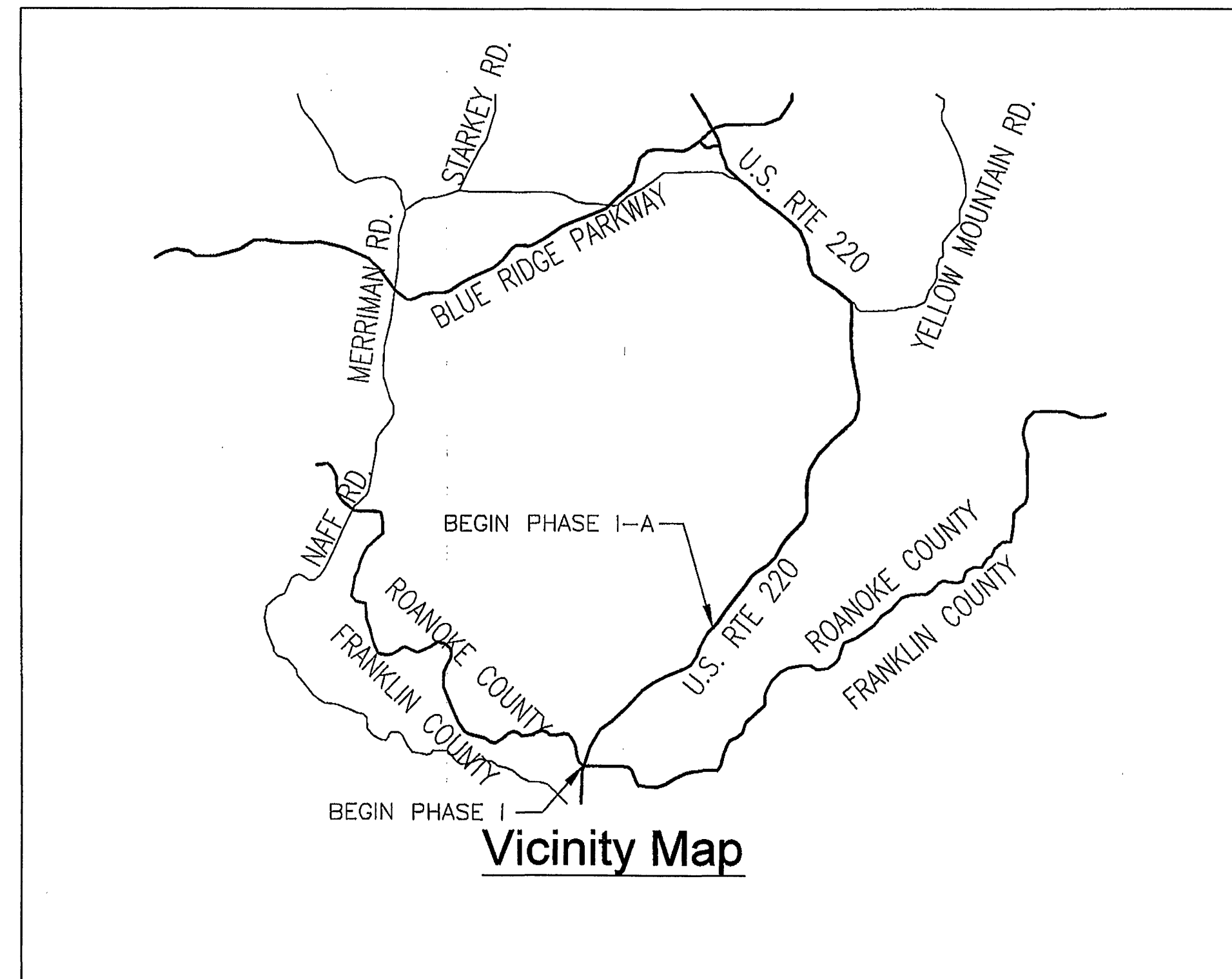


ROANOKE/FRANKLIN COUNTY WATERLINE EXTENSION PHASE I-A  
CAVE SPRING MAGISTERIAL DISTRICT  
ROANOKE COUNTY, VIRGINIA  
AUGUST 12, 2008  
PROJECT #FCPP1004

At 220  
Phase 1A  
As-Built

GENERAL SITE PLAN NOTES

- CLIENT: WESTERN VIRGINIA WATER AUTHORITY
- CONTACT INFORMATION: EARTH ENVIRONMENTAL CONSULTANTS, INC.
- PARCEL INFORMATION: MULTIPLE PARCELS IDENTIFIED IN PLANS
- THE CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS/PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRIAL/ASSOCIATION STANDARDS.
- SEE SPECIFICATIONS FOR SPECIFIC DETAILS RELATED TO WATERLINE AND APPURTENANCES.
- THE PROPERTY OWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING EROSION AND SEDIMENT CONTROL PERMIT AND PERMISSION FOR ANY OFFSITE GRADING, EROSION & SEDIMENT CONTROL MEASURES, AND CONSTRUCTION.
- NO GRADING IS PERMITTED PRIOR TO INSTALLATION OF EROSION & SEDIMENT CONTROL MEASURES AND ISSUANCE OF A LAND DISTURBANCE PERMIT BY THE APPROPRIATE REVIEWING AUTHORITY.
- CONTRACTOR SHALL INSTALL & MAINTAIN ADDITIONAL EROSION & SEDIMENT CONTROL DEVICES, PER THE LATEST EDITION OF THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK AS NEEDED TO CONTROL EROSION ON SITE FOR THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL ENSURE THAT ANY OFF SITE WORK SUCH AS LAND FILLING OPERATIONS SHALL BE PRE APPROVED BY THE OFF SITE PROPERTY OWNER ACCEPTING THE MATERIAL AND THE APPROPRIATE PERMITTING AUTHORITY.
- UTILITIES SHOWN HEREON ARE BASED ON AVAILABLE ABOVE GROUND STRUCTURES (VALVES, POLES, MANHOLES, ETC.)
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET COMPLIANCE REQUIREMENTS WITH SECTION 59.1-406, ET SEQ. OF THE CODE OF VIRGINIA (OVERHEAD HIGH VOLTAGE LINES SAFETY ACT).
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGES AS A RESULT OF CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL ALIGNMENT OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT MISS UTILITY AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.
- CONTRACTOR SHALL USE TRAFFIC CONTROL FLAGGERS ON PUBLIC ROADS. CONTRACTOR IS RESPONSIBLE FOR MEETING THE REQUIREMENTS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION.
- DISTANCES & RADII REFERRED TO ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, IDENTIFICATION, AND REPAIR OF ALL STORMWATER RELATED STRUCTURES.
- ALL TRENCHING, PIPE LAYING, AND BACKFILLING SHALL BE IN ACCORDANCE WITH FEDERAL O.S.H.A. REGULATIONS AND OTHER LOCAL AND STATE RULES AND REGULATIONS.
- ENGINEERED FILL SHOULD CONSIST OF CLEAN SOIL FILL, COMPACTED 6" TO 8" LIFTS TO A MINIMUM COMPACTIVE EFFORT OF 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). MOISTURE CONTENT SHOULD BE MAINTAINED WITHIN 2 TO 3 PERCENTAGE POINTS OF OPTIMUM MOISTURE CONTENT TO FACILITATE COMPACTION. EACH LIFT OF FILL SHOULD BE TESTED IN ORDER TO CONFIRM THAT THE RECOMMENDED DEGREE OF COMPACTION IS ACHIEVED. FILL MATERIAL: ASTM D 2487, CLASSIFICATION GW, GP, GM, GC, SW, SP, SM, SC WITH A MAXIMUM ASTM D 4318 LIQUID LIMIT OF 35, MAXIMUM ASTM D 4318 PLASTICITY INDEX OF 12, AND A MAXIMUM OF 25 PERCENT BY WEIGHT PASSING ASTM D 1140, NO. 200 SIEVE. SELECT MATERIAL: ASTM D 2487, CLASSIFICATION GW, GP, SW, SP WITH A MAXIMUM OF 10 PERCENT BY WEIGHT PASSING ASTM D 1140, NO. 200 SIEVE.
- OWNER, CONTRACTOR, AND ALL SUBCONTRACTORS SHALL COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES GOVERNED BY STATE AND LOCAL JURISDICTION.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING.
- ALL MATERIALS INDICATED ARE NEW, SHALL BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED.
- DURING THE COURSE OF CONSTRUCTION, IF THE CONTRACTOR UNCOVERS ANY CODE VIOLATION KNOWN TO HIM OR ANY DISCREPANCY WITH THE DESIGN, CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH IMMEDIATELY.
- ANY CONSTRUCTION WITHIN THE VDOT RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS AND THE VIRGINIA WORK AREA PROTECTION MANUAL ARRANGED WITH THE APPROPRIATE RESIDENCY OFFICE (SALEM AND/OR ROCKY MOUNT).
- GUARDRAIL REPAIR, REPLACEMENT, AND UPGRADE OF EXISTING GUARDRAIL AS PER LOCATION AND DESIGN DIVISION INSTRUCTIONAL AND INFORMATIONAL MEMORANDUM NUMBER IIM-LD-220.2 DATED NOV. 21, 2003. NEW INSTALLATIONS SHOULD BE IN ACCORDANCE WITH THE VDOT ROAD AND BRIDGE STANDARDS.
- TOPOGRAPHIC AERIAL SURVEY PROVIDED BY VIRGINIA RESOURCE MAPPING. FIELD VERIFICATION PROVIDED BY COMPASS POINT LAND SURVEYING AND CORNERSTONE LAND SURVEYING.
- RIM ELEVATIONS OF VAULTS AND/OR MANHOLES IN THE VDOT RIGHT OF WAY SHALL BE COUNTSUNK ONE (1) TO TWO (2) INCHES BELOW FINAL GRADE ELEVATION.
- WATERLINE TRENCH WALLS SHALL BE A MINIMUM OF ONE (1) FOOT FROM THE EXISTING EDGE OF PAVEMENT AND THREE (3) FEET FROM THE EXISTING GUARDRAIL. IF THE INTEGRITY OF THE EXISTING STRUCTURES OR PAVEMENT IS COMPROMISED, THEY SHALL BE REPLACED AS DIRECTED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL ARRANGE FOR AN APPROVED TESTING LABORATORY TO CONDUCT THE NECESSARY COMPACTION TESTS AT HIS OWN EXPENSE. TEST RESULTS SHALL BE SUBMITTED DIRECTLY FROM THE LAB TO THE ENGINEER.
- CONSTRUCTION REQUIRING LANE AND SHOULDER CLOSURES SHALL CONFORM IN ALL RESPECTS TO THE VDOT POLICY ENTITLED **LANE AND SHOULDER CLOSURES - SALEM DISTRICT** AS CONTAINED IN PARAGRAPH 1013.05 OF THE SPECIAL CONDITIONS (REF: ADDENDUM NO. 1, ITEM NO. 4). CONTRACTOR SHALL COORDINATE ALL LAND AND SHOULDER CLOSURES WITH THE APPROPRIATE VDOT RESIDENCY OFFICE (SALEM AND/OR ROCKY MOUNT).
- THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREAS WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT. AN EROSION CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.



Vicinity Map

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

This project consist of the installation of approximately 6,905.84 linear feet of 12-inch waterline adjacent to route 220.

EXISTING SITE CONDITIONS

The site conditions vary, but in general consist of installing a 12-inch waterline within VDOT R.O.W. along the shoulder of route 220.

ADJACENT PROPERTY

No adjacent property is to be disturbed, the entire project shall remain within VDOT R.O.W. Sit fence will be installed as needed to protect all adjacent property.

OFFSITE AREAS

No offsite fill or borrow areas are anticipated for this project.

CRITICAL EROSION AREAS

Inlets, streams, and other critical erosion areas will be protected in accordance with the Virginia Erosion and Sediment Control Handbook Latest Edition.

EROSION AND SEDIMENT CONTROL MEASURES

All measures to be in accordance with the Virginia Erosion and Sediment Control Handbook Latest Edition.

LEGEND

---	EXISTING PROPERTY LINE	---	NEW 12" WATERLINE
---	EXISTING 10' CONTOUR	---	EXISTING STORM DRAIN
---	EXISTING 2' CONTOUR	---	AIR RELEASE VALVE ASSEMBLY
---	EXISTING 10' CONTOUR (OBSURED)	---	FIRE HYDRANT ASSEMBLY
---	EXISTING 2' CONTOUR (OBSURED)	---	12" GATE VALVE
---	TAX PARCEL BOUNDARY LINE	---	BLOW OFF VALVE ASSEMBLY
---	TREELINE	---	SURVEY BENCHMARK
---	GUARD RAIL	---	
---	UNDERGROUND UTILITY LINES	---	
---	OBSERVED AREA	---	
---	LAMP POST	---	
---	TRAFFIC SIGNAL	---	
---	UTILITY POLE	---	
---	FENCE	---	
---	EXISTING EDGE OF PAVEMENT	---	
---	DENOTES NORTH BOUND LANE	---	
---	DENOTES SOUTH BOUND LANE	---	

ABBREVIATIONS


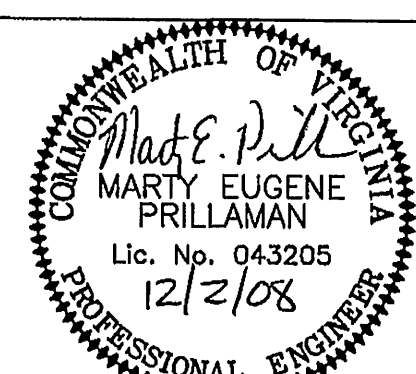


ARV	AIR RELEASE VALVE	EX	EXISTING	REQ'D	REQUIRED
BC	BACK OF CURB	FH	FIRE HYDRANT	RT	RIGHT
BM	BENCH MARK	HB	HORIZONTAL BEND	R/W	RIGHT OF WAY
C/C	CENTER TO CENTER	HC	HANDICAP	SS	SANITARY SEWER
C/G	CURB AND CUTTER	INV	INVERT	ST	STORM
CIP	CAST IRON PIPE	IPS	IRON PIN SET	STA	STATION
CL	CENTER LINE	IPF	IRON PIN FOUND	STD	STANDARD
CMP	CORRUGATED METAL PIPE	LF	LINEAR FEET	SW	SIDEWALK
CO	CLEAN OUT	LT	LEFT	TBA	TO BE ABANDONED
CONC	CONCRETE	MH	MANHOLE	TBR	TO BE REMOVED
CPP	CORRUGATED PLASTIC PIPE	NTS	NOT TO SCALE	TC	TOP OF CURB
CY	CUBIC YARDS	O.C.	ON CENTER	TOB	TOP OF BANK
DIA	DIAMETER	PE	POLYETHYLENE	TYP	TYPICAL
DIP	DUCTILE IRON PIPE	PROP	PROPOSED	UG	UNDERGROUND
EL	ELEVATION	RCP	REINFORCED CONCRETE PIPE	WL	WATERLINE
ELEC	ELECTRIC	RESTR	RESTRAINED	WW	WOVEN WIRE
				YDS	YARDS

- NOTES:  
1. THE SIZE OF THE SYMBOLS MAY VARY FROM THOSE SHOWN.  
2. ALL ABBREVIATIONS AND SYMBOLS SHOWN MAY NOT BE USED.

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G2	2 OF 9	COVER SHEET WITH GENERAL NOTES
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C2	4 OF 9	PLAN AND PROFILE STA: 222+00 - 237+00
C3	5 OF 9	PLAN AND PROFILE STA: 237+00 - 252+00
C4	6 OF 9	PLAN AND PROFILE STA: 252+00 - 267+00
C5	7 OF 9	PLAN AND PROFILE STA: 267+00 - 275+94.84
D1	8 OF 9	EROSION AND SEDIMENT CONTROL DETAILS
D2	9 OF 9	VDOT DETAILS

No:	Revisions:	Date:																
1	ROANOKE COUNTY COMMENTS	12/2																
2																		
3																		
4																		
5																		
6																		

 <b>EARTH ENVIRONMENTAL CONSULTANTS, INC.</b>								DESIGN BY: BKS/MEP		PROJECT: ROANOKE/FRANKLIN COUNTY WATERLINE EXTENSION PHASE I-A U.S. ROUTE 220 ROANOKE COUNTY, VA		DATE: 8/12/08	
235 Claiborne Avenue Rocky Mount, VA 24151 www.earthenv.com		Phone: (540) 483-5975 Fax: (540) 483-2221						DRAWN BY: BKS		TITLE: COVER SHEET WITH GENERAL NOTES		DRAWING NUMBER: G2	
								REVIEWED BY: MEP		PROJECT NUMBER: FCPP1004		SHEET NUMBER: 2 of 9	