



- DESIGN AND CONSTRUCTION:

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

 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 PIPELINE.

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

 4. CROSSING PIPE SPECIFICATION:
 HDD HORZ. LENGTH (L=):2216'
 HDD PIPE LENGTH (S=):1231'
 20" x 0.456" W.T., X-65, APISL, PSL2, ERW, BFW
 COATING: 14-16 MILS FBE WITH 30-35 MIL ARO (POWERCRETE R95)

- INTERNAL DESIGN PRESSURE 1480 PSIG (SEAM FACTOR 1.0, DESIGH FACTOR 0.50).
 INSTALLATION METHOD: HORIZONTAL DIRECTIONAL DRILL (HDD).
 PIPIELINE 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.

COATING: 14-16 MILS FBE WITH 30-35 MIL ARO (POWERCRETE R95)												
NOTES	REF. DRAWING			AWING	REVISIONS							
ALL COORDINATES SHOWN ARE IN LATITUDE AND LONGITUDE. ALL MSL ELEVATIONS ARE NAD83 STATIONING IS BASED ON HORIZONTAL DISTANCES. ROONEY ENGINEERING, INC. AND SUNCCO PIPELINE, I.P. ARE NOT RESPONSIBLE FOR LOCATION FOR FOREIGN UTILITIES SHOWN IN PLOT PLAN OR PROFILE. THE INFORMATION SHOWN HEREON IS FURNISHED WITHOUT LIABILITY ON THE PART OF ROONEY ENGINEERING, INC. AND SUNCCO PIPELINE, I.P. FOR ANY DAMAGES RESULTING FROM ERRORS OR OMISSIONS THEREIN. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES. CONTACT ONE CALL AT 811 PRIOR TO DIGGING. S. SUNCCO EMIERGENCY HOTLINE NUMBER IS #1-800-786-7440.	ES-4.92	то	ES-4.93	EROSION & SEDIMENT PLAN								
	SHEET 57	то	SHEET 57	AERIAL SITE PLAN	EP1	REVISED PER PADEP COMMENTS	MRS	05/11/16	RMB (05/11/16	AAW	05/11/16
					EP		JTW	11/23/15	RMB	11/23/15	AAW	11/23/15
					С	ADDED GEOTECH INFO	MRS	09/16/15	RMB (09/16/15	AAW	09/16/15
					В	ISSUED FOR BID	MRS	07/31/15	RMB (07/31/15	AAW	07/31/15
					Α	ISSUED FOR REVIEW	DLM	06/03/15	RMB (06/03/15	AAW	06/03/15
	DWG NO		DWG NO	DESCRIPTION	NO.	DESCRIPTION	BY	DATE	CHK	DATE	APP	DATE



20-INCH HORIZONTAL DIRECTIONAL DRILL I-76 PENNSYLVANIA PIPELINE PROJECT

SCALE: 1"=150'

TH.	TETRA TECH (303) 792–5911	ROONEY
ت	(303) 792-5911	

DWG. NO: PA-CU-0176.0014-RD

SUNOCO PIPELINE, L.P.