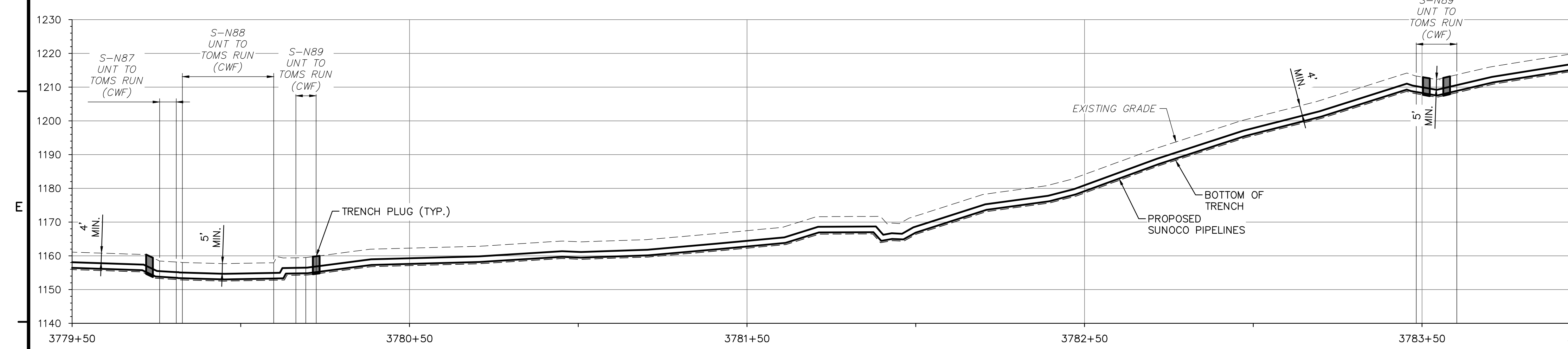
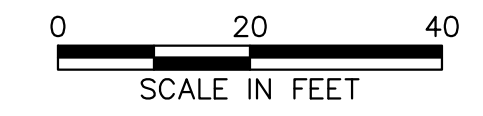


RESTORATION PLAN



PROFILE



GENERAL NOTES:

1. REFERENCE E&S PLAN AND SITE RESTORATION NOTES AND DETAILS FOR ADDITIONAL CONSTRUCTION SEQUENCING, TYPICAL DETAILS AND NOTES; AND PLAN SHEETS FOR ADDITIONAL PLANS AND TOPOGRAPHY.
2. ALL EXISTING UTILITY INFORMATION IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. MAINTAIN 2'-0" MINIMUM VERTICAL SEPARATION BETWEEN THE PROPOSED PIPELINE AND OTHER UTILITIES.
4. THE BACKGROUND TOPOGRAPHY WAS OBTAINED FROM TOPOGRAPHIC SURVEYS PERFORMED IN SEPTEMBER 2016.
5. THE PROJECT IS LOCATED IN NAD83 PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NAVD88.

WETLAND CROSSING NOTES:

1. REFERENCE E&S PLAN AND SITE RESTORATION NOTES AND DETAILS FOR WETLAND CONSTRUCTION SEQUENCING AND RESTORATION.
2. A MINIMUM OF 4 FEET COVER UNDER WETLANDS AND UPLANDS IS REQUIRED.
3. EROSION CONTROL BLANKET SHALL BE PLACED A MINIMUM OF 50 FEET EDGE OF WETLAND OR 100 FEET FROM EDGE OF WETLAND FOR SPECIAL PROTECTION WATERS (HQ OR EV).

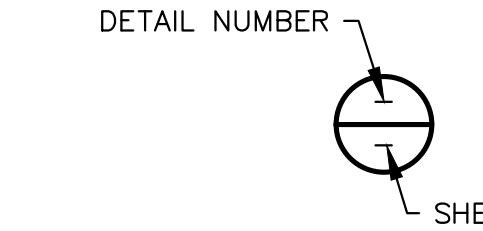
STREAM CROSSING NOTES:

1. REFERENCE E&S PLAN AND SITE RESTORATION NOTES AND DETAILS FOR STREAM CONSTRUCTION SEQUENCING AND RESTORATION.
2. TEMPORARY EQUIPMENT BRIDGE CROSSINGS ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE NOTES AND DETAILS FOR THE IMPLEMENTED METHOD.
3. SITE CONDITIONS MAY ALLOW FOR IMPLEMENTATION OF OTHER APPROVED PIPELINE INSTALLATION METHODS REFERENCED WITH THE NOTES AND DETAILS.
4. THE PIPELINES SHALL MAINTAIN A MINIMUM OF 5 FEET OF COVER UNDER STREAMS FROM THE TOP OF PIPE TO THE STREAM BED. THIS COVER WILL BE MAINTAINED AT A MINIMUM FROM TOP OF BANK TO TOP OF BANK.
5. REFERENCE THE STREAM BANK STABILIZATION DETAIL AND STREAM RESTORATION TABLE IN THE NOTES AND DETAILS WHERE RIP-RAP IS PROPOSED.
6. EROSION CONTROL BLANKET SHALL BE PLACED A MINIMUM OF 50 FEET FROM TOP OF BANK OR 100 FEET FROM TOP OF BANK FOR SPECIAL PROTECTION WATERS (HQ OR EV).
7. TIMBERMATS SHALL EXTEND A MINIMUM OF 20- FEET BEYOND TOP OF BANK.
8. COMPOST FILTER SOCK SHALL BE INSTALLED ALONG THE TOP OF BANK ACROSS THE RIGHT-OF-WAY WHEN PUMP BYPASS IS NOT IN PLACE.

LEGEND

	EXISTING 10' CONTOUR		LIMIT OF DISTURBANCE / AREA TO BE RESTORED
	EXISTING 2' CONTOUR		AASHTO #1 ROCK CONSTRUCTION ENTRANCE
	EXISTING TREE LINE		AASHTO #1 ROCK CONSTRUCTION ENTRANCE WITH WASH RACKS
	EXISTING FENCELINE		AGGREGATE STOCKPILE
	EXISTING STREAM WITH FLOW DIRECTION		WATER BAR
	EXISTING WATERSHED BOUNDARY		EROSION CONTROL BLANKET
	EXISTING ELECTRIC OVERHEAD		12" COMPOST FILTER SOCK
	EXISTING ELECTRIC UNDERGROUND		18" COMPOST FILTER SOCK
	EXISTING LIGHT POLE		24" COMPOST FILTER SOCK
	EXISTING WATER LINE		COMPOST SOCK SEDIMENT TRAP
	EXISTING GAS LINE		SILT FENCE
	EXISTING GAS LINE		SUPER SILT FENCE
	EXISTING DOMINION GAS LINE		REINFORCED SILT FENCE
	EXISTING SANITARY SEWER LINE		TIMBER MATS / TEMPORARY EQUIPMENT BRIDGE
	EXISTING BUILDING		TRENCH PLUGS
	PROPERTY LINE		WATER DEFLECTOR
	COUNTY BOUNDARY		SOIL STOCKPILE
	TOWNSHIP BOUNDARY		AREA TO BE BORED
	100-YEAR FLOODWAY		HORIZONTAL DIRECTIONAL DRILL
	100-YEAR FEMA FLOODPLAIN		AREA TO BE BORED
	WATERSHED BOUNDARY		CONVENTIONAL BORE
	ORANGE CONSTRUCTION FENCE		SCREENED INLET
	EXISTING PEM WETLAND		PUMP
	EXISTING PFO WETLAND		ENERGY DISSIPATOR
	EXISTING PSS WETLAND		ROCK FILTER OUTLET
	PROPOSED PIPE LOCATION		SANDBAG DAM
	PROPOSED RIGHT-OF-WAY		PUMPED WATER FILTER BAG
	RIPARIAN FOREST BUFFER		STREAM RESTORATION

DETAIL INDICATOR



NOTES:

1. STREAM RESTORATION CHANNEL DESIGN TABLE WITH STONE SIZING AND DETAIL PROVIDED IN UP FRONT SHEETS.
2. EROSION CONTROL BLANKET TYPICAL DETAIL PROVIDED ON ES-0.08.



661 ANDERSEN DRIVE - FOSTER PLAZA 7
PITTSBURGH, PA 15220
T: (412) 921-7090 | F: (412) 921-4040

REVISIONS			
NO.	BY	DATE	REMARKS

SUNOCO PIPELINE L.P.
SINKING SPRING, PENNSYLVANIA
PENNSYLVANIA PIPELINE PROJECT
CONSTRUCTION SPREAD 2

PROPOSED WELDED STEEL NATURAL GAS LIQUIDS PIPELINES
PADEP - SOUTHWEST REGION
INDIANA COUNTY CONSERVATION DISTRICT
CROSSINGS S-N87, S-N88, & S-N89
RESTORATION PLAN

DATE:	11/04/16
PROJECT NO.:	112C05958
DESIGNED BY:	BH
DRAWN BY:	NN
CHECKED BY:	RS
COPYRIGHT TETRA TECH INC.	
S-N87-B	
SHEET 1 OF 1	