

# TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

## REGIONAL ENERGY ACCESS EXPANSION PROJECT COMPRESSOR STATION 200

### EAST WHITELAND TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA

APRIL 2021

**PROJECT OWNER/APPLICANT**

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
2800 POST OAK BLVD, LEVEL 11  
HOUSTON, TX 77056  
PH: (713) 215-3427

**PLAN PREPARER / ENGINEER**

WHM CONSULTING, LLC  
2525 GREEN TECH DRIVE, SUITE B  
STATE COLLEGE, PA 16803  
PH: (814) 689-1650  
CONTACT: RYAN NELSON, PROJECT MANAGER

BAI GROUP, LLC.  
2525 GREEN TECH DRIVE, SUITE D  
STATE COLLEGE, PA 16803  
PH: (814) 238-2060  
CONTACT: KEVIN C. CLARK, P.E.

**PROJECT INFORMATION**

ESCP PERMIT BOUNDARY: 20.28 Ac.

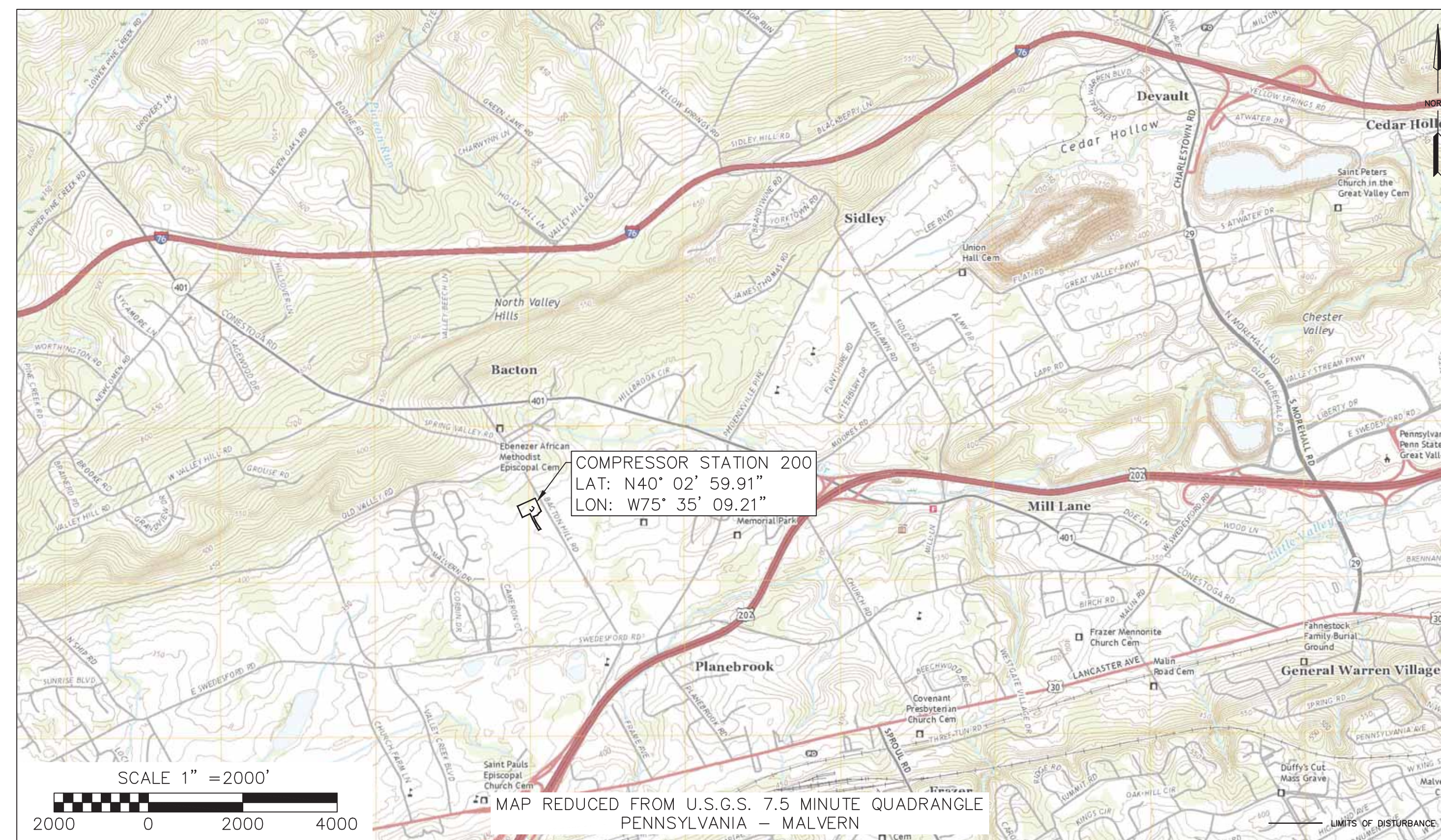
LIMIT OF DISTURBANCE: 3.16 Ac.

**PROJECT DESCRIPTION**

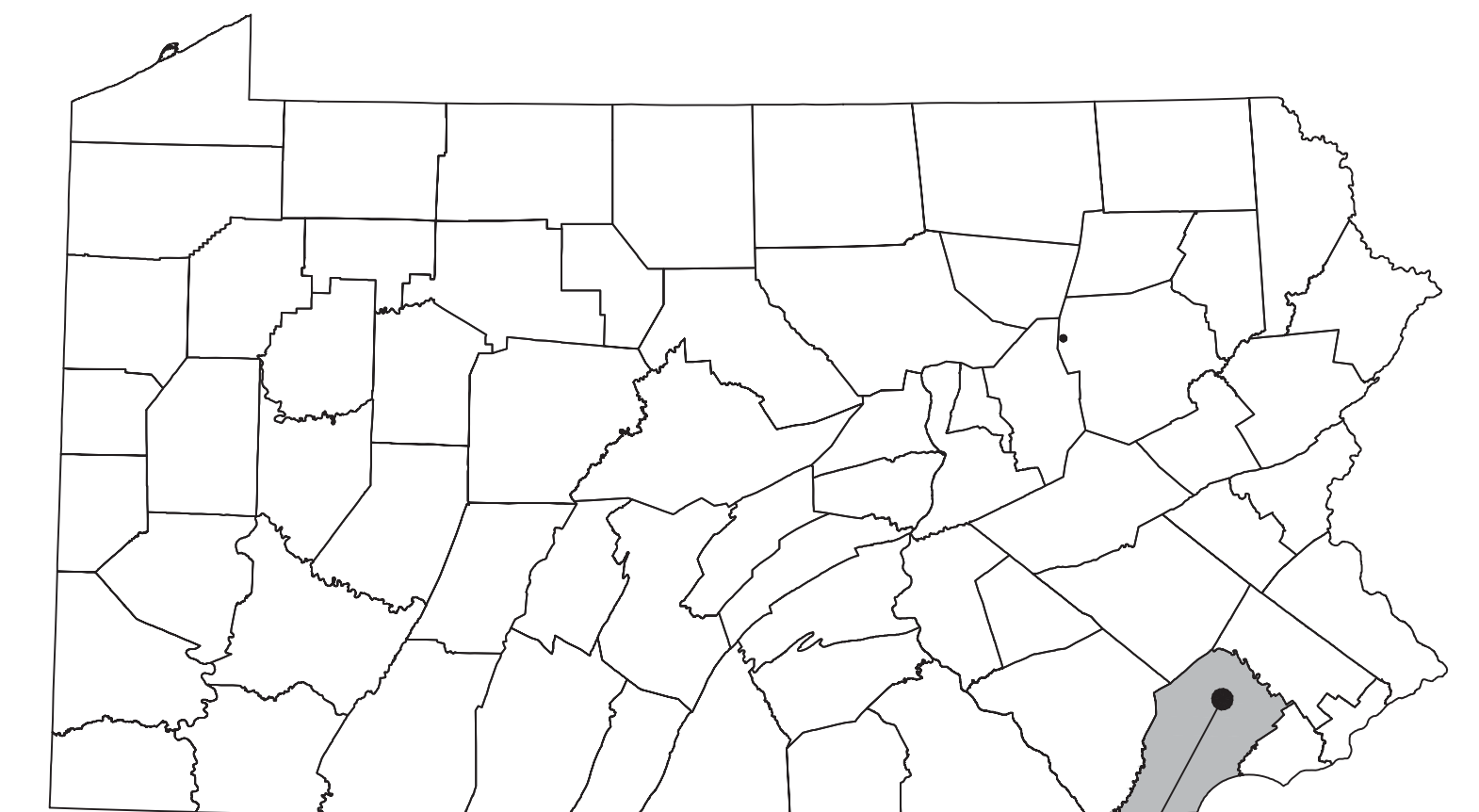
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC (TRANSCO), INDIRECTLY OWNED BY THE WILLIAMS COMPANIES, INC. (WILLIAMS) IS SEEKING AUTHORIZATION FROM THE FEDERAL ENERGY REGULATORY COMMISSION (FERC) UNDER SECTION 7(C) OF THE NATURAL GAS ACT AND PART 157 OF THE COMMISSIONS REGULATIONS, TO CONSTRUCT, OWN, OPERATE, AND MAINTAIN THE PROPOSED PROJECT FACILITIES ASSOCIATED WITH THE REGIONAL ENERGY ACCESS EXPANSION PROJECT (PROJECT). THE PROJECT IS AN EXPANSION OF TRANSCO'S EXISTING NATURAL GAS TRANSMISSION SYSTEM THAT WILL ENABLE TRANSCO TO PROVIDE AN INCREMENTAL 829,400 DEKATHERMS PER DAY (DTH/D) OF YEAR-ROUND FIRM TRANSPORTATION CAPACITY FROM THE MARCELLUS SHALE PRODUCTION AREA IN NORTHEASTERN PENNSYLVANIA (PA) TO MULTIPLE DELIVERY POINTS ALONG TRANSCO'S LEIDY LINE IN PA, TRANSCO'S MAINLINE AT THE STATION 210 ZONE 6 POOLING POINT IN MERCER COUNTY, NEW JERSEY (NJ) AND MULTIPLE DELIVERY POINTS IN TRANSCO'S ZONE 6 IN NJ, PA, AND MARYLAND (MD).

THE EXISTING COMPRESSOR STATION 200 COMPONENT OF THE PROJECT IS LOCATED IN EAST WHITELAND TOWNSHIP, CHESTER COUNTY. PROPOSED ARE COMPRESSOR STATION MODIFICATIONS TO CONNECT THE EXISTING TRANSCO MAINLINE A INTO SUCTION TO SUPPORT SOUTH FLOW.

THIS POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN HAS BEEN DEVELOPED FOR THE COMPRESSOR STATION 200 SITE. THE PCSM PLAN SHALL BE DESIGNED AND IMPLEMENTED TO BE CONSISTENT WITH THE PCSM PLAN UNDER 25 PA. CODE § 102.8 (RELATING TO PCSM REQUIREMENTS). THE WORK AND DISTURBED AREAS ARE LOCATED WITHIN TRANSCO PROPERTY, EXISTING EASEMENTS OR LEGALLY OBTAINED WORKSPACE. THE LIMIT OF DISTURBANCE (LOD) FOR THE COMPRESSOR STATION 200 SITE WILL BE APPROXIMATELY 3.16 ACRES. SUBJECT TO FERC'S CERTIFICATION OF THE PROJECT AND RECEIPT OF THE NECESSARY PERMITS AND AUTHORIZATIONS, TRANSCO ANTICIPATES CONSTRUCTION OF THE PROJECT TO START IN THIRD QUARTER 2022 TO MEET A PROPOSED IN-SERVICE DATE OF DECEMBER 1, 2023.



LOCATION MAP



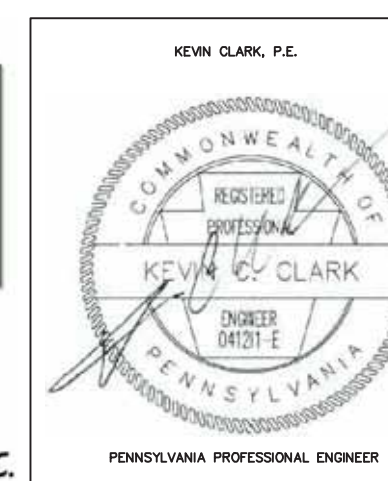
VICINITY MAP  
N.T.S.

SHEET INDEX	
SHEET NUMBER	DRAWING TITLE
1 OF 6	COVER
2 OF 6	EXISTING SITE CONDITIONS
3 OF 6	PCSM SITE PLAN
4 OF 6	NOTES
5-6 OF 6	DETAILS

RECEIVING WATERS		
NAME	DESIGNATED USE	EXISTING USE
VALLEY CREEK (EAST)	EV, MF	N/A
VALLEY CREEK (WEST)	CWF, MF	N/A

Call before you dig.  
1-800-242-1776 or **811**

PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH.



REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK. APP.
1	06/29/21	RWS	REVISED PER PADEP COMMENTS.		

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
REGIONAL ENERGY ACCESS EXPANSION PROJECT -  
COMPRESSOR STATION 200  
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN  
COVER  
EAST WHITELAND TWP., CHESTER COUNTY, PENNSYLVANIA

DRAWN BY: DRV	DATE: 03/31/21	ISSUED FOR BID:	SCALE:
CHECKED BY: RJN	DATE: 03/31/21	ISSUED FOR CONSTRUCTION:	REVISION:
APPROVED BY: KCC	DATE: 03/31/21	DRAWING NUMBER: 26-1000-70-28-D	SHEET 1 OF 6
WO: 1232813	RD: 304		



**EXISTING CONDITION NOTES/SOURCES**

- EXISTING ROADWAYS, CONTOURS, PROPERTY LINE, TREE LINE, ETC. ARE DERIVED FROM A FIELD SURVEY PERFORMED BY TRANSCO IN 2020.
- PROPERTY BOUNDARIES BASED EITHER ON TAX PARCEL INFORMATION PROVIDED BY TRANSCO. PROPERTY BOUNDARY LOCATIONS BASED ON TAX PARCEL INFORMATION ARE APPROXIMATE.
- PIPELINE ALIGNMENTS AND LIMITS OF DISTURBANCE PROVIDED BY TRANSCO.
- STREAM AND WETLAND BOUNDARIES BASED ON SURVEYS CONDUCTED BY WHM CONSULTING IN 2020.
- DATUM BASED ON PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD 83 NORTH ZONE, NAVD88, ELEVATION MSL, DERIVED FROM GPS OBSERVATION.

LEGEND		SOIL LEGEND	
	ESCP PERMIT BOUNDARY		C1A CONESTOGA SILT LOAM, 0 TO 3 PERCENT SLOPES
	LIMITS OF DISTURBANCE		Upld URBAN LAND-CONESTOGA COMPLEX, 0 TO 8 PERCENT SLOPES
	DELINEATED WETLAND		EXISTING STRUCTURE
	SOIL BOUNDARY / TYPE		EXISTING EDGE OF GRAVEL ROAD
	EXISTING TREELINE / TREE/SHRUB		EXISTING GRADE MAJOR CONTOURS (10' C.I.)
	PROPERTY LINE		EXISTING GRADE MINOR CONTOURS (2' C.I.)
	EXISTING LEDY / TGPL PIPELINES		TEST PIT LOCATION
	EXISTING FOREIGN PIPELINES		EXISTING WATER LINE
	EXISTING UTILITY POLE / TOWER		EXISTING SANITARY LINE
	EXISTING VALVE		EXISTING STORM SEWER
	EXISTING CULVERT		EXISTING TELEPHONE LINE
	EXISTING ELECTRIC LINE		EXISTING FIBER OPTIC LINE
	EXISTING UNDERGROUND ELECTRIC LINE		EXISTING UNDERGROUND CABLE LINE
	EXISTING GAS LINE		EXISTING STORM INLET
	EXISTING WATER LINE		EXISTING SANITARY MANHOLE
	EXISTING SANITARY LINE		EXISTING COMMUNICATION/ELECTRIC MANHOLE
	EXISTING STORM SEWER		EXISTING FIRE HYDRANT
	EXISTING TELEPHONE LINE		EXISTING POWER POLE
	EXISTING FIBER OPTIC LINE		EXISTING EASEMENT
	EXISTING UNDERGROUND CABLE LINE		EXISTING RIGHT-OF-WAY
	EXISTING STORM INLET		EXISTING FENCE
	EXISTING SANITARY MANHOLE		EXISTING WETLAND
	EXISTING COMMUNICATION/ELECTRIC MANHOLE		
	EXISTING FIRE HYDRANT		
	EXISTING POWER POLE		
	EXISTING EASEMENT		
	EXISTING RIGHT-OF-WAY		
	EXISTING FENCE		
	EXISTING WETLAND		

SCALE 1" = 70'

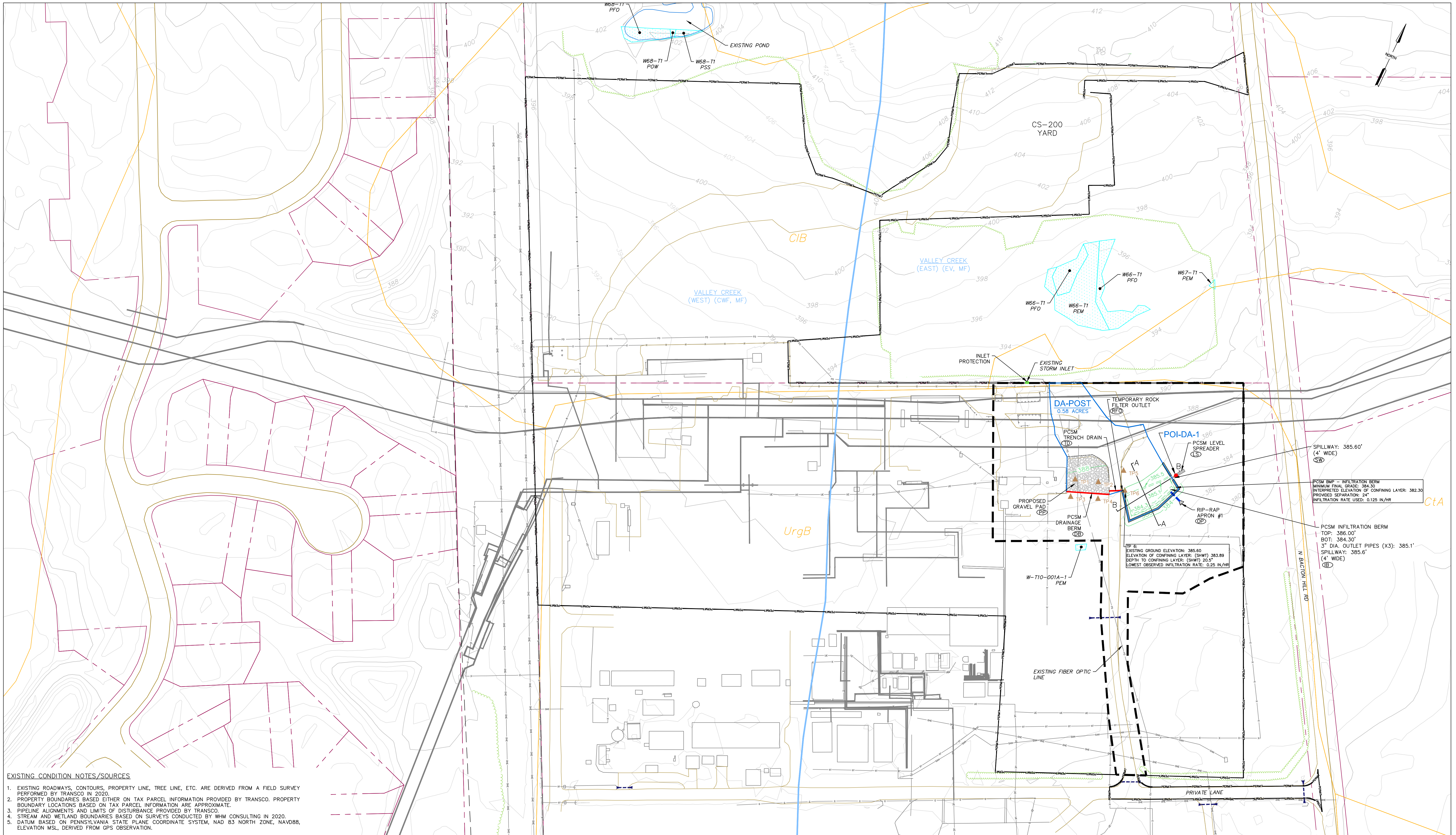
KEVIN CLARK, P.E.

PENNSYLVANIA PROFESSIONAL ENGINEER

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 REGIONAL ENERGY ACCESS EXPANSION PROJECT -  
 COMPRESSOR STATION 200  
 POST CONSTRUCTION STORMWATER MANAGEMENT PLAN  
 EXISTING CONDITIONS PLAN  
 EAST WHITELAND TWP., CHESTER COUNTY, PENNSYLVANIA

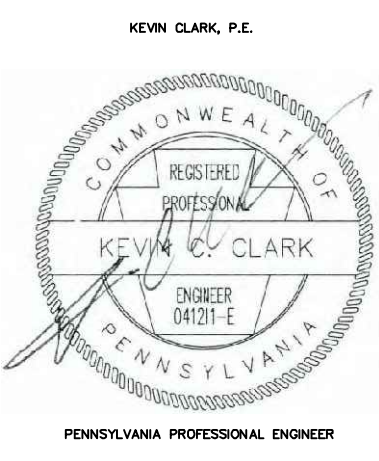
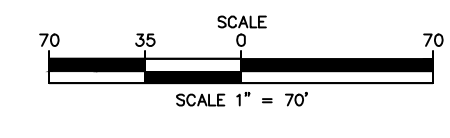
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	PERMIT BOUNDARY		C1A CONESTOGA SILT LOAM, 0 TO 3 PERCENT SLOPES
	LIMITS OF DISTURBANCE		UrgB URBAN LAND-CONESTOGA COMPLEX, 0 TO 8 PERCENT SLOPES
	DELINEATED WETLAND		EXISTING WATERSHED
	DELINEATED WETLAND		EXISTING STRUCTURE
	SOIL BOUNDARY / TYPE		EXISTING EDGE OF ROAD
	EXISTING TREELINE / TREE/SHRUB		PROPOSED GRAVEL
	PROPERTY LINE		EXISTING GRADE MAJOR CONTOURS (10' C.I.)
	EXISTING LEDY / TGPL PIPELINES		EXISTING GRADE MINOR CONTOURS (2' C.I.)
	EXISTING FOREIGN PIPELINES		PROPOSED GRADE MAJOR CONTOURS (10' C.I.)
	EXISTING UTILITY POLE / TOWER		PROPOSED GRADE MINOR CONTOURS (2' C.I.)
	EXISTING VALVE		TEST PIT LOCATION
	EXISTING CULVERT		
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	EXISTING EASEMENT		
	EXISTING RIGHT-OF-WAY		
	EXISTING FENCE		
	PROPOSED FENCE		



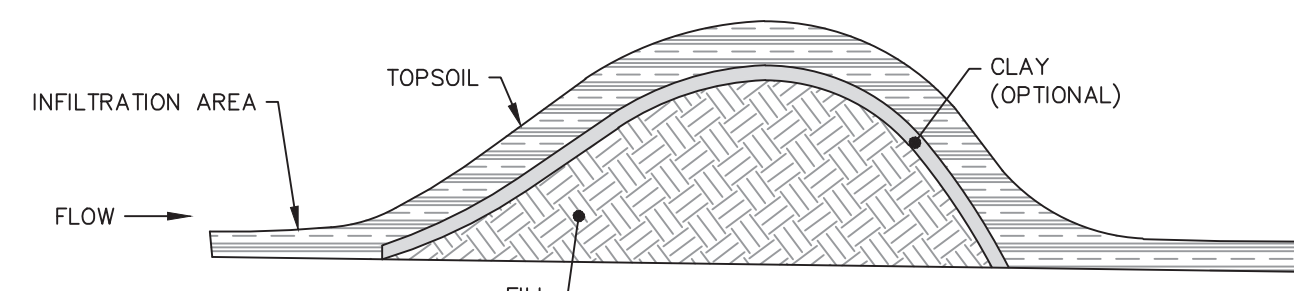
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 REGIONAL ENERGY ACCESS EXPANSION PROJECT -  
 COMPRESSOR STATION 200  
**POST CONSTRUCTION STORMWATER MANAGEMENT PLAN**  
 EAST WHITELAND TWP., CHESTER COUNTY, PENNSYLVANIA

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WO: 1232813	RID: 304		

SHEET 3 OF 6





IDEAL SUBSTRATE LAYERS FOR A BERM

**INFILTRATION BERM NOTES:**

AN INFILTRATION BERM IS A MOUND OF COMPACTED EARTH WITH SLOPING SIDES THAT IS USUALLY LOCATED ALONG A CONTOUR ON RELATIVELY GENTLY SLOPING SITES.

MAINTAIN A MINIMUM 2-FOOT SEPARATION TO BEDROCK AND SEASONALLY HIGH WATER TABLE. PROVIDE DISTRIBUTED INFILTRATION AREA (5:1 IMPERVIOUS AREA TO INFILTRATION AREA - MAXIMUM), SITE ON NATURAL, UNCOMPACTED SOILS WITH ACCEPTABLE CAPACITY.

THE BACK OF THE BERM SHALL BE LINED WITH SC150BN LINING WITH A STAPLE D PATTERN AND SHALL EXTEND AT LEAST 10 FT BEYOND THE TOE OF THE BERM.

BERMS SHALL HAVE SIDE SLOPES OF 3:1.

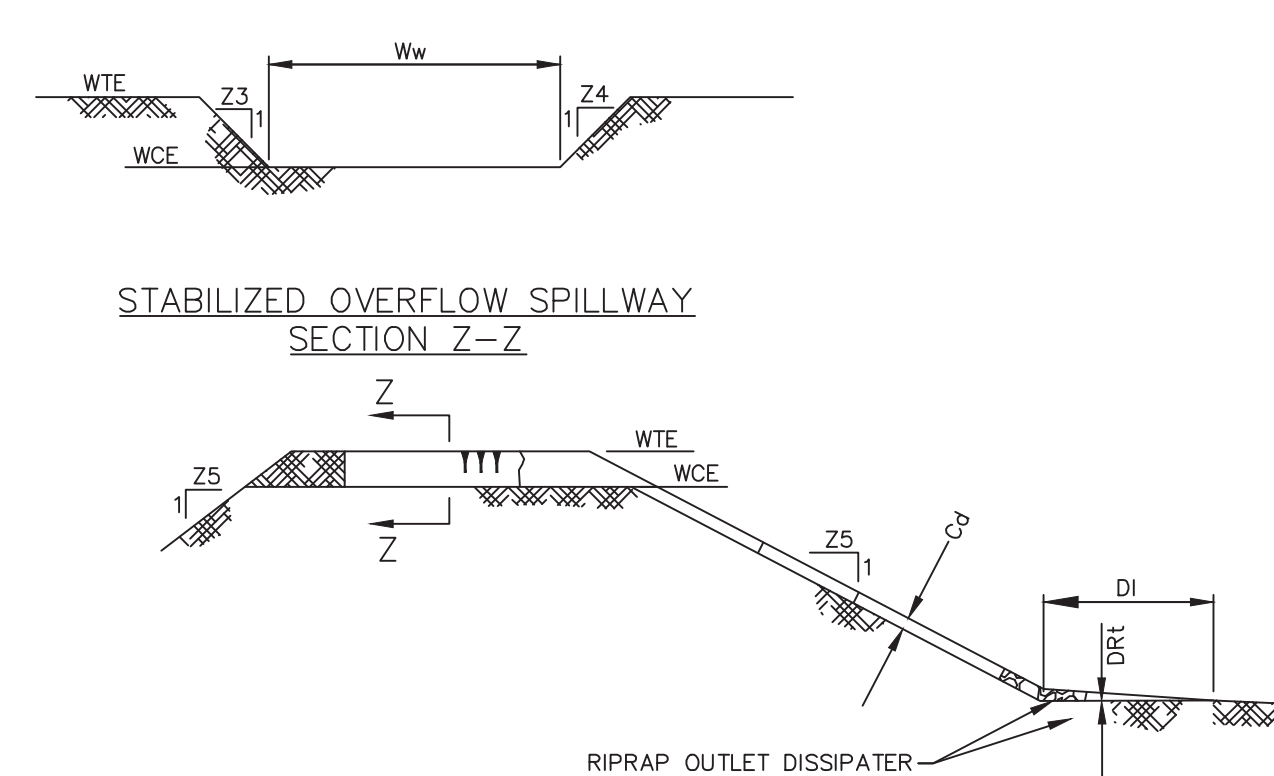
THE CREST OF THE BERM SHOULD BE LOCATED NEAR ON EDGE OF THE BERM, RATHER THAN IN THE MIDDLE, TO ALLOW FOR A MORE NATURAL, ASYMMETRICAL SHAPE.

BERMS SHOULD BE VEGETATED USING SEED MIXTURE 1 PLUS 3 FROM TABLE 11.5.

INFILTRATION BERM No.	LENGTH OF BERM (ft) (L)	HEIGHT OF BERM (ft) (H)	BOTTOM ELEV. (ft) (B.E.)	TOP OF BERM ELEV. (ft) (T.E.)	SHWT BELOW GROUND (in)	BEDROCK BELOW GROUND (in)	SPILLWAY ELEV. (ft)	TOP SPILLWAY WIDTH (ft)
INFILTRATION BERM 1	186.6	1.70	384.30	386.00	24	N/A	385.60	4

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PENNSYLVANIA  
 TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
 STANDARD ENVIRONMENTAL DETAIL  
 INFILTRATION BERM  
 IB

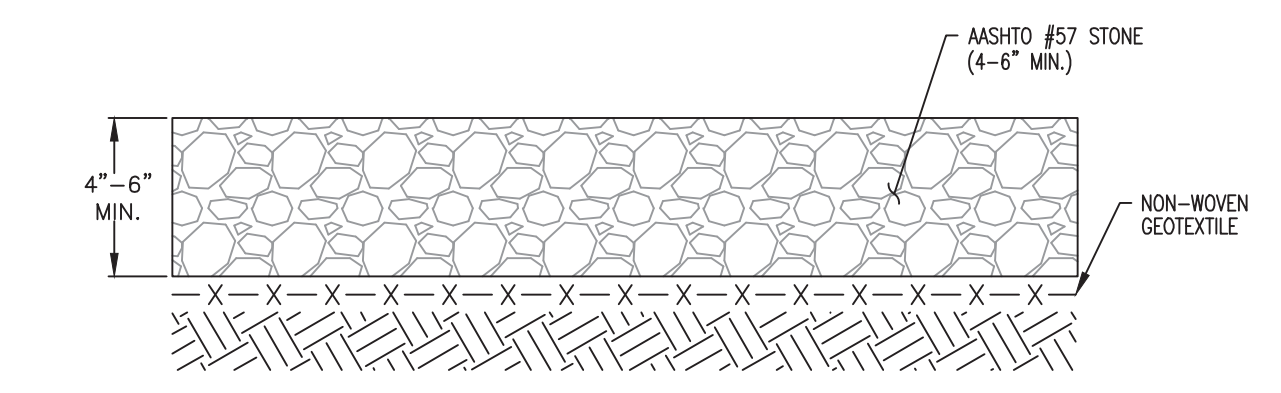


STABILIZED OVERFLOW SPILLWAY  
 PA DEP

BMP	WEIR		LINING	CHANNEL	DISSIPATOR				
	Z3 (ft)	Z4 (ft)			TOP ELEV. WTE (ft)	CREST ELEV. WCE (ft)	WIDTH Ww (ft)	RIPRAP SIZE (R-)	RIPRAP THICK. LRT (in)
INFILTRATION BERM	2	2	386.00	385.60	4	N/A	(SEE LEVEL SPREADER DETAIL)		

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PENNSYLVANIA  
 TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
 STANDARD ENVIRONMENTAL DETAIL  
 STABILIZED OVERFLOW SPILLWAY  
 SW

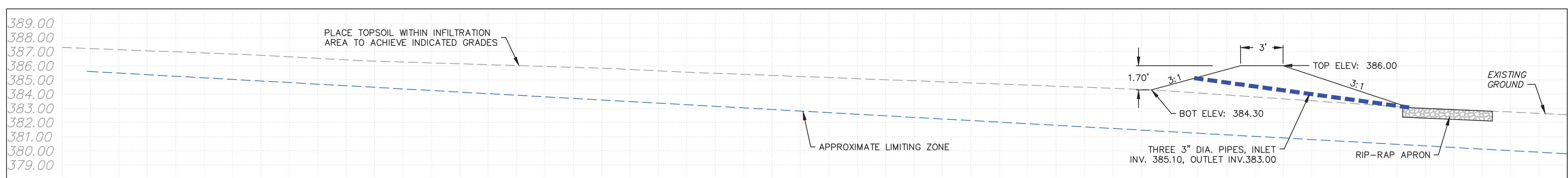


**NOTES:**

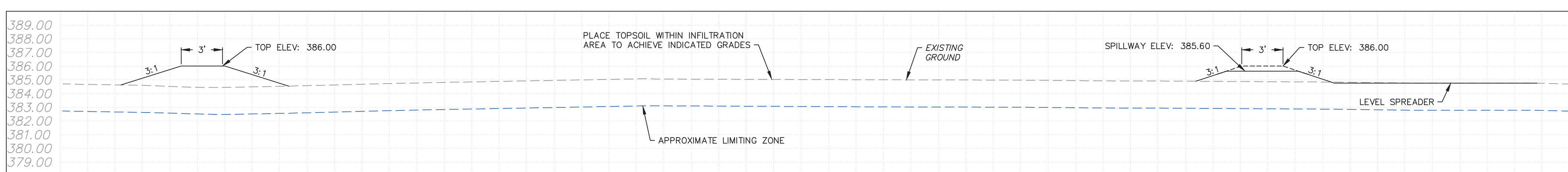
- CROSS SECTION TO BE APPLIED TO DRY AREAS WITHOUT DRAINAGE CONCERNS.
- EXISTING MATERIAL TO BE REMOVED AND STOCKPILED IN AN APPROVED LOCATION ONLY.
- EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION & SEDIMENT POLLUTION CONTROL PLAN FOR THE PROJECT.
- GRADING AND CROSS SLOPES VARY BY EXISTING CONDITIONS; SEE SPECIFIC DESIGN AND PROFILE FOR MORE DETAIL.
- WITHIN EXTENTS OF GRADING FOR PERMANENT ACCESS ROADS AND VALVE SITES, COMPACT ALL SOIL FILL/BACKFILL AND COARSE AGGREGATE WITH FINES TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. CONTRACTOR SHALL UTILIZE ADEQUATELY SIZED AND CONFIGURED EQUIPMENT TO ACHIEVE SPECIFIED COMPACTION.
- AS DIRECTED BY ENGINEER AND APPROVED BY OWNER, EXCAVATE AND STABILIZE SOFT SPOTS, UNSATISFACTORY SOILS AND AREAS OF EXCESSIVE PUMPING OR RUTTING.
- PROOF-ROLLING OF SUBGRADE MAY BE REQUIRED TO DETERMINE PROPER COMPACTION BY OWNER.

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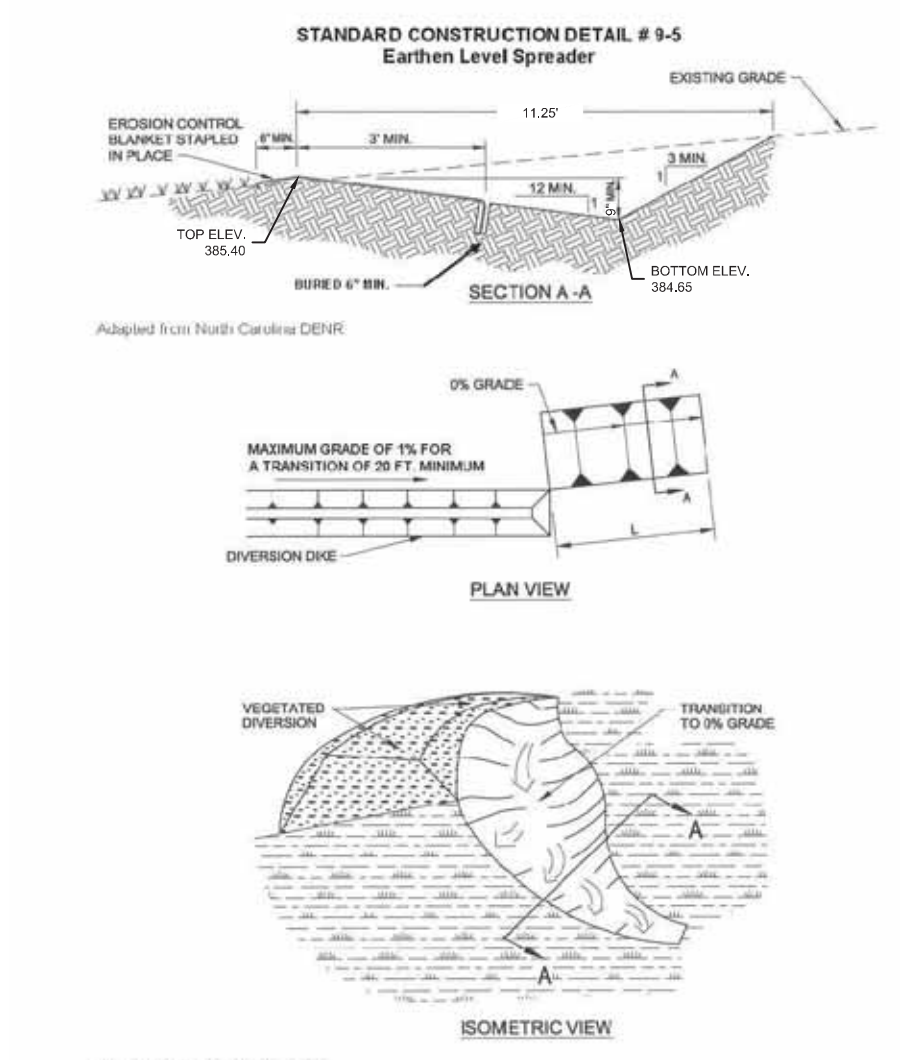
PENNSYLVANIA  
 TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
 STANDARD ENVIRONMENTAL DETAIL  
 PROPOSED GRAVEL PAD  
 PP



SECTION A-A  
 NOT TO SCALE



SECTION B-B  
 NOT TO SCALE



**NOTES:**

- LEVEL SPREADER SHALL BE CONSTRUCTED AND MAINTAINED LEVEL. SMALL VARIATIONS IN HEIGHT ON THE DOWNSTREAM LIP SHALL BE LESS THAN 0.05% SLOPE ALONG THE WEIR.
- VARIATIONS IN EXISTING GROUND ELEVATION SHALL BE LESS THAN 4 INCHES.
- CLEAR DEBRIS (I.E. EARTH, WOOD, AND OTHER ORGANIC MATTER) LOCATED WITHIN 15 FEET DOWN SLOPE OF THE LEVEL SPREADER THAT MAY ACCUMULATE.
- TO PRESERVE INFILTRATION CAPACITY, THE UNDERLYING SOILS SHOULD REMAIN UNDISTURBED, UNCOMPACTED, AND PROTECTED FROM HEAVY EQUIPMENT.

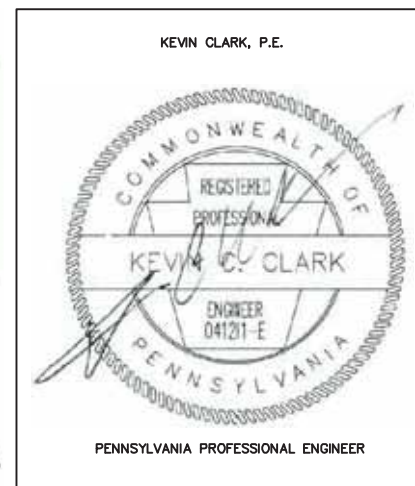
**OPERATION & MAINTENANCE:**

- LEVEL SPREADER SHALL BE MONITORED FOR 2 YEARS ON A QUARTERLY BASIS AND SEMI-ANNUALLY THEREAFTER.
- INSPECTIONS SHALL BE MADE FOLLOWING RAINFALL EVENTS EXCEEDING 1 INCH.
- MONITORING INCLUDES BOTH THE LEVEL SPREADER AND THE DOWN SLOPE AREA UP TO AND INCLUDING THE RECEIVING STREAM.

LEVEL SPREADER  
 PERMANENT STORMWATER MEASURE  
 LS

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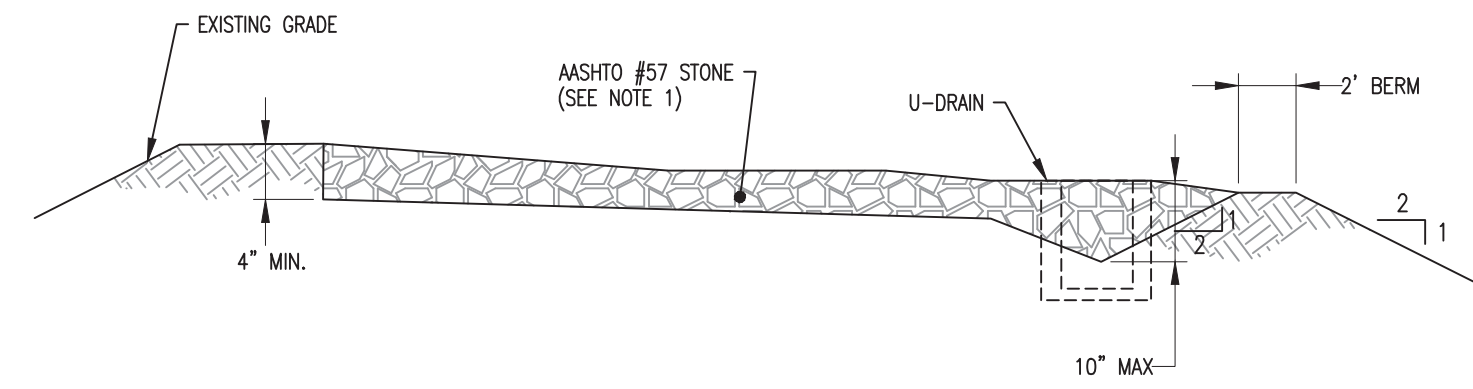
PENNSYLVANIA  
 TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
 PROJECT SPECIFIC DETAIL  
 LEVEL SPREADER  
 LS



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 W.O. 1232813 RID: 304 DRAWING NUMBER: 26-1000-70-28-D SHEET 5 OF 6



- NOTE:
- PAD MAY BE TOPPED WITH AASHTO #57 AGGREGATE TO PROVIDE A DRIVING SURFACE.

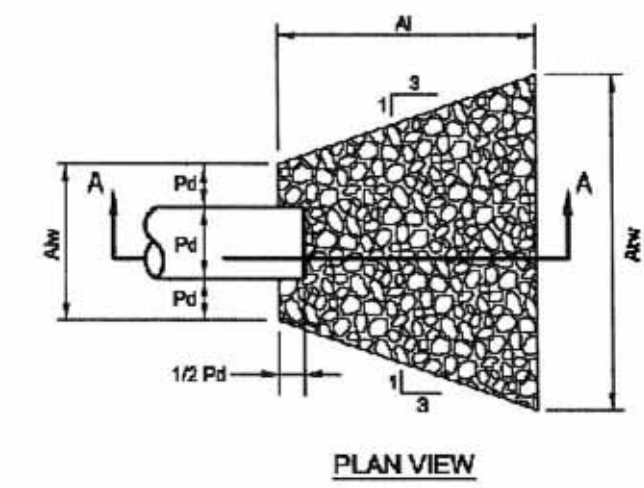
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
DIVERSION BERM DETAIL

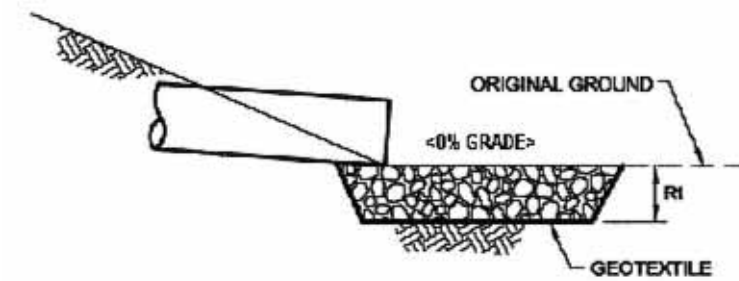
PENNSYLVANIA



(DB)



PLAN VIEW



SECTION A - A

NO.	PIPE DIA. Do (IN)	TAIL WATER COND. (Max or Min)	MAN. FOR PIPE	PIPE SLOPE (FT/FT)	Q (CFS)	V* (FPS)	RIPRAP SIZE	Rt (in)	Al (ft)	Atw (ft)	Atw (ft)
RA1	9	MIN	0.02	0.11	0.41	2.77	R-3	9	6	2.25	8.25

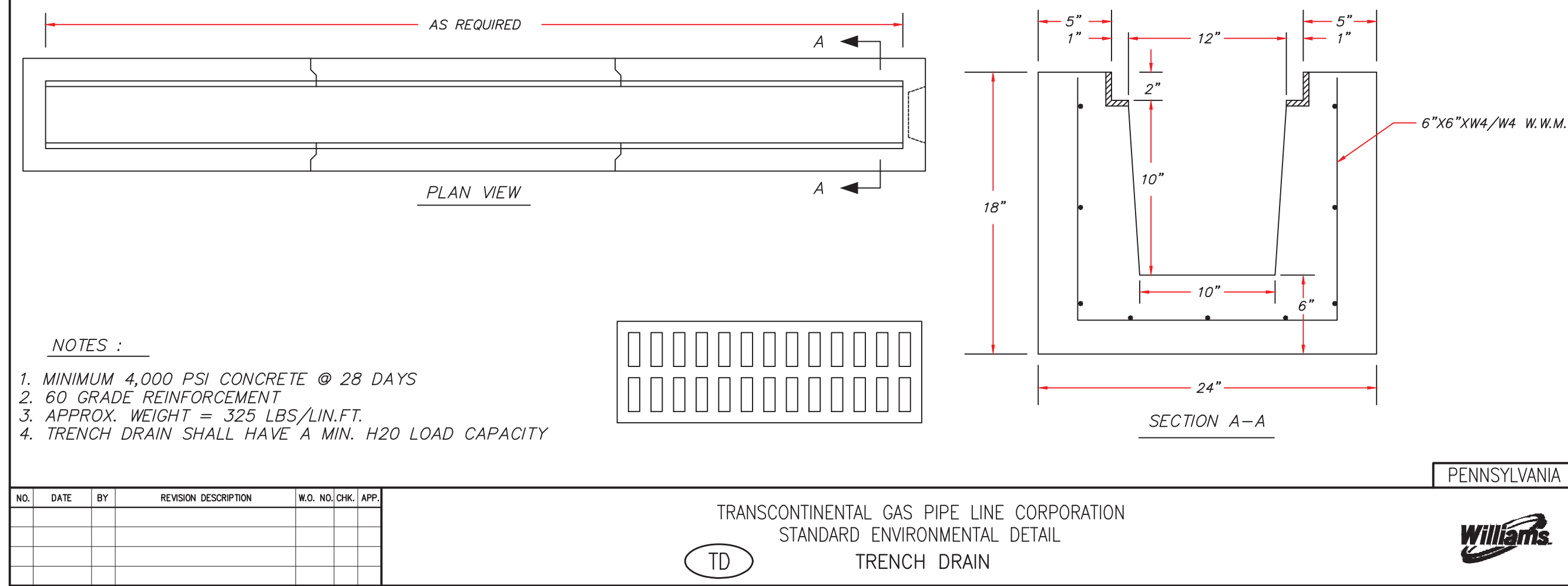
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TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL

PENNSYLVANIA



(OP)



- NOTES:
- MINIMUM 4,000 PSI CONCRETE @ 28 DAYS
  - 60 GRADE REINFORCEMENT
  - APPROX. WEIGHT = 325 LBS/LIN.FT.
  - TRENCH DRAIN SHALL HAVE A MIN. H2O LOAD CAPACITY

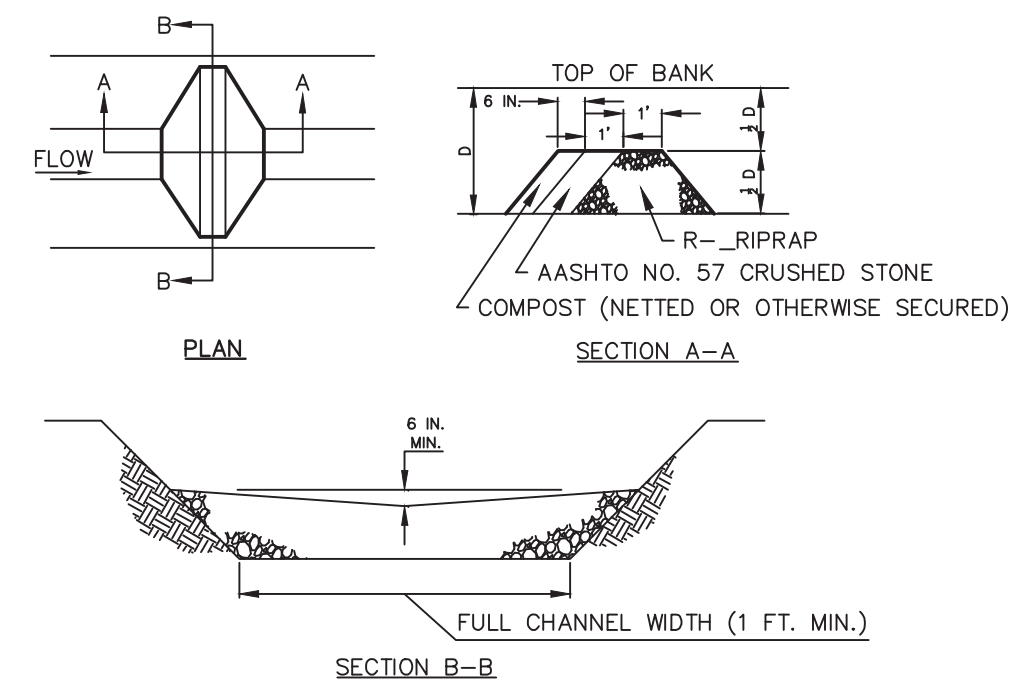
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TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL  
TRENCH DRAIN

PENNSYLVANIA



(TD)



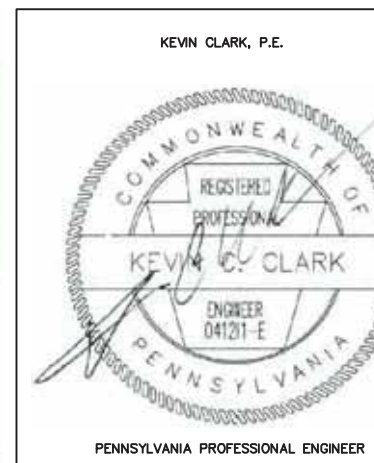
- NOTES:
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE HEIGHT OF THE FILTERS.
  - IMMEDIATELY UPON STABILIZATION OF EACH CHANNEL, REMOVE ACCUMULATED SEDIMENT, REMOVE ROCK FILTER, AND STABILIZE DISTURBED AREAS.

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO./CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL  
ROCK FILTER OUTLET



(RFO)



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