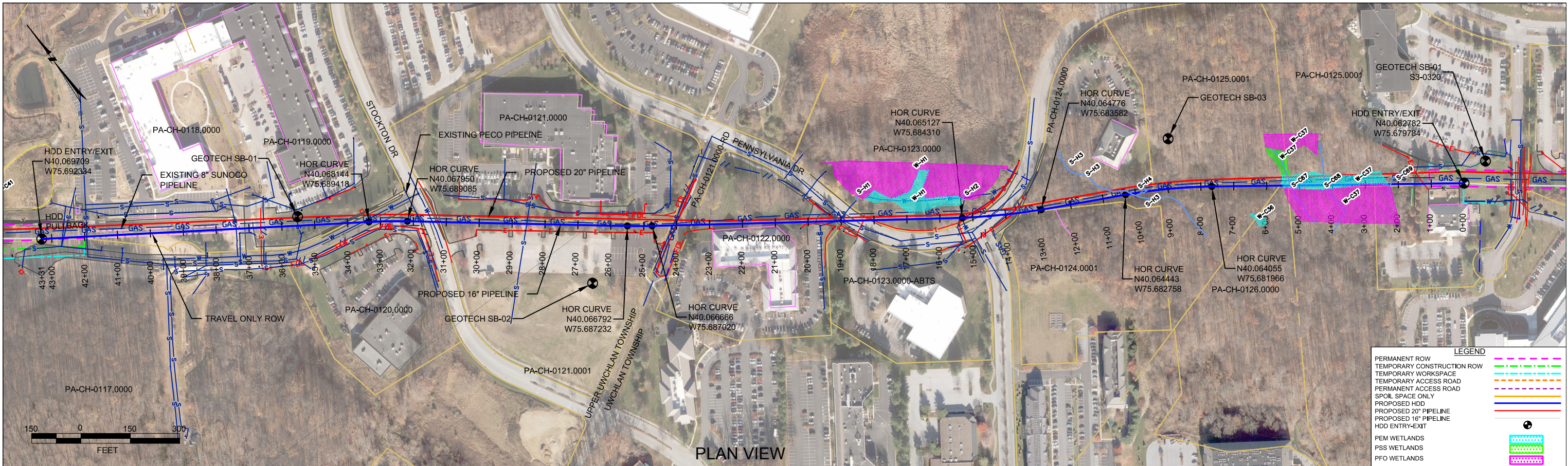
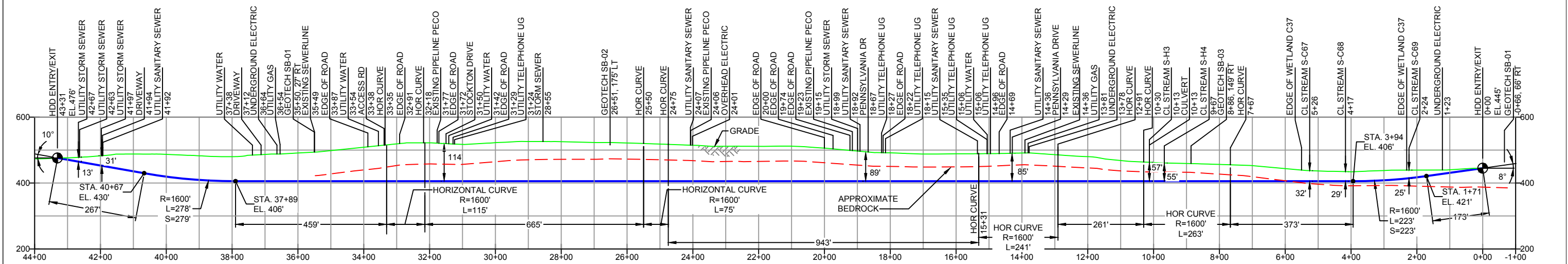




CHESTER COUNTY, PENNSYLVANIA - UWCHLAN & UPPER UWCHLAN TOWNSHIP
S3-0310-16

PROFILE VIEW



GEOTECH SB-01

- NG EL. 495'
- TOPSOIL (0' - 0.1')
- GROUNDWATER (30.5')
- SM (0.1' - 73.8')
- COMPLETION DEPTH EL. 421'

GEOTECH SB-02

- NG EL. 516'
- TOPSOIL (0' - 0.3')
- CL (0.3' - 6.5')
- GROUNDWATER (38.0')
- SM (6.5' - 45.0')
- FRACTURED GNEISS (45.0' - 51.5')
- COMPLETION DEPTH EL. 471'

GEOTECH SB-03

- NG EL. 475'
- TOPSOIL (0' - 0.3')
- SM (0.3' - 12.0')
- SM/GM (12.0' - 14.0')
- SM (14.0' - 30.0')
- COMPLETION DEPTH EL. 435'

GEOTECH SB-01

- NG EL. 450'
- TOPSOIL (0' - 0.2')
- ML (0.2' - 9.0')
- GROUNDWATER (25.0')
- SM (9.0' - 53.0')
- WEATHERED GNEISS (53.0' - 61.3')
- COMPLETION DEPTH EL. 389'

NOTE: REFER TO TEST BORING LOG S3-0310 FOR COMPLETE SOIL MATERIAL DESCRIPTION

NOTE: REFER TO TEST BORING LOG S3-0320 FOR COMPLETE SOIL MATERIAL DESCRIPTION

DESIGN AND CONSTRUCTION:

- CONTRACTOR SHALL FIELD VERIFY DEPTH OF ALL EXISTING UTILITIES SHOWN OR NOT SHOWN ON THIS DRAWING.
- THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 18 FEET AS MEASURED FROM THE OUTSIDE EDGE OF THE UTILITY TO OUTSIDE OF PROPOSED PIPELINE.
- DESIGNED IN ACCORDANCE WITH CFR 49 195 & ASME B31.4
- CROSSING PIPE SPECIFICATION:
 - HDD HORZ. LENGTH (L=): 4330'
 - HDD PIPE LENGTH (S=): 4337'
 - 16" x 0.438" W.T., X-70, API5L, PSL2, ERW, BFW COATING: 14-16 MILS FBE WITH 30-35 MIL ARO (POWERCRETE R95)
- INTERNAL DESIGN PRESSURE 1480 PSIG (SEAM FACTOR 1.0, DESIGN FACTOR 0.50).
- INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL (HDD).
- PIPELINE WARNING MARKERS SHALL BE INSTALLED ON BOTH SIDES OF ALL ROAD, RAILWAY, AND STREAM CROSSINGS.
- CARRIER PIPE NOT ENCASED.
- PIPE / AMBIENT TEMPERATURE MUST BE NO LESS THAN 30°F DURING PULLBACK WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- CONDUCT 4-HOUR PRE-INSTALLATION HYDROTEST OF HDD PIPE STRING TO MINIMUM 1850 PSIG.
- SEE SUNOCO PENNSYLVANIA PIPELINE PROJECT ESRI WEBMAP FOR ACCESS ROAD ALIGNMENT.
- SUNOCO PIPELINE, L.P.'S HORIZONTAL DIRECTIONAL DRILL INADVERTENT RETURN CONTINGENCY PLAN WILL BE IMPLEMENTED AT ALL TIMES.
- SUNOCO PIPELINE, L.P.'S EROSION AND SEDIMENTATION CONTROL PLAN WILL BE IMPLEMENTED AT ALL TIMES.

NOTES		REF. DRAWING		REVISIONS										 Sunoco Logistics Partners L.P.		 TETRA TECH ROONEY (303) 792-5911		SUNOCO PIPELINE, L.P.		
1. ALL COORDINATES SHOWN ARE IN LATITUDE AND LONGITUDE. ALL MSL ELEVATIONS ARE NAD83 2. STATIONING IS BASED ON HORIZONTAL DISTANCES. 3. ROONEY ENGINEERING, INC. AND SUNOCO PIPELINE, LP ARE NOT RESPONSIBLE FOR LOCATION OF FOREIGN UTILITIES SHOWN IN PLOT PLAN OR PROFILE. THE INFORMATION SHOWN HEREON IS FURNISHED WITHOUT LIABILITY ON THE PART OF ROONEY ENGINEERING, INC. AND SUNOCO PIPELINE, LP, FOR ANY DAMAGES RESULTING FROM ERRORS OR OMISSIONS THEREIN. 4. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES. CONTACT ONE CALL AT 811 PRIOR TO DIGGING. 5. SUNOCO EMERGENCY HOTLINE NUMBER IS #1-800-786-7440.		ES-6.32	TO	ES-6.35	EROSION & SEDIMENT PLAN														16-INCH HORIZONTAL DIRECTIONAL DRILL PENNSYLVANIA DRIVE PENNSYLVANIA PIPELINE PROJECT	
		SHEET 19	TO	SHEET 20	AERIAL SITE PLAN															
						EP1	REVISED PER PADEP COMMENTS			MRS	05/11/16	RMB	05/11/16	AAW	05/11/16					
						EP				MRS	02/26/16	RMB	02/26/16	AAW	02/26/16					
						0	ISSUED FOR CONSTRUCTION			MRS	02/19/16	RMB	02/19/16	AAW	02/19/16					
		DWG NO		DWG NO	DESCRIPTION	NO.	DESCRIPTION			BY	DATE	CHK	DATE	APP	DATE	SCALE: 1"=300'				
																DWG. NO: PA-CH-0124.0000-RD-16				