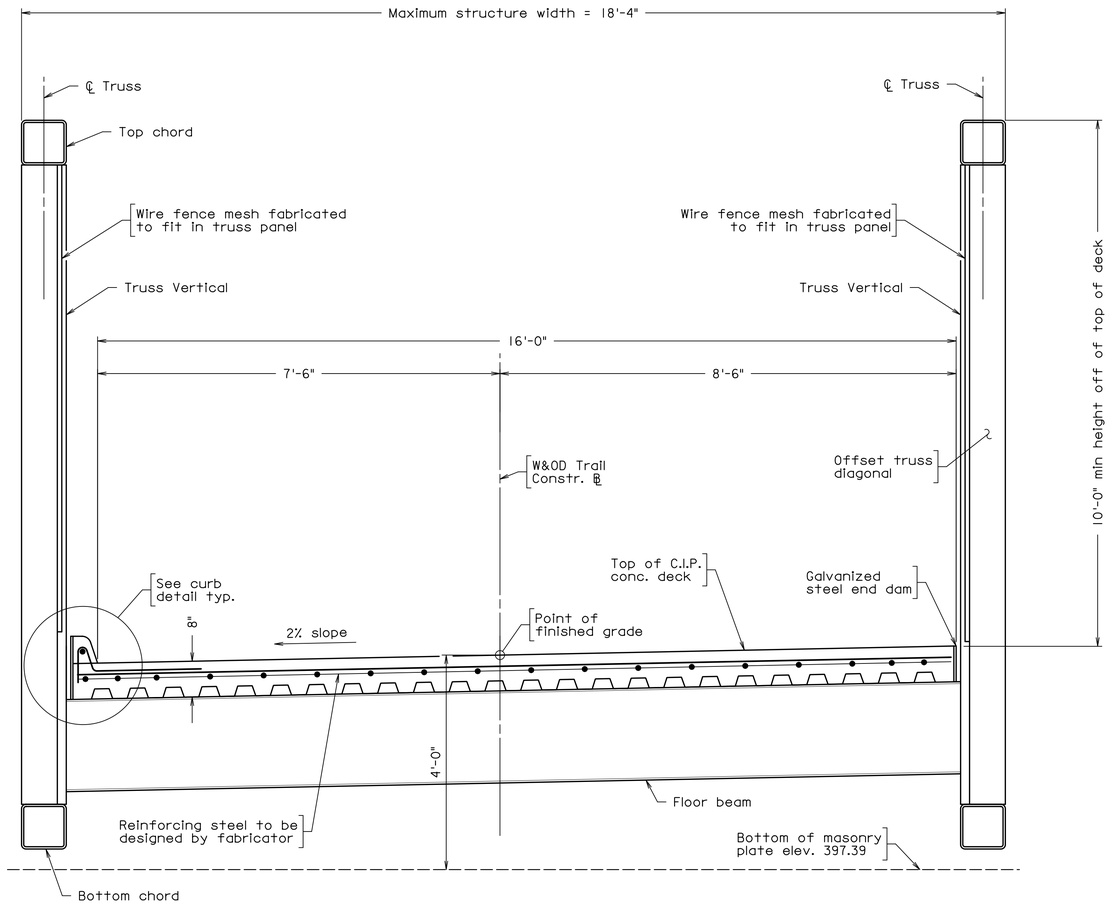
PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601



TYPICAL SECTION
Scale: ¾" = 1'-0"

Notes:

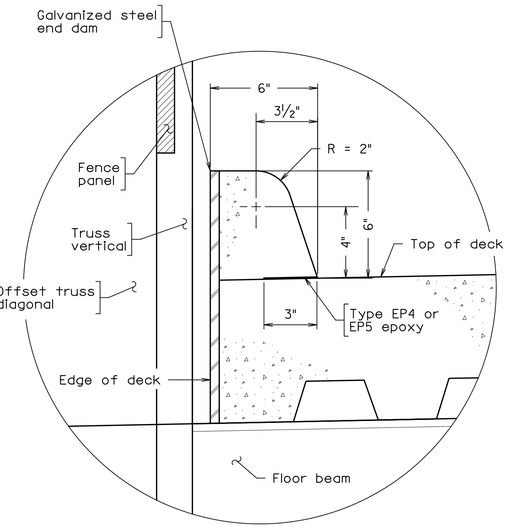
Deck reinforcing steel to be designed by prefabricated steel truss fabricator.

For Truss Details, see sheets 6(10)

For Deck Elevations, see sheet 6(11)

For Deck Slab Plan and Details, see sheet 6(12)

For wire mesh fence panel details. see sheet 6(14).



CURB DETAIL
Scale: 3" = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

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APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

TRANSVERSE SECTION

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(8)

FUND # 500-C5000

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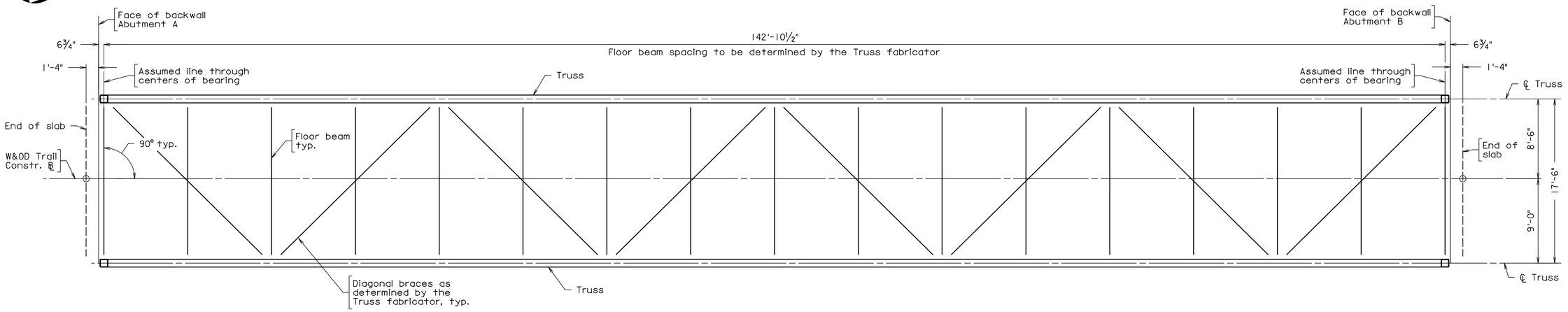
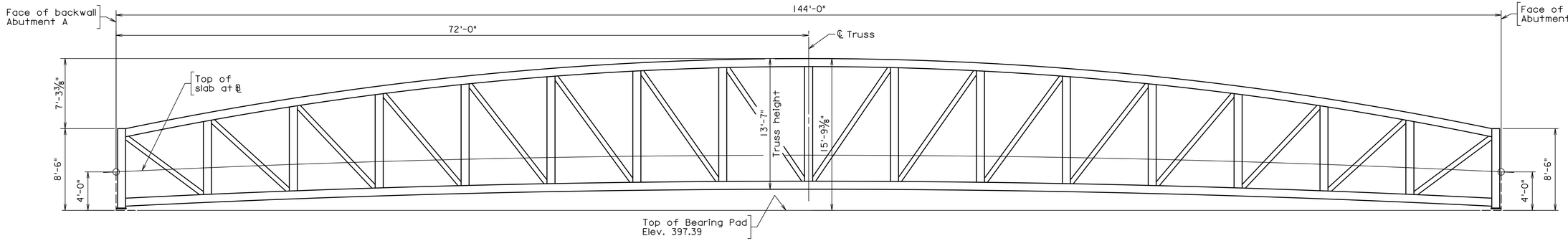
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601



FRAMING PLAN

Scale: 3/16" = 1'-0"



CONCEPTUAL TRUSS ELEVATION

Scale: 3/16" = 1'-0"
Dimensions shown include the additional camber rise of 1.25% of bridge length

Notes:

Truss fabricator shall provide necessary details and drawings for the superstructure. These details shall include camber diagram and dead load deflection diagram. Other details included shall be those that require any necessary modifications to the substructure.

The bridge shall have a vertical camber dimension at mid-span equal to 100% of the full dead load deflection including the cast-in-place concrete deck plus 1.25% of the full length of the bridge from end of slab to end of slab.

Framing Plan shown is for concept only and used to layout and design the abutments. Truss Elevation shown is to provide the general proportions desired for aesthetics. Contractor shall coordinate any changes with the Engineer and Owner.

For transverse section, see sheet 6(8).

For additional details and requirements for the prefabricated steel truss, see sheet 6(10) and the special provisions.

PREFINAL PLANS

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

FRAMING PLAN

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(9)

FUND # 500-C5000

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SURVEYED BY, DATE _ FAIRFAX COUNTY _____
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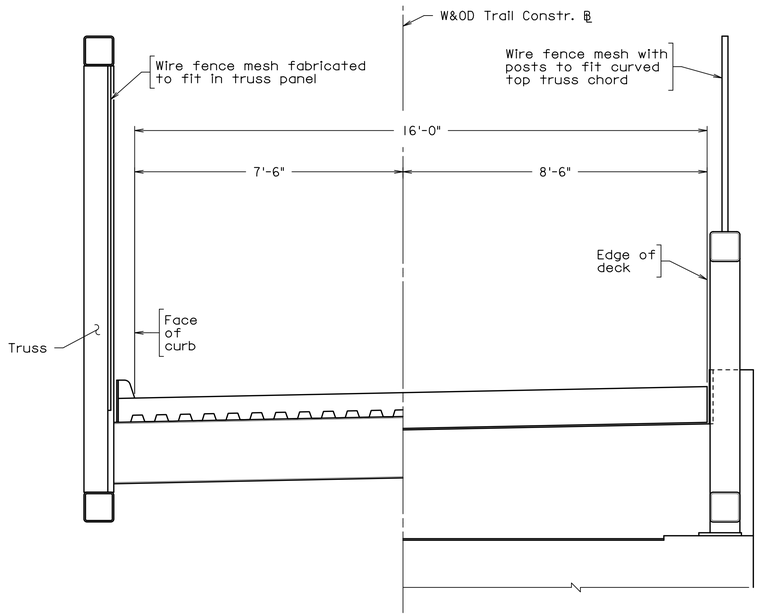
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601



SECTION AT FLOORBEAM
Section near midspan

SECTION AT ABUTMENT B
Section at Abutment A similar, opposite hand.

TRANSVERSE SECTION

Scale: ½" = 1'-0"

View is looking upstation. Deck reinforcing not shown

STEEL SUPERSTRUCTURE:

These plans and associated Special Provisions are for a fully engineered clear span steel superstructure and shall be regarded as the minimum standards for design and construction.

The prefabricated steel truss superstructure shall be a welded/bolted weathering steel truss bridge and shall be designed by the Contractor. Floor beam and stringer connections shall be bolted. Welding of lateral bracing to the flooring system shall not be permitted. Lower chord members shall allow for free drainage and be configured as to not capture debris.

The superstructure shall be designed for 90 psf pedestrian loading and H-10 vehicle loading in accordance with AASHTO LRFD Bridge Design Specification, 7th Edition, 2014; and VDOT modifications; and AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges, 2nd Edition, 2009. All design calculations shall be according to Load and Resistance Factor Design. Design loading allowances for construction tolerances are given in VDOT Modifications to AASHTO (IIM-S&B-80.5).

Superstructure design calculations, shop fabrication drawings and detailed field erection and installation procedures shall be approved by the Engineer prior to fabrication and erection. Design calculations, shop drawings and field erection and installation procedures shall be accomplished under the hand and seal of a Professional Engineer registered to practice in the Commonwealth of Virginia.

The Contractor is advised that substructure details shown in these plans are based on an assumed superstructure. The Contractor shall be responsible for determining the substructure modifications (both structural and geometric) required for the superstructure they propose. Plans reflecting any additional modifications shall be sealed by a Professional Engineer holding a valid license to practice engineering in the Commonwealth of Virginia and shall be submitted to the Engineer for approval prior to commencement of work at no additional cost to the County.

A low chord elevation based on Transverse Section, this sheet, was used in the vertical clearance calculations. The calculations were based on the assumed superstructure and any modifications to the low chord elevation shall be submitted to the Engineer for review and approval.

TRUSS SUPERSTRUCTURE REQUIREMENTS:

One simple span, 142'-10½" (measured from centerline of bearing to centerline of bearing), 146'-8" (measured from end of slab to end of slab), with a clear trail width of 16'-0" face of curb to edge of deck.

Price bid shall include design, fabrication, delivery, construction and all materials, labor, tools, equipment and incidentals necessary to complete the work.

The Contractor shall arrange to have a representative of the prefabricated truss superstructure supplier at the bridge site during erection to provide technical assistance in planning and erecting the superstructure. Cost of the representative shall be included in the bid price for Prefabricated Steel Truss Superstructure.

STRUCTURAL STEEL:

The shop drawings shall note the material specification and grade for all structural steel and hardware.

All truss members, including gusset and splice plates, floor beams, stringers and any other components designated as main load carrying members subject to calculated tension or stress reversal shall meet the Zone 2 Charpy V Notch impact strength requirements as specified in Section 226 of the Specifications. Design/Shop drawings shall clearly define those members or components requiring CVN testing.

Design/Shop drawings shall clearly define those members or components considered fracture critical by the AASHTO Guide Specifications for Fracture Critical Non-Redundant Steel Bridge Members.

Manufacturer shall design all connections for welded tubular steel members in accordance with Chapter K of the Specifications and Commentary of the AISC Steel Construction Manual, 13th Edition (with latest revisions) and all other applicable codes and standards.

Field splices of the truss and floor beam connections shall be made using high strength bolts and shall be designed as a slip-critical connection with a Class B surface. Splice design shall be designed for oversized holes but be detailed for standard holes in accordance with VDOT IIM-S&B-80.5.

All fasteners, unless otherwise noted, shall be ⅞" diameter high strength bolts, ASTM A325 galvanized with ASTM A563 Grade DH nut and one ASTM F436 washer per bolt and manufactured in accordance with Section 226 of the Specifications.

Fasteners shall be installed and tightened in accordance with the VDOT Specifications. Immediately prior to erection, all faying surfaces of high strength bolted connections shall be roughened by hand wire brushing. Power wire brushing is not allowed.

Steel trusses shall be fabricated in such a way as to provide a low chord profile that follows the profile grade line when subjected to final dead loads.

Design shop drawings shall provide complete details and dimensions of the bearing assembly to ensure proper size and elevation of bearing seats have been established.

PAINTING AND SURFACE PREPARATION:

All structural steel within 5'-0" of face of backwall shall be painted to match weathering steel color. Bearing plates and hardware shall be galvanized.

Finish paint color shall be brown, 595-20059.

Paint mainterial shall be in accordance with VDOT Specifications Section 231. Painting shall be in accordance with VDOT Specifications Section 411. Any damage prior to delivery to the bridge site shall be replaced or repaired at the fabricator's expense and at no additional cost to the Department.

The fabricator shall submit an original and two copies of the coating applicator's notarized Certificate of Compliance that the prepared painted coating surfaces meets or exceeds the requirements for successful painting of the surface.

All paint that has been chipped or damaged during handling or welding shall be power brushed and painted with two coats of paint meeting the requirements of Section 411 of the Specifications. Spray cans shall not be used.

WELDING AND NON-DESTRUCTIVE TESTING:

All fabrication, welding, non-destructive testing and visual inspection shall be in accordance with the requirements of the ANSI/AASHTO/AWS Bridge Welding Code D1.5. Welding shall be accomplished using electrodes and procedures acceptable to the Engineer. Field welds will not be permitted without prior approval from the Engineer.

BRIDGE DECK:

Bridge deck shall be 6" min. concrete. Permanent stay-in-place forms and edge dams may be used. The end of the deck slab extension at Abutments A and B shall incorporate a drip groove detail as shown on sheet 6(12).

Brdige deck shall be finished to a Class 7, Sidewalk Finish, in accordance with the VDOT specifications.

Deck reinforcing design, including curb and slab extension, shall be the responsibility of the Contractor and shall be in accordance with AASHTO LRFD Bridge Design Specification, 7th Edition, 2014; VDOT Modifications; and IIM-S&B-80.5. Contractor shall submit deck slab design calculations and shop drawings for approval prior to construction. It is the Contractor's responsibility to coordinate curb and deck reinforcement, and curb reinforcement shall be included in deck reinforcing shop drawings. Reinforcing bars shall be Corrosion Resistant Reinforcing (CRR) Class I.

Control and expansion joints shall be designed and detailed by the Contractor to meet the requirements of the VDOT Structure and Bridge Design Manual and the VDOT specifications.

The Contractor shall sumbit design calculations and shop drawings for a proposed stay-in-place form system for deck slab extensions at each end of the truss.

For additional deck details, see sheet 6(12).

PEDESTRIAN FENCE:

For wire mesh fence panel details, see sheets 6(14).

ANCHOR BOLTS:

Contractor shall be responsible for the design of bearing anchor bolts in accordance with AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT modifications for the bridge superstructure and bearings supplied. Contractor shall submit anchor bolt design calculations and shop drawings for approval prior to construction.

Anchor bolts shall conform to ASTM F1554 Grade 55, and be galvanized.

Superstructure related loads used to design the substructure elements are shown in the table below. The loads shown are unfactored.

UNFACTORED DESIGN LOADS	Max. Truss Bearing Shoe Reaction
	Kip
Dead load (DC) •	97
Future Wearing Surface - 20 psf (DW)	12
Pedestrian Live - 90 psf (PL)	53
H10 Vehicle Live (LL)	20
Wind on structure (WS) - Vertical	± 26
Wind on structure - Overturning 20 psf (WS) - Vertical	-41
Wind on structure (WS) - Lateral	17
Friction Longitudinal - Thermal, etc. (FR)	17

Positive values for vertical loads are downward. Lateral and longitundal loads are reversible.

• Includes truss, concrete deck, concrete curb, construction load (20 psf), and pedestrian fence.

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WHEIHLE AVENUE (RTE 828) AT W&OD TRAIL

PREFABRICATED STEEL TRUSS DETAILS

PROJECT NO: 1400102-2013

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(10)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

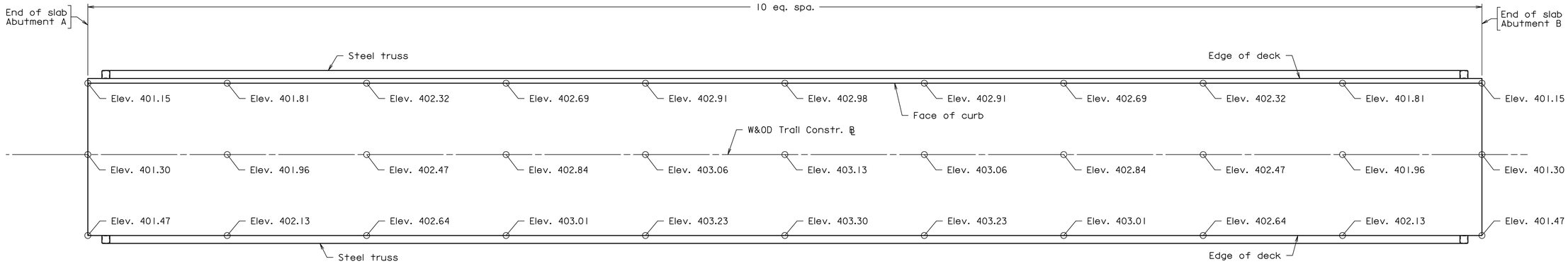
PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601

Notes:

Deck slab elevations are on finished grade at face of curb and edge of deck. Those shown on W&OD Trail Constr. ℄ are at point of finished grade denoted on Transverse section.

Points along the face of curb and edge of deck are aligned perpendicular to W&OD Trail Constr. ℄ unless otherwise shown. Straight line interpolations for intermediate elevations on top of finished roadway may be made in any direction between any two adjacent points.



DECK SLAB ELEVATIONS

Scale: 3/16" = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

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APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

DECK SLAB ELEVATIONS

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM	SHEET
XXX-XX	DRAFTED: CRR	6(11)
	CHECKED: TAB	

FUND # 500-C5000

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SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

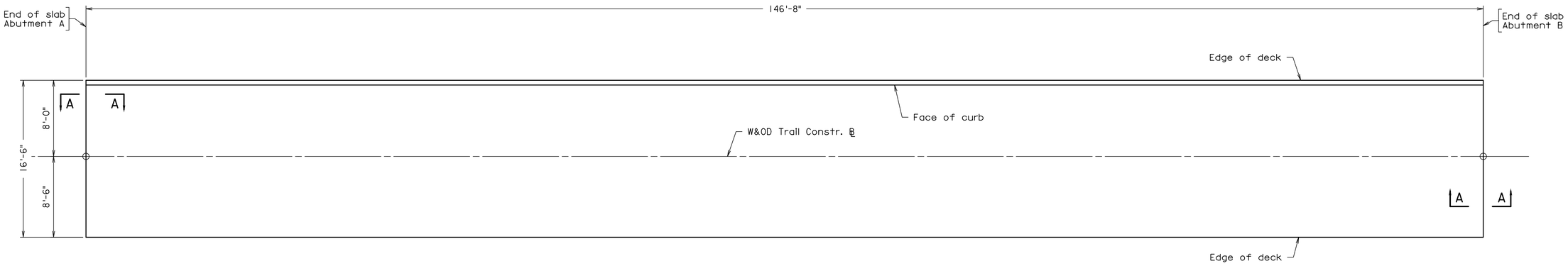
STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601

Notes:

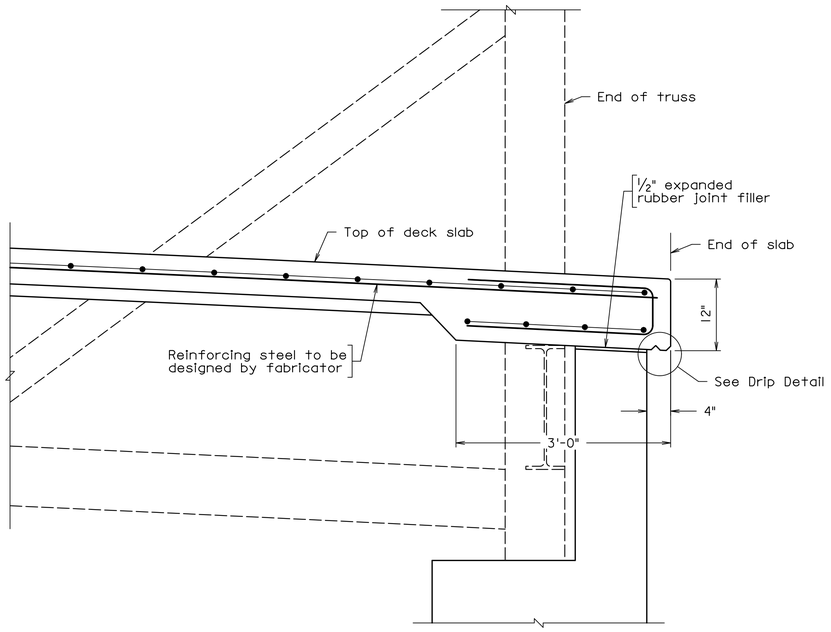
For prefabricated truss details and cast-in-place deck slab design requirements, see sheet 6(10).

Deck reinforcing to be designed by prefabricated steel truss fabricator.

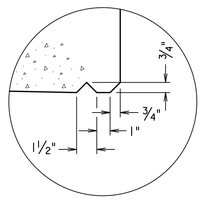
Deck slab concrete placement schedule shall be provided by prefabricated steel truss fabricator and submitted for review by the engineer. If the deck is cast in one pour, the concrete shall be maintained in a plastic state throughout the entire placement operation.



DECK SLAB PLAN
Scale: 3/16" = 1'-0"



SECTION A-A
Scale: 1" = 1'-0"



DRIP DETAIL
Not to scale

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

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12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

DECK SLAB PLAN AND DETAILS

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM	SHEET
XXX-XX	DRAFTED: CRR	6(12)
	CHECKED: TAB	

FUND # 500-C5000

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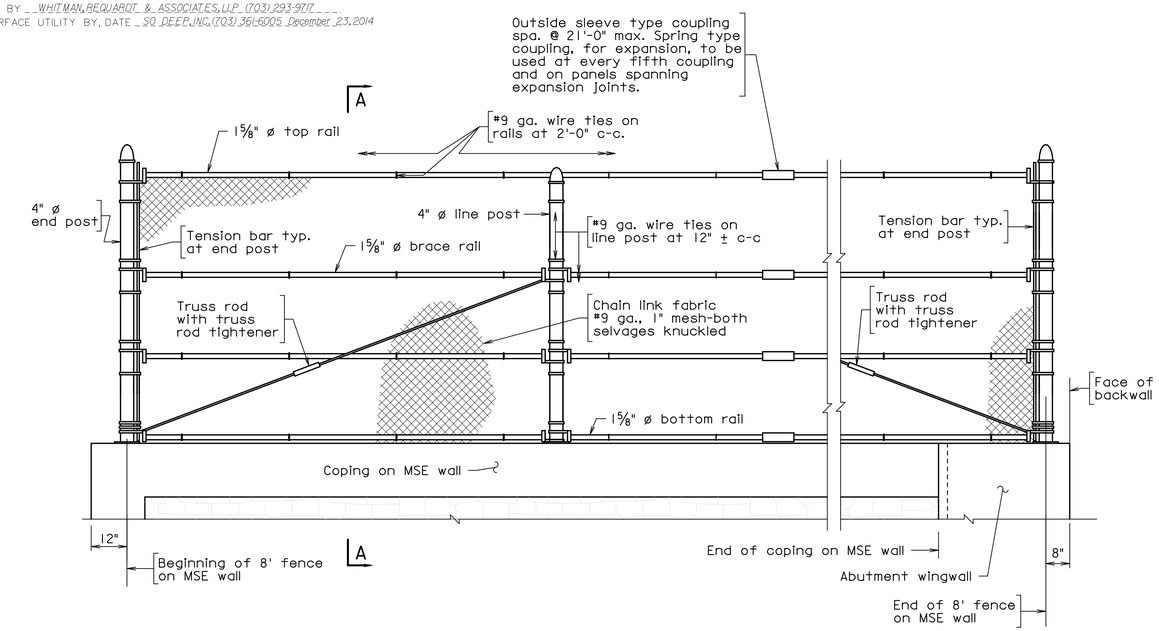
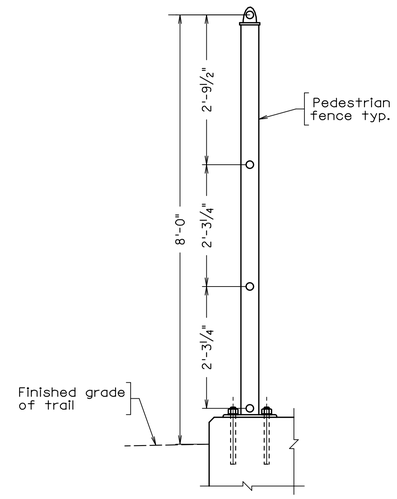
PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703)877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC,(703)361-6005 December 23,2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601



ELEVATION OF 8 FOOT FENCE ON SUBSTRUCTURE
Not to scale



SECTION A-A
Scale: ¾" = 1'-0"

Notes:

Posts shall be set vertical. Rails shall be set parallel to the top of base of railing.

Spacing of posts to be equally spaced. Maximum spacing of posts shall not exceed 10'-0".

Chain link fabric shall be placed on inside of posts and rails.

Chain link fabric, posts, rails, bolts excluding threads, and other associated hardware shall be black vinyl coated.

Bolt threads shall not be galvanized or coated.

Ends of wire ties shall be turned to outside of fence to prevent injury to pedestrians.

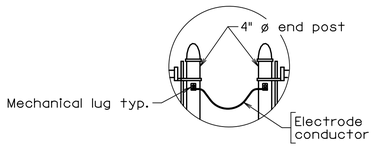
All bolts shall be high strength (ASTM A325).

All welded or seamless steel galvanized pipe shall conform to ASTM F1083, Schedule 40.

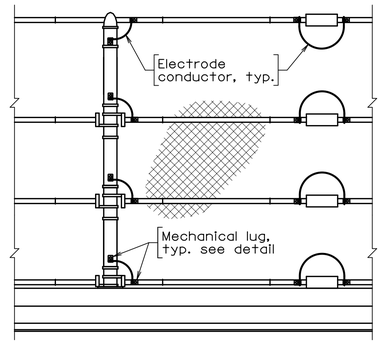
Fence framing (posts and railing) shall be grounded in accordance with Section 507.

Contractor to provide design details of post to concrete coping connection for review.

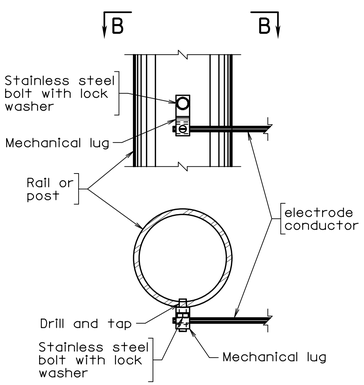
For details of the Wire Mesh Fence Panels, see sheet 6(14).



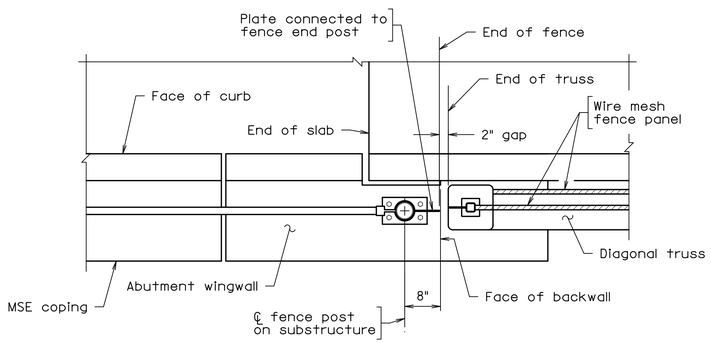
ELECTRICAL CONTINUITY
(On Open Joint)
Not to scale



ELECTRICAL CONTINUITY
FOR VINYL COATED STEEL PEDESTRIAN FENCE
(Installed on the non-traffic side of the fence)
Not to scale

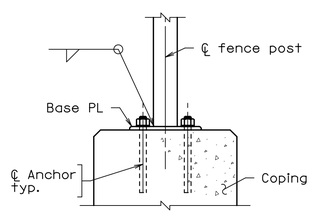


SECTION B-B
MECHANICAL LUG DETAIL
Not to scale



FENCE CONTINUITY PLAN
Abut. B shown, Abut. A opposite hand

Scale: ⅜" = 1'-0"



FENCE CONNECTION
Scale: 1½" = 1'-0"

Scale as noted.

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

PEDESTRIAN FENCE DETAILS – 8 FT. FENCE

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(13)

FUND # 500-C5000

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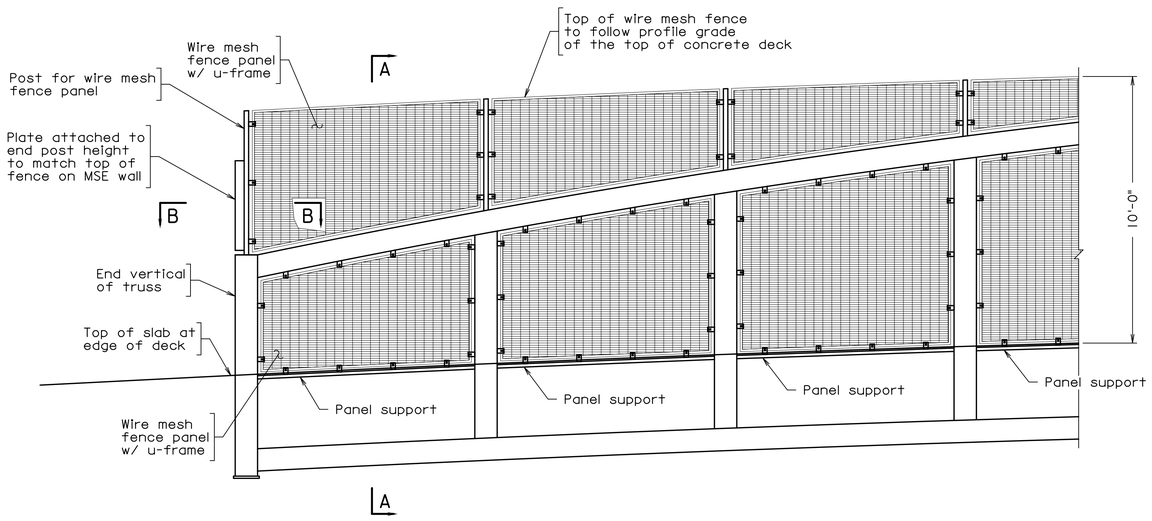
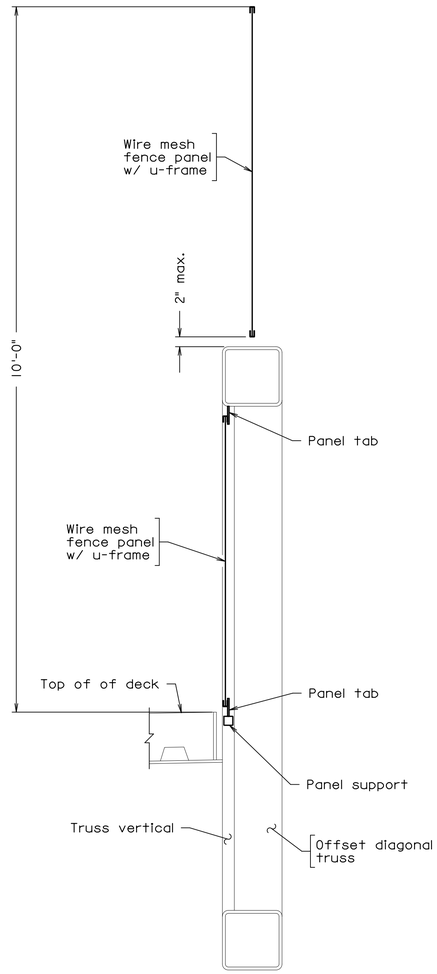
PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	___	_____	828	0828-029-248, B-601



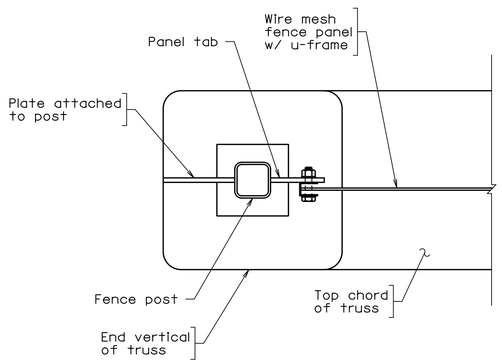
ELEVATION

Scale: 3/8" = 1'-0"
Truss diagonals not shown for clarity.



SECTION A-A

Scale: 1" = 1'-0"



SECTION B-B

Scale: 3" = 1'-0"

Notes:

Posts shall be set vertical.

Spacing of posts to be equally spaced, and be centered over locations of vertical members of truss.

All panels shall be galvanized lock crimp wire mesh panels with galvanized u-frame.

Wire mesh shall be 7 gage wire with 1" square openings.

Wire mesh, posts, frames, bolts excluding threads, and other associated hardware shall be the color brown to match that of weathering steel trusss, and be either vinyl coated or powder coated.

Bolt threads shall not be galvanized or coated.

All bolts shall be high strength (ASTM A325).

All welded or seamless steel galvanized pipe shall conform to ASTM F1083, Schedule 40.

Prefabricated truss manufacturer to provide all necessary details of wire mesh fence panels for shpo drawing reviews prior to fabrication. See special provisions for additional requirements not shown.

For MSE pedestrian fence details, see sheet 6(13).

Scale as noted.

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
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WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

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APPROVED BY THE TRANSPORTATION DESIGN DIVISION

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703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
WIRE MESH FENCE PANEL
DETAILS ON SUPERSTRUCTURE

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(14)

FUND # 500-C5000

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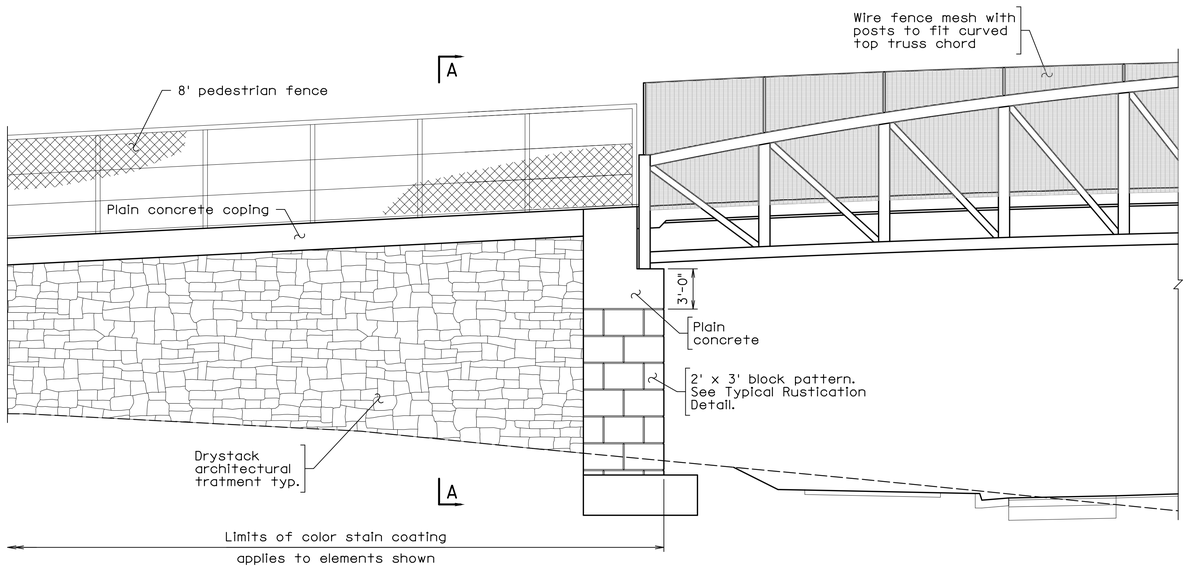
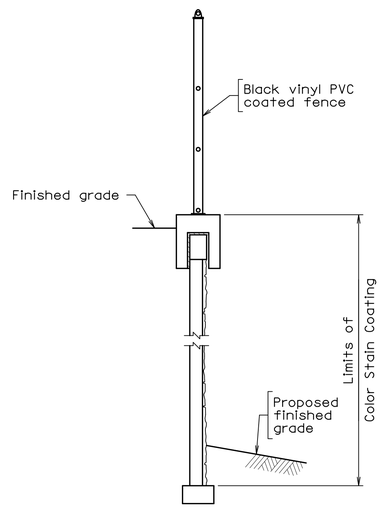
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.,(703)361-6005 December 23,2014

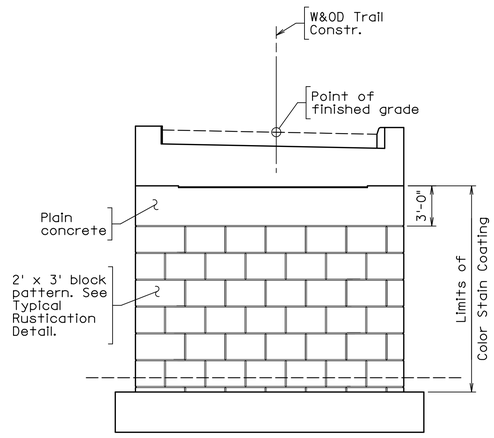
STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	___	_____	828	0828-029-248, B-601



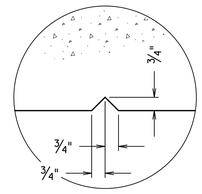
PART ELEVATION OF APPROACH WALL AND TRUSS
Showing architectural treatments
Scale: 3/16" = 1'-0"



SECTION A-A
Scale: 3/8" = 1'-0"



ELEVATION VIEW OF ABUTMENT
Showing architectural treatments
Scale: 3/16" = 1'-0"



TYPICAL RUSTICATION DETAIL
Scale: 3" = 1'-0"

Notes:

Architectural treatment for the MSE walls shall simulate drystack texture, similar to the pattern detailed on sheet 6(29).

This sheet is for layout and designation of aesthetic treatment only. For abutment and wing haunch details, see sheets 6(4) - 6(7).

Concrete forminer pattern shall be drystack similar to the pattern detailed on this sheet. Maximum relief shall be 2" for MSE walls.

Limits of concrete stain color coating are indicated for both superstructure and substructure elements.

Color stain coating shall be applied prior to installation of 8' pedestrian fence.

All concrete designated as plain concrete on this sheet shall be white (Federal color no. 595C-XXXXX. All 2' x 3' block pattern shall be grey (Federal color no. 595C-XXXXX). All Drystack pattern shall be a combination of the white and grey colors used for the other defined elements.

For additional details and requirements not shown, see special provisions.

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

ARCHITECTURAL TREATMENT DETAILS

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM	SHEET
XXX-XX	DRAFTED: CRR	6(15)
	CHECKED: TAB	

FUND # 500-C5000

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

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SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _SO DEEP,INC.(703)361-6005 December 23,2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601

REINFORCING STEEL SCHEDULE

MARK	NO.	BAR SIZE	PIN DIA. FT.-IN.	LENGTH FT.-IN.	WEIGHT (LBS.)	LOCATION
				ABUTMENT A		
				FOOTING - BLACK REINFORCING STEEL		
AF0601	48	06		8-0	576	FOOTING
AF0602	18	06		22-6	608	FOOTING
AF0603	49	06	0-4 1/2	6-8 1/4	492	FOOTING
AF0404	40	04		3-0	80	FOOTING
AF0505	12	05		3-5	43	FOOTING
			TOTAL WEIGHT IN PRECEDING GROUP OF BARS		1799	
				ABUTMENT A		
				NEAT - CORROSION RESISTANT REINF. STEEL CLASS I		
AH0401	68	04		19-7 1/2	891	STEM / BACKWALL
AH0602	5	06		19-7 1/2	147	SEAT
AH0503	64	05		5-7 1/2	375	WINGWALL
AH0504	32	05	0-2 1/2	6-0 1/8	201	WINGWALL
AH0505	8	05	0-2 1/2	8-4 1/8	70	WINGWALL
AH0506	9	05	0-2 1/2	6-2	58	WINGWALL
AH0507	3	05		2-2	7	WINGWALL
AH0508	3	05	0-2 1/2	7-3 1/8	23	WINGWALL
AV0401	40	04		14-11	399	STEM
AV0402	40	04	0-2	4-4 7/8	118	SEAT
AV0403	17	04	0-2	6-11 7/8	79	BACKWALL
AV0604	33	06		17-9	879	BACKWALL
AV0507	10	05		19-2	200	WINGWALL
AV0608	13	06		19-2	374	WINGWALL
AV0509	2	05		14-11	31	WINGWALL
AV0610	3	06		17-9	80	WINGWALL
AV0611	4	06	0-3 3/4	9-4 1/4	56	WINGWALL
			TOTAL WEIGHT IN PRECEDING GROUP OF BARS		3988	
				ABUTMENT B		
				FOOTING - BLACK REINFORCING STEEL		
AF0601	48	06		8-0	576	FOOTING
AF0602	18	06		22-6	608	FOOTING
AF0603	49	06	0-4 1/2	6-8 1/4	492	FOOTING
AF0404	40	04		3-0	80	FOOTING
AF0505	12	05		3-5	43	FOOTING
			TOTAL WEIGHT IN PRECEDING GROUP OF BARS		1799	
				ABUTMENT B		
				NEAT - CORROSION RESISTANT REINF. STEEL CLASS I		
AH0401	72	04		19-7 1/2	944	STEM / BACKWALL
AH0602	5	06		19-7 1/2	147	SEAT
AH0503	68	05		5-7 1/2	399	WINGWALL
AH0504	34	05	0-2 1/2	6-0 1/8	213	WINGWALL
AH0505	8	05	0-2 1/2	8-4 1/8	70	WINGWALL
AH0506	9	05	0-2 1/2	6-2	58	WINGWALL
AH0507	3	05		2-2	7	WINGWALL
AH0508	3	05	0-2 1/2	7-3 1/8	23	WINGWALL
AV0402	40	04	0-2	4-4 7/8	118	SEAT
AV0403	17	04	0-2	6-11 7/8	79	BACKWALL
AV0405	40	04		15-11	425	STEM
AV0606	33	06		18-9	929	BACKWALL
AV0611	4	06	0-3 3/4	9-4 1/4	56	WINGWALL
AV0512	10	05		20-2	210	WINGWALL
AV0613	13	06		20-2	394	WINGWALL
AV0514	2	05		15-11	33	WINGWALL
AV0615	3	06		18-9	84	WINGWALL
			TOTAL WEIGHT IN PRECEDING GROUP OF BARS		4189	

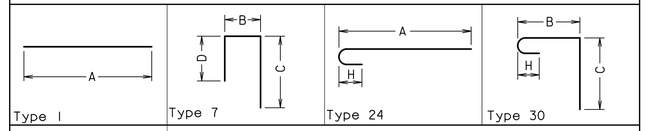
DIMENSION TABLE

MARK	TYPE	A FT.-IN.	B FT.-IN.	C FT.-IN.	D FT.-IN.	E P FT.-IN.	F Q FT.-IN.	G R FT.-IN.	H FT.-IN.	I S FT.-IN.	J T FT.-IN.	K U FT.-IN.	L FT.-IN.	V FT.-IN.	N FT.-IN.
AF0601	1	8-0													
AF0602	1	22-6													
AF0603	24	6-0							0-6						
AF0404	1	3-0													
AF0505	1	3-5													
AH0401	1	19-7 1/2													
AH0602	1	19-7 1/2													
AH0503	1	5-7 1/2													
AH0504	7		1-4 3/4	2-5	2-5										
AH0505	7		1-4 3/4	3-7	3-7										
AH0506	51		1-6 1/2	1-4 3/4					0-5						
AH0507	1	2-2													
AH0508	7		0-9 3/4	3-8	3-0										
AV0401	1	14-11													
AV0402	30		2-6 1/2	1-6					0-4 1/2						
AV0403	7		0-6 1/2	4-3 1/2	2-4										
AV0604	1	17-9													
AV0507	1	19-2													
AV0608	1	19-2													
AV0509	1	14-11													
AV0610	1	17-9													
AV0611	7		0-11 1/8	6-3 1/2	2-5										
AF0601	1	8-0													
AF0602	1	22-6													
AF0603	24	6-0							0-6						
AF0404	1	3-0													
AF0505	1	3-5													
AH0401	1	19-7 1/2													
AH0602	1	19-7 1/2													
AH0503	1	5-7 1/2													
AH0504	7		1-4 3/4	2-5	2-5										
AH0505	7		1-4 3/4	3-7	3-7										
AH0506	51		1-6 1/2	1-4 3/4					0-5						
AH0507	1	2-2													
AH0508	7		0-9 3/4	3-8	3-0										
AV0402	30		2-6 1/2	1-6					0-4 1/2						
AV0403	7		0-6 1/2	4-3 1/2	2-4										
AV0405	1	15-11													
AV0606	1	18-9													
AV0611	7		0-11 1/8	6-3 1/2	2-5										
AV0512	1	20-2													
AV0613	1	20-2													
AV0514	1	15-11													
AV0615	1	18-9													

DIMENSION VARIATION TABLE

MARK	NO. EA. LEN.	DIMEN-SION	FROM FT.-IN.	TO FT.-IN.	VARY BY FT.-IN.	DIMEN-SION	FROM FT.-IN.	TO FT.-IN.	VARY BY FT.-IN.

BENDING DIAGRAM



NOTES:

Dimensions in Bending Diagram are out-to-out of bars.

Weights in schedule are based on density of 490 lb/ft.^{3}

If fabrication of deck slab bar is not possible for length detailed and multiple bars are required, bars shall have the least number of Class B splices possible. Splices shall be located approximately at points of contraflexure and splices in alternate bars shall be located in different bays.

Straight bars (top and bottom) may be substituted for truss bars (SB series) in the deck superstructure at no extra cost to the State.

PREFINAL PLANS

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL

REINFORCING STEEL SCHEDULE

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO. XXX-XX
DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB
SHEET 6(16)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.(703)361-6005 December 23,2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

B-04
PAGE 1 OF 1

STATION: 11303.06 OFFSET: 10.13 ft LT
NORTHING: 7031410.79 ft Easting: 11813790.28 ft
SURFACE ELEVATION: 386.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/24/2016 - 10/24/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: G Koepping

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)	FINES CONTENT #200 (%)
0	386	6 7	89		1.5						0.0 / 386.0 Brown/orange, Clayey SILT with little Quartz gravel, dry **ML**				
2	385	14													
2		5 4	89		2.5						2.5 / 383.5 Orange/brown, SILT with mica, dry **ML**			18.3	70.7
4		4			4										
4		4 6	89		5										
6	380	6			6.5										
6		7 7	78		8.5										
8		11			10										
10	375														
10		7 13	100		13.5										
12		16			15										
12	370														
14		13 17	100		18.5										
14		18			20										

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 1
B-04

SPT_LOGS:W&OD WIEHLE AVE.GPJ:8.30.004:092710:44:17

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

B-05
PAGE 1 OF 1

STATION: 11400.00 OFFSET: 11.00 ft LT
NORTHING: 7031379.24 ft Easting: 11813922.61 ft
SURFACE ELEVATION: 383.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/24/2016 - 10/24/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: G Koepping

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)
0	383	5 8 7	67		1.5						0.0 / 383.0 Orange, brown, Clayey SILT with some mica, dry **ML**			
2	380	7 5 7	67		2.5						2.5 / 380.5 Orange, SILT, dry **ML**			
4		6			4									
4		6 6 9	33		5									
6	375				6.5									
6		6 7 11	100		8.5						8.5 / 374.5 Red/pink, Orange, layered SILT, dry **ML**			
8	370				10									
10														
10		6 8 11	100		13.5									
12	365				15									
12		10 13 17	100		18.5						18.5 / 364.5 Tan with brown, orange, red, black layers, SILT, dry **ML**			
14					20									

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 1
B-05

SPT_LOGS:W&OD WIEHLE AVE.GPJ:8.30.004:092710:44:17

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: BRIDGE ABUTMENT

B-06/07
PAGE 1 OF 2

STATION: 11493.65 OFFSET: 7.47 ft LT
NORTHING: 7031345.63 ft Easting: 11813922.61 ft
SURFACE ELEVATION: 380.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/28/2016 - 10/28/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)	FINES CONTENT #200 (%)
0	380	3 4 7	67		1.5						0.0 / 380.0 Brown, Sandy SILT, dry **ML**				
2		8			2.5										
2		8 7	78		4										
4	375				5						5.0 / 375.0 Brown SILT with trace Sand, dry **ML**				
4		3 4 7	100		6.5										
6					8.5										
6	370	7 8 11	100		10										
8															
8		7 15 23	72		13.5										
10	365				15										
10		14 23 27	100		18.5									15.3	75.9
12	360				20										
12		32 47 50	100		23.5										
14	355				25										
14		8 18 25	100		28.5										
16	350														

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 2
B-06/07

SPT_LOGS:W&OD WIEHLE AVE.GPJ:8.30.004:092710:44:17

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The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the County, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

PREFINAL PLANS

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
ENGINEERING GEOLOGY
1 OF 6

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO. XXX-XX
DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB
SHEET 6(17)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.(703)361-6005 December 23,2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601

Virginia Department of Transportation

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: BRIDGE ABUTMENT

B-06/07
PAGE 2 OF 2

STATION: 11493.65 OFFSET: 7.47 ft LT
NORTHING: 7031345.63 ft Easting: 11813922.61 ft
SURFACE ELEVATION: 380.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/28/2016 - 10/28/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL RECOVERY (%)	SAMPLE LEGEND	SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK QUALITY DESIGNATION	DIP * STRATA	DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)	FINES CONTENT #200 (%)
30															
32															
34	345	22 30 50/5"	83		33.5 35										
36															
38															
40	340	30 48 50/5"	95		38.5 40										
42															
44	335	21 32 50/2"	95		43.5 45										
46															
48															
50	330	16 30 50/2"	95		48.5 50						48.5 / 331.5 Reddish brown, Sandy SILT with trace Sand, dry **ML**				

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 2 OF 2
B-06/07

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.0043;09271043;4/17

Virginia Department of Transportation

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: BRIDGE ABUTMENT

B-09/10
PAGE 1 OF 2

STATION: 11625.74 OFFSET: 3.13 ft LT
NORTHING: 7031298.35 ft Easting: 11814093.95 ft
SURFACE ELEVATION: 378.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/27/2016 - 10/27/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL RECOVERY (%)	SAMPLE LEGEND	SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK QUALITY DESIGNATION	DIP * STRATA	DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)	FINES CONTENT #200 (%)
0		3 5 8	67		1.5						0.0 / 378.0 Brown, Sandy SILT, dry **ML**				
2	375	25 10 12	78		2.5 4										
4					5										
6		10 13 15	100		6.5										
8	370	13 17 14	100		8.5 10										
10															
12															
14	365	8 6 8	100		13.5 15										
16															
18	360	16 19 15	100		18.5 20									13.8	63.1
20															
22															
24	355	17 34 50/5"	78		23.5 25										
26															
28	350	15 27 35	100		28.5										
30															

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 2
B-09/10

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.0043;09271043;4/17

Virginia Department of Transportation

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: BRIDGE ABUTMENT

B-09/10
PAGE 2 OF 2

STATION: 11625.74 OFFSET: 3.13 ft LT
NORTHING: 7031298.35 ft Easting: 11814093.95 ft
SURFACE ELEVATION: 378.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/27/2016 - 10/27/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL RECOVERY (%)	SAMPLE LEGEND	SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK QUALITY DESIGNATION	DIP * STRATA	DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)	FINES CONTENT #200 (%)
30															
32															
34	345	20 50/5"	61		33.5 35										
36															
38															
40	340	29 50/5"	61		38.5 40						40.0 / 338.0 Brown/gray, SILT with trace Sand, dry **ML**				
42															
44	335	50/5"	28		43.5 45										
46															
48	330	50/5"	28		48.5 50										
50															

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 2 OF 2
B-09/10

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.0043;09271043;4/17

A copy of the original signed geotechnical submittal is on file with the County.

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the County in establishing design controls for the project. The County has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The County does not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the County does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes.

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WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
ENGINEERING GEOLOGY
2 OF 6

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO. XXX-XX
DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB
SHEET 6(18)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

B-11
PAGE 1 OF 2

STATION: 11725.00 OFFSET: 12.00 ft LT
NORTHING: 7031273.94 ft Easting: 11814191.65 ft
SURFACE ELEVATION: 379.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/26/2016 - 10/26/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)
0											0.0 / 379.0 Brown, Sandy SILT, dry **ML**			
2		4 6 12	89		1.5									
4	375	11 8 7	78		2.5 4									
6		9 9 10	89		5 6.5									
8	370	14 8 13	100		8.5 10									
10														
12														
14	365	9 19 25	100		13.5 15									
16														
18														
20	360	5 12 11	100		18.5 20									
22														
24	355	21 23 25	100		23.5 25									
26														
28	350	20 27 50/5"	95		28.5									
30														

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 2
B-11

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

B-11
PAGE 2 OF 2

STATION: 11725.00 OFFSET: 12.00 ft LT
NORTHING: 7031273.94 ft Easting: 11814191.65 ft
SURFACE ELEVATION: 379.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/26/2016 - 10/26/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)
30					30									
32														
34	345	22 50/1"	33		33.5 35									
36														
38														
40	340	50/1"	5		38.5 40									
42														
44	335	50/2"	11		43.5 45									
46														
48														
50	330	50/3"	17		48.5 50									

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 2 OF 2
B-11

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

B-12
PAGE 1 OF 2

STATION: 11900.00 OFFSET: 12.00 ft LT
NORTHING: 7031216.74 ft Easting: 11814357.04 ft
SURFACE ELEVATION: 363.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/27/2016 - 10/27/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)
0											0.0 / 363.0 Brown, SILT with trace Sand, dry **ML**			
2	360	3 5 7			1.5									
4		30 8 10			2.5 4									
6		13 8 8			5 6.5									
8	355	7 10 14			8.5 10									
10														
12														
14	350	7 9 12			13.5 15									
16														
18	345	6 6 10			18.5 20									
20														
22														
24	340	7 7 12			23.5 25									
26														
28	335	6 9 17			28.5									
30														

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 2
B-12

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.004;09271044/17

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PREFINAL PLANS

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
ENGINEERING GEOLOGY
3 OF 6

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO. XXX-XX

DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB

SHEET 6(19)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.(703)361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601

VDOT Virginia Department of Transportation

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

B-12
PAGE 2 OF 2

STATION: 11900.00 OFFSET: 12.00 ft LT
NORTHING: 7031216.74 ft Easting: 11814357.04 ft
SURFACE ELEVATION: 363.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/27/2016 - 10/27/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP ° STRATA	ROCK: DIP ° JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)
30														
32														
	330	13 30 50/5"			33.5									
34					35									
36														
38	325	30 50/5"	61		38.5						38.5 / 324.5 Brown, gray, SILT with some rock fragments, dry **ML**			
40					40									
42														
	320	40 50/5"	61		43.5									
44					45									
46														
48	315	37 50/4"	55		48.5									
50					50									

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 2 OF 2
B-12

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.004;092710;4/4/17

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VDOT Virginia Department of Transportation

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

B-13
PAGE 1 OF 1

STATION: 12050.00 OFFSET: 33.97 ft RT
NORTHING: 7031167.13 ft Easting: 11814500.48 ft
SURFACE ELEVATION: 355.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/26/2016 - 10/26/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: B Grass

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP ° STRATA	ROCK: DIP ° JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)	FINES CONTENT -#200 (%)
0		3 3 13	55		1.5						0.0 / 355.0 Gravel **GP**				
2					2.5						0.5 / 354.5 Brown, Silty fine SAND, dry **SM**				
	350	9 7 7	28		4						2.5 / 352.5 Brown, Sandy SILT, dry **ML**				
4					5										
		4 4 4	33		6.5										
6															
8		6 9 12	78		8.5									14.9	71.7
10	345				10										
12															
		20 50/5"	61		13.5										
14	340				15										
16															
18		14 15 48	78		18.5										
20	335				20										

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 1
B-13

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.004;092710;4/4/17

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A copy of the original signed geotechnical submittal is on file with the County.

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the County in establishing design controls for the project. The County has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The County does not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the County does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes.

The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the County, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

PREFINAL PLANS

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

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OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
ENGINEERING GEOLOGY
4 OF 6

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO. XXX-XX
DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB
SHEET 6(20)

FUND # 500-C5000

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SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.,(703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	———	———	828	0828-029-248, B-601

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Notes: See borehole logs for complete data
See Material and Sample Symbols List

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

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WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
ENGINEERING GEOLOGY
5 OF 6

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO. XXX-XX
DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB
SHEET 6(21)

FUND # 500-C5000

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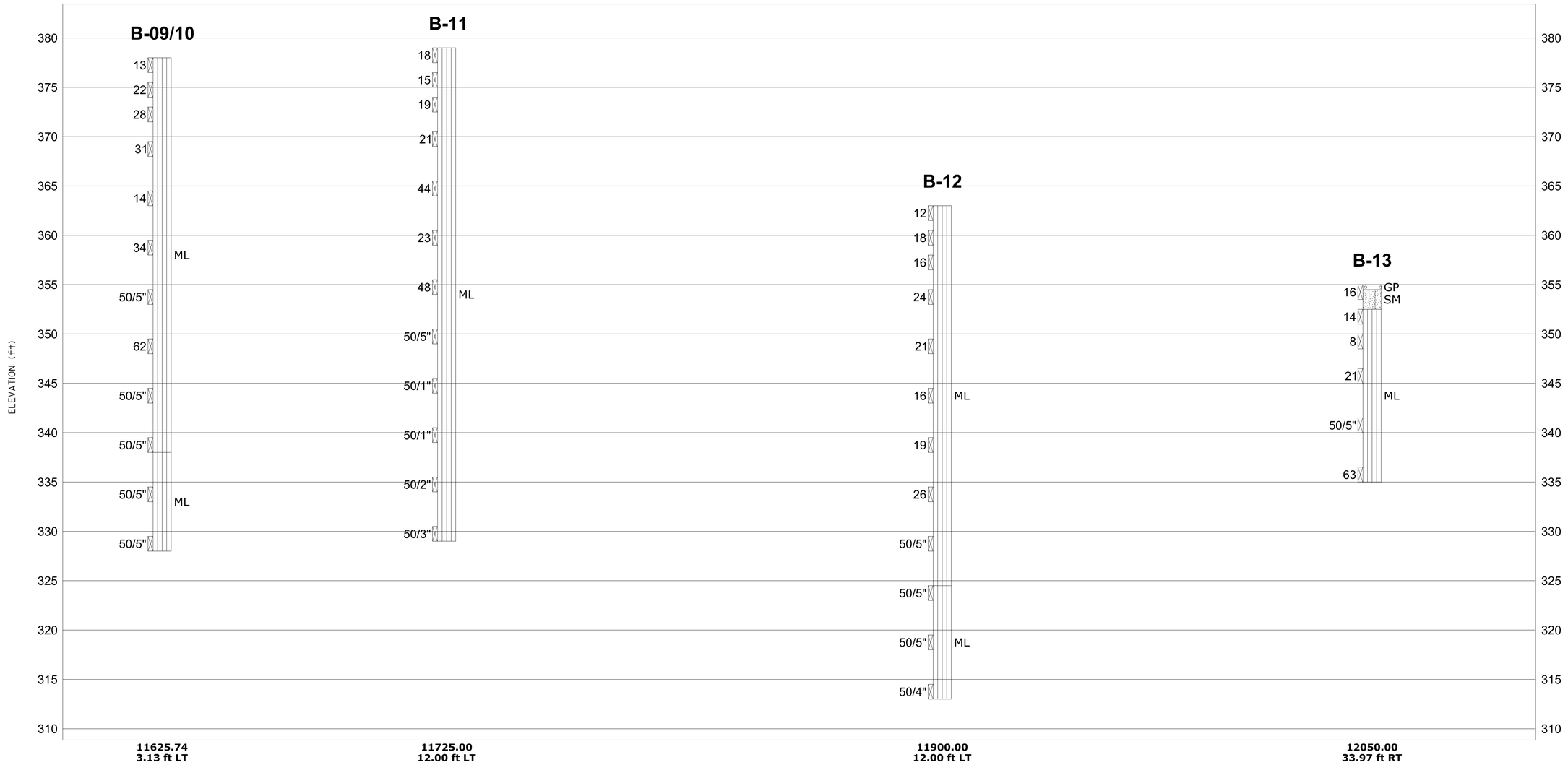
STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601



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WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
ENGINEERING GEOLOGY
6 OF 6

PROJECT NO: 1400102-2013

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APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(22)

FUND # 500-C5000

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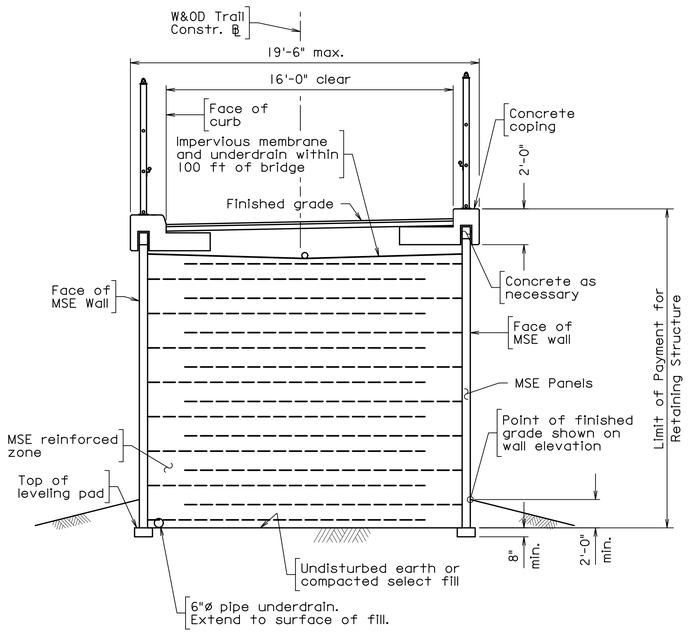
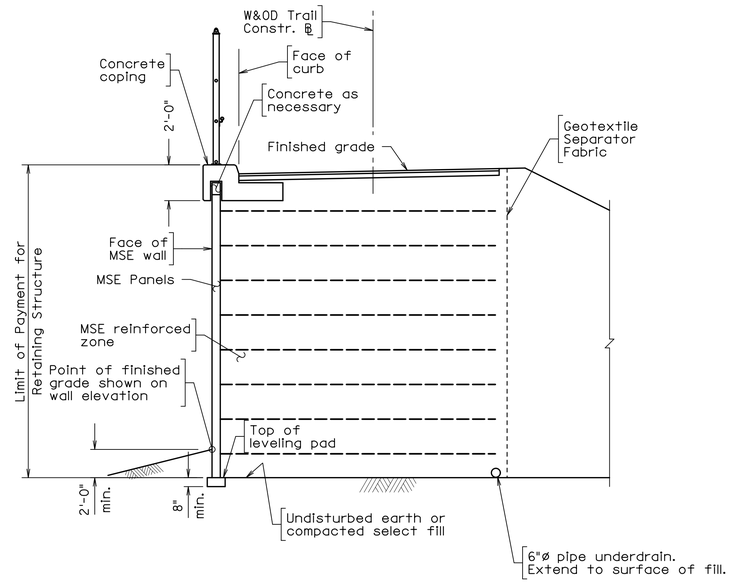
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601



TYPICAL SECTION THROUGH
MSE WALLS 2, 3, 4, AND 5
IN BRIDGE APPROACH SECTION



TYPICAL SECTION THROUGH
MSE WALL 4
BEYOND STATION 42+00

MSE WALL GENERAL NOTES:

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions.

The minimum design life of MSE wall shall be 100-year for walls within 100 feet from edge of a bridge abutment and 75-year there after.

The anticipated MSE wall total settlement and estimated settlement waiting periods are shown on this sheet.

For bearing requirements, see the MSE Walls Design Data Table on this sheet.

Prior to wall construction, the foundation shall be compacted with a smooth wheel vibratory roller. The drums of the roller should be ballasted and each pass of the roller should overlap one half the width of the previous pass. The roller shall make at least ten passes over the proposed wall foundation zone. No density test will be required. Any foundation soils found to be unsuitable shall be removed and replaced with select material Type I minimum CBR of 30.

Minimum panel design thickness is 5.5 inches. Thickness of concrete must increase to accommodate any architectural surface finish that may be specified. Maximum panel dimensions shall not exceed 5 ft.x10 ft.

A geotextile shall be used as a separator between the mechanically stabilized earth mass, retained fill, and the subbase. A geotextfile is not necessary separating the mechanically stablized earth mass and subbase if a minimum of 6 inches of compacted No. 21B stone is placed on top of the subgrade.

Corrosion resistant reinforcing steel Class I shall be used in all copings.

Coping shall not be placed until wall completion and waiting periods are complete.

All coping designated herein shall be cast-in-place or precast concrete to the dimensions shown.

The selected wall supplier will submit a detailed design and shop drawings for approval.

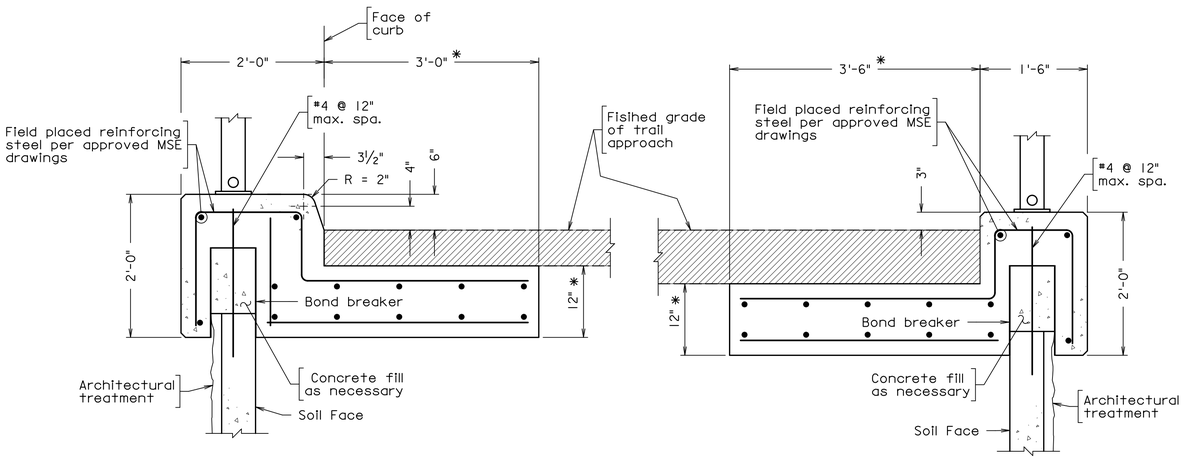
Provide drainage details such as perforated pipe underdrain and/or drainage blanket based upon field conditions.

All panel types and other related elements shall be detailed on shop drawings.

Wall shall be designed to resist forces from retained fill with the following parameters:
Soil Friction angle ø = 34 degrees Ka = 0.283
Unit Weight = 125 lb/cf
Traffic Surcharge = 90 lb/sf
Handrail Lateral Force = 120 lb/ft

Contractor shall coordinate with all trades performing work within MSE wall limits.

Wall supplier shall include all details for the MSE coping and reaction slabs.



CAST-IN-PLACE REACTION SLAB DETAILS

* Approximate dimension. Reaction slab details as determined by the MSE manufacturer.

MSE WALLS DESIGN DATA TABLE

Wall	Minimum Strap Length (ft)	Estimated Settlement (In)	Estimated Settlement Waiting Period (weeks)	Service Limit State: Applied Base Pressure (ksf)	Strength Limit State: Maximum Factored Bearing Resistance (ksf)
2	0.7H/6 ft.	< x 1.0 inch	None	5.9	8.0
3	0.7H/6 ft.	< x 1.0 inch	None	5.9	8.0
4	0.7H/6 ft.	< x 1.0 inch	None	5.9	8.5
5	0.7H/6 ft.	< x 1.0 inch	None	5.9	8.0

* Minimum strap length shall be the greater of 6'-0" or 0.7H, where "H" is the height measured from the bottom of leveling pad to the top of the roadway.

PREFINAL PLANS

Scale: 1" = 1'-0", unless otherwise shown

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
MSE WALLS
GENERAL NOTES AND DETAILS

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(23)

FUND # 500-C5000

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SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.,(703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601

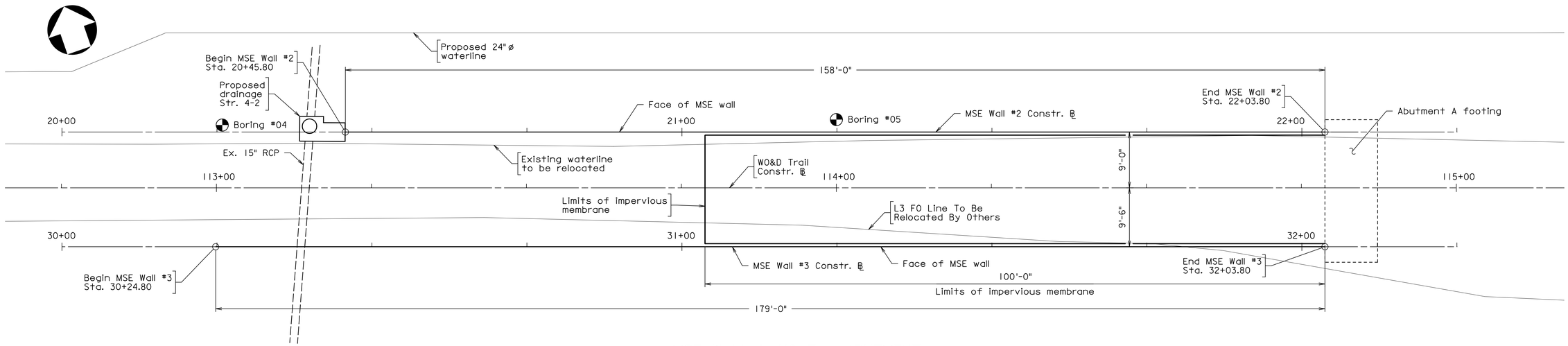
Notes:

For MSE Wall Baseline definitions, see sheet 1F(2)

For boring logs, see sheet 6(17)

For MSE wall general notes, see sheet 6(23)

For wall elevations, see sheet 6(26)



MSE WALL LAYOUT - ABUTMENT A

Scale: 1/8" = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

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703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
MSE WALL LAYOUT
1 OF 2

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

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RICHMOND, VA
STRUCTURAL ENGINEER

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(24)

FUND # 500-C5000

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DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

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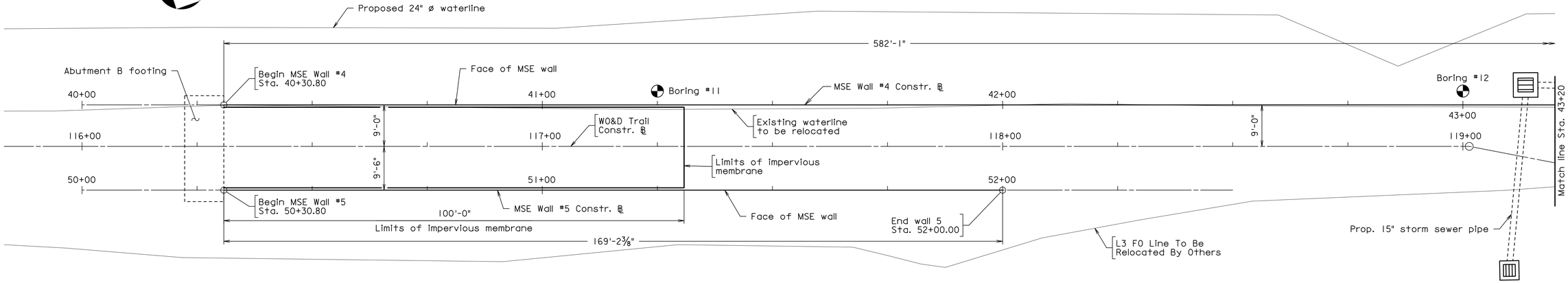
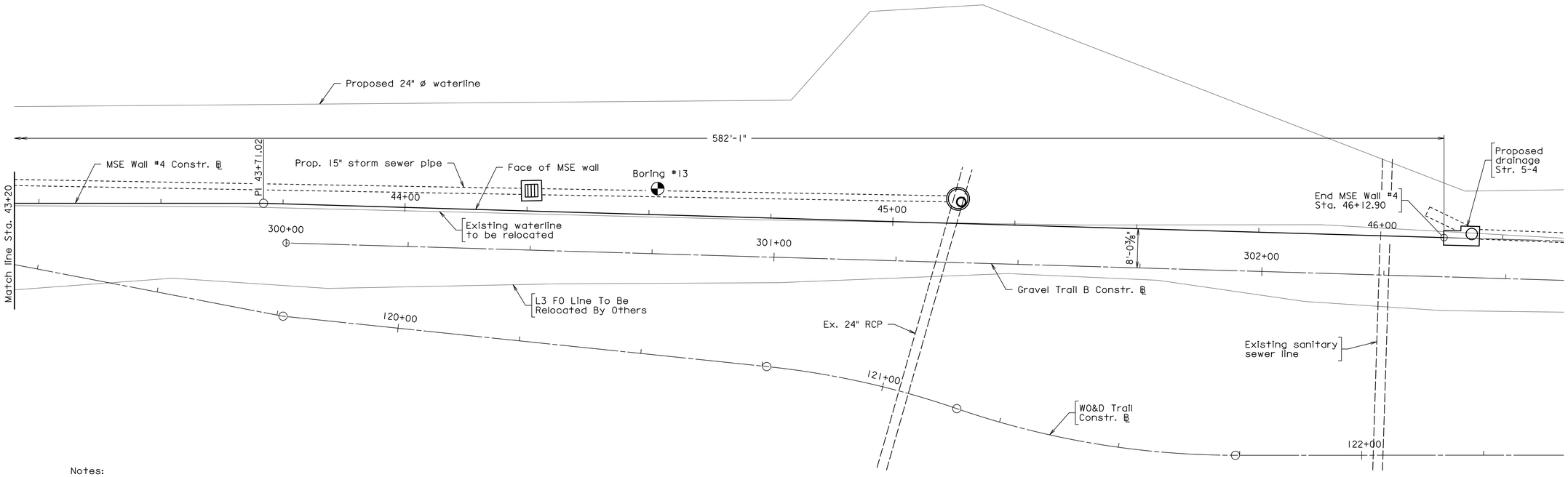
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	—	———	828	0828-029-248, B-601



MSE WALL LAYOUT - ABUTMENT B



MSE WALL LAYOUT - ABUTMENT B

Notes:

For MSE Wall Baseline definitions, see sheet 1F(2)

For boring logs, see sheets 6(19) and 6(20)

For MSE wall general notes, see sheet 6(23)

For wall elevations, see sheets 6(27) and 6(28)

Scale: 3/32 " = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

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WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
MSE WALL LAYOUT
2 OF 2

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM	SHEET
XXX-XX	DRAFTED: CRR	6(25)
	CHECKED: TAB	

FUND # 500-C5000

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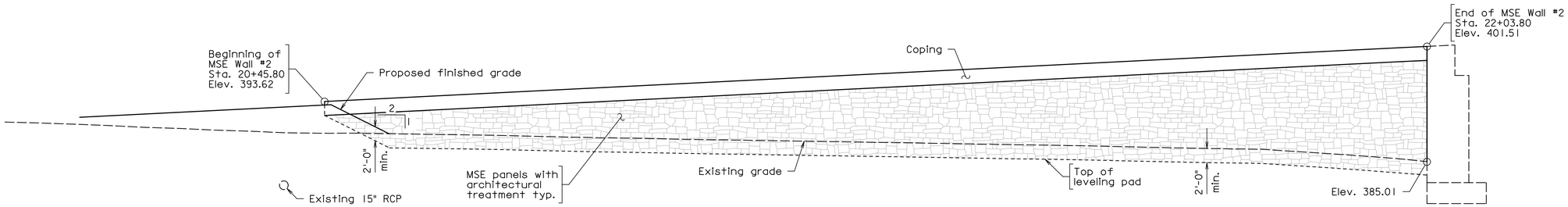
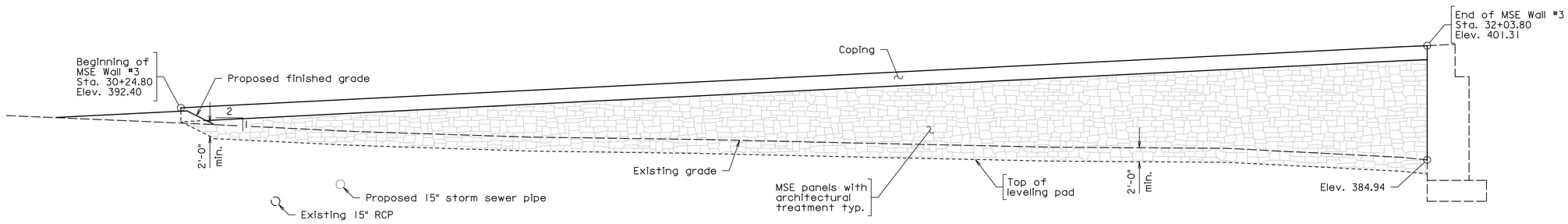
VA.	——	———	828	0828-029-248, B-601



MSE WALL 2 - ELEVATION



MSE WALL 3 - ELEVATION

Scale: 1/8" = 1'-0"

PREFINAL PLANS

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WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
MSE WALL ELEVATIONS
WALLS 2 & 3

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM	SHEET
XXX-XX	DRAFTED: CRR	6(26)
	CHECKED: TAB	

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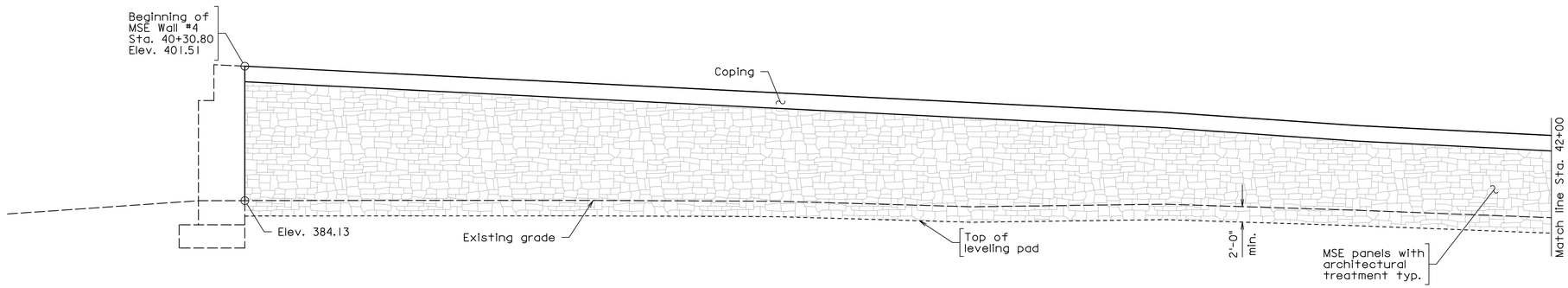
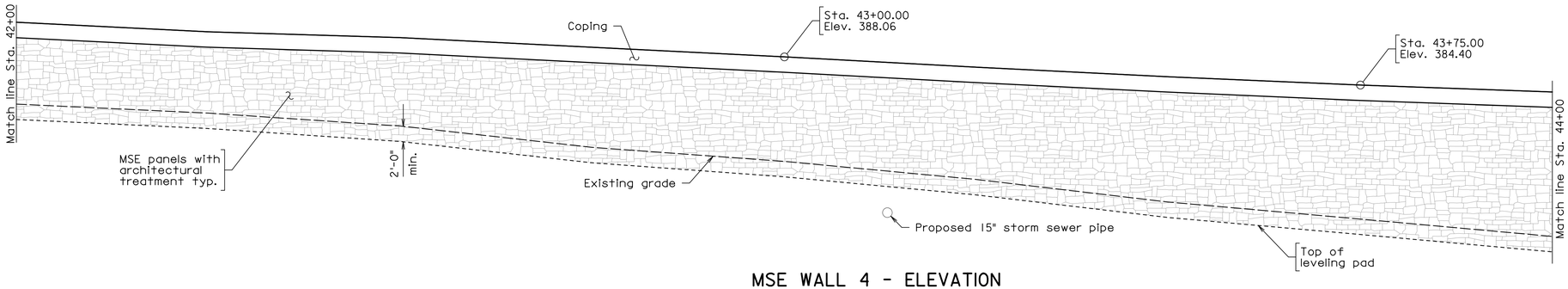
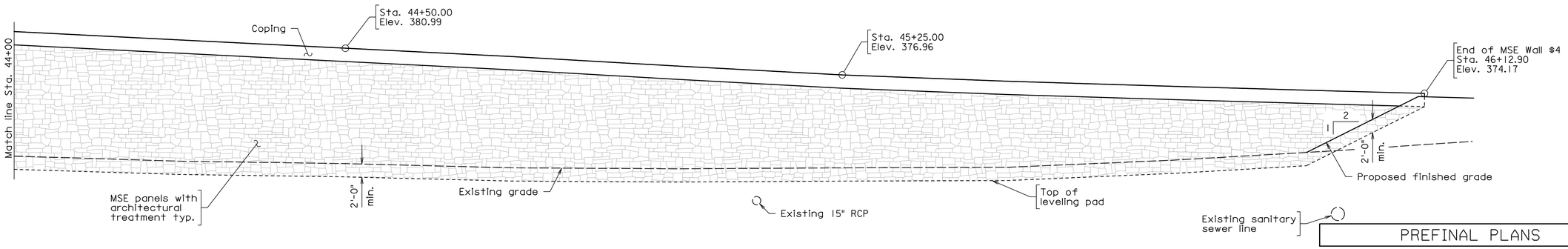


MSE WALL 4 - ELEVATION



MSE WALL 4 - ELEVATION



MSE WALL 4 - ELEVATION

Scale: 1/8" = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
MSE WALL ELEVATION
WALL 4

PROJECT NO: 1400102-2013

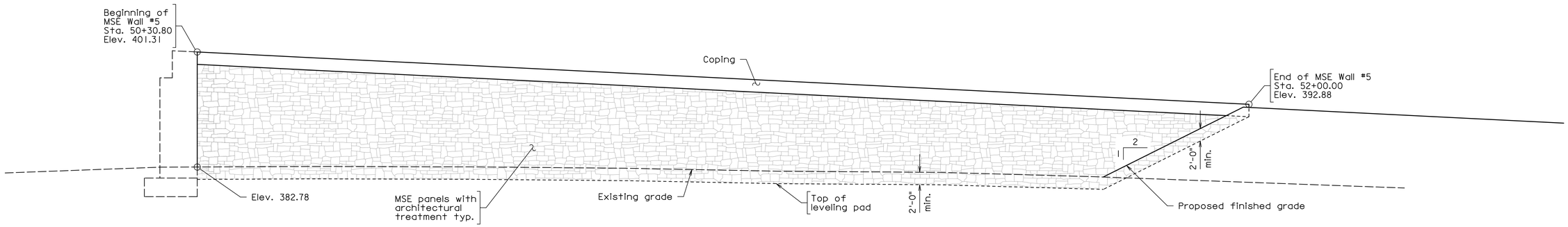
PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(27)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601



MSE WALL 5 - ELEVATION

Scale: 1/8" = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
MSE WALL ELEVATION
WALL 5

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(28)

FUND # 500-C5000

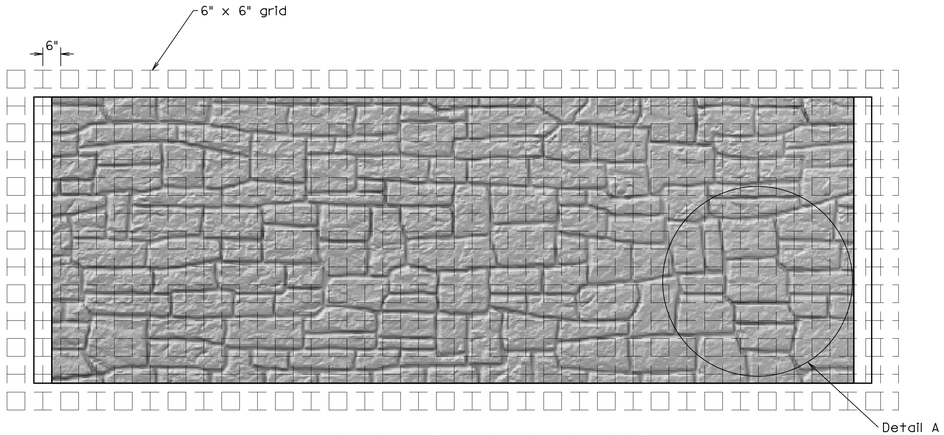
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703) 293-9717 ___
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.,(703) 361-6005 December 23, 2014

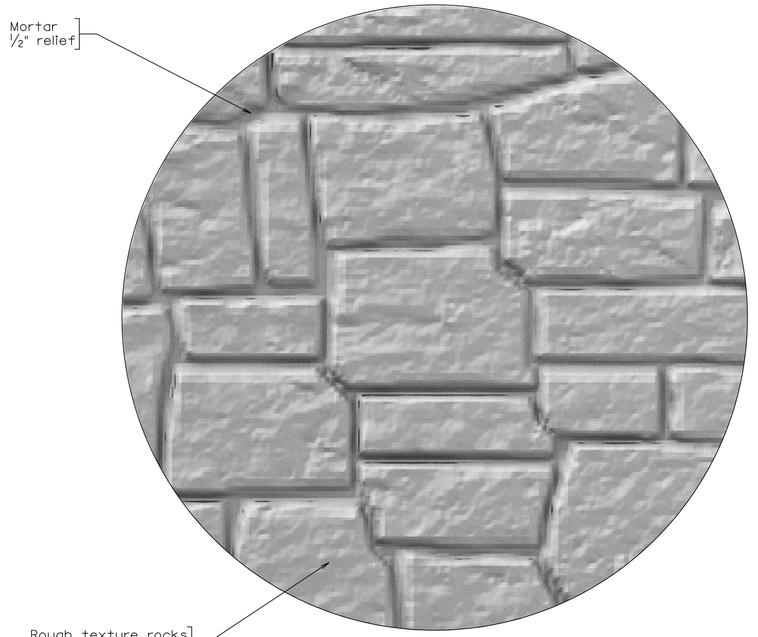
STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	___	_____	828	0828-029-248, B-601

Notes:

For additional details, see Sheets 6(23) through 6(28)



VDOT DRYSTACK TEXTURE DETAIL
Not to scale



DETAIL A
Not to scale

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
MSE WALL
ARCHITECTURAL TREATMENT DETAILS

PROJECT NO: 1400102-2013

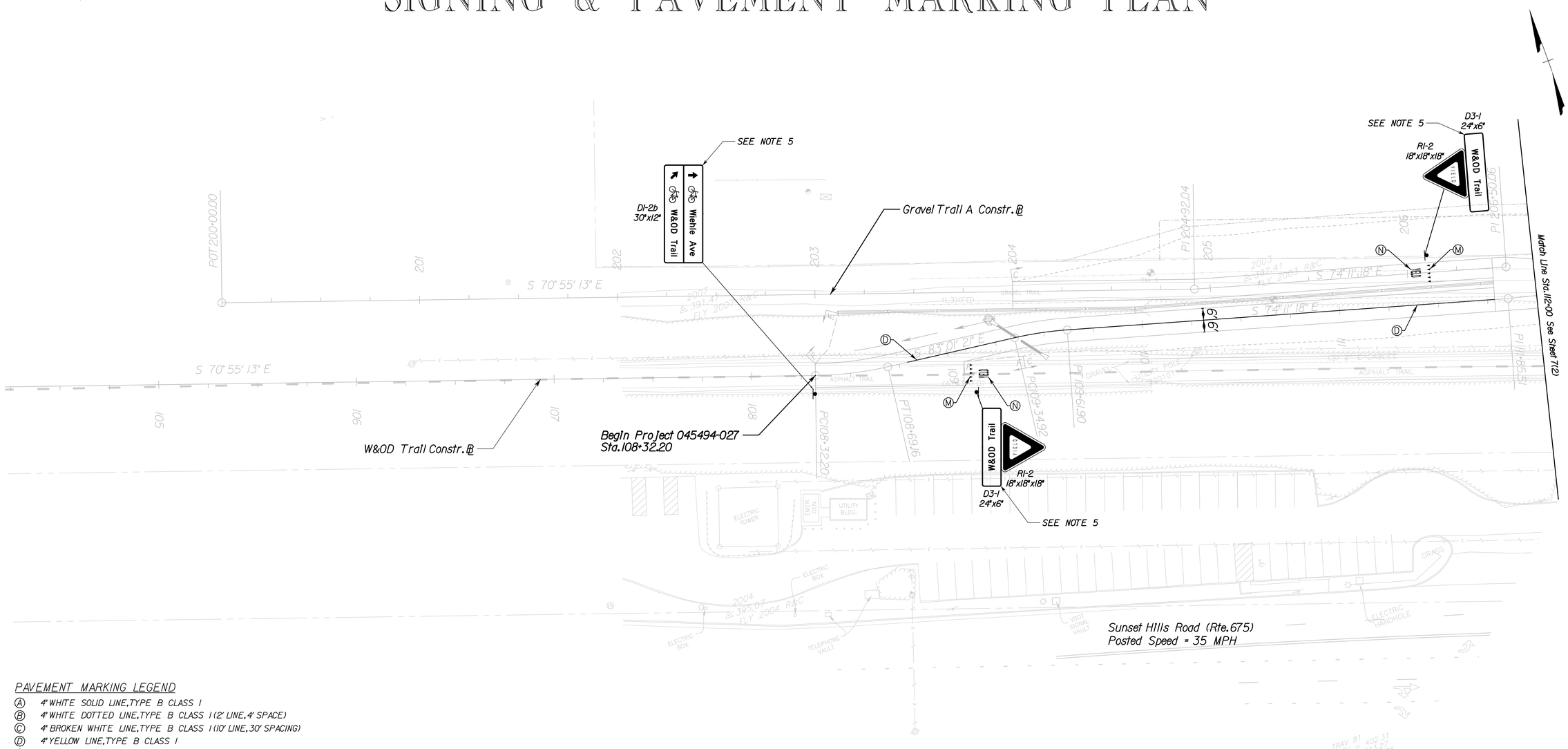
PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		6(29)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

SIGNING & PAVEMENT MARKING PLAN



PAVEMENT MARKING LEGEND

- Ⓐ 4" WHITE SOLID LINE, TYPE B CLASS I
- Ⓑ 4" WHITE DOTTED LINE, TYPE B CLASS I (2' LINE, 4' SPACE)
- Ⓒ 4" BROKEN WHITE LINE, TYPE B CLASS I (10' LINE, 30' SPACING)
- Ⓓ 4" YELLOW LINE, TYPE B CLASS I
- Ⓔ 24" WHITE SOLID LINE, TYPE B CLASS I
- Ⓕ 6" WHITE SOLID LINE, TYPE B CLASS I
- Ⓖ 4" BROKEN YELLOW LINE, TYPE B CLASS I (3' LINE, 9' SPACING)
- Ⓗ 24" YELLOW SOLID LINE, TYPE B CLASS I (20' SPACING AT 45 DEGREES)
- Ⓘ PAVEMENT MESSAGE MARKING ELONGATED ARROW SINGLE
- Ⓙ 8" WHITE SOLID LINE, TYPE B CLASS I (5' SPACING)
- Ⓚ ERADICATE EXISTING PAVEMENT MARKINGS
- Ⓛ 24" WHITE SOLID LINE, TYPE B CLASS I (10' LINE, SPACING 2'-5')
- Ⓜ 18" WHITE YIELD LINE, TYPE B CLASS I
- Ⓝ PAVEMENT MESSAGE MARKING "YIELD", TYPE B CLASS I

NOTES:

1) ALL PROPOSED SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING MANUALS, OR THE MOST RECENT REVISION THERETO:
   A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   B. THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
   C. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
   D. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS.

2) EXISTING SIGNS WITHIN THE LIMITS OF THE CONTRACT WHICH HAVE NOT BEEN ACCOUNTED FOR IN THE PLAN SHALL BE RELOCATED OR REMOVED AS DIRECTED BY THE ENGINEER.

3) ALL COMPONENTS OF AN EXISTING SIGN INSTALLATION WHICH ARE REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT AN OFF-SITE LOCATION.

4) ALL SIGNS TO BE PLACED ON A STP-1-2 IN. 14 GA. POST UNLESS OTHERWISE NOTED.

5) SEE SHEET 7(4) FOR SIGN PANEL DETAILS.

SCALE
0 25' 50'

Whitman, Requardt & Associates, LLP

COMMONWEALTH OF VIRGINIA
DANA TRONE OZLIN
Lic. No. 045607
PROFESSIONAL ENGINEER

Dana T Ozlin
2018.05.29 15:41:04 -04'00'

Whitman Requardt & Associates
Richmond, Virginia
TRAFFIC ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
SIGNING AND PAVEMENT MARKING PLAN

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
1"=25'	DRAFTED: WRA	7(1)
	CHECKED: RBH	

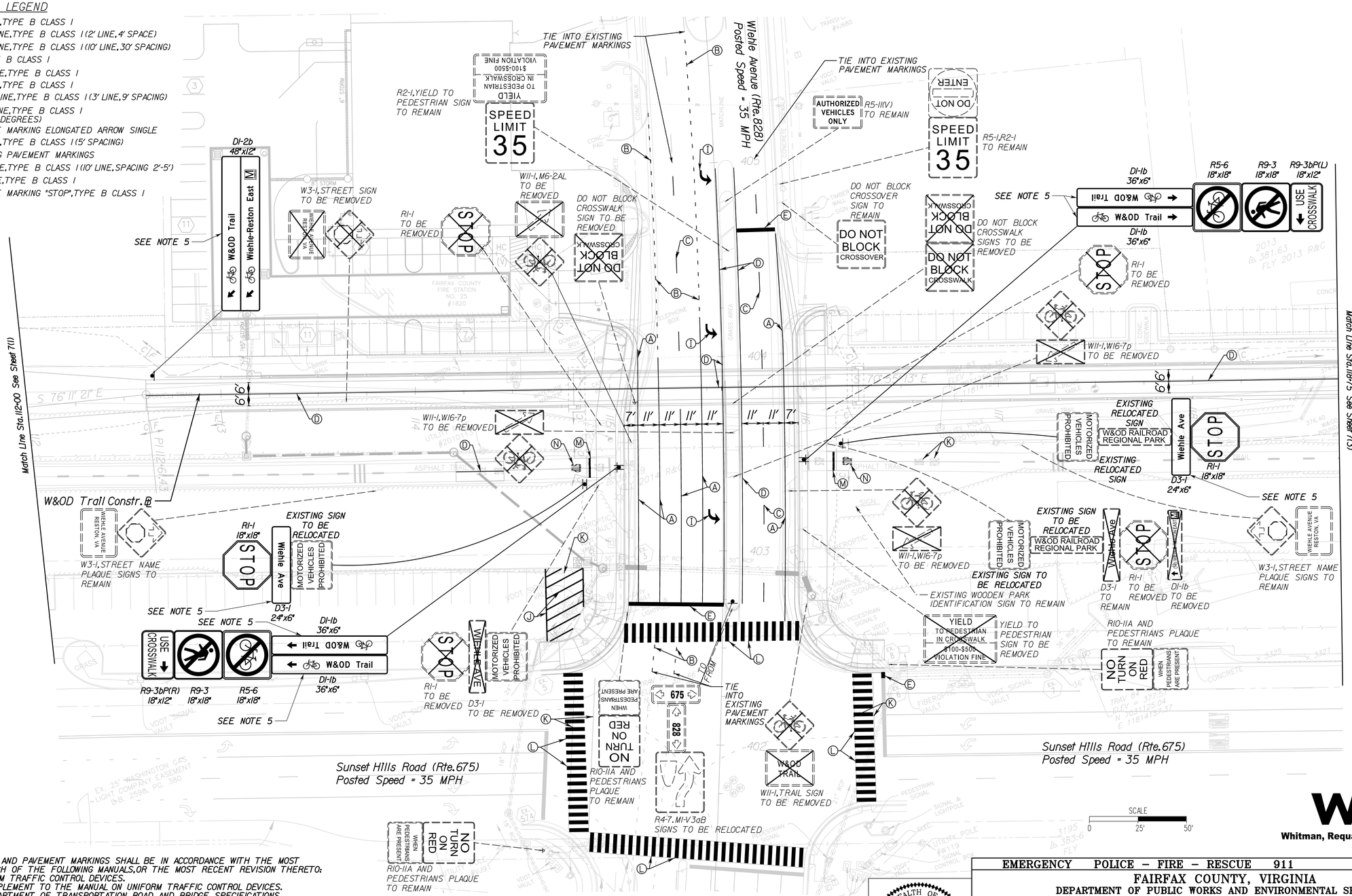
FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

SIGNING & PAVEMENT MARKING PLAN

PAVEMENT MARKING LEGEND

- (A) 4" WHITE SOLID LINE, TYPE B CLASS I
- (B) 4" WHITE DOTTED LINE, TYPE B CLASS I (2' LINE, 4' SPACE)
- (C) 4" BROKEN WHITE LINE, TYPE B CLASS I (10' LINE, 30' SPACING)
- (D) 4" YELLOW LINE, TYPE B CLASS I
- (E) 24" WHITE SOLID LINE, TYPE B CLASS I
- (F) 6" WHITE SOLID LINE, TYPE B CLASS I
- (G) 4" BROKEN YELLOW LINE, TYPE B CLASS I (3' LINE, 9' SPACING)
- (H) 24" YELLOW SOLID LINE, TYPE B CLASS I (20' SPACING AT 45 DEGREES)
- (I) PAVEMENT MESSAGE MARKING ELONGATED ARROW SINGLE
- (J) 8" WHITE SOLID LINE, TYPE B CLASS I (5' SPACING)
- (K) ERADICATE EXISTING PAVEMENT MARKINGS
- (L) 24" WHITE SOLID LINE, TYPE B CLASS I (10' LINE, SPACING 2'-5')
- (M) 18" WHITE SOLID LINE, TYPE B CLASS I
- (N) PAVEMENT MESSAGE MARKING "STOP", TYPE B CLASS I



Whitman, Requardt & Associates, LLP

NOTES:
1) ALL PROPOSED SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING MANUALS, OR THE MOST RECENT REVISION THERETO:
- A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- B. THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- C. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
- D. THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS.

2) EXISTING SIGNS WITHIN THE LIMITS OF THE CONTRACT WHICH HAVE NOT BEEN ACCOUNTED FOR IN THE PLAN SHALL BE RELOCATED OR REMOVED AS DIRECTED BY THE ENGINEER.

3) ALL COMPONENTS OF AN EXISTING SIGN INSTALLATION WHICH ARE REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT AN OFF-SITE LOCATION.

4) ALL SIGNS TO BE PLACED ON A STP-1-2 IN. 14 GA. POST UNLESS OTHERWISE NOTED.

5) SEE SHEET 7(4) FOR SIGN PANEL DETAILS.

6) ONE PARKING SPACE SHALL BE ERADICATED FROM VDOT PARK AND RIDE LOT AT STA 114+65 AS SHOWN ON THE PAVEMENT MARKING PLAN.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

COMMONWEALTH OF VIRGINIA
DANA TRONE OZLIN
Lic. No. 045607
PROFESSIONAL ENGINEER
Dana T Ozlin
2018.05.29 15:41:34 -04'00'
Whitman Requardt & Associates
Richmond, Virginia
TRAFFIC ENGINEER

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
SIGNING AND PAVEMENT MARKING PLAN

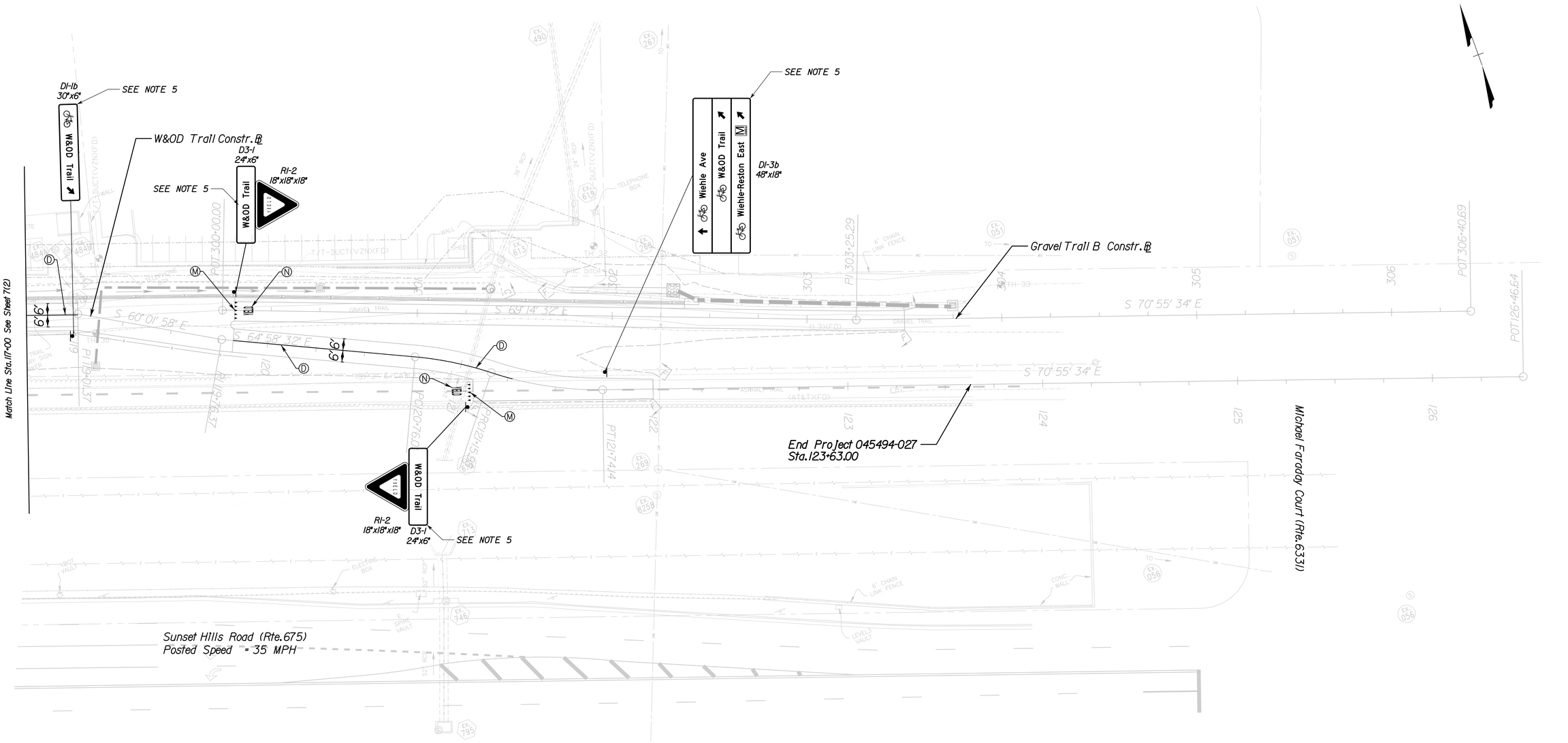
PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
1"=25'	DRAFTED: WRA	7(2)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER,P.E.(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY,NOVEMBER 28,2014 _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.(703)361-6005 DECEMBER 23,2014

SIGNING & PAVEMENT MARKING PLAN



SCALE
0 25' 50'

Whitman, Requardt & Associates, LLP

PAVEMENT MARKING LEGEND

- Ⓐ 4" WHITE SOLID LINE,TYPE B CLASS I
- Ⓑ 4" WHITE DOTTED LINE,TYPE B CLASS I(2' LINE,4' SPACE)
- Ⓒ 4" BROKEN WHITE LINE,TYPE B CLASS I(10' LINE,30' SPACING)
- Ⓓ 4" YELLOW LINE,TYPE B CLASS I
- Ⓔ 24" WHITE SOLID LINE,TYPE B CLASS I
- Ⓕ 6" WHITE SOLID LINE,TYPE B CLASS I
- Ⓖ 4" BROKEN YELLOW LINE,TYPE B CLASS I(3' LINE,9' SPACING)
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- Ⓘ PAVEMENT MESSAGE MARKING ELONGATED ARROW SINGLE
- Ⓙ 8" WHITE SOLID LINE,TYPE B CLASS I(5' SPACING)
- Ⓚ ERADICATE EXISTING PAVEMENT MARKINGS
- Ⓛ 24" WHITE SOLID LINE,TYPE B CLASS I(10' LINE,SPACING 2'-5')
- Ⓜ 18" WHITE YIELD LINE,TYPE B CLASS I
- Ⓝ PAVEMENT MESSAGE MARKING "YIELD",TYPE B CLASS I

NOTES:

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   B. THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
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5) SEE SHEET 7(4) FOR SIGN PANEL DETAILS.

COMMONWEALTH OF VIRGINIA
DANA TRONE OZLIN
Lic. No. 045607
PROFESSIONAL ENGINEER
Dana T Ozlin
2018.05.29 15:49:33 -04'00'
Whitman Requardt & Associates
Richmond, Virginia
TRAFFIC ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
SIGNING AND PAVEMENT MARKING PLAN
PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

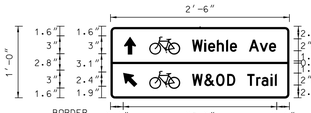
SCALE	DESIGNED: NDD	SHEET
1"=25'	DRAFTED: WRA	7(3)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER_ SCOTT RUFFNER,P.E.(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY,NOVEMBER 28,2014 _____
DESIGN BY _WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _SO DEEP,INC.(703)361-6005 DECEMBER 23,2014

SIGN PANEL DETAILS

SIGN DETAIL
1:10



SIGN NUMBER	D1-2b
WIDTH x HGHT.	2′-6″ x 1′-0″
BORDER WIDTH	0.38″
CORNER RADIUS	0.75″
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

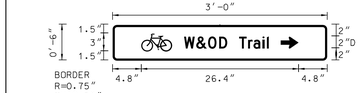
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	0	2.3	7.4	2	3
Bicycle	0	6.5	7.4	5.2	3
AR_Type D	45	2.1	1.9	2	3
Bicycle	0	6.5	1.6	5.2	3

Panel Style: D1-1b.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

W	i	e	h	i	e		A	v	e											LENGTH	SERIES-SIZE
13,7	15,7	16,4	17,8	19,4	20	21,2	23,2	25	26,6											14,1	D 2000 31,5
W	&	O	D		T	r	a	i	i												D 2000
13,7	15,7	17,7	19,6	20,9	22,9	24,4	25,3	26,8	27,6											14,2	31,5

SIGN DETAIL
1:10



SIGN NUMBER	D1-1b
WIDTH x HGHT.	3′-0″ x 0′-6″
BORDER WIDTH	0.38″
CORNER RADIUS	0.75″
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

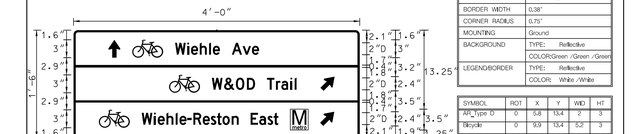
SYMBOL	ROT	X	Y	WID	HT
Bicycle	0	4.8	1.5	5.2	3
AR_Type D	270	28.2	2	2	3

Panel Style: D1-1b.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

W	&	O	D		T	r	a	i	i											LENGTH	SERIES-SIZE
12	14	16	17,9	19,2	21,2	22,7	23,6	25,2	25,9											14,2	D 2000 31,5

SIGN DETAIL
1:10



SIGN NUMBER	D1-3b
WIDTH x HGHT.	4′-0″ x 1′-6″
BORDER WIDTH	0.38″
CORNER RADIUS	0.75″
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /White

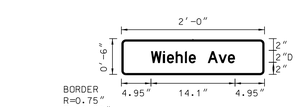
SYMBOL	ROT	X	Y	WID	HT
AR_Type D	0	5.8	13.4	2	3
Bicycle	0	9.9	13.4	5.2	3
Bicycle	0	16	7.5	5.2	3
AR_Type D	315	41.4	7.8	2	3
Bicycle	0	4.3	1.6	5.2	3
AR_Type D	315	41.4	1.9	2	3
M	0	36.4	1.25	3	3.5

Panel Style:
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

W	i	e	h	i	e		A	v	e											LENGTH	SERIES-SIZE
17	19,1	19,7	21,2	22,7	23,4	24,6	26,6	28,4	29,9											14,1	D 2000 31,5
W	&	O	D		T	r	a	i	i												D 2000
23,2	25,3	27,2	29,1	30,5	32,5	34	34,9	36,4	37,1											14,2	31,5
W	i	e	n	i	e	_	R	e	s	t	o	n		E	a	s	t				D 2000
11,4	13,5	14,1	15,6	17,1	17,8	19,1	20,1	21,7	23	24	25	26,5	27,7	29,7	31,1	32,5	33,6			22,9	31,5

SIGN DETAIL
1:10



SIGN NUMBER	D1-1b
WIDTH x HGHT.	2′-6″ x 0′-6″
BORDER WIDTH	0.38″
CORNER RADIUS	0.75″
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

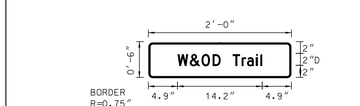
SYMBOL	ROT	X	Y	WID	HT
Bicycle	0	2.1	1.5	5.2	3
AR_Type D	315	25.5	1.8	2	3

Panel Style: D1-1b.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

W	&	O	D		T	r	a	i	i											LENGTH	SERIES-SIZE
9,3	11,3	13,3	15,2	16,5	18,5	20	20,9	22,5	23,2											14,2	D 2000 31,5

SIGN DETAIL
1:10



SIGN NUMBER	D1-1b
WIDTH x HGHT.	3′-0″ x 0′-6″
BORDER WIDTH	0.38″
CORNER RADIUS	0.75″
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	90	4.8	2	2	3
Bicycle	0	9.8	1.5	5.2	3

Panel Style: D1-1b.ssi
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

W	&	O	D		T	r	a	i	i											LENGTH	SERIES-SIZE
17	19	21	22,9	24,2	26,2	27,7	28,6	30,2	30,9											14,2	D 2000 31,5

SIGN DETAIL
1:10

SIGN NUMBER	D1-2b
WIDTH x HGHT.	4′-0″ x 1′-0″
BORDER WIDTH	0.38″
CORNER RADIUS	0.75″
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green /Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	45	4.3	7.7	2	3
Bicycle	0	8.6	7.4	5.2	3
AR_Type D	45	4.3	1.9	2	3
Bicycle	0	8.6	1.6	5.2	3
M	0	40.75	1.25	3	3.5

Panel Style:
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

W	&	O	D		T	r	a	i	i											LENGTH	SERIES-SIZE
15,8	17,9	19,8	21,7	23,1	25,1	26,6	27,5	29	29,7											14,2	D 2000 31,5
W	i	e	n	i	e	_	R	e	s	t	o	n		E	a	s	t				D 2000
15,8	17,9	18,5	20	21,5	22,2	23,5	24,5	26,1	27,4	28,4	29,4	30,9	32,1	34,1	35,5	36,9	37,9			22,9	31,5

SIGN DETAIL
1:10

SIGN NUMBER	D3-1
WIDTH x HGHT.	2′-0″ x 0′-6″
BORDER WIDTH	0.38″
CORNER RADIUS	0.75″
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style:
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

W	i	e	h	i	e		A	v	e											LENGTH	SERIES-SIZE
5	7	7,6	9,1	10,7	11,3	12,5	14,5	16,3	17,9											14,1	D 2000 31,5

SIGN DETAIL
1:10

SIGN NUMBER	D3-1
WIDTH x HGHT.	2′-0″ x 0′-6″
BORDER WIDTH	0.38″
CORNER RADIUS	0.75″
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style:
Dimensions are in inches,tenths
Letter locations are panel-edge to lower left corner

LETTER POSITIONS (X)

W	&	O	D		T	r	a	i	i											LENGTH	SERIES-SIZE
4,9	6,9	8,9	10,8	12,1	14,1	15,6	16,5	18,1	18,8											14,2	D 2000 31,5

Whitman, Requardt & Associates, LLP

COMMONWEALTH OF VIRGINIA
DANA TRONE OZLIN
Lic. No. 045607
PROFESSIONAL ENGINEER

Dana T Ozlin
2018.05.29 15:42:43 -04'00'

Whitman Requardt & Associates
Richmond, Virginia
TRAFFIC ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
SIGNING AND PAVEMENT MARKING PANEL DETAILS
PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
N.T.S.	DRAFTED: WRA	7(4)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

TRAFFIC SIGNAL MODIFICATION PLAN

GENERAL NOTES - SIGNAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE CURRENT EDITION OF THE VIRGINIA SUPPLEMENT TO THE MUTCD, THE CURRENT EDITION OF THE VDOT ROAD AND BRIDGE STANDARDS, THE CURRENT EDITION OF VDOT ROAD AND BRIDGE SPECIFICATIONS, AND SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS UTILITY AND VDOT FOR SCHEDULING THE LOCATION OF UNDERGROUND UTILITIES. ALL UTILITIES MUST BE MARKED PRIOR TO INITIATION OF ANY CONSTRUCTION.
3. PRIOR TO BEGINNING ANY SIGNALIZATION WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING FIVE WORKING DAYS PRIOR TO COMMENCING ANY WORK AT AN EXISTING SIGNAL, AND PROVIDE THE FOLLOWING:

   a. CONTRACTOR DAYTIME AND EMERGENCY TELEPHONE NUMBERS.
   b. LOCATION OF INTERSECTION WHERE WORK IS TAKING PLACE.
4. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING TRAFFIC SIGNAL EQUIPMENT (INCLUDING POWER AND COMMUNICATIONS) UNLESS OTHERWISE NOTED ON THE PLANS. INSTALLATION OF EQUIPMENT SHALL NOT DISRUPT OPERATION OF EXISTING SIGNAL UNLESS APPROVED BY THE ENGINEER.
5. ALL PROPOSED SIGNAL EQUIPMENT SHALL BE INSTALLED PRIOR TO DEACTIVATION OF EXISTING SIGNAL FOR WIRING SWITCH OVER. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO HAVE VDOT'S NROIC PERSONNEL PRESENT DURING SWITCHOVER (703-334-0882, BETWEEN 5:00 AM AND 7:00 PM, MONDAY-FRIDAY). A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED. THE CONTRACTOR SHALL HAVE HIS QUALIFIED REPRESENTATIVE PRESENT TO MONITOR TRAFFIC FLOW AND ADJUST TIMINGS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DETECTION ON ALL APPROACHES TO THE INTERSECTION AT ALL TIMES AND THROUGHOUT ALL PHASES OF CONSTRUCTION. COORDINATED SIGNAL OPERATIONS SHALL BE MAINTAINED AT ALL TIMES, ONCE MODIFICATIONS ARE STARTED, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE TRAFFIC SIGNAL IS ACCEPTED INTO THE VDOT SIGNAL SYSTEM.
7. THE PROJECT SHALL BE RESPONSIBLE FOR MAINTAINING COMMUNICATION TO THE TRAFFIC SIGNAL CONTROLLER AT ALL TIMES. THE PROJECT IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MAINTAINING COMMUNICATION TO THE TRAFFIC SIGNAL. THE PROJECT SHALL CONTACT VDOT'S NORTHERN REGION OPERATIONS COMMUNICATIONS GROUP at NOVATFOCOMM@VDOT.VIRGINIA.GOV NINETY (90) DAYS PRIOR TO THE START OF THE TRAFFIC SIGNAL CONSTRUCTION TO IDENTIFY THE DESIGNATED COMMUNICATION PROVIDER AND TO INITIATE THE BROADBAND CIRCUIT ORDERING PROCESS.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL MOT ASSOCIATED WITH THE INSTALLATION OF THE PROPOSED TRAFFIC SIGNAL EQUIPMENT.
9. EXISTING CCTV SHALL REMAIN OPERATIONAL AND FULLY FUNCTIONAL WITHOUT INTERRUPTION FOR THE DURATION OF CONSTRUCTION.

SIGNAL NOTES

A. POLES AND FOUNDATIONS

1. MAST ARM LENGTHS ARE TO BE INSTALLED AS SHOWN ON PLAN AND ALL MAST ARMS ARE TO BE FIELD DRILLED ONLY. MAST ARM LENGTH IS SHOWN NEXT TO EACH MAST ARM IN THE PLAN VIEW.
2. SIGNAL POLES TO BE INSTALLED WITH EIGHT BOLT BASE FLANGES ON EIGHT BOLT CONCRETE FOUNDATIONS.
3. ALL BREAKAWAY POLES SHALL HAVE BREAKAWAY FUSES.
4. ALL PEDESTAL POLES, ST'D PF-2, FOR PEDESTRIAN EQUIPMENT, SHALL BE 12 FT.
5. ALL PROPOSED MAST ARMS, MAST ARM POLES, AND PEDESTAL POLES SHALL BE PAINTED TO MATCH EXISTING POLES.

B. CONTROLLER AND FOUNDATION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POWER TO THE CONTROLLER AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR ANY COSTS RELATED TO MAINTAINING POWER TO THE TRAFFIC SIGNAL.
2. THE FINAL SIGNAL TIMING PLAN INCLUDES EIGHT (8) TIME-OF-DAY TIMING PLANS TO REFLECT CYCLE LENGTHS NECESSARY TO ACCOMMODATE CHANGES IN TRAFFIC PATTERNS FOR WEEKDAYS AND WEEKENDS. THE EIGHT TIMING PLANS CONSIST OF FOUR TIMING PLANS FOR WEEKDAYS (AM, MID, PM, OFF-PEAK) AND FOUR TIMING PLANS FOR WEEKENDS (SATURDAY PEAK, SUNDAY PEAK, WEEKEND BEFORE PEAK, AND WEEKEND AFTER PEAK). THESE TIMING PLANS SHALL BE FIRST SUBMITTED TO THE VDOT PERMITS SECTION. THE PERMIT SECTION WILL THEN NOTIFY THE NRO TRAFFIC SIGNAL OPERATIONS SECTION FOR REVIEW AND APPROVAL NO MORE THAN SIX (6) MONTHS PRIOR TO PROJECT COMPLETION AND NO LESS THAN SIXTY (60) DAYS PRIOR TO THE ACTIVATION OF THE TRAFFIC SIGNAL.

C. TRAFFIC SIGNAL HEADS

1. ALL TRAFFIC SIGNAL HEADS SHALL BE CAST ALUMINUM.
2. ALL SIGNAL HEADS SHALL HAVE POLYCARBONATE BACKPLATES. BACKPLATE HARDWARE SHALL BE STAINLESS STEEL.
3. PEDESTRIAN SIGNAL HEADS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SMB-3.
4. PEDESTRIAN PUSHBUTTONS SHALL BE ACCESSIBLE PEDESTRIAN SYSTEM (APS) EQUIPMENT MEETING ALL OF THE REQUIREMENTS OF THE MUTCD, VIRGINIA SUPPLEMENT TO THE MUTCD, ADA, AND THE CONTRACT SPECIAL PROVISIONS. PEDESTRIAN PUSHBUTTONS SHALL BE INSTALLED IN ACCORDANCE WITH PA-2 OR PA-4 AS SPECIFIED AND SHALL BE IN ACCORDANCE WITH MUTCD, ADA, AND VDOT SPECIFICATIONS.

D. DETECTORS

1. 6'X40' LOOP DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH ST'D. TD-1C AND SHALL BE PLACED 5' IN FRONT OF THE STOP BAR. 6'X6' LOOP DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH VDOT ST'D TD-1B AND SHALL BE PLACED 40' BEHIND THE STOP BAR (UNLESS OTHERWISE DIMENSIONED ON THE PLAN).
2. 14/1 ENCLOSED CONDUCTOR CABLE LEAD IN REQUIRES A 5/8" SAW CUT.
3. LOOP DETECTOR AMPLIFIERS SHALL BE ONE FOR EACH LOOP EXCEPT THAT WHEN THERE ARE SETS OF 6' X 6' LOOPS. ONLY THE SET FARTHEST FROM THE STOP BAR SHALL HAVE SEPARATE AMPLIFIER UNITS. ALL OTHER 6' X6' SETS SHALL BE SPLICES IN SERIES.

E. CONDUIT, CONDUCTORS, AND ELECTRICAL

1. THE PROJECT SHALL BE RESPONSIBLE FOR MAINTAINING ELECTRICAL SERVICE TO THE CONTROLLER AT ALL TIMES. THE PROJECT SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH MAINTAINING ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL. THE NOVA SPEC. SE-5 ELECTRICAL SERVICE SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD SE-5 SHOWN ON THE PLAN AND SECTION 238.02(H) OF THE VDOT ROADS AND BRIDGES SPECIFICATIONS. ELECTRICAL SERVICE SHALL BE METERED.
2. JUNCTION BOX COVERS SHALL HAVE THE LETTERS "TRAF" CAST IN THE TOP SURFACE DEPRESSION FOR ALL THE SIGNAL RELATED JUNCTION BOXES CONTAINING CABLE WITH LESS THAN 50 VOLTS. ALL OTHER JUNCTION BOX COVERS SHALL HAVE THE LETTERS "ELEC" CAST IN THE TOP SURFACE DEPRESSION.
3. ALL JUNCTION BOXES SHALL BE INSTALLED IN ACCORDANCE WITH ST'D JB-S2 UNLESS OTHERWISE NOTED.
4. NO JB-S1, S2, OR S3 SHALL BE INSTALLED IN A PAVED SHOULDER, SIDEWALK, OR MULTI-PURPOSE TRAIL.
5. (S) DENOTES SHIELDED CABLE. (M) DENOTES METAL CONDUIT. (EGC) DENOTES EQUIPMENT GROUNDING CONDUCTOR. (E) DENOTES EXISTING)
6. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH ST'D. ECI-1.
7. FOR INSTALLATION OF CONDUIT, NO OPEN CUT WILL BE ALLOWED IN ROADWAY SURFACE.
8. ALL EXISTING CONDUIT NOT SHOWN FOR REUSE SHALL BE CAPPED AND ABANDONED.
9. ALL EXISTING WIRING NOT SHOWN FOR REUSE SHALL BE COMPLETELY REMOVED.
10. ALL PULL ROPE SHALL BE RATED AT 1100 LBS.
11. THE TRAFFIC SIGNAL WIRING AND ROADWAY LIGHTING WIRING SHALL USE SEPARATE CONDUITS AND JUNCTION BOXES. CONDUITS MAY SHARE COMMON TRENCHES AND BORE AS SHOWN ON THE PLAN.

F. SIGNS AND PAVEMENT MARKINGS

1. ALL MAST ARM MOUNTED SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH ST'D. SMD-2.
2. PAVEMENT MARKINGS SHALL BE MODIFIED TO REFLECT THE MARKINGS SHOWN ON THE PLAN WHEN THE SIGNAL IS INSTALLED.
3. ANY EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE COMPLETELY ERADICATED.
4. LIMITS SHOWN ON PROPOSED MARKING ARE APPROXIMATE AND SHALL BE MODIFIED IN THE FIELD TO ENSURE THAT PROPOSED PAVEMENT MARKINGS CONTINUE UNTIL EXISTING PAVEMENT MARKINGS CAN BE MATCHED.

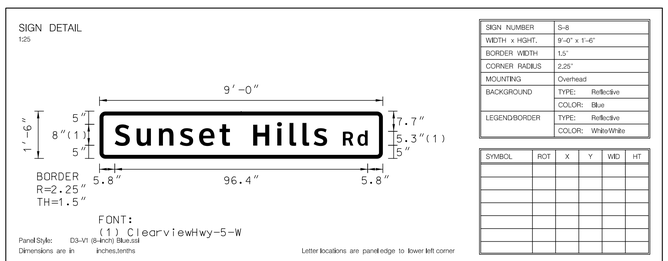
MOT NOTES

1. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE REMOVED OR RELOCATED AS THE WORK IS COMPLETED OR WORK CONDITIONS CHANGE. THE CONTRACTOR SHALL ENSURE THAT ALL TEMPORARY TRAFFIC CONTROL DEVICES REMAIN IN PLACE AND OPERATING AT ALL TIMES.
2. THE CONTRACTOR SHALL VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
3. ALL JUNCTION BOXES SHALL BE INSTALLED AT FINAL GRADE.
4. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF THE SIGNAL EQUIPMENT.
5. ALL EXISTING SIGNS NOT RELOCATED OR REMOVED SHALL REMAIN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL INSTALL CONDUIT AT SUFFICIENT DEPTH TO AVOID DISTURBANCE DURING ROADWAY CONSTRUCTION. CONDUIT SHALL BE INSTALLED PRIOR TO BEGINNING ROADWAY CONSTRUCTION.
7. NEW TRAFFIC SIGNAL HEADS AND OVERHEAD TRAFFIC SIGNAL SIGNAGE SHALL BE COVERED WITH DURABLE NON-TRANSPARENT COVER UPON INSTALLATION. THE CONTRACTOR SHALL MAINTAIN THE COVERS UNTIL THE NEW TRAFFIC SIGNAL SYSTEM IS OPERATIONAL.
8. THE CONTRACTOR SHALL NOT BLOCK THE VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF THE MAST ARMS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DETECTION ON ALL APPROACHES OF THE INTERSECTION AT ALL TIMES, AND THROUGHOUT ALL PHASES OF CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS.
10. MAINTENANCE AND REPAIR OF THE TRAFFIC SIGNAL AND ANY NECCESARY MODIFICATIONS DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

PLAN ITEM	PLAN SYMBOL: PROPOSED	PLAN SYMBOL: EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted In Signal Pole Legend)	⊙——	◎——
Pedestal Pole and Foundation (St'd. PF-2)	■	▣
Pedestal Pole and Foundation (St'd. PA-3)	⊙	◎
Traffic Signal Head w/ Backplate	●+►	○+▷
Traffic Signal Head w/o Backplate	●►	○▷
Pedestrian Signal Head	►	▷
Pedestrian Pushbutton & Sign	P.B.	P.B.
Traffic Signal Sign Mast Arm or Span Wire Mt'd.	⊣	⊣
Traffic Signal Sign Pole Mounted	⊣	⊣E
Video Detection Camera	■	
Emergency Vehicle Pre-emption (EVP) Sensor		
w/ Conf. Light	●◆	○◇
w/o Conf. Light	◆	◇
Controller Cabinet & Foundation (Std. CF-3)	C	C
Junction Box (St'd. as noted on plans)	J	J
Signal Luminaire (250 W) and Arm	✶—	✶—
Signal Luminaire (400 W) and Arm	✷—	✷—
Loop Detector (Size as noted on plans)	6'x 40'	6'x 40'
Video Detection Zone (Size as noted on plans)	Vbz 6'x 40'	Vbz 6'x 40'
Conduit	═══	┅┅┅

SIGN PANEL DETAILS

SIGN DETAIL
1:25



FONT:
(1) ClearviewHwy-5-W

Panel Style: D3-V1 (8-inch) Blue.ssl
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

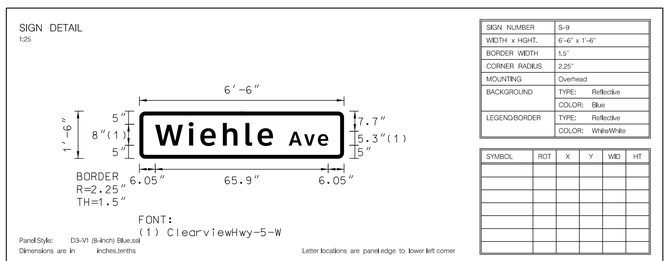
SIGN NUMBER	S-8
WIDTH x HGHT.	9'-0" x 1'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

S	u	n	s	e	t		H	i	l	l	s										LENGTH	SERIES/SIZE
5.8	14.1	22.6	30.6	37.9	45.8	49.7	58.6	67.7	72.4	77.3	81.6											ClearviewHwy-5-W
																					81	8/6.5
R	d																					ClearviewHwy-5-W
90.8	98.3																				9.5	5.3/4.3

SIGN DETAIL
1:25



FONT:
(1) ClearviewHwy-5-W

Panel Style: D3-V1 (8-inch) Blue.ssl
Dimensions are in inches.tenths
Letter locations are panel edge to lower left corner

SIGN NUMBER	S-9
WIDTH x HGHT.	6'-6" x 1'-6"
BORDER WIDTH	1.5"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)

W	i	e	h	l	e																LENGTH	SERIES/SIZE
6	18.8	23.2	31.8	40.4	45																44.9	8/6.5
A	v	e																				ClearviewHwy-5-W
56.9	62.8	68																			15	5.3/4.3

LABELS

Proposed Signal Head	②
Existing Signal Head	②
Proposed Pedestrian Signal Head	P2
Existing Pedestrian Signal Head	P2
Signal Pole or Controller	Ⓐ
Cable and Conduit	Ⓐ
Construction Notes	⚠
Signal Phasing	∅2
Sign	S-1

Whitman, Requardt & Associates, LLP

COMMONWEALTH OF VIRGINIA
DANA TRONE OZLIN
Lic. No. 045607
PROFESSIONAL ENGINEER

Dana T Ozlin
2018.05.29 15:43:12 -04'00'

Whitman Requardt & Associates
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EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
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703-324-5800

WIEHLE AVENUE (ROUTE 828) AT W&OD TRAIL
WIEHLE AVE. (ROUTE 828) AT SUNSET HILLS RD.
(ROUTE 675) SIGNAL PLAN

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE 1"=25'
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET 8(1)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 DECEMBER 23, 2014

TRAFFIC SIGNAL MODIFICATION PLAN

Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

(A) MAST ARM POLE, TYPE E (MP-3)
75.2' LT. of Wiehle Ave. (Rte. 828) Constr. ℄ Sta. 402+58
65' Arm 180° Angle to Wiehle Ave. (Rte. 828) Constr. ℄
Signal Placement: 28.5', 39.5', 50.5', 61.5'
Sign Placement: 15.5', 24.5', 46.5', 57.5'
18' Luminaire Arm 135° Angle to Wiehle Ave. (Rte. 828) Constr. ℄

(B) MAST ARM POLE, TYPE E (MP-3)
60.8' RT. of Wiehle Ave. (Rte. 828) Constr. ℄ Sta. 402+75
65' Arm 270° Angle to Wiehle Ave. (Rte. 828) Constr. ℄
Signal Placement: 22.5', 37.5', 52.5', 64.5'
Sign Placement: 11.5', 18.5'
18' Luminaire Arm 205° Angle to Wiehle Ave. (Rte. 828) Constr. ℄

(C) PEDESTAL POLE (PF-2), 12'
84.9' LT. of Wiehle Ave. (Rte. 828) Constr. ℄ Sta. 402+41

(D) PEDESTAL POLE (PF-2), 12'
55.4' LT. of Wiehle Ave. (Rte. 828) Constr. ℄ Sta. 402+65

(E) PEDESTAL POLE (PF-2), 12'
43.8' RT. of Wiehle Ave. (Rte. 828) Constr. ℄ Sta. 402+68

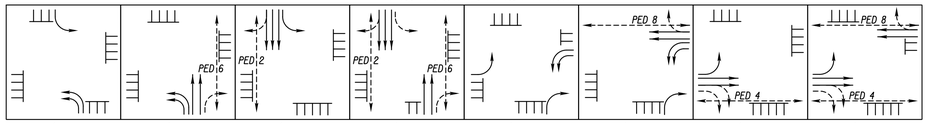
(F) PEDESTAL POLE (PF-2), 12'
79.0' RT. of Wiehle Ave. (Rte. 828) Constr. ℄ Sta. 402+45

NOTE: Luminaire(s) on combination signal pole(s) shall be 400 W H.P.S.

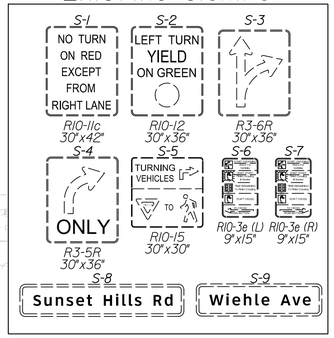
SIGNAL NOTES

1. REMOVE EXISTING SIGNAL POLES, MAST ARMS, SIGNS, SIGNAL HEADS AND REMOVE FOUNDATIONS 24" BELOW GRADE.
2. REMOVE EXISTING PEDESTAL POLES, PEDESTRIAN SIGNAL HEADS, SIGNS, AND REMOVE FOUNDATIONS 24" BELOW GRADE.
3. REMOVE EXISTING JUNCTION BOX.
4. FOR EXISTING CONDUITS THAT ARE NOT SCHEDULED FOR REUSE, REMOVE ALL CABLES AND CAP AND ABANDON CONDUITS.
5. REPLACE EXISTING PUSHBUTTON WITH ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSHBUTTON.

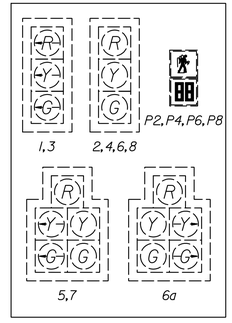
PHASING DIAGRAM

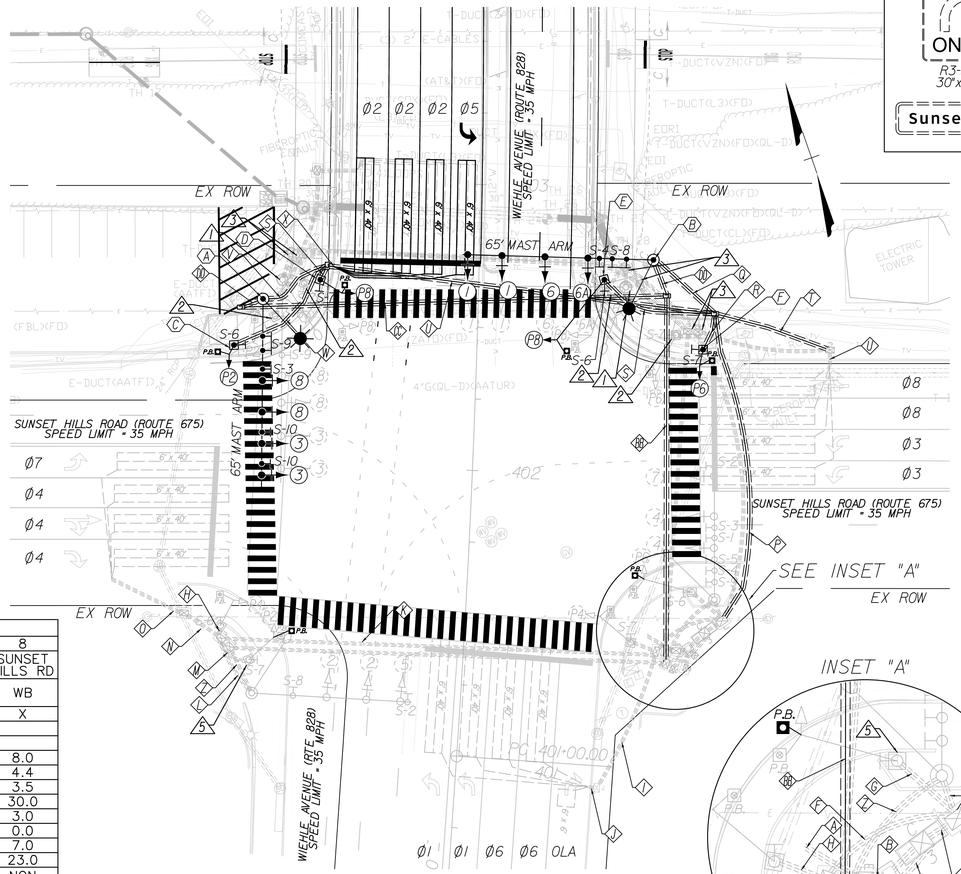


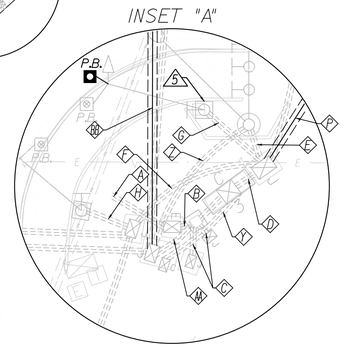
EXISTING SIGNING



EXISTING SIGNALS







CABLE AND CONDUIT LEGEND

(A) 2-2" CONDUITS STUBOUT FOR POWER (BY VEPCO) (E)
PULL ROPE (E)

(B) 1-1" (M) CONDUIT (FOR SIGNAL) (E)
3-#6 ELECTRICAL SERVICE CABLE (E)
1-1" (M) CONDUIT (FOR LIGHTING) (E)
3-#6 ELECTRICAL SERVICE CABLE (E)

(C) 3-1" CONDUITS (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(D) 1-4" CONDUIT (HIGH VOLTAGE SIGNAL LOAD CABLES - VEHICULAR AND PEDESTRIAN SIGNALS) (E)
1-4" CONDUIT (LOW VOLTAGE DETECTOR CABLES - LOOP DETECTORS AND PUSHBUTTONS) (E)
9-14/7c SIGNAL HEADS 1,2,3,4,5,6,6A,7,8 (E) (5 TO BE REMOVED)
5-14/7c SIGNAL HEADS 1,3,6,6A,8 (P)
8-14/7c PEDESTRIAN SIGNALS P2,P4,P6,P8 (E) (4 TO BE REMOVED)
4-14/7c PEDESTRIAN SIGNALS P2,P6,P8 (P)
8-14/2c PEDESTRIAN PUSHBUTTONS PB-2, PB-4, PB-6, PB-8 (E) (4 TO BE REMOVED)
4-14/2c PEDESTRIAN PUSHBUTTONS PB-2, PB-6, PB-8 (P)
17-14/2c (S) LOOP DETECTORS (E) (8 TO BE REMOVED)
8-14/2c (S) LOOP DETECTORS (P)
2-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(E) 1-3" CONDUIT (E)
2-14/7c SIGNAL HEADS 4,7 (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(F) 1-3" CONDUIT (E)
2-14/7c SIGNAL HEADS 2,5 (E)
3-14/7c PEDESTRIAN SIGNALS P2,P4,P6 (E)
3-14/2c PEDESTRIAN PUSHBUTTONS PB-2, PB-4, PB-6, (E)
9-14/2c (S) LOOP DETECTORS (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(G) 1-3" CONDUIT (E)
1-14/7c PEDESTRIAN SIGNALS P6 (E)
1-14/2c PEDESTRIAN PUSHBUTTONS PB-6 (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(H) 1-3" CONDUIT (E)
1-14/7c PEDESTRIAN SIGNALS P4 (E)
1-14/2c PEDESTRIAN PUSHBUTTONS PB-4 (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(I) 1-3" CONDUIT (E)
5-14/2c (S) LOOP DETECTORS (E)

(J) 5-1" (M) CONDUIT (E)

(K) 1-4" CONDUIT (DIRECT BORE) (E)
2-14/7c SIGNAL HEADS 2,5 (E)
2-14/7c PEDESTRIAN SIGNAL P2,P4 (E)
2-14/2c PEDESTRIAN PUSH BUTTON PB-2, PB-4 (E)
4-14/2c (S) LOOP DETECTORS (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)
1-2" CONDUIT (DIRECT BORE) (E)
1-8/1c FOR LUMINAIRES (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(L) 1-3" CONDUIT (E)
2-14/7c SIGNAL HEADS 2,5 (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(M) 1-3" CONDUIT (E)
1-14/7c PEDESTRIAN SIGNAL P2 (E)
1-14/2c PEDESTRIAN PUSH BUTTON PB-2 (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(N) 1-3" CONDUIT (E)
4-14/2c (S) LOOP DETECTORS (E)

(O) 4-1" (M) CONDUIT (E)

(P) 1-4" CONDUIT (DIRECT BORE) (P)
5-14/7c SIGNAL HEADS 1,3,6,6A,8 (P)
4-14/7c PEDESTRIAN SIGNALS P2,P6,P8 (P)
4-14/2c PEDESTRIAN PUSHBUTTONS PB-2, PB-6, PB-8 (P)
8-14/2c (S) LOOP DETECTORS (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(Q) 1-3" CONDUIT (P)
3-14/7c SIGNAL HEADS 1,6,6A (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(R) 1-3" CONDUIT (P)
1-14/7c PEDESTRIAN SIGNALS P6 (P)
1-14/2c PEDESTRIAN PUSHBUTTONS PB-6 (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(S) 1-3" CONDUIT (P)
1-14/7c PEDESTRIAN SIGNALS P8 (P)
1-14/2c PEDESTRIAN PUSHBUTTONS PB-8 (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(T) 1-3" CONDUIT (P)
4-14/2c (S) LOOP DETECTORS (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(U) 1-4" CONDUIT (DIRECT BORE) (P)
2-14/7c SIGNAL HEADS 3,8 (P)
2-14/7c PEDESTRIAN SIGNALS P2,P8 (P)
2-14/2c PEDESTRIAN PUSHBUTTONS PB-2, PB-8 (P)
4-14/2c (S) LOOP DETECTORS (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(V) 1-3" CONDUIT (P)
2-14/7c SIGNAL HEADS 3,8 (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(W) 1-3" CONDUIT (P)
1-14/7c PEDESTRIAN SIGNALS P2 (P)
1-14/2c PEDESTRIAN PUSHBUTTONS PB-2 (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(X) 4-1" (M) CONDUIT (P)

(Y) 1-1" (M) CONDUIT (FOR COMMUNICATIONS) (E)
PULL ROPE (E)

(Z) 1-2" CONDUIT (E)
1-8/1c FOR LUMINAIRES (E)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(AA) 1-2" CONDUIT (E)
4-8/1c FOR LUMINAIRES (E) (2 TO BE REMOVED)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (E)

(BB) 1-2" CONDUIT (DIRECT BORE) (P)
2-8/2c FOR LUMINAIRES (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(CC) 1-2" CONDUIT (DIRECT BORE) (P)
1-8/2c FOR LUMINAIRES (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(DD) 1-2" CONDUIT (P)
1-8/2c FOR LUMINAIRES (P)
1-#6 AWG (EGC) FOR SYSTEM GROUNDING (P)

(E) - EXISTING (P) - PROPOSED
(M) - METAL (S) - SHIELDED

INITIAL TIMING CHART

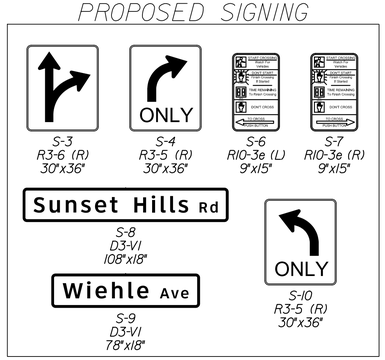
PHASE	1	2	3	4	5	6	7	8
MOVEMENT	WIEHLE AVE NB LEFT	WIEHLE AVE SB	SUNSET HILLS RD WB LEFT	SUNSET HILLS RD EB	WIEHLE AVE SB LEFT	WIEHLE AVE NB	SUNSET HILLS RD EB LEFT	SUNSET HILLS RD WB
PHASE ON	X	X	X	X	X	X	X	X
PHASE OFF								
INTERVAL	PHASE TIMINGS							
MIN GR	5.0	15.0	8.0	8.0	5.0	15.0	5.0	8.0
AMBER	3.5	4.5	3.2	4.4	4.5	4.5	4.4	4.4
RED	3.3	3.6	4.4	3.5	3.6	3.6	3.5	3.5
MAX	30.0	40.0	30.0	30.0	30.0	40.0	30.0	30.0
PASSAGE	2.0	4.0	4.0	3.0	2.0	3.0	3.0	3.0
MIN GAP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PED WALK	-	7.0	-	8.0	-	7.0	-	7.0
PED FDW	-	22.0	-	30.0	-	15.0	-	23.0
MODE	NON LOCK	MIN RECALL	NON LOCK	NON LOCK	NON LOCK	MIN RECALL	NON LOCK	NON LOCK

Color Sequence Chart

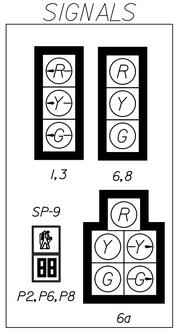
SIGNAL	PHASES 1	2	3	4	5	6	7	8	COMBINATIONS 1-5	1-6	2-5	2-6	3-7	3-8	4-7	4-8	FLASH
1	-G								-G	-G							
2		G									G	G					Y
3			-G										-G	-G			
4				G											G	G	
5		G			-G	R			-G R		-G G	G					Y
6						G				G		G					Y
6a			R -G			G				G		G	R -G	R -G			Y
7				G			-G	R					-G R		-G G	G	
8								G						G		G	
P2		W									W	W					BLANK
P4				W											W	W	BLANK
P6						W				W		W					BLANK
P8								W						W		W	BLANK

Empty box denotes RED indication.
Walk indication displayed after pedestrian call is serviced; otherwise "DON'T WALK" indication is displayed.

PROPOSED SIGNING



PROPOSED SIGNALS



SCALE
0 25' 50'

WRA
Whitman, Requardt & Associates, LLP

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

COMMONWEALTH OF VIRGINIA
DANA TRONE OZLIN
Lic. No. 045607
PROFESSIONAL ENGINEER

Dana T Ozlin
2018.05.29 15:43:42 -04'00'
Whitman Requardt & Associates
Richmond, Virginia
TRAFFIC ENGINEER

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (ROUTE 828) AT W&OD TRAIL
WIEHLE AVE. (ROUTE 828) AT SUNSET HILLS RD. (ROUTE 675) SIGNAL PLAN

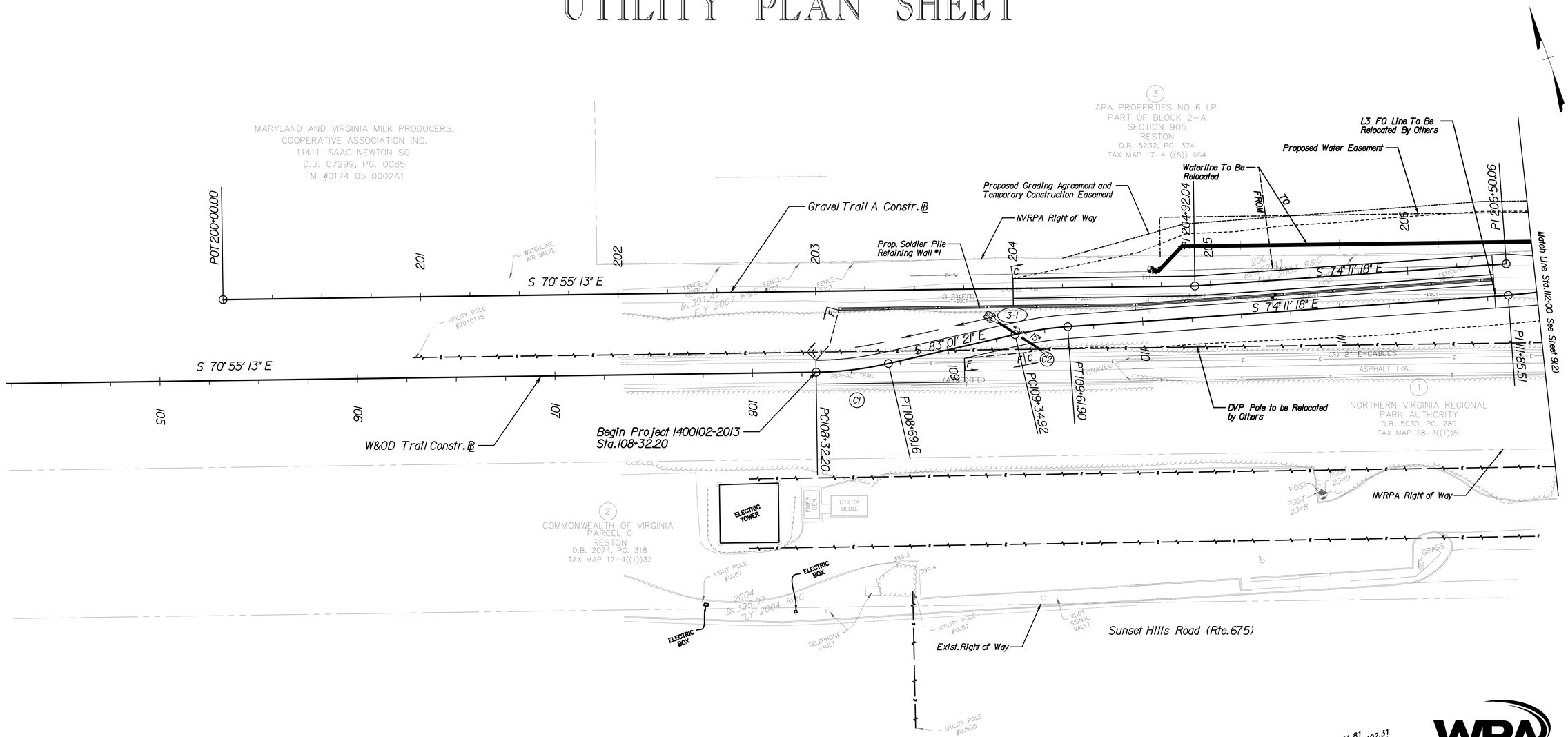
PROJECT NO: 1400102-2013

SCALE 1"=25'
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET 8(2)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28,2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23,2014

UTILITY PLAN SHEET



Whitman, Requardt & Associates, LLP

SCALE
0 25' 50'

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

LEGEND

C _____ Denotes Construction Limits In Cuts
F _ _ _ Denotes Construction Limits In Fills
——→ Denotes Proposed Graded "V" Ditch

(C1) Curve W0&D-1
PI = 108+50.75
DELTA = 12° 06' 08.46" (LT)
D = 32° 44' 26"
T = 18.55'
L = 36.96'
R = 175.00'
PC = 108+32.20
PT = 108+69.16

(C2) Curve W0&D-2
PI = 109+48.44
DELTA = 8° 50' 03.43" (RT)
D = 32° 44' 26"
T = 13.52'
L = 26.98'
R = 175.00'
PC = 109+34.92
PT = 109+61.90

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
UTILITY PLAN SHEET

PROJECT NO: 1400102-2013

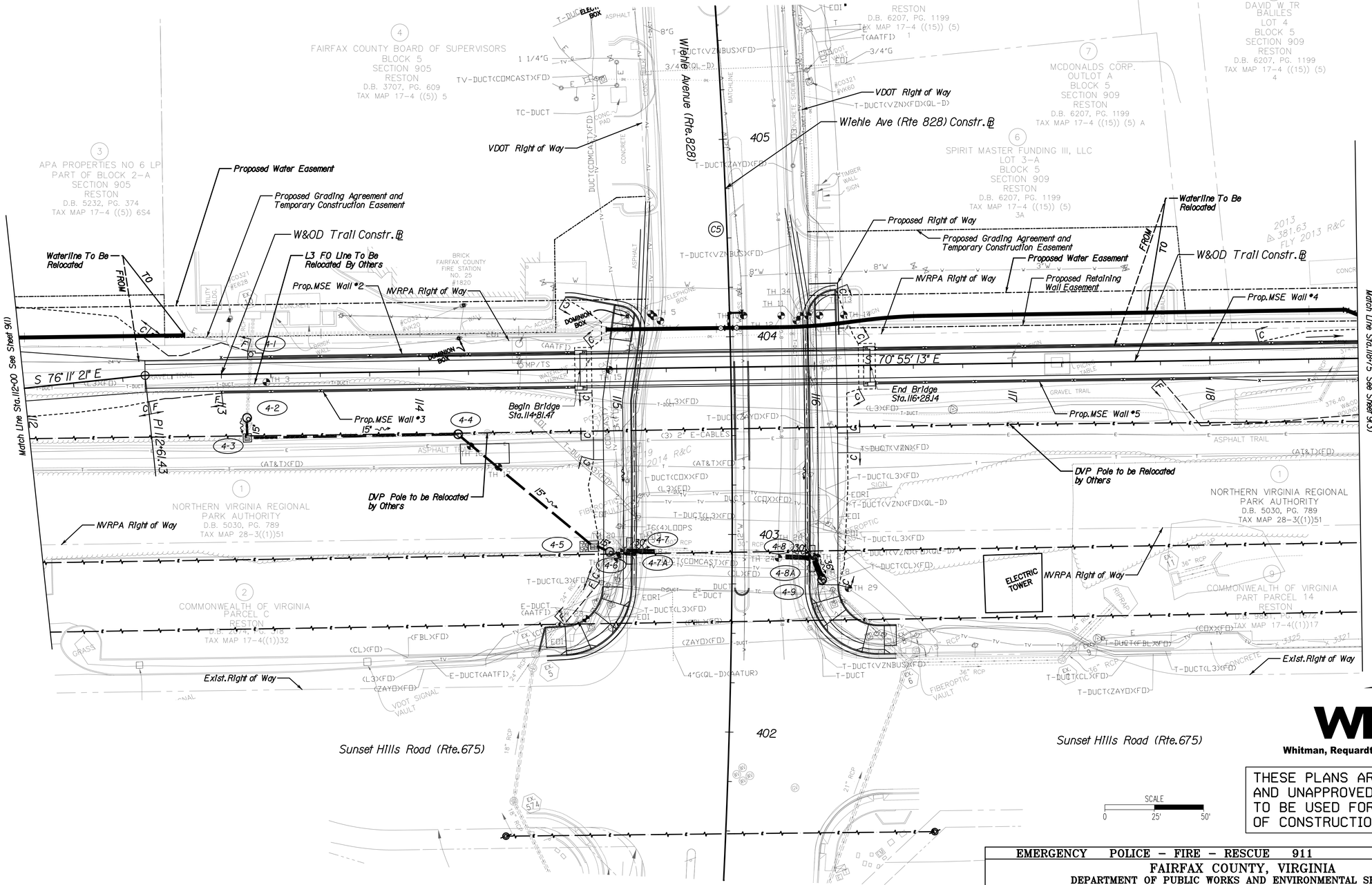
REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE
	APPROVED BY THE TRANSPORTATION DESIGN DIVISION			

SCALE 1"=25'
DESIGNED: NDD
DRAFTED: WRA
CHECKED: RBH
SHEET 9(1)

FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

UTILITY PLAN SHEET



LEGEND

- C _____ Denotes Construction Limits In Cuts
- F _ _ _ Denotes Construction Limits In Fills
- ——→ Denotes Proposed Graded "V" Ditch

(C5) Curve WIEHLE-1
PI = 403+89.81
DELTA = 8° 35' 10.7" (LT)
D = 1° 29' 03"
T = 289.81'
L = 578.53'
R = 3,860.50'
PC = 401+00.00
PT = 406+78.53

Whitman, Requardt & Associates, LLP

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

SCALE 0 25' 50'

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
UTILITY PLAN SHEET

PROJECT NO: 1400102-2013

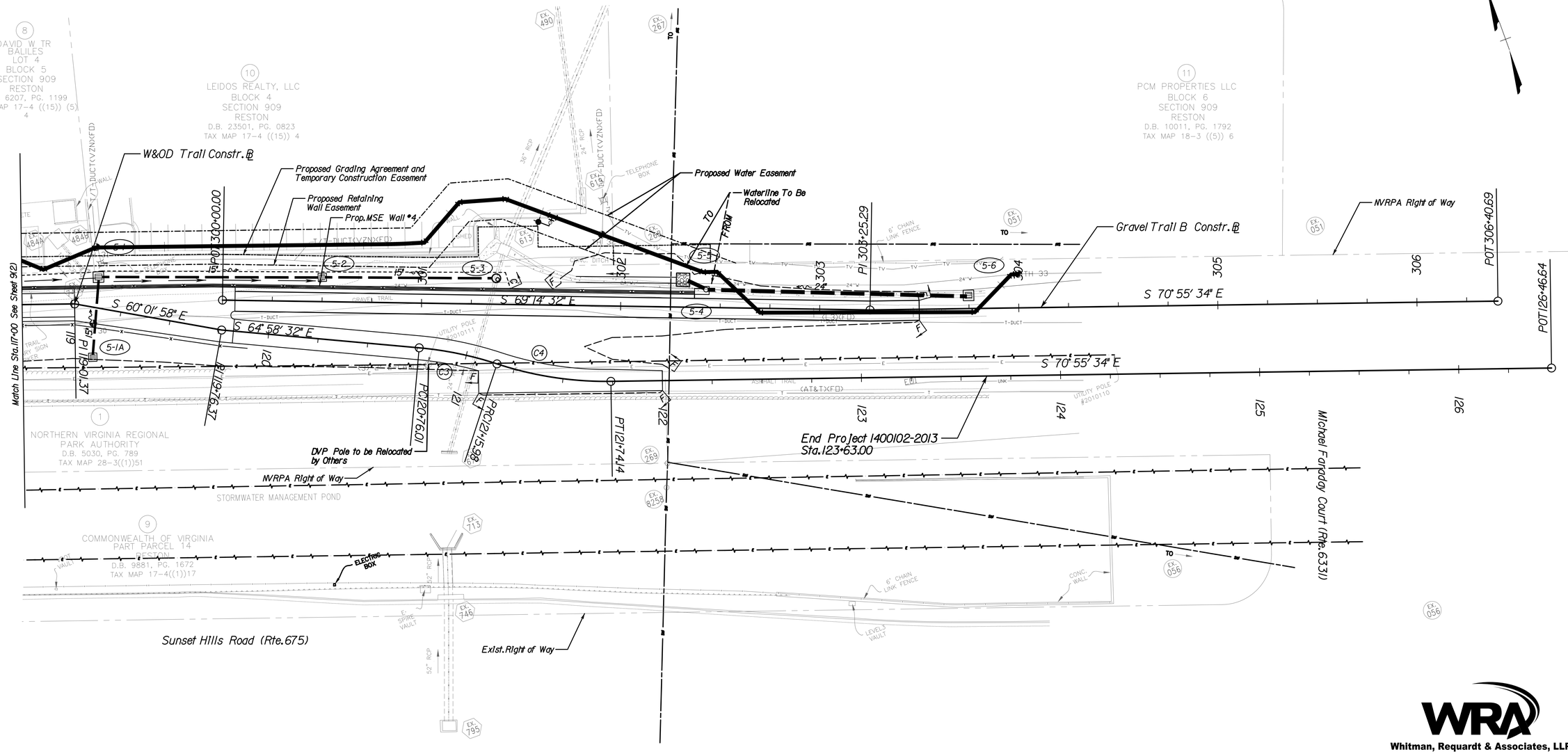
REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE
	APPROVED BY THE TRANSPORTATION DESIGN DIVISION			

SCALE	DESIGNED: NDD	SHEET
1"=25'	DRAFTED: WRA	9(2)
	CHECKED: RBH	

FUND # 500-C5000

PROJECT MANAGER_ SCOTT RUFFNER,P.E.,(703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _FAIRFAX COUNTY, NOVEMBER 28,2014 _ _ _ _ _ _ _ _
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23,2014

UTILITY PLAN SHEET



LEGEND

C _____ Denotes Construction Limits In Cuts
F ___ Denotes Construction Limits In Fills
——→ Denotes Proposed Graded "V" Ditch

(C3) Curve W0&D-3
PI = 120+96.08
DELTA = 13° 05' 20.81" (RT)
D = 32° 44' 26"
T = 20.08'
L = 39.98'
R = 175.00'
PC = 120+76.01
PRC = 121+15.98

(C4) Curve W0&D-4
PI = 121+45.33
DELTA = 19° 02' 22.55" (LT)
D = 32° 44' 26"
T = 29.35'
L = 58.15'
R = 175.00'
PRC = 121+15.98
PT = 121+74.14

SCALE
0 25' 50'

Whitman, Requardt & Associates, LLP

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EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

REVISIONS	△#	DESCRIPTION	BY	APPROVED	DATE
		APPROVED BY THE TRANSPORTATION DESIGN DIVISION			

OFFICE OF CAPITAL FACILITIES
703-324-5800

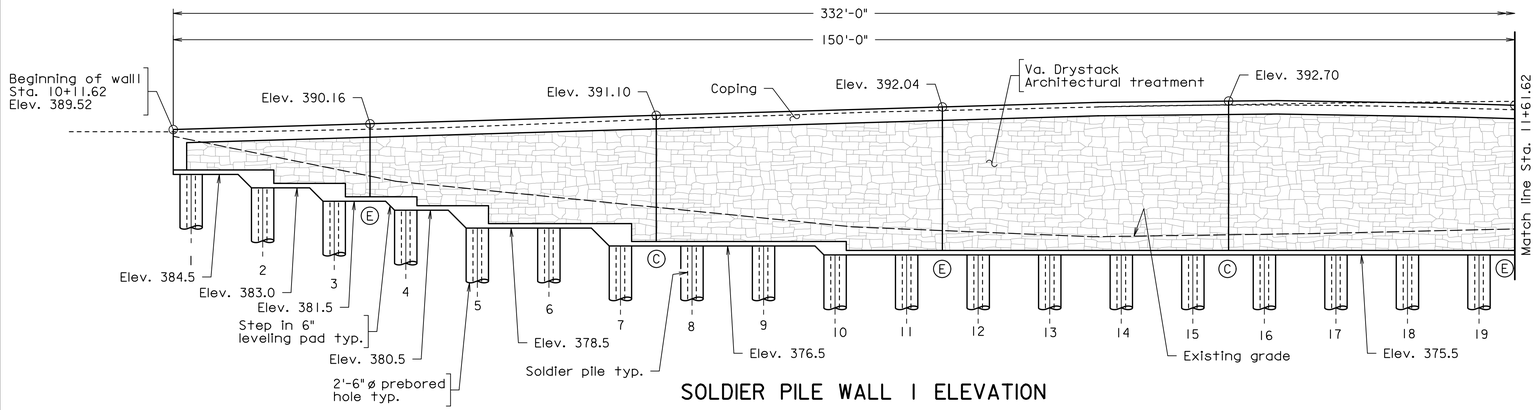
WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
UTILITY PLAN SHEET

PROJECT NO: 1400102-2013

SCALE	DESIGNED: NDD	SHEET
1"=25'	DRAFTED: WRA	9(3)
	CHECKED: RBH	

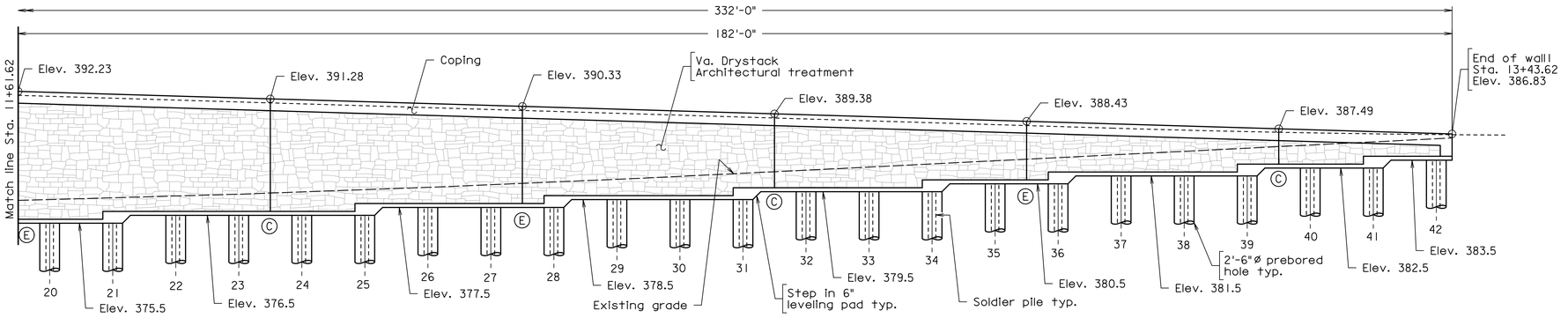
FUND # 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014



SOLDIER PILE WALL 1 ELEVATION

Scale: 1/8" = 1'-0"



SOLDIER PILE WALL 1 ELEVATION

Scale: 1/8" = 1'-0"

WALL 1 GENERAL NOTES:

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

All structural steel shall be ASTM A709 Grade 50 and shall be galvanized.

Concrete for leveling pad and wall facing shall be Class A4.

All reinforcing steel shall be deformed and shall conform to ASTM A615, Grade 60. All reinforcing bar dimensions on the detailed drawings are to centers of bars except where otherwise noted and are subject to fabrication and construction tolerances.

Stations shown along wall are referencing Wall 1 Construction ℄.

Chamfer exposed edges of concrete facing 3/4" x 3/4" unless otherwise noted.

Contractor shall coordinate wall construction with other elements of work as decribed on the plans here-in.

Contractor shall notify owner/engineer of any conflicts with the construction of this wall with existing structures to remain or existing or proposed utilities. Contractor shall not proceed with the affected portion of work until the conflict has been resolved by all affected parties.

Timber lagging shall be pressure treated for ground contact in accordance with section 236 of the Specifications.

For plan location of Wall 1, see sheet 10(2).

The Contractor shall submit the means of horizontally locating and installing the piles, such that the piles can be installed to a tolerance which enables the wall to be constructed as shown. Piles shall be installed within 1 inch of their horizontal location, within 25 degrees of their planned axis, and shall not be out of plumb more than 0.75 inches in 10 feet. If the Contractor chooses to prebore, the holes shall be backfilled with T-3 concrete. Cost of preboring and T-3 concrete backfill shall be incidental to other pay items.

LEGEND:

(E) Denotes location of Expansion Joint.

(C) Denotes location of Contraction Joint.

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
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12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
SOLDIER PILE WALL 1
ELEVATION

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: WRA	SHEET
XXX-XX	DRAFTED: WRA	10(1)
	CHECKED: WRA	

FUND # 500-C5000

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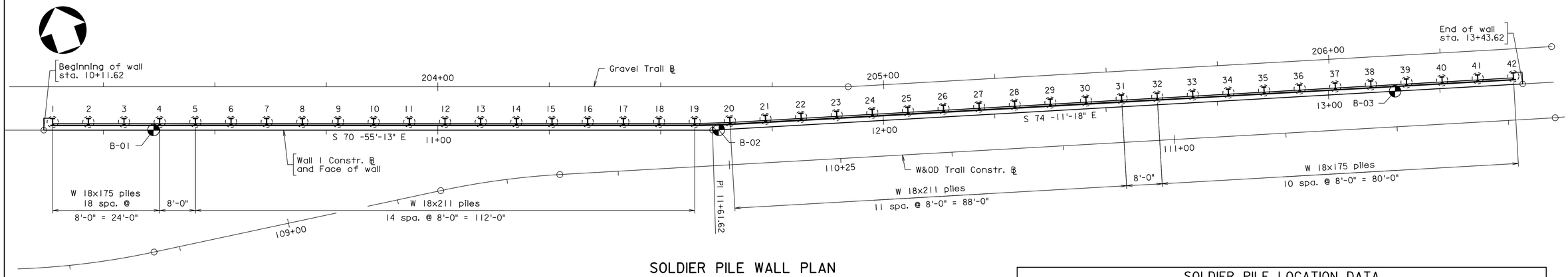
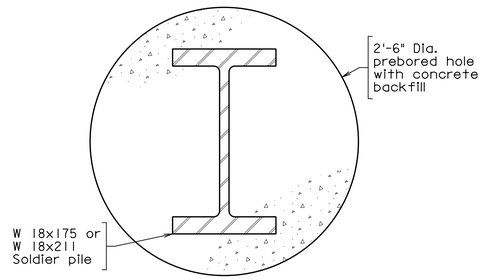
PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703) 877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703) 293-9717 ___
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC,(703) 361-6005 December 23, 2014



SOLDIER PILE WALL PLAN

Scale: 1/32 "=1'-0"



TYPICAL SOLDIER PILE SECTION

Not to scale

SOLDIER PILE LOCATION DATA

Soldier Pile No.	Station	Offset	Bottom Tip Elev.	Soldier Pile No.	Station	Offset	Bottom Tip Elev.
1	10+13.62	1.84 Lt.	371.5	22	11+81.62	1.86 Lt.	358.5
2	10+21.62	1.84 Lt.	370.0	23	11+89.62	1.86 Lt.	358.5
3	10+29.62	1.84 Lt.	368.5	24	11+97.62	1.86 Lt.	358.5
4	10+37.62	1.84 Lt.	367.5	25	12+05.62	1.86 Lt.	358.5
5	10+45.62	1.86 Lt.	359.0	26	12+13.62	1.86 Lt.	359.5
6	10+53.62	1.86 Lt.	359.0	27	12+21.62	1.86 Lt.	359.5
7	10+61.62	1.86 Lt.	357.0	28	12+29.62	1.86 Lt.	359.5
8	10+69.62	1.86 Lt.	357.0	29	12+37.62	1.86 Lt.	360.5
9	10+77.62	1.86 Lt.	357.0	30	12+45.62	1.86 Lt.	360.5
10	10+85.62	1.86 Lt.	356.0	31	12+53.62	1.86 Lt.	360.5
11	10+93.62	1.86 Lt.	356.0	32	12+61.62	1.84 Lt.	366.5
12	11+01.62	1.86 Lt.	356.0	33	12+69.62	1.84 Lt.	366.5
13	11+09.62	1.86 Lt.	356.0	34	12+77.62	1.84 Lt.	366.5
14	11+17.62	1.86 Lt.	356.0	35	12+85.62	1.84 Lt.	367.5
15	11+25.62	1.86 Lt.	356.0	36	12+93.62	1.84 Lt.	367.5
16	11+33.62	1.86 Lt.	356.0	37	13+01.62	1.84 Lt.	368.5
17	11+41.62	1.86 Lt.	356.0	38	13+09.62	1.84 Lt.	368.5
18	11+49.62	1.86 Lt.	356.0	39	13+17.62	1.84 Lt.	368.5
19	11+57.62	1.86 Lt.	356.0	40	13+25.62	1.84 Lt.	369.5
20	11+65.62	1.86 Lt.	356.0	41	13+33.62	1.84 Lt.	369.5
21	11+73.62	1.86 Lt.	358.5	42	13+41.62	1.84 Lt.	370.5

WALL 1 SUGGESTED SEQUENCE OF CONSTRUCTION AND GENERAL REQUIREMENTS:

1. Clear and grub the area for the wall construction, taking care not to extend beyond established limits of disturbance or designated save areas
2. Place all erosion and sediment perimeter controls in accordance with the approved erosion and sediment control plan. These controls shall remain in place and be continuously maintained during all construction.
3. Grade a bench along the proposed wall alignment wide enough to accommodate the drilling equipment required to install the prebored holes and soldier piles for the retaining wall.
4. Once the area has been prepared for the drilling of the prebored holes the Contractor may proceed with the drilling operation.
5. The prebored holes shall be drilled as indicated in the plans. The hole may require a temporary casing to keep it open until the hole is poured. If used, casing shall be removed during the pouring operation.
6. Once the prebored hole is drilled, the Contractor shall place the pile inside the prebored hole and prepare the hole for pouring of the concrete. Particular attention must be given to the placement of the pile to insure that the alignment of the proposed wall is maintained.
7. The concrete and flowable backfill shall be placed in one continuous operation in accordance with the plans and Specifications. Concrete shall be placed to the bottom of 6" leveling pads and flowable backfill placed above that elevation.
8. Once the prebored hole and soldier pile is placed, the Contractor shall exercise extreme care so as not to damage the pile or prebored hole. Any damage shall be repaired to the satisfaction of the Engineer at the sole expense of the Contractor.
9. The flowable fill placed around piles shall be excavated as needed to accommodate the permanent wood lagging boards.
10. The wall shall be constructed in a top down manner to continually support the earth and roadway adjacent to the wall. For no reason shall an open unsupported excavation face be left unprotected.
11. Fill any voids behind the timber lagging with #68 stone backfill.
12. All excavation material shall be removed to an approved stockpile or disposal site.
13. If necessary, the top of the soldier piles shall be cut off to proper elevation prior to the placing of form work for the wall facing. Any piles damaged by the Contractor during the operation shall be repaired and/or replaced to the satisfaction of the Engineer at the Contractor's expense.
14. Prior to placing the cast-in-place wall facing, the leveling pad shall be installed to provide a level working surface for the support of the form work and wall facing.
15. Weld 6" studs to front of soldier piles if not already in place.
16. Install geocomposite wall drain and reinforcing steel for cast-in-place wall facing.
17. The cast-in-place wall facing shall be placed in one vertical pour from the top of concrete leveling pad to the bottom of the concrete coping. No horizontal joints will be allowed. The only vertical construction joints allowed along the length of the wall will be those located at the expansion or contraction joints. No other vertical joints will be allowed. Aestetic treatment of wall face shall be in accordance with special provisions and approved patterns, materials, and procedures.
18. The Contractor may cast the wall coping seperately to the finished line and grade shown.
19. Complete final grading in front of and behind wall. Extreme care shall be taken so not ot damage the concrete wall construction.

Notes:

For boring log, see sheets 10(5) and 10(6). Boring locations are approximate.

For geometric details of wall and trial baselines, see sheet 1F(2).

For details of nearby drainage elements, see sheet 3.

For soldier pile wall typical sections and details, see sheet 10(3).

LEGEND:

◔ indicates approximate location of boring.

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
SOLDIER PILE WALL PLAN AND
SUGGESTED SEQUENCE OF CONSTRUCTION

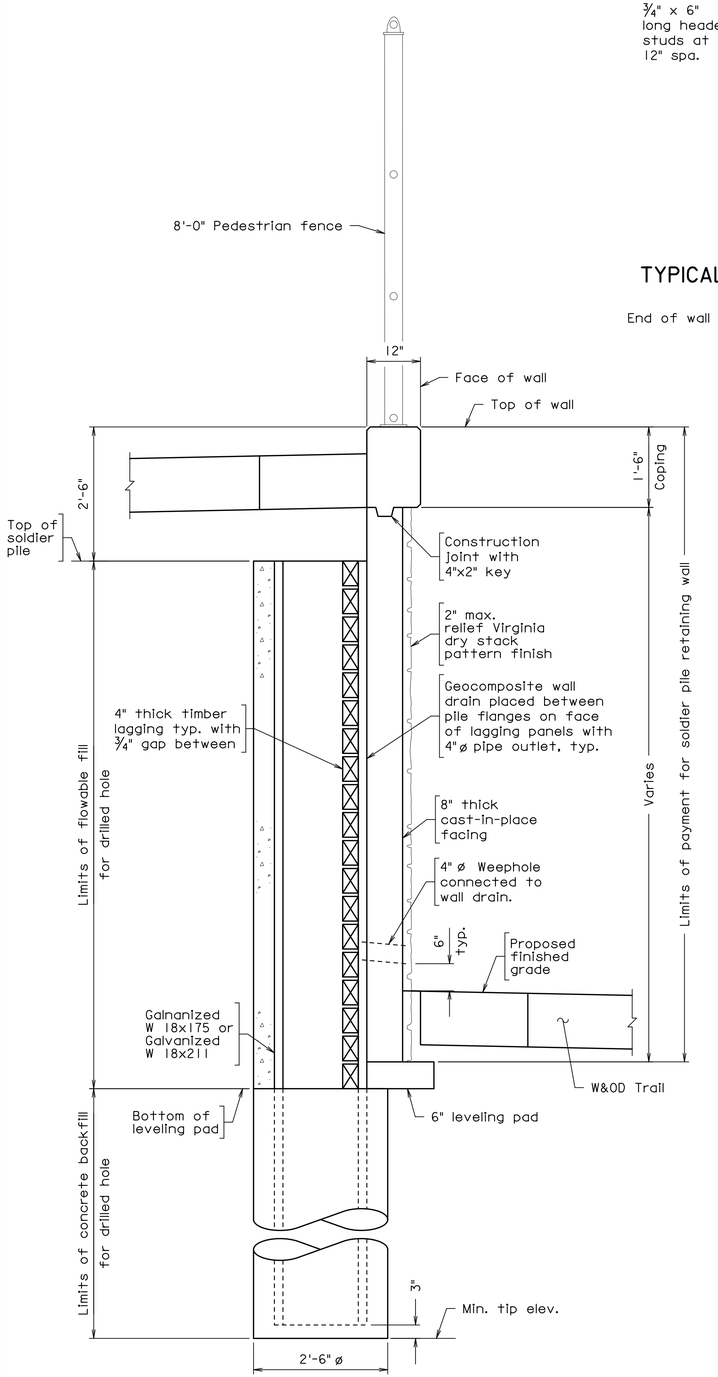
PROJECT NO: 1400102-2013

PLAN NO. XXX-XX
DESIGNED: WRA
DRAFTED: WRA
CHECKED: WRA
SHEET 10(2)

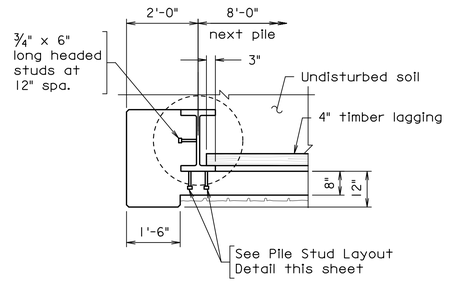
FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER, P.E. (703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC. (703) 361-6005 December 23, 2014

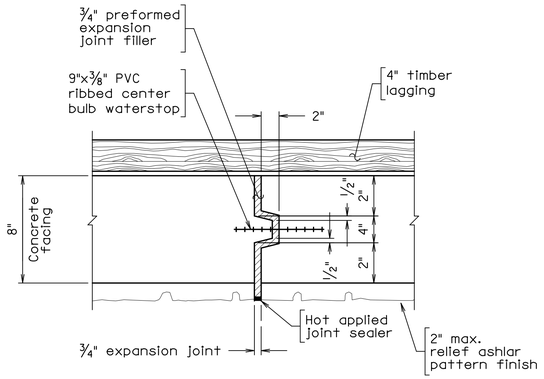


TYPICAL PILE WALL SECTION
WALL 1
Scale: ¾" = 1'-0"

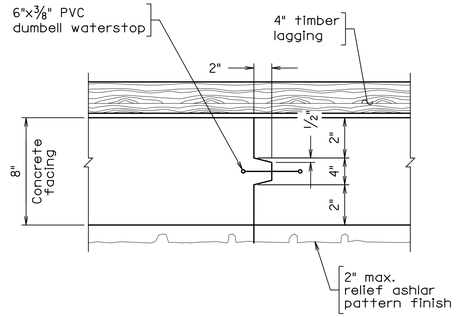


TYPICAL PART PLAN END TREATMENT
Scale: ½" = 1'-0"
End of wall shown, beginning of wall similar opposite hand.

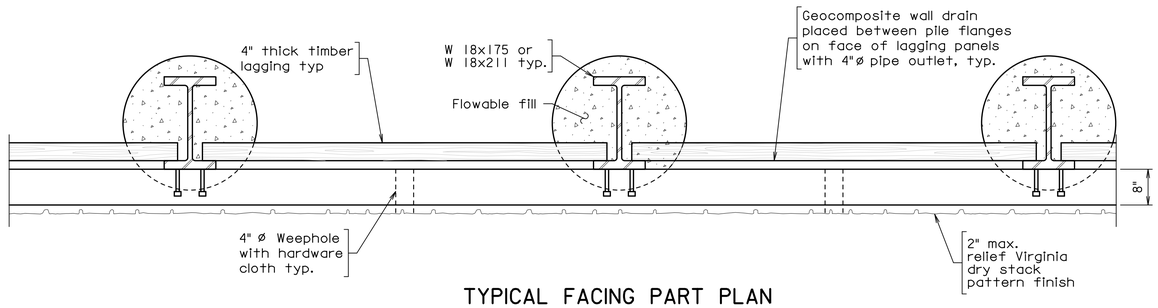
TYPICAL PILE STUD LAYOUT DETAIL
Not to scale



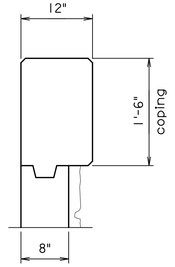
TYPICAL EXPANSION JOINT DETAIL
IN CAST-IN-PLACE CONCRETE FACING PLAN
Not to Scale



TYPICAL CONTRACTION JOINT DETAIL
IN CAST-IN-PLACE CONCRETE FACING PLAN
Not to Scale



TYPICAL FACING PART PLAN
Scale: ¾" = 1'-0"



COPING DETAIL
Scale: 1 " = 1'-0"

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
TYPICAL SECTION AND
WALL DETAILS

PROJECT NO: 1400102-2013

PLAN NO. XXX-XX

DESIGNED: WRA
DRAFTED: WRA
CHECKED: WRA

SHEET 10(3)

FUND # 500-C5000

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

REVISIONS

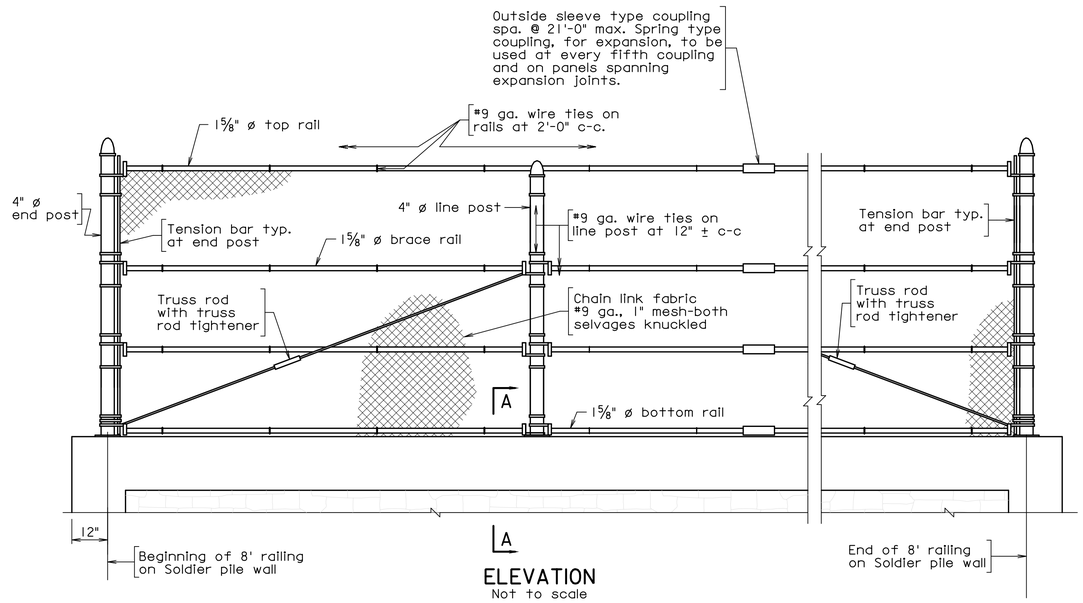
△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

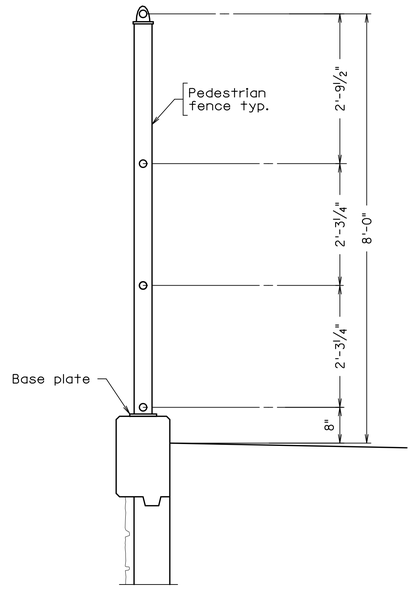
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 ___
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.,(703)361-6005 December 23,2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601



ELEVATION
Not to scale



TYPICAL SECTION
Scale: ¾" = 1'-0"

Notes:

The fence to be used on the Soldier pile wall shall be 8'-0" as shown in Typical Section.

Posts shall be set vertical. Rails shall be set parallel to the top of base of railing.

Spacing of posts to be equally spaced. Maximum spacing of posts shall not exceed 10'-0".

Chain link fabric shall be placed on inside of posts and rails.

Chain link fabric, posts, rails, bolts excluding threads, and other associated hardware shall be black vinyl coated.

Threaded inserts and bolt threads shall not be galvanized or coated.

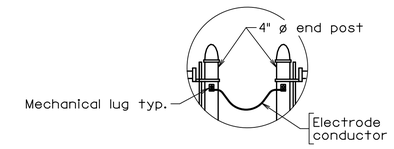
Ends of wire ties shall be turned to outside of fence to prevent injury to pedestrians.

Threaded inserts, when embedded as shown, shall develop full strength of threaded bolts. Embedment of insert per manufacturers recomendations or 5" whichever is greater.

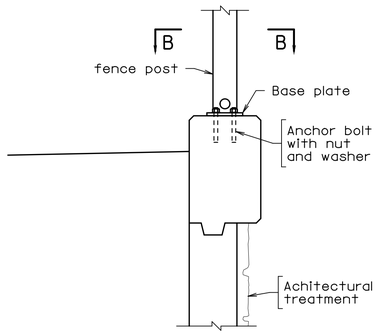
All bolts shall be high strength (ASTM A325).

All welded or seamless steel galvanized pipe shall conform to ASTM F1083, Schedule 40.

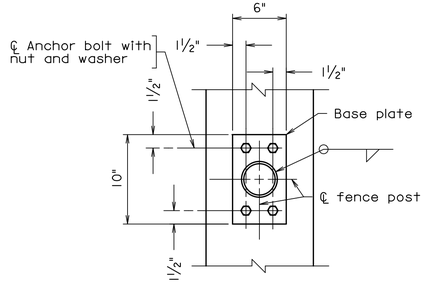
Fence framing (posts and railing) shall be grounded in accordance with Section 507.



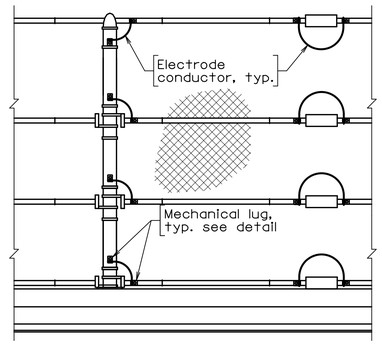
ELECTRICAL CONTINUITY
(On Open Joint)
Not to scale



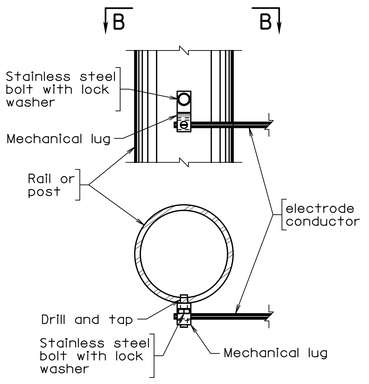
SECTION A-A
Scale: 1" = 1'-0"



VIEW B-B
Scale: 1½" = 1'



ELECTRICAL CONTINUITY
FOR VINYL COATED STEEL PEDESTRIAN FENCE
(Installed on the non-traffic side of the fence)
Not to scale



SECTION B-B
MECHANICAL LUG DETAIL
Not to scale

Scale as noted.

PREFINAL PLANS

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
8' PEDESTRIAN FENCE DETAILS
ON SOLDIER PILE WALL

PROJECT NO: 1400102-2013

PLAN NO.	DESIGNED: JRM	SHEET
XXX-XX	DRAFTED: CRR	10(4)
	CHECKED: TAB	

FUND # 500-C5000

REVISIONS

△#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER,P.E.,(703)877-5736 _____
SURVEYED BY, DATE _FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.(703)361-6005 December 23,2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601

B-01

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

PAGE 1 OF 1

STATION: 10874.79 OFFSET: 26.82 ft LT
NORTHING: 7031532.44 ft Easting: 11813377.91 ft
SURFACE ELEVATION: 386.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/24/2016 - 10/24/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: G Koepping

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)
0	385	4 14 16	45		1.5						0.0 / 386.0 Gray, fine to course SAND with Silt, dry **SM**			
2		6 5 6	78		2.5						1.5 / 384.5 Orange, Clayey SILT with mica, dry **ML**			
4					4									
6	380	7 7 6	67		5						5.0 / 381.0 Light orange, foliated, SILT with little fine Sand, dry **ML**			
8					6.5									
10		5 4 7	67		8.5									
12	375				10									
14		20 50/4"	55		13.5						13.5 / 372.5 Gray/brown, mottled, Clayey SILT, dry **ML**			
16	370				15									
18		16 23 22	100		18.5									
20					20									

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 1
B-01

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.004;092710;4/4/17

B-02

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

PAGE 1 OF 1

STATION: 10996.96 OFFSET: 8.00 ft LT
NORTHING: 7031491.33 ft Easting: 11813496.67 ft
SURFACE ELEVATION: 389.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/24/2016 - 10/24/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: G Koepping

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)	FINES CONTENT -#200 (%)
0	385	5 6 7	78		1.5						0.0 / 389.0 Orange/brown, Silty CLAY, dry **CL-ML**				
2		15 7 9	78		2.5						2.5 / 386.5 Tan, SILT with mica, dry **ML**				
4					4										
6		5 6 8	89		5										
8					6.5										
10	380	12 8 12	78		8.5						8.5 / 380.5 Gray, brown, layered, Clayey SILT, dry **ML**			7.3	62.0
12					10										
14	375	5 12 26	67		13.5										
16					15										
18	370	50/3"	0		18.5										
20					20										

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 1
B-02

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.004;092710;4/4/17

B-03

PROJECT #: 45494-027
LOCATION: W&OD Trail over Wiehle Avenue
STRUCTURE: TRAIL

PAGE 1 OF 1

STATION: 11150.00 OFFSET: 8.00 ft LT
NORTHING: 7031449.63 ft Easting: 11813643.92 ft
SURFACE ELEVATION: 388.0 ft COORD. DATUM: VA North

FIELD DATA

Date(s) Drilled: 10/24/2016 - 10/24/2016
Drilling Method(s): HSA
SPT Method: Automatic Hammer
Other Test(s):
Driller: Raymond
Logger: G Koepping

GROUND WATER

LAB DATA

DEPTH (ft)	ELEVATION (ft)	SOIL: STANDARD PENETRATION TEST HAMMER BLOWS	SOIL: SOIL RECOVERY (%)	SOIL: SAMPLE LEGEND	SOIL: SAMPLE INTERVAL	ROCK: CORE RECOVERY (%)	ROCK: ROCK QUALITY DESIGNATION	ROCK: DIP * STRATA	ROCK: DIP * JOINTS	STRATA LEGEND	FIELD DESCRIPTION OF STRATA	LIQUID LIMIT LL	PLASTICITY INDEX PI	MOISTURE CONTENT (%)
0	385	4 5 9	67		1.5						0.0 / 388.0 Brown/orange, Clayey SILT with some Gravel, dry **ML**			
2		8 9 10	89		2.5						2.5 / 385.5 Orange with white deposits, SILT with some Clay, dry **ML**			
4					4									
6		6 7 8	78		5						5.0 / 383.0 White/red, SILT with decomposing rock and latge Quartz gravel, dry **ML**			
8	380				6.5									
10		15 19 40	78		8.5									
12					10									
14	375	12 8 10	100		13.5						13.5 / 374.5 Orange, brown, SILT with Quartz rock fragments, dry **ML**			
16					15									
18	370	8 28 25	89		18.5									
20					20									

REMARKS: Rig Type: CME-45C-2 Truck Rig.

PAGE 1 OF 1
B-03

SPT_LOGS\W&OD WIEHLE AVE.GPJ;8.30.004;092710;4/4/17

A copy of the original signed geotechnical submittal is on file with the County.

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the County in establishing design controls for the project. The County has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The County does not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the County does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes.

The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the County, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

PREFINAL PLANS

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
ENGINEERING GEOLOGY
1 OF 2

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

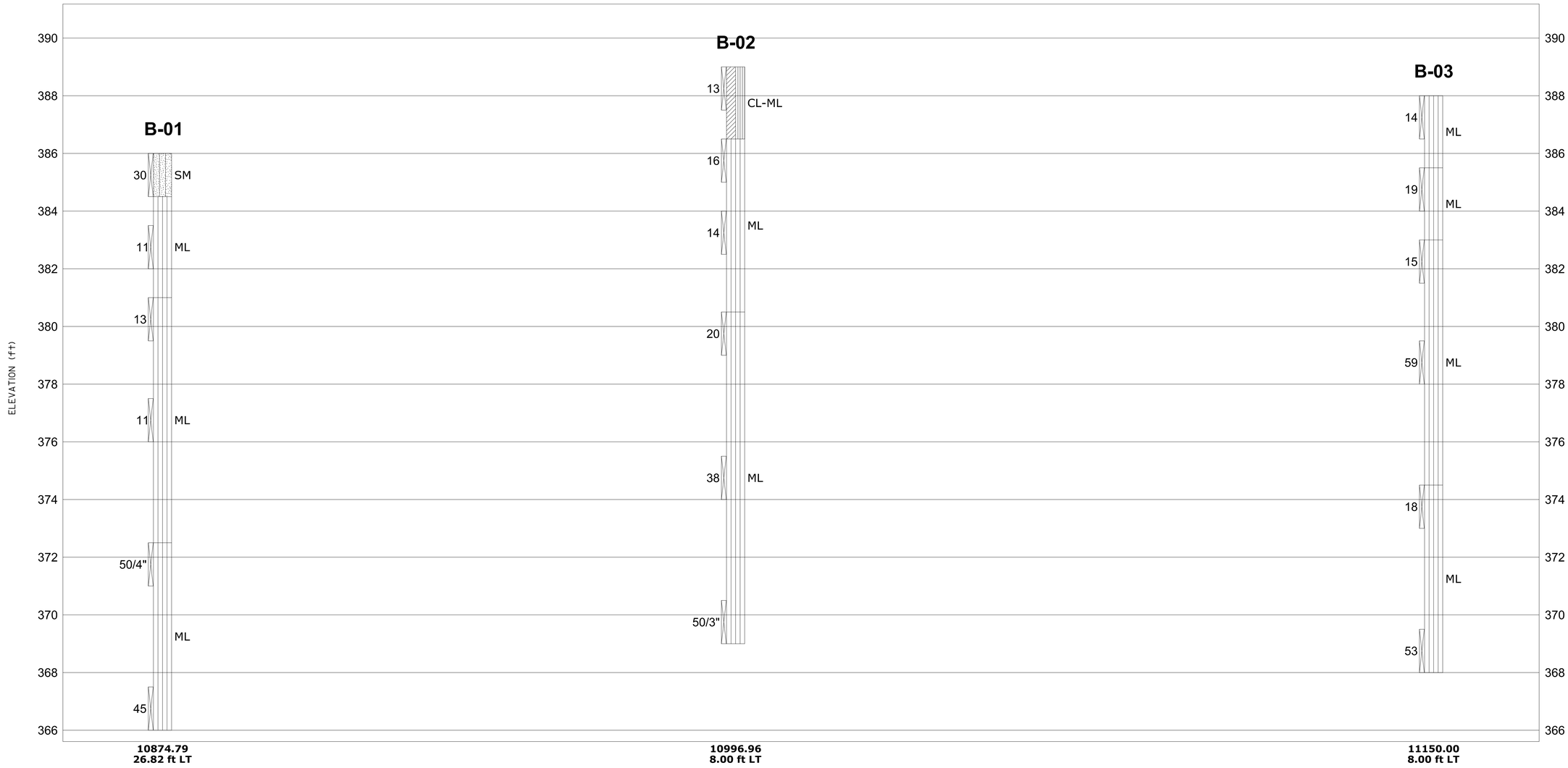
PLAN NO. XXX-XX
DESIGNED: JRM
DRAFTED: CRR
CHECKED: TAB
SHEET 10(5)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

PROJECT MANAGER _ SCOTT RUFFNER,P.E.(703) 877-5736 _____
SURVEYED BY, DATE _ FAIRFAX COUNTY _____
DESIGN BY _ WHITMAN,REQUARDT & ASSOCIATES,LLP (703) 293-9717 _____
SUBSURFACE UTILITY BY, DATE _ SO DEEP,INC.(703) 361-6005 December 23, 2014

STATE	FEDERAL AID		STATE	
	ROUTE	PROJECT	ROUTE	PROJECT
VA.	——	———	828	0828-029-248, B-601



PREFINAL PLANS

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The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the County, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

Notes: See borehole logs for complete data
See Material and Sample Symbols List

A copy of the original signed geotechnical submittal is on file with the County.

WHITMAN REQUARDT & ASSOCIATES
RICHMOND, VA
STRUCTURAL ENGINEER

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828) AT W&OD TRAIL
ENGINEERING GEOLOGY
2 OF 2

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

PLAN NO.	DESIGNED: JRM DRAFTED: CRR CHECKED: TAB	SHEET
XXX-XX		10(6)

FUND # 500-C5000

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY FAIRFAX COUNTY.

FOR FAIRFAX WATER ADJUSTMENTS ONLY

FAIRFAX WATER
WATER SYSTEM ADJUSTMENTS
FAIRFAX WATER PROJECT 2592 DIVISION 1

WATER MAIN CONSTRUCTION NOTES:

1. AT LEAST 2 WEEKS IN ADVANCE TO BEGINNING ANY WATER MAIN CONSTRUCTION, THE WATER MAIN INSTALLATION CONTRACTOR SHALL SUBMIT TO FAIRFAX WATER, FOR REVIEW AND APPROVAL THE FOLLOWING:
   A. EVIDENCE OF SATISFACTORY COMPLETION OF AT LEAST FIVE WATER MAIN INSTALLATION CONTRACTS SIMILAR IN QUANTITY AND COMPLEXITY, INCLUDING FOREMAN'S EXPERIENCE IN INSTALLING THE PIPE MATERIAL AND JOINT TYPES TO BE USED, PROJECT TITLES, PIPE DIAMETER AND LENGTH, LOCATIONS, REFERENCE CONTACTS, AND TELEPHONE NUMBERS. THE FOREMAN SHALL HAVE AT LEAST 5 YEARS EXPERIENCE IN THE INSTALLATION OF WATER MAINS, AND SHALL HAVE BEEN IN CHARGE OF INSTALLING AT LEAST 5,000 LINEAR FEET OF DUCTILE PIPE.
   B. DATA SHALL BE SUPPLIED TO SHOW THAT STAFFING SCHEDULED FOR THE PROJECT POSSESS THE REQUIRED EXPERIENCE. SUCH DATA SHALL CONSIST OF A HISTORY OF THE EMPLOYMENT EXPERIENCE OF THE JOB FOREMAN, WHO WILL BE IN CHARGE OF THE WATER MAIN INSTALLATION WORK ON THE CONSTRUCTION SITE, TOGETHER WITH A DESCRIPTION OF ANY PARTICULAR CERTIFICATIONS OR SPECIAL CREDENTIALS HE MAY POSSESS.
2. DURING THE CONSTRUCTION OF THE WATER MAIN, FAIRFAX WATER, UPON NOTICE TO THE CONTRACTOR, AND IN FAIRFAX WATER'S SOLE DISCRETION, WILL HAVE THE RIGHT TO DIRECT THE CONTRACTOR TO REMOVE AN EMPLOYEE PERMANENTLY FROM THE SITE FOR ANY REASON. IN ADDITION, IF ANY OF THE CONTRACTOR'S PERSONNEL ARE NOT SATISFACTORY TO FAIRFAX WATER THE CONTRACTOR SHALL REPLACE SAME WITH SATISFACTORY PERSONNEL.
3. NOTICE OR COMMUNICATION TO THE FOREMAN SHALL BE EQUIVALENT TO NOTICE OR COMMUNICATION TO THE CONTRACTOR. THE FOREMAN SHALL FOLLOW WITHOUT DELAY ALL INSTRUCTIONS OF FAIRFAX WATER IN THE CONSTRUCTION AND COMPLETION OF THE WATER MAIN OR ANY WORK ASSOCIATED WITH OR IMPACTING FAIRFAX WATER INFRASTRUCTURE.
4. FAIRFAX WATER SHALL HAVE THE RIGHT TO SUSPEND ANY PART OF THE WATER MAIN INSTALLATION WHENEVER IN THEIR JUDGMENT, SUCH SUSPENSION IS REQUIRED IN THE BEST INTEREST OF FAIRFAX WATER; OR TO TAKE OVER, USE, OCCUPY, OR OPERATE ANY PART OF THE COMPLETED OR PARTLY COMPLETED WATER MAIN INSTALLATION IF, BEFORE THE FINAL ACCEPTANCE OF THE WATER MAIN INSTALLATION, FAIRFAX WATER DEEMS IT NECESSARY.
5. THE EXISTING UTILITIES, STRUCTURES, PROPERTY LINES, AND EASEMENTS SHOWN ARE BASED ON DATA AND CONSTRUCTION PLANS PROVIDED BY FAIRFAX COUNTY. THE WATER MAIN DESIGN HAS BEEN BASED ON THIS PROVIDED INFORMATION. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION AND SHALL DIG TEST PITS AS CALLED FOR IN THE CONSTRUCTION NOTES OR AS DEEMED NECESSARY BY THE ENGINEER.
6. THE CONTRACTOR IS RESPONSIBLE FOR ENFORCING THE REQUIREMENTS OF CHAPTER 6-B, FAIRFAX COUNTY CODE-EXCAVATION AND UTILITY LINE INSTALLATION. IN PARTICULAR, THE CONTRACTOR IS DIRECTED TO SECTION 10, DEMOLITION OR EXCAVATION-PRIOR NOTICE OF THE AFORESAID CODE. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" AT 1-800-257-7777 SUFFICIENTLY IN ADVANCE OF THE START OF CONSTRUCTION TO COMPLY WITH THIS REQUIREMENT.
7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AND UTILITY OWNER AT NO EXPENSE TO FAIRFAX COUNTY.
8. ALL PIPE ELEVATIONS SHOWN ARE TOP OF PIPE UNLESS OTHERWISE SPECIFIED ON THE PLAN.
9. THE CONTRACTOR IS REFERRED TO THE FAIRFAX COUNTY DRAWINGS AND STANDARDS FOR THE LATEST ROAD AND DRAINAGE DESIGN INFORMATION.
10. NOTIFICATION OF PENDING WATER MAIN PRESSURE TESTS, DISINFECTION AND/OR CONNECTIONS; THE DESIRE TO HAVE AN EXISTING WATER SYSTEM VALVE OPENED OR CLOSED; AN EMERGENCY; ETC. SHALL BE DIRECTED TO:
    A. 8:00 A.M. TO 4:00 P.M. MONDAY THROUGH FRIDAY
       MR. DAVE LAMBERT, SUPERVISOR, ENGINEERING INSPECTION
       8560 ARLINGTON BOULEVARD
       FAIRFAX, VA 22031
       TELEPHONE NO. (703) 289-6399
       CELL PHONE NO. (571) 722-7643
    B. NIGHT, WEEKENDS AND HOLIDAYS
       DISPATCHER
       TELEPHONE NO. (703) 289-6395 OR (703) 289-6323
11. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY EXISTING WATER SYSTEM VALVES WITHOUT A FAIRFAX WATER INSPECTOR OVERSEEING THE WORK.
12. THE WORKING PRESSURE OF THE EXISTING WATER SYSTEM IS APPROXIMATELY XX PSI.
13. FAIRFAX WATER INSPECTOR WILL RECORD "AS BUILT" CONDITIONS FOR THE GENERAL WATER MAIN CONSTRUCTION.
14. FAIRFAX WATER PUBLISHES AN "APPROVED PRODUCTS LIST" WHICH LISTS, BY CATEGORY, MANUFACTURER'S PRODUCTS APPROVED FOR USE IN FAIRFAX WATER'S SYSTEM. MANUFACTURER'S PRODUCTS COVERED BY THE CATEGORIES INCLUDED IN THIS DOCUMENT WHICH ARE NOT SPECIFICALLY LISTED ARE NOT APPROVED FOR USE. COPIES OF THIS DOCUMENT ARE AVAILABLE AT WWW.FAIRFAXWATER.ORG.
15. ALL WATER MAIN INSTALLATION SHALL BE IN CONFORMANCE WITH FAIRFAX WATER'S STANDARD DETAILS, INCLUDED HEREIN, AND CONSTRUCTION PRACTICE MANUAL. BOTH DOCUMENTS CAN BE FOUND AT FAIRFAX WATER'S WEBSITE AT WWW.FAIRFAXWATER.ORG.
16. FAIRFAX WATER WILL REVIEW AND APPROVE WATER MAIN LAYING SCHEDULES (FOR 24-INCH AND GREATER) AND WATER MAIN RELATED SHOP DRAWINGS FOR THIS PROJECT AS TRANSMITTED TO FAIRFAX WATER BY THE CONTRACTOR. SUBMITTALS TO FAIRFAX WATER SHALL CONSIST OF CATALOG CUTS, SUPPLIER CERTIFICATIONS AND ANY OTHER INFORMATION PERTINENT TO THE MATERIAL ITEM. ALL SUBMITTALS SHALL BE OF CLEAR AND READABLE QUALITY AND THE ITEM BEING SUBMITTED FOR REVIEW SHALL BE CLEARLY HIGHLIGHTED OR DEFINED SO THAT THE REVIEWER CAN READILY IDENTIFY IT. FAIRFAX WATER REQUIRES A MINIMUM OF FOUR (4) SETS OF SUBMITTALS FOR IN-HOUSE DISTRIBUTION. ADDITIONAL SETS OF SUBMITTALS TO BE RETURNED TO THE CONTRACTOR SHOULD BE PROVIDED AT THIS TIME. THE SUBMITTALS WILL BE PROVIDED TO FAIRFAX WATER WITH A TRANSMITTAL LETTER CLEARLY IDENTIFYING THE CONTENTS OF THE DOCUMENTS AND FAIRFAX WATER PROJECT NUMBER. SUBMITTALS SHALL BE REVIEWED AND RETURNED WITHIN TWENTY (20) WORKING DAYS OF THE DATE THE SUBMITTALS ARE RECEIVED BY FAIRFAX WATER. INFORMATION THAT IS MAILED OR DELIVERED BY COURIER SHOULD BE DIRECTED TO:

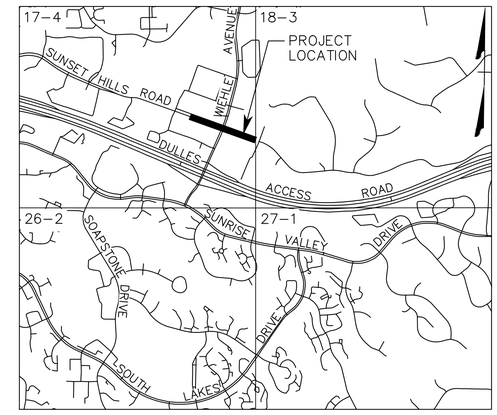
    FAIRFAX WATER
    8560 ARLINGTON BOULEVARD
    FAIRFAX, VIRGINIA 22031
    MR. JERRY SCOTT, P.E., CCM
    CHIEF CONSTRUCTION ENGINEER
17. THE CONTRACTOR SHALL NOT BE RELEASED FROM THE PROJECT UNTIL THE WATER MAIN INSTALLATION WORK AND FINAL WATER MAIN INSPECTION ARE COMPLETED TO THE SATISFACTION OF FAIRFAX WATER. A FAIRFAX WATER REPRESENTATIVE SHALL PROVIDE WRITTEN APPROVAL VERIFYING THAT THE WATER MAIN INSTALLATION WORK IS COMPLETE.
18. AT EACH LOCATION WHERE A NEW WATER MAIN IS TO BE CONNECTED TO THE EXISTING WATER MAIN, THE CONTRACTOR SHALL NOT ORDER MATERIAL FOR THE CONNECTION UNTIL HE HAS DUG A TEST PIT AND VERIFIED THE EXACT LOCATION, SIZE, OUTSIDE DIAMETER, ROUNDNESS, ELEVATION, MATERIAL, JOINT LOCATION, AND TYPE AND DIRECTION OF THE EXISTING WATER MAIN. DIG TEST PITS ONLY IN THE PRESENCE OF AN AUTHORIZED REPRESENTATIVE OF FAIRFAX WATER.
19. IF TEST PIT DATA OR FIELD CONDITIONS SHOW THERE IS A CONFLICT WITH AN EXISTING UTILITY OR THE WATER MAIN DESIGN HAS TO BE MODIFIED, SUBMIT THE TEST PIT DATA OR FIELD INFORMATION TO FAIRFAX WATER. FAIRFAX WATER WILL REVIEW AND MODIFY THE DRAWINGS AS REQUIRED.
20. INSTALL EACH REPLACEMENT WATER MAIN UP TO BUT EXCLUDING THE CONNECTION(S) TO THE EXISTING WATER MAIN(S) TO THE LINES AND GRADES SHOWN ON THE DRAWINGS, INSTALL TEMPORARY PLUGS OR CAPS, AND SUCCESSFULLY PRESSURE TEST AND DISINFECT THE WATER MAIN. LEAKAGE LOSS (L) AS MEASURED IN GALLONS/HOUR, SHALL NOT EXCEED $SD(P)^{0.5}/148{,}000$ FOR TWO HOURS WHERE "S" IS THE LENGTH IN FEET OF WATER MAIN TESTED, "D" IS THE NOMINAL INSIDE DIAMETER OF THE PIPE IN INCHES, AND "P" IS THE TEST PRESSURE OF 150 PSI OR 125% (PIPE LESS THAN 20") 150% (PIPE EQUAL TO OR GREATER THAN 20") OF THE MAXIMUM EXPECTED WORKING PRESSURE, WHICHEVER IS GREATER, AT THE HIGH POINT OF THE WATER MAIN UNLESS OTHERWISE SHOWN OR DIRECTED BY FAIRFAX WATER. PRESSURE TESTS SHALL BE LIMITED TO 2,500 FEET FOR ANY INDIVIDUAL TEST. NO ADDITIONAL PAYMENT FOR TEMPORARY BLOW OFFS OR AIR RELEASES.
21. AT LEAST SEVEN WORKING DAYS PRIOR TO THE DATE THE CONTRACTOR ANTICIPATES INSTALLING THE CONNECTION(S) TO THE EXISTING WATER SYSTEM, THE CONTRACTOR SHALL MEET WITH A FAIRFAX WATER REPRESENTATIVE AND REVIEW HIS PROPOSED SCHEDULING AND CONSTRUCTION PROCEDURES FOR THE CONNECTION(S). SYSTEM DEMANDS AND OPERATING CONDITIONS AT THE TIME CONNECTION(S) ARE SCHEDULED MAY REQUIRE A NIGHT (9:00 P.M. TO 6:00 A.M.) CONNECTION TIME. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR WORK WHICH MUST BE PERFORMED AT NIGHT. APPROVAL OF THE CONTRACTOR'S CONNECTION(S) SCHEDULE AND CONSTRUCTION PROCEDURES BY FAIRFAX WATER DOES NOT RELIEVE THE CONTRACTOR OF HIS TOTAL RESPONSIBILITY TO SEE THAT THE CONNECTION IS SUCCESSFULLY COMPLETED WITHIN THE DESIGNATED TIME FRAME.
22. BASED ON THE APPROVED CONSTRUCTION SCHEDULE, FAIRFAX WATER WILL GIVE AT LEAST 48 HOURS WRITTEN NOTICE TO AFFECTED CUSTOMERS FOR WATER MAIN CONSTRUCTION THAT WILL REQUIRE THE INTERRUPTION OF WATER SERVICE TO THESE CUSTOMERS.
23. PRIOR TO THE COMMENCEMENT OF ANY CONNECTION WORK, THE FAIRFAX WATER INSPECTOR WILL CONFIRM THAT THE CONTRACTOR HAS ALL NECESSARY MATERIALS, TOOLS AND EQUIPMENT AT THE WORK SITE. PIPE, FITTINGS AND VALVES SHALL BE PREASSEMBLED AS MUCH AS POSSIBLE TO REDUCE THE TIME OF WATER SERVICE INTERRUPTION. WORK WILL NOT COMMENCE UNTIL THIS IS CONFIRMED. ALSO, THE GEOMETRY OF THE CONNECTION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO STARTING THE CONNECTION.
24. THE CONTRACTOR SHALL WORK CONTINUOUSLY AND EXPEDITIOUSLY AROUND THE CLOCK USING MULTIPLE CREWS UNTIL THE CONNECTIONS ARE SUCCESSFULLY INSTALLED AND WATER SERVICE IS RESTORED. WHERE THE NEW WATER MAIN IS TO BE CONNECTED AT MORE THAN ONE POINT TO THE EXISTING WATER SYSTEM, CONNECTIONS SHALL PROCEED SIMULTANEOUSLY. ALL CONNECTION WORK MUST BE SUCCESSFULLY COMPLETED WITHIN TEN HOURS UNLESS NOTED DIFFERENTLY IN WRITING BY THE ENGINEER OR FAIRFAX WATER. THE CONTRACTOR SHALL COMMIT THE NECESSARY PERSONNEL AND EQUIPMENT REQUIRED TO PERFORM THE SIMULTANEOUS CONNECTIONS WITHIN THE ABOVE TIME CONSTRAINTS.
25. ONLY NON-TOXIC LUBRICANTS RECOMMENDED BY THE PIPE MANUFACTURER AND APPROVED BY THE VIRGINIA DEPARTMENT OF HEALTH SHALL BE USED ON GASKETS. A SOAP SOLUTION WILL NOT BE ALLOWED.
26. ANY WATER MAIN TO BE INSTALLED IN A FILL AREA SHALL HAVE THE FILL PLACED AND COMPACTED TO A MINIMUM OF 2 FEET ABOVE THE TOP OF THE PROPOSED PIPE PRIOR TO EXCAVATION FOR AND INSTALLATION OF THE PIPE.
27. FIELD APPLIED PETROLATUM TAPE TO BE APPLIED TO:
    A. BURIED MECHANICAL JOINTS, BOLTS, NUTS, COUPLINGS, HARNESS TIE RODS, SADDLES, IRON AND STEEL ANCHORS, AND OTHER BURIED CONNECTING HARDWARE.
    B. PIPE EMBEDDED IN CONCRETE ANCHOR BLOCKS OR OTHERWISE IN CONTACT WITH CONCRETE, EXTENDING THROUGH CONCRETE AND ADJACENT 6 INCHES IN BOTH DIRECTIONS.
    C. SERVICE CLAMPS, NON-MOVING PARTS OF CORPORATION STOPS, AND OTHER TRANSITION FITTINGS BETWEEN COPPER SERVICES AND DUCTILE IRON PIPE.
28. NO BLASTING SHALL OCCUR WITHIN 25 FEET OF EXISTING WATER MAINS. A MAXIMUM PARTICLE VELOCITY OF 1 1/2 INCHES PER SECOND AT THE CLOSEST POINT TO THE WATER MAIN FOR ANY BLASTING THAT OCCURS BEYOND THE 25 FEET LIMIT SHALL BE ADHERED TO.
29. ANY SOUND BARRIER CONSTRUCTION, INCLUDING FOOTINGS, WITHIN 15 FEET OF THE EXISTING OR PROPOSED WATER MAINS SHALL BE REVIEWED FOR APPROVAL BY FAIRFAX WATER.
30. INSTALL IDENTIFICATION TAPE DURING BACKFILL OPERATIONS ONE FOOT ABOVE WATER MAIN PIPING FOR ALL RESTRAINED PIPE JOINTS.
31. WATER METERS WITHIN PROJECT LIMITS SHALL BE RELOCATED BY THE CONTRACTOR TO A LOCATION BEHIND THE PROPOSED CURB AND GUTTER. ALL WATER SERVICE RELOCATIONS AND RETAPS SHALL BE INSTALLED BY THE CONTRACTOR. ALL EXISTING SERVICES SHALL BE RECONNECTED BY THE CONTRACTOR AFTER ALL APPROVALS HAVE BEEN OBTAINED. WATER METER ASSEMBLIES SHALL INCLUDE ALL MATERIALS AS SHOWN IN FAIRFAX WATER'S STANDARD DETAILS.
32. PROPOSED WATER MAINS AND SERVICES MUST BE IN SERVICE BEFORE EXISTING WATER MAINS AND SERVICES ARE ABANDONED.
33. UPON COMPLETION OF PROJECT, INSPECTOR WILL CHECK THAT ALL METER BOXES ARE SET TO GRADE AND IN CORRECT LOCATIONS BEFORE THE CONTRACTOR MOVES OFF JOBSITE.
34. IN INSTANCES WHERE FAIRFAX COUNTY AND FAIRFAX WATER SPECIFICATIONS OVERLAP OR ADDRESS THE SAME ISSUES, THE MORE STRINGENT SPECIFICATIONS SHALL BE ADHERED TO.
35. ALL ABANDONED VALVES AND APPURTENANCES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSAL/REMOVAL OF SUCH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
36. IF THE PROJECT REQUIRES CUTTING OF ASBESTOS CEMENT PIPE (ACP) WATER MAINS, THE CONTRACTOR SHALL COMPLY WITH ALL STATE, FEDERAL AND LOCAL REGULATIONS INCLUDING, BUT NOT LIMITED TO, OSHA REQUIREMENTS, AND VIRGINIA DEPARTMENT OF WASTE MANAGEMENT REGULATIONS IN WORKING WITH AND DISPOSAL OF ASBESTOS CEMENT PIPE.
37. THE CONTRACTOR SHALL INSTALL 1 LAYER OF 8-MIL V-BIO POLYETHYLENE ENCASEMENT FOR ALL WATER MAINS, AS SHOWN ON THE DRAWINGS AND STANDARD DETAILS.
38. ALL EXISTING AND NEW VALVE BOXES MUST BE FULLY ADJUSTED TO CONFORM TO FINAL ASPHALT GRADE. NO PAVING ADJUSTERS WILL BE PERMITTED.
39. IN AREAS WHERE PETROLEUM-CONTAMINATED SOILS ARE ENCOUNTERED ALONG THE PROPOSED WATER MAIN ALIGNMENT, THE CONTRACTOR, AS DIRECTED BY FAIRFAX WATER, SHALL REMOVE AND DISPOSE OF ALL CONTAMINATED SOILS WITHIN THE PIPELINE TRENCH WHERE THE TOTAL PETROLEUM HYDROCARBON (TPH) CONCENTRATION EXCEEDS 50 MG/KG. THE CONTRACTOR SHALL REMOVE THE SUBJECT SOILS AS DIRECTED BY FAIRFAX WATER IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (VDEQ), THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND INDUSTRY-RECOGNIZED REMOVAL PROCEDURES. THE CONTAMINATED SOILS SHALL BE DISPOSED OF AT A CERTIFIED LANDFILL SITE FOR THE CONCENTRATION LEVELS ENCOUNTERED. THE CONTRACTOR SHALL INSTALL FKM (VITON) GASKETS IN ACCORDANCE WITH THE PIPELINE MANUFACTURER'S INSTALLATION REQUIREMENTS IN ALL AREAS WHERE EXCAVATED SOILS EXCEED 10 MG/KG TPH OR TO THE EXTENT DIRECTED BY FAIRFAX WATER. SUITABLE CLEAN FILL MATERIAL WILL BE PUT IN PLACE ABOVE THE NEWLY INSTALLED WATER MAIN, IF NON-PAVED AREA, IN ACCORDANCE WITH FAIRFAX WATER'S STANDARD TRENCH DETAILS.
40. THE CONTRACTOR SHALL NOT INSTALL ANY EARTHWORK OVER EXISTING OR PROPOSED FAIRFAX WATER UTILITIES BEYOND THAT WHICH IS SHOWN IN THE APPROVED FAIRFAX COUNTY DRAWINGS WITHOUT THE APPROVAL OF FAIRFAX WATER.

LEGEND

	EXISTING	PROPOSED
WATER MAIN		
2" AIR RELEASE VALVE & BOX		
2" BLOW OFF VALVE & BOX		
WATER VALVE & BOX		
REDUCER		
WATER METER & BOX		M
FIRE HYDRANT		
C.I.P.	CAST IRON PIPE	
D.I.P.	DUCTILE IRON PIPE	
P.C.C.P.	PRESTRESSED CONCRETE CYLINDER PIPE	
EXISTING WATER MAIN TO BE ABANDONED OR REMOVED		
CAP/PLUG EXISTING WATER MAIN		
FAIRFAX WATER EASEMENT		

50% PLANS

INDEX OF SHEETS



VICINITY MAP

SCALE: 1"=2000'

FAIRFAX WATER ADJUSTMENTS

WIEHLE AVENUE (RTE. 828) AT W&OD TRAIL
WATER SYSTEM ADJUSTMENTS
FAIRFAX WATER PROJECT 2592, DIVISION 1
FAIRFAX COUNTY PROJECT NO. 1400102-2013

TAX MAP 17-4
FAIRFAX COUNTY, VIRGINIA
PREPARED BY

FAIRFAX WATER
8560 ARLINGTON BOULEVARD
FAIRFAX, VIRGINIA 22031
OFFICE (703) 289-6300 FAX (703) 289-6398

DATE: MARCH 2018

FOR FAIRFAX WATER ADJUSTMENTS ONLY

FAIRFAX WATER
WATER SYSTEM ADJUSTMENTS
FAIRFAX WATER PROJECT 2592 DIVISION 1

SUMMARY OF QUANTITIES

SHEET NUMBER	DUCTILE IRON WATER MAIN			P.C.C.P. TIE–IN	LONG SOLID SLEEVE	BUTTERFLY VALVE & BOX	GATE VALVE & BOX		BRANCH		BEND	AIR RELEASE ASSEMBLY	FIRE HYDRANT	SHEET NUMBER
SIZE	6"	12"	24"	24"	24"	24"	6"	12"	24"x6"	24"x12"	24"	2"	N/A	SIZE
UNIT	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	UNIT
102	–	–	197	1	–	–	–	–	–	–	2	–	–	102
103	–	15	465	–	2	2	–	1	–	1	1	–	–	103
104	10	–	749	1	–	–	1	–	1	–	10	–	1	104
TOTAL	10	15	1411	2	2	2	1	1	1	1	13	–	1	TOTAL

MEASUREMENT AND PAYMENT

1. MEASUREMENT AND PAYMENT FOR ITEMS LISTED IN THE WATER MAIN SUMMARY SHALL BE AS DEFINED IN THE LATEST EDITION OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS OR AS OTHERWISE DENOTED HEREON. PAYMENT SHALL INCLUDE FULL COMPENSATION FOR ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE APPLICABLE FAIRFAX WATER STANDARD DETAILS AND THOSE IN THE PLANS.

2. DUCTILE IRON WATER MAIN: FAIRFAX WATER'S WATER MAINS, APPURTENANCES, AND OTHER ASSOCIATED WORK WILL BE MEASURED IN UNITS OF LINEAR FEET, COMPLETE, AND PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR THE RESPECTIVE SIZE OF THE WATER MAIN. THIS PRICE SHALL INCLUDE EXCAVATION, SHEETING AND SHORING, BEDDING, BACKFILL, COMPACTION, CONNECTIONS TO THE EXISTING WATER MAINS, TESTING, DEWATERING, AND THE FOLLOWING, BASED ON THE RESPECTIVE SIZE OF THE WATER MAIN:

   – BRANCHES, BENDS, REDUCERS, CAPS, AND PLUGS (12" AND LESS), INCLUDING CONCRETE THRUST RESTRAINTS, AND ASSOCIATED FITTINGS

   – LONG SOLID SLEEVES

   – RESTRAINED JOINT PIPE, PIPE RESTRAINT, AND IDENTIFICATION TAPE

   – POLYETHYLENE ENCASEMENT

   EXCAVATION SUPPORT SYSTEMS AND PIPE SUPPORT SYSTEMS WILL NOT BE MEASURED FOR SEPARATE PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE WATER MAIN.

   ABANDONMENT OR REMOVAL OF EXISTING WATER MAINS WILL INCLUDE, BUT WILL NOT BE LIMITED TO, CLOSING ALL VALVES; REMOVING VALVE BOXES, WATERLINE MARKERS, FIRE HYDRANTS, BOLLARDS, AND TEST STATIONS; CUTTING AND PLUGGING EXISTING WATER MAINS; REMOVING EXISTING WATER MAINS (AS REQUIRED); CRIMPING COPPER SERVICE LINES; COMPACTING; BACKFILLING WITH SUITABLE MATERIAL; DELIVERY OF SALVAGE MATERIALS TO FAIRFAX WATER'S STORAGE YARDS; AND OTHER ASSOCIATED WORK, WHERE INDICATED ON THE PLANS AND WHERE DIRECTED BY FAIRFAX WATER AND WILL NOT BE MEASURED FOR SEPARATE PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE WATER MAIN.

   IF THE CONTRACTOR IS REQUIRED TO INSTALL VITON GASKETS AS A RESULT OF ENCOUNTERING PETROLEUM CONTAMINATED SOILS (REFER TO WATER MAIN CONSTRUCTION NOTE 39, SHEET 100), THE CONTRACTOR WILL BE COMPENSATED FOR THE VITON GASKETS BASED ON ACTUAL INVOICED PRICE MINUS THE COST FOR THE STANDARD GASKET, PLUS APPROVED MARK–UP PER THE CONTRACT REQUIREMENTS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR THE INSTALLATION OF THE VITON GASKETS.

3. PRESTRESSED CONCRETE CYLINDER PIPE TIE–IN WILL BE MEASURED IN UNITS OF EACH, COMPLETE IN PLACE, AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, WHICH PRICE SHALL INCLUDE CONNECTION TO THE WATER MAIN; AND ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, AS INDICATED ON THE P.C.C.P. TIE–IN DETAIL ON SHEET 107.

4. VALVES AND BOXES WILL BE MEASURED IN UNITS OF EACH, COMPLETE IN PLACE, AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH BASED ON ITS RESPECTIVE SIZE AND TYPE. THIS PRICE SHALL INCLUDE FULL COMPENSATION FOR FURNISHING AND INSTALLING THE GATE VALVE, FOR MAINS UP TO 14–INCHES, OR THE BUTTERFLY VALVE, FOR MAINS 16–INCHES AND LARGER; VALVE BOXES; CONNECTION TO THE WATER MAIN; AND ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, INCLUDING EXCAVATION, BEDDING, BACKFILL, AND COMPACTION.

5. AIR RELEASE ASSEMBLY WILL BE MEASURED IN UNITS OF EACH, COMPLETE IN PLACE, AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, WHICH PRICE SHALL BE FULL FURNISHING AND INSTALLING THE GATE VALVE; PIPE AND FITTINGS; VALVE BOXES; CONNECTION TO THE WATER MAIN; AND ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, AS INDICATED ON THE TWO–INCH AIR RELEASE ASSEMBLY DETAIL ON SHEET 107.

6. FIRE HYDRANT WILL BE MEASURED IN UNITS OF EACH, COMPLETE IN PLACE, AND PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH, WHICH PRICE SHALL INCLUDE FULL COMPENSATION FOR THE HYDRANT; CONNECTION TO HYDRANT LEG PIPING; FITTINGS; CONCRETE THRUST RESTRAINT; AND ALL OTHER MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, AS INDICATED IN THE HYDRANT DETAIL ON SHEET 107.

50% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
UTILITY DESIGN & CONSTRUCTION DIVISION
12000 GOVERNMENT CENTER PARKWAY, SUITE 449, FAIRFAX, VA 22035–0052

REVISIONS	△#	DESCRIPTION	BY	APPROVED	DATE

OFFICE OF CAPITAL FACILITIES
703–324–5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
PAY ITEM NOTES & SUMMARY OF QUANTITIES

PROJECT NO. 1400102–2013

SCALE
HORIZ: N/A
VERT:

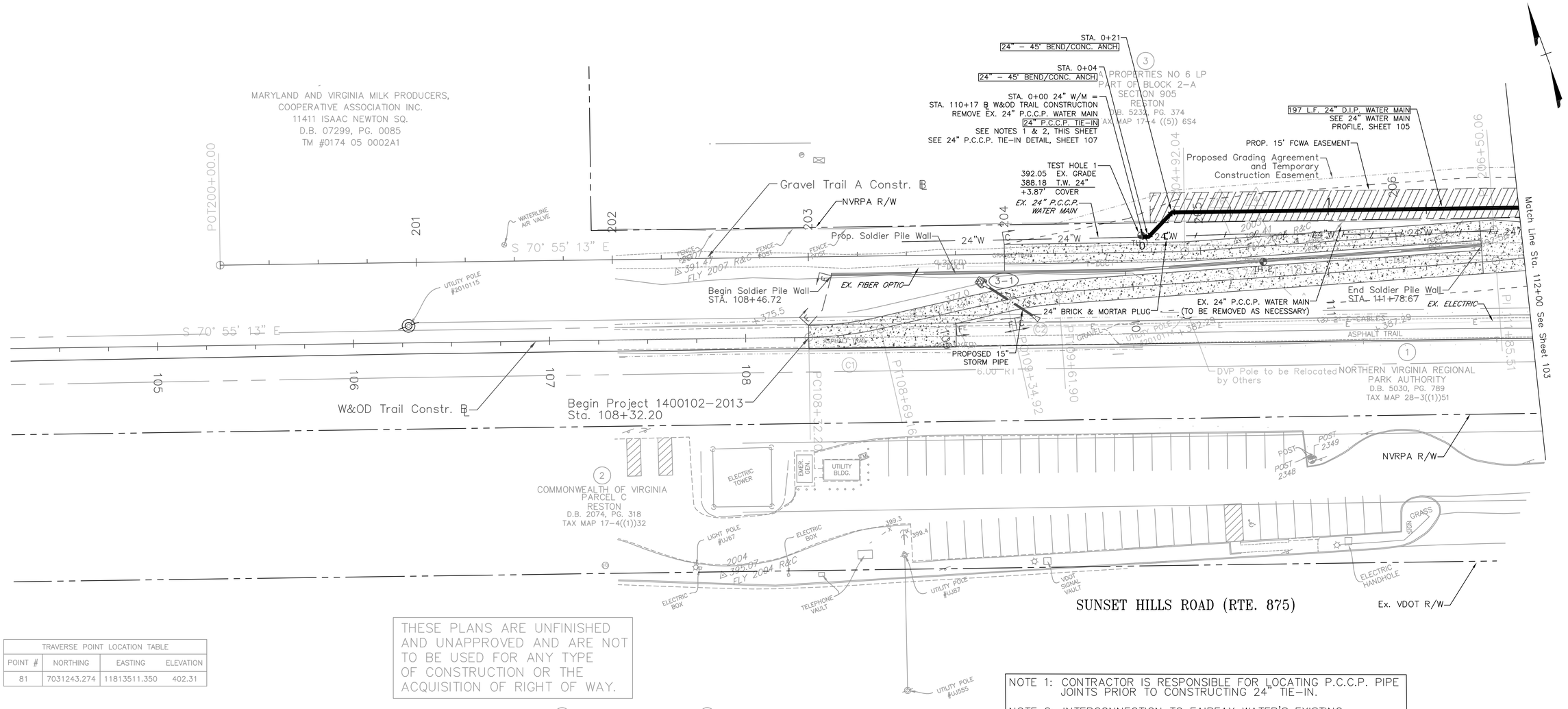
DESIGNED BY: RCP
DRAFTED BY: ARS
CHECKED BY: RCC

SHEET 101

FUND NO. 500–C5000

FOR FAIRFAX WATER ADJUSTMENTS ONLY

FAIRFAX WATER
WATER SYSTEM ADJUSTMENTS
FAIRFAX WATER PROJECT 2592 DIVISION 1



TRAVERSE POINT LOCATION TABLE			
POINT #	NORTHING	EASTING	ELEVATION
81	7031243.274	11813511.350	402.31

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

LEGEND

- Proposed Pavement Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- C —— Denotes Construction Limits in Cuts
- F _ _ _ _ Denotes Construction Limits in Fills
- ——— Denotes Proposed Graded "V" Ditch

1. ST'D CG-6 REQUIRED
2. ST'D RADIAL CG-6 REQUIRED
3. 10' WIDE CONCRETE SIDEWALK
4. 10' WIDE ASPHALT TRAIL
5. 12' WIDE ASPAHLT TRAIL
6. ST'D CG-12 TYPE B MODIFIED REQUIRED
7. ST'D CG-12 TYPE C REQUIRED
8. TIE INTO EXISTING CURB & GUTTER
9. FULL DEPTH SAWCUT
10. ST'D MS-2 REQUIRED
11. RELOCATE EXISTING UTILITY BY OTHERS
12. ST'D VDOT UD-4
13. ST'D VDOT MC-3
14. REMOVE EXISTING CURB, CURB RAMP OR SIDEWALK
15. ST'D VDOT FE-CL
16. RELOCATE EXISTING UTILITY

(C1) Curve WO&D-1
PI = 108+50.75
DELTA = 12° 06' 08.46" (LT)
D = 32° 44' 26"
T = 18.55'
L = 36.96'
R = 175.00'
PC = 108+32.20
PT = 108+69.16

(C2) Curve WO&D-2
PI = 109+48.44
DELTA = 8° 50' 03.43" (RT)
D = 32° 44' 26"
T = 13.52'
L = 26.98'
R = 175.00'
PC = 109+34.92
PT = 109+61.90

NOTES:

1. GRADE AROUND TRAIL TO ENSURE POSITIVE DRAINAGE (2:1 MAX, 3:1 PREFERRED).
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONTRUCTION.

SCALE 0 25' 50'

50% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

NOTE 1: CONTRACTOR IS RESPONSIBLE FOR LOCATING P.C.C.P. PIPE JOINTS PRIOR TO CONSTRUCTING 24" TIE-IN.

NOTE 2: INTERCONNECTION TO FAIRFAX WATER'S EXISTING TRANSMISSION MAINS WILL ONLY BE BETWEEN OCTOBER 15 AND APRIL 15, UNLESS OTHERWISE APPROVED.

EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
UTILITY DESIGN & CONSTRUCTION DIVISION
12000 GOVERNMENT CENTER PARKWAY, SUITE 449, FAIRFAX, VA 22035-0052

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
PLAN

PROJECT NO. 1400102-2013

SCALE	DESIGNED BY:	SHEET
HORIZ: 1"=25'	DRAFTED BY: ARS	102
VERT: N/A	CHECKED BY: RCC	

FUND NO. 500-C5000

FAIRFAX WATER
WATER SYSTEM ADJUSTMENTS
FAIRFAX WATER PROJECT 2592 DIVISION 1

FOR FAIRFAX WATER ADJUSTMENTS ONLY

NOTE 1: CONTRACTOR SHALL INSTALL AND PLACE INTO SERVICE PROPOSED 24" WATER MAIN PRIOR TO ABANDONMENT. CONTRACTOR SHALL ABANDON SEGMENTS OF EXISTING 24" P.C.C.P WATER MAIN WITHIN LOADING PLANE OF PROPOSED MSE WALL BY FILLING WITH FLOWABLE FILL. CONTRACTOR MAY REMOVE COMPLETELY THOSE SEGMENTS IN LIEU OF FLOWABLE FILL PLACEMENT. CONTRACTOR SHALL INSTALL BRICK AND MORTAR END SEALS (CUT AND CAP) AT EACH END OF SEGMENTS THAT ARE TO BE ABANDONED-IN-PLACE.

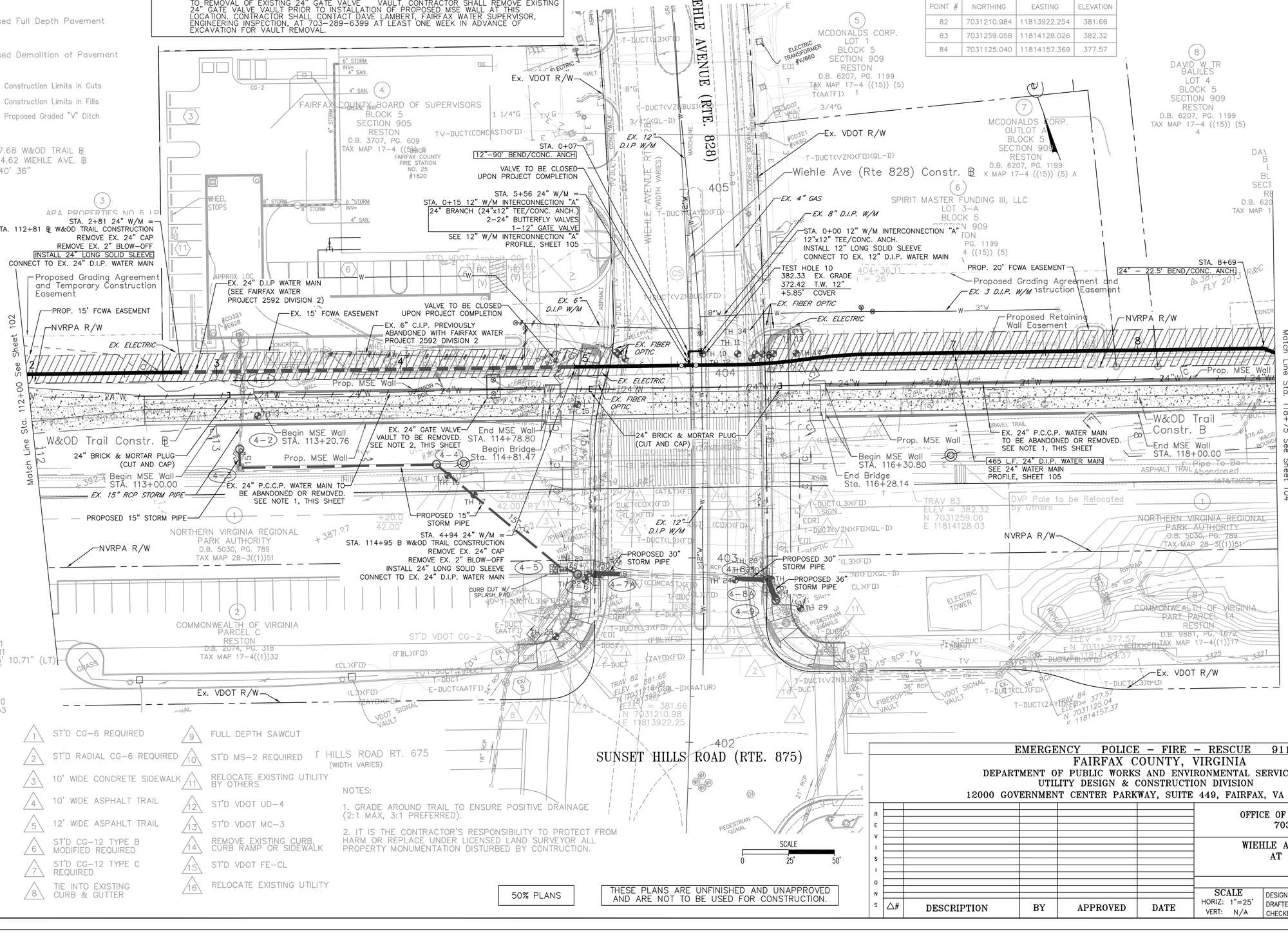
NOTE 2: CONTRACTOR SHALL INSTALL AND PLACE INTO SERVICE PROPOSED 24" WATER MAIN PRIOR TO REMOVAL OF EXISTING 24" GATE VALVE VAULT. CONTRACTOR SHALL REMOVE EXISTING 24" GATE VALVE VAULT PRIOR TO INSTALLATION OF PROPOSED MSE WALL AT THIS LOCATION. CONTRACTOR SHALL CONTACT DAVE LAMBERT, FAIRFAX WATER SUPERVISOR, ENGINEERING INSPECTION, AT 703-289-6399 AT LEAST ONE WEEK IN ADVANCE OF EXCAVATION FOR VAULT REMOVAL.

LEGEND

- Proposed Pavement Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- C —— Denotes Construction Limits in Cuts
- F —— Denotes Construction Limits in Fills
- —— Denotes Proposed Graded "V" Ditch

(1) Sta. 115+57.68 W&OD TRAIL ℄
Sta. 403+84.62 WIEHLE AVE. ℄
△ = 89° 40' 36"

TRAVERSE POINT LOCATION TABLE			
POINT #	NORTHING	EASTING	ELEVATION
82	7031210.984	11813922.254	381.66
83	7031259.058	11814128.026	382.32
84	7031125.040	11814157.369	377.57



C5 Curve WIEHLE-1
PI = 403+89.81
DELTA = 8° 35' 10.71" (LT)
D = 1° 29' 03"
T = 289.81'
L = 578.53'
R = 3,860.50'
PC = 401+00.00
PT = 406+78.53

1	ST'D CG-6 REQUIRED	9	FULL DEPTH SAWCUT
2	ST'D RADIAL CG-6 REQUIRED	10	ST'D MS-2 REQUIRED
3	10' WIDE CONCRETE SIDEWALK	11	RELOCATE EXISTING UTILITY BY OTHERS
4	10' WIDE ASPHALT TRAIL	12	ST'D VDOT UD-4
5	12' WIDE ASPAHLT TRAIL	13	ST'D VDOT MC-3
6	ST'D CG-12 TYPE B MODIFIED REQUIRED	14	REMOVE EXISTING CURB, CURB RAMP OR SIDEWALK
7	ST'D CG-12 TYPE C REQUIRED	15	ST'D VDOT FE-CL
8	TIE INTO EXISTING CURB & GUTTER	16	RELOCATE EXISTING UTILITY

NOTES:

1. GRADE AROUND TRAIL TO ENSURE POSITIVE DRAINAGE (2:1 MAX, 3:1 PREFERRED).
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONTRUCTION.

SCALE 0 25' 50'

50% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

EMERGENCY POLICE - FIRE - RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
UTILITY DESIGN & CONSTRUCTION DIVISION
12000 GOVERNMENT CENTER PARKWAY, SUITE 449, FAIRFAX, VA 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
PLAN

PROJECT NO. 1400102-2013

SCALE
HORIZ: 1"=25'
VERT: N/A

DESIGNED BY: RCP
DRAFTED BY: ARS
CHECKED BY: RCC

SHEET 103

FUND NO. 500-C5000

FOR FAIRFAX WATER ADJUSTMENTS ONLY

FAIRFAX WATER
WATER SYSTEM ADJUSTMENTS
FAIRFAX WATER PROJECT 2592 DIVISION 1

(C3) Curve WO&D-3
PI = 120+96.08
DELTA = 13° 05' 20.81" (RT)
D = 32° 44' 26"
T = 20.08'
L = 39.98'
R = 175.00'
PC = 120+76.01
PRC = 121+15.98

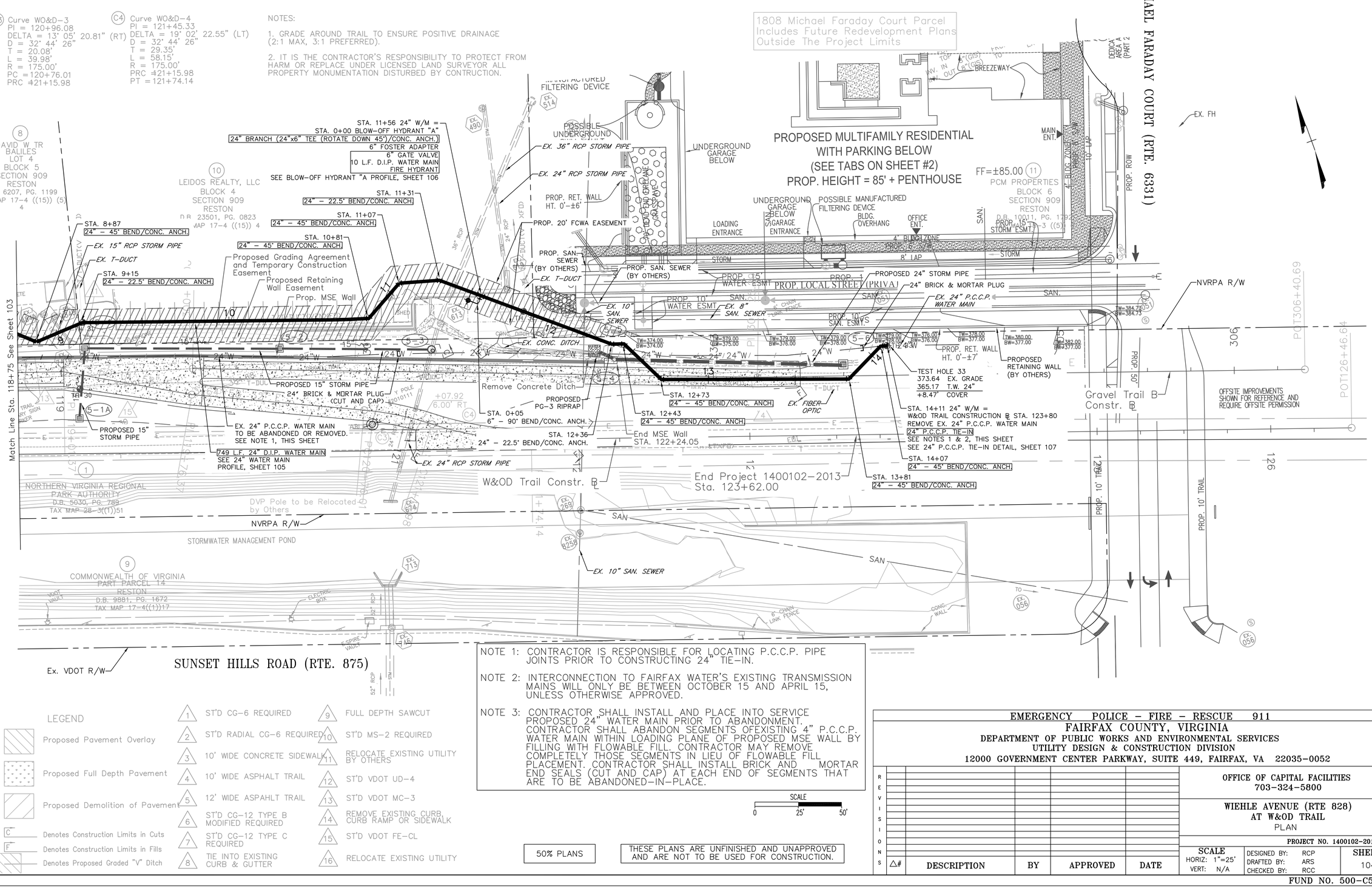
(C4) Curve WO&D-4
PI = 121+45.33
DELTA = 19° 02' 22.55" (LT)
D = 32° 44' 26"
T = 29.35'
L = 58.15'
R = 175.00'
PRC = 121+15.98
PT = 121+74.14

NOTES:

1. GRADE AROUND TRAIL TO ENSURE POSITIVE DRAINAGE (2:1 MAX, 3:1 PREFERRED).

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT FROM HARM OR REPLACE UNDER LICENSED LAND SURVEYOR ALL PROPERTY MONUMENTATION DISTURBED BY CONTRUCTION.

1808 Michael Faraday Court Parcel
Includes Future Redevelopment Plans
Outside The Project Limits



NOTE 1: CONTRACTOR IS RESPONSIBLE FOR LOCATING P.C.C.P. PIPE JOINTS PRIOR TO CONSTRUCTING 24" TIE-IN.

NOTE 2: INTERCONNECTION TO FAIRFAX WATER'S EXISTING TRANSMISSION MAINS WILL ONLY BE BETWEEN OCTOBER 15 AND APRIL 15, UNLESS OTHERWISE APPROVED.

NOTE 3: CONTRACTOR SHALL INSTALL AND PLACE INTO SERVICE PROPOSED 24" WATER MAIN PRIOR TO ABANDONMENT. CONTRACTOR SHALL ABANDON SEGMENTS OFEXISTING 4" P.C.C.P. WATER MAIN WITHIN LOADING PLANE OF PROPOSED MSE WALL BY FILLING WITH FLOWABLE FILL. CONTRACTOR MAY REMOVE COMPLETELY THOSE SEGMENTS IN LIEU OF FLOWABLE FILL PLACEMENT. CONTRACTOR SHALL INSTALL BRICK AND MORTAR END SEALS (CUT AND CAP) AT EACH END OF SEGMENTS THAT ARE TO BE ABANDONED-IN-PLACE.

SCALE 0 25' 50'

LEGEND

- Proposed Pavement Overlay
- Proposed Full Depth Pavement
- Proposed Demolition of Pavement
- C — Denotes Construction Limits in Cuts
- F — Denotes Construction Limits in Fills
- Denotes Proposed Graded "V" Ditch

1. ST'D CG-6 REQUIRED
2. ST'D RADIAL CG-6 REQUIRED
3. 10' WIDE CONCRETE SIDEWALK
4. 10' WIDE ASPHALT TRAIL
5. 12' WIDE ASPAHLT TRAIL
6. ST'D CG-12 TYPE B MODIFIED REQUIRED
7. ST'D CG-12 TYPE C REQUIRED
8. TIE INTO EXISTING CURB & GUTTER
9. FULL DEPTH SAWCUT
10. ST'D MS-2 REQUIRED
11. RELOCATE EXISTING UTILITY BY OTHERS
12. ST'D VDOT UD-4
13. ST'D VDOT MC-3
14. REMOVE EXISTING CURB, CURB RAMP OR SIDEWALK
15. ST'D VDOT FE-CL
16. RELOCATE EXISTING UTILITY

50% PLANS

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EMERGENCY POLICE – FIRE – RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
UTILITY DESIGN & CONSTRUCTION DIVISION
12000 GOVERNMENT CENTER PARKWAY, SUITE 449, FAIRFAX, VA 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
PLAN

PROJECT NO. 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

SCALE HORIZ: 1"=25' VERT: N/A

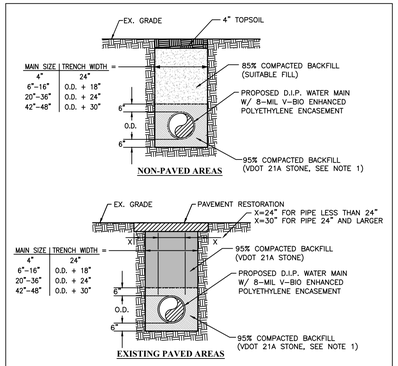
DESIGNED BY: RCP
DRAFTED BY: ARS
CHECKED BY: RCC

SHEET 104

FUND NO. 500-C5000

FOR FAIRFAX WATER ADJUSTMENTS ONLY

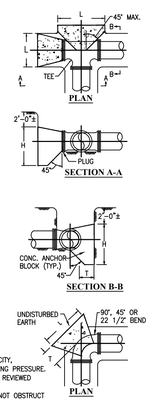
FAIRFAX WATER
WATER SYSTEM ADJUSTMENTS
FAIRFAX WATER PROJECT 2592 DIVISION 1



NOTES:
1. VDOT NO. 57 STONE SHALL BE USED AT CREEK CROSSINGS OR IN AREAS WHERE TRENCH CONTAINS GROUND WATER.
2. ALL PAVEMENT RESTORATION AND COMPACTED BACKFILL WITHIN VDOT RIGHT-OF-WAY SHALL ADHERE TO ALL APPLICABLE VDOT SPECIFICATIONS.
3. RESTRAINED JOINT PIPE SHALL BE IDENTIFIED WITH MARKING TAPE PLACED 2 FEET ABOVE PIPE.
4. ALL WATER MAIN INSTALLATION IN AREAS WITH PROPOSED PAVING SHALL ADHERE TO APPROVED DEVELOPMENT PLAN.

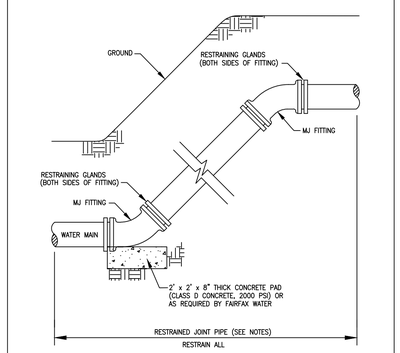
DATE: 7/17	FAIRFAX WATER STANDARD DETAILS TRENCH - DUCTILE IRON PIPE	SCALE: NOT TO SCALE DRAWING NO.: 12

PIPE SIZE INCHES	DEGREE OF BEND (ø)	(1) WORKING PRESSURE 175 PSI H	T
6	90	3.0	2.0	1.25
	45	2.0	1.5	1.0
	22.5	1.5	1.0	1.0
8	90	4.0	2.5	1.75
	45	2.5	2.0	1.0
	22.5	2.0	1.5	1.0
12	90	5.5	4.0	2.25
	45	4.0	3.0	1.5
	22.5	3.0	2.0	1.0
16	90	7.5	5.0	3.25
	45	5.0	4.5	2.0
	11.25/22.5	4.0	3.0	1.5
20	90	9.5	6.0	4.0
	45	7.0	4.5	2.75
	11.25/22.5	5.5	3.0	2.0
24	90	13.0	6.5	5.5
	45	9.0	5.0	3.5
	11.25/22.5	6.0	4.0	2.0



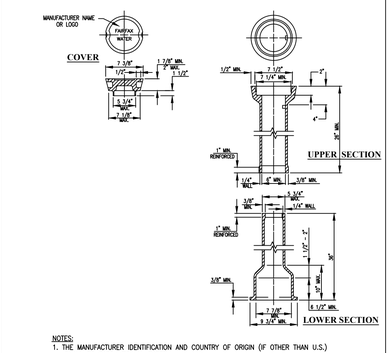
NOTES:
1. MINIMUM CONCRETE ANCHOR BLOCK DIMENSIONS IN FEET.
2. PROVIDE FORM WORK FOR ALL CONCRETE.
3. CONCRETE SHALL BE CLASS D 2000 PSI.
4. THE ABOVE TABLE IS BASED ON 2000 PSF SOIL BEARING CAPACITY, R=2PA SIN (ø/2) AND FOR A TEST PRESSURE = 1.5 x WORKING PRESSURE.
5. ANCHOR BLOCK DESIGN FOR PIPE LARGER THAN 24" SHALL BE REVIEWED ON AN INDIVIDUAL BASIS BY FAIRFAX WATER.
6. WRAP FITTING WITH POLYETHYLENE SHEETING. CONCRETE MUST NOT OBSTRUCT ACCESS TO MECHANICAL JOINT ASSEMBLY.
7. CONCRETE ANCHOR BLOCK DIMENSIONS FOR TEES TO BE SAME AS FOR 90° BENDS.
8. HEIGHT OF CONCRETE ANCHOR BLOCK ABOVE PIPE CENTERLINE IS 1/3 THE H DIMENSION.
9. BLOCKING SHALL BACK TO UNDISTURBED EARTH.

DATE: 7/17	FAIRFAX WATER STANDARD DETAILS CONCRETE THRUST ANCHORS	SCALE: NOT TO SCALE DRAWING NO.: 23



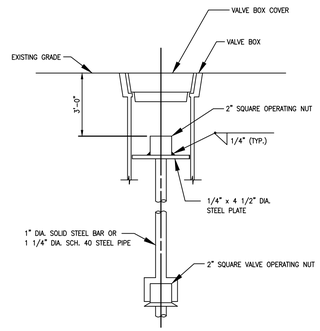
NOTES:
1. RESTRAIN MINIMUM 3 FULL JOINTS OF PIPE BEFORE AND AFTER FITTING FOR 8" DIAMETER WATER MAIN OR SMALLER, 4 FULL JOINTS OF PIPE FOR 12" DIAMETER WATER MAIN, OR AS REQUIRED BY FAIRFAX WATER (DUCTILE IRON ONLY).
2. OFFSET BENDS REQUIRE SIMILAR BLOCKING AND PIPE RESTRAINT.

DATE: 7/17	FAIRFAX WATER STANDARD DETAILS CONCRETE VERTICAL BLOCKING WATER MAINS LESS THAN OR EQUAL TO 12"	SCALE: NOT TO SCALE DRAWING NO.: 24



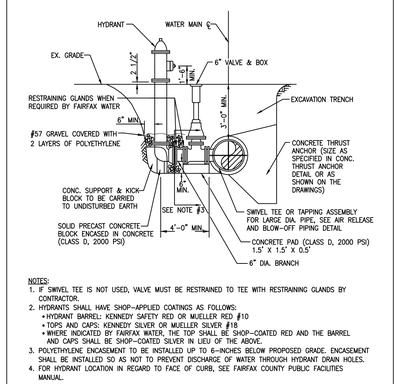
NOTES:
1. THE MANUFACTURER IDENTIFICATION AND COUNTRY OF ORIGIN (IF OTHER THAN U.S.) SHALL BE CAST INTO ALL PARTS.
2. GUARD POSTS ARE NOT TO BE INSTALLED AT VALVES UNLESS INDICATED ON DRAWINGS, OR AS SPECIFIED BY FAIRFAX WATER.
3. VALVE BOX MUST MEET SPECIFICATIONS CONTAINED IN FAIRFAX WATER'S APPROVED PRODUCTS LIST.
4. FOR VALVE BOXES DEEPER THAN SIX FEET, USE 5-INCH DIAMETER GRAY CAST IRON (SOIL) PIPE TO EXTEND STANDARD TOP AND BOTTOM SECTIONS.
5. STACKING OF VALVE BOX SECTIONS IS NOT ACCEPTABLE.

DATE: 7/17	FAIRFAX WATER STANDARD DETAILS VALVE BOX	SCALE: NOT TO SCALE DRAWING NO.: 27



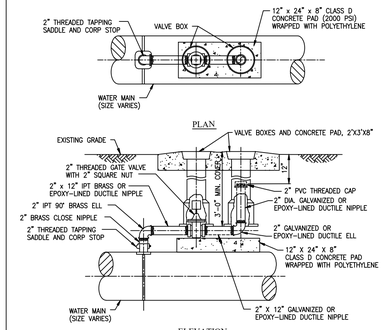
NOTES:
1. FOR VALVE BOXES DEEPER THAN SIX FEET, USE 5-INCH DIAMETER GRAY CAST IRON (SOIL) PIPE TO EXTEND STANDARD TOP AND BOTTOM SECTIONS.
2. STACKING OF VALVE BOX SECTIONS IS NOT ACCEPTABLE.

DATE: 7/17	FAIRFAX WATER STANDARD DETAILS VALVE STEM AND BOX EXTENSION	SCALE: NOT TO SCALE DRAWING NO.: 29



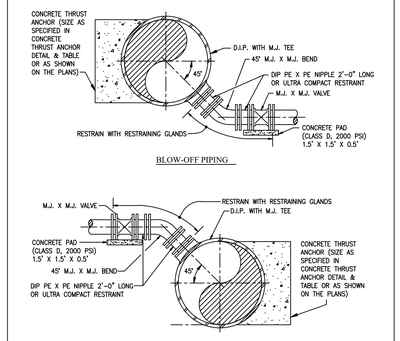
NOTES:
1. IF SWIVEL TEE IS NOT USED, VALVE MUST BE RESTRAINED TO TEE WITH RESTRAINING GLANDS BY CONTRACTOR.
2. HYDRANTS SHALL HAVE SHOP-APPLIED COATINGS AS FOLLOWS:
   - HYDRANT BARREL: KENNEDY SAFETY RED OR MUELLER RED #10
   - TOPS AND CAPS: KENNEDY SILVER OR MUELLER SILVER #18
   - WHERE INDICATED BY FAIRFAX WATER, THE TOP SHALL BE SHOP-COATED RED AND THE BARREL AND CAPS SHALL BE SHOP-COATED SILVER IN LIEU OF THE ABOVE.
3. POLYETHYLENE ENCASEMENT TO BE INSTALLED UP TO 6-INCHES BELOW PROPOSED GRADE. ENCASEMENT SHALL BE INSTALLED SO AS NOT TO PREVENT DISCHARGE OF WATER THROUGH HYDRANT DRAIN HOLES.
4. FOR HYDRANT LOCATION IN REGARD TO FACE OF CURB, SEE FAIRFAX COUNTY PUBLIC FACILITIES MANUAL.

DATE: 7/17	FAIRFAX WATER STANDARD DETAILS STANDARD HYDRANT INSTALLATION	SCALE: NOT TO SCALE DRAWING NO.: 30



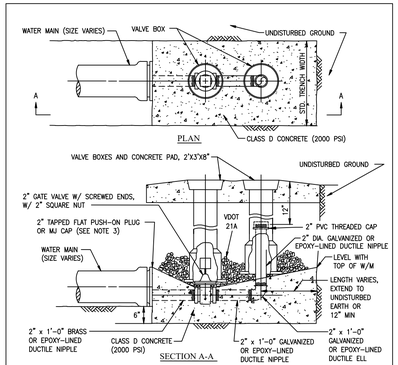
NOTES:
1. THREADED SADDLE TO BE USED ON 24" & LARGER WATER MAINS.

DATE: 7/17	FAIRFAX WATER STANDARD DETAILS 2" AIR RELEASE	SCALE: NOT TO SCALE DRAWING NO.: 35



NOTES:
1. CONCRETE PAD DIMENSIONS, APPURTENANT SIZES AND LAYOUT IN ACCORDANCE WITH THE DRAWINGS.
2. HYDRANT INSTALLATION FOR AIR RELEASE OR BLOW-OFF SHALL BE IN ACCORDANCE WITH STANDARD HYDRANT INSTALLATION.
3. ULTRA COMPACT RESTRAINT USED IN PLACE OF DIP NIPPLE, AS DIRECTED BY FAIRFAX WATER, SHALL BE A FOSTER ADAPTER OR EQUAL APPROVED BY FAIRFAX WATER.

DATE: 7/17	FAIRFAX WATER STANDARD DETAILS AIR RELEASE AND BLOW-OFF PIPING DUCTILE IRON PIPE 12" & LARGER	SCALE: NOT TO SCALE DRAWING NO.: 36



NOTES:
1. EXTEND BLOCKING BEYOND THE WATER MAIN TO UNDISTURBED GROUND OR AS SPECIFIED BY FAIRFAX WATER.
2. PER VDOT REQUIREMENTS, BLOW-OFF VALVE BOXES TO BE NO CLOSER THAN 5'-0" TO EDGE OF PAVEMENT IN CUL-DE-SAC INSTALLATIONS.
3. ECCENTRIC TAPPED PLUG OR CAP TO BE USED AT THE 12:00 O'CLOCK POSITION FOR AN AIR RELEASE OR THE 6:00 O'CLOCK POSITION FOR A BLOW-OFF ON WATER MAINS 12" AND LARGER. 8" AND SMALLER WATER MAINS TO BE CENTERLINE TAPPED. DISHED PLUGS AND CAPS SHALL BE PROVIDED WITH A BOSSED OUTLET SO THE 2" TAP IS PERPENDICULAR TO THE PLUG OR CAP.

DATE: 7/17	FAIRFAX WATER STANDARD DETAILS 2" BLOW-OFF	SCALE: NOT TO SCALE DRAWING NO.: 37

50% PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR CONSTRUCTION.

EMERGENCY POLICE - FIRE - RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
UTILITY DESIGN & CONSTRUCTION DIVISION
12000 GOVERNMENT CENTER PARKWAY, SUITE 449, FAIRFAX, VA 22035-0052

REVISIONS	△#	DESCRIPTION	BY	APPROVED	DATE

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
MISCELLANEOUS DETAILS

PROJECT NO. 1400102-2013

SCALE HORIZ: N/A VERT:
DESIGNED BY: RCP
DRAFTED BY: ARS
CHECKED BY: RCC
SHEET 107

FUND NO. 500-C5000

PROJECT MANAGER _ SCOTT RUFFNER, P.E., (703) 877-5736 _ _ _ _ _ _ _ _ _
SURVEYED BY, DATE _ FAIRFAX COUNTY, NOVEMBER 28, 2014 _ _ _ _ _ _ _ _
DESIGN BY _ _ WHITMAN, REQUARDT & ASSOCIATES, LLP _ (703) 293-9717 _ _ _
SUBSURFACE UTILITY BY, DATE _ SO DEEP, INC, (703) 361-6005 DECEMBER 23, 2014

INDEX OF SHEETS - CROSS SECTIONS

SHEET NO.	DESCRIPTION	STATIONS
XS-1	INDEX OF SHEETS - CROSS SECTIONS	
XS-2 THRU XS-20	CROSS SECTIONS W&OD TRAIL	STA.108+25.00 TO STA.123+25.00
XS-21 THRU XS-24	CROSS SECTIONS WIEHLE AVENUE (RTE.828)	STA.402+25.00 TO STA.405+25.00

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

Whitman, Requardt & Associates, LLP

EMERGENCY POLICE - FIRE - RESCUE 911

FAIRFAX COUNTY, VIRGINIA
DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL SERVICES
12000 GOVERNMENT CENTER PARKWAY, SUITE 449 FAIRFAX, VA., 22035-0052

OFFICE OF CAPITAL FACILITIES
703-324-5800

WIEHLE AVENUE (RTE 828)
AT W&OD TRAIL
INDEX OF SHEETS - CROSS SECTIONS

PROJECT NO: 1400102-2013

REVISIONS △#	DESCRIPTION	BY	APPROVED	DATE

APPROVED BY THE TRANSPORTATION DESIGN DIVISION

SCALE	DESIGNED: NDD	SHEET
NTS	DRAFTED: WRA	XS-1
	CHECKED: RBH	

FUND # 500-C5000

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5/8/02 PM

PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

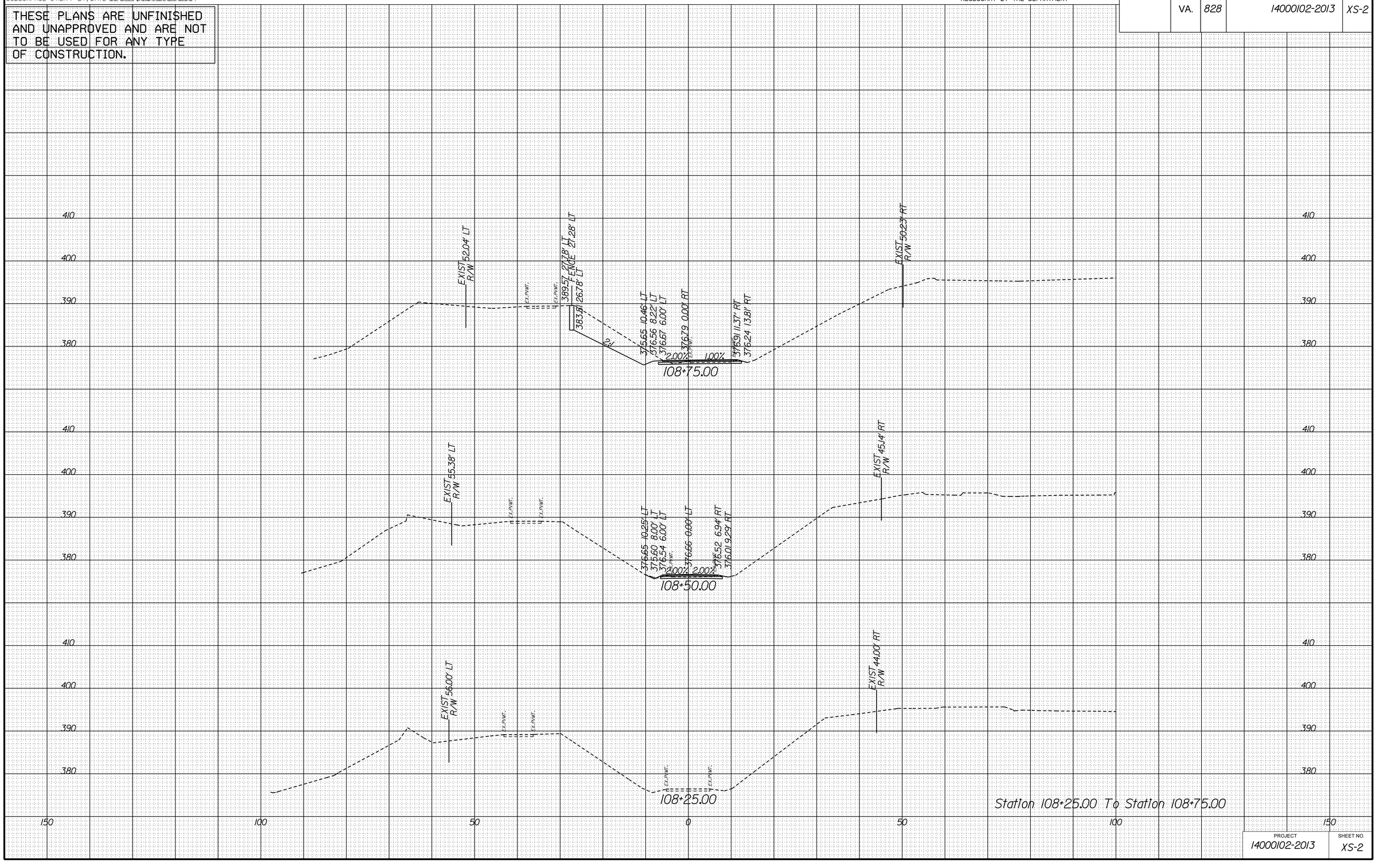
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-2

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 108+25.00 To Station 108+75.00

PROJECT	SHEET NO.
14000102-2013	XS-2

5/29/2018

N:\45494-027\CADD\Highway\45494027\d45494027\494027x.dgn

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703).877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703).293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703).361-6005

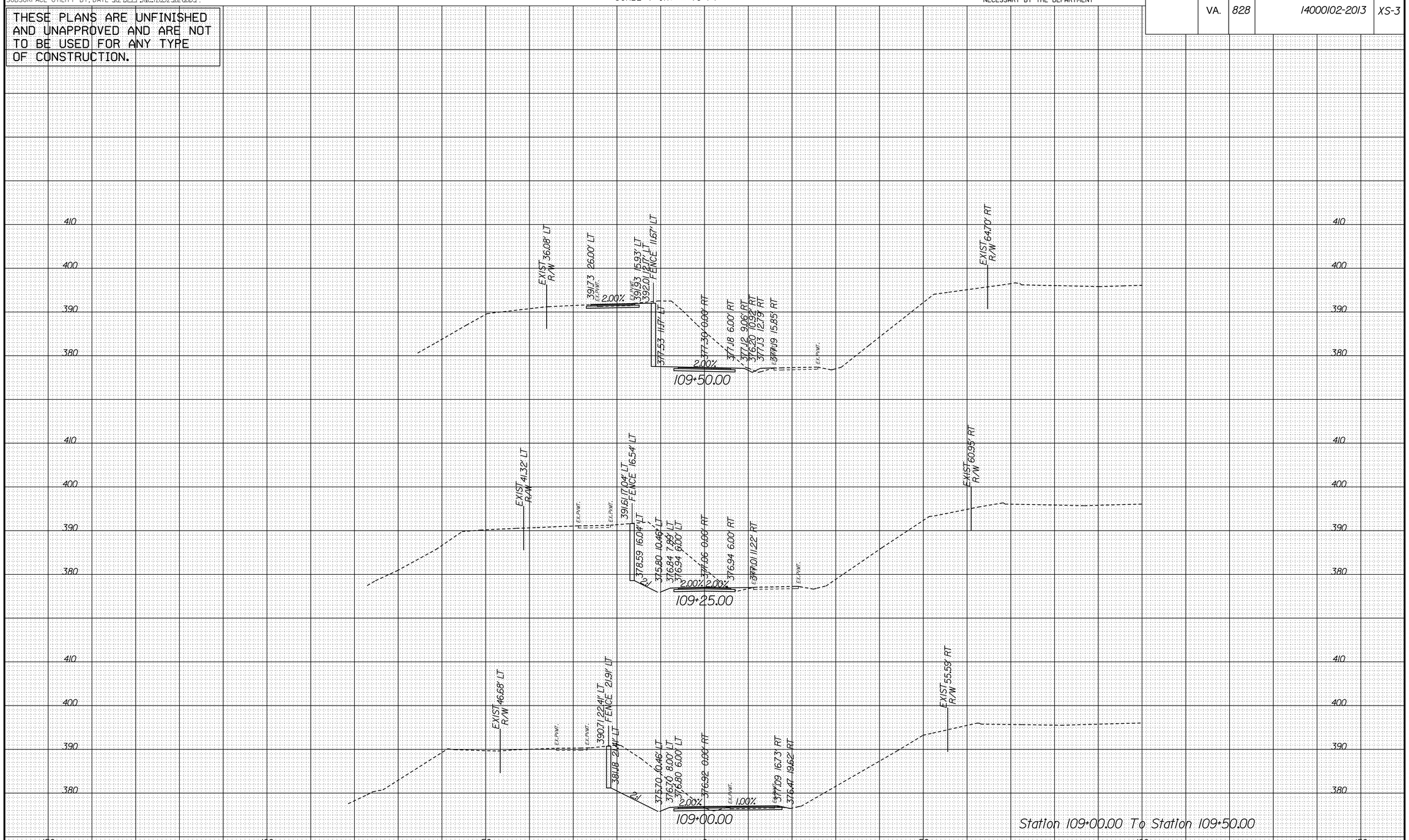
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-3



PROJECT	SHEET NO.
14000102-2013	XS-3

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

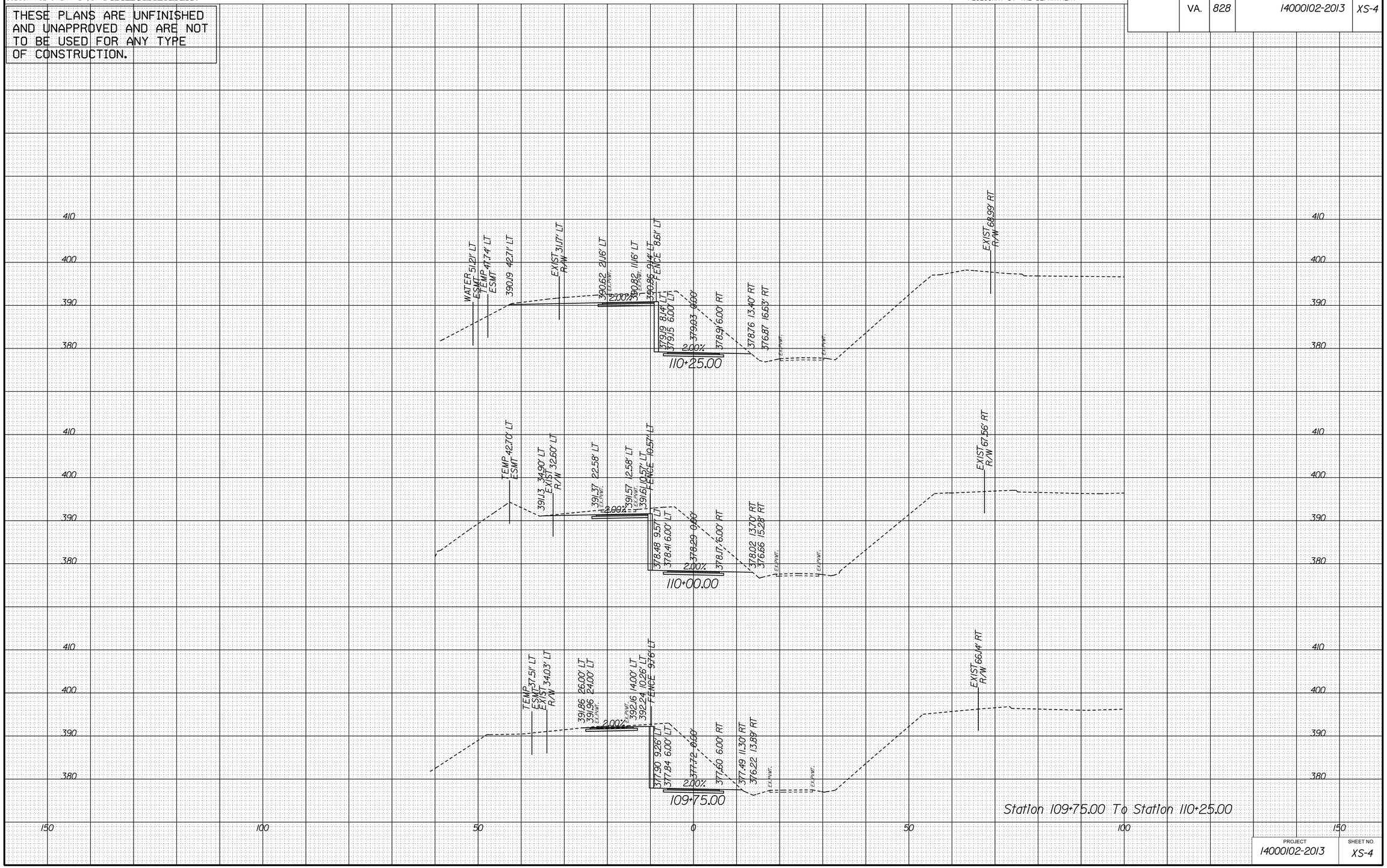
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-4



Station 109+75.00 To Station 110+25.00

PROJECT	SHEET NO.
14000102-2013	XS-4

5/29/2018

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18:42 PM

PROJECT MANAGER SCOTT RUEFNER, P.E. (703) 877-5736
SURVEYED BY, DATE FAIRFAX COUNTY, NOVEMBER 28, 2014
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703) 293-9717
SUBSURFACE UTILITY BY, DATE SO. DEEP, INC. (703) 361-6005

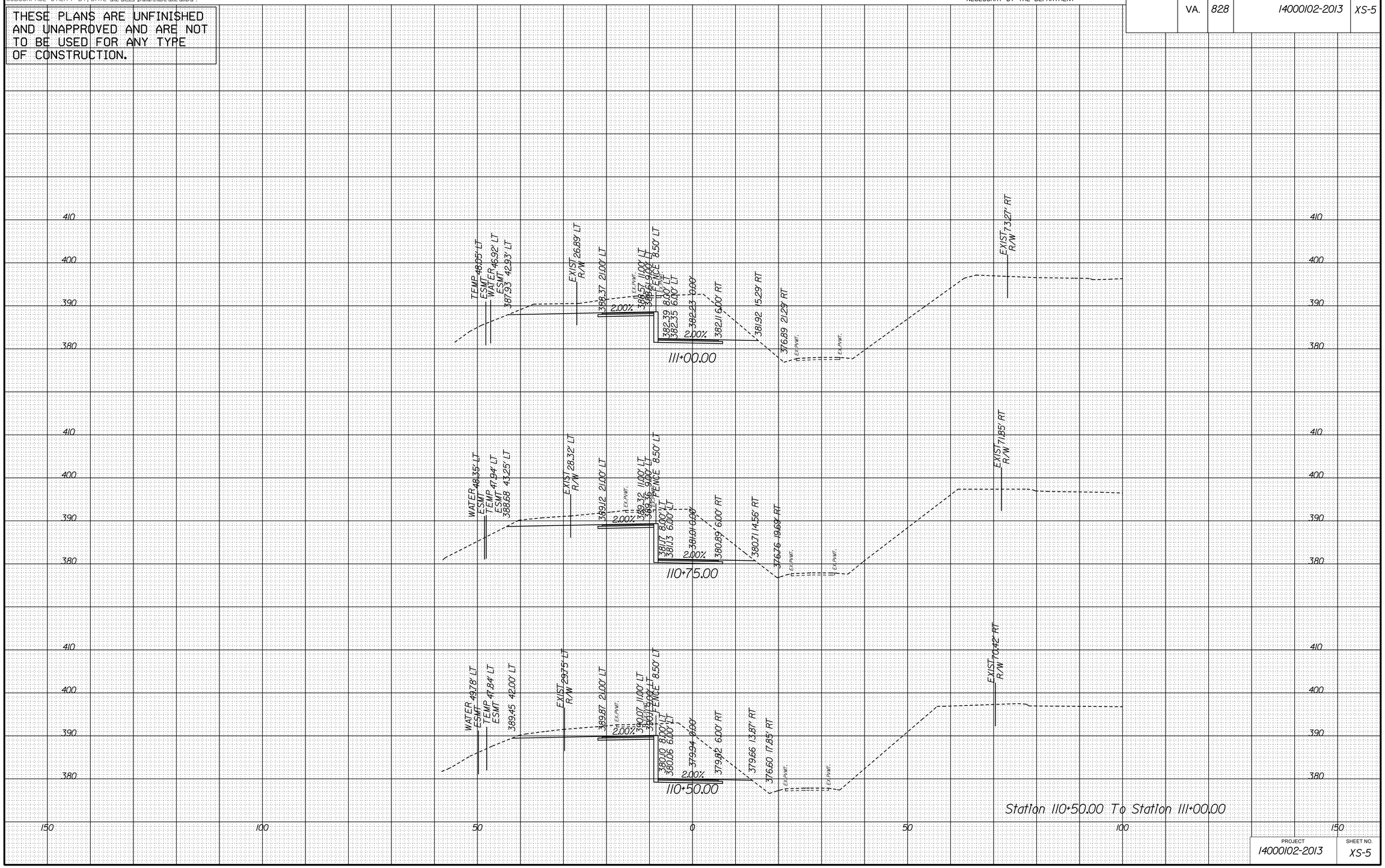
CROSS SECTIONS

SCALE 1 IN. = 10 FT

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-5



PROJECT	SHEET NO.
14000102-2013	XS-5

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

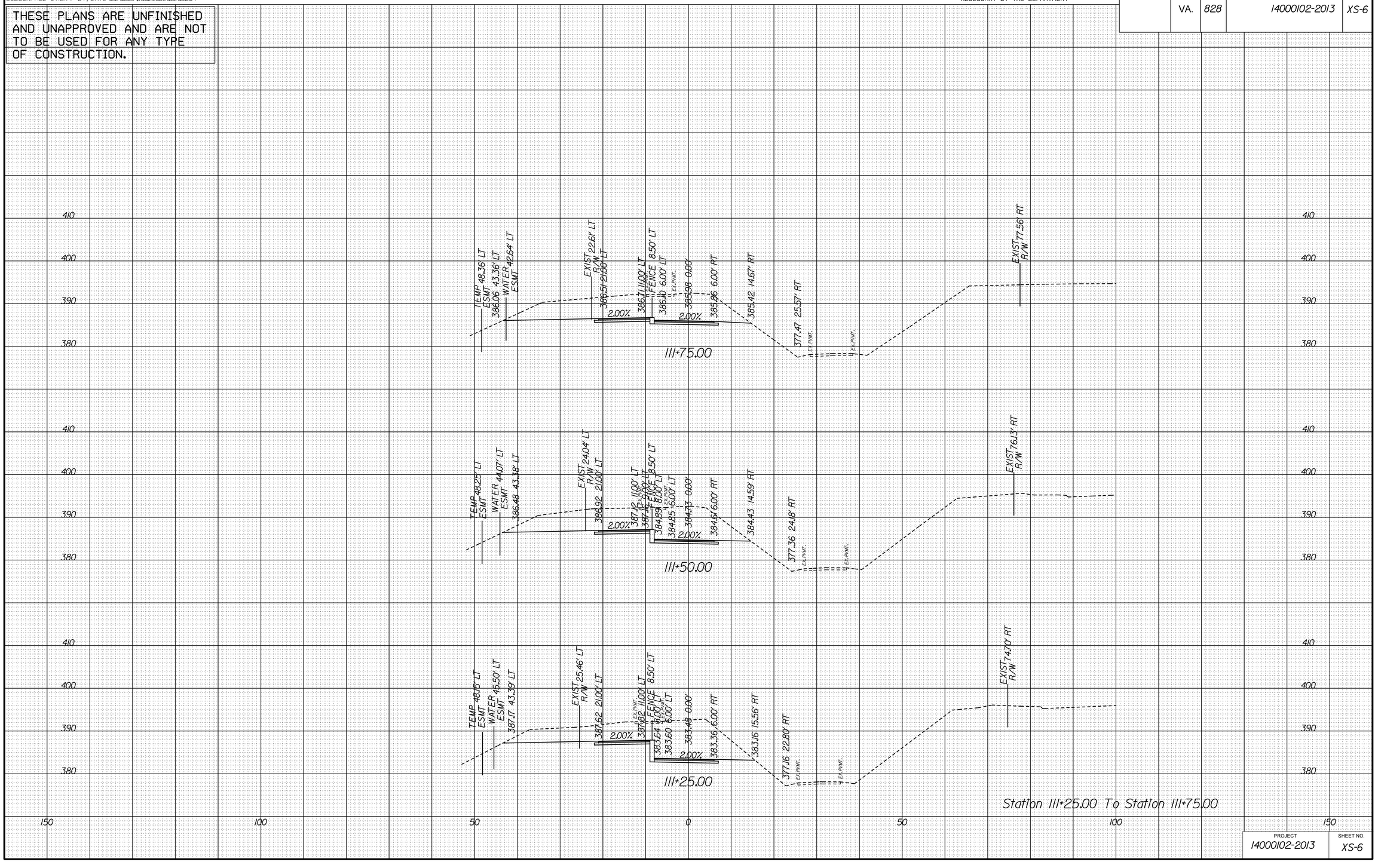
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-6

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 111+25.00 To Station 111+75.00

PROJECT	SHEET NO.
14000102-2013	XS-6

5/29/2018

PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

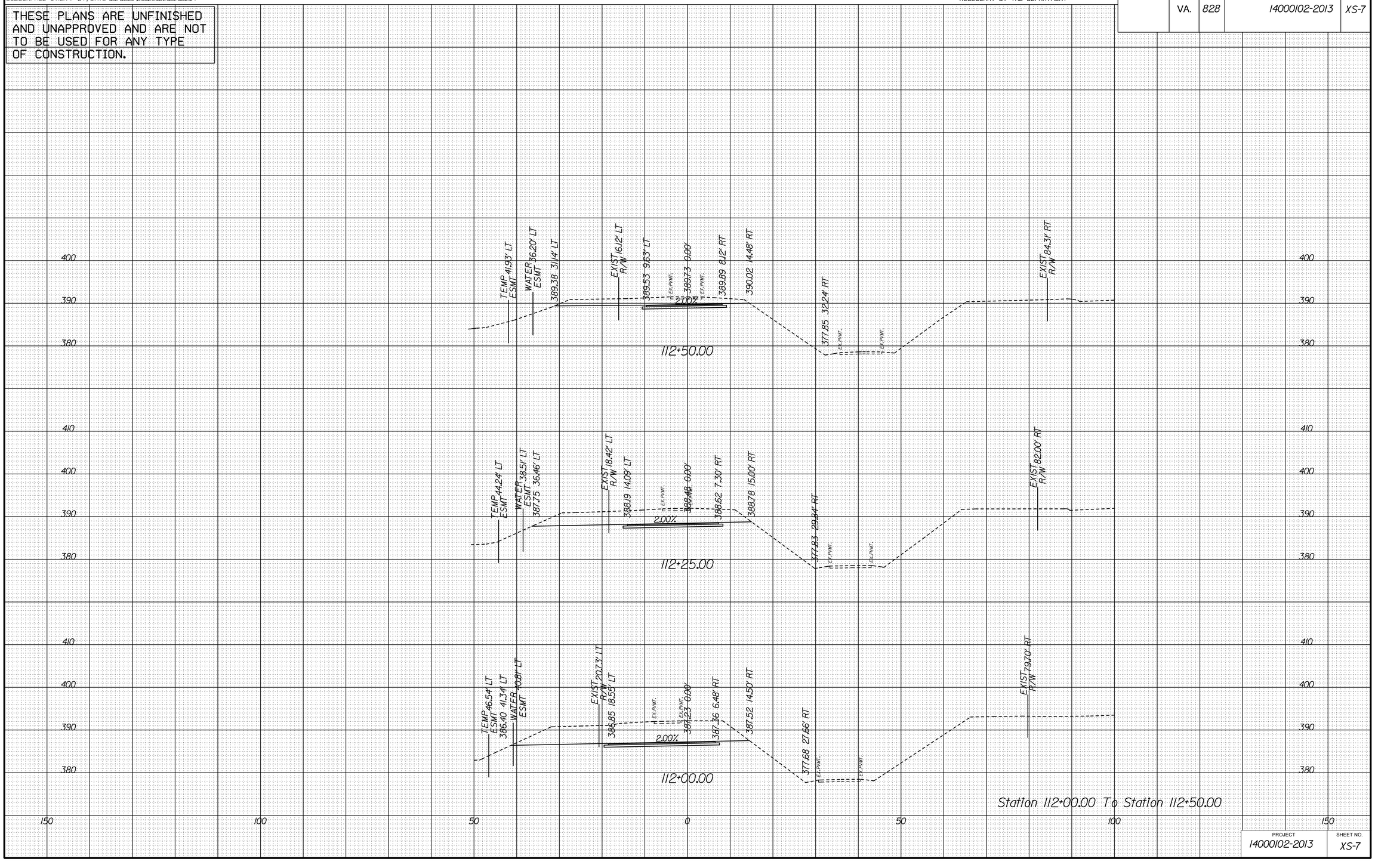
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-7

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 112+00.00 To Station 112+50.00

PROJECT	SHEET NO.
14000102-2013	XS-7

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

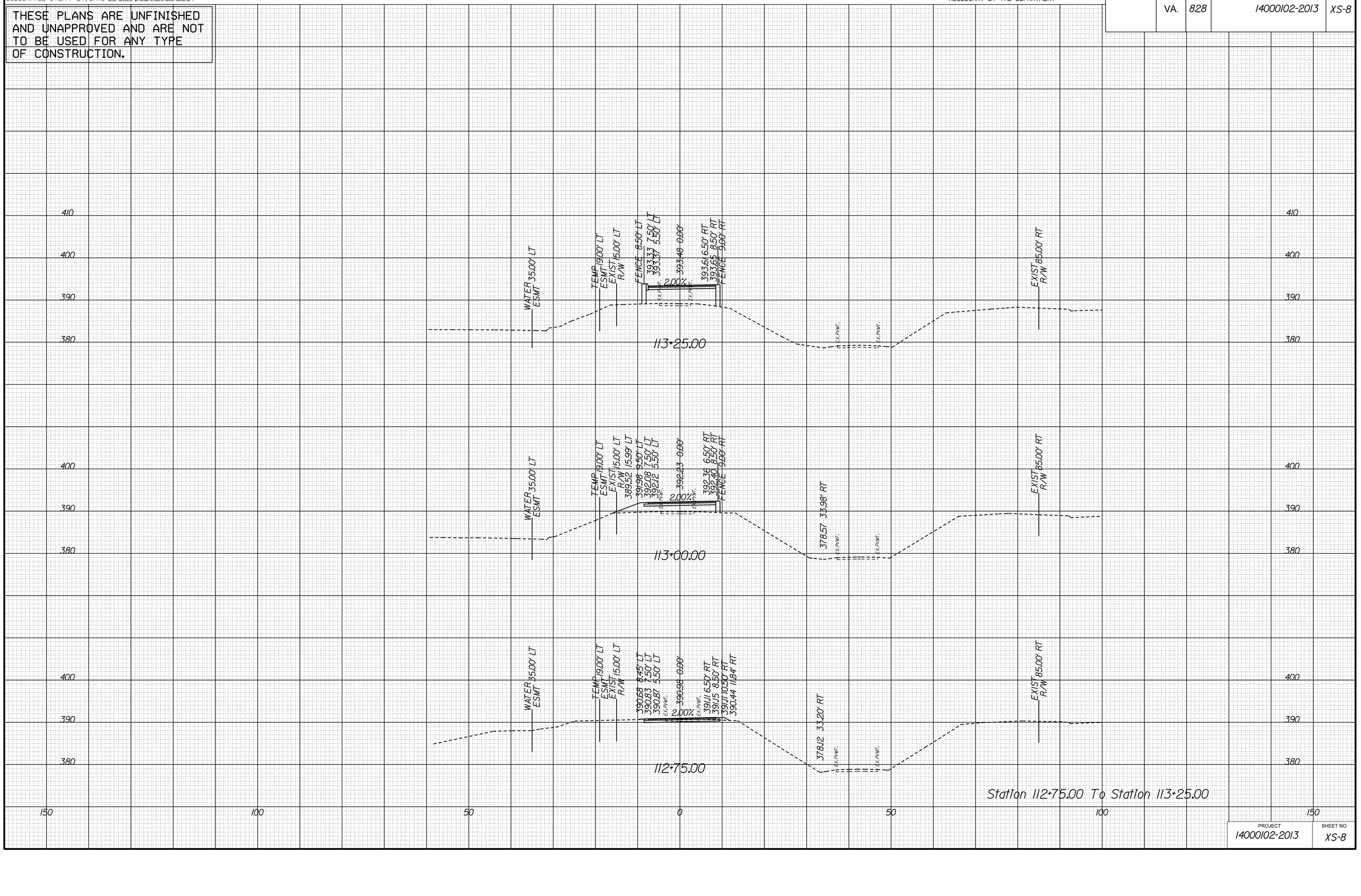
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-8

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 112+75.00 To Station 113+25.00

PROJECT	SHEET NO.
14000102-2013	XS-8

N:\45494-027\CADD\Highway\45494027\d45494027\494027x.dgn
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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

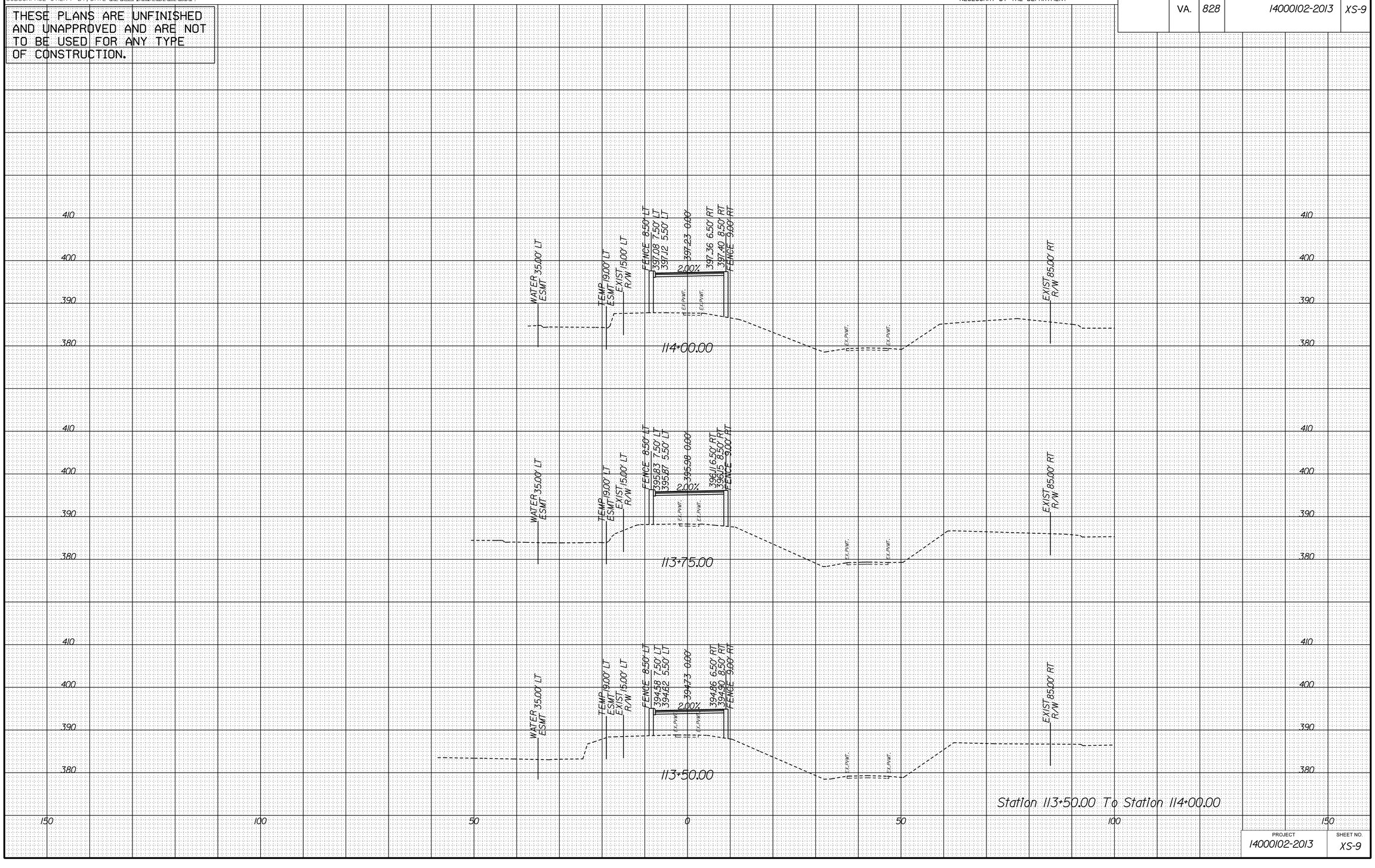
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-9

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 113+50.00 To Station 114+00.00

PROJECT	SHEET NO.
14000102-2013	XS-9

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

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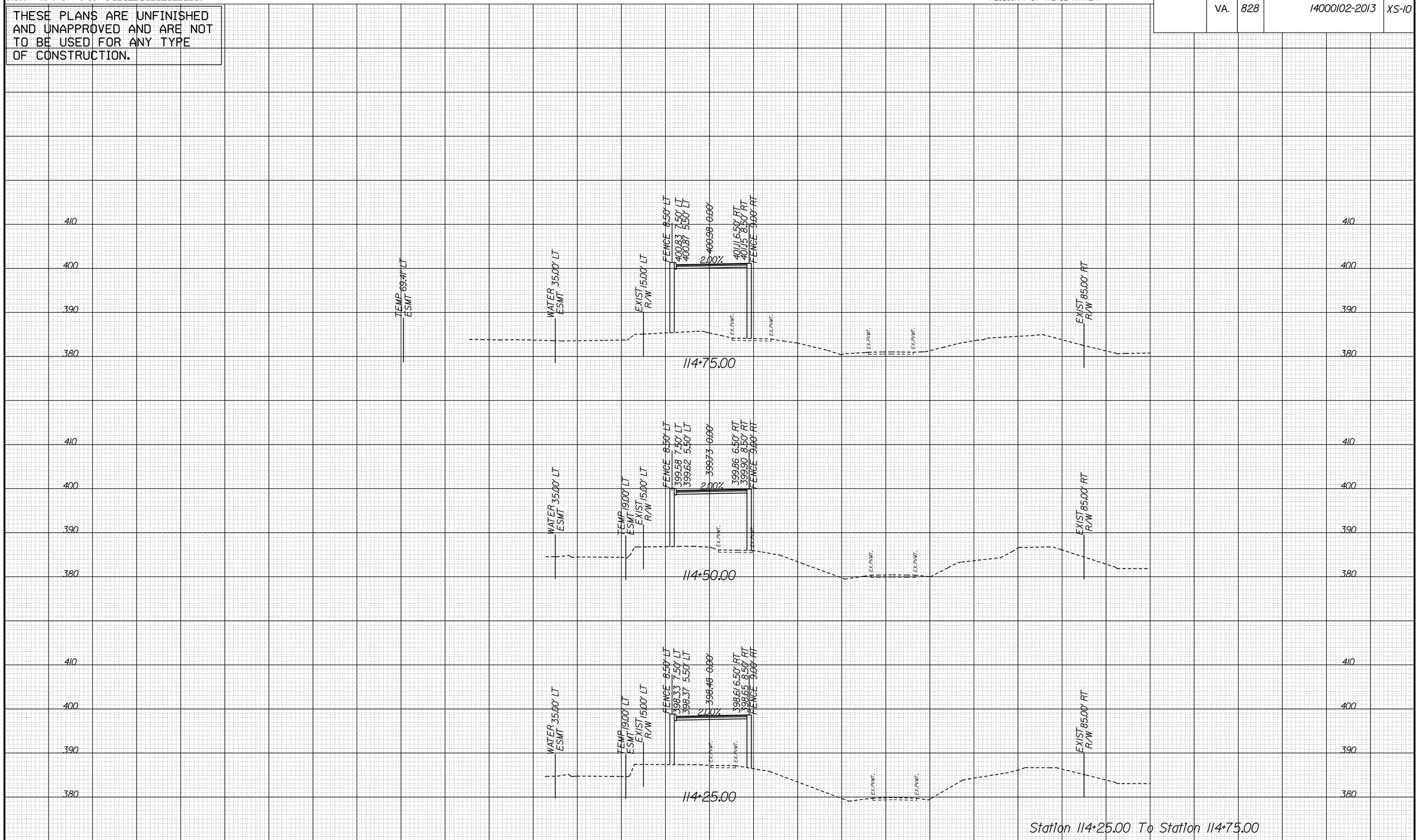
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-10



Station 114+25.00 To Station 114+75.00

PROJECT	SHEET NO.
14000102-2013	XS-10

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-11

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

END BRIDGE STA.116+28.14

116+25.00
TEMP ESMT 68.00' LT
WATER ESMT 35.77' LT
PERM ESMT 19.00' LT
EXIST R/W 15.77' LT
EX.PVMT.
EXIST R/W 84.23' RT

116+00.00
TEMP ESMT 68.00' LT
R/W 41.57' LT
WATER ESMT 35.76'
EXIST R/W 15.76' LT
EX.PVMT.
EXIST R/W 84.24' RT

115+75.00

115+50.00

115+25.00

115+00.00
WATER ESMT 35.00' LT
EXIST R/W 15.00' LT
EX.PVMT.
EXIST R/W 85.00' RT

BEGIN BRIDGE STA.114+81.81

Station 115+00.00 To Station 116+25.00

400 390 380

150 100 50 0 50 100 150

PROJECT	SHEET NO.
14000102-2013	XS-11

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

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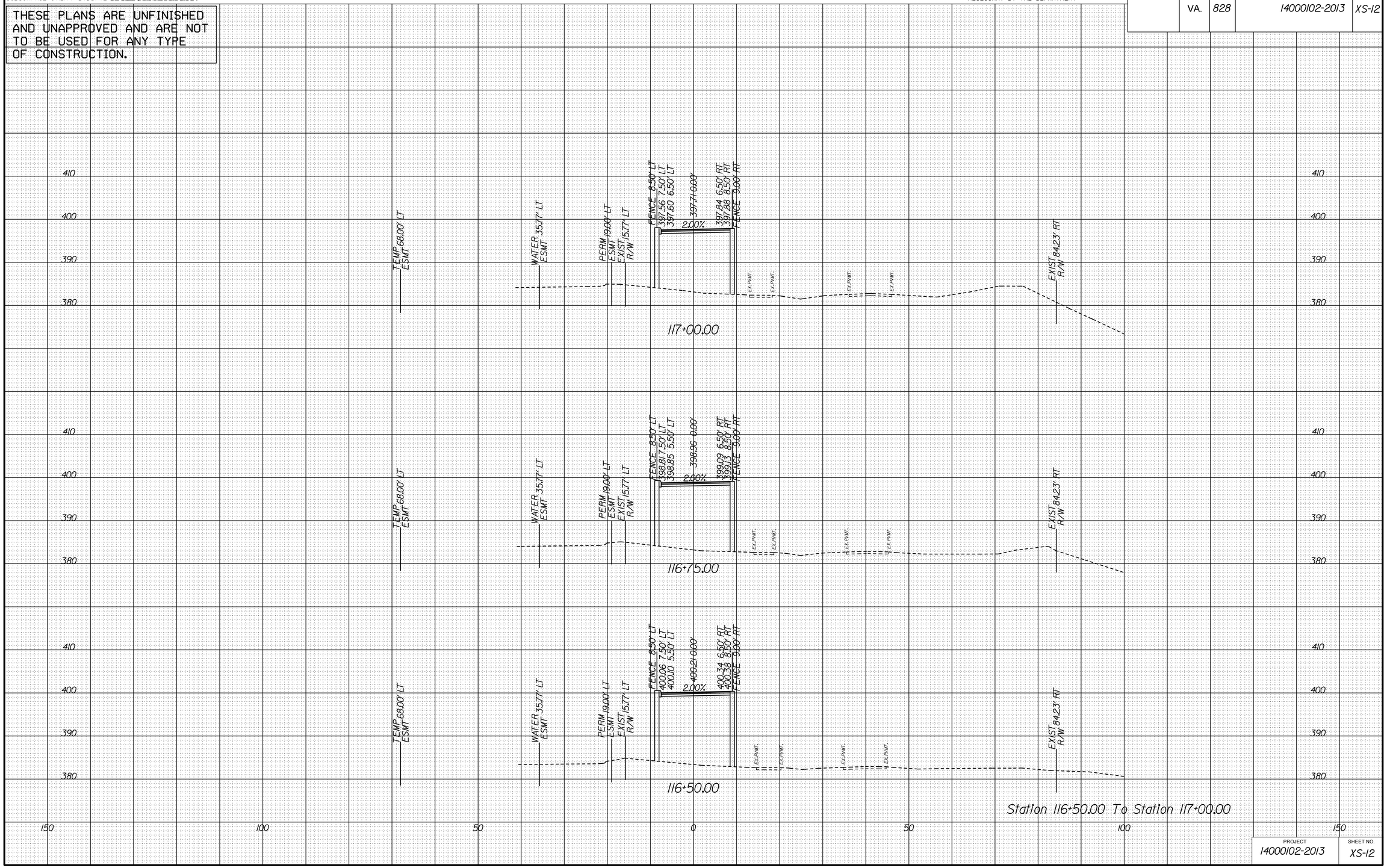
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-12



Station 116+50.00 To Station 117+00.00

PROJECT	SHEET NO.
14000102-2013	XS-12

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

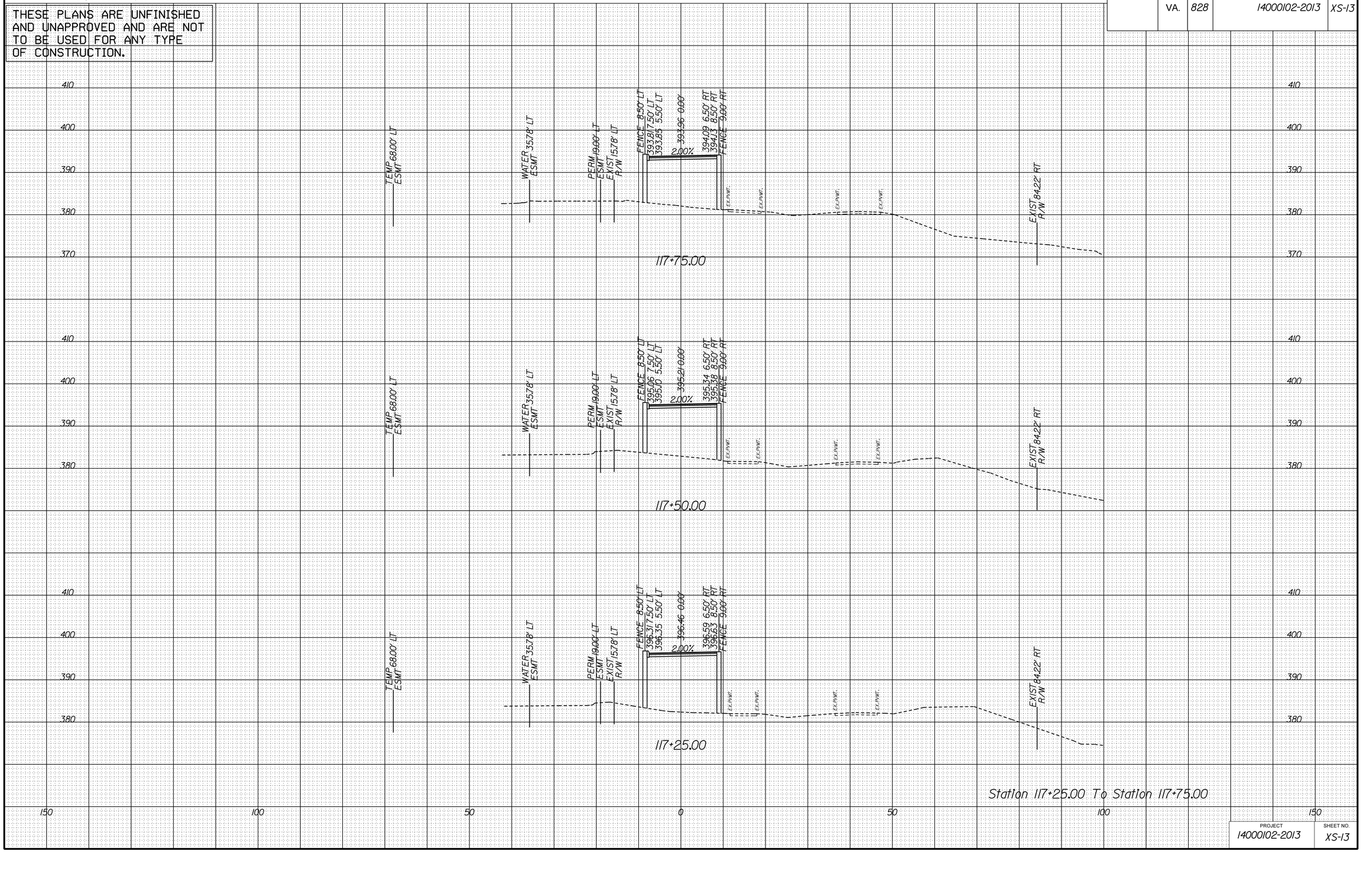
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-13

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 117+25.00 To Station 117+75.00

PROJECT	SHEET NO.
14000102-2013	XS-13

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703).877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703).293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703).361-6005

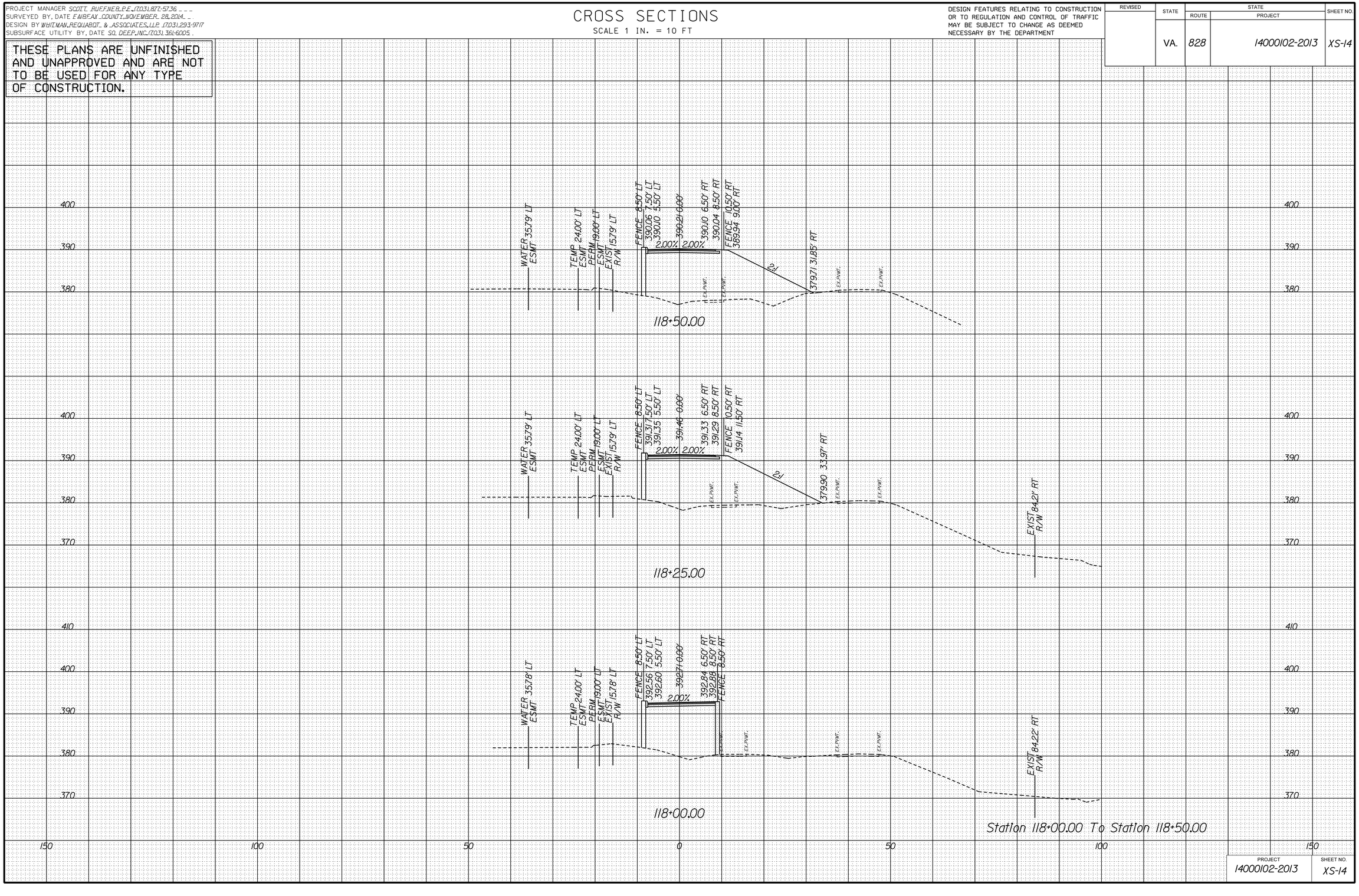
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-14

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



PROJECT	SHEET NO.
14000102-2013	XS-14

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703).877-5736
SURVEYED BY, DATE FAIRFAX COUNTY, NOVEMBER 28, 2014
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703).293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP, INC.(703).361-6005

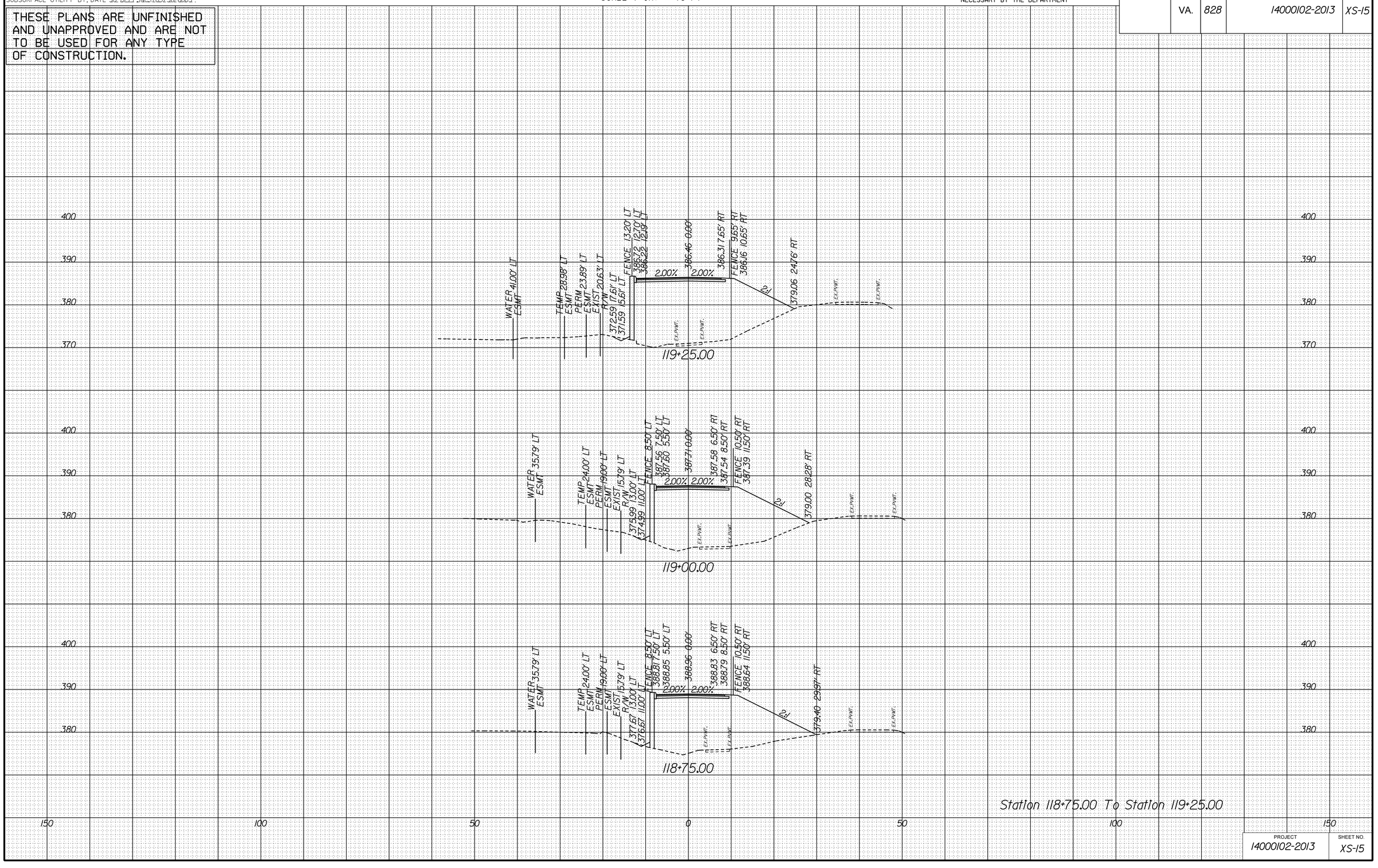
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-15

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 118+75.00 To Station 119+25.00

PROJECT	SHEET NO.
14000102-2013	XS-15

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703).877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703).293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703).361-6005

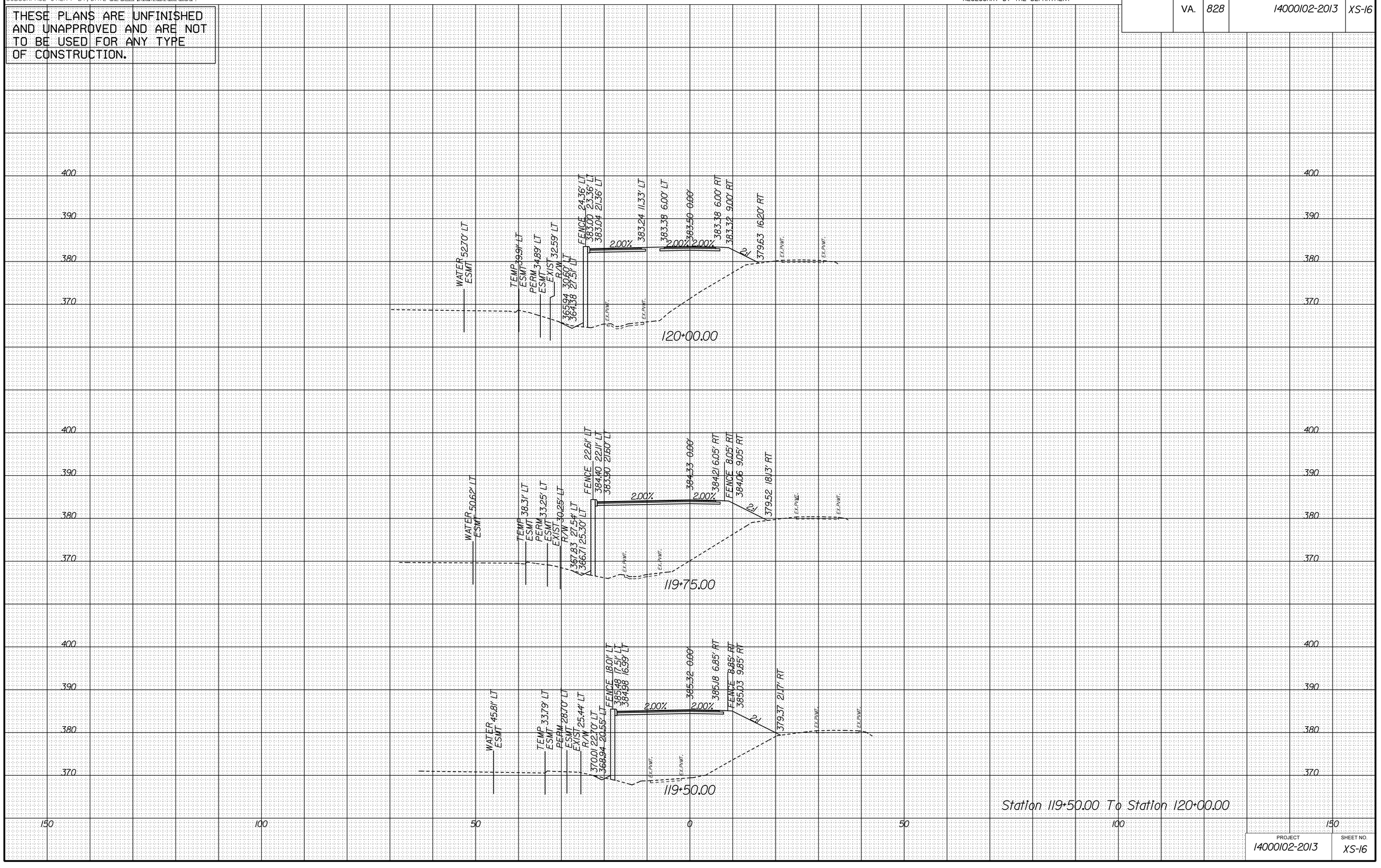
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-16

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 119+50.00 To Station 120+00.00

PROJECT	SHEET NO.
14000102-2013	XS-16

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY, NOVEMBER 28, 2014
DESIGN BY WHITMAN, REQUARDT & ASSOCIATES, LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP, INC.,(703)361-6005

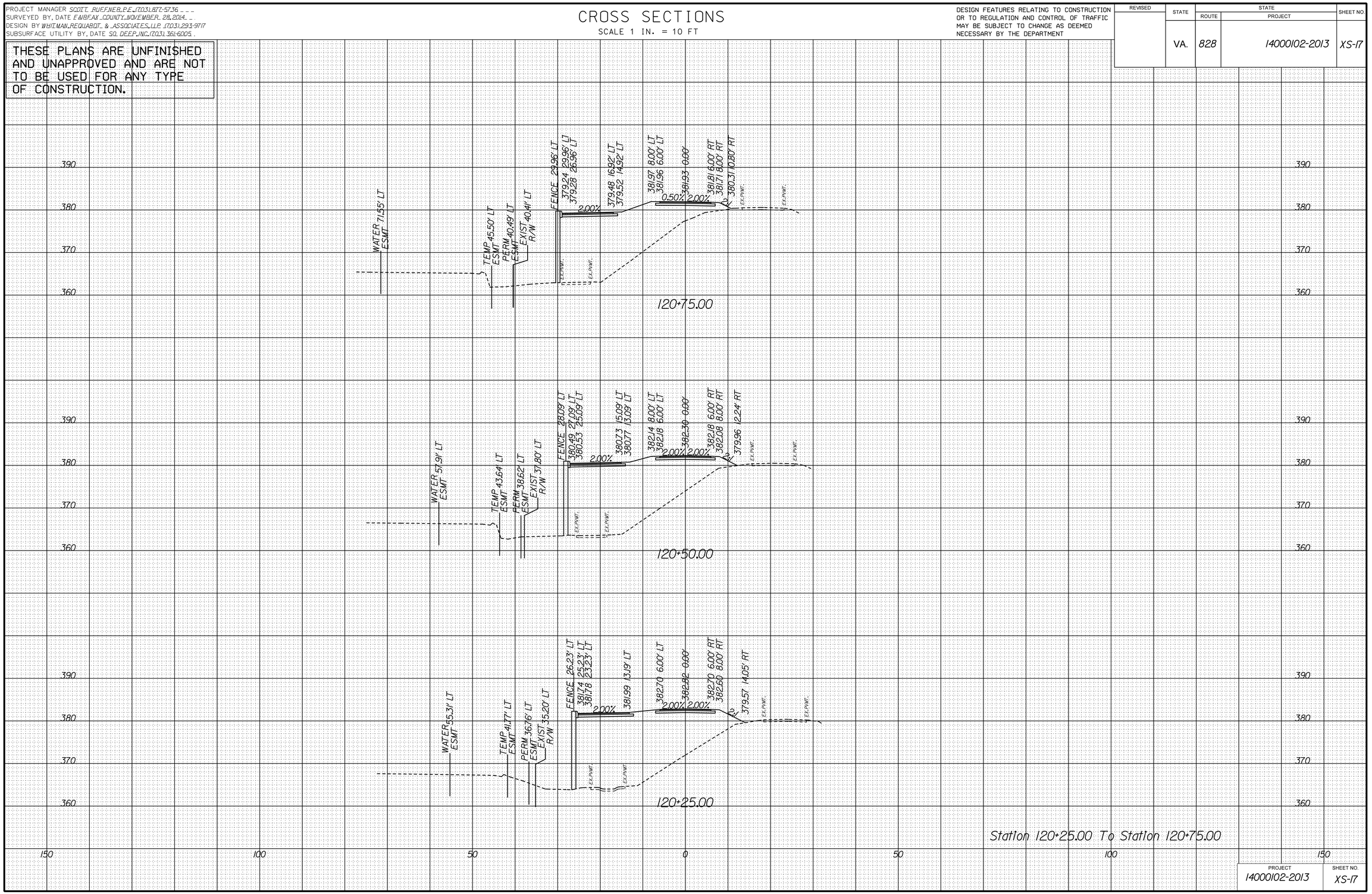
CROSS SECTIONS

SCALE 1 IN. = 10 FT

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-17



Station 120+25.00 To Station 120+75.00

PROJECT	SHEET NO.
14000102-2013	XS-17

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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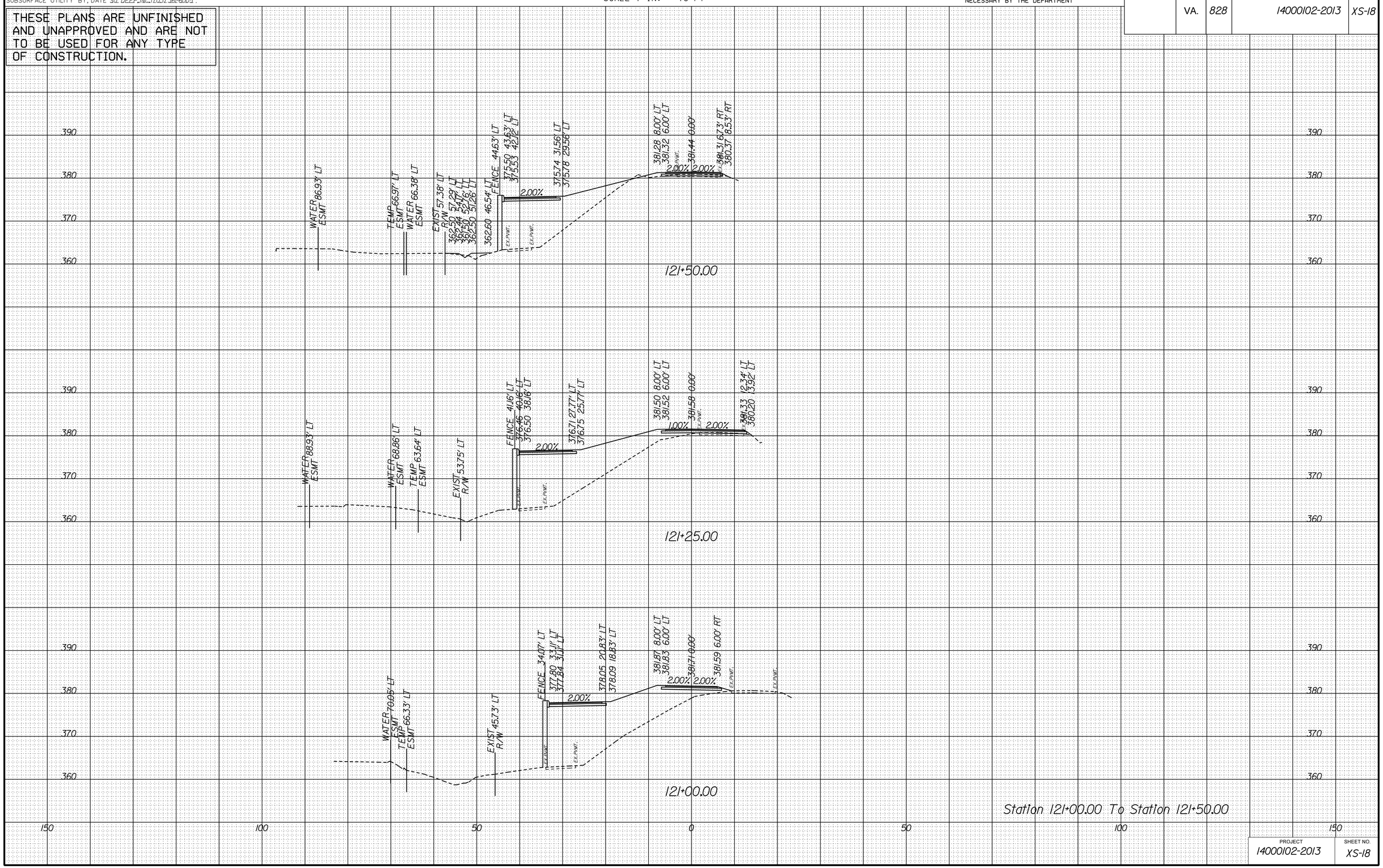
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-18



PROJECT	SHEET NO.
14000102-2013	XS-18

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703).877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703).293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703).161-6005

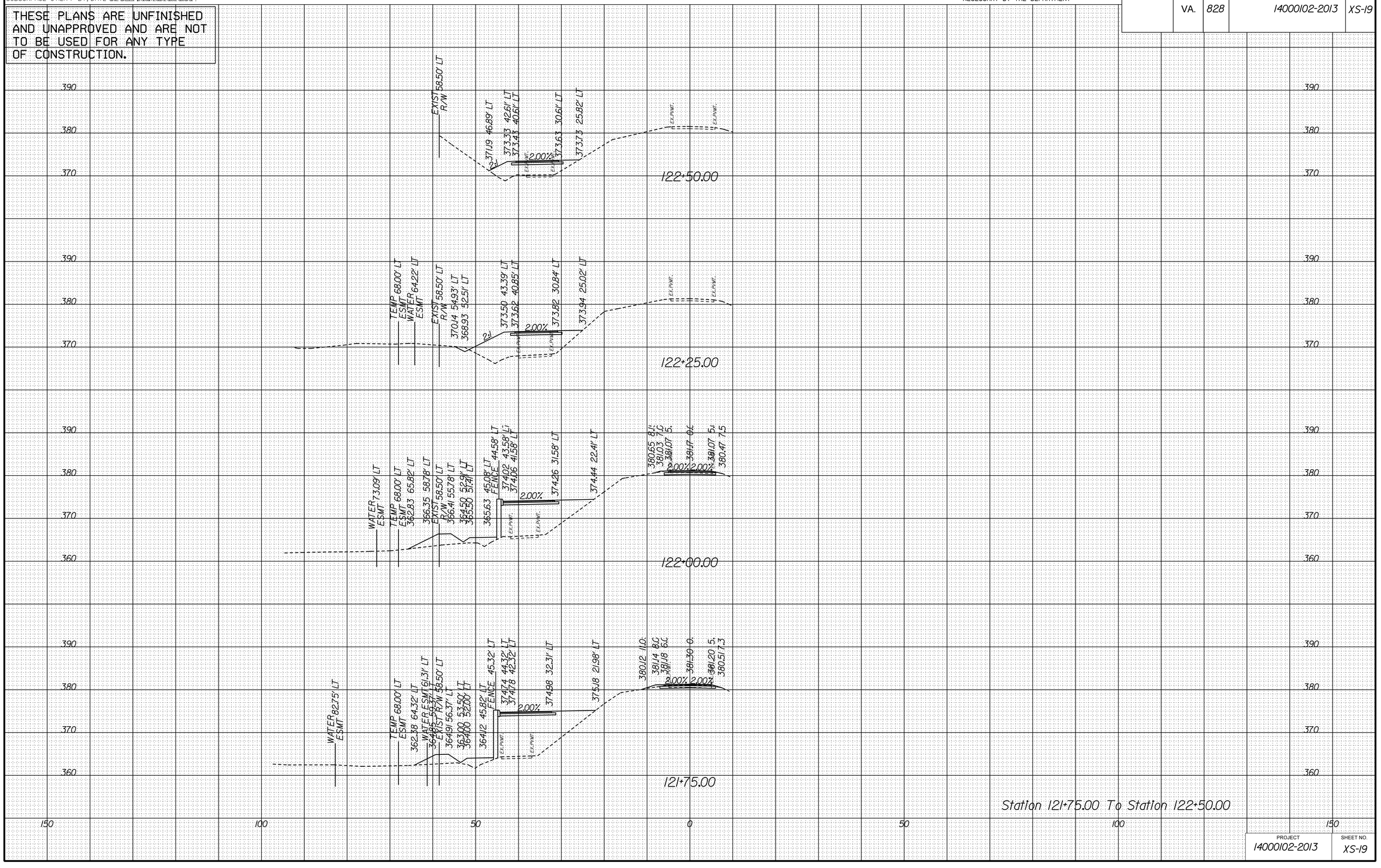
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-19

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



PROJECT	SHEET NO.
14000102-2013	XS-19

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

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CROSS SECTIONS

SCALE 1 IN. = 10 FT

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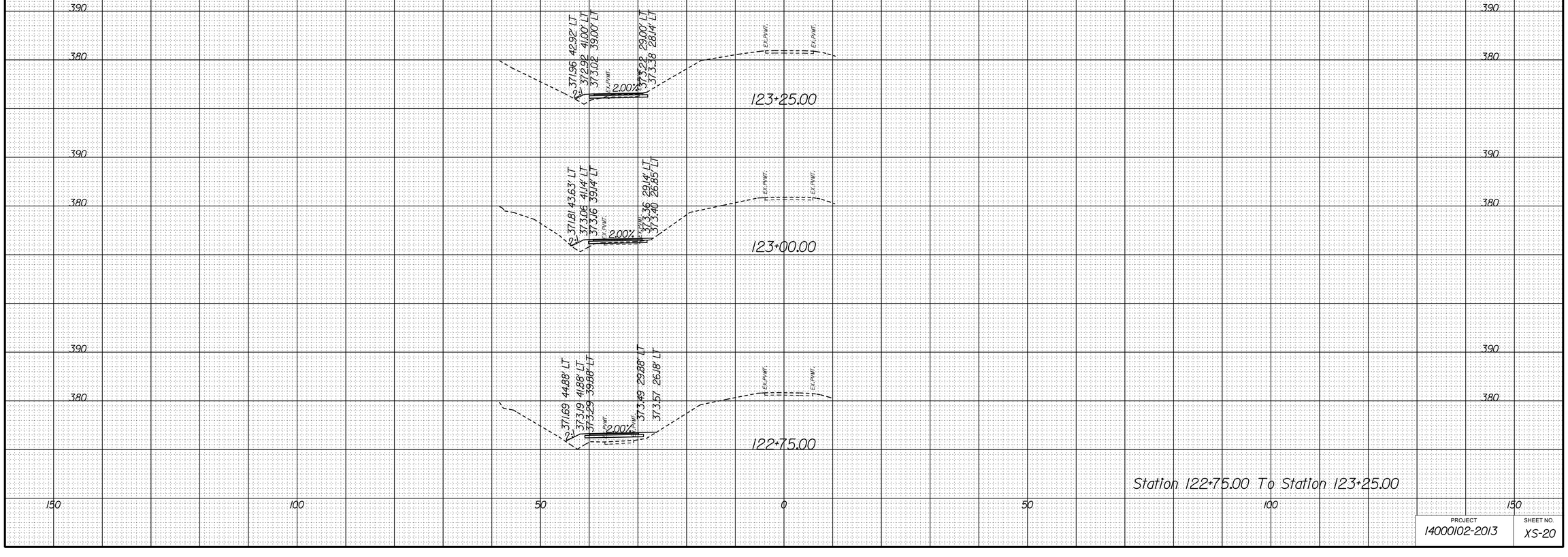
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-20



PROJECT	SHEET NO.
14000102-2013	XS-20

5/29/2018

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12:18 PM

PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
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CROSS SECTIONS

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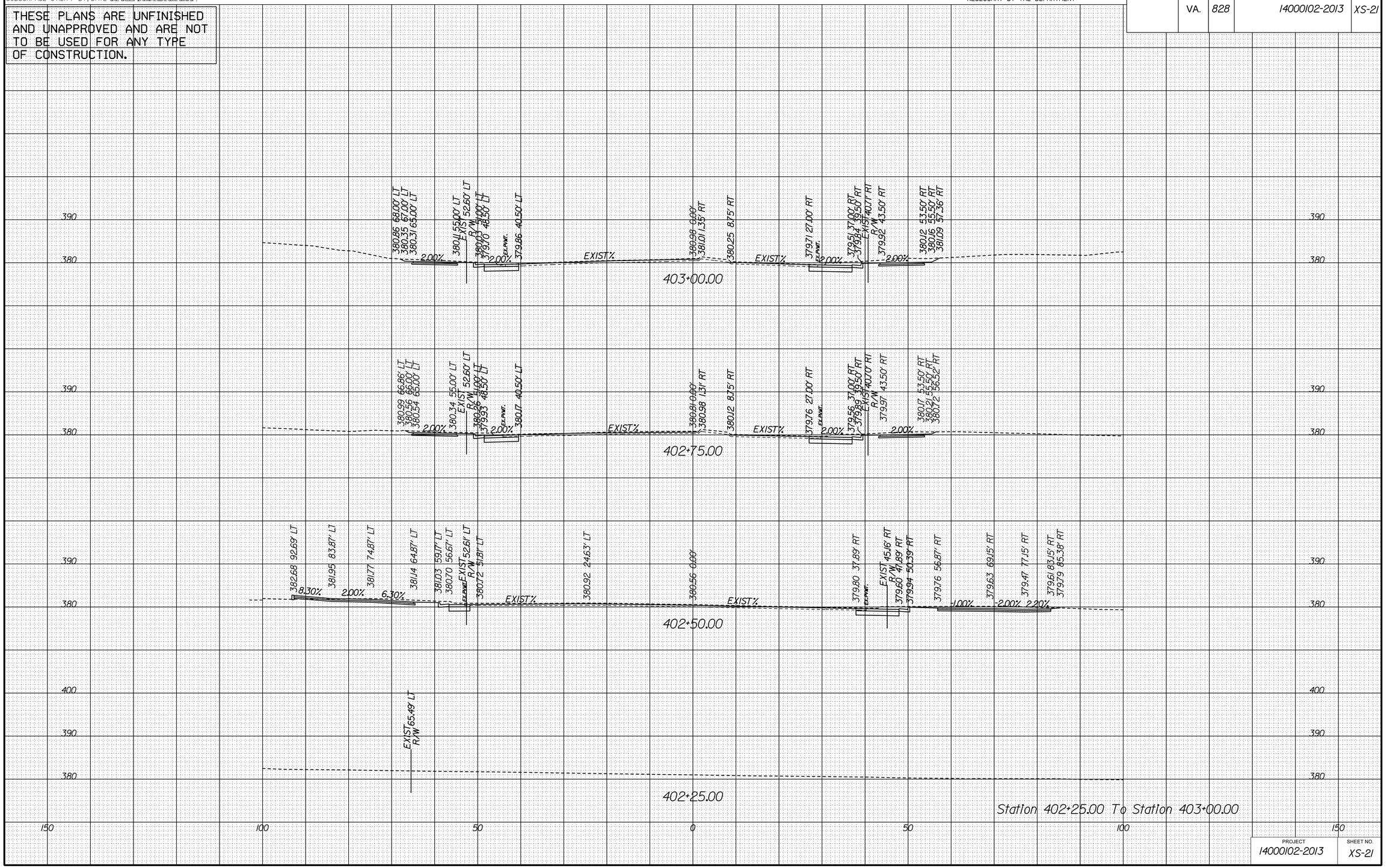
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-21



PROJECT	SHEET NO.
14000102-2013	XS-21

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703).877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703).293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703).361-6005

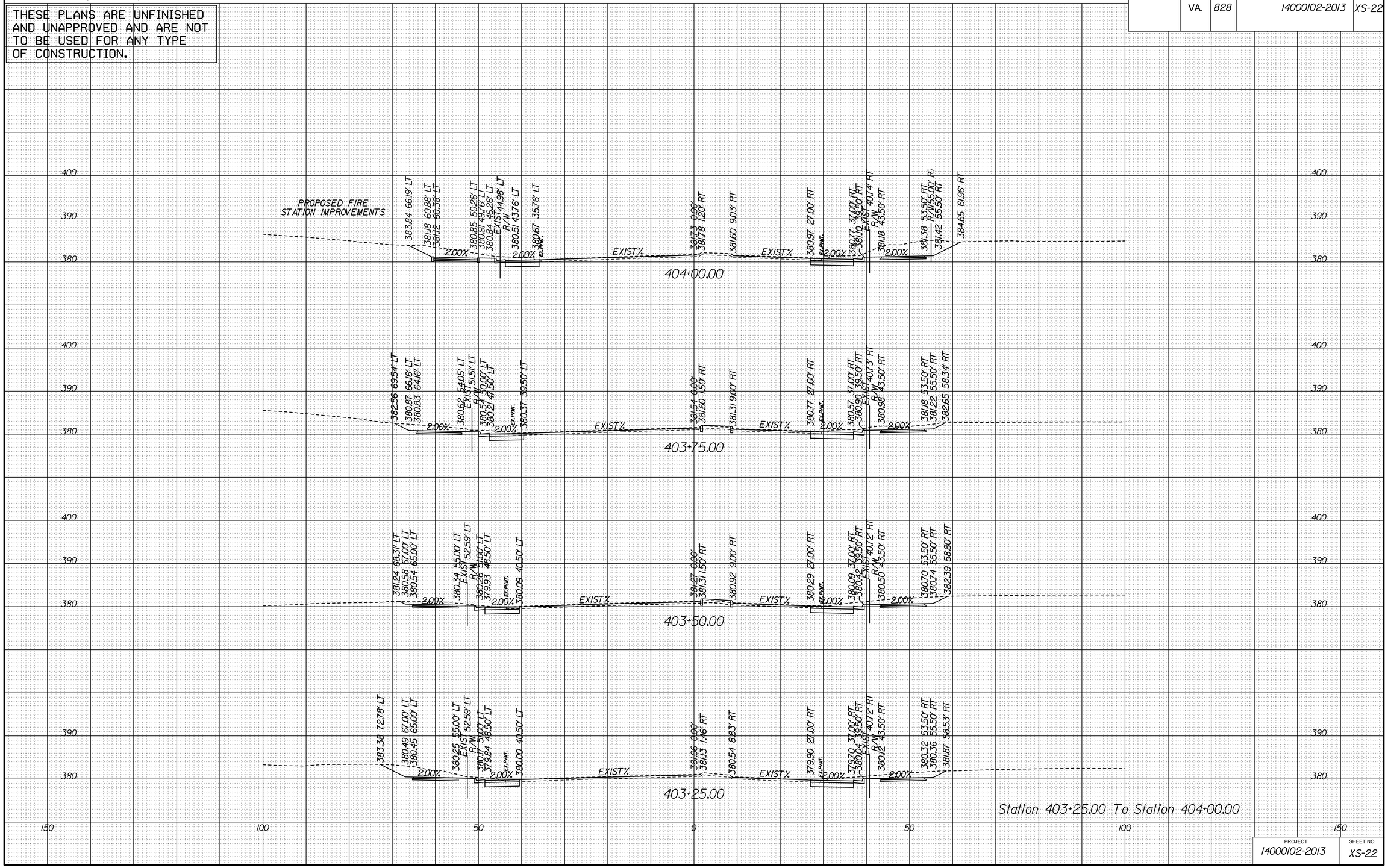
CROSS SECTIONS

SCALE 1 IN. = 10 FT

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-22

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



PROJECT	SHEET NO.
14000102-2013	XS-22

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
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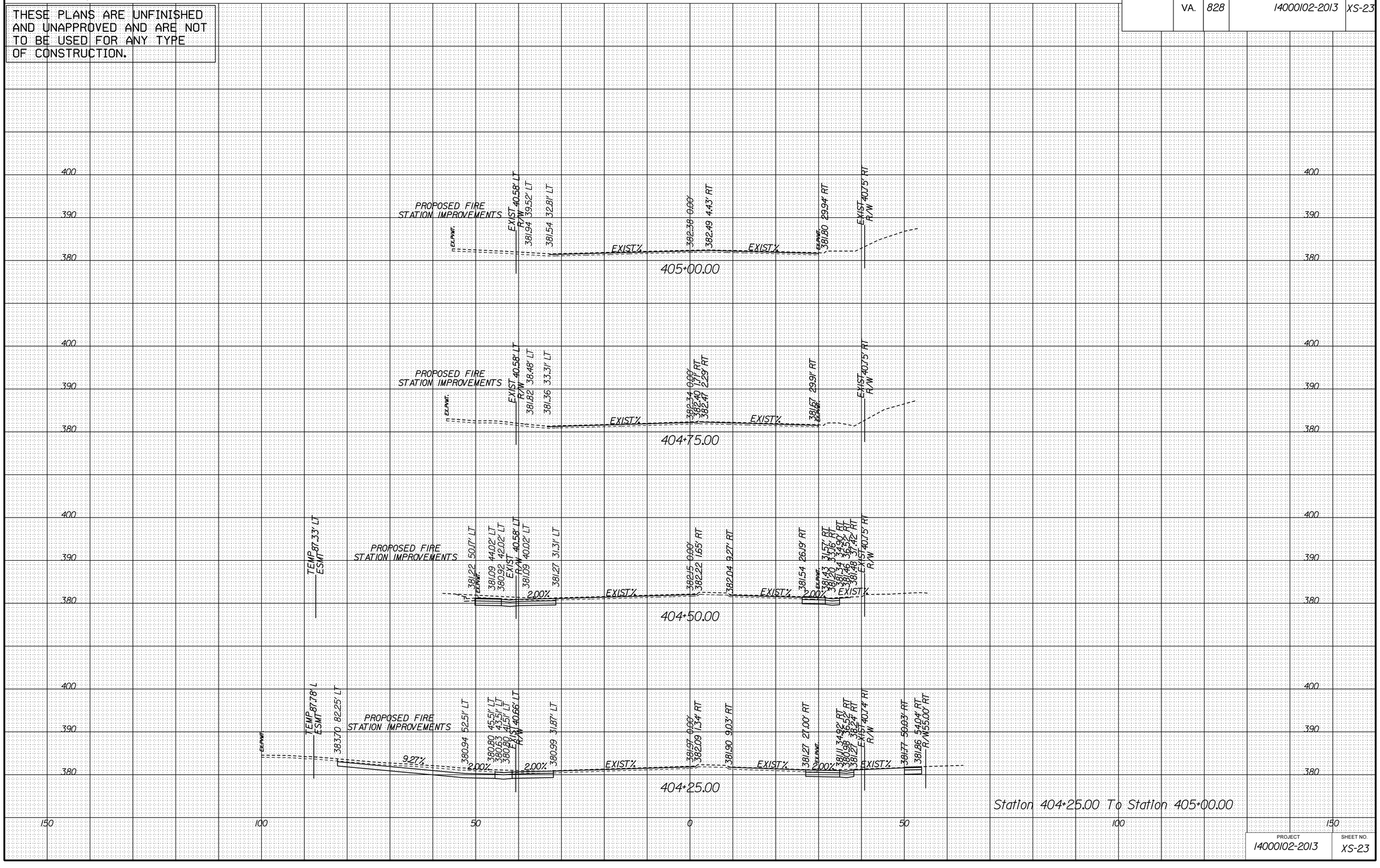
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	14000102-2013	XS-23



Station 404+25.00 To Station 405+00.00

PROJECT	SHEET NO.
14000102-2013	XS-23

5/29/2018

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PROJECT MANAGER SCOTT RUEFNER,P.E.,(703)877-5736
SURVEYED BY, DATE FAIRFAX COUNTY,NOVEMBER 28,2014
DESIGN BY WHITMAN,REQUARDT & ASSOCIATES,LLP (703)293-9717
SUBSURFACE UTILITY BY, DATE SO DEEP,INC.(703)361-6005

CROSS SECTIONS

SCALE 1 IN. = 10 FT

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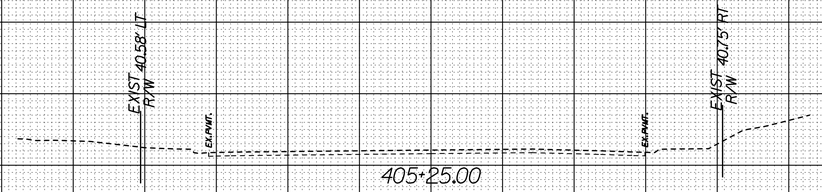
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	828	140001102-2013	XS-24

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION.



Station 405+25.00 To Station 405+25.00

PROJECT	SHEET NO.
140001102-2013	XS-24

5/29/2018