





900

- DESIGN AND CONSTRUCTION:

 1. CONTRACTOR SHALL FIELD VERIFY DEPTH OF ALL EXITING UTILITIES SHOWN OR NOT SHOWN ON THIS DRAWNING.

 2. THE MINIMUM SEPARATION DISTANCE FROM EXISTING SUBSURFACE UTILITIES SHALL NOT BE LESS THAN 10 FEET AS MEASURED FROM THE OUTSIDE EDGE OF THE UTILITY TO OUTSIDE OF PROPOSED DEPTH.
- PIPELINE.

 3. DESIGNED IN ACCORDANCE WITH CFR 49 195 & ASME B31.4

 4. CROSSING PIPE SPECIFICATION:
 HDD HORZ LENGTH (L=): 780'
 HDD PIPE LENGTH (S=): 785'
 20° x 0.456° W.T., x-65, APISL, PSL2, ERW, BFW
 COATING: 14-16 MILS FBE WITH 40 MILS MIN. ARO (POWERCRETE R95)

INTERNAL DESIGN PRESSURE 1480 PSIG (SEAM FACTOR 1.0, DESIGN FACTOR 0.50 (HOOP STRESS)). INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL (HDD).
PIPELINE WARRING MARKERS SHALL BE INSTALLED ON BOTH SIDES OF ALL ROAD, RAILWAY, AND

5+00

6+00

4+00

S=733'

3+00

- CARRIER PIPE NOT ENCASED.
- PIPE / AMBIENT TEMPERATURE MUST BE NO LESS THAN 30°F DURING PULLBACK WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
- 10. CONDUCT 4-HOUR PRE-INSTALLATION HYDROTEST OF HDD PIPE STRING TO MINIMUM 1850 PSIG.
- PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES.

8+00

BLASTING NOT PERMITTED.
 SEE SUNOCO PENNSYLVANIA PIPELINE PROJECT ESRI WEBMAP FOR ACCESS ROAD ALIGNMENT.

900

NOTES		REF. DRAWING				REVISIONS						
1. ALL COORDINATES SHOWN ARE IN LATITUDE AND LONGITUDE. AL	L MSL ELEVATIONS ARE NAD83 ES-2.13	TO	ES-2.14	EROSION & SEDIMENT PLAN	EP2	REVISED PER PADEP COMMENTS RECEIVED 09-06-16	MRS	09/30/16	RMB	09/30/16	AAW	09/30/16
2. STATIONING IS BASED ON HORIZONTAL DISTANCES. 3. ROONEY ENGINEERING, INC. AND SUNDCO PIPELINE, LP ARE NOT RESPONSIBLE FOR LOCATIC OF FOREIGN UTILITIES SHOWN IN PLOT PLAN OR PROFILE. THE INFORMATION SHOWN HEREO FURNISHED WITHOUT LLABILITY ON THE PART OF ROONEY ENGINEERING, INC. AND SUNOCO FLP, FOR ANY DAMAGES RESULTING FROM ERRORS OR OMISSIONS THEREIN. 4. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES. CONTACT ONE CALL AT 811 PR DIGGING. 5. SUNOCO EMERGENCY HOTLINE NUMBER IS #1-800-786-7440.	RESPONSIBLE FOR LOCATION SHEET 9	то	SHEET 9	AERIAL SITE PLAN	EP1	REVISED PER PADEP COMMENTS	JTW	05/06/16	RMB	05/06/16	AAW	05/06/16
					EP		DLM	03/15/16	RMB	03/15/16	AAW	03/15/16
	IS THEREIN.				С	ADDED GEOTECH INFO	MRS	09/07/15	RMB	09/07/15	AAW	09/07/15
	ONTACT ONE CALL AT 811 PRIOR TO				В	ISSUED FOR BID	MRS	07/31/15	RMB	07/31/15	AAW	07/31/15
					Α	ISSUED FOR REVIEW	PHK	02/13/15	RMB	02/13/15	AAW	02/13/15
	DWG N	NO	DWG NO	DESCRIPTION	NO.	DESCRIPTION	BY	DATE	СНК	DATE	APP	DATE

0+00

EL. 1026'

1+00

2+00



(303) 792-5911

TETRA TECH ROONEY

20-INCH HORIZONTAL DIRECTIONAL DRILL NORFOLK SOUTHERN RAILROAD PENNSYLVANIA PIPELINE PROJECT

SUNOCO PIPELINE, L.P.

SCALE: 1"=150'

DWG. NO: PA-IN-0019.0000-RR