

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

**REGIONAL ENERGY ACCESS EXPANSION PROJECT  
 COMPRESSOR STATION 515**

BUCK TOWNSHIP, LUZERNE COUNTY, PENNSYLVANIA

APRIL 2021  
 REVISED MARCH 2022

PROJECT OWNER/APPLICANT

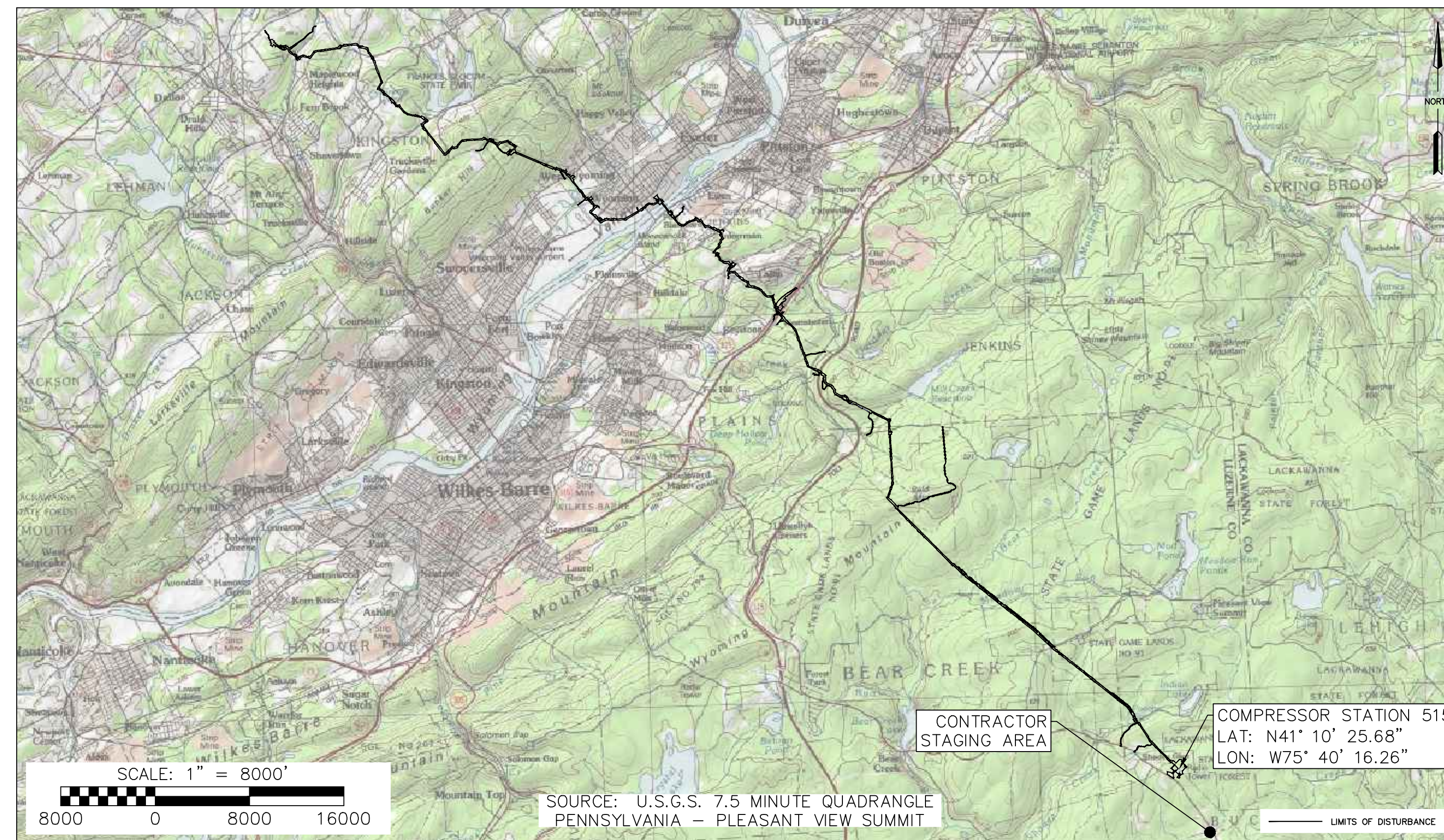
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 HOUSTON, TX 77056  
 CONTACT: JOSEPH DEAN, MANAGER PERMITTING

PLAN PREPARER / ENGINEER

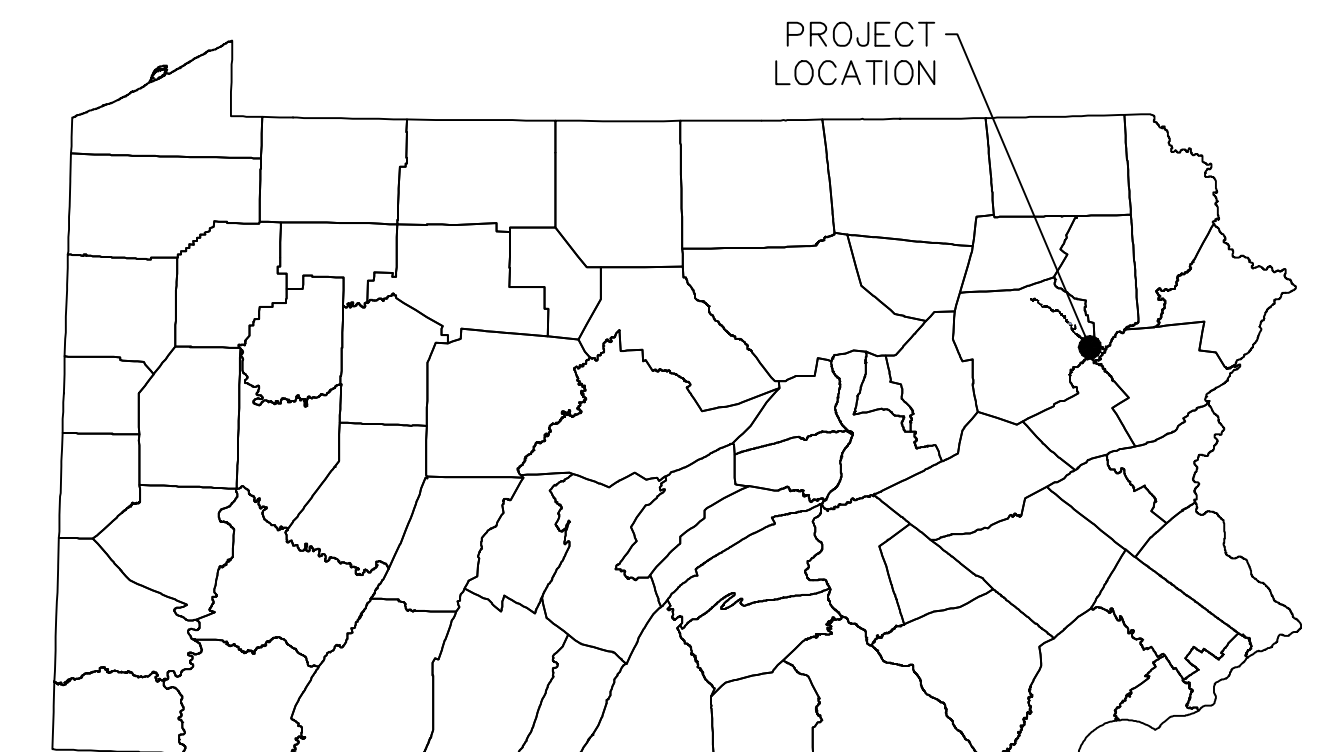
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LOCATION MAP



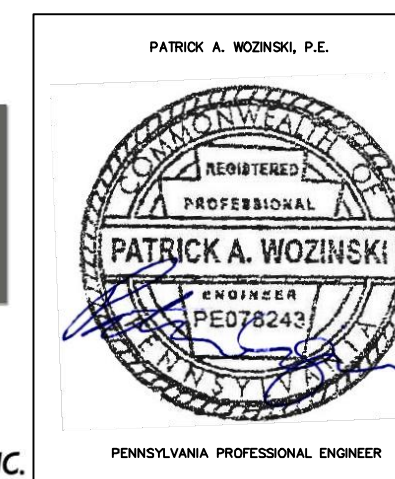
VICINITY MAP  
 N.T.S.

SHEET INDEX	
SHEET NUMBER	DRAWING TITLE
1 OF 6	COVER
2 OF 6	EXISTING CONDITIONS PLAN
3 OF 6	POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
4 OF 6	NOTES
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RECEIVING WATERS			
NAME	DESIGNATED USE	EXISTING USE	PFBC CLASSIFICATION
TRIB 04285 SHADES CREEK	HQ-CWF, MF	-	CLASS A WILD TROUT
STONY RUN	HQ-CWF, MF	-	NATURALLY PRODUCING WILD TROUT STREAM

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.

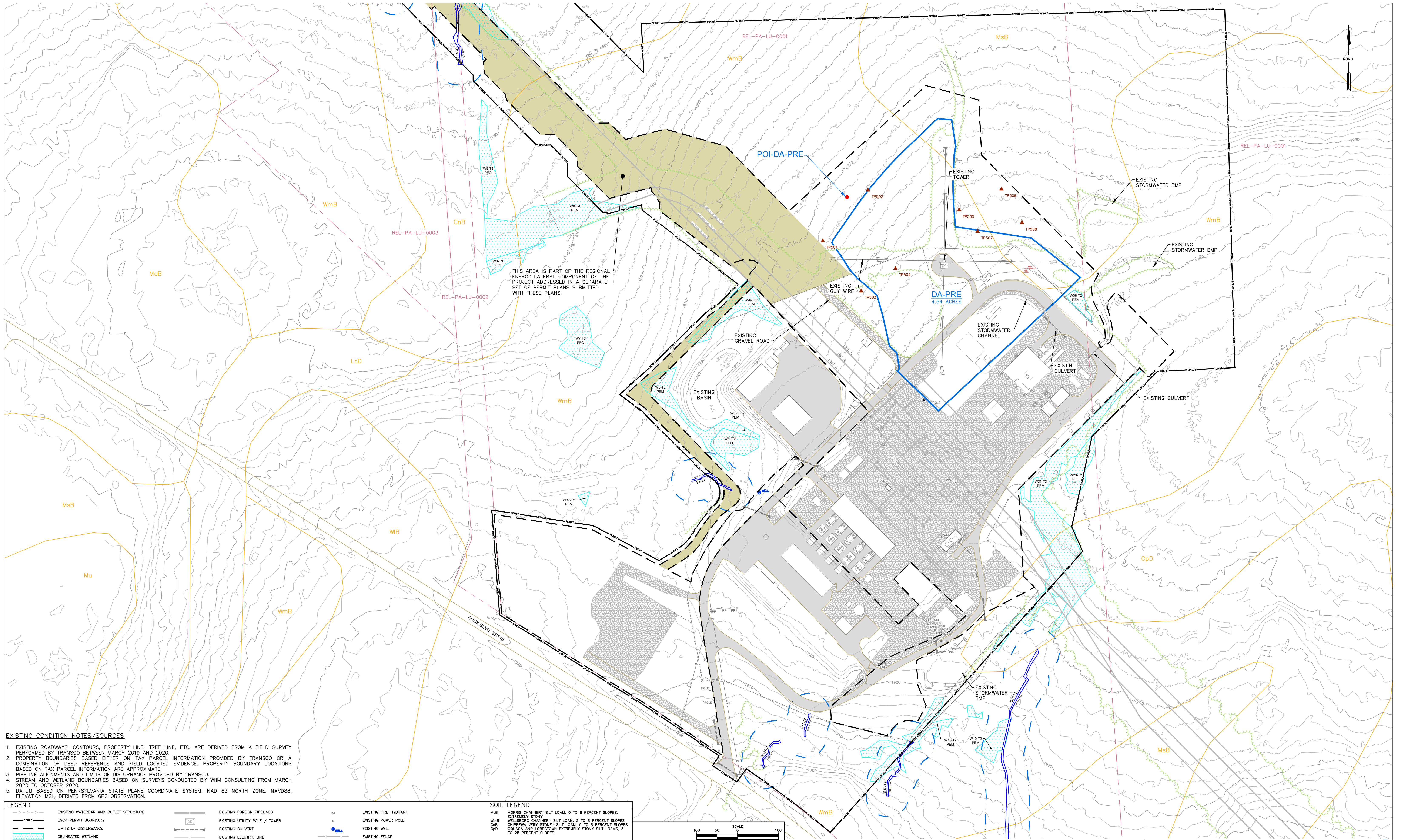


REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
1	06/29/21	RHM	REVISED PER PADEP COMMENTS.			
2	03/01/22	RHM	RESPONSE TO PADEP TECHNICAL DEFICIENCY LETTER			

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
 REGIONAL ENERGY ACCESS EXPANSION PROJECT  
 COMPRESSOR STATION 515  
 POST CONSTRUCTION STORMWATER MANAGEMENT PLAN  
**COVER**  
 BUCK TOWNSHIP, LUZERNE COUNTY, PENNSYLVANIA

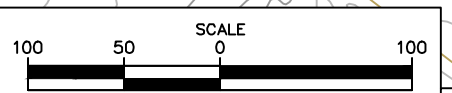


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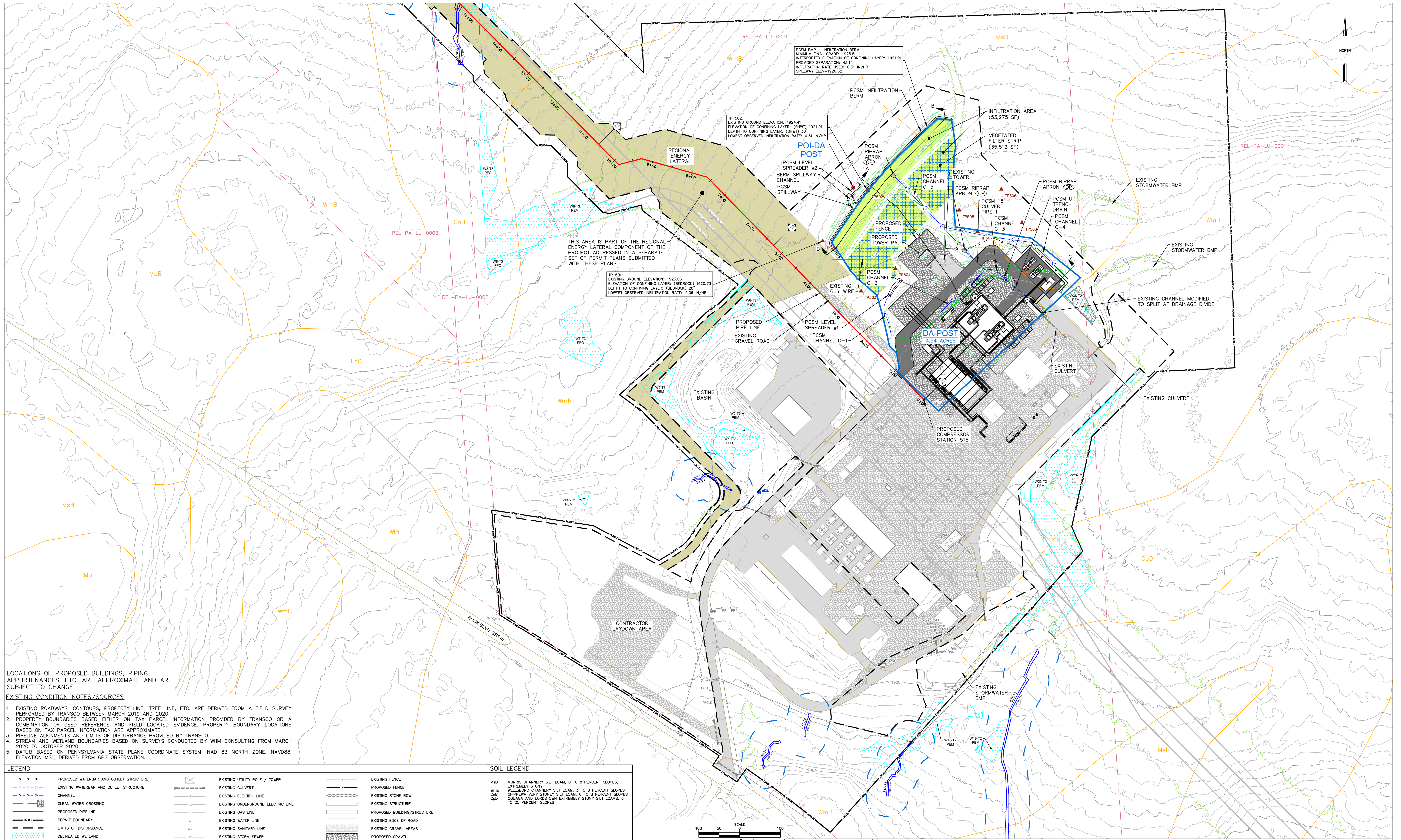
- EXISTING CONDITION NOTES/SOURCES**
- EXISTING ROADWAYS, CONTOURS, PROPERTY LINE, TREE LINE, ETC. ARE DERIVED FROM A FIELD SURVEY PERFORMED BY TRANSCO BETWEEN MARCH 2019 AND 2020.
  - PROPERTY BOUNDARIES BASED EITHER ON TAX PARCEL INFORMATION PROVIDED BY TRANSCO OR A COMBINATION OF DEED REFERENCE AND FIELD LOCATED EVIDENCE. 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 FROM MARCH 2020 TO OCTOBER 2020.
  - DATUM BASED ON PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NAD 83 NORTH ZONE, NAVD88, ELEVATION MSL, DERIVED FROM GPS OBSERVATION.

LEGEND		SOIL LEGEND	
	EXISTING WATERBAR AND OUTLET STRUCTURE		EXISTING FOREIGN PIPELINES
	ESCP PERMIT BOUNDARY		EXISTING UTILITY POLE / TOWER
	LIMITS OF DISTURBANCE		EXISTING CULVERT
	DELINEATED WETLAND		EXISTING ELECTRIC LINE
	DELINEATED WATERWAY / STREAM (TOP OF BANK)		EXISTING UNDERGROUND ELECTRIC LINE
	STREAM FLOW DIRECTION		EXISTING GAS LINE
	RIPARIAN BUFFER		EXISTING WATER LINE
	50' FEMA FLOODWAY		EXISTING SANITARY LINE
	FEMA 100-YEAR FLOODPLAIN		EXISTING STORM SEWER
	SOIL BOUNDARY / TYPE		EXISTING TELEPHONE LINE
	EXISTING TREE LINE / TREE / SHRUB		EXISTING FIBER OPTIC LINE
	PROPERTY LINE		EXISTING UNDERGROUND CABLE LINE
	EXISTING LEIDY / TOPLI PIPELINES		EXISTING STORM INLET
	EXISTING GRADE MAJOR CONTOURS (10' C.I.)		EXISTING SANITARY MANHOLE
	EXISTING GRADE MINOR CONTOURS (2' C.I.)		EXISTING COMMUNICATION/ELECTRIC MANHOLE
			EXISTING FIRE HYDRANT
			EXISTING POWER POLE
			EXISTING WELL
			EXISTING FENCE
			EXISTING STONE ROW
			EXISTING STRUCTURE
			EXISTING EDGE OF ROAD
			EXISTING GRAVEL AREAS
			EXISTING PAVEMENT
			TEST PIT/INFILTRATION TEST LOCATION (2020)
			DELINEATED DRAINAGE AREA



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W.O. NO: 1222639	RID: 305		



LOCATIONS OF PROPOSED BUILDINGS, PIPING, APPURTENANCES, ETC. ARE APPROXIMATE AND ARE SUBJECT TO CHANGE.

**EXISTING CONDITION NOTES/SOURCES**

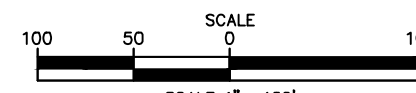
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**LEGEND**

<ul style="list-style-type: none"> <li>PROPOSED WATERBAR AND OUTLET STRUCTURE</li> <li>EXISTING WATERBAR AND OUTLET STRUCTURE</li> <li>CHANNEL</li> <li>CLEAN WATER CROSSING</li> <li>PROPOSED PIPELINE</li> <li>PERMIT BOUNDARY</li> <li>LIMITS OF DISTURBANCE</li> <li>DELINEATED WETLAND</li> <li>DELINEATED WATERWAY / STREAM (TOP OF BANK)</li> <li>STREAM FLOW DIRECTION</li> <li>RIPARIAN BUFFER</li> <li>50'/FEMA FLOODWAY</li> <li>FEMA 100-YEAR FLOODPLAIN</li> <li>SOIL BOUNDARY / TYPE</li> <li>EXISTING TREELINE / TREE/SHRUB</li> <li>PROPERTY LINE</li> <li>EXISTING LEADY / TGPL PIPELINES</li> <li>EXISTING FOREIGN PIPELINES</li> </ul>	<ul style="list-style-type: none"> <li>EXISTING UTILITY POLE / TOWER</li> <li>EXISTING CULVERT</li> <li>EXISTING ELECTRIC LINE</li> <li>EXISTING UNDERGROUND ELECTRIC LINE</li> <li>EXISTING GAS LINE</li> <li>EXISTING WATER LINE</li> <li>EXISTING SANITARY LINE</li> <li>EXISTING STORM SEWER</li> <li>EXISTING TELEPHONE LINE</li> <li>EXISTING FIBER OPTIC LINE</li> <li>EXISTING UNDERGROUND CABLE LINE</li> <li>EXISTING STORM INLET</li> <li>EXISTING SANITARY MANHOLE</li> <li>EXISTING COMMUNICATION/ELECTRIC MANHOLE</li> <li>EXISTING FIRE HYDRANT</li> <li>EXISTING POWER POLE</li> <li>EXISTING WELL</li> </ul>	<ul style="list-style-type: none"> <li>EXISTING FENCE</li> <li>PROPOSED FENCE</li> <li>EXISTING STONE ROW</li> <li>EXISTING STRUCTURE</li> <li>PROPOSED BUILDING/STRUCTURE</li> <li>EXISTING EDGE OF ROAD</li> <li>EXISTING GRAVEL AREAS</li> <li>PROPOSED GRAVEL</li> <li>EXISTING PAVEMENT</li> <li>PROPOSED PERMANENT ROAD</li> <li>EXISTING GRADE MAJOR CONTOURS (10' C.I.)</li> <li>EXISTING GRADE MINOR CONTOURS (2' C.I.)</li> <li>PROPOSED GRADE MAJOR CONTOURS (10' C.I.)</li> <li>PROPOSED GRADE MINOR CONTOURS (2' C.I.)</li> <li>TEST PIT/INFILTRATION TEST LOCATION (2020)</li> <li>DELINEATED DRAINAGE AREA</li> <li>PROPOSED INFILTRATION AREA</li> <li>PROPOSED VEGETATED FILTER STRIP</li> </ul>
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**SOIL LEGEND**

Msb	MORRIS CHANNERY SILT LOAM, 0 TO 8 PERCENT SLOPES, EXTREMELY STONY
WmB	WELLSBORO CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES, CHIFFERA VERY STONEY SILT LOAM, 0 TO 8 PERCENT SLOPES
CmB	CHIFFERA VERY STONEY SILT LOAM, 0 TO 8 PERCENT SLOPES
OpD	QUAGA AND LORSDOWN EXTREMELY STONY SILT LOAMS, 8 TO 25 PERCENT SLOPES



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RESOLUTION TO SOIL LIMITATIONS

- TRANSCO PROPOSES THE FOLLOWING RESOLUTIONS TO COMPENSATE FOR SOIL LIMITATIONS SUMMARIZED IN TABLE 3 ABOVE.
1. TO OFFSET THE CAVING OF CUTBANKS, TRENCHING OPERATIONS WILL BE CONDUCTED IN ACCORDANCE WITH THE OSHA TECHNICAL MANUAL FOR TRENCHING.
2. PREVENTATIVE COATINGS SHALL BE USED TO PREVENT CORROSION OF CONCRETE AND/ OR STEEL.
3. WHEN BEDROCK IS ENCOUNTERED IT WILL BE REMOVED BY MECHANICAL METHODS OR BLASTING.
4. PRECAUTIONS WILL BE TAKEN TO PREVENT SOIL FAILURE...
5. FOR SOILS PRONE TO FLOODING, SLOW PERCOLATION, PONDING WETNESS, HAVE A SEASONAL HIGH WATER TABLE, OR ARE HYDRIC...
6. SOILS THAT HAVE THE POTENTIAL TO SWELL, SHRINK, OR HEAVE...
7. IN SOILS THAT ARE A POOR SOURCE OF TOPSOIL...
8. FOR THOSE SOILS THAT ARE EASILY ERODIBLE...

TABLE 2-SOILS MAPPING UNITS WITHIN LIMITS OF DISTURBANCE. Table with columns for SOIL MAPPING UNIT, SOIL SERIES, and various soil types like MORRIS CHANNERY SILT LOAM, OQUGA AND LORDSTOWN EXTREMELY STONY SILT LOAMS, etc.

TABLE 3-LIMITATIONS OF PENNSYLVANIA SOILS PERTAINING TO EARTH DISTURBANCE PROJECTS (EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL- TECHNICAL GUIDANCE NUMBER 363-3134-008/PAGE 401. Table with columns for SOIL NAME, SOIL WITH SLOPE CLASS, CUTBANKS CAVE, CORROSIVE TO CONCRETE/STEEL, DROUGHT, EASILY ERODIBLE, FLOODING, DEPTH TO SATURATED ZONE, etc.

CHARACTERIZATIONS OF EARTH DISTURBANCE ACTIVITIES, INCLUDING PAST, PRESENT AND PROPOSED LAND USES

THE LIMIT OF DISTURBANCE (LOD) FOR COMPRESSOR STATION 515 WILL BE APPROXIMATELY 24.83 ACRES. CONSTRUCTION ACTIVITIES AT COMPRESSOR STATION 515 WILL INVOLVE THE INSTALLATION A GRAVEL PAD, SEVERAL BUILDINGS, A NEW COMMUNICATIONS TOWER, PROPOSED BMPS AND OTHER COMPRESSOR STATION MODIFICATIONS...

BMP DESCRIPTION NARRATIVE

CHANNELS, CULVERTS AND AN INFILTRATION BERM WILL BE INSTALLED ACROSS THE DEVELOPED AREA TO CONVEY THE NET INCREASE IN VOLUME BETWEEN THE PRE- AND POST-DEVELOPMENT 2-YEAR STORM EVENTS AND MITIGATE THE INCREASE (PRE-POST DEVELOPMENT) IN PEAK RUNOFF FOR THE 1-, 2-, 10-, 25-, 50-, AND 100-YEAR STORM EVENTS...

BMP INSTALLATION SEQUENCE

- THE PCSM BMPS SHOULD BE INSTALLED IN A MANNER DESIGNED TO:
1. PROTECT BMP AREAS ASSOCIATED WITH INFILTRATION FROM COMPACTION PRIOR TO AND DURING INSTALLATION.
2. MAINTAIN PROPER EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
3. SELECT PLANTS THAT ARE WELL ADAPTED TO THE SPECIFIC SITE CONDITIONS...
4. ALL TEMPORARY E&S BMPS WILL BE REMOVED FOLLOWING SITE STABILIZATION...
5. CONSTRUCT THE INFILTRATION BERM AND VEGETATED FILTER STRIP IN ACCORDANCE WITH THE PLANS...
6. STARTING DOWNSTREAM AT THE INFILTRATION BERM, CONSTRUCT PCSM CHANNEL C5, C4, CULVERT 1, PCSM CHANNELS C1 AND LEVEL SPREADER, C2, AND C3 AS SHOWN...
7. ALL INSTALLED BMPS WILL BE MONITORED UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
8. FOLLOW LONG TERM OPERATION AND MAINTENANCE GUIDELINES DISCUSSED BELOW.

\*PORTIONS OF THE BMP INSTALLATION SEQUENCE DENOTED WITH AN ASTERISK (\*) ABOVE ARE CRITICAL STAGES AS DISCUSSED ON THIS SHEET.

SEEDING AND MULCHING:

THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER CONSTRUCTION IS COMPLETED. ESTABLISHMENT OF TEMPORARY COVER MUST TAKE PLACE WITHIN 4 DAYS OF CESSATION OF WORK. TEMPORARY EROSION AND SEDIMENTATION CONTROL BMPS CAN BE REMOVED WHEN THE SITE MEETS FINAL STABILIZATION...

TEMPORARY REVEGETATION

AFTER GRADING AND EXCAVATION IS COMPLETED WITHIN AN AREA, VEGETATION WILL BE SOWN PROMPTLY AFTER CEASING EARTHWORK IN THOSE AREAS. HAY, STRAW MULCH, OR OTHER SIMILAR MATERIAL WILL BE APPLIED TO NEWLY SEEDS AREAS TO PROTECT AGAINST EROSION UNTIL THE VEGETATION IS ESTABLISHED...

PERMANENT SEEDING AND MULCHING

TOPSOIL WILL BE REPLACED PRIOR TO STABILIZATION. DISTURBED AREAS SHALL BE SEEDS WITH A MIXTURE AS OUTLINED IN THE DETAILS PAGES OF THE EROSION AND SEDIMENT CONTROL PLAN SET. APPLY LIME AND FERTILIZER IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS OR AS OUTLINED IN THE BELOW TABLE...

TABLE 11.2 SOIL AMENDMENT APPLICATION RATE EQUIVALENTS. Table with columns for SOIL AMENDMENT, PERMANENT SEEDING APPLICATION RATE (PER ACRE, PER 1,000 SF, PER 1,000 SY), and NOTES.

ADAPTED FROM PENN STATE, "EROSION CONTROL AND CONSERVATION PLANTINGS ON NONCROPLAND"

NOTE: A COMPOST BLANKET WHICH MEETS THE STANDARDS OF THIS CHAPTER MAY BE SUBSTITUTED FOR THE SOIL AMENDMENTS SHOWN IN TABLE 11.2

TABLE 11.3 Plant Tolerances of Soil Limitation Factors. Table with columns for Species, Growth Habit, Tolerates (Wet Soil, Dry Site, Low Fertility, Acid Soil, Purity, Ready Germ, Hard Seed, Total Germ, Seeds/lb), and Minimum Seed Specifications.

- 1. GROWTH HABIT REFERS TO THE ABILITY OF THE SPECIES TO EITHER FORM A DENSE SOD BY VEGETATIVE MEANS (STOLONS, RHIZOMES, OR ROOTS) OR REMAIN IN A BUNCH OR SINGLE PLANT FORM.
2. ONCE ESTABLISHED, PLANS MAY GROW AT A SOMEWHAT LOWER PH, BUT COVER GENERALLY IS ONLY ADEQUATE AT PH 6.0 OR ABOVE.
3. MINIMUM SEED LOTS ARE TRULY MINIMUM, AND SEED LOTS TO BE USED FOR REVEGETATION PURPOSES SHOULD EQUAL OR EXCEED THESE STANDARDS.
4. SWITCHGRASS SEED IS SOLD ONLY IN THE BASIS OF PLS.
5. NEED SPECIFIC LEGUME INOCULATE.
6. BIRDSFOOT TREFLOID IS ADAPTED OVER THE ENTIRE STATE...

ERNST RIPARIAN BUFFER MIX - ERNMX 178. Table with columns for PERCENTAGE OF MIX COMPOSITION, SCIENTIFIC NAME, and COMMON NAME.

- 1. SEEDING RATE: 20 LBS/ACRE WITH THE FOLLOWING NURSE CROPS: DRY SITES - GRAIN OATS JAN 1 TO AUG 1; OR, GRAIN RYE, AUG TO JAN 1; MOIST SITES - GRAIN RYE YEAR ROUND.
2. THIS SEED MIX IS TO BE USED TO REVEGETATE WORKSPACE WITHIN THE DESIGNATED RIPARIAN BUFFER AREA WHERE SLOPES ARE LESS THAN 10%.
3. AN ALTERNATIVE SEED MIXTURE THAT CONTAINS SIMILAR SPECIES IS ACCEPTABLE.

TABLE 11.4 Recommended Seed Mixtures. Table with columns for Mixture Number, Species, Seeding Rate-Pure Live Seed\* (Most Sites, Adverse Sites).

PENN STATE, "EROSION CONTROL AND CONSERVATION PLANTINGS ON NONCROPLAND"

- 1. PLS IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100.
2. IF HIGH-QUALITY SEED IS USED, FOR MOST SITES SEED SPRING OATS AT A RATE OF 2 BUSHEL PER ACRE...
3. THIS MIXTURE IS SUITABLE FOR FREQUENT MOWING. DO NOT CUT SHORTER THAN 4 INCHES.
4. KEEP SEEDING RATE TO THAT RECOMMENDED IN TABLE.
5. DO NOT MOW SHORTER THAN 9 TO 10 INCHES.

PCSM CRITICAL STAGES

- CRITICAL POINTS REQUIRING VISITS BY THE LICENSED PROFESSIONAL OR DELEGATE ARE AS FOLLOWS:
1. FOLLOWING INSTALLATION OF THE PAD SUBGRADE TO ENSURE STORMWATER FLOW IS DIRECTED TO THE INFILTRATION BMPS.
2. PRIOR TO CONSTRUCTION TO ENSURE THE AREA OF THE INFILTRATION BERM AND VEGETATED FILTER STRIP HAS NOT BEEN IMPACTED BY CONSTRUCTION ACTIVITIES.
3. DURING CONSTRUCTION OF THE INFILTRATION BERM AND VEGETATED FILTER STRIP TO ENSURE COMPLIANCE WITH CONSTRUCTION REQUIREMENTS.
4. FOLLOWING FINAL GRADING AND SEEDING OF THE PCSM CHANNELS, INFILTRATION BERM AND VEGETATED FILTER STRIP IN ORDER TO CONFIRM THEY HAVE BEEN CONSTRUCTED ACCORDING TO THE PLAN DETAILS...
5. FOR FINAL INSPECTION OF CONSTRUCTED BMPS.
6. AT THE ESTABLISHMENT OF HARD SURFACE STABILIZATION OR 70% VEGETATION COVERS TO ALLOW REMOVAL OF E&S CONTROLS.

LONG TERM OPERATION AND MAINTENANCE SCHEDULE

ALL BMPS SHOULD BE PROPERLY MAINTAINED TO ENSURE THEIR EFFECTIVENESS. SHEET FLOW CONDITIONS AND INFILTRATION MUST BE SUSTAINED THROUGHOUT THE LIFE OF THE BMP. BMPS SHOULD BE INSPECTED FOR CLOGGING FROM SEDIMENT OF DEBRIS, DAMAGE BY FOOT OR VEHICULAR TRAFFIC, AND FLOW CHANNELIZATION...

CHANNEL LININGS SHOULD BE INSPECTED FOR SIGNS OF EROSION OR DISLODGING, AS APPLICABLE. CHANNELS SHOULD BE INSPECTED FOR DEBRIS, OVERGROWTH, AND OTHER BLOCKAGES. CULVERTS AND TRENCH DRAINS SHOULD BE INSPECTED AT LEAST TWO TIMES PER YEAR AND AFTER RUNOFF EVENTS AND CLEANED AS NEEDED...

OPERATION AND MAINTENANCE GUIDELINES SHOULD BE PROVIDED TO FACILITY OWNER, SEDIMENT AND DEBRIS SHOULD BE ROUTINELY REMOVED UPON OBSERVATION. IF EROSION IS OBSERVED, MEASURES SHOULD BE TAKEN TO IMPROVE THE DISPERSION METHOD TO ADDRESS THE SOURCE OF EROSION...

VEGETATED AREAS WILL BE INSPECTED WEEKLY AND AFTER RUNOFF EVENTS UNTIL PERMANENT VEGETATION IS ACHIEVED. ONCE THE VEGETATION IS ESTABLISHED, INSPECTIONS OF HEALTH, DIVERSITY, AND DENSITY SHOULD BE PERFORMED AT LEAST TWICE PER YEAR...

THE VEGETATED FILTER STRIP SHOULD BE PROPERLY MAINTAINED TO ENSURE THEIR EFFECTIVENESS. SEDIMENT AND DEBRIS SHOULD BE ROUTINELY REMOVED (BIANNUALLY AT MINIMUM), OR UPON OBSERVATION, WHEN BULDPUP EXCEEDS 2 INCHES IN DEPTH OVER THE FILTER STRIP...

TRANSCONTINENTAL GAS PIPELINE COMPANY, LLC. WILL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE POST-CONSTRUCTION STORMWATER MANAGEMENT FACILITIES PROPOSED AT THE SITE.

LAWN AND TURFGRASS MIX OPTION. Table with columns for APPLICATION RATE, PERCENT, SCIENTIFIC NAME, and COMMON NAME.

\* OR EQUIVALENT MIXTURE. FOR USE IN HIGH-TRAFFIC AREAS IN LAWN/TURFGRASS SETTINGS

Revisions table with columns for NO, DATE, BY, DESCRIPTION, W.O. NO, CHK, APP. Includes logos for Williams, W&M consulting, inc., and Patrick A. Wozinski, P.E. Also includes a 'NOTES' section with drawing and revision details.

MATERIAL RECYCLING AND DISPOSAL

IF THE SITE WILL NEED TO HAVE FILL IMPORTED FROM AN OFF-SITE LOCATION, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL WILL IN MOST CASES RESIDE WITH THE OPERATOR.

IF THE SITE WILL HAVE EXCESS FILL THAT WILL NEED TO BE EXPORTED TO AN OFF-SITE LOCATION, THE RESPONSIBILITY OF CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE RESTS ON THE APPLICANT.

IF ALL CUT AND FILL MATERIALS WILL BE USED ON THE SITE, A CLEAN FILL DETERMINATION IS NOT REQUIRED BY THE OPERATOR UNLESS THERE IS A BELIEF THAT A SPILL OR RELEASE OF A REGULATED SUBSTANCE OCCURRED ON SITE.

APPLICANTS AND/OR OPERATORS MUST USE ENVIRONMENTAL DUE DILIGENCE TO ENSURE THAT THE FILL MATERIAL ASSOCIATED WITH THIS PROJECT QUALIFIES AS CLEAN FILL DEFINITIONS OF CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE ARE PROVIDED BELOW...

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREGGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES...

ENVIRONMENTAL DUE DILIGENCE: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES...

FILL MATERIAL THAT DOES NOT QUALIFY AS CLEAN FILL IS REGULATED FILL. REGULATED FILL IS WASTE AND MUST BE MANAGED IN ACCORDANCE WITH THE DEPARTMENT'S MUNICIPAL OR RESIDUAL WASTE REGULATIONS BASED ON 25 PA. CODE CHAPTERS 287 RESIDUAL WASTE MANAGEMENT OR 271 MUNICIPAL WASTE MANAGEMENT...

THERMAL IMPACTS

THERMAL IMPACTS TO SURFACE WATERS ARE NOT ANTICIPATED. MOST OF THE STORMWATER WILL BE ROUTED THROUGH THE STORMWATER BMP DESIGNED TO RETAIN AND INFILTRATE THE FIRST SURGE OF WATER FROM THE SITE. THE FIRST SURGE OF WATER WILL BE THE WARMEST WATER FOR THE DURATION OF THE STORM EVENT...

ANTI-DEGRADATION REQUIREMENTS

EXISTING COMPRESSOR STATION 515 IS LOCATED WITHIN A HO-CWF WATERSHED. THEREFORE IMPACTS TO A HO-CWF WATERSHED ARE UNAVOIDABLE. TRANSCO DETERMINED THERE ARE NO COST-EFFECTIVE AND ENVIRONMENTALLY SOUND VIABLE NON-DISCHARGE ALTERNATIVES FOR THE PROJECT.

EARTH DISTURBANCE WILL BE MINIMIZED TO THE EXTENT PRACTICAL AND WILL BE PHASED OR SEQUENCED TO ONLY DISTURBED PORTIONS THAT ARE NECESSARY FOR THE SPECIFIC SCOPE OF WORK. WHERE POSSIBLE, THE LOD WAS DECREASED TO AVOID ADDITIONAL DISTURBANCE TO THE EXTENT PRACTICAL.

ANTI-DEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT) STANDARDS HAVE BEEN PROPOSED FOR COMPRESSOR STATION 515 BECAUSE THERE ARE NO VIABLE NON-DISCHARGE ALTERNATIVES...

THE COMPRESSOR STATION 515 IS LOCATED IN HO WATERSHEDS AND CONSTRUCTION ACTIVITIES IN THESE AREAS WILL RESULT IN INCREASED DISCHARGE OF STORMWATER TO SURFACE WATERS WHICH WILL BE MITIGATED BY THE IMPLEMENTATION OF POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) BMPS...

RIPARIAN BUFFERS

NO RIPARIAN BUFFERS ARE LOCATED AT COMPRESSOR STATION 515. CS515 CONTRACTOR YARD IS LOCATED WITHIN A RIPARIAN BUFFER. NO TREE CLEARING IS PROPOSED WITHIN THE BUFFER.

NON-STRUCTURAL AND STRUCTURAL WATER QUALITY BMP DESCRIPTION

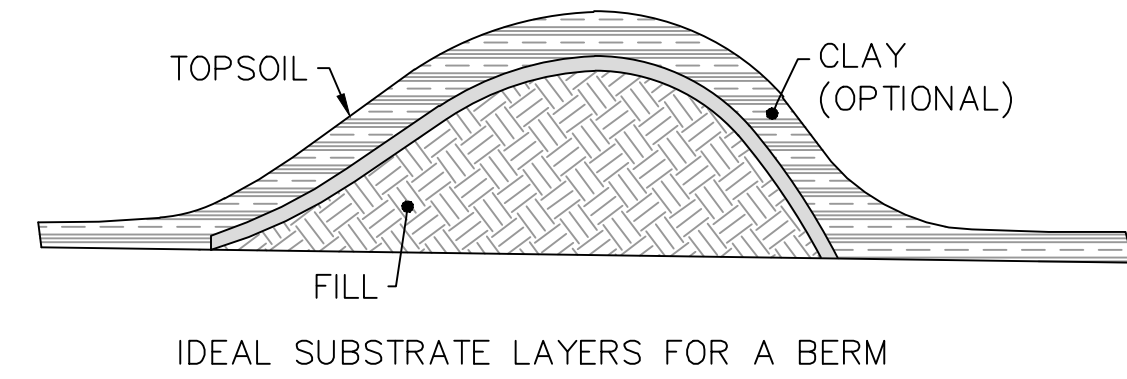
LIMIT OF DISTURBANCE WILL BE MINIMIZED TO THE MAXIMUM EXTENT POSSIBLE BY DISTURBING ONLY THOSE AREAS NECESSARY TO COMPLETE THE PROPOSED EARTHWORK AND BMP INSTALLATION. SENSITIVE FEATURES SUCH AS WETLANDS AND RIPARIAN BUFFERS WILL BE PROTECTED TO THE MAXIMUM EXTENT POSSIBLE...

THE PCSM PLAN SHALL BE PREPARED BY A PERSON TRAINED AND EXPERIENCED IN EROSION CONTROL METHODS AND TECHNIQUES.

THESE PLANS AND NARRATIVE WERE PREPARED BY BY PATRICK WOZINSKI, PE (BAI GROUP, LLC) OF STATE COLLEGE, PA IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION STORMWATER BMP MANUAL, DECEMBER, 2006...

STEEP SLOPE MIX OPTION. Table with columns for APPLICATION RATE, NATIVE STEEP SLOPE MIX WITH ANNUAL RYEGRASS, PERCENT, SCIENTIFIC NAME, and COMMON NAME.

\* OR EQUIVALENT MIXTURE \*\* SIMILAR MIXES WITH COVER CROP OF OATS (ERNST 181-1) OR GRAIN RYE (ERNST 181-2) OR EQUIVALENT COULD BE SUBSTITUTED.



**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.

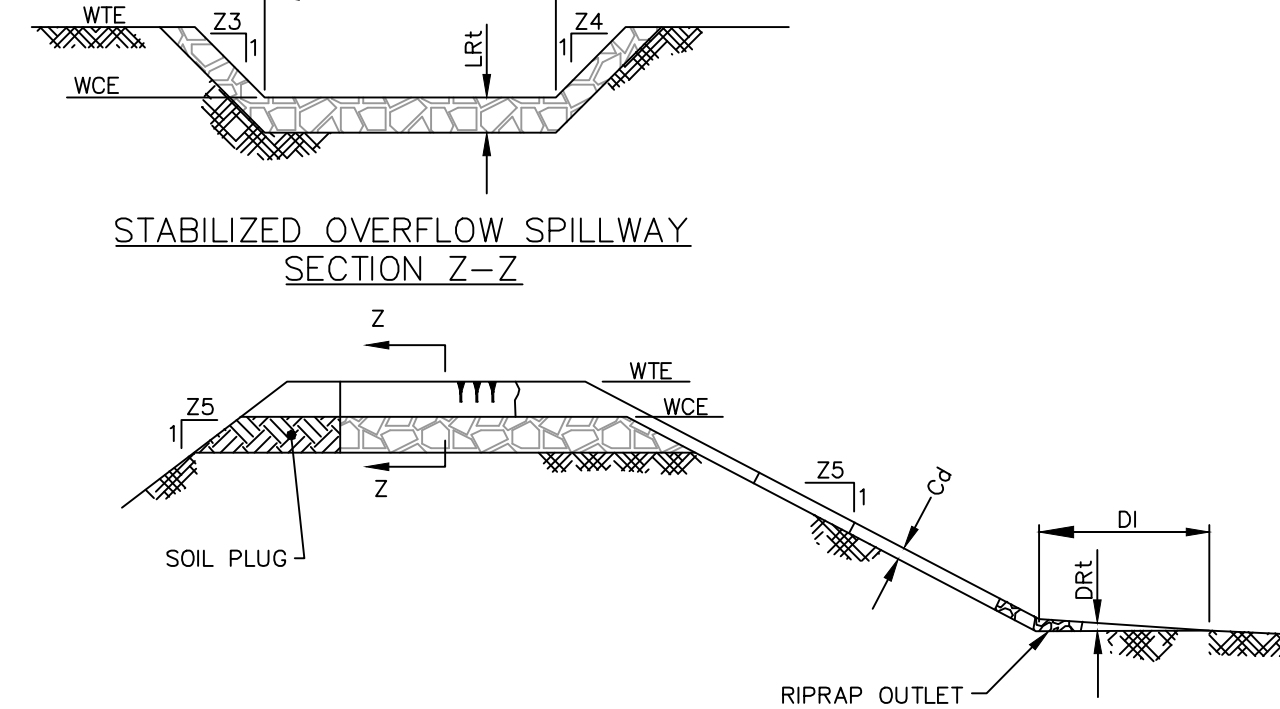
THE CREST OF THE BERM SHOULD BE LOCATED NEAR OR EDGE OF THE BERM, RATHER THAN IN THE MIDDLE, TO ALLOW FOR A MORE NATURAL, ASYMMETRICAL SHAPE.

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

INFILTRATION BERM No.	LENGTH OF BERM (L) (ft)	HEIGHT OF BERM (ft)	BOTTOM ELEV. (ft) (B.E.)	TOP OF BERM ELEV. (ft)	SHWT BELOW GROUND (in)	BEDROCK BELOW GROUND (in)	SPILLWAY ELEV. (ft)	TOP SPILLWAY WIDTH (ft)
INFILTRATION BERM 1	420	2.00	1925.50	1927.50	43.1	49.1	1926.62	15.52

NO. DATE BY REVISION DESCRIPTION I.G. NO./CHK. APP. PENNSYLVANIA

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



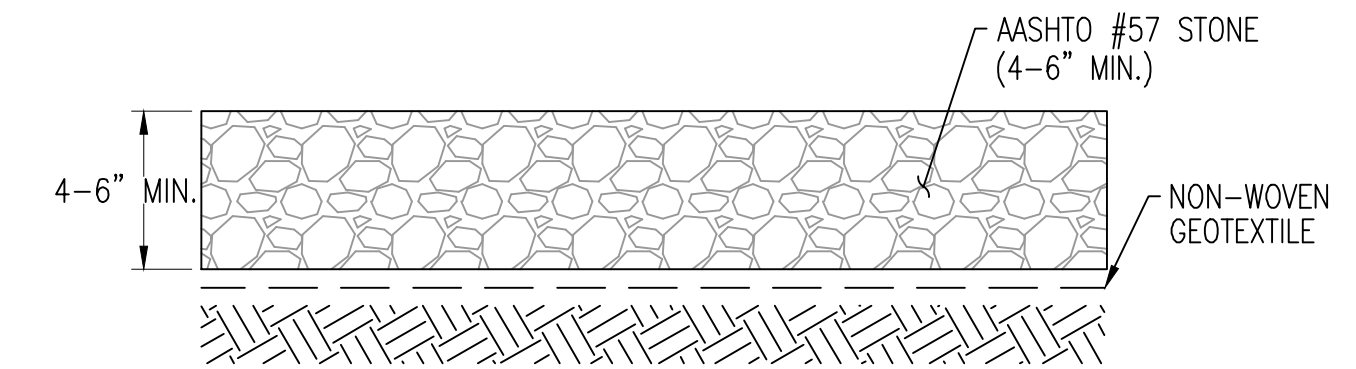
**STABILIZED OVERFLOW SPILLWAY PA DEP**

BMP	WEIR		TOP ELEV. WTE (ft)	CREST ELEV. WCE (ft)	WIDTH Ww (ft)	LINING		CHANNEL		DISSIPATER	
	Z3 (ft)	Z4 (ft)				RIPRAP SIZE (R-...)	RIPRAP THICK. LRI (in)	Z5 (ft)	DEPTH Cd (ft)	LENGTH DI (ft)	WIDTH Dw (ft)
INFILTRATION BERM SPILLWAY	2	2	1927.50	1926.62	12	SEE CHANNEL SCHEDULE	SEE CHANNEL SCHEDULE	SEE LEVEL SPREADER DETAIL	SEE LEVEL SPREADER DETAIL	SEE LEVEL SPREADER DETAIL	SEE LEVEL SPREADER DETAIL

CHANNEL I.D.	LENGTH (ft)	SLOPE (%)	BASE WIDTH (ft)	DEPTH (ft)	SIDE SLOPES (Z1/Z2)	TOP WIDTH (ft)	LINING	OUTLET
BERM SPILLWAY	30	25.0	12.0	1.0	2/2	16.00	R-4 RIPRAP	LEVEL SPREADER #2

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

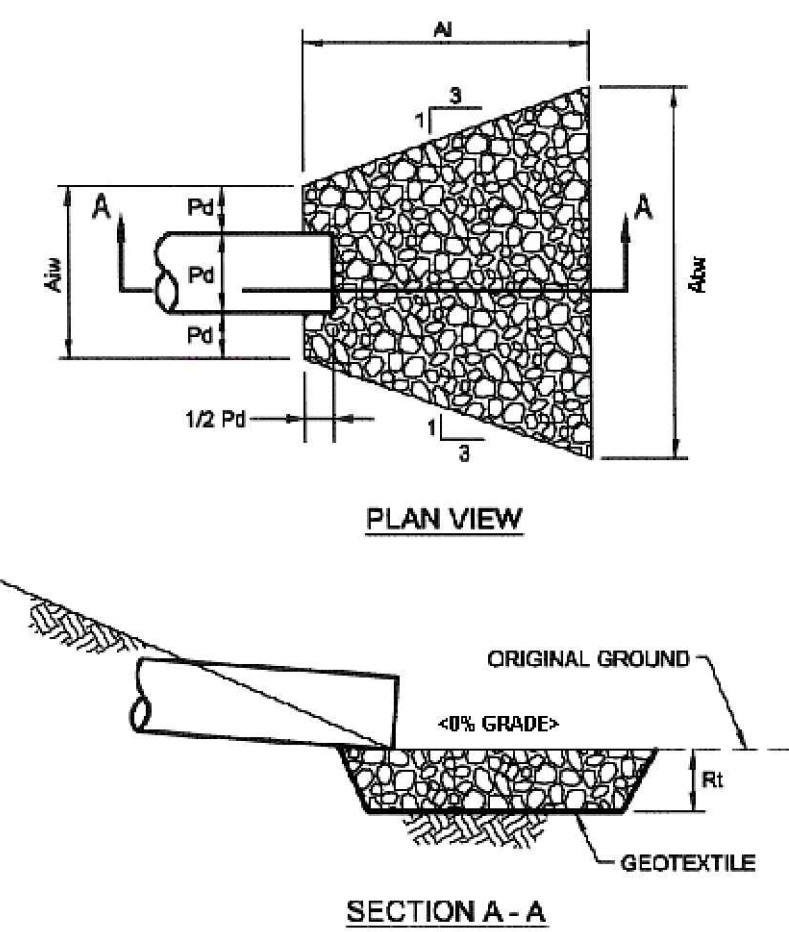


**NOTES:**

- 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.

NO. DATE BY REVISION DESCRIPTION I.G. NO./CHK. APP. PENNSYLVANIA

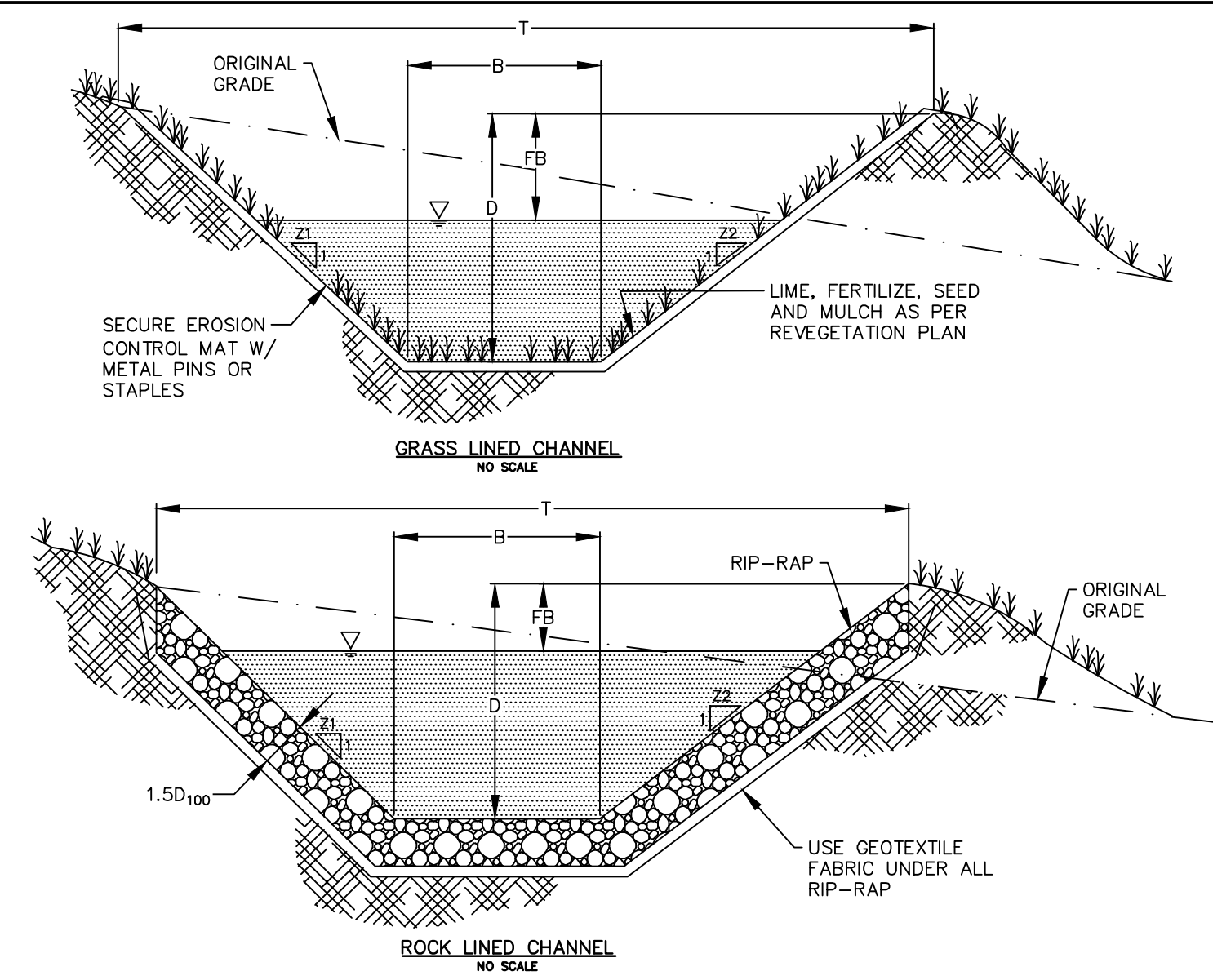
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL  
PROPOSED GRAVEL PAD



APRON No.	PIPE DIA. Do (in)	MAN "n" FOR PIPE	PIPE SLOPE (ft/ft)	Q (CFS)	V (FPS)	RIPRAP SIZE	Rt (in)	At (ft)	Atw (ft)	Atw (ft)
CHANNEL C-5	48	0.050	0.049	7.04	2.93	R-4	18	24	12	36
CULVERT 1	18	0.012	0.008	4.51	4.51	R-4	18	12	4.5	16.5
U TRENCH DRAIN	10	0.013	0.023	0.45	3.82	R-3	9	8	2.5	10.5

NO. DATE BY REVISION DESCRIPTION I.G. NO./CHK. APP. PENNSYLVANIA

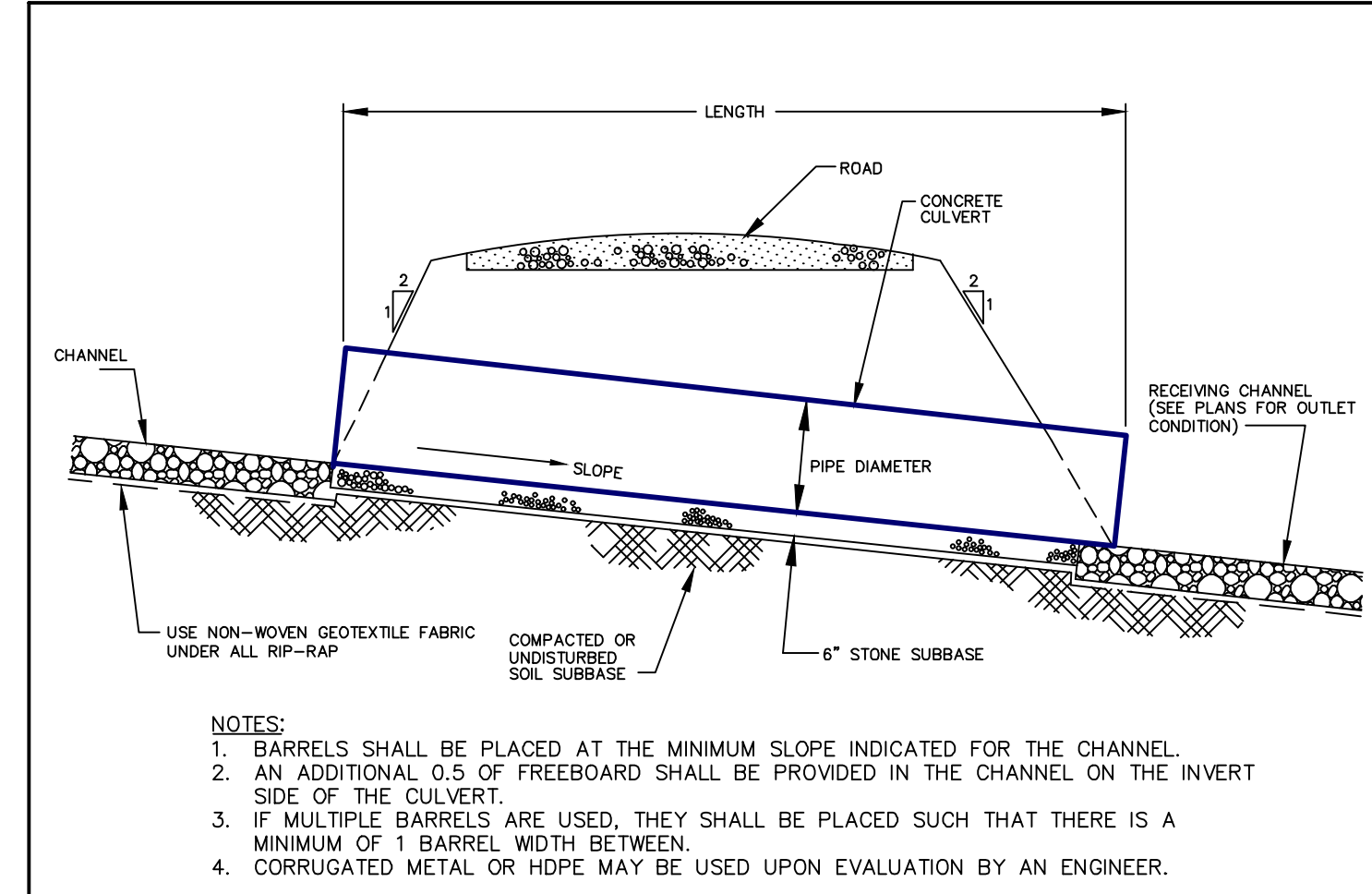
TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL  
OP RIPRAP APRON OUTLET PROTECTION



CHANNEL I.D.	LENGTH (ft)	SLOPE (%)	BASE WIDTH (ft)	DEPTH (ft)	SIDE SLOPES (Z1/Z2)	TOP WIDTH (ft)	LINING	OUTLET
C-1	100	4.1	4.0	1.25	3/3	11.50	GRASS	LEVEL SPREADER #1
C-2	150	1.3	2.0	1.00	3/3	8.00	R-3 RIP-RAP	CULVERT 1
C-3	60	5.7	2.0	1.00	3/3	8.00	R-3 RIP-RAP	CULVERT 1
C-4	346	1.7	2.0	1.25	3/3	9.50	GRASS	CHANNEL C-5
C-5	258	4.1	4.0	1.25	3/3	11.50	GRASS	INFILTRATION BERM

NO. DATE BY REVISION DESCRIPTION I.G. NO./CHK. APP. PENNSYLVANIA

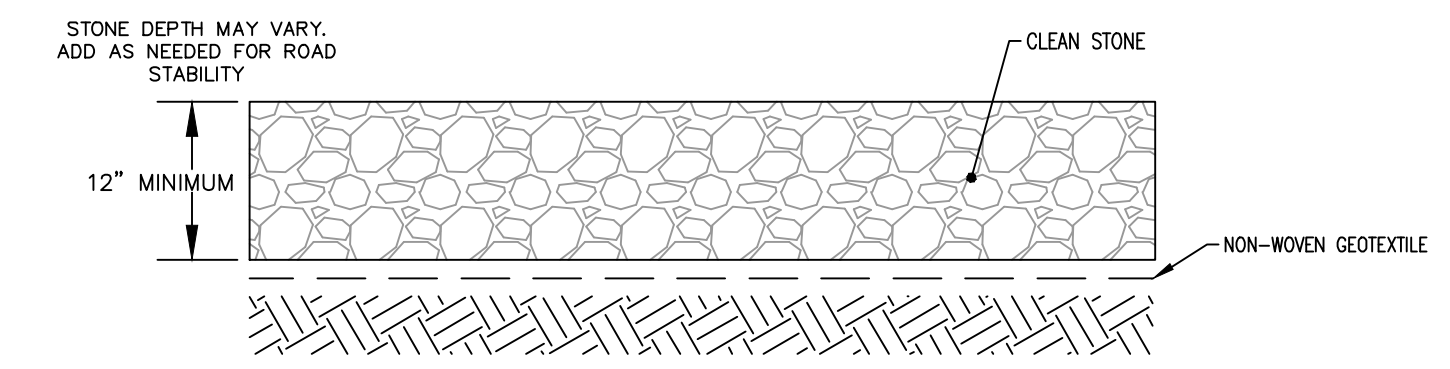
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL  
CC TYPICAL CHANNEL



ID	REQ'D FLOW (cfs)	LENGTH	INV. IN (ft)	INV. OUT (ft)	SLOPE (ft/ft)	NO. OF PIPES	PIPE DIA (in)
CULVERT 1	5.0	63	1935.75	1935.44	0.005	1	18

NO. DATE BY REVISION DESCRIPTION I.G. NO./CHK. APP. PENNSYLVANIA

TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL  
RC TYPICAL ACCESS ROAD CULVERT



**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.
- TEMPORARILY WIDENED ROAD SHOULD FOLLOW THE SAME SPECIFICATION FOR WIDENED ROADS. THE EXISTING ROAD SHALL BE MAINTAINED.
- ROADS FOR TEMPORARY CONSTRUCTION USE WILL BE MAINTAINED AND RESTORED TO THEIR PREVIOUS CONDITIONS IN ACCORDANCE WITH CHAPTER 102 ROAD MAINTENANCE ACTIVITIES. PLAN VIEW ACCESS ROAD CALLOUTS IDENTIFY THE PROPOSED ROAD MAINTENANCE ACTIVITY FOR THE PROJECT (I.E. MAINTENANCE ONLY, TEMPORARY WIDENING, ETC.).

NO. DATE BY REVISION DESCRIPTION I.G. NO./CHK. APP. PENNSYLVANIA

TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL  
AR PERMANENT/TEMPORARY STONE ACCESS ROAD

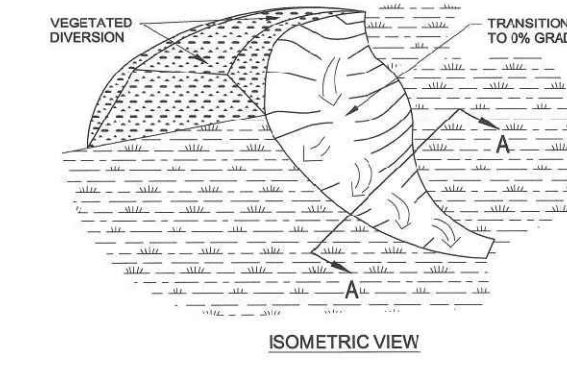
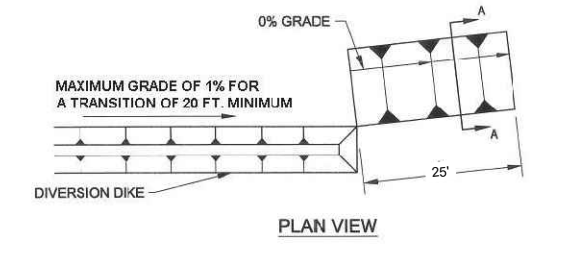
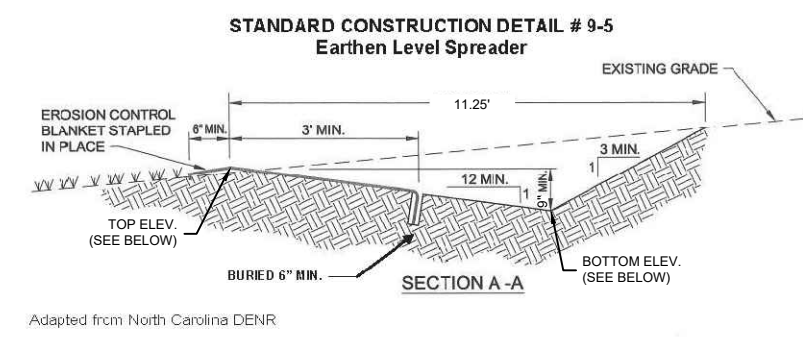
REVISIONS

NO.	DATE	BY	DESCRIPTION	I.G. NO.	CHK.	APP.
1	06/29/21	RHM	REVISED PER PADEP COMMENTS.			
2	03/01/22	RHM	RESPONSE TO PADEP TECHNICAL DEFICIENCY LETTER			

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
REGIONAL ENERGY ACCESS EXPANSION PROJECT  
COMPRESSOR STATION 515  
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN  
DETAILS

BUCK TOWNSHIP, LUZERNE COUNTY, PENNSYLVANIA

DRAWN BY: DRV	DATE: 03/31/21	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY: RJN	DATE: 03/31/21	ISSUED FOR CONSTRUCTION:	REVISION:
APPROVED BY: PW	DATE: 03/31/21	DRAWING NUMBER: 26-1000-70-28-D	SHEET 5 OF 6



Adapted from EPA-823-G-008

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ID	TOP ELEV. (ft)	BOTTOM ELEV. (ft)
LEVEL SPREADER # 1	1934.50	1933.75
LEVEL SPREADER # 2	1922.30	1921.55

**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.

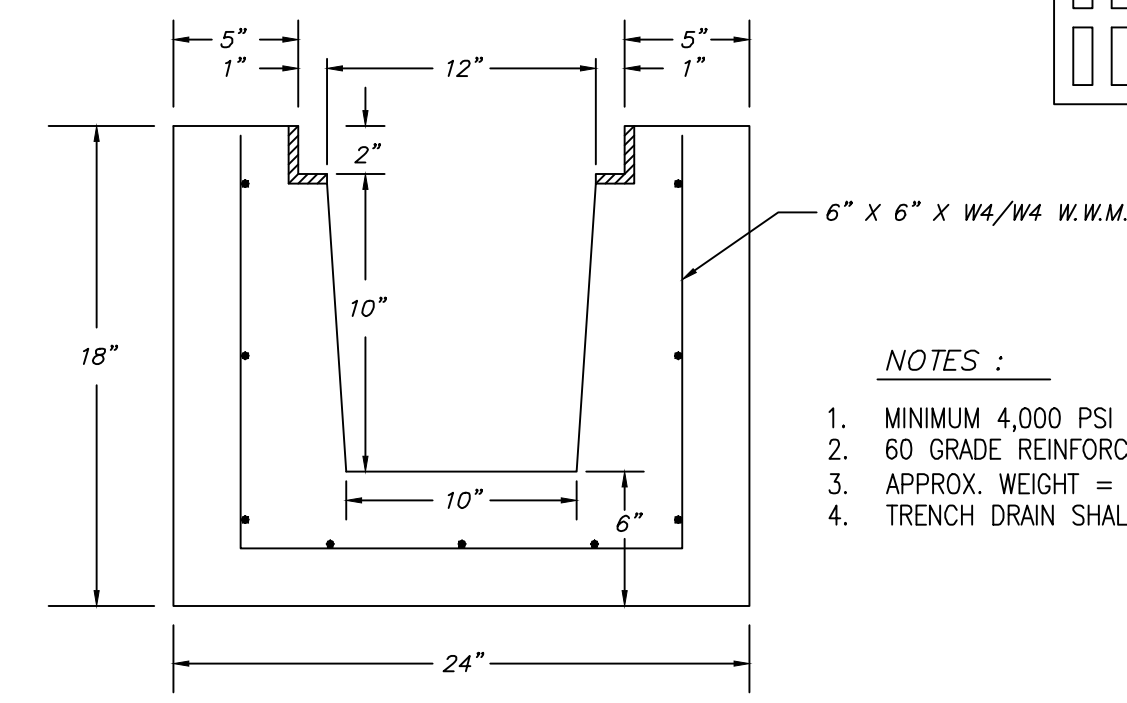
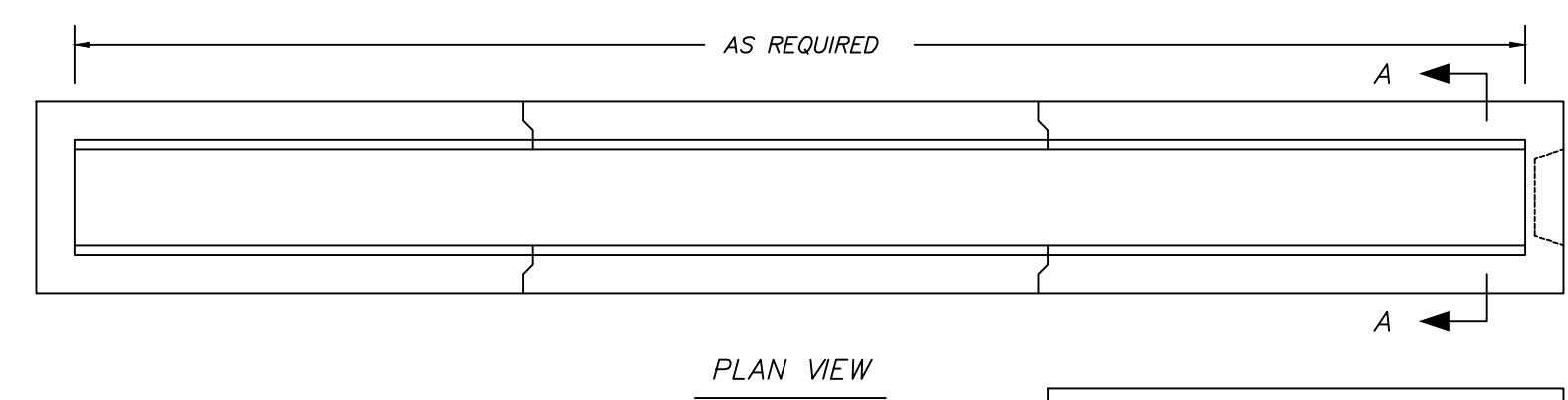
**OPERATION & MAINTENANCE:**

- 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.

PERMANENT STORMWATER MEASURE

NO.	DATE	BY	REVISION DESCRIPTION	NO.	CHK.	APP.

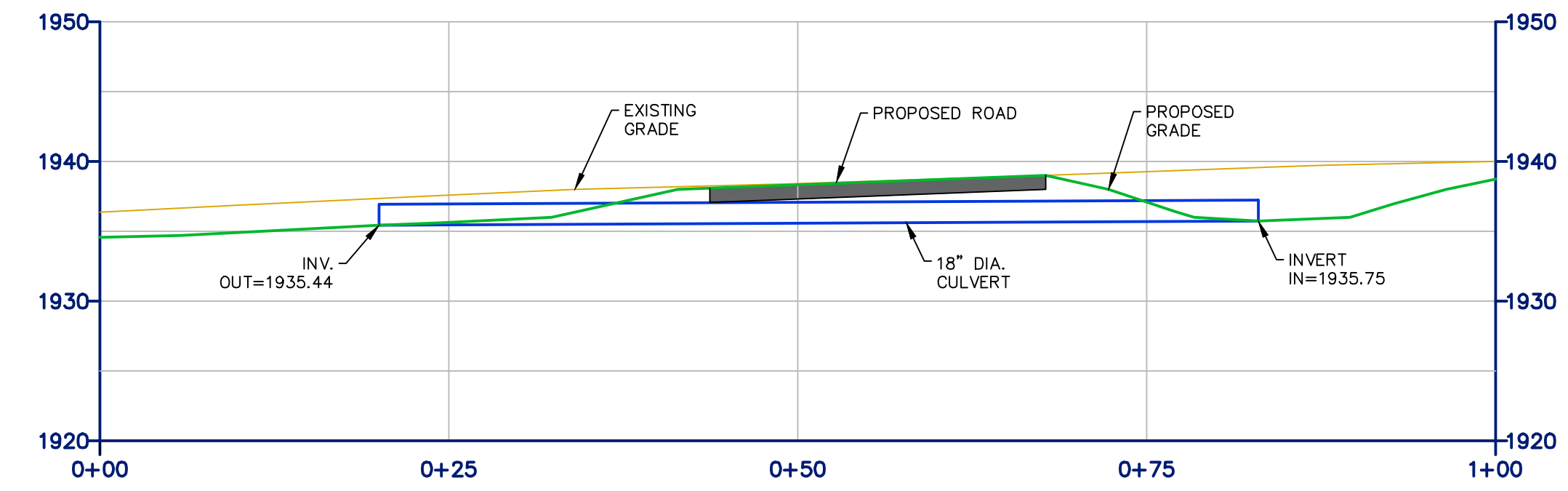
TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
PROJECT SPECIFIC DETAIL  
LEVEL SPREADER



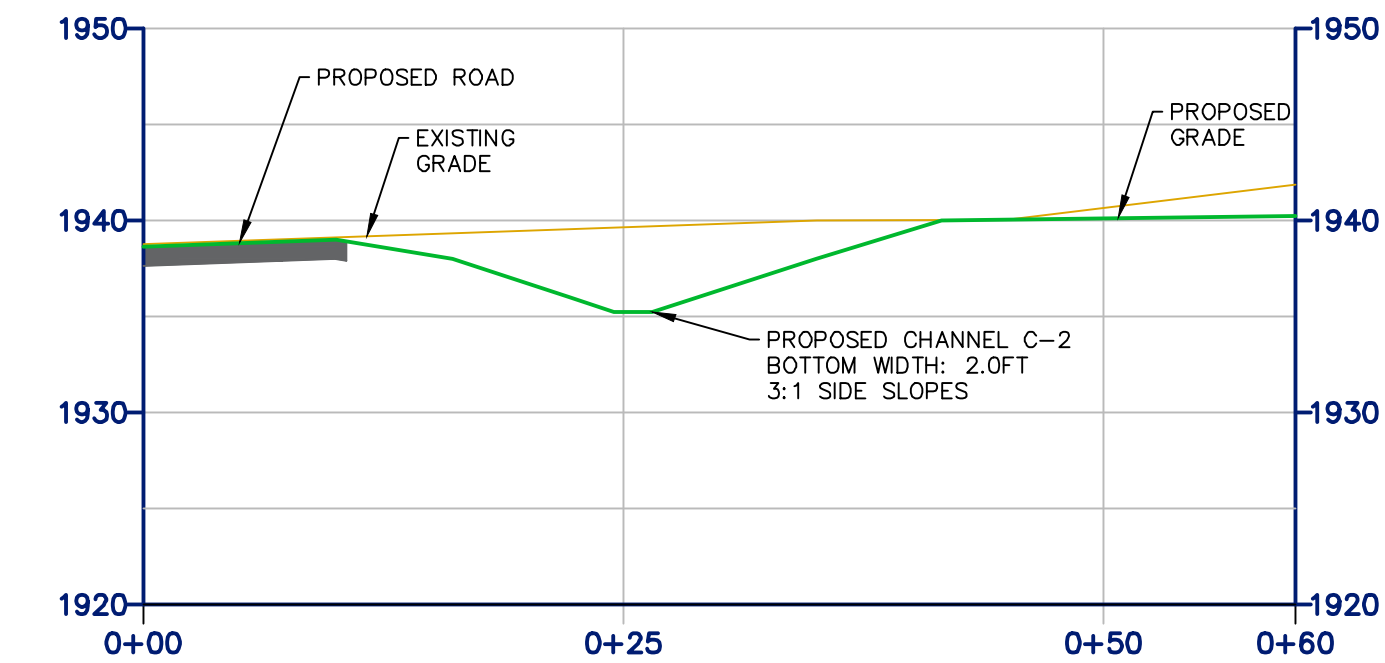
ID	REQ'D FLOW (cfs)	LENGTH	INV. IN (ft)	INV. OUT (ft)	SLOPE (ft/ft)	NO. OF PIPES	PIPE DIA (in)
TRENCH DRAIN	1.22	70	1941.0	1939.40	0.023	1	10"x10"

NO.	DATE	BY	REVISION DESCRIPTION	NO.	CHK.	APP.

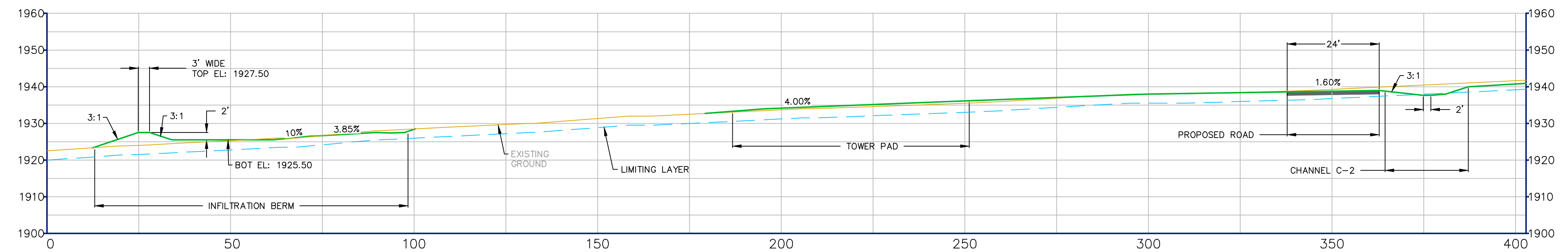
TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL  
TRENCH DRAIN



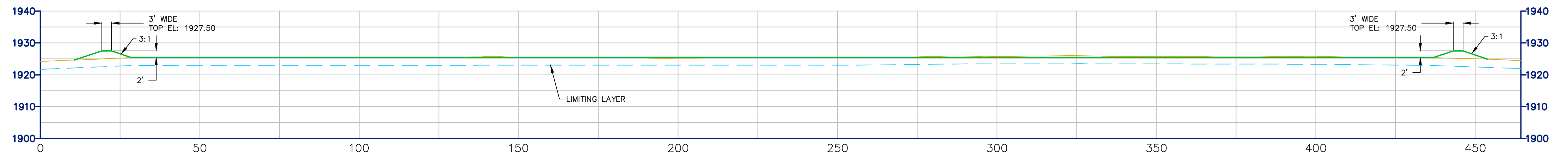
CULVERT PIPE 1 SECTION  
SCALE: 1"=10'



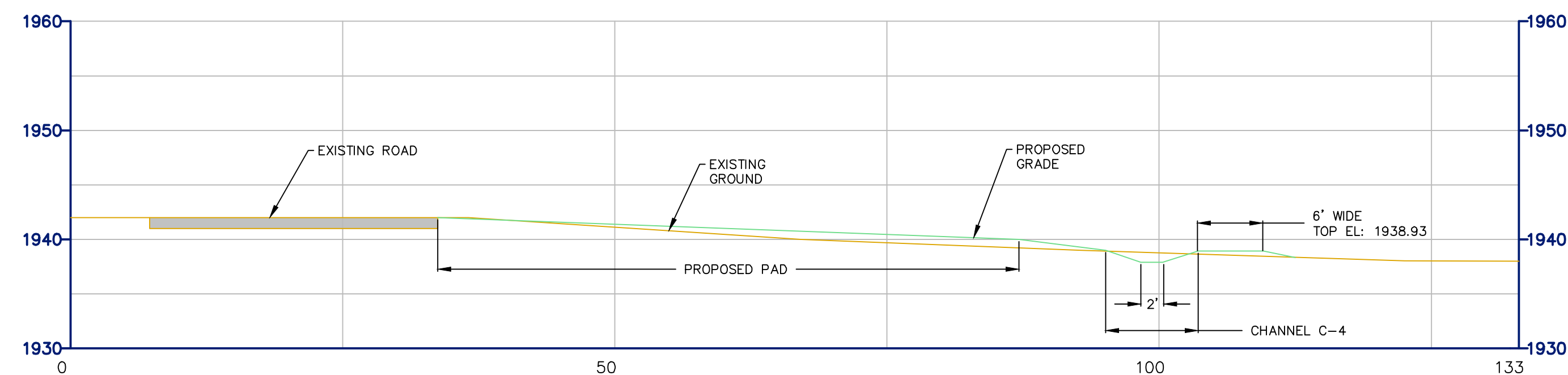
CHANNEL C-2 SECTION  
SCALE: 1"=10'



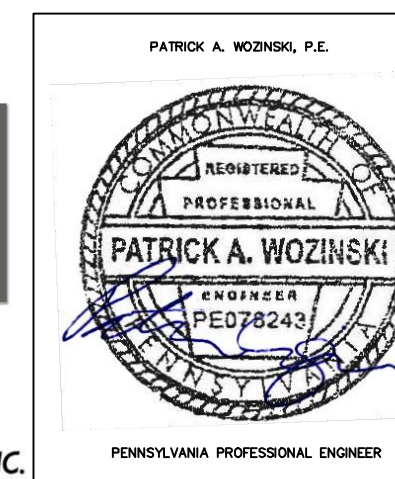
SECTION A-A  
SCALE: 1"=20'



SECTION B-B  
SCALE: 1"=20'



PAD SECTION C-C  
SCALE: 1"=10'



NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
1	06/29/21	RHM	REVISED PER PADEP COMMENTS.			
2	03/01/22	RHM	RESPONSE TO PADEP TECHNICAL DEFICIENCY LETTER			

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC REGIONAL ENERGY ACCESS EXPANSION PROJECT COMPRESSOR STATION 515 POST CONSTRUCTION STORMWATER MANAGEMENT PLAN DETAILS			
BUCK TOWNSHIP, LUZERNE COUNTY, PENNSYLVANIA			
DRAWN BY: DRV	DATE: 03/31/21	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY: RJN	DATE: 03/31/21	ISSUED FOR CONSTRUCTION:	REVISION:
APPROVED BY: PW	DATE: 03/31/21	DRAWING NUMBER: 26-1000-70-28-D	SHEET 6 OF 6