

ADDENDUM NO. 1

**MASON NECK TRAIL SEGMENT – 2B
CONTRACT NO. CN14307297
PROJECT NO. ST-000028-002
VDOT PROJECT NO. EN98-029-145, PE101,
PE102, RW-201,C503 PHASE 2B**

This Addendum consists of a total of **thirty-five (35)** pages including the attached drawings listed herein.

This Addendum is supplementary to the Contract Documents for **MASON NECK TRAIL SEGMENT – 2B**, Fairfax County, Virginia.

All changes, additions or deletions included herein as Addendum No. 1 shall become a part of the Contract Documents as if originally called for in the Drawings, Specifications and Form of Bid.

1. Advertisement for Bid:

ADVERTISEMENT FOR BID – PARAGRAPH NO. 4

DELETE: Bids will be received in the office of the Director, Utilities Design & Construction Division, Department of Public Works and Environmental Services, 12000 Government Center Parkway, Suite 463, Fairfax, Virginia until 11:00 a.m., prevailing local time, Tuesday, August 25, 2015. Bids received after that time will not be accepted. Bids will be opened publicly and read aloud at 11:05 a.m., Tuesday, August 25, 2015 in the Fourth Floor Conference Room, Suite 463, 12000 Government Center Parkway, Fairfax, Virginia 22035-0056.

ADD: Bids will be received in the office of the Director, Utilities Design & Construction Division, Department of Public Works and Environmental Services, 12000 Government Center Parkway, Suite 463, Fairfax, Virginia until **11:00 a.m.**, prevailing local time, **Thursday, September 10, 2015**. Bids received after that time will not be accepted. Bids will be opened publicly and read aloud **at 11:05 a.m., Thursday, September 10, 2015** in the Fourth Floor Conference Room, Suite 463, 12000 Government Center Parkway, Fairfax, Virginia 22035-0056.

2. REMOVE: Plan Sheets 4, 10A and 37

ADD: Plan Sheets 4, 10A and 37, Addendum No. 1

3. ADD: Fairfax Water Main Relocation Sheets 100-101, 14-22, 25, 112, Addendum No. 1

4. **ADD: Section E- Supplemental/Special Conditions, Pages E-199 through E-215, Addendum No. 1**

5. **RESPONSE TO BIDDER QUESTIONS:**

1. **Fairfax County is unable to provide CADD files for this project.**

Bidders are required to acknowledge receipt of all Addenda on Page B-2 of the Form of Bid, Section B. Failure to indicate receipt of any Addenda may be cause for rejection of Bid.

END ADDENDUM NO. 1

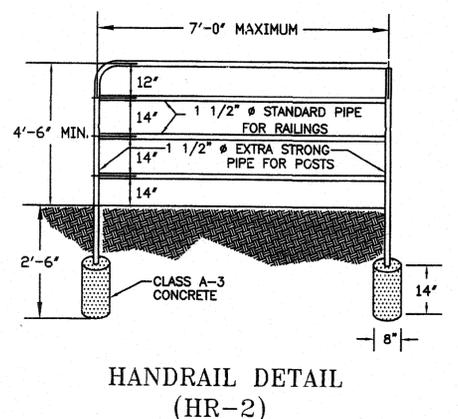
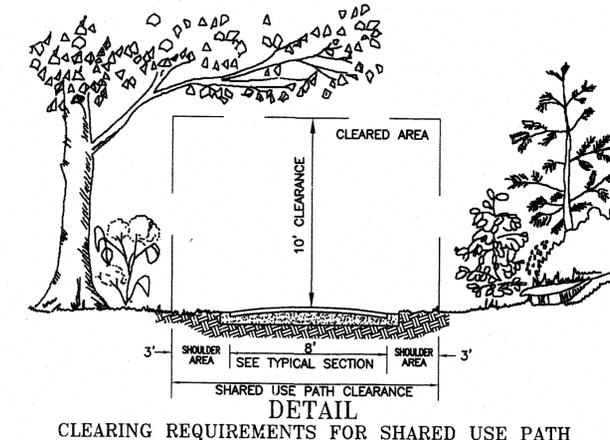
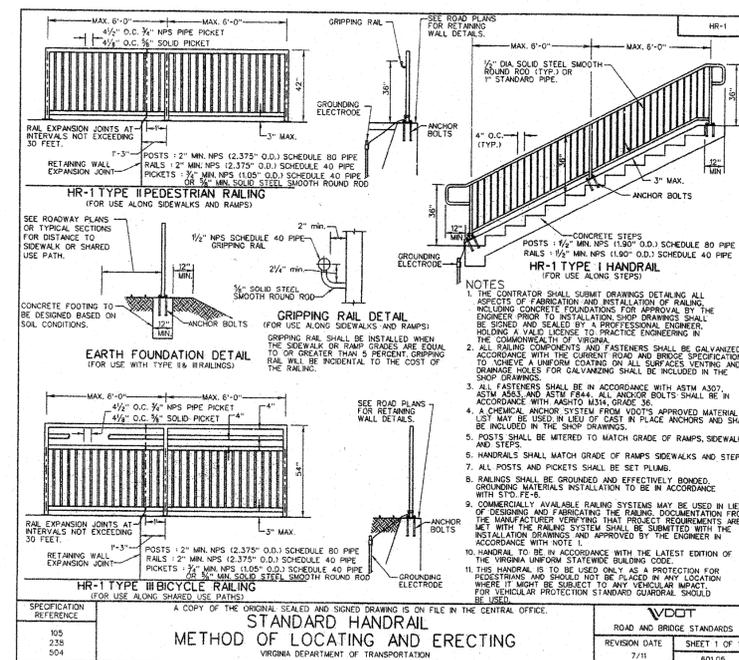
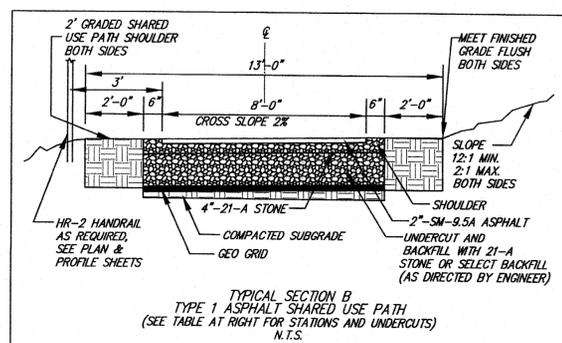
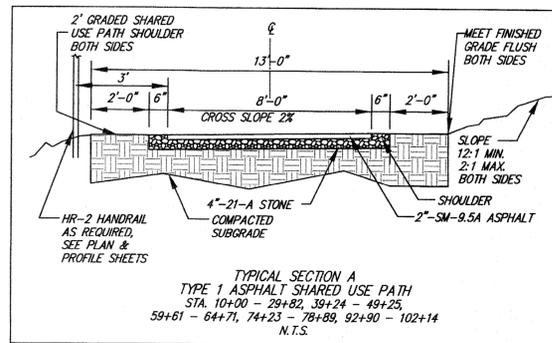
COUNTY OF FAIRFAX, VIRGINIA

By: _____ /s/ _____
Brad Melton, Director, Utilities Design & Construction Division
Department of Public Works and Environmental Services

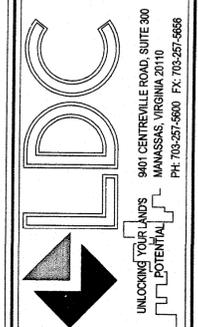
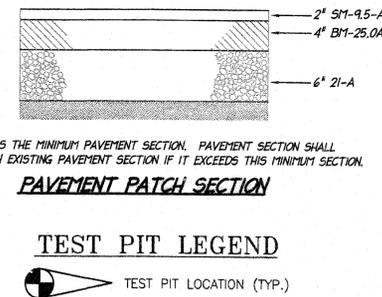
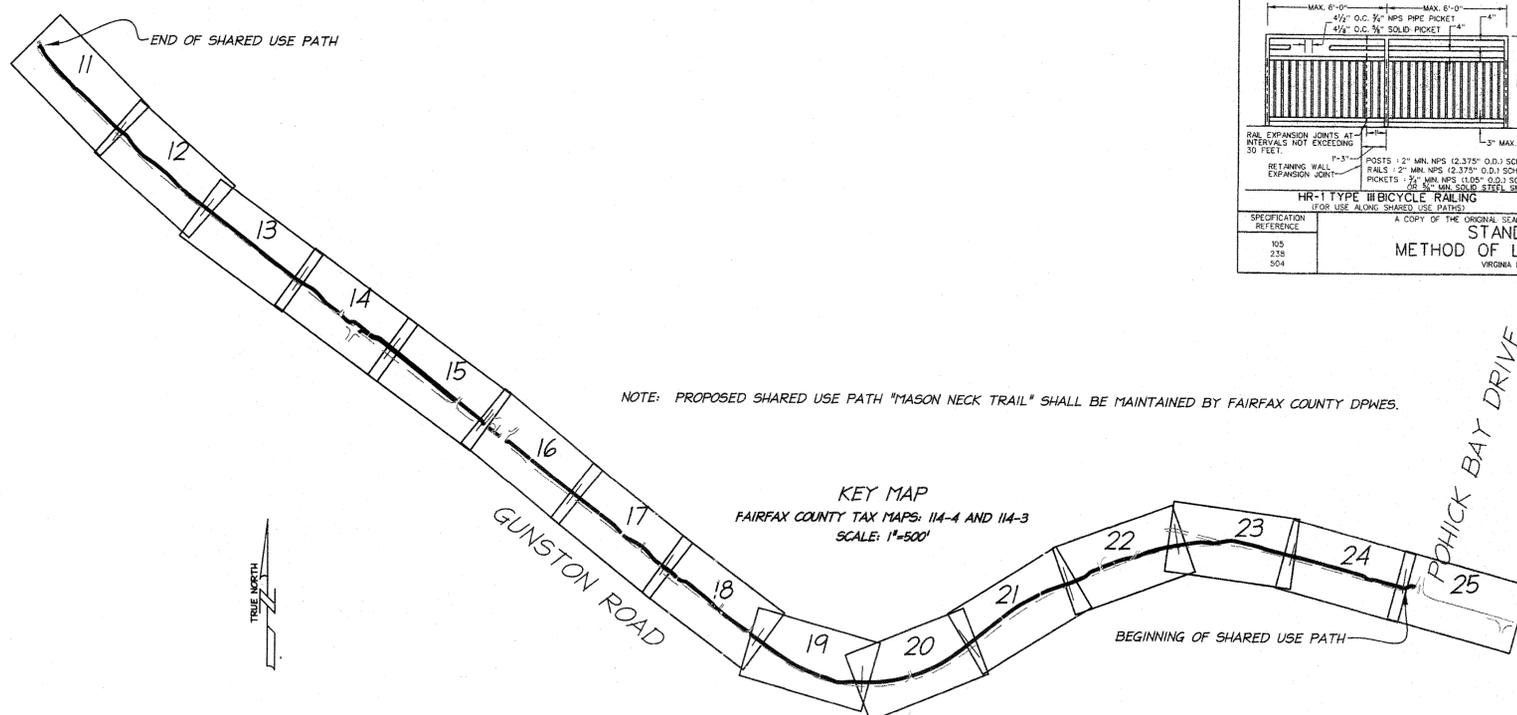
Dated: _____ 8/14/15 _____

ABBREVIATIONS FOR VARIOUS TREE TYPES

ALDER	AL	LAUREL	LA
APPLE (GENERAL)	A	LILAC	LI
ARBORVITAE	ARB	LOCUST (GENERAL)	L
ASH	AS	MAGNOLIA	MAG
ASPEN	ASP	MAPLE (GENERAL)	MP
AZALEA	AZ	MULBERRY	MUL
BAMBOO	BAM	OAK, WILLOW	WLO
BASSWOOD	BW	OAK, PIN	PO
BEECH (GENERAL)	BE	OAK (GENERAL)	O
BIRCH	B	OAK, WHITE	WO
BLACKHAWK	BH	PAWPAW	PAW
BLADDERNUT	BN	PERSIMMON	PER
BRUSH (UNDERGROWTH)	BR	PINE, SCOTCH	SP
BURNINGBUSH	BB	PINE, WHITE	WP
BUTTERNUT	BT	PINE (GENERAL)	PN
CEDAR (GENERAL)	C	PLUM	PL
CHERRY (GENERAL)	CH	POPLAR (GENERAL)	PCP
CHESTNUT	CN	POSSUMHAW	PH
COTTONWOOD	CW	RED MAPLE	RM
CRABAPPLE	CRAB	REDBUD	RB
DOGWOOD	ED	ROSE	RS
ELDERBERRY	EB	SASSAFRAS	SAS
ELM	ELM	SHRUB (GENERAL)	SH
EVERGREEN	EG	SILVER MAPLE	SILM
FIR (GENERAL)	FIR	SOURGUM	SG
FORSYTHIA	FOR	SOURWOOD	SW
FRINGETREE	FT	SPARKLEBERRY	SB
GUM	GUM	SPRUCE	S
HACKBERRY	HB	SUMAC	SUM
HEMLOCK (GENERAL)	HEM	SWEETGUM (GUM)	SGM
HERCULES-CLUB	HC	SYCAMORE	SYC
HICKORY	H	TULIPTREE	TT
HOLLY (GENERAL)	HOL	WALNUT (GENERAL)	WT
HOPTREE	HT	WILLOW, WEEPING	WW
HORNBEAM	HM	WILLOW, PUSSY	PW
IRONWOOD	IW	WITCH HAZEL	WH
JUNEBERRY	JB	YELLOW BUCKEYE	YBU
JUNIPER	JUN	YEW	Y



- NOTES
- HANDRAIL TO BE PRIMED WITH ONE (1) COAT OF KOPPERS 622 RUST PENETRATING PRIMER (OR APPROVED EQUAL), THEN PAINTED WITH TWO (2) COATS OF DURON NEW REthane MODIFIED BLACK (OR APPROVED EQUAL). PAINT TO BE APPLIED AT MIN. 1.5 MIL PER COAT.
 - ALL JOINTS TO BE WELDED. EXPOSED JOINTS SHALL BE FINISHED BY GRINDING OR FILING.
 - ALL HANDRAIL POSTS TO BE SET IN CLASS A-3 CONCRETE.
 - HANDRAIL MAY BE PAINTED, WELDED AND/OR ASSEMBLED IN THE FIELD OR IN THE SHOP. SPRAY PAINTING IN THE FIELD WILL NOT BE ALLOWED.
 - HANDRAIL MUST BE PLACED OUTSIDE THE GRADED SHOULDER OF THE TRAIL.



DETAILS
MASON NECK TRAIL
SEGMENT 2B

DATE	REVISION	APPROVED DATE

I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.

SHANE D. REVELLE
LIC. NO. 035323
5/12/10
PROFESSIONAL ENGINEER

SCALE: N/A

SHEET 4 OF 40

DATE: MARCH, 2010

DRAFT: MEP CHECK: SDR

FILE NUMBER: 99091-1-2-34

SIGN SCHEDULE

ALL SIGN DETAILS FOUND IN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)!!

TEXT NUMBER	SIGN TEXT	MUTCD CODE	SIGN SIZE	STATION & OFFSET
7,8		W11-15, W11-15P	(30"x30"), (24"x18")	±7+50, 4' OFF E.O.P.* ±10+00, 4' OFF E.O.P.* 12+50, 12' RIGHT
1		R1-1	(18"x18")	10+06, 8' LEFT 55+54, 8' RIGHT 55+82, 8' LEFT
2		R5-3	(24"x24")	10+12, 8' RIGHT
4,3,6	 	M4-14, D11-1, M6-3	(12"x6"), (24"x18"), (12"x4")	10+06, 8' RIGHT

11		W3-1	(18"x18")	11+00, 8' LEFT 107+50, 8' RIGHT 56+30, 8' LEFT
7,8,9	 	W11-15, W11-15P, W16-7p	(30"x30"), (24"x18"), (24"x12")	10+08, 14' RIGHT
10		R1-2	(18"x18"x18")	36+20, 8' RIGHT 36+44, 8' LEFT

*SEE NOTE ON PLAN VIEW

1. R1-1: WHITE LETTERING ON RED BACKGROUND

2. R5-3: BLACK LETTERING ON WHITE BACKGROUND

3. D11-1: WHITE LETTERING/SYMBOL ON GREEN BACKGROUND

4. M4-14: WHITE LETTERING ON GREEN BACKGROUND

5. W11-7: BLACK SYMBOL ON YELLOW BACKGROUND

6. M6-3: WHITE SYMBOL ON GREEN BACKGROUND

7. W11-15: BLACK LETTERING/SYMBOL ON FLUORESCENT YELLOW-GREEN BACKGROUND

8. W11-15P: BLACK LETTERING ON FLUORESCENT YELLOW-GREEN BACKGROUND

9. W16-7p: BLACK SYMBOL ON FLUORESCENT YELLOW-GREEN OR YELLOW BACKGROUND**

10. R1-2: RED LETTERING ON RED & WHITE BACKGROUND

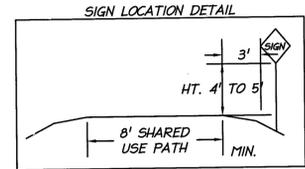
11. W3-1: RED AND BLACK SYMBOLS ON YELLOW BACKGROUND

12. W16-9p: BLACK LETTERING ON YELLOW BACKGROUND

** BACKGROUND COLOR OF SIGN W16-7P SHALL MATCH THE BACKGROUND COLOR OF SIGN THAT IT SUPPLEMENTS. **

SIGN NOTES:

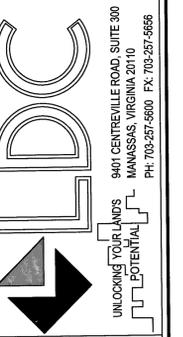
- LATERAL SIGN CLEARANCE SHALL BE A MINIMUM OF 3 FT AND A MAXIMUM OF 6 FT FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF THE SHARED USE PATH.
- MOUNTING HEIGHT FOR GROUND-MOUNTED SIGNS ON SHARED USE PATHS SHALL BE A MINIMUM OF 4 FT AND A MAXIMUM OF 5 FT, MEASURED FROM THE BOTTOM EDGE OF THE SIGN TO THE NEAR EDGE OF THE SHARED USE PATH SURFACE.
- REFER TO CHAPTER NINE OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- PROPOSED SIGNS ALONG GUNSTON ROAD AND POCHICK BAY DRIVE TO HAVE METAL BREAKAWAY POSTS IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS PCS-1 AND STP-1.
- PROPOSED PEDESTRIAN CROSSING SIGNS SHALL BE FLUORESCENT YELLOW-GREEN.



PAVEMENT MARKING NOTES:

- ALL PROPOSED PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF EACH OF THE FOLLOWING AND ANY REVISION THERETO:
 - MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - THE VIRGINIA SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. (MUTCD).
 - THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.
 - THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD BRIDGE STANDARDS.
- ANY EXISTING PAVEMENT MARKINGS WHICH WILL CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE COMPLETELY ERADICATED.
- THE CONTRACTOR WILL INSPECT THE EXISTING MARKINGS AND BE PREPARED TO MATCH MARKINGS MATERIALS IF SO DIRECTED BY VDOT. IF NOT DIRECTED TO DO SO, THE MATERIALS USED IN THIS PLAN WILL BE COMPLIED WITH.
- THE CONTRACTOR SHALL BE LICENSED IN THE COMMONWEALTH OF VIRGINIA TO APPLY THE MARKINGS MATERIALS. THE MARKINGS SHALL BE INSTALLED TO THE MANUFACTURER'S SPECIFICATIONS.

CN # 04307219



SIGN SCHEDULE AND DETAILS

MASON NECK TRAIL SEGMENT 2B

MOUNT VERNON DISTRICT
FAIRFAX COUNTY, VIRGINIA

DATE	DESIGN NO.	DESCRIPTION	REVISION APPROVED BY:	APPROVED DATE

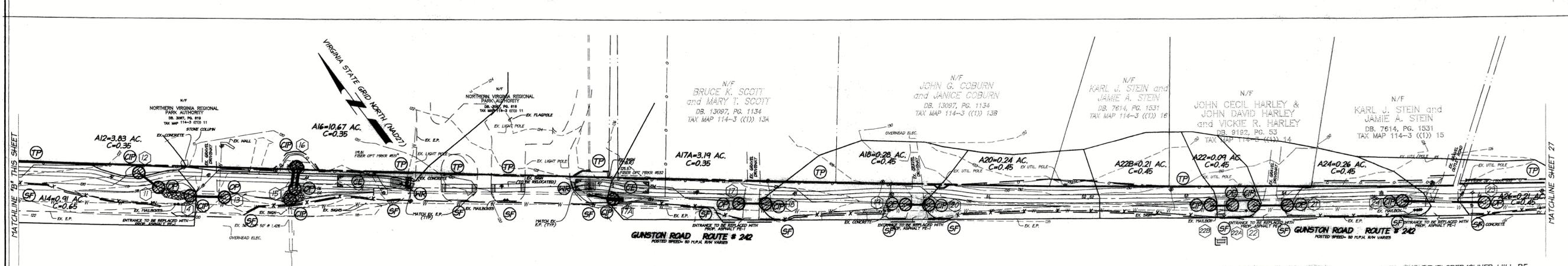
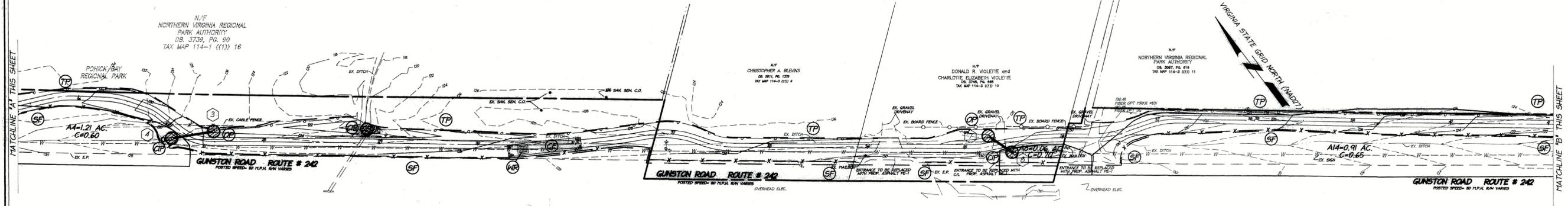
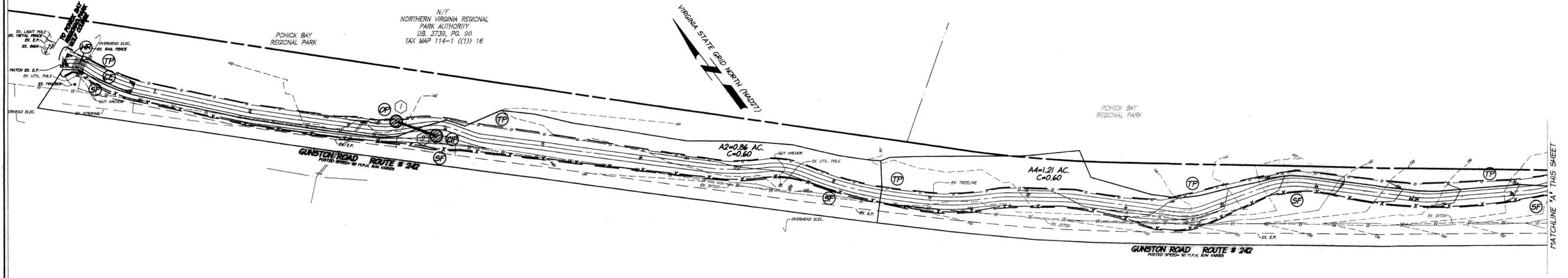
I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.



SCALE:
1" = 30'

SHEET 10A OF 40

DATE: MARCH, 2010
DRAFT: MEP CHECK: SDR
FILE NUMBER: 99091-1-2-34



GENERAL EROSION AND SEDIMENT CONTROL NOTES

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP OF CLEARING.

ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

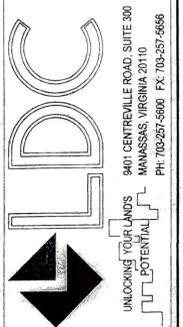
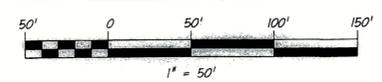
ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

USE COASTAL PLAIN SEEDING MIXTURE SPECIFICATIONS. PERMANENT SEEDING TO CONFORM TO STANDARDS & SPECIFICATIONS SECTION 3.32, VESCH.

NOTE: THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR COMPLIANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL LAW INCLUDING CERTIFICATION THAT ALL LAND DISTURBING ACTIVITIES WILL BE CARRIED OUT UNDER THE SUPERVISION OF A RESPONSIBLE LAND DISTURBER.

VIRGINIA UNIFORM CODING SYSTEM
for Erosion and Sediment Control Practices

NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE			LIMITS OF CLEARING AND GRADING		
3.05	SILT FENCE	SF		3.20	ROCK CHECK DAM	CD	
3.18	STORM DRAIN OUTLET PROTECTION	OP		3.38	TREE PROTECTION FENCE	TP	
3.08	CULVERT INLET PROTECTION	CIP			LIMITS OF SHARED USE PATH		
3.02	WASH RACK	WR					



EROSION AND SEDIMENT CONTROL

MASON NECK TRAIL SEGMENT 2B

MOUNT VERNON DISTRICT
FAIRFAX COUNTY, VIRGINIA

DATE	DESIGN NO.	REVISION APPROVED BY	REVISION APPROVED DATE

I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.



SCALE:
HORIZ.: 1" = 10'
VERT.: 1" = 5'

SHEET 37 OF 40

DATE: MARCH, 2010
DRAFT: CHECK: MEB SDR
FILE NUMBER: 09091-1-2-34

CN # 0430219

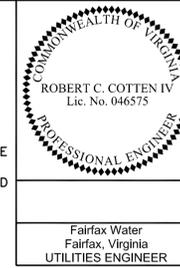
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

WATER MAIN CONSTRUCTION NOTES:

- 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:
 - EVIDENCE OF SATISFACTORY COMPLETION OF AT LEAST FIVE WATER MAIN INSTALLATION CONTRACTS SIMILAR IN QUANTITY AND COMPLEXITY, INCLUDING SUPERINTENDENT'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 SUPERINTENDENT SHALL HAVE AT LEAST 5 YEARS EXPERIENCE IN THE INSTALLATION OF WATER MAINS, AND SHALL HAVE BEEN IN CHARGE OF INSTALLING AT LEAST 10,000 LINEAR FEET OF DUCTILE PIPE.
 - 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 SUPERINTENDENT, 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.
- 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.
- NOTICE OR COMMUNICATION TO THE SUPERINTENDENT SHALL BE EQUIVALENT TO NOTICE OR COMMUNICATION TO THE CONTRACTOR. THE SUPERINTENDENT 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.
- 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.
- 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.
- 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.
- 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 THE DEPARTMENT.
- ALL PIPE ELEVATIONS SHOWN ARE TOP OF PIPE UNLESS OTHERWISE SPECIFIED ON THE PLAN.
- THE CONTRACTOR IS REFERRED TO THE FAIRFAX COUNTY DRAWINGS AND STANDARDS FOR THE LATEST ROAD AND DRAINAGE DESIGN INFORMATION.
- 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:
 - 8:00 A.M. TO 4:00 P.M. MONDAY THROUGH FRIDAY
MR. ANDY SCHREIBER, SUPERVISOR, ENGINEERING INSPECTION
8560 ARLINGTON BOULEVARD
FAIRFAX, VA 22031
TELEPHONE NO. (703) 289-6350
CELL PHONE NO. (571) 722-7632
 - NIGHT, WEEKENDS AND HOLIDAYS
DISPATCHER
TELEPHONE NO. (703) 289-6395 OR (703) 289-6323
- THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY EXISTING WATER SYSTEM VALVES WITHOUT A FAIRFAX WATER INSPECTOR OVERSEEING THE WORK.
- THE WORKING PRESSURE OF THE EXISTING WATER SYSTEM IS APPROXIMATELY 95 PSI.
- FAIRFAX WATER INSPECTOR WILL RECORD "AS BUILT" CONDITIONS FOR THE GENERAL WATER MAIN CONSTRUCTION.
- 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.
- ALL WATER MAIN INSTALLATION SHALL BE IN CONFORMANCE WITH FAIRFAX WATER'S STANDARD DETAILS INCLUDED HEREIN AND FOUND AT FAIRFAX WATER'S WEBSITE AT WWW.FAIRFAXWATER.ORG.
- 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, VA. 22031
MR. JERRY SCOTT, P.E.
CHIEF CONSTRUCTION ENGINEER
- 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.
- 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.
- 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.
- 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 0.5 NOT EXCEED SD(P) /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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- FIELD APPLIED DIELECTRIC COATING OR PETROLATUM TAPE TO BE APPLIED TO:
 - BURIED MECHANICAL JOINTS, BOLTS, NUTS, COUPLINGS, HARNESS TIE RODS, SADDLES, IRON AND STEEL ANCHORS, AND OTHER BURIED CONNECTING HARDWARE.
 - PIPE EMBEDDED IN CONCRETE ANCHOR BLOCKS OR OTHERWISE IN CONTACT WITH CONCRETE, EXTENDING THROUGH CONCRETE AND ADJACENT 6 INCHES IN BOTH DIRECTIONS.
 - SERVICE CLAMPS, NON-MOVING PARTS OF CORPORATION STOPS AND OTHER TRANSITION FITTINGS BETWEEN COPPER SERVICES AND DUCTILE IRON PIPE.
- 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.
- ANY SOUND BARRIER CONSTRUCTION, INCLUDING FOOTINGS, WITHIN 15 FEET OF THE EXISTING OR PROPOSED WATER MAINS SHALL BE REVIEWED FOR APPROVAL BY FAIRFAX WATER.
- INSTALL IDENTIFICATION TAPE DURING BACKFILL OPERATIONS ONE FOOT ABOVE WATER MAIN PIPING FOR ALL RESTRAINED PIPE JOINTS.
- 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.
- PROPOSED WATER MAINS AND SERVICES MUST BE IN SERVICE BEFORE EXISTING WATER MAINS AND SERVICES ARE ABANDONED.
- 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.
- IN INSTANCES WHERE FAIRFAX COUNTY AND FAIRFAX WATER SPECIFICATIONS OVERLAP OR ADDRESS THE SAME ISSUES, THE MORE STRINGENT SPECIFICATIONS SHALL BE ADHERED TO.
- ALL ABANDONED VALVES AND APPURTENANCES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSAL/REMOVAL OF SUCH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 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.
- THE CONTRACTOR SHALL INSTALL 1 LAYER OF 4-MIL CROSS-LAMINATED POLYETHYLENE ENCASEMENT FOR WATER MAINS LESS THAN 24-INCH IN DIAMETER (2 LAYERS FOR WATER MAINS 24-INCH AND GREATER IN DIAMETER) AS SHOWN ON THE DRAWINGS AND STANDARD DETAILS.
- ALL EXISTING AND NEW VALVE BOXES MUST BE FULLY ADJUSTED TO CONFORM TO FINAL ASPHALT GRADE. NO PAVING ADJUSTERS WILL BE PERMITTED.
- 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 LAND FILL SITE FOR THE CONCENTRATION LEVELS ENCOUNTERED. THE CONTRACTOR SHALL INSTALL 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.
- 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.

FAIRFAX WATER WATER MAIN RELOCATIONS FAIRFAX WATER PROJECT 2428 DIVISION 1B



Fairfax Water
Fairfax, Virginia
UTILITIES ENGINEER

REVISED	FHWA REGION	STATE	FEDERAL AID		STATE		SHEET NO.
			ROUTE	PROJECT	ROUTE	PROJECT	
	1-4	VA.			242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	100

INDEX OF SHEETS

FAIRFAX WATER SHEET NO.	FAIRFAX COUNTY SHEET NO.	GENERAL DESCRIPTION
100	-	WATER MAIN CONSTRUCTION NOTES, LEGEND, AND INDEX OF SHEETS
101	-	PAY ITEM NOTES AND SUMMARY OF QUANTITIES
102	14	PLAN - TEST STATION AND BOLLARD RELOCATION ADJUST EXIST. HYDRANT & VALVE BOXES
103	15	PLAN - SERVICE LINE ADJUSTMENT
104	16	PLAN - ADJUST VALVE BOXES METER BOX & SERVICE LINE RELOCATION
105	17	PLAN - ADJUST VALVE BOX HYDRANT, METER BOX & SERVICE LINE RELOCATION
106	18	PLAN - NO FAIRFAX WATER WORK REQUIRED
107	19	PLAN - METER BOX & SERVICE LINE RELOCATION
108	20	PLAN - ADJUST VALVE BOXES METER BOX & SERVICE LINE RELOCATION
109	21	PLAN - ADJUST TEST STATION AND BOLLARD
110	22	PLAN - HYDRANT RELOCATION & VALVE BOX ADJUSTMENT
111	25	PLAN - NO FAIRFAX WATER WORK REQUIRED
112	-	DETAILS

LEGEND

	EXISTING	PROPOSED
WATER MAIN	---W---W---W---	=====
2" AIR RELEASE VALVE & BOX	---W---(A)---W---W---	=====
2" BLOW OFF VALVE & BOX	---W---W---W---W---(B)	=====
WATER VALVE & BOX	⊗	⊗
REDUCER	▷	▷
WATER METER & BOX	⊞	⊞
FIRE HYDRANT	⊙	⊙
DIP	DUCTILE IRON PIPE	
CIP	CAST IRON PIPE	
WATER MAIN TO BE ABANDONED OR REMOVED	///	///
WATER MAIN PREVIOUSLY ABANDONED	###	###
TYPE FD - STANDARD TEST STATION	■ (FD)	■ (FD)
TYPE CS - STANDARD TEST STATION	■ (CS)	■ (CS)

NOTE:

ALL OTHER COUNTY PLAN SHEETS (NOT INCLUDED IN THIS PLAN SET) DO NOT REQUIRE FAIRFAX WATER ADJUSTMENTS.

FAIRFAX WATER ADJUSTMENTS

MASON NECK TRAIL, SEGMENT 2B
WATER MAIN RELOCATIONS

FAIRFAX WATER PROJECT 2428 DIVISION 1B
FAIRFAX COUNTY PROJECT ST-000028-002

TAX MAP 114-3 & 114-4

FAIRFAX COUNTY, VIRGINIA

PREPARED BY

FAIRFAX WATER
8560 ARLINGTON BOULEVARD
FAIRFAX, VIRGINIA 22031

OFFICE (703) 289-6300 FAX (703) 289-6398

DATE: JUNE, 2014

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
	ST-000028-002 FUND #: 300-C30060		100

Addendum No. 1

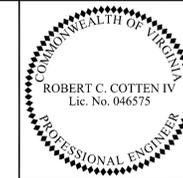
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

DATE: _____
BY: _____
PLAN NO. _____
NOTE BOOK NO. _____

USER: FAIRFAX WATER
DATE: JUNE, 2014
J:\DESIGN\JOBS\2428-1B\DWG\SHEET 100.DWG

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

**FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B**



Fairfax Water
Fairfax, Virginia
UTILITIES ENGINEER

REVISED	FHWA REGION	STATE	FEDERAL AID		STATE		SHEET NO.
			ROUTE	PROJECT	ROUTE	PROJECT	
	1-4	VA.			242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	101

WATER MAIN SUMMARY

SHEET NUMBER	ADJUST EXIST. VALVE BOX	FIRE HYDRANT	ADJUST EXIST. FIRE HYDRANT	RELOCATE EXIST. WATER METER & BOX	WATER SERVICE LINE	RELOCATE EXIST. TEST STATION	ADJUST EXIST. TEST STATION	SHEET NUMBER
SIZE	N/A	N/A	N/A	N/A	1"	N/A	N/A	SIZE
UNIT	EA.	EA.	EA.	EA.	L.F.	EA.	EA.	UNIT
102	3	-	1	-	-	1	-	102
103	-	-	-	-	20	-	-	103
104	3	-	-	1	35	-	-	104
105	1	1	-	1	60	-	-	105
106	-	-	-	-	-	-	-	106
107	-	-	-	1	20	-	-	107
108	2	-	-	1	40	-	-	108
109	-	-	-	-	-	-	1	109
110	2	1	-	-	-	-	-	110
111	-	-	-	-	-	-	-	111
TOTAL	11	2	1	4	175	1	1	TOTAL

MEASUREMENT AND PAYMENT

- ADJUST EXIST. VALVE BOX: INCLUDED IN THE BID PRICE FOR ADJUSTING EXISTING VALVE BOXES SHALL BE ANY WORK OR MATERIAL REQUIRED TO BRING THE VALVE BOX AND OPERATING NUT TO PROPOSED GRADE AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK. NO PAVING ADJUSTERS WILL BE PERMITTED, INCLUDING EXISTING PAVING ADJUSTERS.
- FIRE HYDRANT: FIRE HYDRANTS, BLOW-OFF HYDRANTS AND AIR RELEASE HYDRANTS 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; THRUST RESTRAINT; AND ALL OTHER MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK, AS INDICATED IN THE RESPECTIVE HYDRANT DETAILS ON THE PLANS. THE BID PRICE FOR THE INSTALLATION OF PROPOSED HYDRANT SHALL BE FULL COMPENSATION FOR REMOVING EXISTING HYDRANT, VALVE AND PLUGGING EXISTING TEE AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK (INCLUDING RESTRAINING EXISTING HYDRANT VALVE OR TEST HOLE TO DETERMINE IF EXISTING HYDRANT VALVE IS RESTRAINED) IN ACCORDANCE WITH THE FIRE HYDRANT DETAIL IN THE PLANS. THE CONTRACTOR SHALL DISPOSE OF EXISTING HYDRANTS.
- ADJUST EXISTING FIRE HYDRANT: INCLUDED IN THE BID PRICE FOR ADJUSTING EXISTING FIRE HYDRANTS SHALL BE ANY WORK OR MATERIAL REQUIRED TO BRING THE HYDRANT TO PROPOSED GRADE AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE FIRE HYDRANT DETAIL IN THE PLANS.
- RELOCATE EXIST. WATER METER AND BOX: RELOCATE EXIST. WATER METER & BOX WILL BE MEASURED IN UNITS OF EACH COMPLETE IN PLACE AND PAID FOR AT THE CONTRACT UNIT PRICE, WHICH PRICE SHALL BE FULL COMPENSATION FOR SERVICE TAP, DIELECTRIC COATING, INSULATED UNION AND COPPER, FURNISHING AND INSTALLING A NEW WATER METER YOKE, BOX AND LID, MISCELLANEOUS ITEMS, RELOCATING EXISTING METER, AND EXCAVATING AND BACKFILLING WITH SUITABLE MATERIALS, AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK AND IN ACCORDANCE WITH THE SERVICE CONNECTION DETAIL ON THE PLANS.
- WATER SERVICE LINE: WATER SERVICE LINE WILL BE MEASURED IN UNITS OF LINEAR FEET, COMPLETE IN PLACE, AND PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT FOR THE RESPECTIVE SIZE OF PIPING AND WILL INCLUDE EXCAVATING, COMPACTING AND BACKFILLING.
- RELOCATE EXISTING TEST STATION: INCLUDED IN THE BID PRICE FOR RELOCATING EXISTING TEST STATIONS SHALL BE ANY WORK OR MATERIAL REQUIRED TO RELOCATE THE EXISTING TEST STATION BOX, TERMINAL BOARD, AND ASSOCIATED WIRING AS SHOWN IN THE PLANS AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE TEST STATION DETAIL IN THE PLANS.
- ADJUST EXISTING TEST STATION: INCLUDED IN THE BID PRICE FOR ADJUSTING EXISTING TEST STATIONS SHALL BE ANY WORK OR MATERIAL REQUIRED TO BRING THE EXISTING TEST STATION BOX, TERMINAL BOARD, AND ASSOCIATED WIRING TO PROPOSED GRADE AND ALL INCIDENTALS NECESSARY TO COMPLETE THE WORK IN ACCORDANCE WITH THE TEST STATION DETAIL IN THE PLANS.

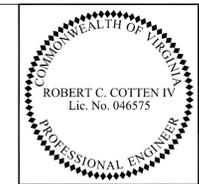
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

PLAN NOTE BOOK No.	DATE	BY

USER: FAIRFAX WATER
DATE: JUNE, 2014
J:\DESIGN\JOBS\2428-1B\DWG\SHEET-101.DWG

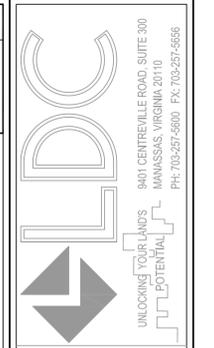
PLAN NO.	PROJECT	FILE NO.	SHEET NO.
	ST-000028-002 FUND #: 300-C30060		101

**FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B**



REVISED	FHWA REGION	STATE	FEDERAL AID ROUTE	PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	1-4	VA.			242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	103

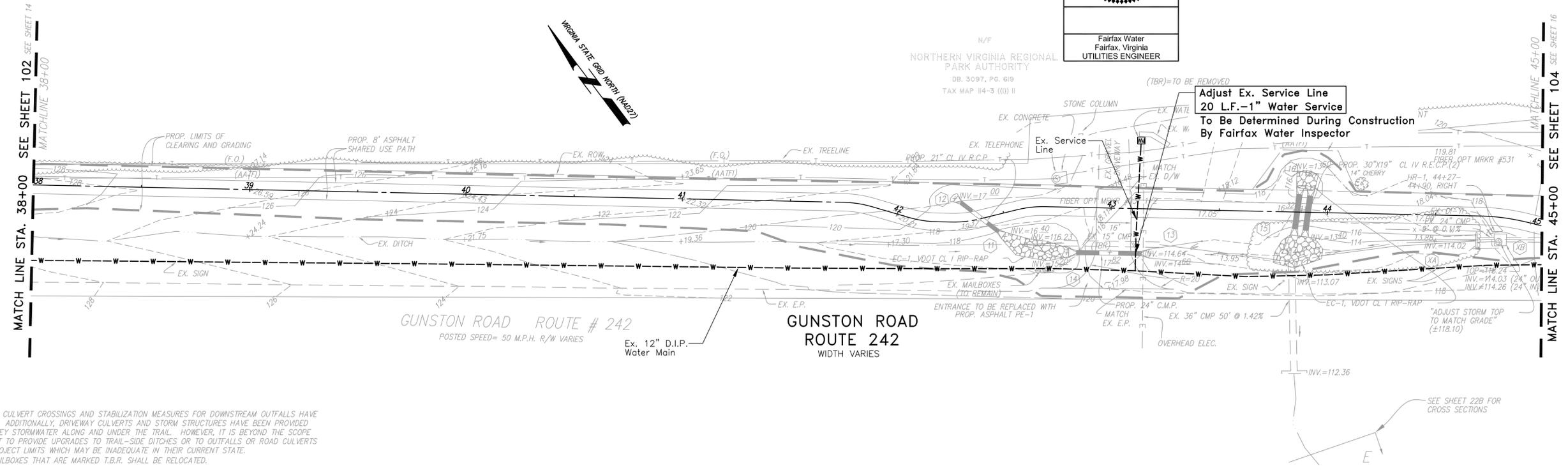
Fairfax Water
Fairfax, Virginia
UTILITIES ENGINEER



PLAN AND
PROFILE

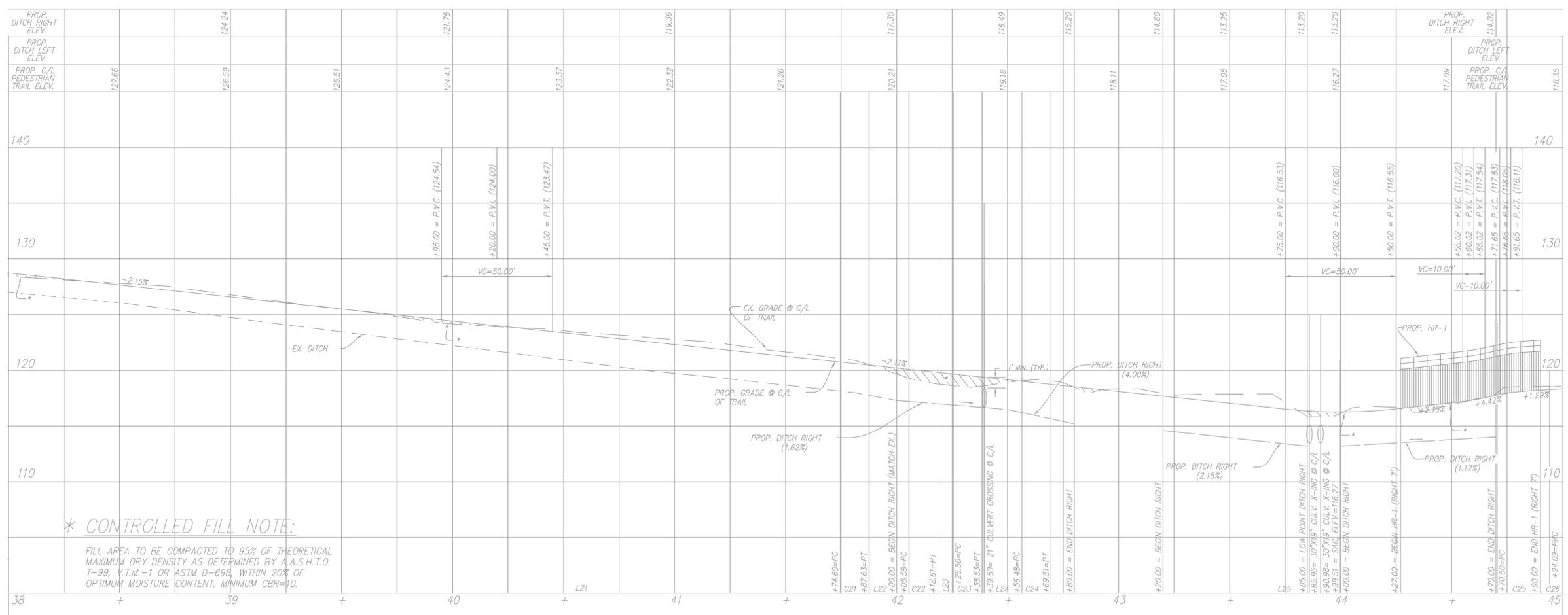
MASON NECK TRAIL
SEGMENT 2B

MOUNT VERNON DISTRICT
FAIRFAX COUNTY, VIRGINIA



- NOTES:
- ADEQUATE TRAIL CULVERT CROSSINGS AND STABILIZATION MEASURES FOR DOWNSTREAM OUTFALLS HAVE BEEN PROVIDED. ADDITIONALLY, DRIVEWAY CULVERTS AND STORM STRUCTURES HAVE BEEN PROVIDED TO BETTER CONVEY STORMWATER ALONG AND UNDER THE TRAIL. HOWEVER, IT IS BEYOND THE SCOPE OF THIS PROJECT TO PROVIDE UPGRADES TO TRAIL-SIDE DITCHES OR TO OUTFALLS OR ROAD CULVERTS BEYOND OUR PROJECT LIMITS WHICH MAY BE INADEQUATE IN THEIR CURRENT STATE.
 - ALL EXISTING MAILBOXES THAT ARE MARKED T.B.R. SHALL BE RELOCATED.

FOR FAIRFAX WATER ADJUSTMENTS ONLY

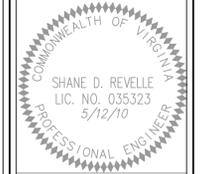


* CONTROLLED FILL NOTE:

FILL AREA TO BE COMPACTED TO 95% OF THEORETICAL MAXIMUM DRY DENSITY AS DETERMINED BY A.A.S.H.T.O. T-99, V.T.M.-1 OR ASTM D-698, WITHIN 20% OF OPTIMUM MOISTURE CONTENT. MINIMUM CBR=10.

DATE	DESIGN	NO.	DESCRIPTION	REVISION APPROVED BY:

I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.

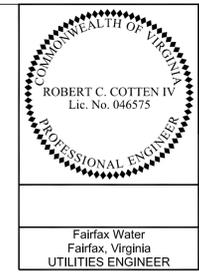


SCALE:
HORIZ.: 1"=25'
VERT.: 1"=5'

SHEET 15 OF 40
DATE: MARCH, 2010
DRAFT: MEP CHECK: SDR
FILE NUMBER: 99091-1-2-34

CN # 04307219

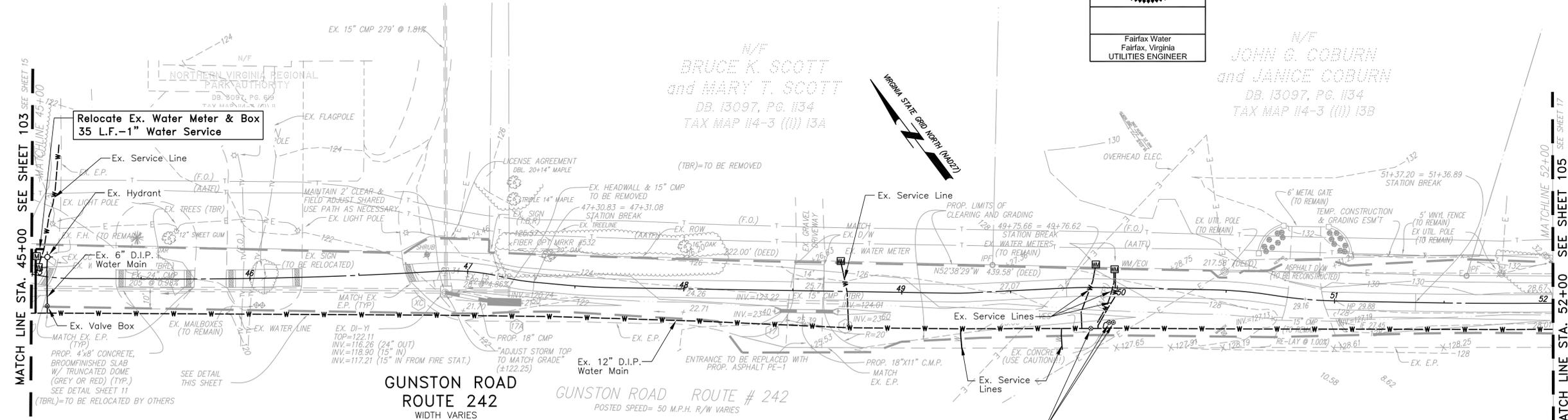
**FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B**



REVISED	FHA REGION	STATE	FEDERAL AID		STATE		SHEET NO.
	1-4	VA.	ROUTE	PROJECT	ROUTE	PROJECT	
					242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	104

Fairfax Water
Fairfax, Virginia
UTILITIES ENGINEER

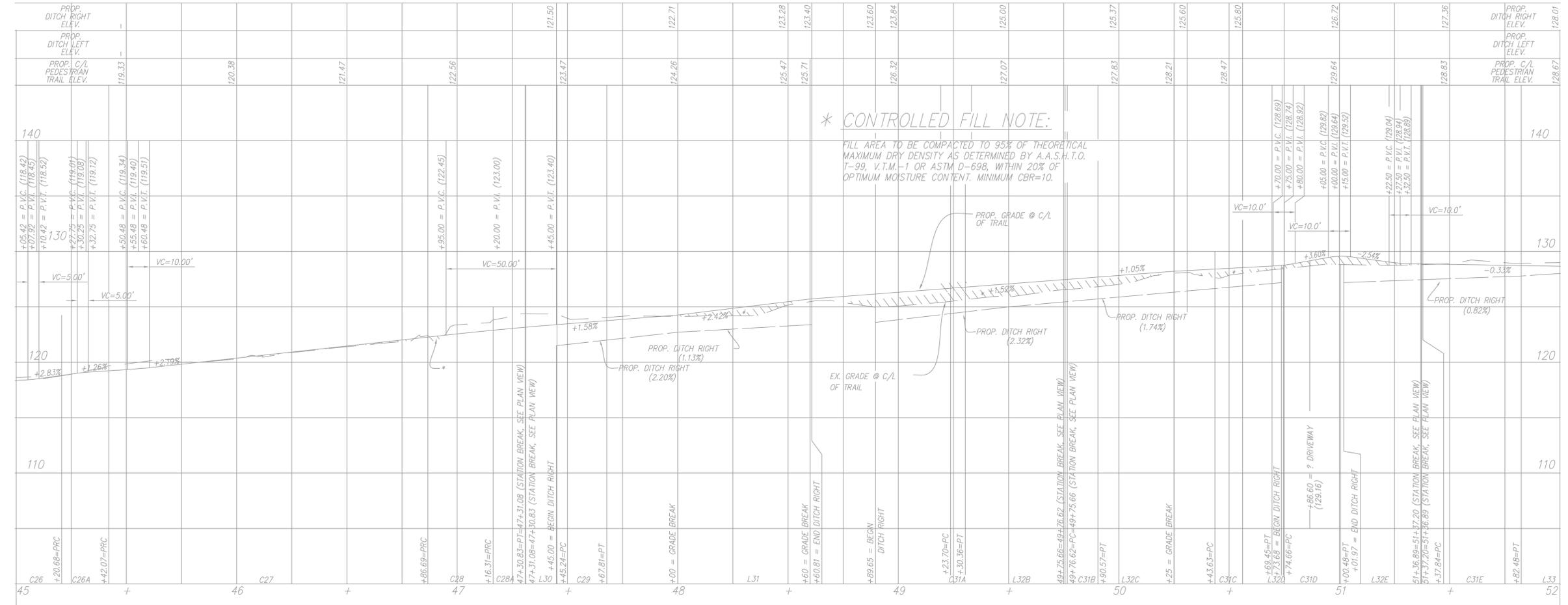
N/F
**JOHN G. COBURN
and JANICE COBURN**
DB. 13097, PG. 1134
TAX MAP 14-3 (11) 13B



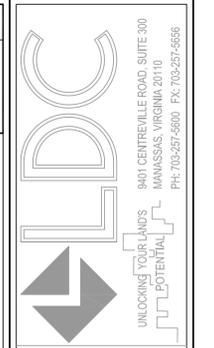
**3 - Adjust Ex. Valve Boxes
To Be Determined During Construction
By Fairfax Water Inspector**

- NOTES:
- 1) ADEQUATE TRAIL CULVERT CROSSINGS AND STABILIZATION MEASURES FOR DOWNSTREAM OUTFALLS HAVE BEEN PROVIDED. ADDITIONALLY, DRIVEWAY CULVERTS AND STORM STRUCTURES HAVE BEEN PROVIDED TO BETTER CONVEY STORMWATER ALONG AND UNDER THE TRAIL. HOWEVER, IT IS BEYOND THE SCOPE OF THIS PROJECT TO PROVIDE UPGRADES TO TRAIL-SIDE DITCHES OR TO OUTFALLS OR ROAD CULVERTS BEYOND OUR PROJECT LIMITS WHICH MAY BE INADEQUATE IN THEIR CURRENT STATE.
 - 2) ALL EXISTING MAILBOXES THAT ARE MARKED T.B.R. SHALL BE RELOCATED.

FOR FAIRFAX WATER ADJUSTMENTS ONLY



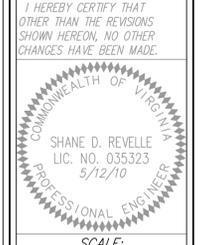
*** CONTROLLED FILL NOTE:**
FILL AREA TO BE COMPACTED TO 95% OF THEORETICAL MAXIMUM DRY DENSITY AS DETERMINED BY A.A.S.H.T.O. T-99, V.T.M.-1 OR ASTM D-698, WITHIN 20% OF OPTIMUM MOISTURE CONTENT. MINIMUM CBR=10.



PLAN AND
PROFILE

MASON NECK TRAIL
SEGMENT 2B

DATE	DESIGN NO.	DESCRIPTION	REVISION	BY	APPROVED	DATE

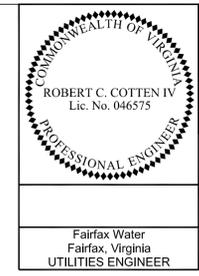


SCALE:
HORIZ.: 1"=25'
VERT.: 1"=5'

SHEET 16 OF 40

DATE: MARCH, 2010
DRAFT: MEP
CHECK: SDR
FILE NUMBER: 99091-1-2-34

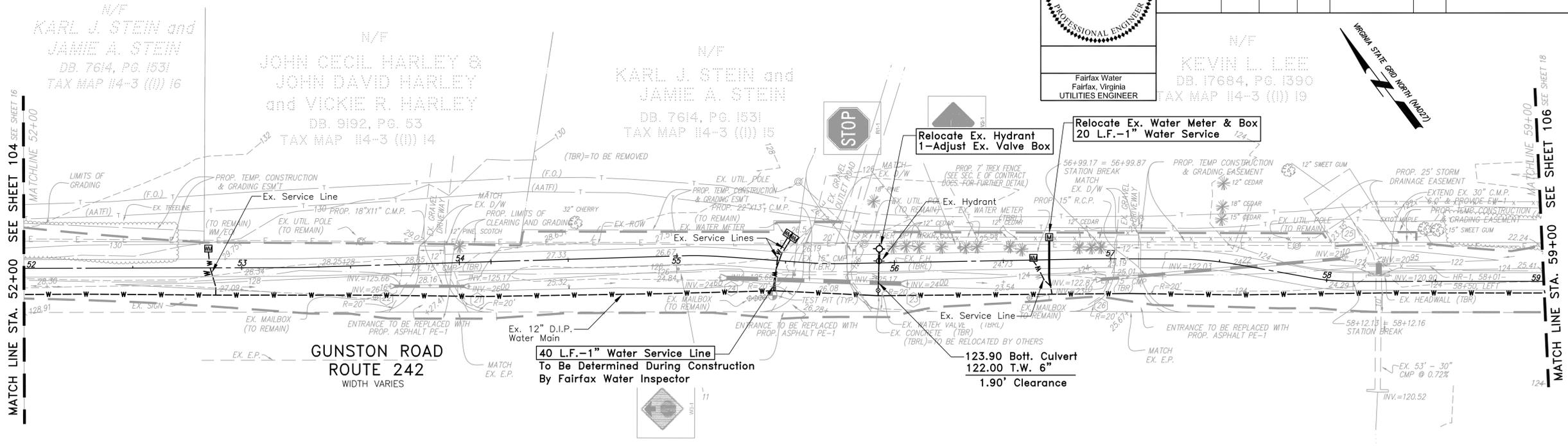
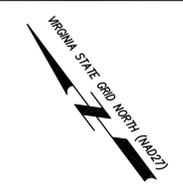
**FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B**



REVISED	FHA REGION	STATE	FEDERAL AID ROUTE	PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	1-4	VA.			242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	105

Fairfax Water
Fairfax, Virginia
UTILITIES ENGINEER

N/F
KEVIN L. LEE
DB. 17684, PG. 1390
TAX MAP 114-3 (11) 19



MATCH LINE STA. 52+00 SEE SHEET 104

MATCH LINE STA. 59+00 SEE SHEET 106

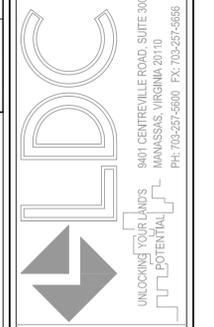
- NOTES:
- 1) ADEQUATE TRAIL CULVERT CROSSINGS AND STABILIZATION MEASURES FOR DOWNSTREAM OUTFALLS HAVE BEEN PROVIDED. ADDITIONALLY, DRIVEWAY CULVERTS AND STORM STRUCTURES HAVE BEEN PROVIDED TO BETTER CONVEY STORMWATER ALONG AND UNDER THE TRAIL. HOWEVER, IT IS BEYOND THE SCOPE OF THIS PROJECT TO PROVIDE UPGRADES TO TRAIL-SIDE DITCHES OR TO OUTFALLS OR ROAD CULVERTS BEYOND OUR PROJECT LIMITS WHICH MAY BE INADEQUATE IN THEIR CURRENT STATE.
 - 2) ALL EXISTING MAILBOXES THAT ARE MARKED T.B.R. SHALL BE RELOCATED.

FOR FAIRFAX WATER ADJUSTMENTS ONLY

TRANSITION FROM 2.0% CROSS-SLOPE TOWARD GUNSTON ROAD TO 2.0% CROSS-SLOPE AWAY FROM GUNSTON ROAD, SEE CROSS-SECTIONS

128.01	128.30	128.47	127.09	126.73	126.38	126.34	126.16	126.00	125.32	124.84	124.60	124.00	123.54	123.10	122.49	121.10	120.95	124.84	121.10	122.41	122.24
128.67	128.50	128.50	128.33	128.37	128.37	128.41	128.33	127.33	126.67	126.31	125.39	124.73	124.73	124.49	124.29	121.10	120.95	124.84	121.10	122.41	122.24
140																					
130																					
120																					
110																					
52	53		54		55		56		57		58		59								

***CONTROLLED FILL NOTE:**
FILL AREA TO BE COMPACTED TO 95% OF THEORETICAL MAXIMUM DRY DENSITY AS DETERMINED BY A.A.S.H.T.O. T-99, V.T.M.-1 OR ASTM D-698, WITHIN 20% OF OPTIMUM MOISTURE CONTENT. MINIMUM CBR=10.



PLAN AND
PROFILE

MASON NECK TRAIL
SEGMENT 2B

DATE	DESIGN	NO.	DESCRIPTION	REVISION	BY	APPROVED	DATE

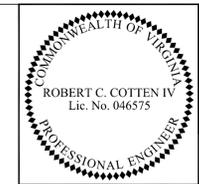
I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.



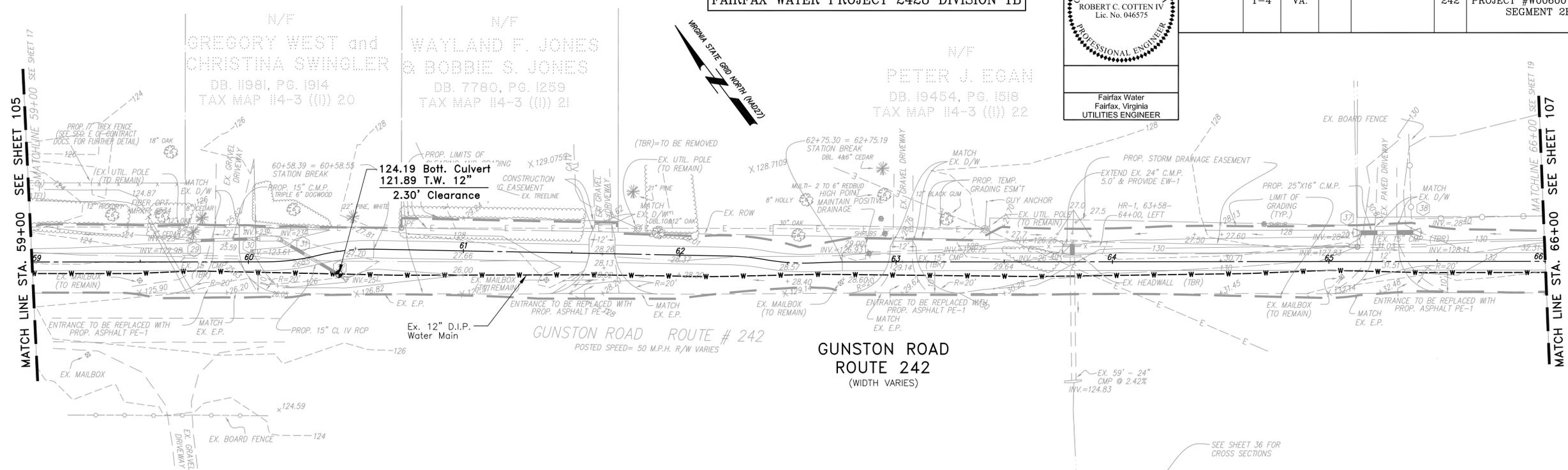
SCALE:
HORIZ.: 1"=25'
VERT.: 1"=5'

SHEET 17 OF 40
DATE: MARCH, 2010
DRAFT: MEP CHECK: SDR
FILE NUMBER: 99091-1-2-34

FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B



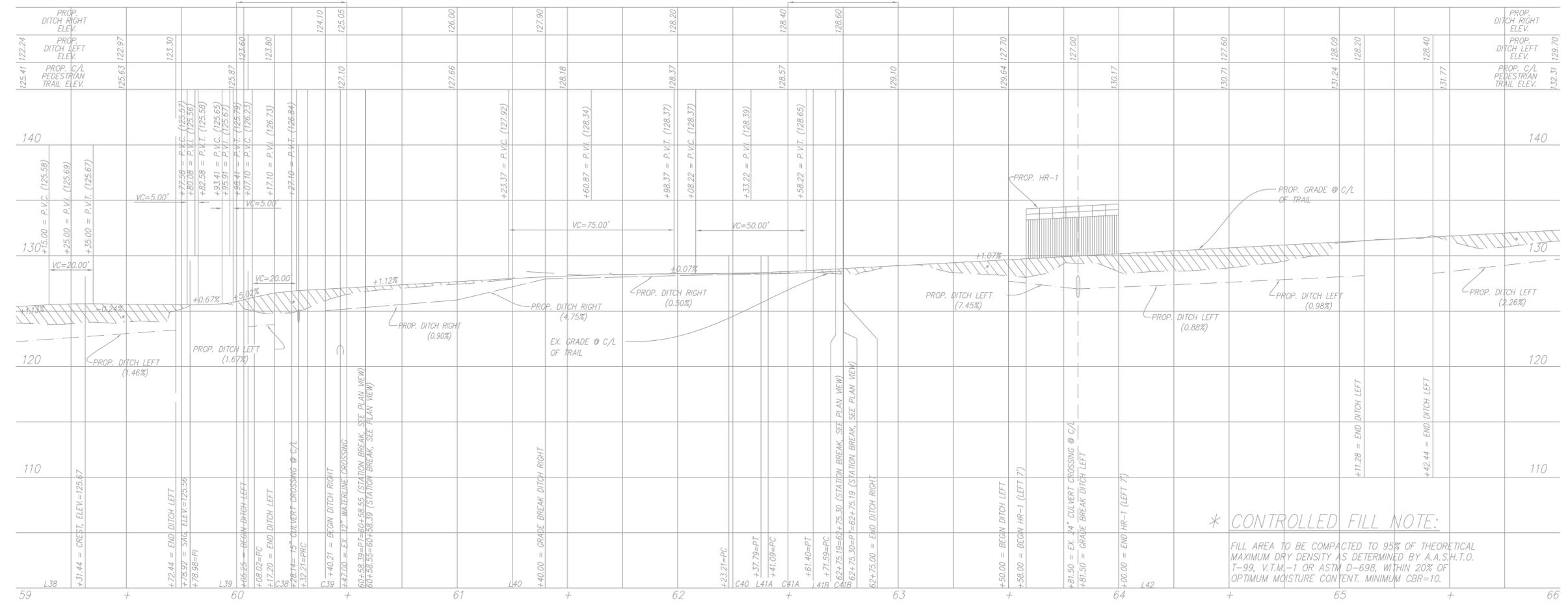
REVISED	FHWA REGION	STATE	FEDERAL AID	ROUTE	STATE	SHEET NO.
	1-4	VA.			FAIRFAX COUNTY PROJECT #W00600 (W613) SEGMENT 2B	106



- NOTES:
- 1) ADEQUATE TRAIL CULVERT CROSSINGS AND STABILIZATION MEASURES FOR DOWNSTREAM OUTFALLS HAVE BEEN PROVIDED. ADDITIONALLY, DRIVEWAY CULVERTS AND STORM STRUCTURES HAVE BEEN PROVIDED TO BETTER CONVEY STORMWATER ALONG AND UNDER THE TRAIL. HOWEVER, IT IS BEYOND THE SCOPE OF THIS PROJECT TO PROVIDE UPGRADES TO TRAIL-SIDE DITCHES OR TO OUTFALLS OR ROAD CULVERTS BEYOND OUR PROJECT LIMITS WHICH MAY BE INADEQUATE IN THEIR CURRENT STATE.
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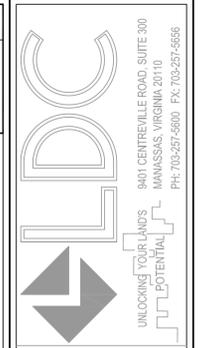
NO FAIRFAX WATER WORK REQUIRED

TRANSITION FROM 2.0% CROSS-SLOPE TOWARD GUNSTON ROAD TO 2.0% CROSS-SLOPE AWAY FROM GUNSTON ROAD, SEE CROSS-SECTIONS



* CONTROLLED FILL NOTE:

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PLAN AND PROFILE

MASON NECK TRAIL
SEGMENT 2B

DATE	DESIGN NO.	DESCRIPTION	REVIEW BY	APPROVED BY	DATE

I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.

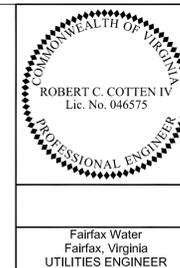


SCALE:
HORIZ.: 1"=25'
VERT.: 1"=5'

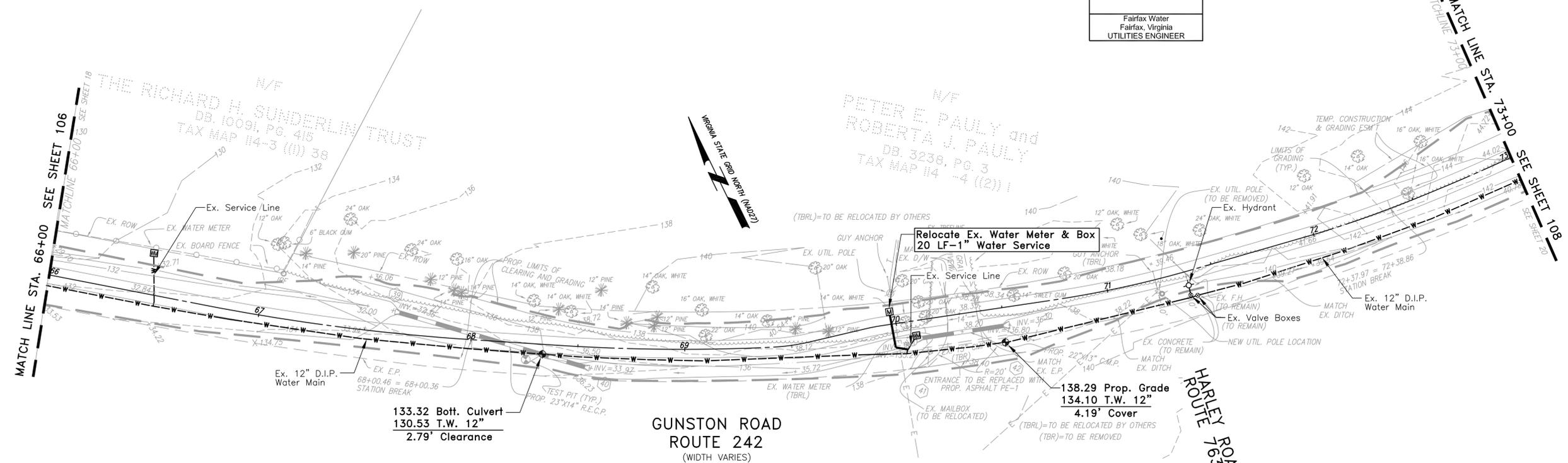
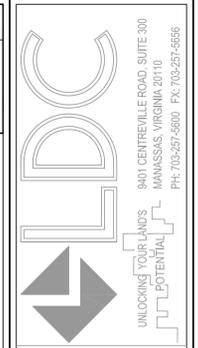
SHEET 18 OF 40	
DATE: MARCH, 2010	
DRAFT: MEP	CHECK: SDR
FILE NUMBER: 99091-1-2-34	

CN # 04307219

FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B



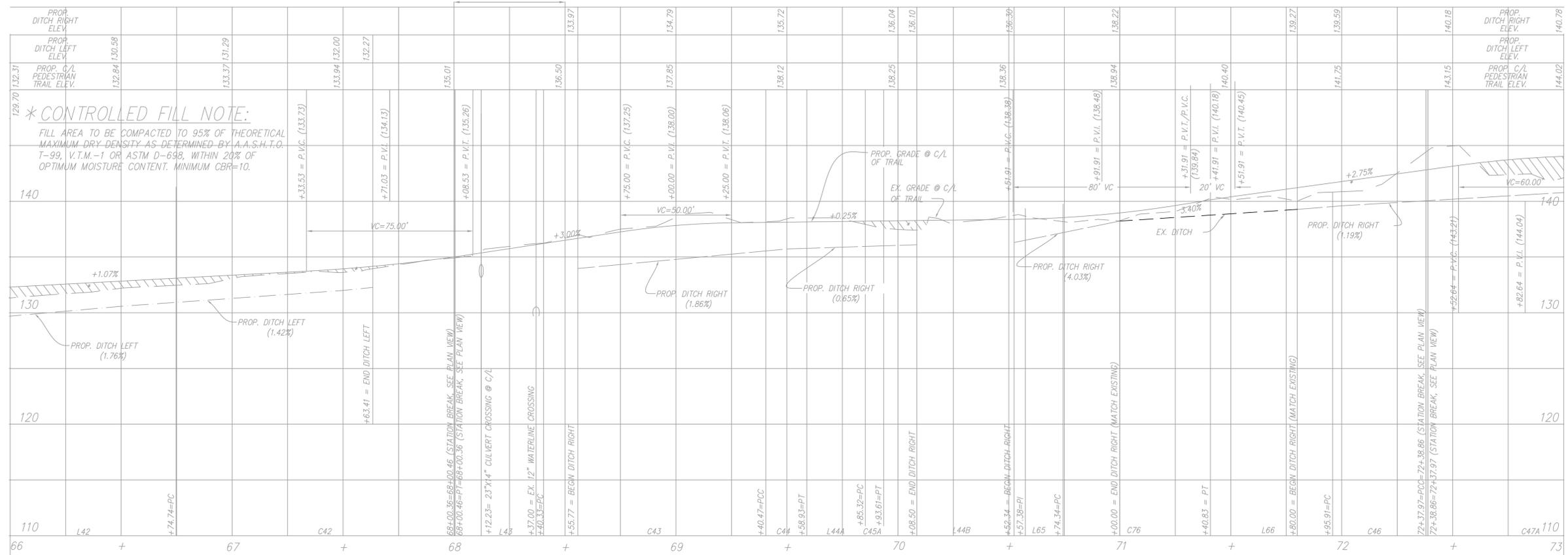
REVISED	FHWA REGION	STATE	FEDERAL AID		STATE		SHEET NO.
	1-4	VA.	ROUTE	PROJECT	ROUTE	PROJECT	
					242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	107



FOR FAIRFAX WATER ADJUSTMENTS ONLY

- NOTES:
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TRANSITION FROM 2.0% CROSS-SLOPE AWAY FROM GUNSTON ROAD TO 2.0% CROSS-SLOPE TOWARD GUNSTON ROAD, SEE CROSS-SECTIONS

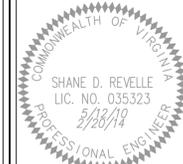


PLAN AND PROFILE

MASON NECK TRAIL
SEGMENT 2B

DATE	DESIGN NO.	DESCRIPTION	REVISION BY	APPROVED BY	DATE

I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.

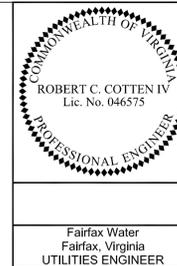


SCALE:
HORIZ.: 1"=25'
VERT.: 1"=5'

SHEET	19	OF	40
DATE:	MARCH, 2010	CHECK:	SDR
DRAFT:	MEP	FILE NUMBER:	99091-1-2-34

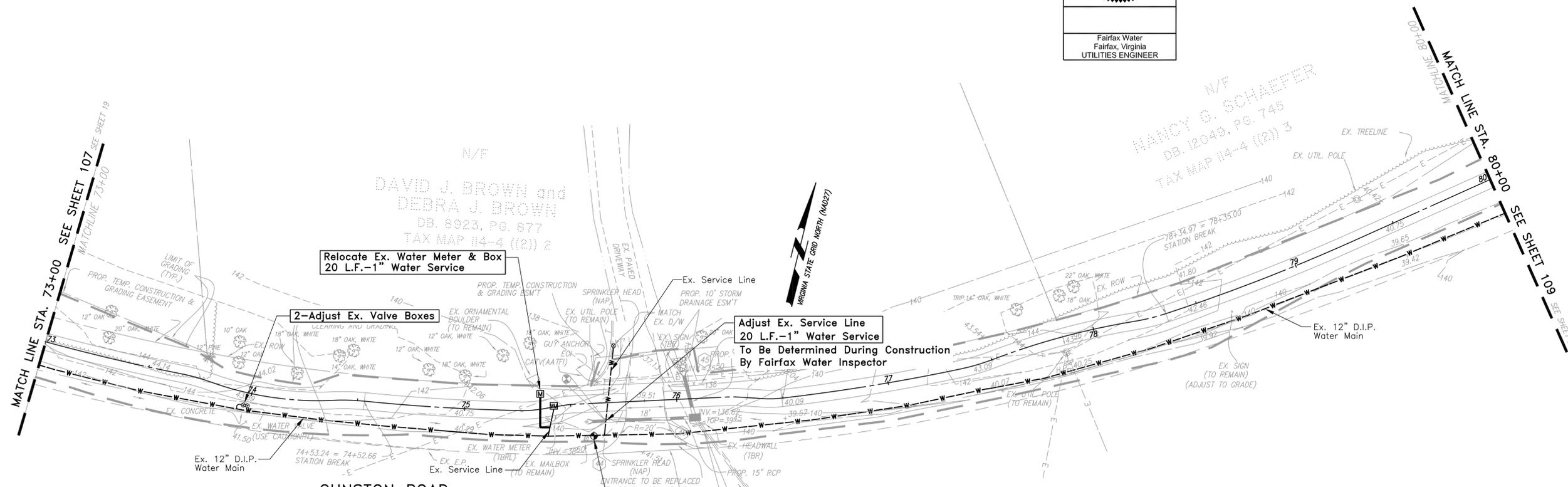
CN # 04307219

FAIRFAX WATER
 WATER MAIN RELOCATIONS
 FAIRFAX WATER PROJECT 2428 DIVISION 1B

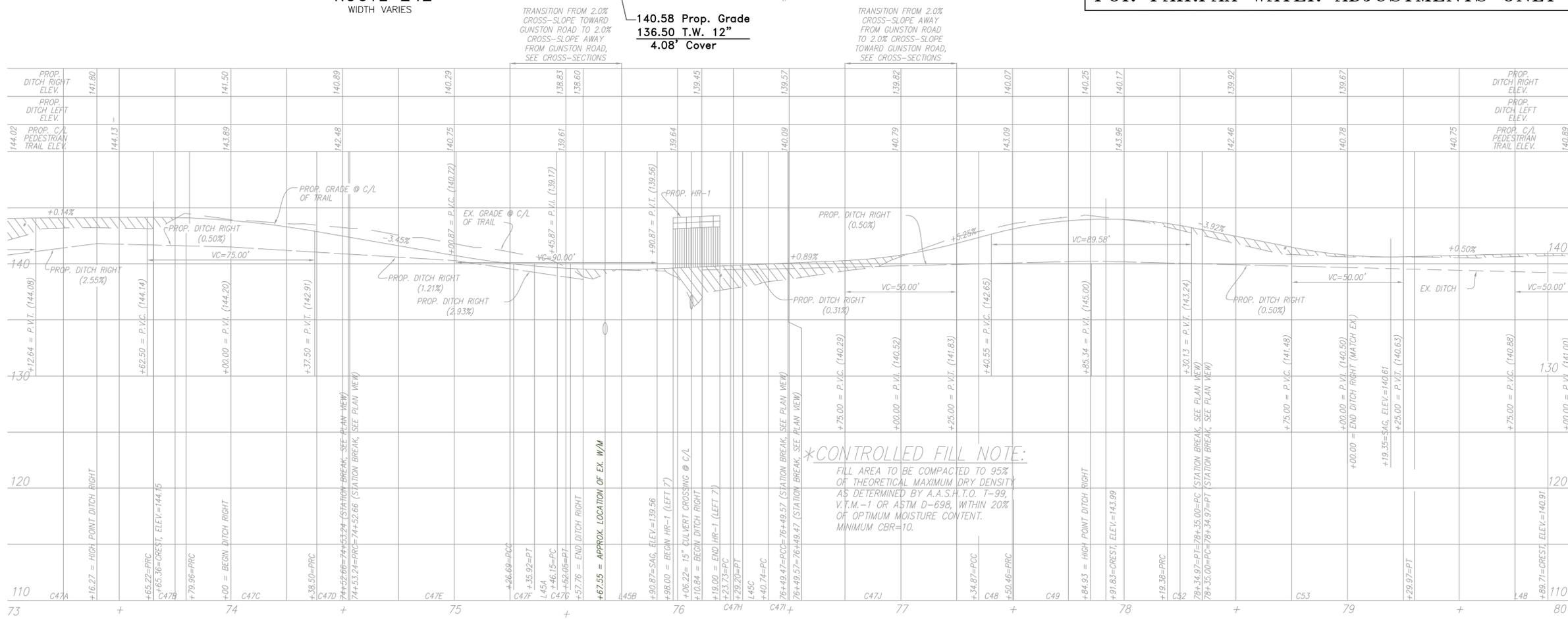


REVISED	FHA REGION	STATE	FEDERAL AID ROUTE	PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	1-4	VA.			242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	108

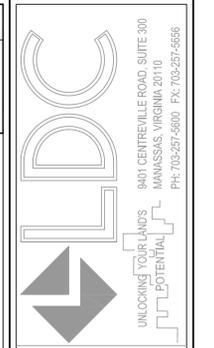
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FOR FAIRFAX WATER ADJUSTMENTS ONLY



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PLAN AND PROFILE

MASON NECK TRAIL
 SEGMENT 2B

DATE	DESIGN NO.	DESCRIPTION	REVISION	BY	APPROVED	DATE

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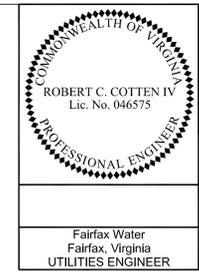
SHANE D. REVELLE
 L.C. NO. 035323
 5/12/10
 2/26/14
 PROFESSIONAL ENGINEER

SCALE:
 HORIZ.: 1"=25'
 VERT.: 1"=5'

SHEET 20 OF 40
 DATE: MARCH, 2010
 DRAFT: MEP CHECK: SDR
 FILE NUMBER: 99091-1-2-34

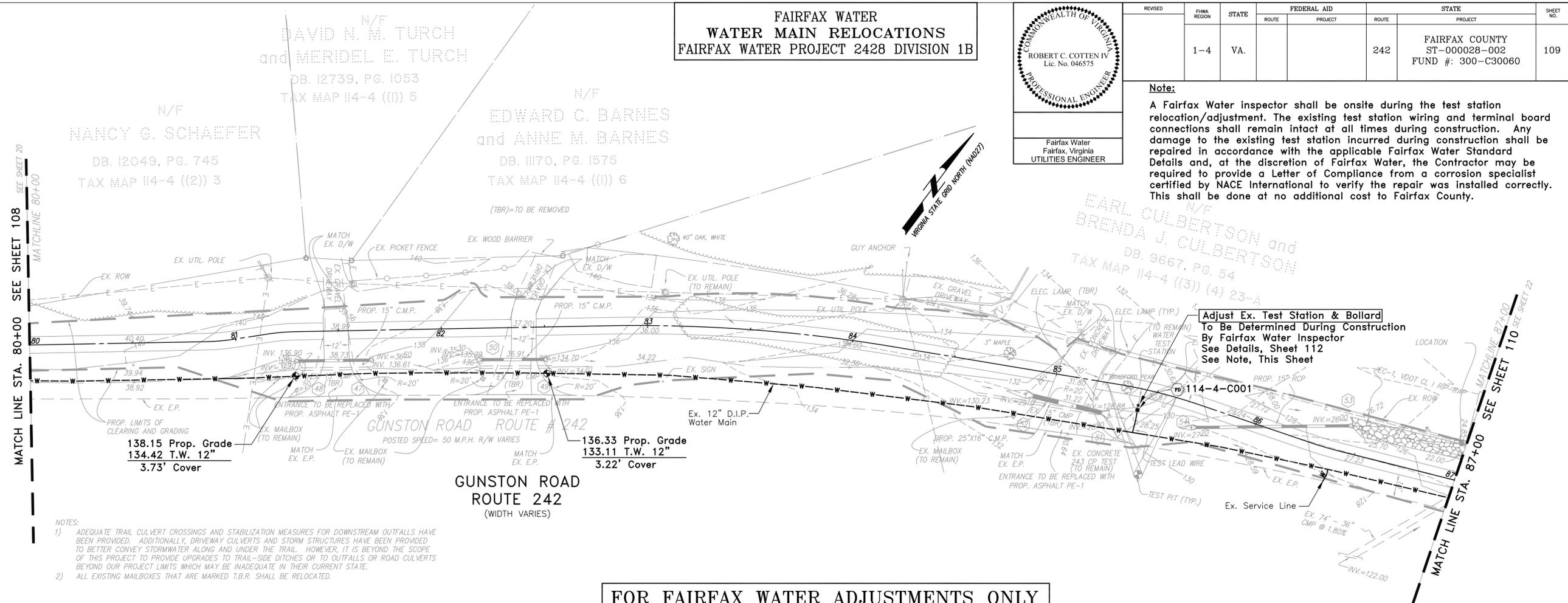
CN # 04307219

**FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B**

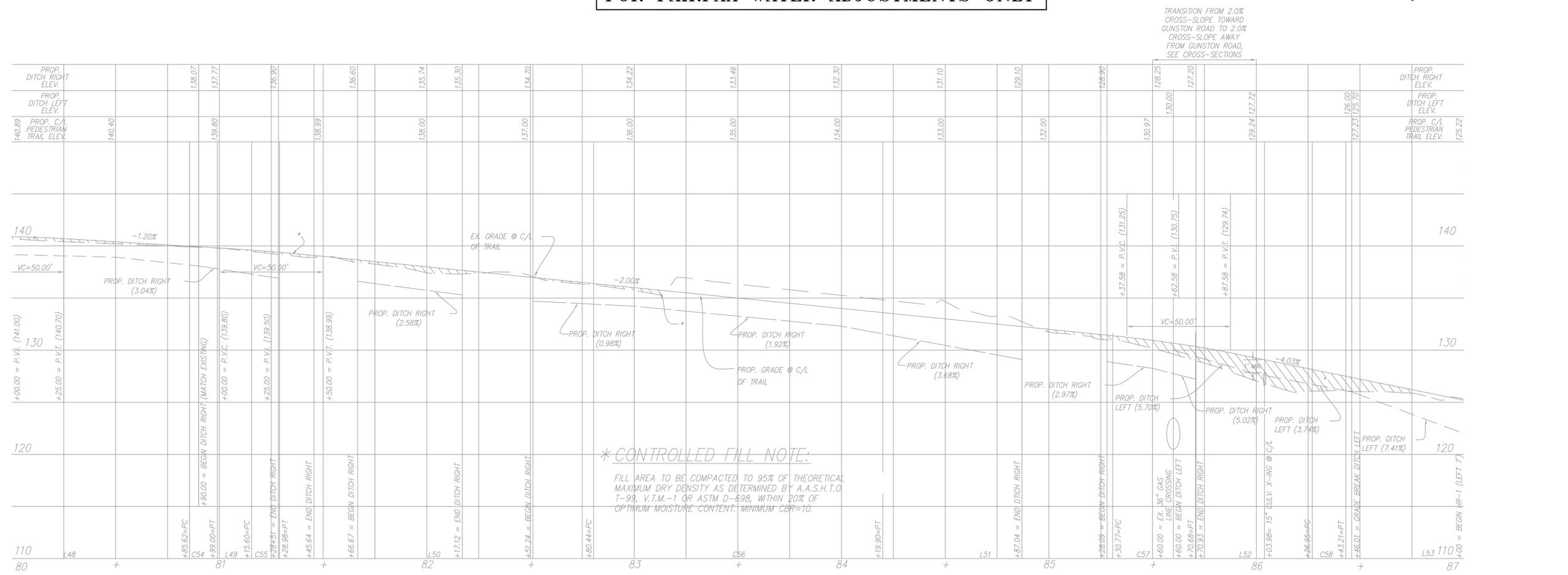


REVISED	FHWA REGION	STATE	FEDERAL AID ROUTE	PROJECT	ROUTE	STATE PROJECT	SHEET NO.
	1-4	VA.			242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	109

Note:
A Fairfax Water inspector shall be onsite during the test station relocation/adjustment. The existing test station wiring and terminal board connections shall remain intact at all times during construction. Any damage to the existing test station incurred during construction shall be repaired in accordance with the applicable Fairfax Water Standard Details and, at the discretion of Fairfax Water, the Contractor may be required to provide a Letter of Compliance from a corrosion specialist certified by NACE International to verify the repair was installed correctly. This shall be done at no additional cost to Fairfax County.



- NOTES:**
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PLAN AND PROFILE

**MASON NECK TRAIL
SEGMENT 2B**

UNLOCKING YOUR LAND'S POTENTIAL
9401 CENTREVILLE ROAD, SUITE 300
MANASSAS, VIRGINIA 20110
PH: 703-257-5600 FAX: 703-257-5656

FAIRFAX COUNTY, VIRGINIA

DATE	DESIGN NO.	DESCRIPTION	REVIEW BY	APPROVED BY	DATE

I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.

COMMONWEALTH OF VIRGINIA
SHANE D. REVELLE
LIC. NO. 035323
5/12/10
2/26/14
PROFESSIONAL ENGINEER

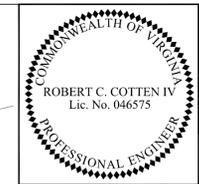
SCALE:
HORIZ.: 1"=25'
VERT.: 1"=5'

SHEET 21 OF 40

DATE: MARCH, 2010
DRAFT: MEP CHECK: SDR
FILE NUMBER: 99091-1-2-34

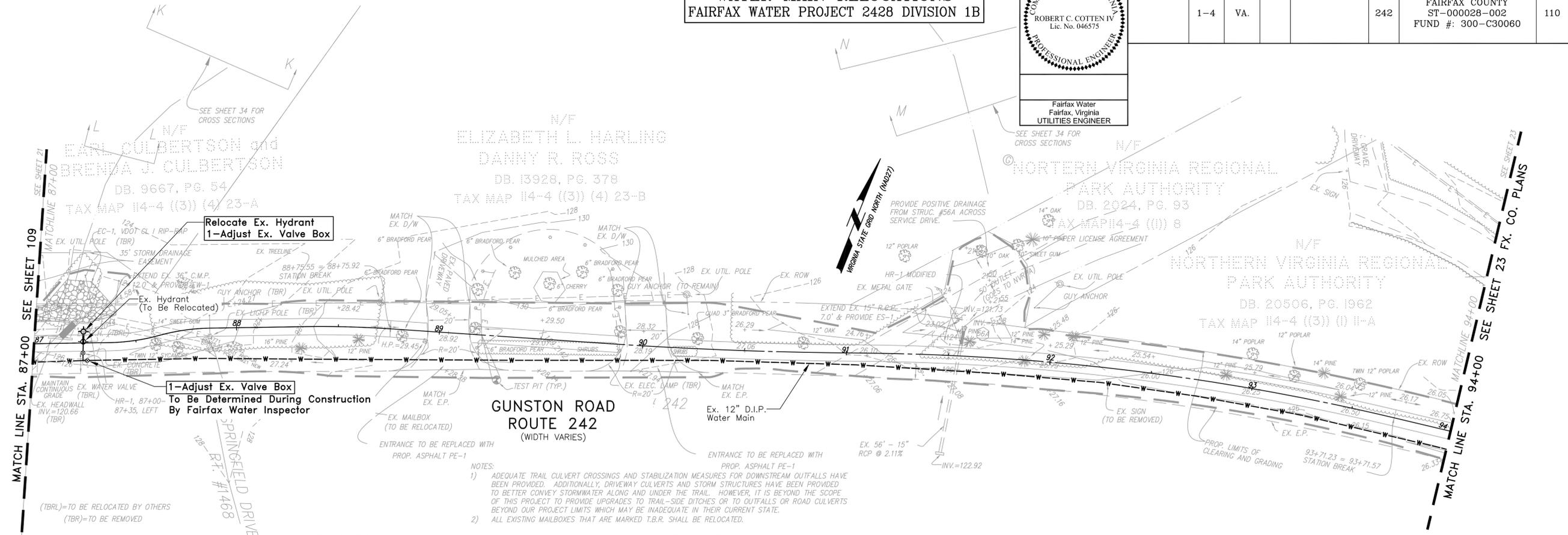
CN # 04307219

FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B



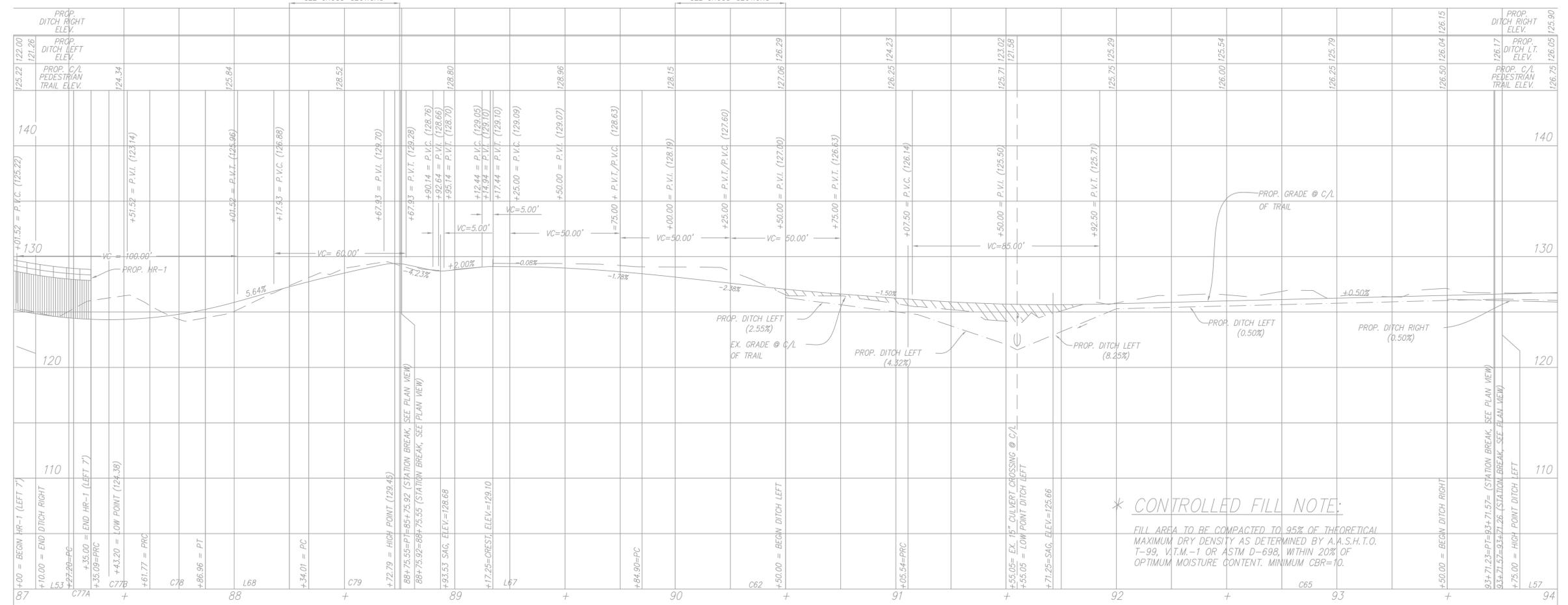
REVISED	FHWA REGION	STATE	FEDERAL AID	STATE	SHEET NO.
	1-4	VA.	ROUTE PROJECT	ROUTE PROJECT	
			242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	110

Fairfax Water
Fairfax, Virginia
UTILITIES ENGINEER



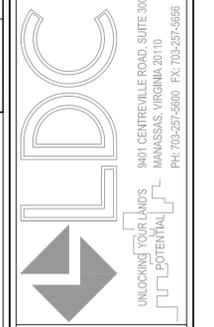
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FOR FAIRFAX WATER ADJUSTMENTS ONLY



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PLAN AND
PROFILE

MASON NECK TRAIL
SEGMENT 2B

DATE	DESIGN	NO.	DESCRIPTION	REVISION	APPROVED BY:	DATE
	ENGINEER					

I HEREBY CERTIFY THAT OTHER THAN THE REVISIONS SHOWN HEREON, NO OTHER CHANGES HAVE BEEN MADE.

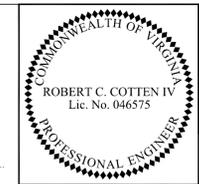


SCALE:
HORIZ.: 1"=25'
VERT.: 1"=5'

SHEET	22	OF	40
DATE:	MARCH, 2010	CHECK:	SDR
DRAFT:	MEP	FILE NUMBER:	99091-1-2-34

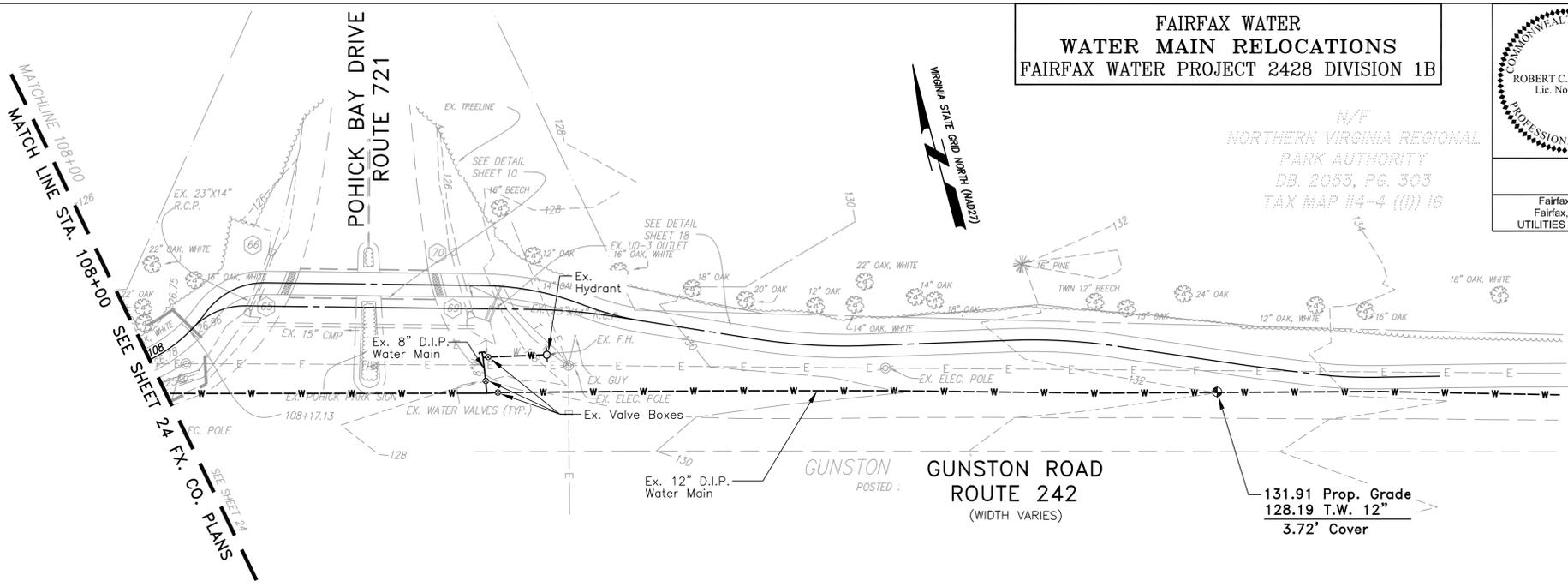
CN # 04307219

**FAIRFAX WATER
WATER MAIN RELOCATIONS
FAIRFAX WATER PROJECT 2428 DIVISION 1B**

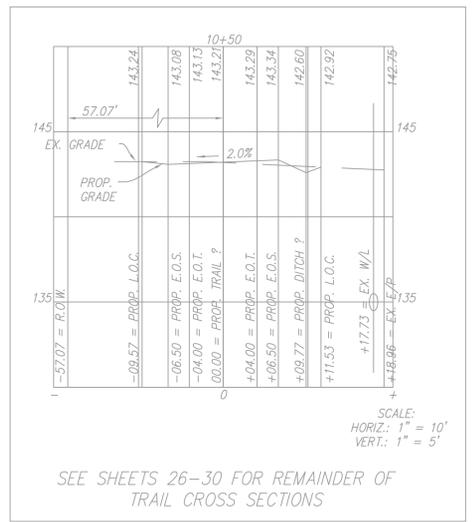


Fairfax Water
Fairfax, Virginia
UTILITIES ENGINEER

REVISED	FIMA REGION	STATE	FEDERAL AID		STATE		SHEET NO.
			ROUTE	PROJECT	ROUTE	PROJECT	
	1-4	VA.			242	FAIRFAX COUNTY ST-000028-002 FUND #: 300-C30060	111

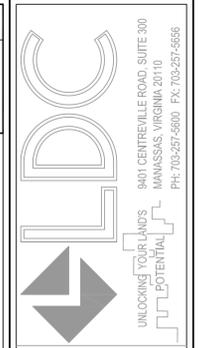
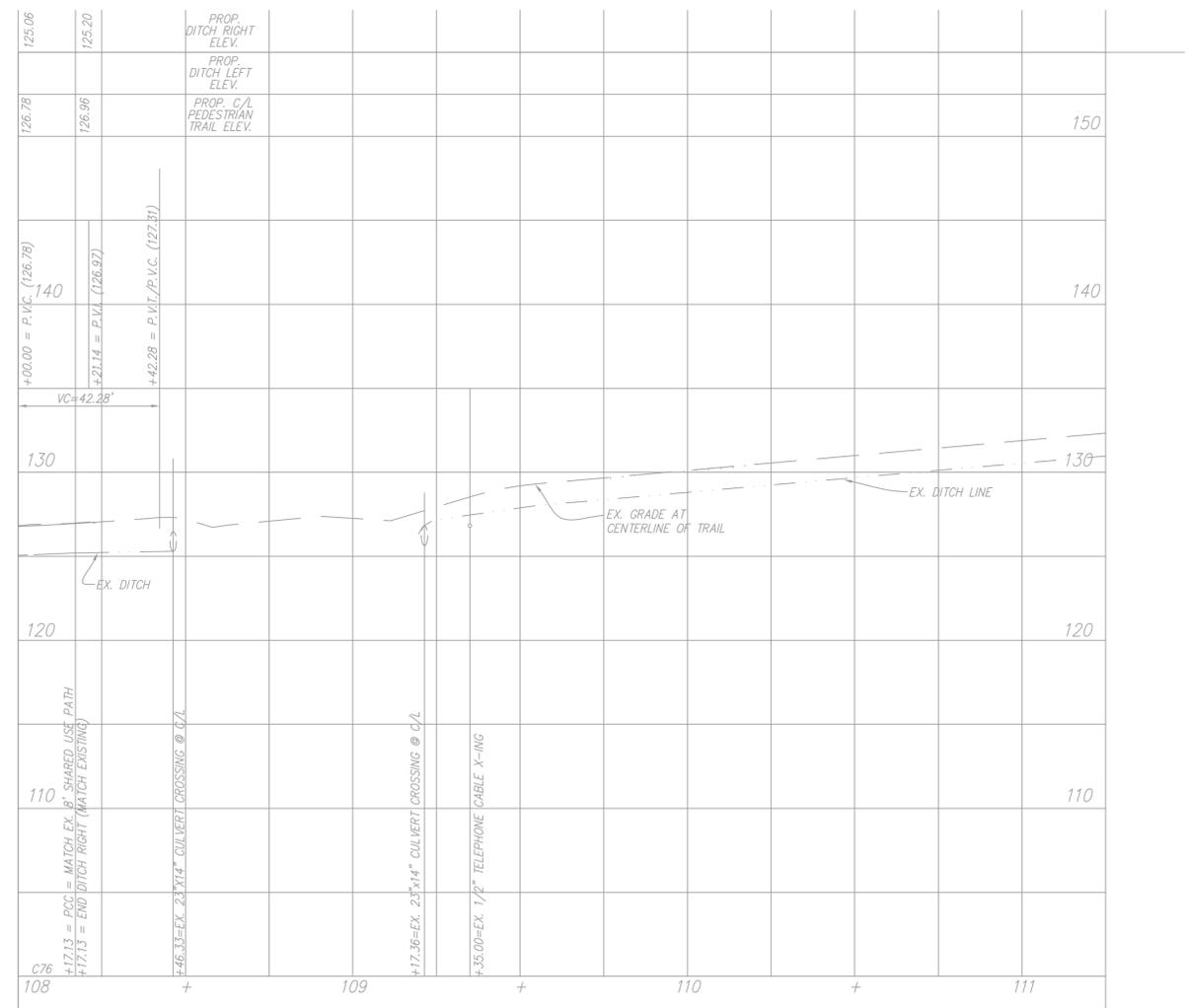


N/V
NORTHERN VIRGINIA REGIONAL
PARK AUTHORITY
DB. 2053, PG. 303
TAX MAP II4-4 ((I)) 16



NOTES:
1) ADEQUATE TRAIL CULVERT CROSSINGS AND STABILIZATION MEASURES FOR DOWNSTREAM OUTFALLS HAVE BEEN PROVIDED. ADDITIONALLY, DRIVEWAY CULVERTS AND STORM STRUCTURES HAVE BEEN PROVIDED TO BETTER CONVEY STORMWATER ALONG AND UNDER THE TRAIL. HOWEVER, IT IS BEYOND THE SCOPE OF THIS PROJECT TO PROVIDE UPGRADES TO TRAIL-SIDE DITCHES OR TO OUTFALLS OR ROAD CULVERTS BEYOND OUR PROJECT LIMITS WHICH MAY BE INADEQUATE IN THEIR CURRENT STATE.

NO FAIRFAX WATER WORK REQUIRED



PLAN AND
PROFILE

MASON NECK TRAIL
SEGMENT 2B

DATE	DESIGN NO.	DESCRIPTION	REVISION	REVIEW BY	APPROVED BY	DATE

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SHEET 25 OF 40
DATE: MARCH, 2010
DRAFT: MEP CHECK: SDR
FILE NUMBER: 99091-1-2-34



County of Fairfax, Virginia

To protect and enrich the quality of life for the people, neighborhoods and diverse communities of Fairfax County

May 29, 2015

Virginia Department of Transportation
NOVA Fairfax Permits
4975 Alliance Drive, Suite 1N300
Fairfax, VA 22030

Reference: Mason Neck Trail, Segment 2B
VDOT No. EN98-029-145, PE-101, PE-103, RW-201, C503 Phase 2B, UPC 103305
Fairfax County Project No. ST-000028-002
Project Location: Fairfax County, Gunston Road, Alexandria, VA

To whom it may concern:

Enclosed is the Land Use Permit application and associated documents for the Mason Neck Trail, Segment 2B. Since this is a federally-funded project, the LUP fee is waived as per 24VAC30-151-700. All excavation work within the VDOT right-of-way will be off Gunston Road. As such, there is no need for an Open Cut Permit. Two Work Zone Typical Traffic Controls (TTC) will be used during construction, TTC-1.1 and TTC-23.1. TTC-1 will be the traffic control that will be commonly used as trail construction will occur completely off the road. On occasion, however, work may require construction workers close to the road (i.e. roadside ditch restoration) or in the road (i.e. construction vehicles occupying the oncoming lane of Gunston Road during paving of the driveways). TTC-23.1 has been included for those occasions. Please review this information and contact me at 703-324-5822 if you have any questions.

Sincerely,

Andy Royse, P.E., Project Manager
Utilities Design and Construction Division

J:\CAP\Projects\Wastewater Design & Construction\DOT - MASON NECK TRAIL (SEGMENT 2B)\VDOT\Construction Documents for Segment 2B\dot LUP doc. 5-26-15\Mason Neck Trail Segment 2B Letter to VDOT re LUP 052915.doc

Enclosures: As Stated

cc: Ahmed Rayyan, Chief, Wastewater Design and Construction Branch, UDCD

Department of Public Works and Environmental Services
Utilities Design and Construction Division

12000 Government Center Parkway, Suite 463
Fairfax, VA 22035-0056

Phone: 703-324-5111, TTY: 1-800-828-1120, Fax: 703-324-4365

E-199

Addendum No. 1 www.fairfaxcounty.gov/dpwes





**LAND USE PERMIT
LUP-WZTCC
Work Zone Traffic Control Certification
August 27, 2014**

VDOT Work Zone Traffic Control Certification

In accordance with the Virginia Department of Transportation (VDOT) [Road and Bridge Specification, Special Provision 105.14](#), beginning July 1, 2009, all activities performed under the auspices of a VDOT Land Use Permit involving the installation, maintenance and removal of work zone traffic control devices must have at least one (1) person on-site who, at a minimum, is accredited by VDOT in Basic Work Zone Traffic Control. The person accredited by VDOT in Basic Work Zone Traffic Control may install, maintain and remove work zones that are in accordance with the Virginia Work Area Protection Manual and/or a work zone that has been preapproved by VDOT. A person accredited by VDOT in Intermediate Work Zone Traffic Control must be on-site to provide supervision during work zone adjustments or changes to traffic control due to field conditions. These persons must have their accreditation card with them while on the project site.

NON-COMPLIANCE MAY RESULT IN PERMIT SUSPENSION &/OR A STOP WORK ORDER

Applicant:	Fairfax County DPWES/ Contractor: To Be Determined Following Bid Advertisement		
Project Name:	Mason Neck Trail - Segment 2B, UPC 103305, Fairfax Co. Project ST-000028-002		
District:	NOVA	County:	Fairfax
		Route Number:	242

Please select one of the following:

In accordance with the Virginia Department of Transportation (VDOT) Road and Bridge Specification, Special Provision 105.14, I, J. Andrew Royse, P.E., state that I will have at least one (1) person that is accredited by VDOT in Basic Work Zone Traffic Control who will be responsible for the placement, maintenance and removal of work zone traffic control devices within the project limits in compliance with the permit requirements and conditions, the approved plans, specifications, the Virginia Work Area Protection Manual and the Manual of Uniform Traffic Control Devices. A person accredited by VDOT in Intermediate Work Zone Traffic Control will be on-site to provide supervision during work zone adjustments or changes to traffic control due to field conditions. These persons will provide evidence of their accreditation upon request from VDOT personnel.

In accordance with the Virginia Department of Transportation (VDOT) Road and Bridge Specification, Special Provision 105.14, the requested activity does not involve the installation, maintenance and removal of work zone traffic control devices and therefore is exempt from the Basic Work Zone Traffic Control requirement.

5/29/15
Signature

Date

THIS DOCUMENT MUST ACCOMPANY THE VDOT LAND USE PERMIT APPLICATION

VIRGINIA WORK ZONE TRAFFIC CONTROL TRAINING OPTIONS

The following three options are available to receive Work Zone Traffic Control (WZTC) training based on an individual's job duties and responsibilities as required by the FHWA Final Rule on Work Zone Safety and Mobility and the Virginia Department of Transportation:

OPTION 1 – Have someone trained to become a qualified instructor in your company who can then instruct others, utilizing training material provided by VDOT. The following qualifications must be met in order to teach the VDOT Basic, Intermediate, or Advanced WZTC training courses:

- **Basic** – Be flagger certified either by VDOT or by the American Traffic Safety Services Association (ATSSA); posses two years of practical experience in Highway Design, Construction, Maintenance, or Traffic Operations; posses two years of documented experience in conducting training courses; and successfully complete the VDOT WZTC Intermediate or Advanced course or complete the ATSSA Virginia Intermediate/Traffic Control Supervisor (TCS) course.
- **Intermediate** - Be flagger certified either by VDOT or by ATSSA; posses two years of practical experience in Highway Design, Construction, Maintenance, or Traffic Operations; posses two years of documented experience in conducting training courses; complete and posses the ATSSA Virginia Intermediate/TCS certification.
- **Advanced** - Be flagger certified either by VDOT or by ATSSA; posses two years of practical experience in Highway Design, Construction, Maintenance, or Traffic Operations; posses two years of documented experience in conducting training courses; complete and posses the ATSSA Virginia Advanced Traffic Control Design Specialist (TCDS) certification or ATSSA Virginia Intermediate TCS certification.

To become an approved instructor, an application must be completed listing the above qualifications and sent to the chairman of VDOT's WZST committee at the following location:

http://www.virginiadot.org/business/resources/wztc/wztc_inst_app_form.pdf

Once a person has become an approved instructor, training material can be obtained from VDOT using the order form obtained from the following location (requires an approved instructor identification number):

http://www.virginiadot.org/business/resources/wztc/WZTC_order_form.pdf

OPTION 2 – Obtain the services of an approved instructor from VDOT's Approved WZTC Instructor List to teach the course or courses you need for your employees.

The Approved WZTC Instructor's List can be obtained at the following location:

http://www.virginiadot.org/business/resources/wztc/Approved_WZTC_Instructors.pdf

A list of Approved Providers of training can be obtained at the following location:

http://www.virginiadot.org/business/resources/wztc/wztc_training_sponsors.pdf

OPTION 3 – Send personnel to classes conducted by approved sources such as ATSSA Virginia or the Virginia Local Technical Assistance Program (LTAP).

Courses by ATSSA Virginia can be found at the following location:

http://atssa.com/cs/course_information/courses_by_state?state=56

Courses by the Virginia LTAP can be found at the following location:

<http://ltap.cts.virginia.edu/2%20Page%20Calendar%20June%20-%20Sept%2009.pdf>

Basic WZTC courses by the Virginia Rural Water Association can be found at the following location:

<http://www.vrwa.org/> (See Training Schedule)

Training by the Virginia Transportation Construction Alliance (VTCA) can be found at the following location: <http://vtca.org/>

Visit the following site for additional information regarding Virginia's Work Zone Traffic Control training program:

<http://www.virginiadot.org/business/trafficeng-WZS.asp>

Typical Traffic Control
Work Beyond the Shoulder Operation
(Figure TTC-1.1)

NOTES

Guidance:

1. *The minimum distance between the sign and work vehicle should be 1300'-1500' on Limited Access highways, and on all other roadways 500'-800' where the posted speed limit is greater than 45 mph, and 350'-500' where the posted speed limited is 45 mph or less.*

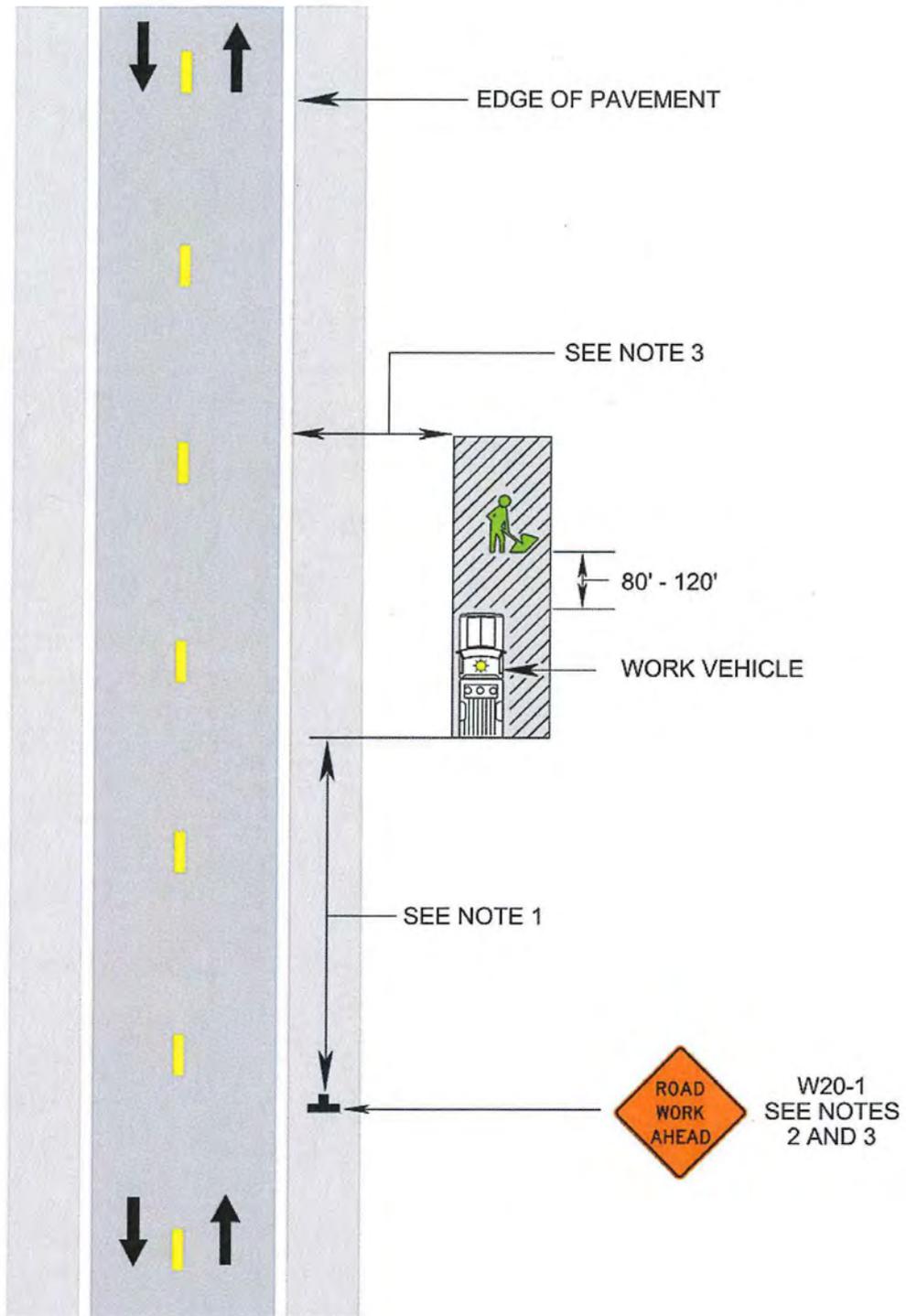
Option:

2. The ROAD WORK AHEAD (W20-1) sign may be replaced with other appropriate signs such as the SHOULDER WORK (W21-5) sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 4 feet behind vertical curb (Standard CG-2 and CG-6) on urban roadways, or outside of the clear zone for all other roadways. For clear zone values see Page A-4 of Appendix A.
4. For short-term, short duration or mobile operations¹, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity amber rotating, flashing, or¹ oscillating lights is used.

Standard:

5. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity amber rotating, flashing, or¹ oscillating lights. Vehicle hazard warning signals can be used to supplement high-intensity amber rotating, flashing, or oscillating lights.**
6. **If the work space is in the median of a divided highway, an advance warning sign shall also be placed on the left side of the directional roadway.**

Work Beyond the Shoulder Operation (Figure TTC-1.1)



Typical Traffic Control
Lane Closure on a Two-Lane Roadway Using Flaggers
(Figure TTC-23.1)

NOTES

Guidance:

1. Sign spacing distance should be 350'-500' where the posted speed limit is 45 mph or less, and 500'-800' where the posted speed limit is greater than 45 mph.
2. Care should be exercised when establishing the limits of the work zone to insure maximum possible sight distance in advance of the flagger station and transition, based on the posted speed limit and at least equal to or greater than the values in Table 6H-3. Generally speaking, motorists should have a clear line of sight from the graphic flagger symbol sign to the flagger.

Option:

3. Where Right-of-Way or geometric conditions prevent the use of 48" x 48" signs, 36" x 36" signs may be used.

Standard:

4. Flagging stations shall be located far enough in advance of the work space to permit approaching traffic to reduce speed and/or stop before passing the work space and allow sufficient distance for departing traffic in the left lane to return to the right lane before reaching opposing traffic (see Table 6H-3 on Page 6H-5).
5. All flaggers shall be state certified and have their certification card in their possession when performing flagging duties (see Section 6E.01, Qualifications for Flaggers).
6. Cone spacing shall be based on the posted speed and the values in Table 6H-4 on Page 6H-6.¹
7. A shadow vehicle with at least one high intensity amber rotating, flashing, or¹ oscillating light shall be parked 80'-120' in advance of the first work crew.

Option:

8. A supplemental flagger may be required in this area to give advance warning of the operation ahead by slowing approaching traffic prior to reaching the flagger station or queued traffic.

Guidance:

9. *If the queue of traffic reaches the BE PREPARED TO STOP (W3-4) sign then the signs, and if used the portable temporary rumble strips (PTRS)¹, should be readjusted at greater distances.*
10. *When a highway-rail crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the temporary traffic control zone should be extended so that the transition area precedes the highway-rail crossing (see Figure TTC-56 for additional information on highway-rail crossings).*

Standard:

11. **At night, flagger stations shall be illuminated, except in emergencies (see Section 6E.08).**

Option:

12. Cones may be eliminated when using a pilot vehicle operation or when the total roadway width is 20 feet or less.
13. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).

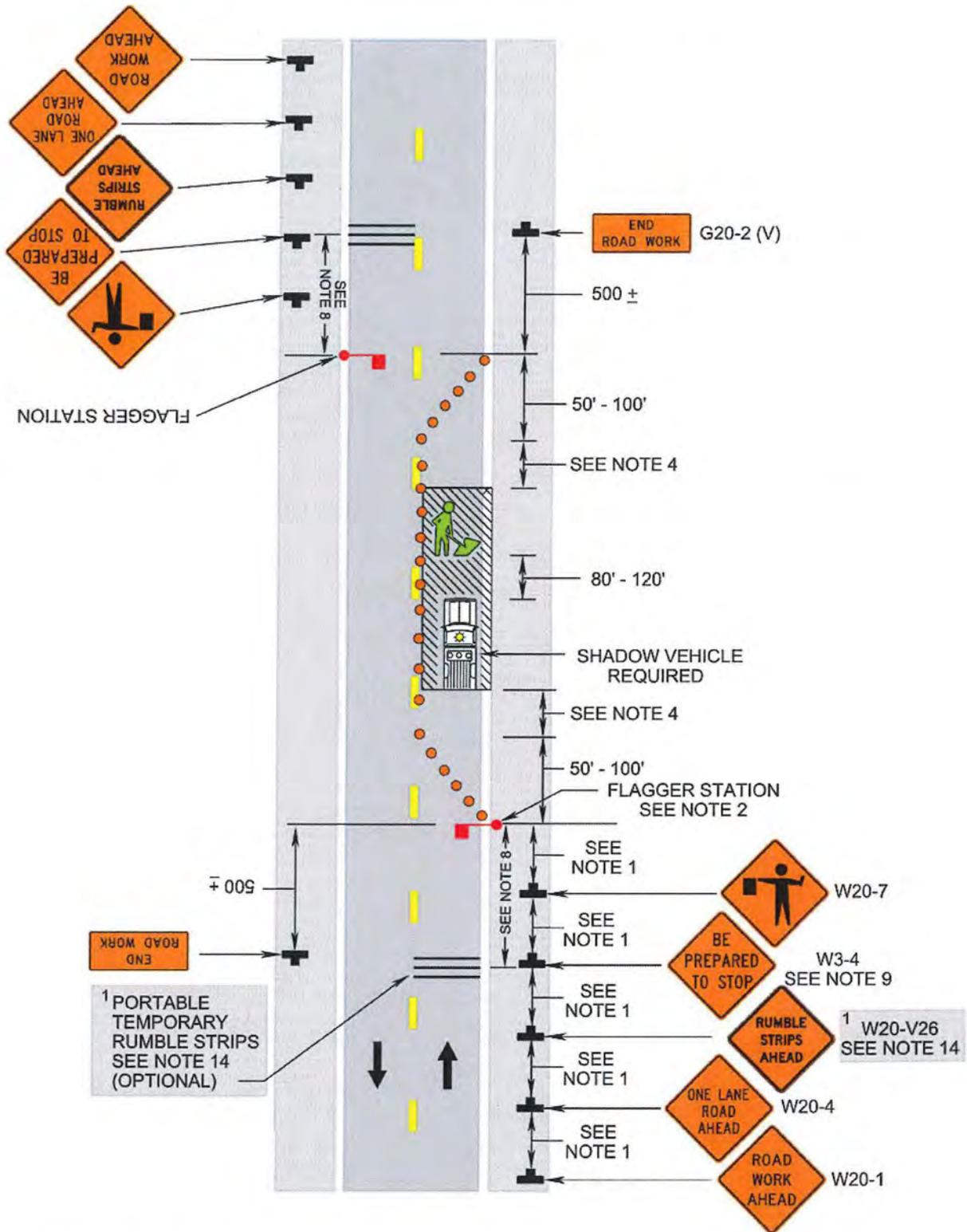
Standard:¹

14. **When approved for use, three portable temporary rumble (PTRS) strips shall be installed across the entire travel lane adjacent to the BE PREPARED TO STOP (W3-4) sign. The portable temporary rumble strips shall be monitored and adjusted as necessary during the work shift to ensure proper placement on the roadway. When the PTRS are installed, the RUMBLE STRIPS AHEAD (W20-V26) sign shall also be utilized.**

Posted Speed	0 – 35 mph	36 – 55 mph
PTRS Spacing (Center to Center)	5 Feet	8 Feet

1: Revision 1 – 4/1/2015

Lane Closure on a Two-Lane Roadway Using Flaggers (Figure TTC-23.1)



1: Revision 1 - 4/1/2015



LAND USE PERMIT
LUP-A
Land Use Permit Application

APPLICATION is hereby made for permit as shown on the accompanying plan or sketch and as described below. Said activity(s) will be done under and in accordance with the rules and regulations of the Commonwealth Transportation Board of Virginia...

Type or print clearly

Applicant Driver's license or Tax ID No. 690-53-0369
Owner Name Fairfax County/DPWES/UDCD
Address 12000 Government Center Pkwy., Suite 463
City Fairfax State VA Zip Code 22035

Contact Name Brad Melton
E-mail Address Brad.Melton@fairfaxcounty.gov
Telephone Number (703) 324 - 5111
Emergency Telephone Number (703) 324 - 1211
Fax Number (703) 324 - 4365

Agent Driver's license or Tax ID No.
Agent Name
Address
City State Zip Code

Contact Name Andy Royse
E-mail Address Andy.Royse@fairfaxcounty.gov
Telephone Number (703) 324 - 5822
Emergency Telephone Number (703) 324 - 1211
Fax Number (703) 324 - 4365

Permit Term Requested 2 years Fees Enclosed \$ 0 Check Number Coupon Number(s)
Money Order Other Estimated cost of work to be performed on VDOT Right of Way \$

Surety Information: Surety Posted by: Owner [x] Agent [] Surety Refund to: Owner [] Agent [] Surety Waived [x]
Amount of Surety \$ Obligation Amount \$ Check #
Surety Company Name Bond #

[] LUP-CS CASH SURETY AFFIDAVIT PROVIDED FOR CASH SURETY

Applicant has provided proof of the following requirements in accordance as defined in §2.2-1151.1 of the Code of Virginia

- (1) The utility company has registered as an operator with the appropriate notification center.
(2) Attached is a notarized affidavit, stating that the utility owner has notified the commercial and residential developer, owner of commercial or multifamily real estate, or local government entities with a property interest in any parcel of land located adjacent to the property over which the land use is being requested, that application for the permit has been made.

Request permission to perform the following activity(s): Install asphalt shared use path (trail), RCP, CMP, ES-1's, ES-1A's, ES-2's, ES-3's, EW-1's, DI-12B's, PE-1's, rip rap, signs, E&S controls (construction entrances, inlet and outlet protection, silt fence, safety fence, tree protection), handrail, concrete slabs w/ detectable warning surfaces. Install two fire hydrants and water service line. Relocate ex. waterline valves, fire hydrants, meters, test stations). Estimated start: 9/1/15. Estimated end: 8/31/17. Fee waived per 24VAC30-151-700 (UPC 103305). as per attached plans.

Location: [x] County | Town | City of Fairfax Route No. 242 Street Name Gunston Road
Latitude 38°40'15" N Longitude 77°11'30" W Tax Map Number 114-3 and 114-4 Applicant Job No. ST-000028-002
Between Route No. Street Name outlet road to Pohick Bay GC and Route No. 721 Street Name Pohick Bay Drive

[] IF APPLICABLE, I AGREE TO PAY THE FULL SALARY AND EXPENSES OF A STATE ASSIGNED INSPECTOR IN CONJUNCTION WITH ACTIVITIES AUTHORIZED UNDER THE AUSPICES OF A VDOT LAND USE PERMIT

Signature of Applicant: [Signature] Title Sr. Engineer III Date 5/29/15
Signature of Agent: Title Date

All applicable items on this form must be completed to avoid delay in processing the issuance of a VDOT Land Use Permit. Prepayment required with remittance payable to Virginia Department of Transportation.

VDOT USE ONLY

Receipt is hereby acknowledged for: CHECK No. COUPON No. MONEY ORDER No.
In the Amount of \$ for PERMIT FEE \$ CASH SURETY \$
Authorized VDOT Signature: Date:



LAND USE PERMIT
LUP-SPG
Special Provisions - General
August 27, 2014

Permittee Agreement for Land Use Permit Issuance

I the undersigned hereby acknowledge that I am fully cognizant of all of the following requirements associated with the issuance of a VDOT Land Use Permit:

Applicant Name: J. Andrew Royse, P.E.

Applicant Signature: *J. Andrew Royse*

Project Name: Mason Neck Trail - Segment 2B, UPC 103305, Fairfax County Project No. ST-000028-002

District: NOVA County: Fairfax Route Number: 242

VDOT Land Use Permit Required by Law

The General Rules and Regulations of the Commonwealth Transportation Board provide that no work of any nature shall be performed on any real property under the ownership, control, or jurisdiction of VDOT until written permission has been obtained from VDOT. Written permission is granted for the above-referenced activity through the issuance of a land use permit.

By issuing a permit, VDOT is giving permission only for whatever rights it has in the right-of-way; the permittee is responsible for obtaining permission from others who may also have an interest in the property.

The permittee will be civilly liable to the Commonwealth for expenses and damages incurred by VDOT as a result of violation of any of the rules and regulations of this chapter. Violators shall be guilty of a misdemeanor and, upon conviction, shall be punished as provided for in [§33.2-210](#) of the Code of Virginia.

Any of the following provisions that may apply, shall apply:

General Requirements

- 1) Permittee acceptance and use of a Virginia Department of Transportation (VDOT) land use permit is prima facie evidence that the permittee has read and is fully cognizant of all required permit provisions, applicable traffic control plans and associated construction standards to be employed. All applicants to whom permits are issued shall at all times indemnify and save harmless the Commonwealth Transportation Board, members of the Board, the Commonwealth, and all Commonwealth employees, agents, and officers, from responsibility, damage, or liability arising from the exercise of the privileges granted in such permit to the extent allowed by law including any sums ordered to be paid or expended by VDOT by any governmental entity as a fine, penalty or damages for any violation of any applicable environmental law, or to remediate any hazardous or other material, including illicit discharge into VDOT maintained storm sewer systems.
- 2) The permittee assumes full responsibility for any and all (downstream flooding, erosion, siltation, etc.) damages that may occur as a result of the work performed under this permit. Furthermore, the Department will in no way be responsible for any damage to the facility being placed as a result of future maintenance or construction activities performed by the Department.

- 3) The permittee agrees to move, remove, alter, or change any installation that interferes with the ultimate construction of the highway in alignment or grade at no cost to the Department unless otherwise stipulated and agreed to by the Department.
- 4) The permittee shall immediately correct any situation that may arise as a result of these activities that the district administrator's designee deems hazardous to the traveling public.
- 5) Any and all highway signs, right-of-way markers, etc., disturbed as a result of work performed under this permit shall be accurately reset by the permittee immediately following the work in the vicinity of the disturbed facility. The services of a certified land surveyor with experience in route surveying may be required.
- 6) It shall be the permittee's responsibility to obtain any and all necessary permits that may be required by any other government agencies, i.e., U.S. Army Corp. of Engineers, Department of Environmental Quality, Department of Conservation and Recreation, etc.
- 7) A copy of the VDOT land use permit shall be maintained at the work site at all times.
- 8) The permittee shall notify the local district permit office at least 48 hours prior to commencement of any work requiring inspection and/or testing as stipulated in VDOT's Road and Bridge Standards (current edition) and VDOT's Road and Bridge Specifications (current edition). Failure to carry out this requirement may result in permit revocation.
- 9) The permittee is required to notify local district permit office and the regional traffic engineering section when planned excavation is within 1,000 feet of a signalized intersection. Failure to carry out this requirement may result in permit revocation.
- 10) The permittee shall to notify "Miss Utility" (or each operator of an underground utility where no notification center exists) of any planned excavation within state maintained right-of-way. This notification must be provided at least 48 hours (excluding weekends and holidays) in advance of commencing with any planned excavation within state maintained right-of-way. Failure to carry out this requirement may result in permit revocation.
- 11) It is the duty of the district administrator's designee to keep all roads maintained in a safe and travelable condition at all times. Therefore, any permit may be denied, revoked or suspended when in the opinion of the district administrator's designee, the safety, use or maintenance of the highway so requires.
- 12) The permittee shall at all times give strict attention to the safety and rights of the traveling public, their employees and themselves. VDOT reserves the right to stop work at anytime due to safety problems and/or non-compliance with the terms of the permit. The Department may, at its discretion, complete any of the work covered in the permit or restore the right-of-way to the department's standards and invoice the permittee for the actual cost of such work. The permittee may be required to move, alter, change or remove from state maintained right-of-way, in a satisfactory manner, any installation made under this permit.
- 13) All work authorized under the auspices of a VDOT land use permit shall be subject to VDOT's direction and be in accordance with VDOT's Road and Bridge Standards (current edition) and VDOT's Road and Bridge Specifications (current edition).
- 14) Design changes, specified material changes and/or field changes from the approved plans shall be submitted to the appropriate district administrator's designee for review and approval prior to proceeding with the proposed changes. This submittal shall include written justification, supplemental documentation and/or engineering calculations that support the requested changes.

- 15) The permittee shall meet or exceed the existing pavement design and typical section when constructing pavement widening adjacent to an existing state maintained roadway. The proposed pavement design and typical section shall be approved by the district administrator's designee prior to commencing with any work within state maintained right-of-way. All pavement widening shall be in accordance with VDOT's Road and Bridge Standard 303.02.

Insurance Requirements (excluding County, Town or City)

The permittee or their agent shall secure and maintain insurance to protect against liability for personal injury and property damage that may arise from the activities performed under the authority of a land use permit and from the operation of the permitted activity up to one million dollars (\$ 1,000,000) each occurrence to protect the Board members and the Department's agents or employees; seventy-five thousand dollars (\$75,000) each occurrence to protect the Board, the Department, or the Commonwealth in event of suit. Insurance must be obtained prior to start of the permitted work and shall remain valid through the permit completion date. VDOT staff may require a valid certificate or letter of insurance from the issuing insurance agent or agency prior to issuing the land use permit.

Traffic Control and Safety

- 1) The permittee shall at all times give strict attention to the safety and rights of the traveling public, their employees, and contractors. Any permit may be revoked or suspended when in the opinion of the district administrator's designee, the safety, use or maintenance of the highway so requires.
- 2) In accordance with the Virginia Department of Transportation (VDOT) Road and Bridge Specification, Special Provision 105.14, all activities performed under the auspices of a VDOT Land Use Permit involving the installation, maintenance and removal of work zone traffic control devices must have at least one (1) person on-site who, at a minimum, is accredited by VDOT in Basic Work Zone Traffic Control. The accredited person must have their VDOT Work Zone Traffic Control accreditation card in their possession while on-site.
- 3) A person accredited by VDOT in Intermediate Work Zone Traffic Control must be on-site to provide supervision for adjustment to the approved layout of any standard Typical Traffic Control (TTC) layouts outlined in the Virginia Work Area Protection Manual.
- 4) All traffic control plans shall be prepared by a person verified by VDOT in Advanced Work Zone Traffic Control.
- 5) All activities that require the disruption (stoppage) of traffic shall utilize VDOT certified flaggers. Flag persons shall be provided in sufficient number and locations as necessary for control and protection of vehicular and pedestrian traffic in accordance with the Virginia Work Area Protection Manual. All flaggers must have their certification card in their possession when performing flagging operations within state maintained right-of-way. Any flag person found not in possession of his/her certification card shall be removed from the flagging site and the district administrator's designee will suspend all permitted activities.
- 6) Any VDOT certified flag person found to be performing their duties improperly shall have their certification revoked.
- 7) The permittee shall be exempt from the requirements of Virginia Department of Transportation (VDOT) Road and Bridge Specification, Special Provision 105.14 if the authorized activity is not within the roadway (as defined in 24VAC30-151) of a state maintained highway.
- 8) Traffic shall not be blocked or detoured without permission, documented in writing or electronic communication, being granted by the district administrator's designee.
- 9) The permittee shall immediately correct any situation that may arise as a result of these activities that the district administrator's designee deems hazardous to the traveling public.

- 10) During authorized activities, the permittee shall furnish all necessary signs, flag persons and other devices to provide for the protection of traffic and workers in accordance with the Virginia Work Area Protection Manual or as directed by the district administrator's designee.
- 11) All signs shall be in accordance with the current edition of the Manual of Uniform Traffic Control Devices (MUTCD).
- 12) All lane or shoulder closures on highways in the Northern Virginia construction district classified as arterial or collector routes must be authorized, documented in writing or by electronic communication by the VDOT Transportation Operations Center (NRO/TOC).
- 13) The permittee shall notify the following appropriate VDOT Transportation Operations Center (TOC) 30 minutes prior to the installation of a lane closure or shoulder closure on non-limited access primary routes and within 30 minutes of removing the lane or shoulder closure:
 - Eastern Region (757) 424-9920: All localities within the Hampton Roads construction district excluding Greenville County and Sussex County
 - Northern Virginia (703) 877-3401: All localities within the NOVA construction district including Spotsylvania County and Stafford County
 - Central Region (804) 796-4520: All localities within the Richmond construction district including Greenville County and Sussex County. All localities within the Fredericksburg district excluding Spotsylvania County and Stafford County
 - SW Region (540) 375-0170: All localities within the Salem, Bristol, and Lynchburg construction districts
 - NW Region (540) 332-9500: All localities within the Staunton and Culpeper construction districts

Authorized Hours and Days of Work

Normal hours for work under the authority of a VDOT land use permit are from 9:00 a.m. to 3:30 p.m. for all highways classified as arterial or collector. All highways classified as local roads will have unrestricted work hours and days.

The district administrator's designee may establish alternate time restrictions in normal working hours for single use permits.

The central office permit manager may establish alternate time restrictions in normal working hours for district-wide permits.

The classifications for all state maintained highways can be found at the following link: http://www.virginiadot.org/projects/fxn_class/maps.asp

Emergency Repair

In the event of an emergency situation that requires immediate action to protect persons or property, work may proceed within the right-of-way without authorization from the district administrator's designee; however, the utility owner must contact the VDOT Emergency Operations Center as soon as reasonably possible but no later than 48 hours after the end of the emergency situation.

The utility owner must apply for a separate land use permit from the local district permit office for any emergency work performed on state maintained right-of-way when the following actions are proposed:

- Stopping or impeding highway travel in excess of 15 minutes, or,
- Accessing facilities within limited access right-of-way, or,
- Cutting the highway pavement or shoulders.

The district administrator's designee shall determine the applicable permit fee for emergency repair permits.

Holiday Restrictions

Permitted non-emergency work will not be allowed on arterial and collector highway classifications from noon on the preceding weekday through the following state observed holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. If the observed holiday falls on a Monday, the permit will not be valid from noon on the preceding Friday through noon on Tuesday.

Excavation

All excavation within state maintained rights-of-way shall comply with OSHA Technical Manual, Chapter 2, Title Excavation: Hazard Recognition in Trenching and Shoring. A professional engineer shall certify all shoring and/or trench boxes.

No excavated material is to be placed or tracked on the pavement without written permission from the District Administrator's designee. When so authorized, the pavement shall be satisfactorily cleaned by a VDOT approved method. No cleated (track-mounted) equipment is to be used on the pavement without properly protecting the pavement from damage.

Inspection and Restoration

- 1) Inspection and testing of all backfill and pavement sections shall be performed in accordance with all applicable sections of VDOT's Road and Bridge Specifications (current edition).
- 2) If during or before construction it is deemed necessary for the local district permit office to assign an inspector to the project, the permittee shall pay the Department an additional inspection fee in an amount that will cover the salary, expense allowance, and mileage allowance for the inspection(s) assigned by the Department for handling work covered by this permit. Said inspection fee shall be paid promptly each month on invoices rendered by the Department.
- 3) It shall be the decision of the district administrator's designee whether to assign an inspector to monitor the placement of all backfill and pavement restoration activities.
- 4) The absence of a VDOT inspector does not in any way relieve the permittee of their responsibility to perform the work in accordance with the approved plans, provisions of the attached permit, VDOT's Road and Bridge Standards (current edition) and VDOT's Road and Bridge Specifications (current edition).
- 5) The permittee shall be responsible for any settlement of all backfill or pavement restoration necessitated by authorized excavation activities for a period of two (2) years after the completion date of permit, and for the continuing maintenance of the facilities placed within the highway right-of-way. A one (1) year restoration warranty period may be considered, provided the permittee adheres to the following criteria:
 - The permittee retains the services of a professional engineer (or certified technician under the direction of the professional engineer) to observe the placement of all backfill and pavement restoration.
 - The professional engineer (or certified technician under the direction of the professional engineer) performs any required inspection and testing in accordance with all applicable sections of VDOT's Road and Bridge Specifications.
 - The professional engineer submits all testing reports for review and approval, and provides written certification that all restoration procedures have been completed in accordance with all applicable sections of VDOT's Road and Bridge Specifications prior to completion of the work authorized by the permit.

- 6) Whenever existing pavement is permitted to be cut, not over one-half of the roadway width shall be disturbed at one time and the first open cut trench section shall be satisfactorily restored to allow for the passage of traffic prior to the second half of the roadway surface can be disturbed.
- 7) All crossing of existing pavement shall be bored, pushed or jacked an appropriate distance from the edge-of-pavement so as not to impede the normal flow of traffic or damage the existing pavement section. Existing pavement shall not be cut unless approved by the district administrator's designee and then only if justifiable circumstances prevail or proof is shown that a thorough attempt has been made to push, bore or jack.
- 8) Authorized daily trench excavation within pavement sections shall not exceed 500 feet in length.
- 9) Pavement restoration shall be in accordance with the VDOT LUP-OC Pavement Open Cut Special Provisions. This document can also be found at: <http://www.virginiadot.org/business/bu-landUsePermits.asp>
- 10) Where the pavement is disturbed or deemed weakened in its entirety or such portions as deemed desirable by the Department, the pavement shall be restored or replaced in a manner that is satisfactory to the district administrator's designee.

Environmental

- 1) In accordance with the Virginia Department of Transportation (VDOT) Road and Bridge Specification §107.16, all contractors performing regulated land disturbing activities within VDOT right-of-way must have at least one (1) employee that has successfully completed the VDOT Erosion & Sediment Control Contractor Certification training. This person shall be on site during all land disturbance activities and will be responsible for insuring compliance with all applicable local, state and federal erosion and sediment control regulations during land disturbance activities. This person must have their certification card with them while on the project site. The land use permit will be suspended if proof of certification cannot be provided. Regulated land disturbing activities are defined as those activities that disturb 2,500 square feet or greater in Tidewater, Virginia or 10,000 square feet or greater in all other areas of the State. The Department will require evidence of this certification with any land use permit application that involves utility and/or commercial right of way improvement. Improper installation, maintenance and removal of erosion and sediment control devices may result in revocation of VDOT Erosion & Sediment Control Contractor Certification.
- 2) The permittee is responsible for pursuing and obtaining any and all environmental permits which may be required to pursue the proposed activity prior to any work beginning within state maintained right-of-way.
- 3) In the event hazardous materials or underground storage tanks are encountered within state maintained right-of-way during authorized activities, the permittee shall suspend all work immediately then notify the local district permit office and other responsible parties, i.e., the local fire department, emergency services, Department of Environmental Quality, etc. The permittee is responsible for coordination and completion of all required remediation necessary to complete the permitted activities within the state maintained right-of-way. The permittee shall provide evidence of such compliance to the local district permit office prior to recommencement of permitted activities.
- 4) In the event cultural resources, archaeological, paleontological, and/or rare minerals are encountered within the right of way during authorized activities, the permittee shall suspend all work immediately then notify the local district permit office and the proper state authority charged with the responsibility for investigation and evaluation of such finds. The permittee will meet all necessary requirements for resolving any conflicts prior to continuing with the proposed activities within the state maintained right-of-way, and shall provide evidence of such compliance to the local district permit office.

- 5) Roadway drainage shall not be blocked or diverted. The shoulders, ditches, roadside, drainage facilities and pavement shall be kept in an operable condition satisfactory to the Department. Necessary precautions shall be taken by the permittee to insure against siltation of adjacent properties, streams, etc., in accordance with VDOT's current standards or as prescribed by the Department's Environmental Manual and the district administrator's designee.

Entrances

- 1) VDOT's authority to regulate highway entrances is provided in §, [§33.2-240](#), and [§33.2-241](#) of the Code of Virginia and its authority to make regulations concerning the use of highways generally is provided in [§33.2-210](#) of the Code of Virginia. Regulations regarding entrances are set forth in VDOT's regulations promulgated pursuant to [§33.2-245](#) of the Code of Virginia.
- 2) The permittee shall be responsible for the design and installation of a private entrance under the auspices of a VDOT land use permit however the permittee may request that VDOT forces install the private entrance at the permittee's expense.
- 3) Street connections, private entrances, and construction entrances shall be kept in satisfactory condition during all activities authorized under the auspices of a VDOT land use permit. Entrances shall not be blocked. Ample provisions must be made to provide safe ingress and egress to adjacent properties at all times. Entrances that are disturbed shall be restored to the satisfaction of the property owner and the district administrator's designee.

Utilities

- 1) Prior to any excavation, the permittee shall comply with the terms of [Title 56, Chapter 10.3](#) of the Underground Utility Damage Prevention Act and [§56-265.14](#) through [§56-265.20](#) of the Code of Virginia. This permit does not grant permission to grade on or near property of others, or, adjust or disturb in anyway existing utility poles or underground facilities within the permitted area. Permission to do so must be obtained from the impacted utility company and any expense involved shall be borne by the permittee. Any conflicts with existing utility facilities must be resolved between the permittee and the utility owner(s) involved.
- 2) All underground utility installations within limited access right-of-way shall have a minimum of 36 inches of cover. All underground utilities within non-limited access right-of-way will require a minimum of 36 inches of cover, except underground cables that provide telecommunications service shall be at a minimum of 30 inches of cover.
- 3) Where feasible, all aboveground installations (such as fire hydrants, telephone pedestals, markers, etc.) shall be located adjacent to the outside edge of the right-of-way line and in accordance with minimum clear zone requirements. All manhole covers, valve box, etc., shall be installed two inches below existing ground line and shall conform to existing contours.
- 4) No poles, guys, anchors, etc., are to be placed on state maintained right-of-way unless authorized under the auspices of a VDOT land use permit. At no time will any such facilities be allowed between the ditch line and the traveled roadway.
- 5) All overhead installations crossing non-limited access highways shall provide a minimum of 18 feet of vertical clearance or at a minimum height as established by the National Electric Safety Code, whichever is greater. All overhead utility installations within limited access right-of-way shall maintain a minimum of 21 feet of vertical clearance. The vertical clearance for all new overhead parallel installations within non-limited access rights-of-way shall be in compliance with standards as specified in the National Electric Safety Code.

Final Inspection and Completion of Permit

Upon completion of the work covered by this permit all disturbed areas outside of the roadway prism shall be restored to their original condition as found prior to starting such work.

Completion of this permit is contingent upon the permittee's completion of the authorized work in accordance with the approved plan and compliance with all governing bodies involved in the total completion of work on state maintained right-of-way.

Upon completion of the work under permit, the permittee shall provide notification, documented in writing or electronic communication, to the district administrator's designee requesting final inspection. This request shall include the permit number, county name, route number and name of the party or parties to whom the permit was issued. The district administrator's designee shall promptly schedule an inspection of the work covered under the permit and advise the permittee of any necessary corrections.

Permit Revocation

At the discretion of the district administrator's designee, a land use permit may be revoked upon written finding that the permittee was not in compliance with all requirements contained herein and/or violated the terms of the permit, or any state and local laws and ordinances regulating activities within the right-of-way.

Permittee Notice

The preceding provisions are intentionally condensed in format and should not be loosely interpreted by the permittee without consultation with the central office permit manager and affirmation from the [Land Use Permit Regulations](#).



**LAND USE PERMIT
LUP-ESCCC
Erosion & Sediment Control Contractor Certification
August 26, 2014**

In accordance with the Virginia Department of Transportation (VDOT) Road and Bridge Specification 107.16 (a), all contractors performing regulated land disturbing activities within VDOT right-of-way must have an employee that has successfully completed the VDOT Erosion & Sediment Control Contractor Certification training. Regulated land disturbing activities are defined as those activities that disturb 2,500 square feet or greater in Tidewater, Virginia or 10,000 square feet or greater in all other areas of the State. The Department will require evidence of this certification with any Land Use Permit application that involves utility and/or commercial right of way improvement.

NON-COMPLIANCE MAY RESULT IN PERMIT SUSPENSION &/OR A STOP WORK ORDER

Applicant/Project Name:	Mason Neck Trail - Segment 2B, UPC 103305; Fairfax County DPWES Project # ST-000028-002		
Contractor:	To Be Determined Following Bid Advertisement		
District:	NOVA	County:	Fairfax
		Route Number:	242

Please select one of the following:

In accordance with the VDOT Road & Bridge Specification 107.16(a), I, J. Andrew Royse, P.E., as representative for the permit applicant, acknowledge that the permittee must have an individual that has successfully completed the VDOT Erosion & Sediment Control Contractor Certification training on site during all land disturbance activities. This individual will be responsible for insuring compliance with all applicable local, state and federal erosion and sediment control regulations during land disturbance activities and will provide evidence of said certification upon request from VDOT personnel.

In accordance with the VDOT Road & Bridge Specification 107.16 (a), work on this project is less than 2,500 or 10,000 square feet of land disturbance activities, whichever is applicable, and therefore is exempt from the Erosion & Sediment Control Contractor Certification requirements.

J. Andrew Royse
Signature

5/29/15
Date

THIS DOCUMENT MUST ACCOMPANY THE VDOT LAND USE PERMIT APPLICATION

NOTE: Training for the VDOT Erosion & Sediment Control Contractor Certification can be obtained through the Virginia Transportation Construction Alliance at: <http://www.vtca.org>