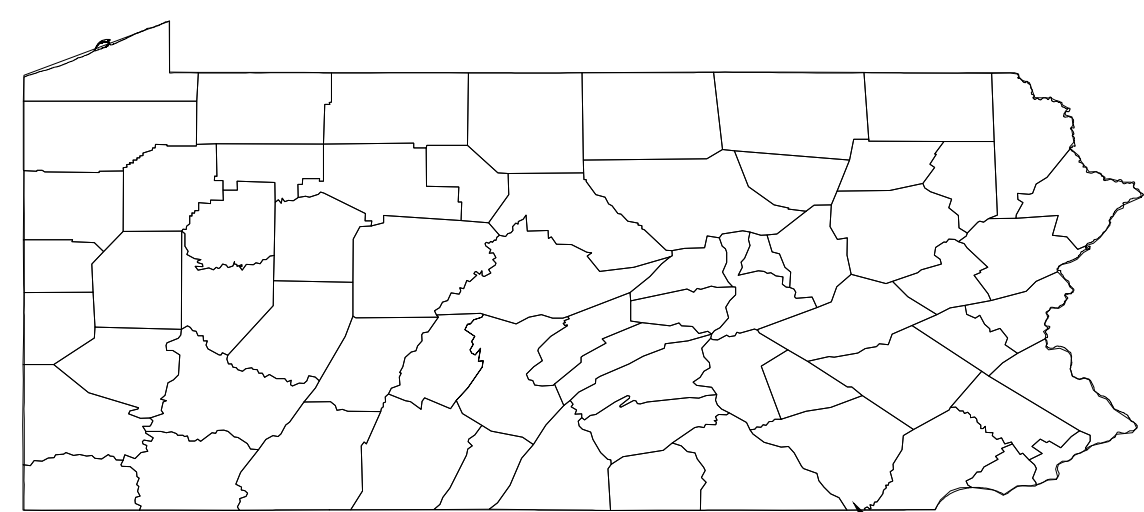


USGS TOPOGRAPHIC MAP

SCALE: 1 INCH=10,000 FEET
 0 10,000 20,000
 MAP SOURCE
 QUARRYVILLE, WAKEFIELD, AND
 HOLTWOOD, PA
 U.S.G.S. 7.5 MIN. QUAD MAP



STATE OF PENNSYLVANIA
 FOR EXACT LOCATION SEE VICINITY MAP
 VICINITY MAP
 N.T.S.

OWNER / APPLICANT

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 (TRANSCO)
 P.O. BOX 1396
 2800 POST OAK BLVD.
 HOUSTON, TX 77056

CONTACT: KAREN OLSON
 PERMIT AGENT
 (713) 215-4232

PLAN PREPARER

AECOM
 625 WEST RIDGE PIKE, SUITE E-100
 CONSHOHOCKEN, PA 19428

CONTACT: PETER P. HAAS, PE
 (610) 832-8832

**SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 10.17 MI. - M.P. 1681.00 TO M.P. 1691.17
 LANCASTER COUNTY, PENNSYLVANIA**

PROJECT DESCRIPTION

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. (TRANSCO) IS CONSTRUCTING THE QUARRYVILLE LOOP TO EXPAND ITS INTERSTATE NATURAL GAS PIPELINE SYSTEM. THE PROPOSED LOOP WILL RUN PARALLEL TO TRANSCO'S EXISTING MAIN LINE PIPELINE SYSTEM, AND WILL INTERSECT DRUMORE, EAST DRUMORE, AND EDEN TOWNSHIPS IN LANCASTER COUNTY, PENNSYLVANIA.

THIS SITE RESTORATION PLAN ADDRESSES THE LAND DISTURBANCE NECESSARY FOR CONSTRUCTION OF THE QUARRYVILLE LOOP PORTION OF THE NORTHEAST SUPPLY ENHANCEMENT PROJECT, CONSISTING OF 10.17 MILES OF 42" PIPELINE IN LANCASTER COUNTY, PENNSYLVANIA. THE QUARRYVILLE PORTION OF THE NORTHEAST SUPPLY ENHANCEMENT PROJECT WILL BEGIN AT A TIE IN WITH MAINLINES 'A', 'B' & 'C' AT APPROXIMATE MILE POST (MP) 1681.00 IN DRUMORE TOWNSHIP AND END AT MP 1691.17 IN EDEN TOWNSHIP. ONCE IN SERVICE, THE QUARRYVILLE LOOP WILL BE REFERRED TO AS MAINLINE 'D'. PIPELINE CONSTRUCTION IS SCHEDULED TO BEGIN IN 2019 AND END IN 2021.

THE PROJECT WORK WILL CONSIST OF UNLOADING AND STORING PIPE IN THE PROJECT VICINITY AS IT IS RECEIVED FROM THE PIPE MILL; CLEARING AND GRADING THE PIPELINE RIGHT-OF-WAY; HAULING PIPE TO THE RIGHT-OF-WAY; WELDING, COATING, AND INSPECTING THE PIPELINE; EXCAVATING THE TRENCH; LOWERING THE PIPELINE IN PLACE; BACKFILLING THE EXCAVATIONS; PERFORMING A HYDROSTATIC PRESSURE TEST ON THE COMPLETED PIPELINE; AND RESTORING THE RIGHT-OF-WAY AND DISTURBED AREAS. THE PROJECT WILL REQUIRE TEMPORARY FACILITIES TO BE ESTABLISHED FOR THE DURATION OF THE PROJECT FOR USE AS A COMPANY INSPECTION OFFICE, CONTRACTOR OFFICE, VEHICLE PARKING, EQUIPMENT PARKING AND MAINTENANCE YARD, PIPE STORAGE YARDS AND CONSTRUCTION ACCESS ROADS. THE PROJECT WILL ALSO REQUIRE THE FOLLOWING PERMANENT FACILITIES: THREE (3) VALVE SITES.

THE TRANSCO RIGHT-OF-WAY IS TYPICALLY MAINTAINED WITH VEGETATION. THE PROJECT AREA TERRAIN IS HILLY. ELEVATIONS RANGE FROM 450 FT. TO 700 FT.

THE ADJACENT LANDS ARE MOSTLY RURAL WITH LITTLE RESIDENTIAL. LAND HAS BEEN ACQUIRED FROM ADJOINING PROPERTIES FOR NEW PERMANENT RIGHT-OF-WAY NEEDED TO THEREFORE OPERATE AND MAINTAIN THE NEW PIPELINE AND FOR TEMPORARY WORKSPACE NEEDED TO WIDEN THE CONSTRUCTION WORK CORRIDOR. OTHER ADDITIONAL TEMPORARY WORKSPACE HAS BEEN ACQUIRED OFF RIGHT-OF-WAY FOR THE TEMPORARY FACILITIES LISTED ABOVE.

WAIVERS IN ACCORDANCE WITH THE PROVISIONS OF SUB SECTION (a) AND (b) OF SECTION 102.14 AS PER SECTION 102.14 (d)(2)(ii) FOR A LINEAR PROJECT ARE BEING REQUESTED.

ALL DISTURBED AREAS FOR THE PIPELINE CONSTRUCTION & TEMPORARY FACILITIES WITHIN NEW PERMANENT RIGHT-OF-WAY WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS, VEGETATION AND DRAINAGE PATTERNS. FINAL DRAINAGE PATTERNS WILL FOLLOW NATURAL COURSES. LAND ACQUIRED FOR TEMPORARY USE WILL BE STABILIZED ACCORDING TO THIS PLAN AND RETURNED TO LAND OWNER CONTROL. POST CONSTRUCTION STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES (BMPs) WILL BE INSTALLED FOR PERMANENT FACILITIES AS SHOWN ON THE SITE RESTORATION DRAWINGS.

THIS EXPANSION PROJECT IS REGULATED BY THE U.S. DEPARTMENT OF ENERGY, FEDERAL ENERGY REGULATORY COMMISSION (FERC), IN ADDITION TO STATE AND LOCAL REQUIREMENTS. THIS SITE RESTORATION PLAN INCLUDES MITIGATION MEASURES FOR PIPELINE CONSTRUCTION SPECIFIED BY THE FERC IN ITS "PLAN AND PROCEDURES" DOCUMENTS, UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN MAY 2013 AND WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES, MAY 2013".

SEQUENCE OF CONSTRUCTION - PIPELINE

DUE TO THE LENGTH OF THE PROJECT (10.17 MILES) IT IS ANTICIPATED THAT THE CONTRACTOR WILL CONSTRUCT THE PROJECT IN DISCRETE SEGMENTS, TYPICALLY USING WATERBODIES AND ROAD CROSSINGS AS BREAK POINTS. IN ADDITION, IT IS EXPECTED THAT MULTIPLE SEGMENTS WILL BE IN CONSTRUCTION AT ONE TIME, SOME BEING CLEARED AND PREPARED, SOME IN ACTIVE PIPELINE CONSTRUCTION AND SOME IN RESTORATION. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A SEQUENCE OF CONSTRUCTION (WITH TIMELINES AND BY MILEPOST) IN TERMS OF WHICH AREAS OF THE PROJECT WILL BE CONSTRUCTED IN WHICH ORDER PRIOR TO THE START OF ANY EARTH DISTURBANCE.

ROAD AND WATERBODY CROSSINGS MAY BE CONDUCTED BY SEPARATE CREWS, IN PARALLEL WITH MAIN LINE CREWS. SEE SEQUENCE OF CONSTRUCTION FOR APPLICABLE WATERBODY CROSSING.

UPON COMPLETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE WHERE CESSATION OF EARTH DISTURBANCE WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.

1. MAKE NOTIFICATIONS ACCORDING TO PERMIT REQUIREMENTS.
2. PERFORM TREE CLEARING.
3. SURVEY AND STAKE PIPELINE CENTERLINE AND WORK AREA LIMITS.
4. HOLD PRE-CONSTRUCTION CONFERENCE WITH ENVIRONMENTAL INSPECTORS. CONTRACTOR TO PROVIDE PROPOSED SEQUENCE OF EARTH DISTURBANCE, WITH TIMELINES BY MILE POST.
5. INSTALL CONSTRUCTION ENTRANCES.
6. INSTALL BRIDGE EQUIPMENT CROSSINGS AND COMPOST FILTER SOCK AT WATERBODY CROSSINGS AS INDICATED ON THE PLANS.

THE FOLLOWING STEPS APPLY TO EACH PROJECT SEGMENT, AS IT IS CONSTRUCTED.

7. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER CONTROLS (SAFETY FENCE, COMPOST FILTER SOCK AND COMPOST FILTER SOCK OUTLET STRUCTURES).
8. INSTALL PERIMETER CONTROLS (SAFETY FENCE, COMPOST FILTER SOCK, AND COMPOST FILTER SOCK OUTLET STRUCTURES)
9. COMPLETE SITE CLEARING AND GRUBBING.
10. STRIP TOPSOIL FROM DESIGNATED AREAS.
11. ROUGH GRADE RIGHT-OF-WAY.
12. INSTALL DIVERSION TERRACES, DIVERSION BERMS, BYPASS FLUMES, ROCK OUTLET PROTECTION, AND COMPOST FILTER SOCK OUTLET STRUCTURES AS INDICATED ON THE PLANS.
13. HAUL PIPE TO RIGHT-OF-WAY.
14. EXCAVATE TRENCH, INSTALL TEMPORARY TRENCH PLUGS (SOFT PLUGS CONSISTING OF EXCAVATED MATERIAL) AT EACH DIVERSION TERRACE.
15. BEND PIPE, PLACE ON SUPPORTS, ALIGN AND WELD PIPE.
16. PERFORM NOT INSPECTION OF WELDS AND APPLY COATING TO WELD AREA.
17. INSPECT PIPE COATING, REMOVE SOFT PLUGS AND LOWER PIPE IN PLACE.
18. INSTALL PERMANENT TRENCH PLUGS, PAD PIPE, AND BACKFILL TRENCH.
19. FINAL GRADE RIGHT-OF-WAY AFTER BACKFILL OF TRENCH.
20. INSTALL POST CONSTRUCTION STORM WATER MANAGEMENT MEASURES.
21. RETURN TOPSOIL TO DESIGNATED AREAS.
22. COMPLETE FINAL STABILIZATION, INCLUDING SOIL TREATMENT, SEEDBED PREPARATION, SEED APPLICATION AND MULCHING.
23. PERFORM HYDROSTATIC PRESSURE TEST OF PIPELINE.
24. DEWATER PIPELINE AND COMPLETE FINAL TIE-INS.
25. AFTER SITE IS PERMANENTLY STABILIZED AND UPON COMPANY APPROVAL OF STABILIZATION AND REVEGETATION, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND STABILIZE AREA DISTURBED BY REMOVAL.
26. PURGE AND PACK PIPELINE WITH NATURAL GAS. PLACE PIPELINE IN SERVICE.

SEQUENCE OF CONSTRUCTION FOR STREAM CROSSINGS (DAM & PUMP)

DAM AND PUMP CROSSING SHALL BE IN ACCORDANCE WITH DAM AND PUMP CROSSING DETAIL, (DPX) ON SHEET 23 IN THE EROSION AND SEDIMENT CONTROL PLAN.

1. INSTALL COMPOST FILTER SOCK AND SAFETY FENCE ACROSS ENTIRE WORK AREA, AS SHOWN ON THE PLAN.
2. INSTALL PUMP, INTAKE PIPING WITH SCREEN AND DISCHARGE HOSE WITH ENERGY DISSIPATION DEVICE AT DISCHARGE END TO PREVENT SCOURING OF STREAM BED AND BANK.
3. INSTALL UPSTREAM AND DOWNSTREAM COFFER DAM STRUCTURES.
4. DEWATER AND DESILT THE WORK AREA BETWEEN THE COFFER DAM STRUCTURE AND DISCHARGE WATER THROUGH A FILTER BAG PLACED AT THE DOWNSTREAM EDGE OF THE WORK AREA.
5. INSTALL PIPELINE ACCORDING TO STREAM CROSSING DETAIL DPX (SHEET).
6. RESTORE STREAM CHANNEL.
7. INSTALL EROSION CONTROL BLANKET ON STREAM BANKS.
8. REMOVE DOWNSTREAM AND UPSTREAM COFFER DAM STRUCTURES.
9. REVEGETATE STREAM BANKS AND BUFFER AREA.
10. REMOVE PUMP SYSTEM.

SHEET INDEX	
DESCRIPTION	SHEET NUMBER
COVER SHEET	01
SITE RESTORATION PLANS	02 - 21
SITE RESTORATION DETAILS	22 - 24
SITE RESTORATION NOTES	25
VALVE SITES	26

DETAIL LEGEND		
SYMBOL	DESCRIPTION	SHEET NUMBER
ECB	EROSION CONTROL BLANKET	22
DT	DIVERSION TERRACE	22
RPA	RIP RAP APRON	22
	VEGETATED CHANNEL	22
	TYPICAL VEGETATION RESTORATION - 1. WATER BODIES WITH EXISTING FORESTED RIPARIAN BUFFER	23
	TYPICAL VEGETATION RESTORATION - 2. WATER BODIES WITH NON-FORESTED RIPARIAN BUFFER	23
	VEGETATION RESTORATION - LIVE STAKES, WATER BODIES WITH EXISTING VEGETATED BANKS (WOODY MATERIAL)	23
	VEGETATION RESTORATION, TREE INSTALLATION	23
	VEGETATION RESTORATION, SHRUB INSTALLATION	23
	CULVERT	24
CWC	CLEAN WATER CROSSING (RIP RAP OUTLET BASIN)	24
	INFILTRATION PAD FOR MLV-195-5 (RIVER ROAD)	25
	INFILTRATION PAD FOR MLV-195-8 (CHURCH ROAD)	25
	INFILTRATION PAD FOR MLN-195-10 (HESS ROAD)	25

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PETER P. HAAS, P.E.

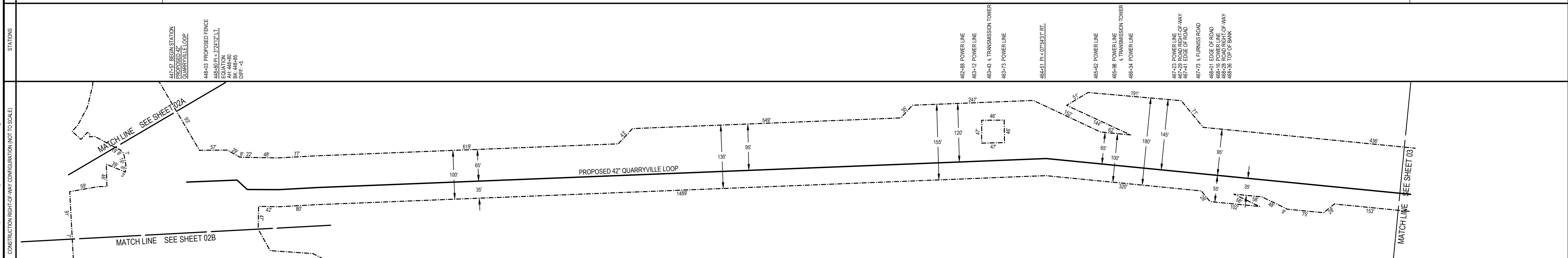
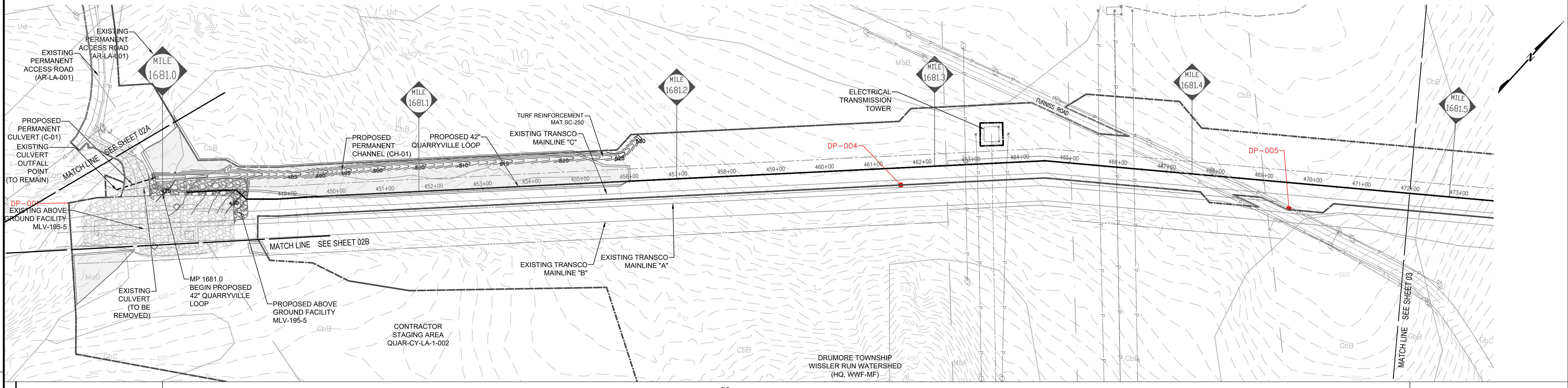
 08/22/2025
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 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE078971

REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: NTS
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 1
NO: 1185726			OF 26

OWNERSHIP	447+57	EXELON GENERATION COMPANY LLC PA-LA-2	462+52	PECO ENERGY COMPANY PA-LA-3	465+03	EXELON GENERATION COMPANY LLC PA-LA-2	467+29	FURNISS ROAD PA-LA-001.000.RD	468+28	EXELON GENERATION COMPANY LLC PA-LA-2	469+23	O'HARROW ASSOCIATES PA-LA-6	472+00
DIVERSION TERRACES	NONE												



GENERAL NOTES

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- WITH THE EXCEPTION OF TREE CLEARING AS INDICATED, PROPOSED LAND USE AND COVER IS TO MATCH EXISTING.
- SEE SHEET 23 FOR VEGETATION RESTORATION SPECIFICATIONS.

SOIL LEGEND

CbB CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES

SITE RESTORATION LEGEND

- EXISTING MAJOR CONTOUR (10')
- EXISTING MINOR CONTOUR (2')
- STREAM CENTERLINE
- UNREGULATED DITCH CENTERLINE
- WATERSHED DIVIDE BOUNDARY
- WETLAND
- WATER WELL
- PARCEL LINE
- EXISTING ACCESS ROADS
- FENCE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING PIPELINE
- PROPOSED PIPELINE
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- FEMA FLOOD HAZARD ZONES
- SOIL TYPE BOUNDARY
- SOIL TYPE
- 150' RIPARIAN BUFFER IMPACT AREA
- 150' RIPARIAN BUFFER
- CHANNEL LINER
- 50' PADEP FLOODWAY
- LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
- DIVERSION TERRACE
- TREE CLEARING AREA
- TREE LINE
- TREE
- EXISTING VALVE SITE STONE
- PROPOSED VALVE SITE STONE
- WETLAND PLANTING AREA



PETER P. HAAS, P.E.

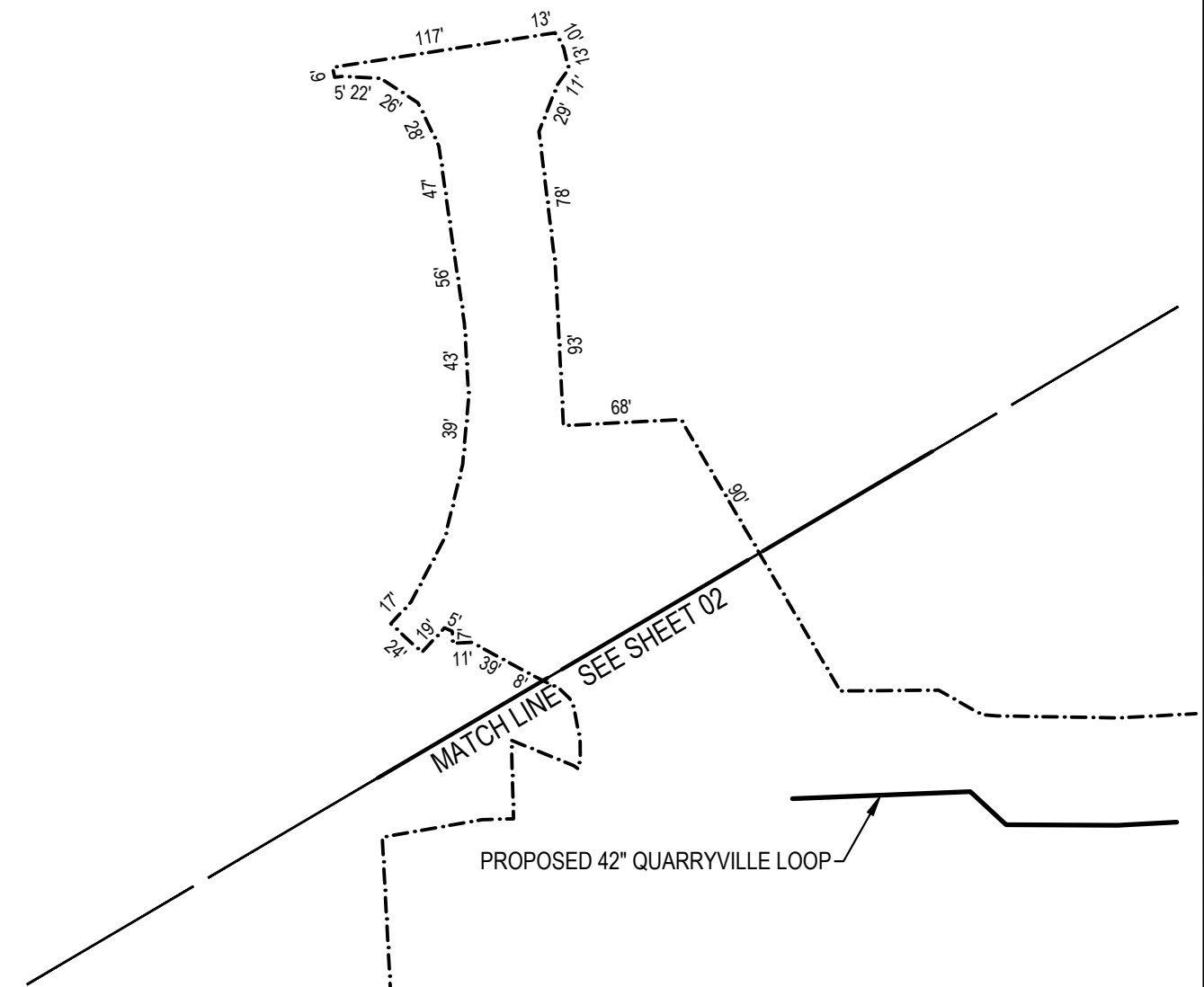
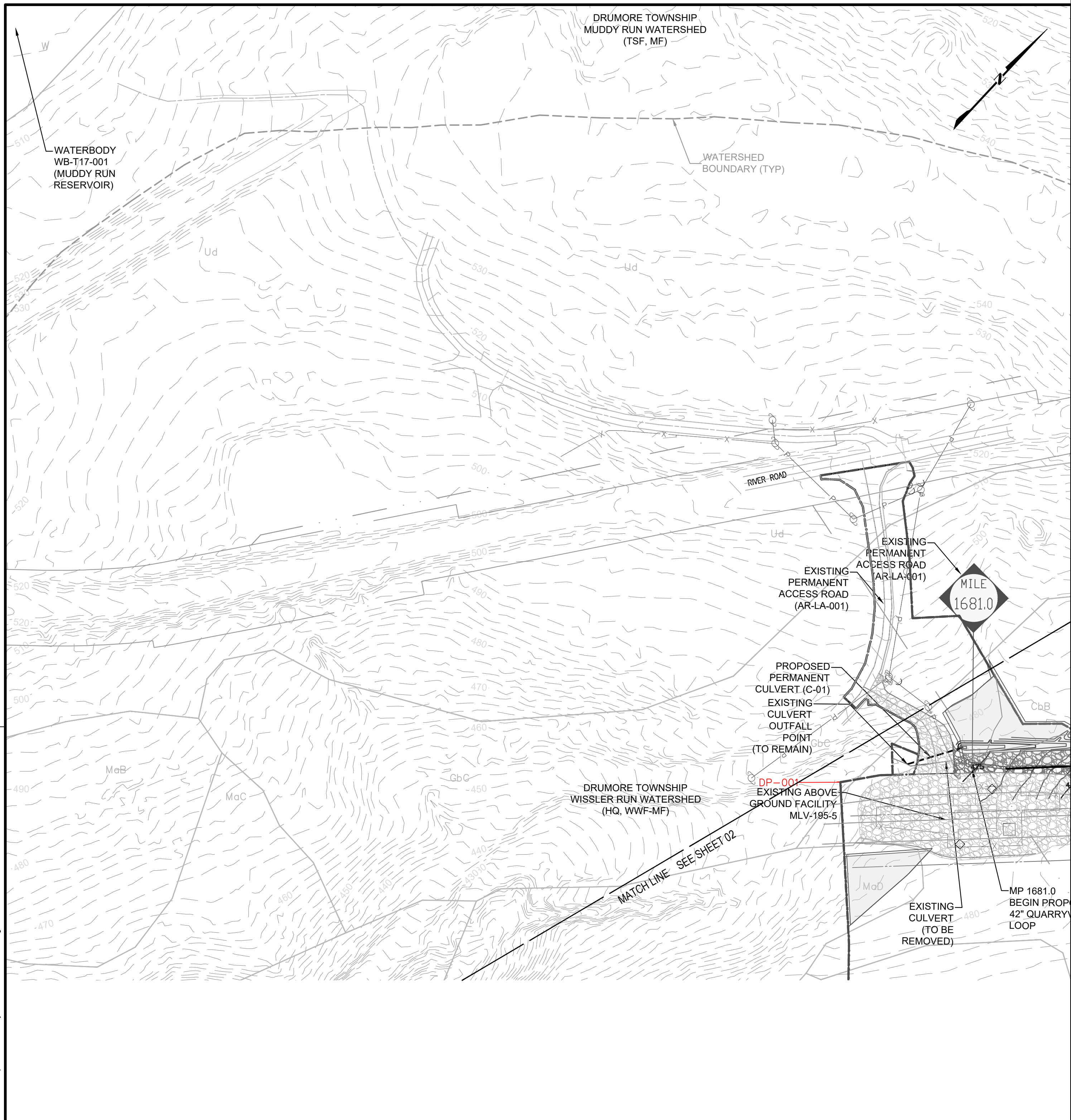
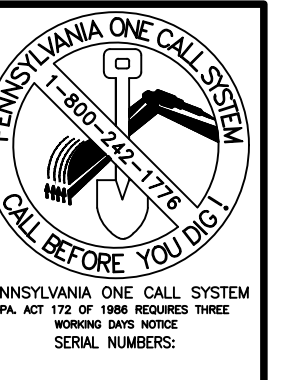
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WO: 1185726			OF 26

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 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)



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SOIL LEGEND

CbA	CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
GbD	GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES
GbE	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
MbD	MANOR VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
---	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
---	UNREGULATED DITCH CENTERLINE	---	TREE LINE
---	WATERSHED DIVIDE BOUNDARY	---	TREE
---	WETLAND	---	EXISTING VALVE SITE STONE
---	WATER WELL	---	PROPOSED VALVE SITE STONE
---	PARCEL LINE	---	WETLAND PLANTING AREA
---	EXISTING ACCESS ROADS		
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---	EXISTING OVERHEAD POWER LINE		
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---	EXISTING RIGHT OF WAY		
---	NEW RIGHT OF WAY		
---	FEMA FLOOD HAZARD ZONES		
---	SOIL TYPE BOUNDARY		
---	SOIL TYPE		
---	150' RIPARIAN BUFFER IMPACT AREA		
---	150' RIPARIAN BUFFER		
---	CHANNEL LINER		
---	50' PADEP FLOODWAY		

PETER P. HAAS, P.E.

08/22/2025
DATE

PENNSYLVANIA
PROFESSIONAL ENGINEER NO. PE078971

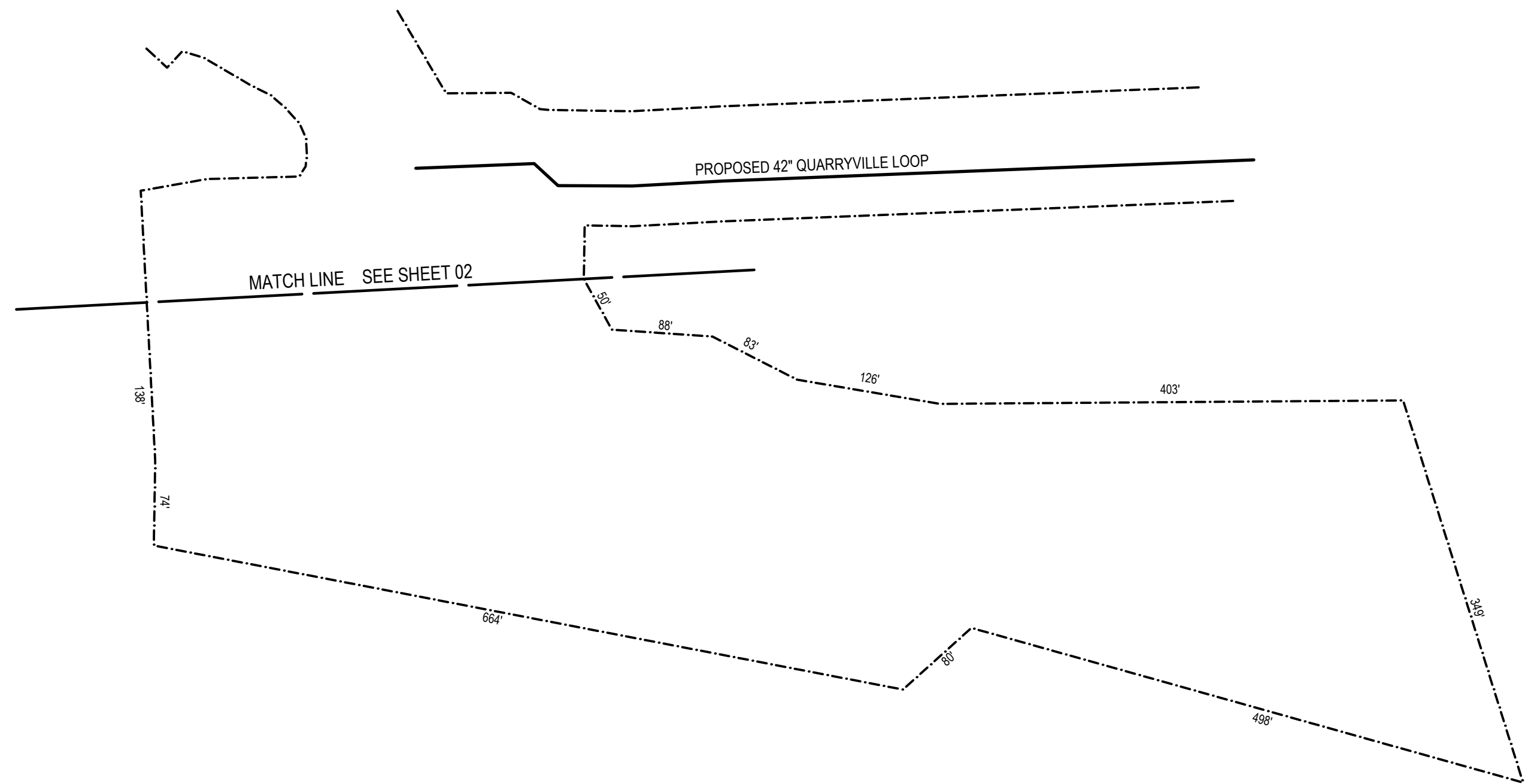
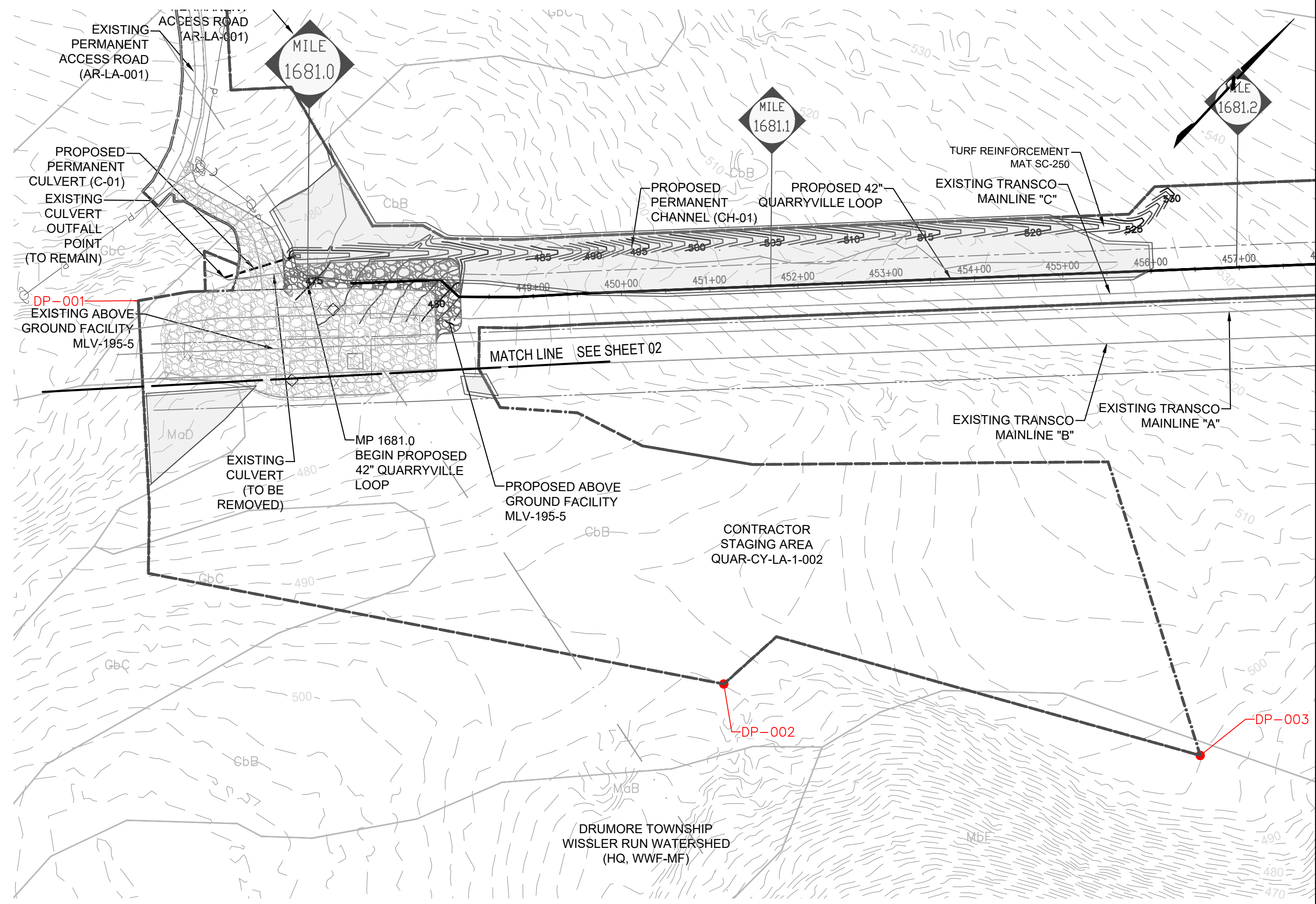
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IWO: 1185726			OF 26

AECOM
625 WEST RIDGE PIKE, SUITE E-100
CONSHOHOCKEN, PA 19428
(610) 832-3500



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---	FEMA FLOOD HAZARD ZONES		
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---	50' PADEP FLOODWAY		

PETER P. HAAS, P.E.

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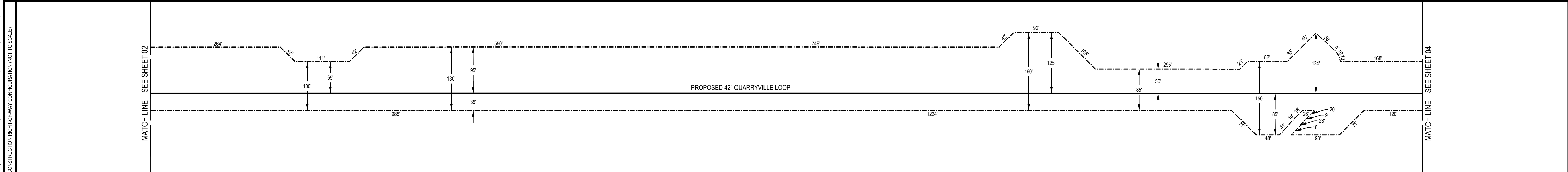
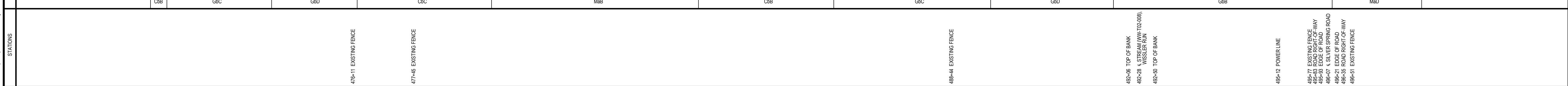
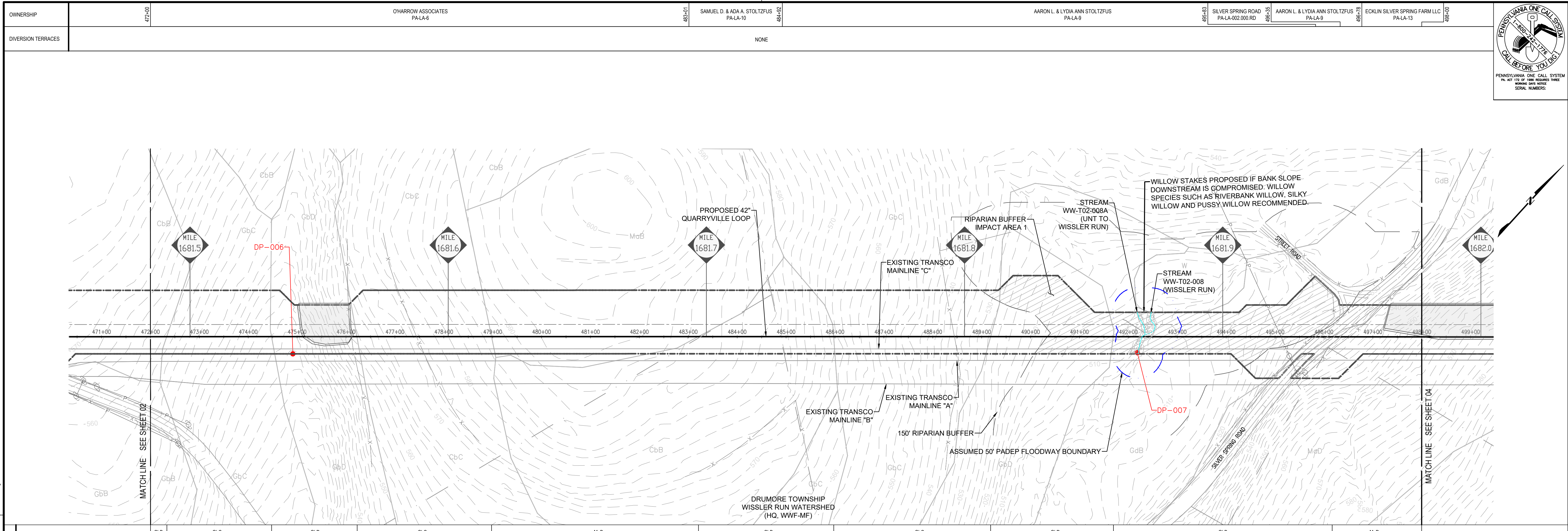
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2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
SITE RESTORATION PLAN
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED 42" QUARRYVILLE LOOP
M.P. 1681.02 TO M.P. 1691.16
LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 02B
NO: 1185726			OF 26

AECOM
625 WEST RIDGE PIKE, SUITE E-100
CONSHOHOCKEN, PA 19428
(610) 832-3500



GENERAL NOTES

- THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- ALL MILE POSTS AND STATIONING ARE BASED ON MAINLINE "D" STATIONING.
- BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83.
- WITH THE EXCEPTION OF TREE CLEARING AS INDICATED, PROPOSED LAND USE AND COVER IS TO MATCH EXISTING.
- SEE SHEET 23 FOR VEGETATION RESTORATION SPECIFICATIONS.

SOIL LEGEND

CbB	CHESTER SILT LOAM, 8 TO 8 PERCENT SLOPES
CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 8 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
GbD	GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES
MaB	MANOR SILT LOAM, 3 TO 8 PERCENT SLOPES
MaD	MANOR SILT LOAM, 15 TO 25 PERCENT SLOPES

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
---	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
---	UNREGULATED DITCH CENTERLINE	---	TREE LINE
---	WATERSHED DIVIDE BOUNDARY	---	TREE
---	WETLAND	---	EXISTING VALVE SITE STONE
---	WATER WELL	---	PROPOSED VALVE SITE STONE
---	PARCEL LINE	---	WETLAND PLANTING AREA
---	EXISTING ACCESS ROADS	---	
---	FENCE LINE	---	
---	EXISTING OVERHEAD POWER LINE	---	
---	EXISTING PIPELINE	---	
---	PROPOSED PIPELINE	---	
---	EXISTING RIGHT OF WAY	---	
---	NEW RIGHT OF WAY	---	
---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE HAZARD BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	

PETER P. HAAS, P.E.

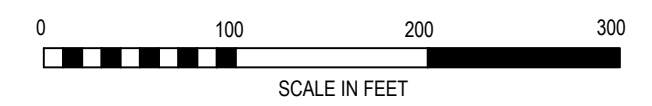
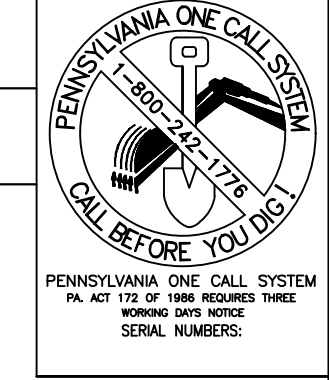
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 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE076971

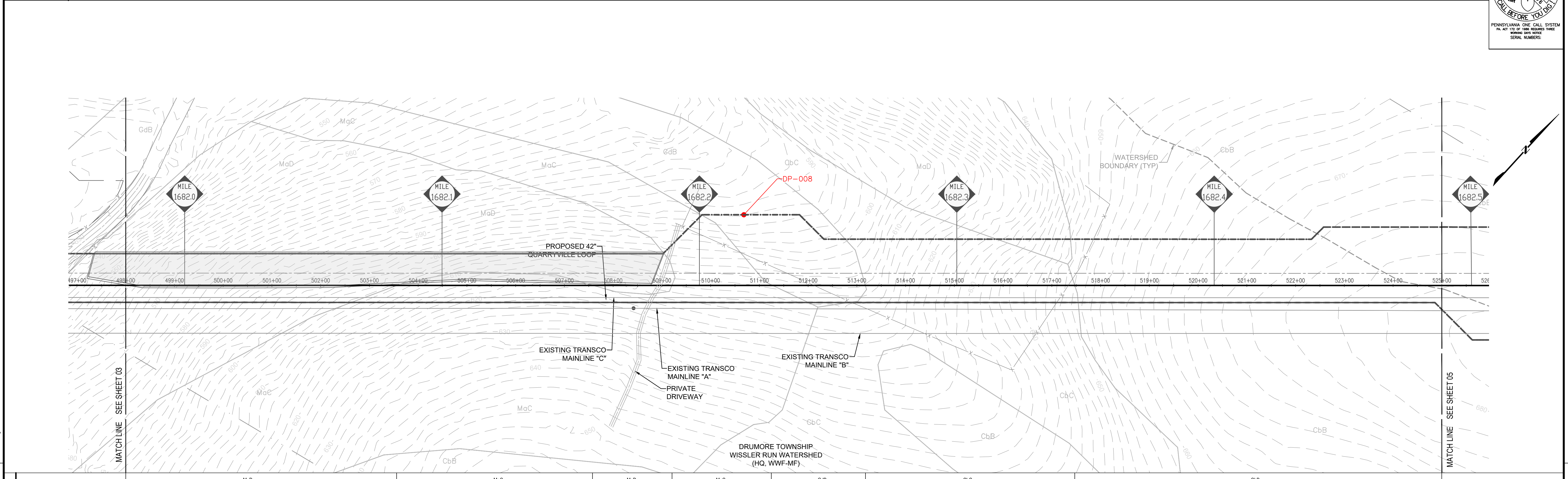
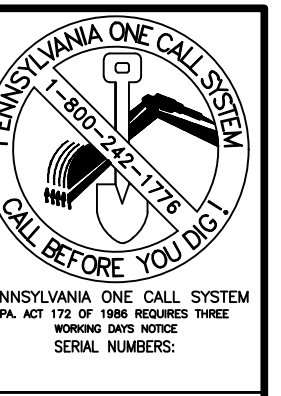
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1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

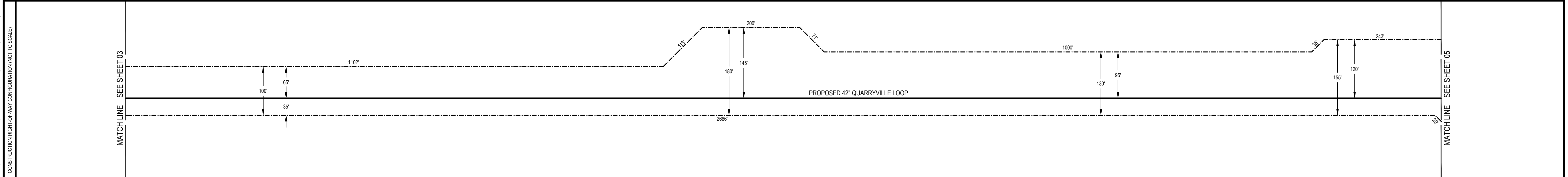
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APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 03
NO: 1185726			OF 26

Drawn By: & Date/Time: WisayantonaA Aug 21, 2025 11:46am
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 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)





STATIONS	MaD	MaC	MaD	MaC	GdB	CbC	CbB
----------	-----	-----	-----	-----	-----	-----	-----



GENERAL NOTES

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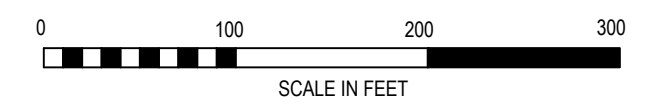
SOIL LEGEND

CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GdB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MaC	MANOR SILT LOAM, 8 TO 15 PERCENT SLOPES
MaD	MANOR SILT LOAM, 15 TO 25 PERCENT SLOPES

SITE RESTORATION LEGEND

--- (10')	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
--- (2')	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
---	UNREGULATED DITCH CENTERLINE	---	TREE LINE
---	WATERSHED DIVIDE BOUNDARY	---	TREE
---	WETLAND	---	EXISTING VALVE SITE STONE
---	WATER WELL	---	PROPOSED VALVE SITE STONE
---	PARCEL LINE	---	WETLAND PLANTING AREA
---	EXISTING ACCESS ROADS	---	
---	FENCE LINE	---	
---	EXISTING OVERHEAD POWER LINE	---	
---	EXISTING PIPELINE	---	
---	PROPOSED PIPELINE	---	
---	EXISTING RIGHT OF WAY	---	
---	NEW RIGHT OF WAY	---	
---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE HAZARD BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER IMPACT AREA	---	
---	150' RIPARIAN BUFFER	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	

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PETER P. HAAS, P.E.

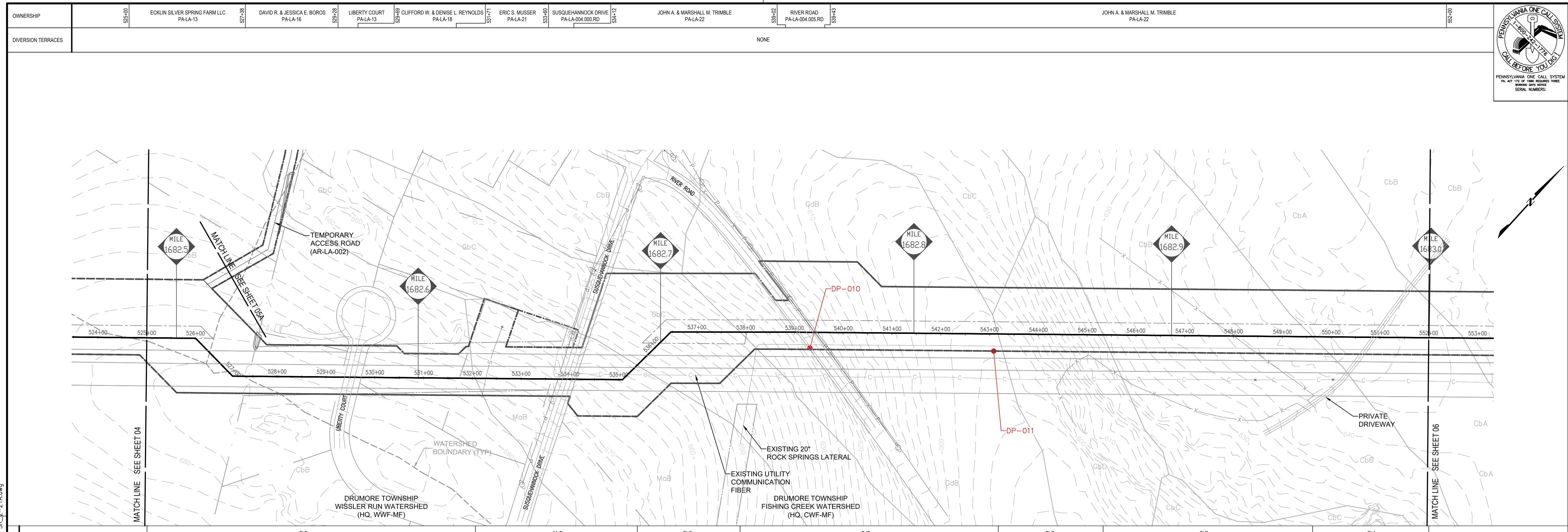
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 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE076971

REVISIONS

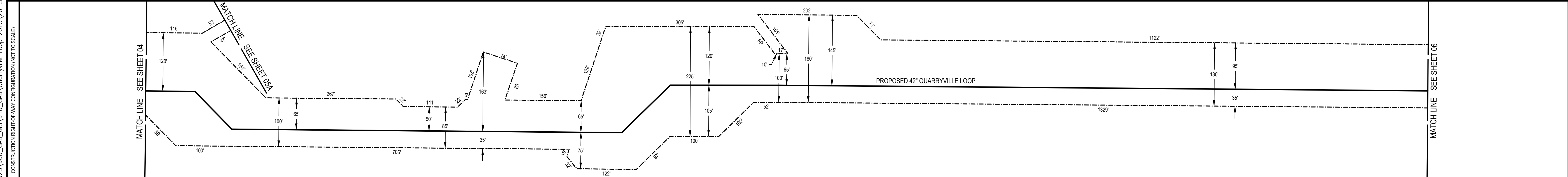
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.
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1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 04 OF 26
NO: 1185726			



STATIONS	DESCRIPTION
525+00	PI ± 45+00.00' RT.
526+00	EXISTING 30' TGPL MAINLINE "A"
527+00	EXISTING 30' TGPL MAINLINE "A"
528+00	PI ± 45+00.00' LT.
529+00	PI ± 45+00.00' LT.
530+00	PI ± 45+00.00' LT.
531+00	PI ± 45+00.00' LT.
532+00	PI ± 45+00.00' LT.
533+00	PI ± 45+00.00' LT.
534+00	PI ± 45+00.00' LT.
535+00	PI ± 45+00.00' LT.
536+00	PI ± 45+00.00' LT.
537+00	PI ± 45+00.00' LT.
538+00	PI ± 45+00.00' LT.
539+00	PI ± 45+00.00' LT.
540+00	PI ± 45+00.00' LT.
541+00	PI ± 45+00.00' LT.
542+00	PI ± 45+00.00' LT.
543+00	PI ± 45+00.00' LT.
544+00	PI ± 45+00.00' LT.
545+00	PI ± 45+00.00' LT.
546+00	PI ± 45+00.00' LT.
547+00	PI ± 45+00.00' LT.
548+00	PI ± 45+00.00' LT.
549+00	PI ± 45+00.00' LT.
550+00	PI ± 45+00.00' LT.
551+00	PI ± 45+00.00' LT.
552+00	PI ± 45+00.00' LT.
553+00	PI ± 45+00.00' LT.



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SOIL LEGEND

CbA	CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
GcC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
GdD	GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
MaB	MANOR SILT LOAM, 3 TO 8 PERCENT SLOPES

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
---	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
---	UNREGULATED DITCH CENTERLINE	---	TREE LINE
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---	EXISTING PIPELINE	---	
---	PROPOSED PIPELINE	---	
---	EXISTING RIGHT OF WAY	---	
---	NEW RIGHT OF WAY	---	
---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER IMPACT AREA	---	
---	150' RIPARIAN BUFFER	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	

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Scale in Feet: 0, 100, 200, 300

PHG
 150' RIPARIAN BUFFER IMPACT AREA
 150' RIPARIAN BUFFER
 CHANNEL LINER
 50' PADEP FLOODWAY

PETER P. HAAS, P.E.

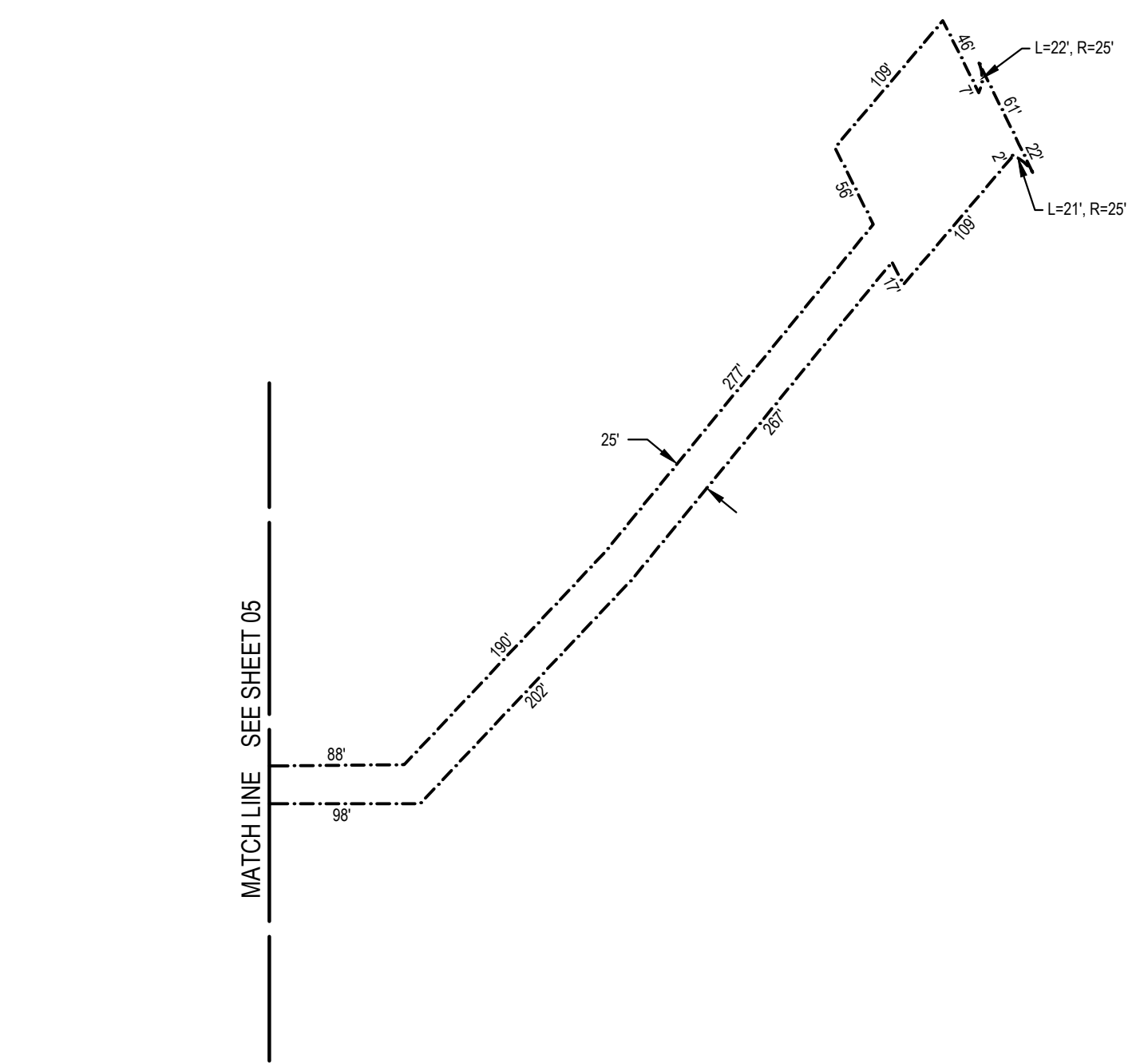
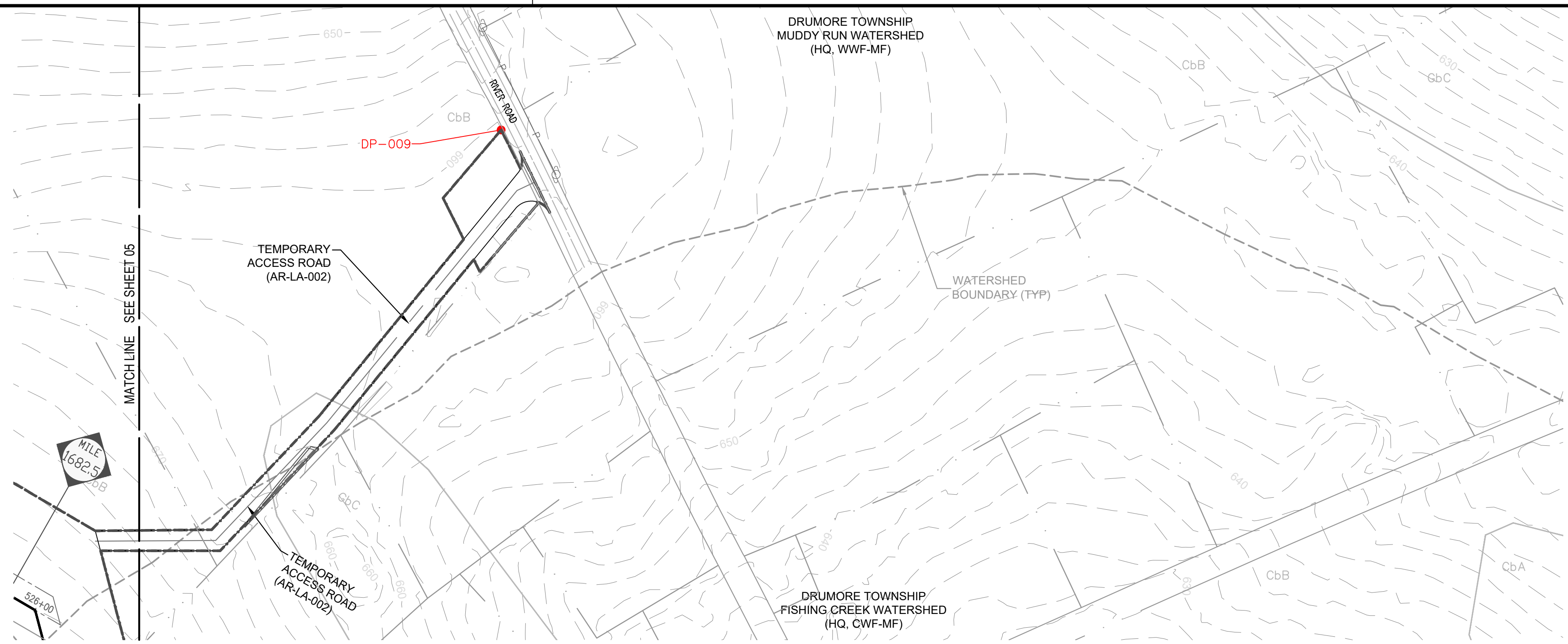
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 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE076971

REVISIONS

NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.
0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 05
NO: 1185726			OF 26



Drawn By: & Date/Time: WisayantonaA Aug 22, 2025 12:01pm
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SOIL LEGEND

CbA	CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
GbD	GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES
GbE	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MbD	MANOR VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
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---	PROPOSED PIPELINE		
---	EXISTING RIGHT OF WAY		
---	NEW RIGHT OF WAY		
---	FEMA FLOOD HAZARD ZONES		
---	SOIL TYPE BOUNDARY		
---	SOIL TYPE		
---	150' RIPARIAN BUFFER IMPACT AREA		
---	150' RIPARIAN BUFFER		
---	CHANNEL LINER		
---	50' PADEP FLOODWAY		

PETER P. HAAS, P.E.

 08/22/2025
 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE078971

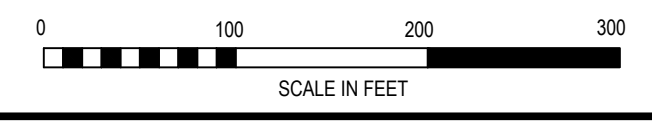
REVISIONS

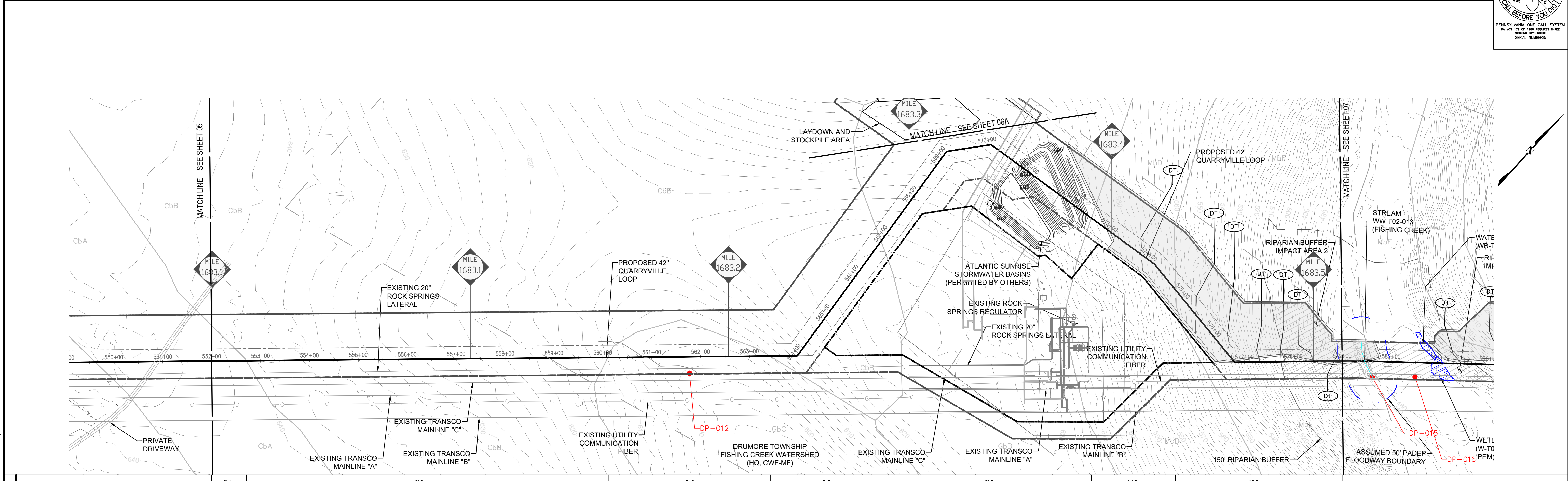
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0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

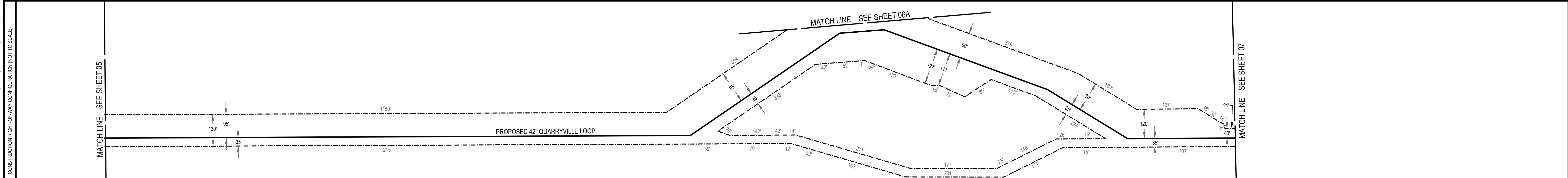
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APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 05A
NO: 1185726			OF 26

AECOM
 625 WEST RIDGE PIKE, SUITE E-100
 CONSHOHOCKEN, PA 19428
 (610) 832-3500





STATIONS	CbA	CbB	CbC	CbD	CbE	MbD	MbF
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GENERAL NOTES

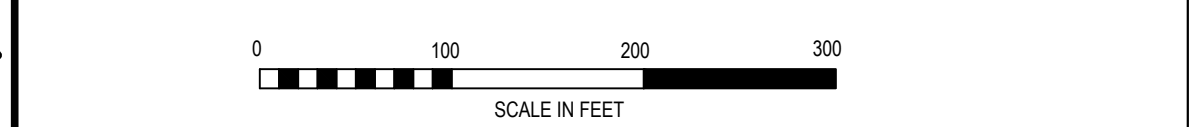
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CbA	CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
MbD	MANOR VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES
MbF	MANOR VERY STONY SILT LOAM, 25 TO 60 PERCENT SLOPES

SITE RESTORATION LEGEND

<ul style="list-style-type: none"> EXISTING MAJOR CONTOUR (10') EXISTING MINOR CONTOUR (2') STREAM CENTERLINE UNREGULATED DITCH CENTERLINE WATERSHED DIVIDE BOUNDARY WETLAND WATER WELL PARCEL LINE EXISTING ACCESS ROADS FENCE LINE EXISTING OVERHEAD POWER LINE EXISTING PIPELINE PROPOSED PIPELINE EXISTING RIGHT OF WAY NEW RIGHT OF WAY FEMA FLOOD HAZARD ZONES SOIL TYPE BOUNDARY SOIL TYPE 150' RIPARIAN BUFFER IMPACT AREA 150' RIPARIAN BUFFER CHANNEL LINER 50' PADEP FLOODWAY 	<ul style="list-style-type: none"> LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY DIVERSION TERRACE TREE CLEARING AREA TREE LINE TREE EXISTING VALVE SITE STONE PROPOSED VALVE SITE STONE WETLAND PLANTING AREA
--	---



PETER P. HAAS, P.E.

08/22/2025
DATE

PENNSYLVANIA
PROFESSIONAL ENGINEER NO. PE076971

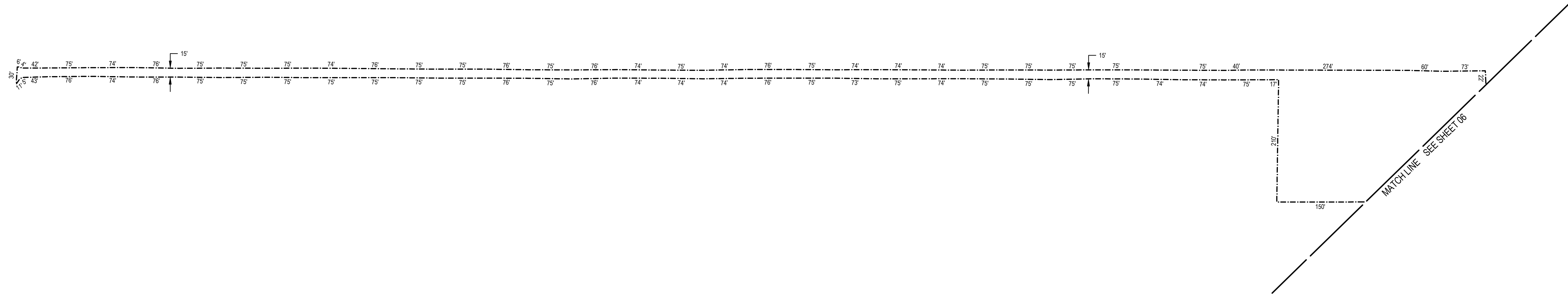
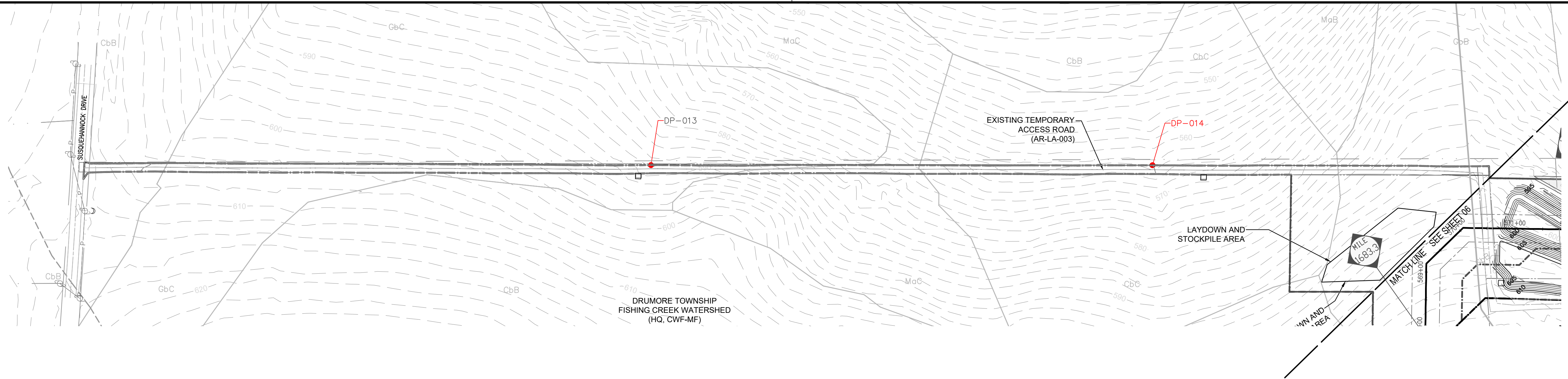
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NO: 1185726			OF 26

Drawn By: & Date/Time: WisayantonaA Aug 21, 2025 11:50pm
Drawing Location & Name: L:\DCS\Projects\ENV\60757472_WMS_NESE_2025\900_CAD_GIS\910_CAD\Quarryville Loop 2025\20-SHEETS\SR\02 - Quarryville SR_2-21A.dwg



GENERAL NOTES

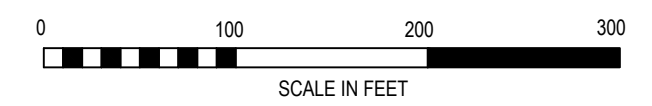
1. THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. ALL MILE POSTS AND STATIONING ARE BASED ON MAIN LINE "D" STATIONING.
3. BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83.
4. WITH THE EXCEPTION OF TREE CLEARING AS INDICATED, PROPOSED LAND USE AND COVER IS TO MATCH EXISTING.
5. SEE SHEET 23 FOR VEGETATION RESTORATION SPECIFICATIONS.

SOIL LEGEND

CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
MaC	MANOR SILT LOAM, 8 TO 15 PERCENT SLOPES

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
---	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
---	UNREGULATED DITCH CENTERLINE	---	TREE LINE
---	WATERSHED DIVIDE BOUNDARY	---	TREE
---	WETLAND	---	EXISTING VALVE SITE STONE
---	WATER WELL	---	PROPOSED VALVE SITE STONE
---	PARCEL LINE	---	WETLAND PLANTING AREA
---	EXISTING ACCESS ROADS	---	
---	FENCE LINE	---	
---	EXISTING OVERHEAD POWER LINE	---	
---	EXISTING PIPELINE	---	
---	PROPOSED PIPELINE	---	
---	EXISTING RIGHT OF WAY	---	
---	NEW RIGHT OF WAY	---	
---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER IMPACT AREA	---	
---	150' RIPARIAN BUFFER	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	



PETER P. HAAS, P.E.

08/22/2025
DATE

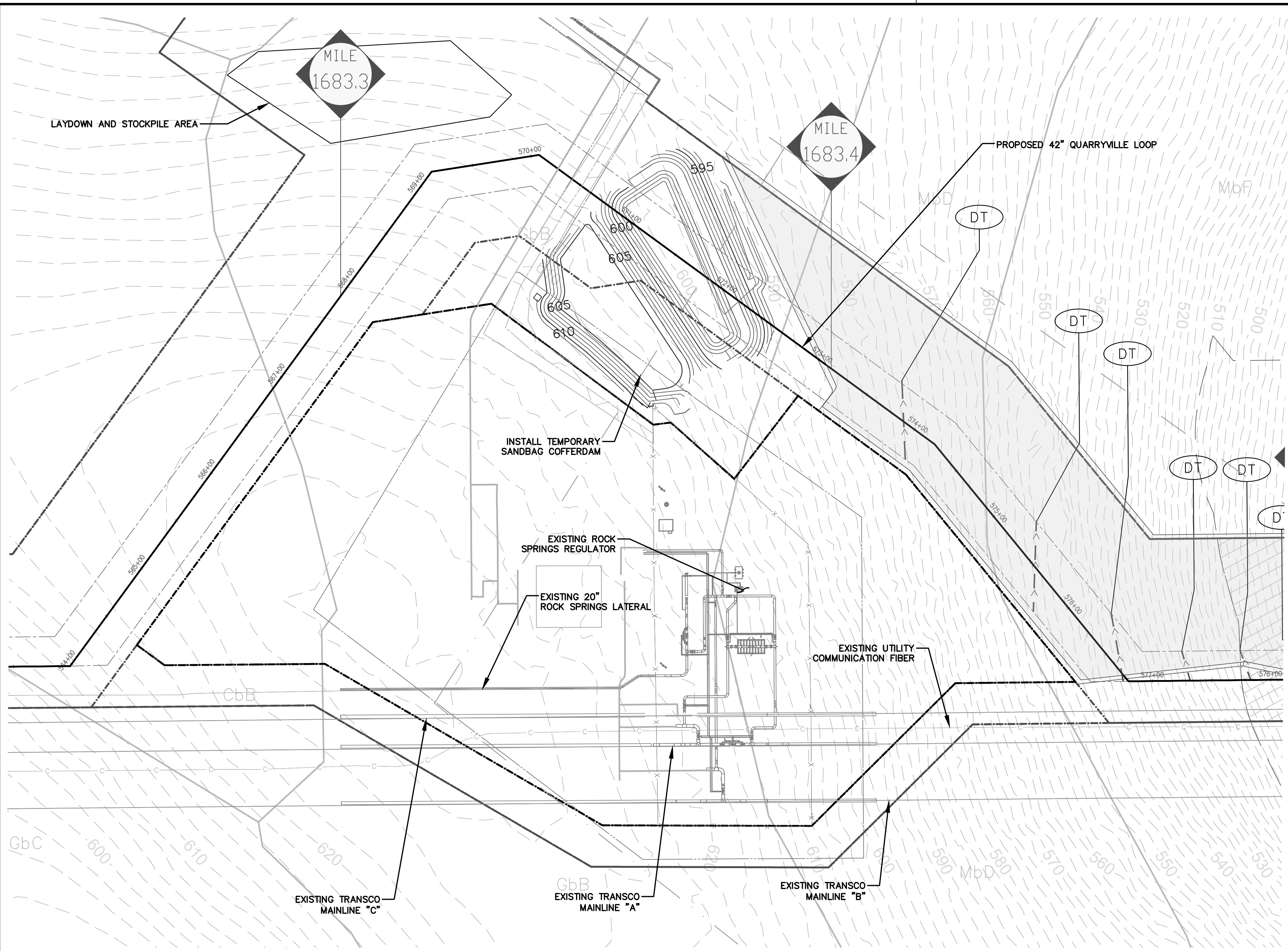
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PROFESSIONAL ENGINEER NO. PE076971

REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
SITE RESTORATION PLAN
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED 42" QUARRYVILLE LOOP
M.P. 1681.02 TO M.P. 1691.16
LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 06A
NO: 1185726			OF 26

Drawn By & Date/Time: Wisayantona Aug 21, 2025 11:57am
Drawing Location & Name: L:\DCS\Projects\ENV\60757472_WMS_NESE_2025\900_CAD_GIS\910_CAD\Quarryville Loop 2025\20-SHEETS\SRV02 - Quarryville SR_P-21A.dwg



GENERAL NOTES

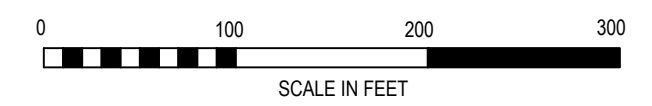
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SOIL LEGEND

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CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
MaC	MANOR SILT LOAM, 8 TO 15 PERCENT SLOPES

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	UNREGULATED DITCH CENTERLINE		TREE LINE
	WATERSHED DIVIDE BOUNDARY		TREE
	WETLAND		EXISTING VALVE SITE STONE
	WATER WELL		PROPOSED VALVE SITE STONE
	PARCEL LINE		WETLAND PLANTING AREA
	EXISTING ACCESS ROADS		
	FENCE LINE		
	EXISTING OVERHEAD POWER LINE		
	EXISTING PIPELINE		
	PROPOSED PIPELINE		
	EXISTING RIGHT OF WAY		
	NEW RIGHT OF WAY		
	FEMA FLOOD HAZARD ZONES		
	SOIL TYPE BOUNDARY		
	SOIL TYPE		
	150' RIPARIAN BUFFER IMPACT AREA		
	150' RIPARIAN BUFFER		
	CHANNEL LINER		
	50' PADEP FLOODWAY		



PETER P. HAAS, P.E.

 08/22/2025
 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE078971

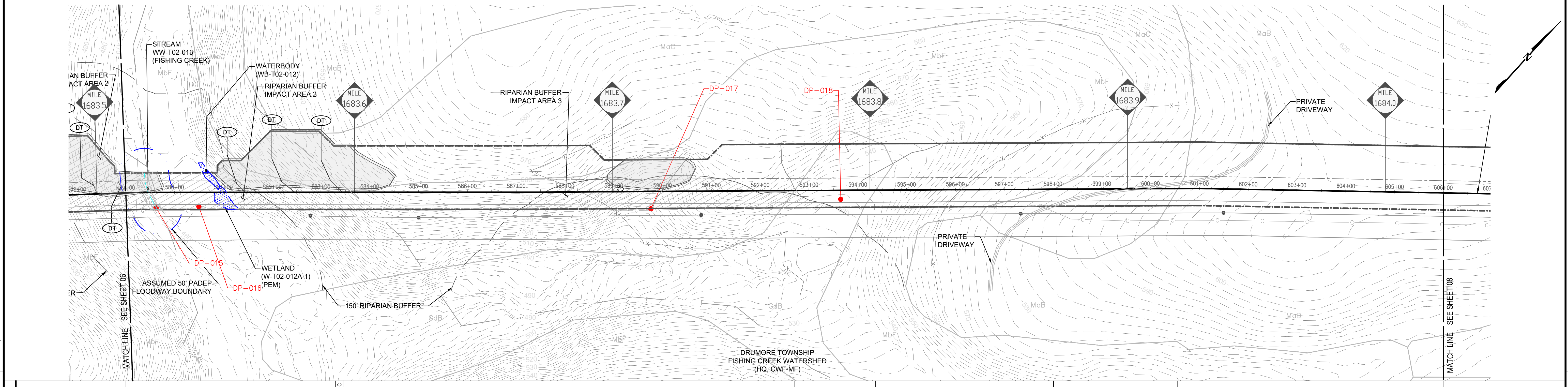
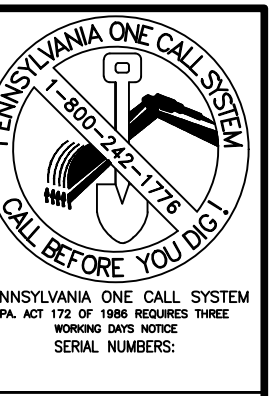
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 625 WEST RIDGE PIKE, SUITE E-100
 CONSHOHOCKEN, PA 19428
 (610) 832-3500

REVISIONS						
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2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

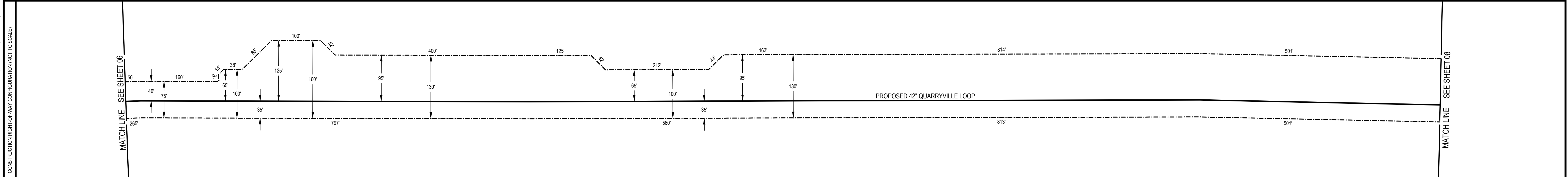
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 06B
NO: 1185726			OF 26

Drawn By & Date/Time: WisayantonaA Aug 21, 2025 11:53pm
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579+00	581+45	582+46	583+42	588+32	589+05	589+15	599+37	599+45	599+46	599+46	606+00
MbF	MbF	MbF	MbF	GdB	MbF	McC	MbB				



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SOIL LEGEND

GdB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MbB	MANOR SILT LOAM, 3 TO 8 PERCENT SLOPES
McC	MANOR SILT LOAM, 8 TO 15 PERCENT SLOPES
MbF	MANOR VERY STONY SILT LOAM, 25 TO 80 PERCENT SLOPES

SITE RESTORATION LEGEND

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---	PROPOSED PIPELINE		
---	EXISTING RIGHT OF WAY		
---	NEW RIGHT OF WAY		
---	FEMA FLOOD HAZARD ZONES		
---	SOIL TYPE BOUNDARY		
---	SOIL TYPE		
---	RIPARIAN BUFFER IMPACT AREA		
---	150' RIPARIAN BUFFER		
---	CHANNEL LINER		
---	50' PADEP FLOODWAY		

PETER P. HAAS, P.E.

 08/22/2025
 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE076971

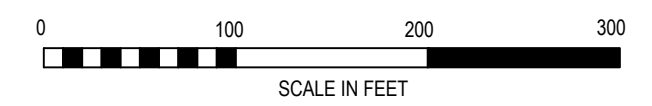
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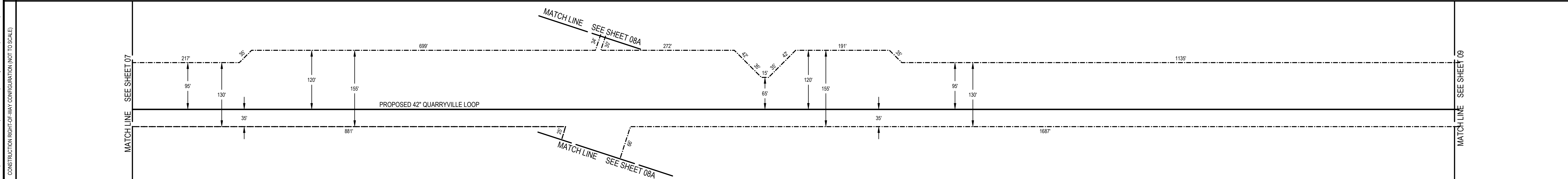
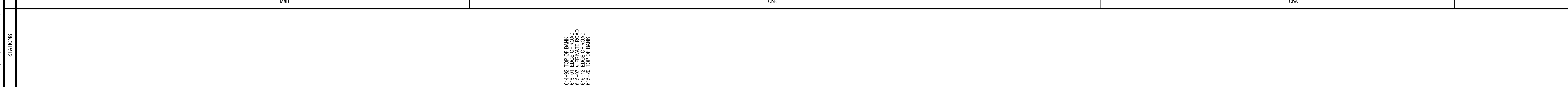
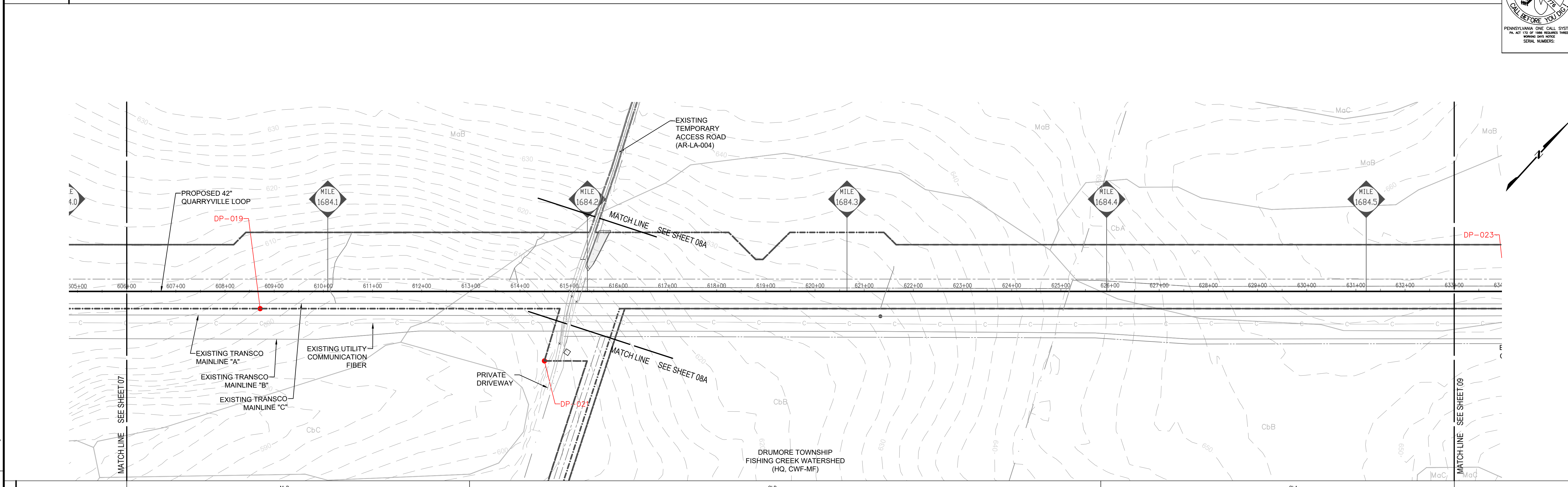
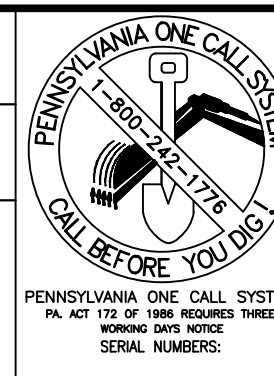
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 07
NO: 1185726			OF 26

Drawn By: WisyantoneA Aug 22, 2025 12:03pm
 Drawing Location: L:\DCS\Projects\ENV\60757472_WMS_NESE_2025\900_CAD_GIS\910_CAD\Quarryville Loop 2025\20-SHEETS\SR\02 - Quarryville SR_2-21A.dwg
 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)





GENERAL NOTES

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SOIL LEGEND

CbA	CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
MaB	MANOR SILT LOAM, 8 TO 15 PERCENT SLOPES

SITE RESTORATION LEGEND

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---	SOIL TYPE BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER IMPACT AREA	---	
---	150' RIPARIAN BUFFER	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	

PETER P. HAAS, P.E.

 DATE: 08/22/2025
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE078971

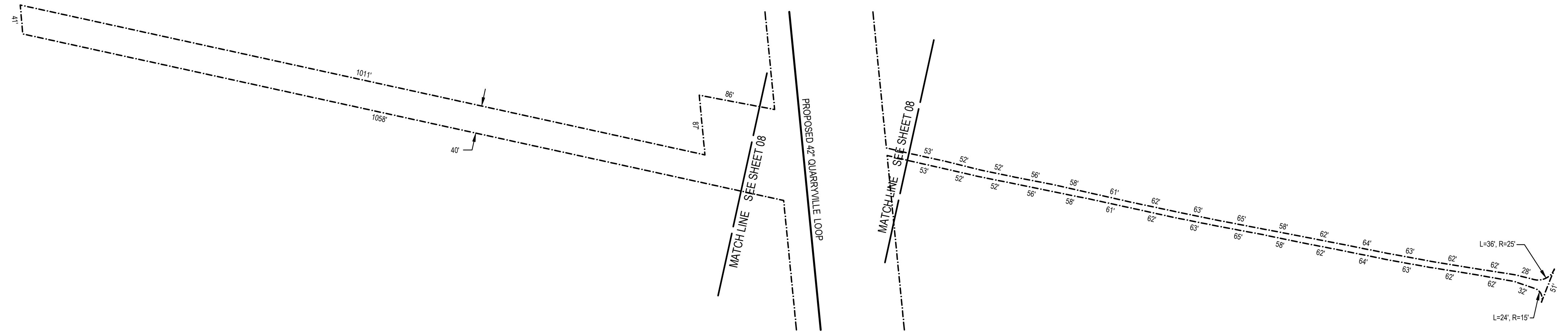
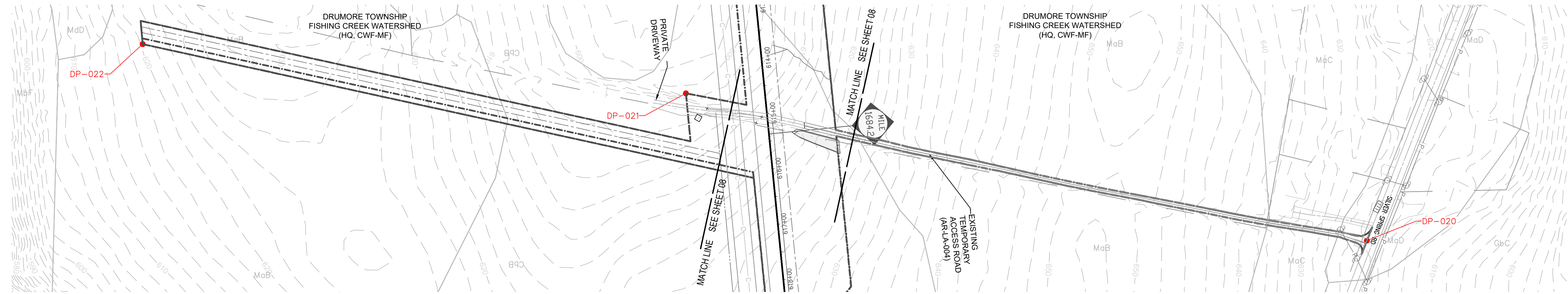
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NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 08
NO: 1185726			OF 26

Drawn By & Date/Time: WisayantonaA Aug 22, 2025 12:05pm
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GENERAL NOTES

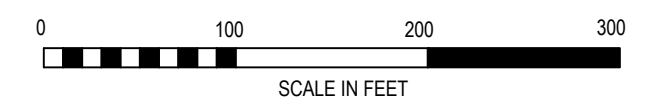
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GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
GbD	GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES
GbE	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
MbD	MANOR VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES

SITE RESTORATION LEGEND

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PETER P. HAAS, P.E.

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 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE078971

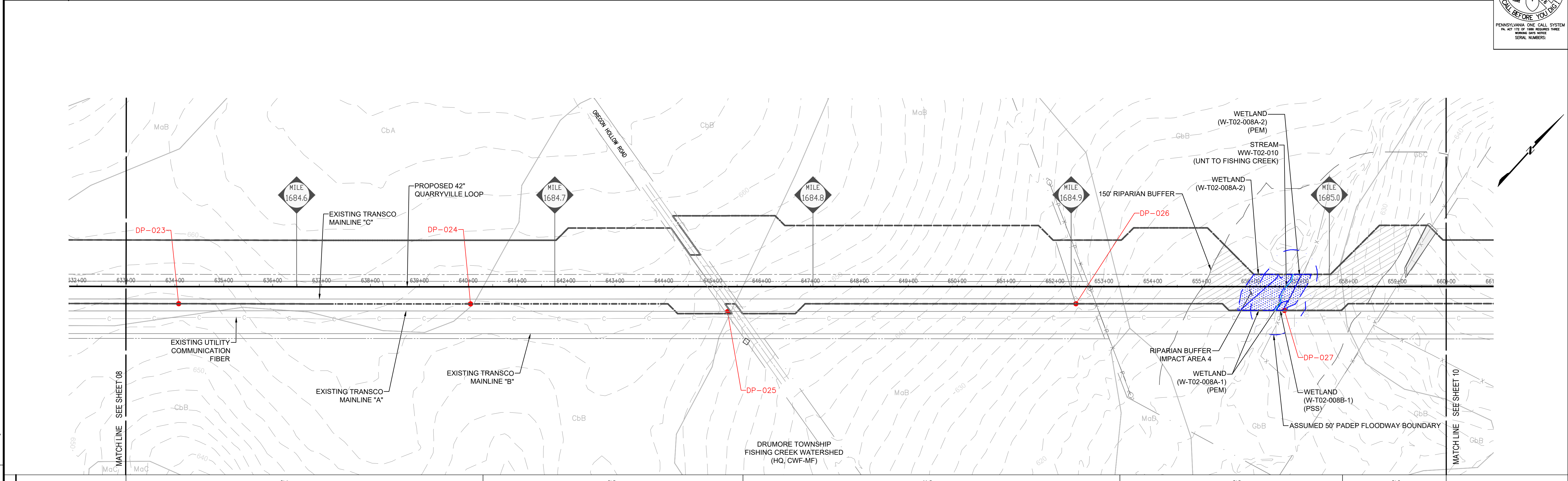
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 LANCASTER COUNTY, PENNSYLVANIA

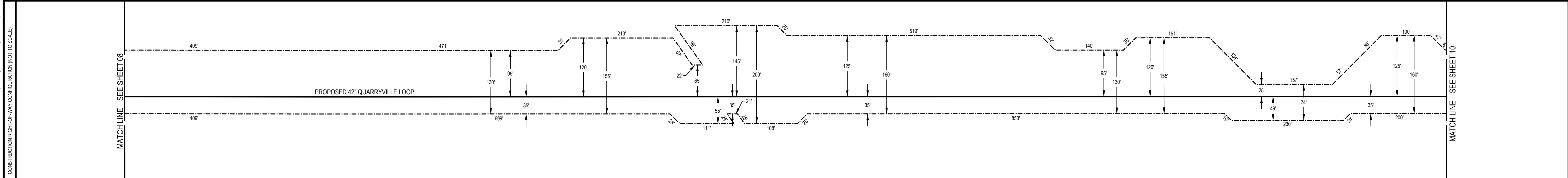
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APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 08A
NO: 1185726			OF 26

Drawn By & Date/Time: WisvontanoA Aug 22, 2025 12:06pm
 Drawing Location & Name: L:\DCS\Projects\ENV\60757472_WMS_NESE_2025\900_CAD_GIS\910_CAD\Quarryville Loop 2025\20-SHEETS\SR\02 - Quarryville SR_D-21A.dwg

OWNERSHIP	633+00	CLAIR G. BURKHOLDER, ET AL PA-LA-32	638+27	CLAIR G. BURKHOLDER, ET AL PA-LA-31	644+89	OREGON HOLLOW ROAD PA-LA-005.000.RD	645+30	CLAIR G. BURKHOLDER, ET AL PA-LA-31	662+69	ISAAC A. & NAOMI ESH PA-LA-34	669+02	GIDEON S. & LYDIA BEILER PA-LA-35	680+00
DIVERSION TERRACES	NONE												



STATIONS	632+00	633+00	634+00	635+00	636+00	637+00	638+00	639+00	640+00	641+00	642+00	643+00	644+00	645+00	646+00	647+00	648+00	649+00	650+00	651+00	652+00	653+00	654+00	655+00	656+00	657+00	658+00	659+00	660+00	661+00
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---	PROPOSED PIPELINE	---	
---	EXISTING RIGHT OF WAY	---	
---	NEW RIGHT OF WAY	---	
---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER IMPACT AREA	---	
---	150' RIPARIAN BUFFER	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	



PETER P. HAAS, P.E.

 08/22/2025
 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE076971

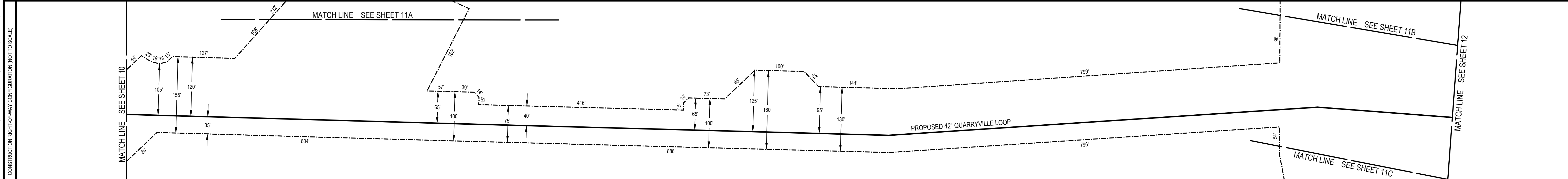
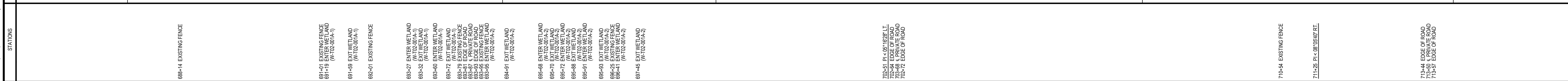
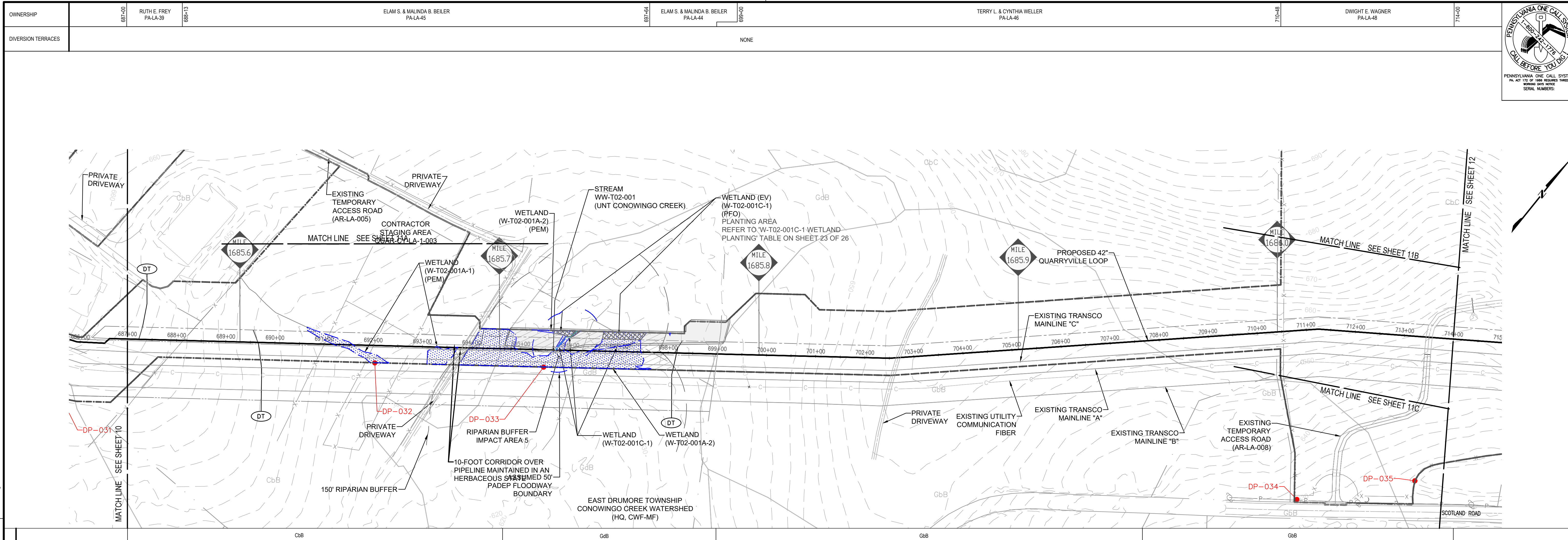
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NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 09
NO: 1185726			OF 26

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 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)



GENERAL NOTES

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- WITH THE EXCEPTION OF TREE CLEARING AS INDICATED, PROPOSED LAND USE AND COVER IS TO MATCH EXISTING.
- SEE SHEET 23 FOR VEGETATION RESTORATION SPECIFICATIONS.

SOIL LEGEND

CbB CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
 GbB GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
 GbB GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES

SITE RESTORATION LEGEND

- EXISTING MAJOR CONTOUR (10')
- EXISTING MINOR CONTOUR (2')
- STREAM CENTERLINE
- UNREGULATED DITCH CENTERLINE
- WATERSHED DIVIDE BOUNDARY
- WETLAND
- WATER WELL
- PARCEL LINE
- EXISTING ACCESS ROADS
- FENCE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING PIPELINE
- PROPOSED PIPELINE
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- FEMA FLOOD HAZARD ZONES
- SOIL TYPE BOUNDARY
- SOIL TYPE
- RIPIARIAN BUFFER IMPACT AREA
- 150' RIPIARIAN BUFFER
- CHANNEL LINER
- 50' PADEP FLOODWAY
- LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
- DIVERSION TERRACE
- TREE CLEARING AREA
- TREE LINE
- TREE
- EXISTING VALVE SITE STONE
- PROPOSED VALVE SITE STONE
- WETLAND PLANTING AREA

PETER P. HAAS, P.E.
 REGISTERED PROFESSIONAL ENGINEER
 06/13/2025
 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE078971

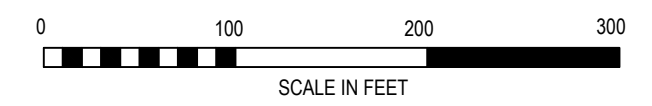
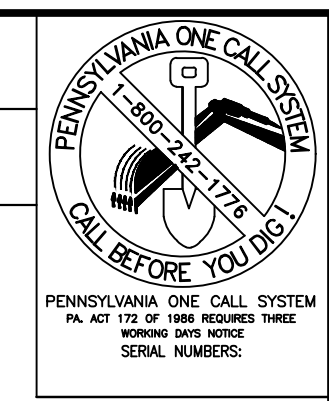
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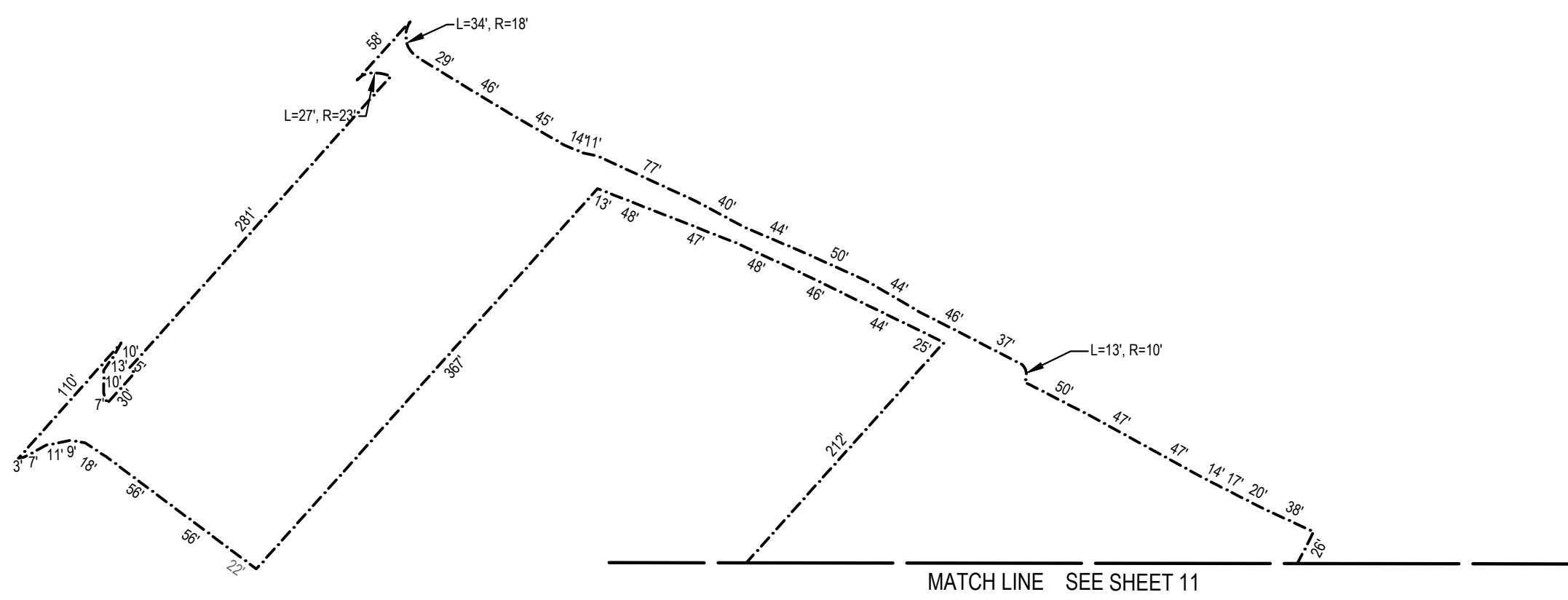
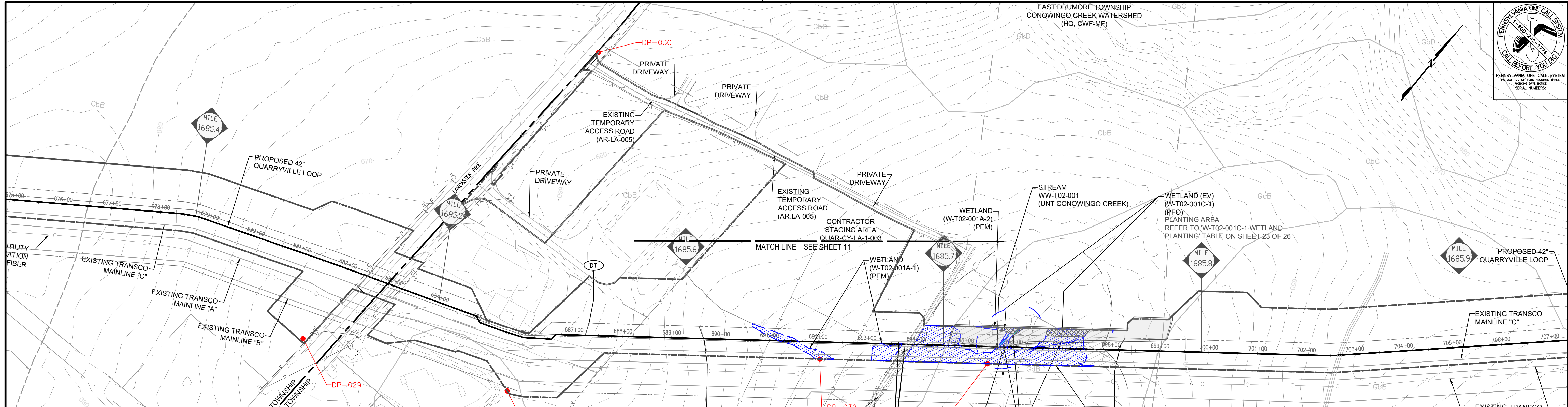
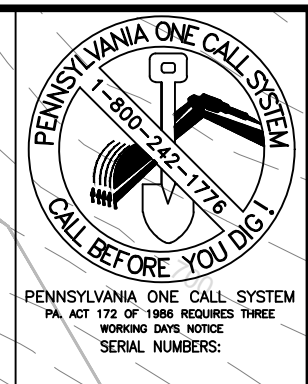
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

Williams
 GAS PIPELINE

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 11
WO: 1185726			OF 26

Drawn By: & Date/Time: WisayantonaA Aug 22, 2025 - 12:12:00am
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 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)





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GENERAL NOTES	
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3.	BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83.
4.	WITH THE EXCEPTION OF TREE CLEARING AS INDICATED, PROPOSED LAND USE AND COVER IS TO MATCH EXISTING.
5.	SEE SHEET 23 FOR VEGETATION RESTORATION SPECIFICATIONS.

SOIL LEGEND	
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
GbD	GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES
MbB	MANOR SILT LOAM, 3 TO 8 PERCENT SLOPES
MbD	MANOR SILT LOAM, 15 TO 25 PERCENT SLOPES

SITE RESTORATION LEGEND	
	EXISTING MAJOR CONTOUR (10')
	EXISTING MINOR CONTOUR (2')
	STREAM CENTERLINE
	UNREGULATED DITCH CENTERLINE
	WATERSHED DIVIDE BOUNDARY
	WETLAND
	WATER WELL
	PARCEL LINE
	EXISTING ACCESS ROADS
	FENCE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING PIPELINE
	PROPOSED PIPELINE
	EXISTING RIGHT OF WAY
	NEW RIGHT OF WAY
	FEMA FLOOD HAZARD ZONES
	SOIL TYPE BOUNDARY
	SOIL TYPE
	150' RIPARIAN BUFFER IMPACT AREA
	150' RIPARIAN BUFFER
	CHANNEL LINER
	50' PADEP FLOODWAY
	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
	DIVERSION TERRACE
	TREE CLEARING AREA
	TREE LINE
	TREE
	EXISTING VALVE SITE STONE
	PROPOSED VALVE SITE STONE
	WETLAND PLANTING AREA

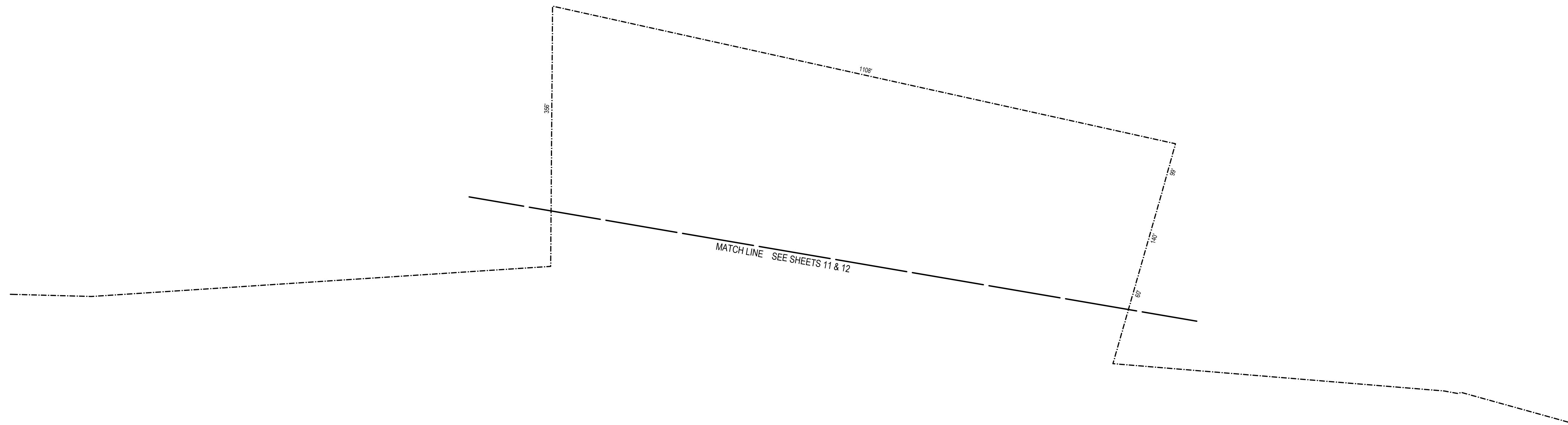
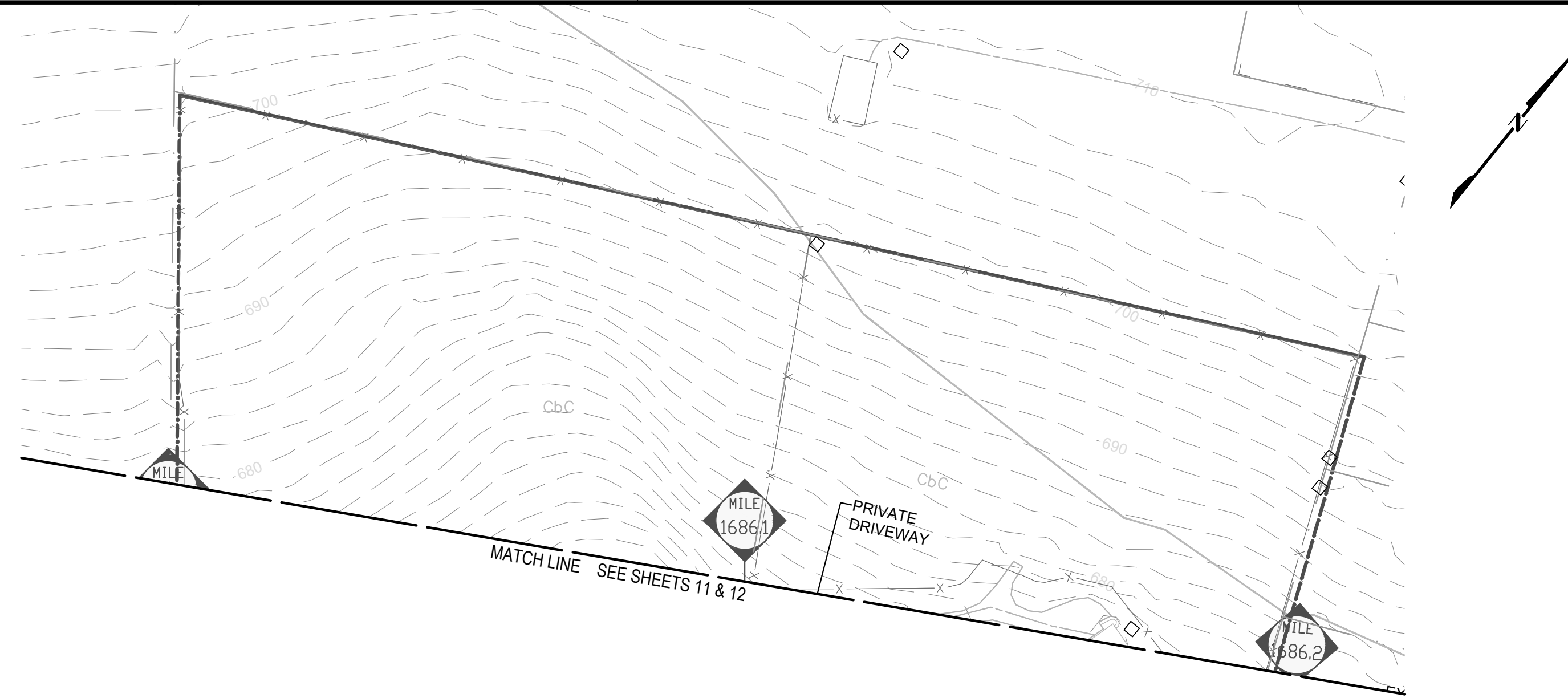
PETER P. HAAS, P.E.

 08/22/2025
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 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE078971

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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
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 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

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APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 11A
WO: 1185726			OF 26



GENERAL NOTES

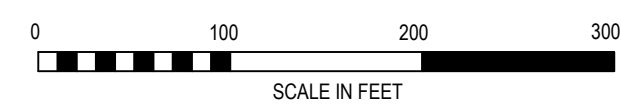
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SOIL LEGEND

- | | |
|-----|--|
| CbB | CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES |
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| GbD | GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES |
| MaB | MANOR SILT LOAM, 3 TO 8 PERCENT SLOPES |
| MaD | MANOR SILT LOAM, 15 TO 25 PERCENT SLOPES |

SITE RESTORATION LEGEND

- | | | | |
|-----|----------------------------------|-----|--|
| --- | EXISTING MAJOR CONTOUR (10') | --- | LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY |
| --- | EXISTING MINOR CONTOUR (2') | --- | DIVERSION TERRACE |
| --- | STREAM CENTERLINE | --- | TREE CLEARING AREA |
| --- | UNREGULATED DITCH CENTERLINE | --- | TREE LINE |
| --- | WATERSHED DIVIDE BOUNDARY | --- | TREE |
| --- | WETLAND | --- | EXISTING VALVE SITE STONE |
| --- | WATER WELL | --- | PROPOSED VALVE SITE STONE |
| --- | PARCEL LINE | --- | WETLAND PLANTING AREA |
| --- | EXISTING ACCESS ROADS | | |
| --- | FENCE LINE | | |
| --- | EXISTING OVERHEAD POWER LINE | | |
| --- | EXISTING PIPELINE | | |
| --- | PROPOSED PIPELINE | | |
| --- | EXISTING RIGHT OF WAY | | |
| --- | NEW RIGHT OF WAY | | |
| --- | FEMA FLOOD HAZARD ZONES | | |
| --- | SOIL TYPE BOUNDARY | | |
| --- | SOIL TYPE | | |
| --- | 150' RIPARIAN BUFFER IMPACT AREA | | |
| --- | 150' RIPARIAN BUFFER | | |
| --- | CHANNEL LINER | | |
| --- | 50' PADEP FLOODWAY | | |



PETER P. HAAS, P.E.

08/22/2025
DATE

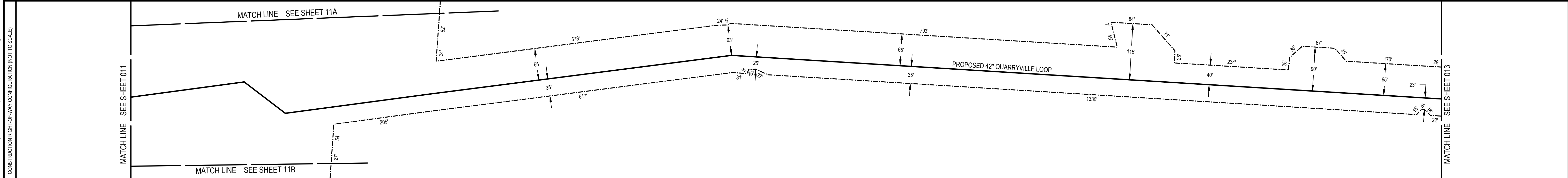
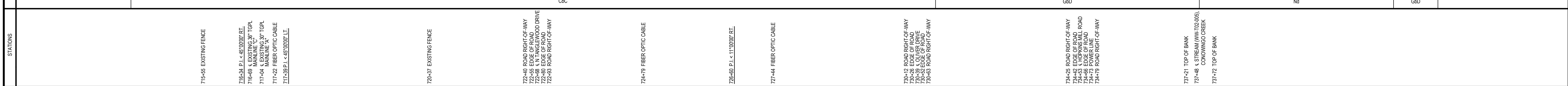
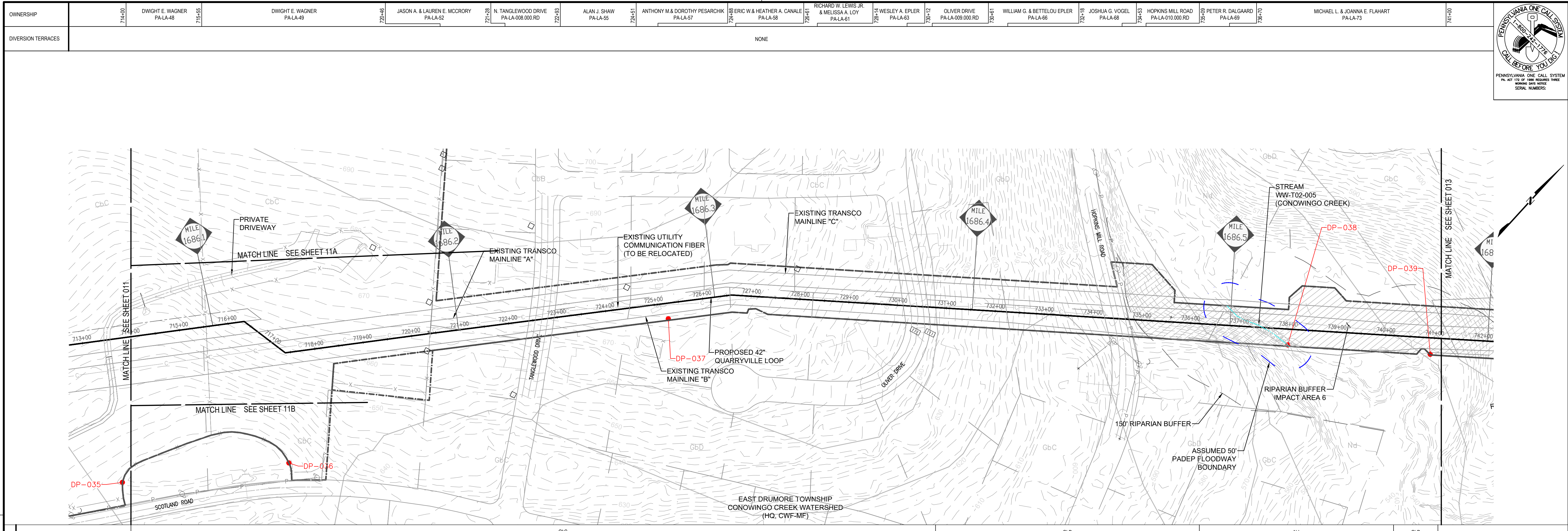
PENNSYLVANIA
PROFESSIONAL ENGINEER NO. PE076971

REVISIONS						
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
SITE RESTORATION PLAN
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED 42" QUARRYVILLE LOOP
M.P. 1681.02 TO M.P. 1691.16
LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 11B
IWO: 1185726			OF 26

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GENERAL NOTES

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SOIL LEGEND

	WETLAND
	WATER WELL
	PARCEL LINE
	EXISTING ACCESS ROADS
	FENCE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING PIPELINE
	PROPOSED PIPELINE
	EXISTING RIGHT OF WAY
	NEW RIGHT OF WAY
	FEMA FLOOD HAZARD ZONES
	SOIL TYPE BOUNDARY
	SOIL TYPE
	150' RIPARIAN BUFFER
	CHANNEL LINER
	50' PADEP FLOODWAY

SITE RESTORATION LEGEND

	EXISTING MAJOR CONTOUR (10')		LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
	EXISTING MINOR CONTOUR (2')		DIVERSION TERRACE
	STREAM CENTERLINE		TREE CLEARING AREA
	UNREGULATED DITCH CENTERLINE		TREE LINE
	WATERSHED DIVIDE BOUNDARY		TREE
	WETLAND		EXISTING VALVE SITE STONE
	WATER WELL		PROPOSED VALVE SITE STONE
	PARCEL LINE		WETLAND PLANTING AREA
	EXISTING ACCESS ROADS		
	FENCE LINE		
	EXISTING OVERHEAD POWER LINE		
	EXISTING PIPELINE		
	PROPOSED PIPELINE		
	EXISTING RIGHT OF WAY		
	NEW RIGHT OF WAY		
	FEMA FLOOD HAZARD ZONES		
	SOIL TYPE BOUNDARY		
	SOIL TYPE		
	150' RIPARIAN BUFFER		
	CHANNEL LINER		
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PETER P. HAAS, P.E.

 08/22/2025
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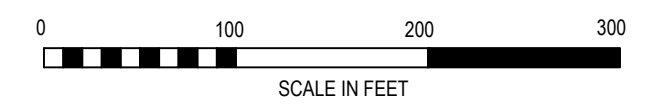
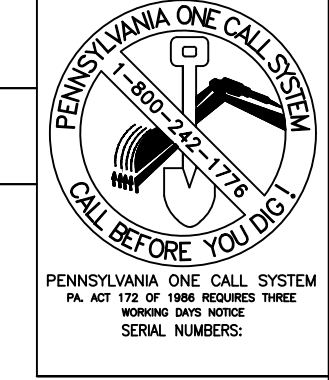
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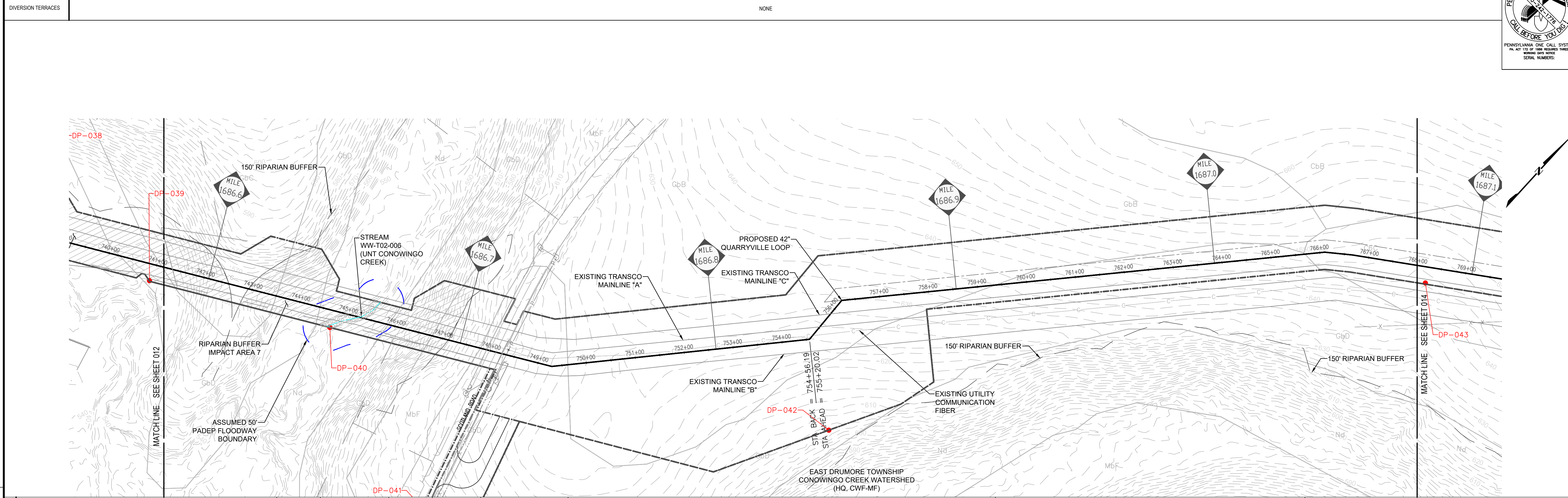
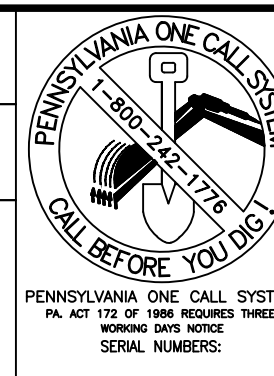
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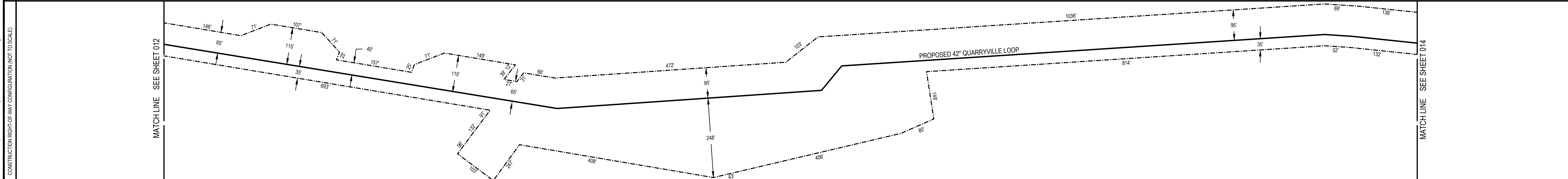
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STATIONS	DESCRIPTION
744+88	TOP OF BANK
749+25	STREAM (WW-T02-006) UNIT CONOWING CREEK
748+4	TOP OF BANK
747+97	EDGE OF ROAD
747+97	EDGE OF DRIVEWAY
747+97	EDGE OF DRIVEWAY (STATE HWY 3010)
748+25	EDGE OF DRIVEWAY
748+32	ROAD RIGHT-OF-WAY
748+42	TOP OF BANK
749+25	P.I. < 20' 27" T.L.L.
755+25	P.I. < 45' 10" T.L.L.
755+25	DIFF. 64
755+25	BK = 754-86
755+25	DIFF. 64
755+25	EXISTING 30" T.C.P.E. MAINLINE "A"
755+25	EXISTING 30" T.C.P.E. MAINLINE "A"
755+25	P.I. < 44' 10" T.L.L.
768+10	P.I. < 11' 29" T.L.L.
768+62	P.I. < 03' 20" T.L.L.



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SOIL LEGEND

	WETLAND
	WATER WELL
	PARCEL LINE
	EXISTING ACCESS ROADS
	FENCE LINE
	EXISTING OVERHEAD POWER LINE
	EXISTING PIPELINE
	PROPOSED PIPELINE
	EXISTING RIGHT OF WAY
	NEW RIGHT OF WAY
	FEMA FLOOD HAZARD ZONES
	SOIL TYPE BOUNDARY
	SOIL TYPE
	150' RIPARIAN BUFFER IMPACT AREA
	CHANNEL LINER
	50' PADEP FLOODWAY

SITE RESTORATION LEGEND

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	EXISTING MINOR CONTOUR (2')
	STREAM CENTERLINE
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	WATERSHED DIVIDE BOUNDARY
	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
	DIVERSION TERRACE
	TREE CLEARING AREA
	TREE LINE
	TREE
	EXISTING VALVE SITE STONE
	PROPOSED VALVE SITE STONE
	WETLAND PLANTING AREA



PHG

AECOM
625 WEST RIDGE PIKE, SUITE E-100
CONSHOHOCKEN, PA 19428
(610) 832-3500

PETER P. HAAS, P.E.
PROFESSIONAL ENGINEER NO. PE076971
DATE: 08/22/2025
PENNSYLVANIA

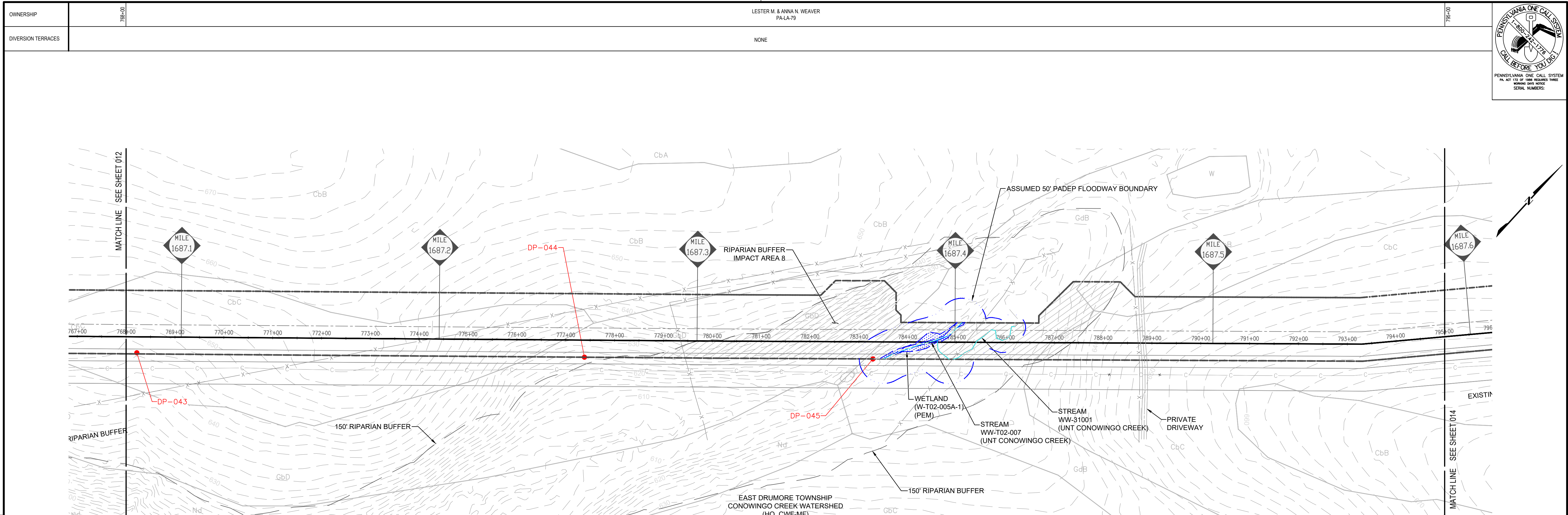
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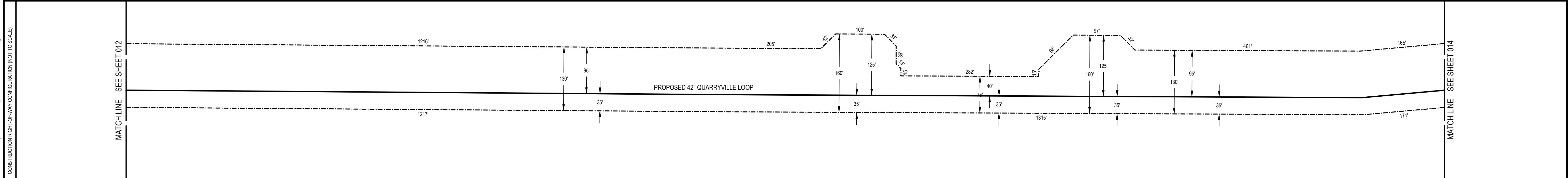
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LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 13
NO: 1185726			OF 26

Drawn By: & Date/Time: WisayantonaA Aug 21, 2025 8:15pm
Drawing Location & Name: C:\Users\WISA\OneDrive\Temp\AcPublish\371140\02 - Quarryville_SF_2-21A.dwg



STATIONS	767+00	768+00	769+00	770+00	771+00	772+00	773+00	774+00	775+00	776+00	777+00	778+00	779+00	780+00	781+00	782+00	783+00	784+00	785+00	786+00	787+00	788+00	789+00	790+00	791+00	792+00	793+00	794+00	795+00	796+00



GENERAL NOTES

- THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- ALL MILE POSTS AND STATIONING ARE BASED ON MAIN LINE "D" STATIONING.
- BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83.
- WITH THE EXCEPTION OF TREE CLEARING AS INDICATED, PROPOSED LAND USE AND COVER IS TO MATCH EXISTING.
- SEE SHEET 23 FOR VEGETATION RESTORATION SPECIFICATIONS.

SOIL LEGEND

CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GdD	GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES
GdB	GLENNVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
---	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
---	UNREGULATED DITCH CENTERLINE	---	TREE LINE
---	WATERSHED DIVIDE BOUNDARY	---	TREE
---	WETLAND	---	EXISTING VALVE SITE STONE
---	WATER WELL	---	PROPOSED VALVE SITE STONE
---	PARCEL LINE	---	WETLAND PLANTING AREA
---	EXISTING ACCESS ROADS	---	
---	FENCE LINE	---	
---	EXISTING OVERHEAD POWER LINE	---	
---	EXISTING PIPELINE	---	
---	PROPOSED PIPELINE	---	
---	EXISTING RIGHT OF WAY	---	
---	NEW RIGHT OF WAY	---	
---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE BOUNDARY	---	
---	SOIL TYPE	---	
---	RIPARIAN BUFFER IMPACT AREA	---	
---	150' RIPARIAN BUFFER	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	

PETER P. HAAS, P.E.

 08/22/2025
 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE076971

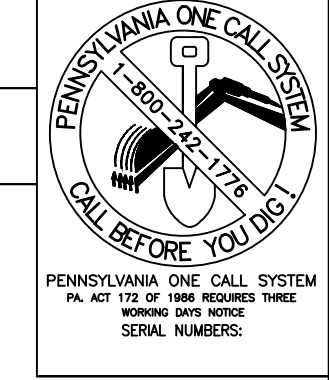
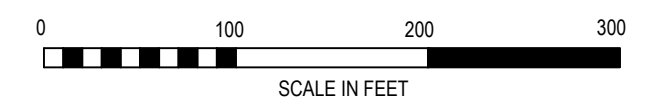
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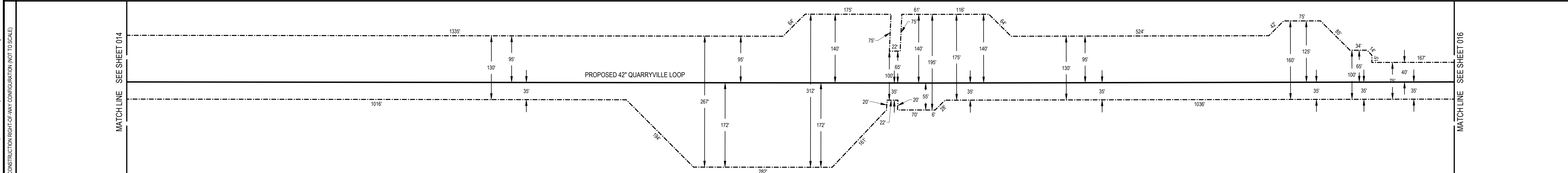
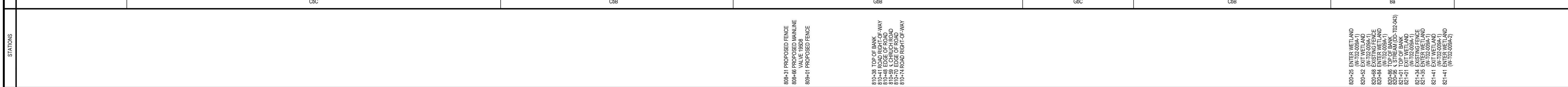
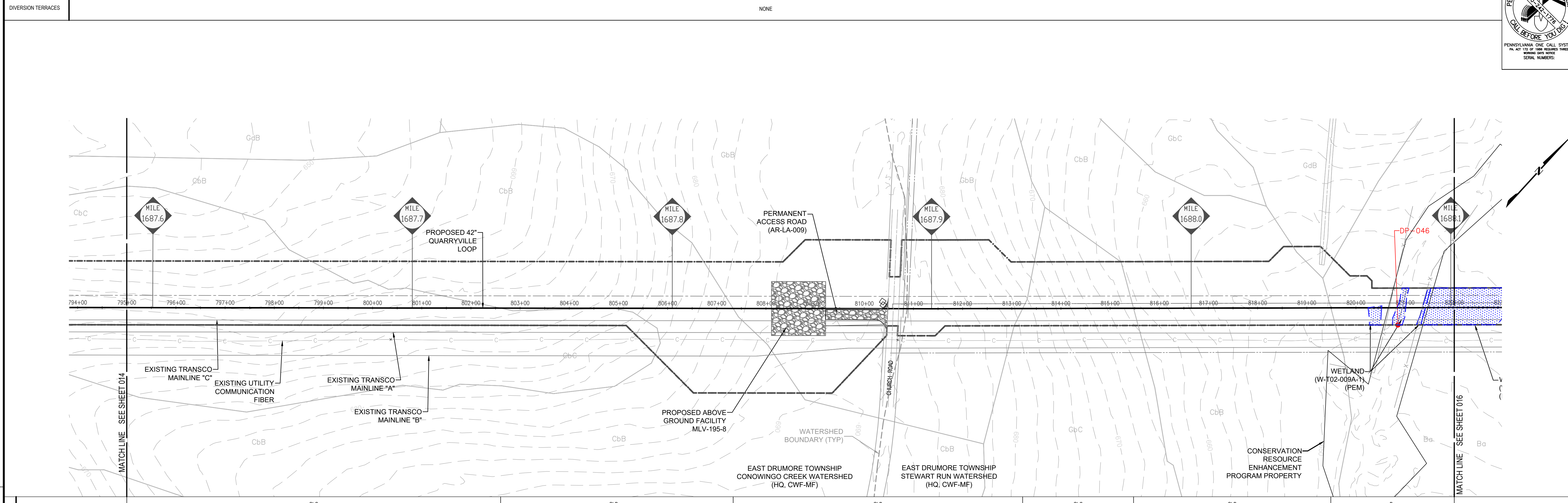
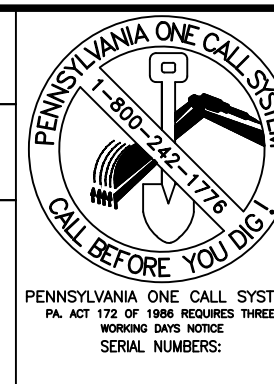
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0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 14
WO: 1185726			OF 26

Drawn By: & Date/Time: Wisayantona, Aug 21, 2025 8:16pm
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 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)





GENERAL NOTES

1. THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
2. ALL MILE POSTS AND STATIONING ARE BASED ON MAINLINE "D" STATIONING.
3. BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83.
4. WITH THE EXCEPTION OF TREE CLEARING AS INDICATED, PROPOSED LAND USE AND COVER IS TO MATCH EXISTING.
5. SEE SHEET 23 FOR VEGETATION RESTORATION SPECIFICATIONS.

SOIL LEGEND

Ba	BAILE SILT LOAM
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
CbC	CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
---	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
---	UNREGULATED DITCH CENTERLINE	---	TREE LINE
---	WATERSHED DIVIDE BOUNDARY	---	TREE
---	WETLAND	---	EXISTING VALVE SITE STONE
---	WATER WELL	---	PROPOSED VALVE SITE STONE
---	PARCEL LINE	---	WETLAND PLANTING AREA
---	EXISTING ACCESS ROADS	---	
---	FENCE LINE	---	
---	EXISTING OVERHEAD POWER LINE	---	
---	EXISTING PIPELINE	---	
---	PROPOSED PIPELINE	---	
---	EXISTING RIGHT OF WAY	---	
---	NEW RIGHT OF WAY	---	
---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER IMPACT AREA	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	

PETER P. HAAS, P.E.

 08/22/2025
 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE076971

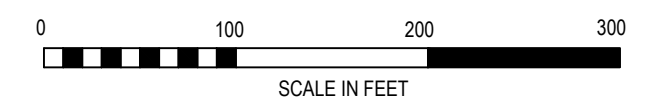
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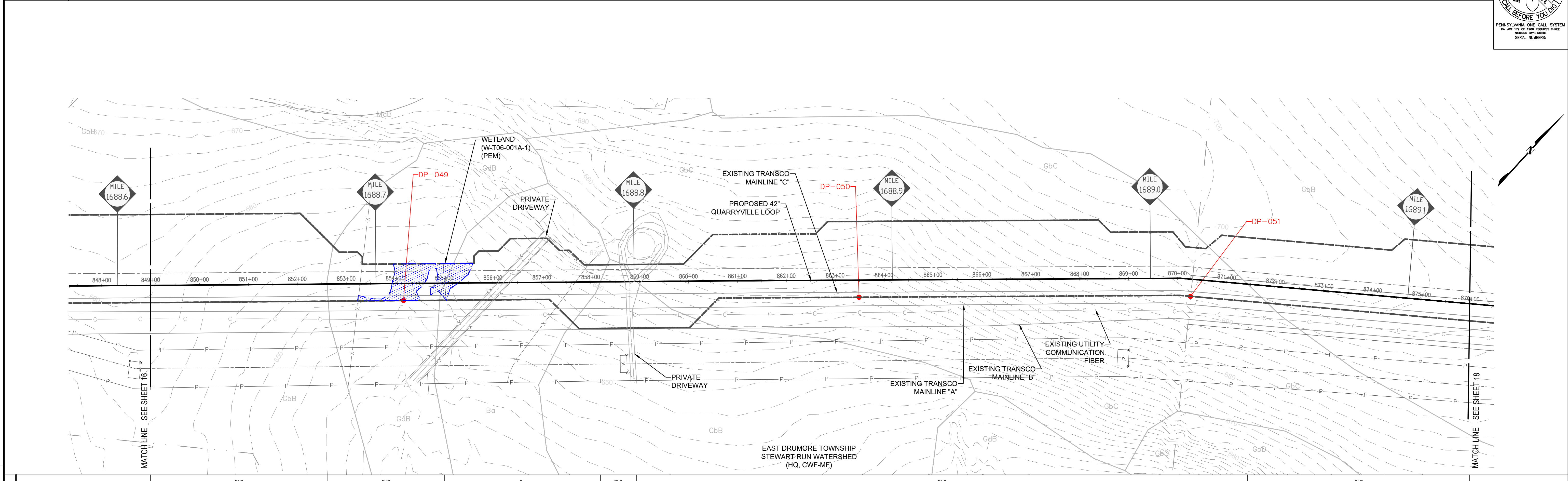
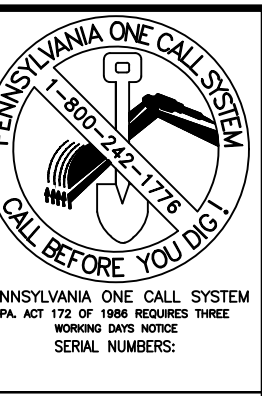
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

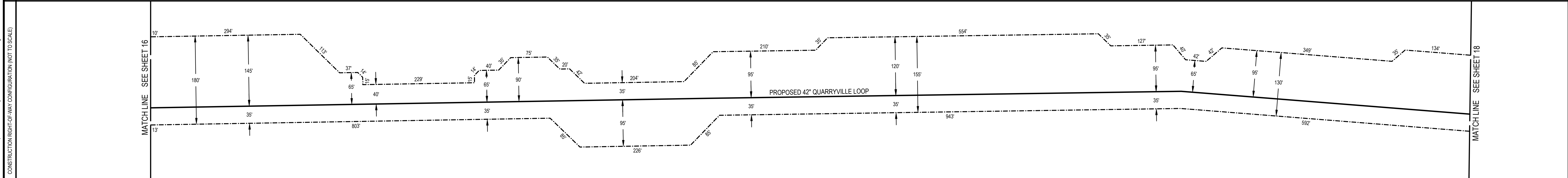
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APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 15
WO: 1185726			OF 26

Drawn By: & Date/Time: WisayantonaA Aug 21, 2025 8:16pm
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 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)





STATIONS
853+28 EXISTING FENCE
853+94 ENTER WETLAND (W-T06-001A-1)
854+00 TOP OF BANK
854+41 TOP OF BANK
854+80 ENTER WETLAND (W-T06-001A-1)
854+83 ENTER WETLAND (W-T06-001A-1)
854+88 TOP OF BANK
855+15 TOP OF BANK
855+25 ENTER WETLAND (W-T06-001A-1)
855+46 EXISTING FENCE
855+11 EDGE OF ROAD
855+75 & PRIVATE ROAD
855+94 EXISTING FENCE
857+46 EXISTING FENCE
859+76 EDGE OF ROAD
859+75 & PRIVATE ROAD
859+94 EDGE OF ROAD
870+05 P.L. 05204Z DT



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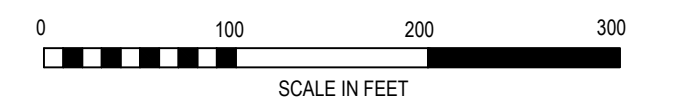
SOIL LEGEND

Ba	BAILE SILT LOAM
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
GbB	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GcC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
GdB	GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
---	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
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---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER IMPACT AREA	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	

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 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)



PETER P. HAAS, P.E.

 DATE: 08/22/2025
 PENNSYLVANIA PROFESSIONAL ENGINEER NO. PE076971

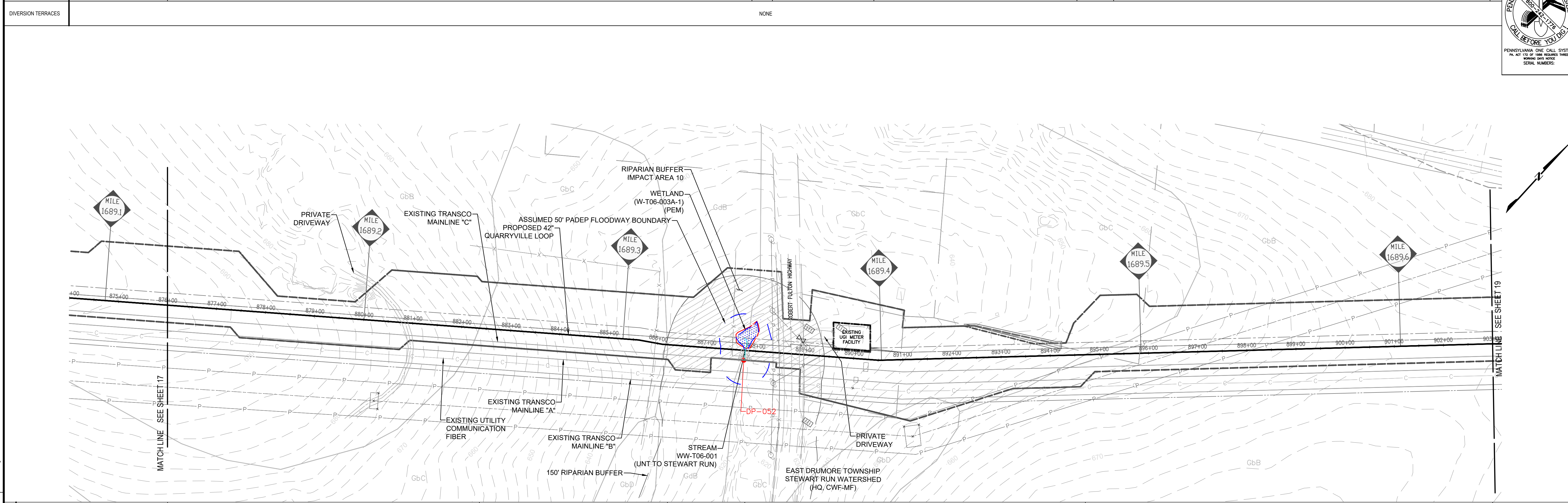
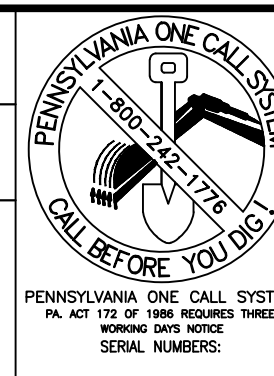
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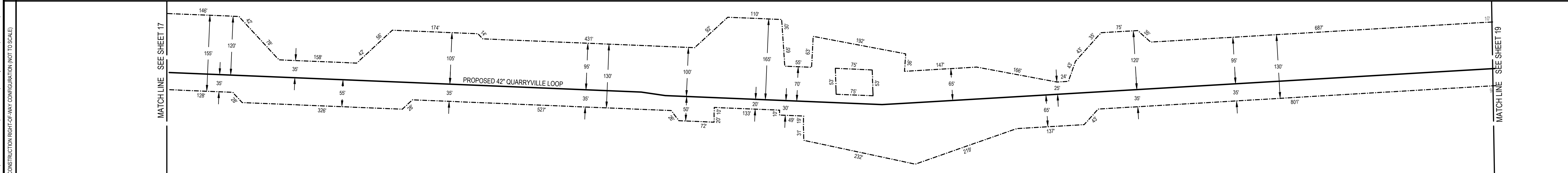
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
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APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 17
WO: 1185726			OF 26

OWNERSHIP	676+00	AARON L. & BETSIE E. LAPP PA-LA-84	688+49	ROBERT FULTON HWY / SR 222 PALA-013.000 RD	688+90	UGI UTILITIES INC PA-LA-86	690+95	QUARRYVILLE PRESBYTERIAN RETIREMENT COMMUNITY PALA-88	695+08	TIMOTHY J. & DEBRA ANN SHROM PA-LA-87	695+82	QUARRYVILLE PRESBYTERIAN RETIREMENT COMMUNITY PA-LA-88	903+00
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STATIONS	676+00	688+49	688+90	690+95	695+08	695+82	903+00
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GENERAL NOTES

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SOIL LEGEND

GbB	GLENGLE SILT LOAM, 3 TO 8 PERCENT SLOPES
GbC	GLENGLE SILT LOAM, 8 TO 15 PERCENT SLOPES
GbB	GLENGLE SILT LOAM, 3 TO 8 PERCENT SLOPES

SITE RESTORATION LEGEND

--- (dashed)	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
--- (dotted)	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
---	UNREGULATED DITCH CENTERLINE	---	TREE LINE
---	WATERSHED DIVIDE BOUNDARY	---	TREE
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---	PROPOSED PIPELINE	---	
---	EXISTING RIGHT OF WAY	---	
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---	FEMA FLOOD HAZARD ZONES	---	
---	SOIL TYPE BOUNDARY	---	
---	SOIL TYPE	---	
---	150' RIPARIAN BUFFER	---	
---	CHANNEL LINER	---	
---	50' PADEP FLOODWAY	---	

PETER P. HAAS, P.E.

08/22/2025
DATE

PENNSYLVANIA
PROFESSIONAL ENGINEER NO. PE076971

REVISIONS

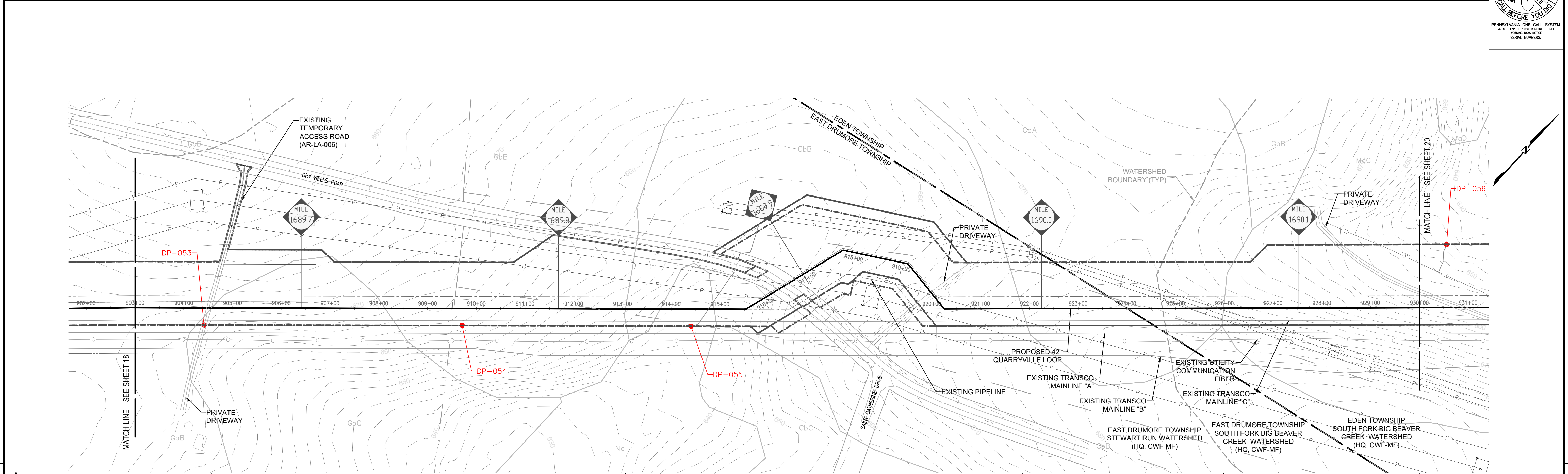
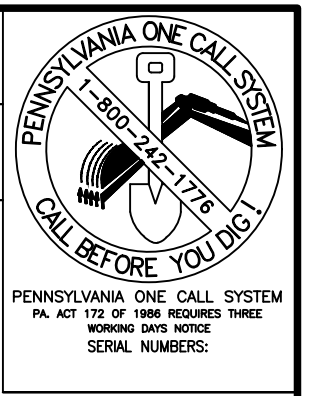
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SITE RESTORATION PLAN
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PROPOSED 42" QUARRYVILLE LOOP
M.P. 1681.02 TO M.P. 1691.16
LANCASTER COUNTY, PENNSYLVANIA

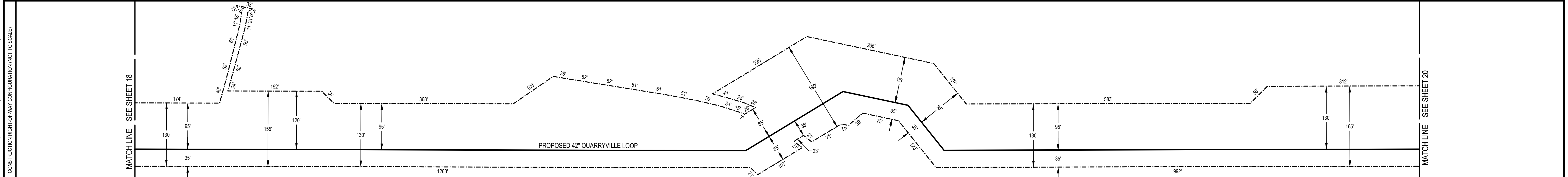
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APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 18
NO: 1185726			OF 26

Drawn By: & Date/Time: WisyantonaA Aug 22, 2025 12:17pm
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OWNERSHIP	903+00	QUARRYVILLE PRESBYTERIAN RETIREMENT COMMUNITY PA-LA-88	909+51	DAVID F. & ELSIE K. STOLTZFUS PA-LA-93	912+88	PECO ENERGY COMPANY PA-LA-90	916+31	DRY WELLS ROAD PA-LA-014.000 RD	916+36	PECO ENERGY COMPANY PA-LA-90	922+95	PECO ENERGY COMPANY PA-LA-96	925+34	PPL ELECTRIC UTILITIES CORPORATION PA-LA-96.001	930+00
DIVERSION TERRACES	NONE														



STATIONS	902+00	903+00	904+00	905+00	906+00	907+00	908+00	909+00	910+00	911+00	912+00	913+00	914+00	915+00	916+00	917+00	918+00	919+00	920+00	921+00	922+00	923+00	924+00	925+00	926+00	927+00	928+00	929+00	930+00	931+00
	CbB	CbC	CbB	CbB	Nd	CbB	CbA	Mac																						



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SOIL LEGEND

CbA	CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES
CbB	CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
CbC	GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
GcC	GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
McC	MANOR SILT LOAM, 8 TO 15 PERCENT SLOPES
Nd	NEWARK SILT LOAM, SCHIST SUBSTRATUM

SITE RESTORATION LEGEND

---	EXISTING MAJOR CONTOUR (10')	---	LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
---	EXISTING MINOR CONTOUR (2')	---	DIVERSION TERRACE
---	STREAM CENTERLINE	---	TREE CLEARING AREA
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---	150' RIPARIAN BUFFER IMPACT AREA	---	
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PETER P. HAAS, P.E.

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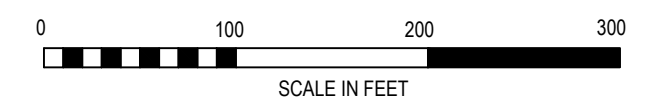
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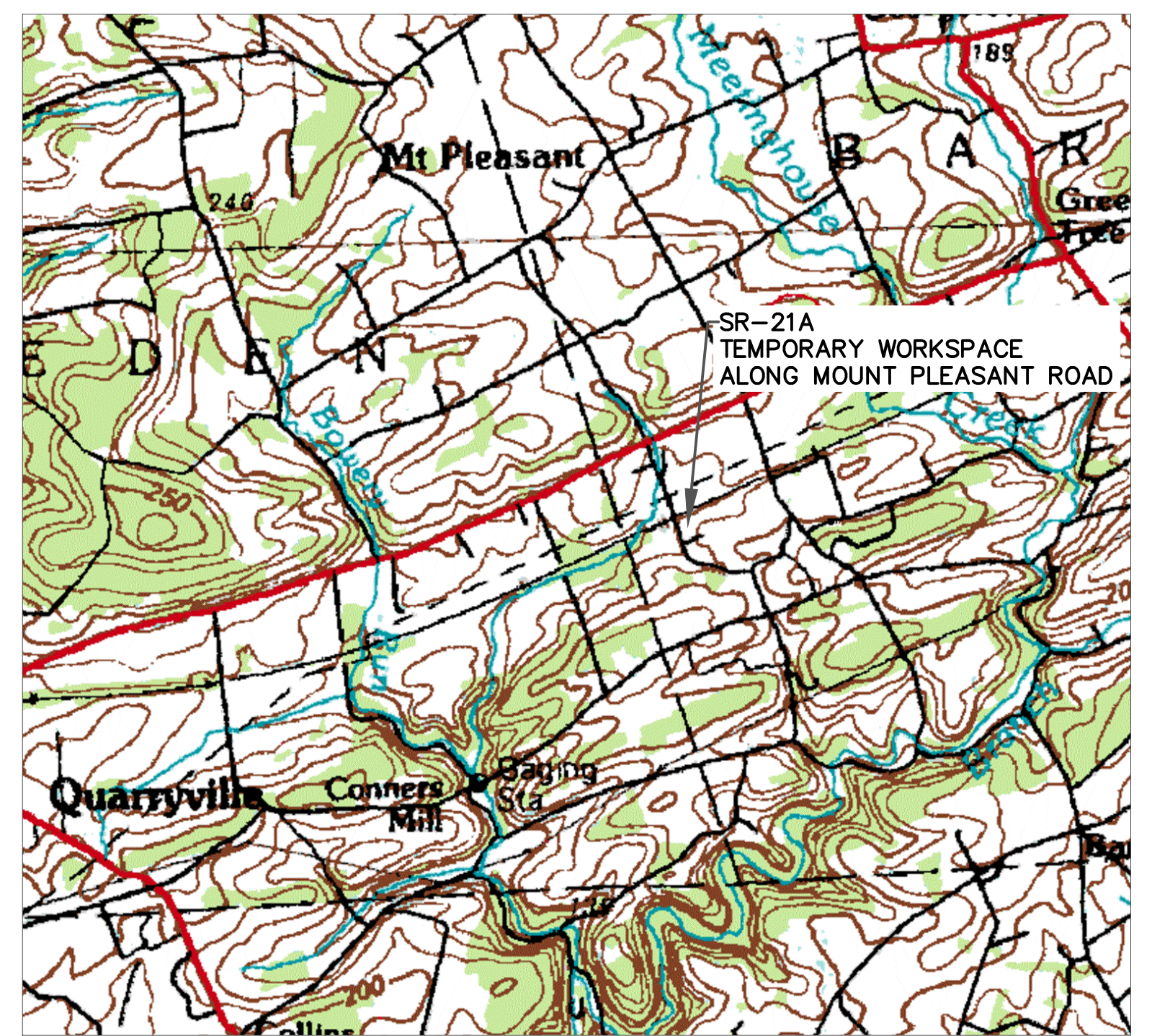
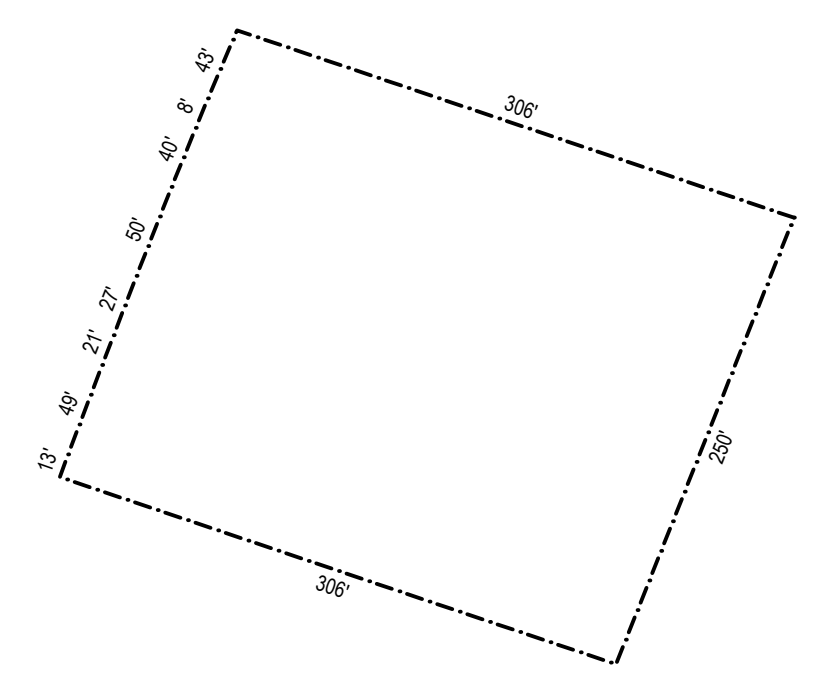
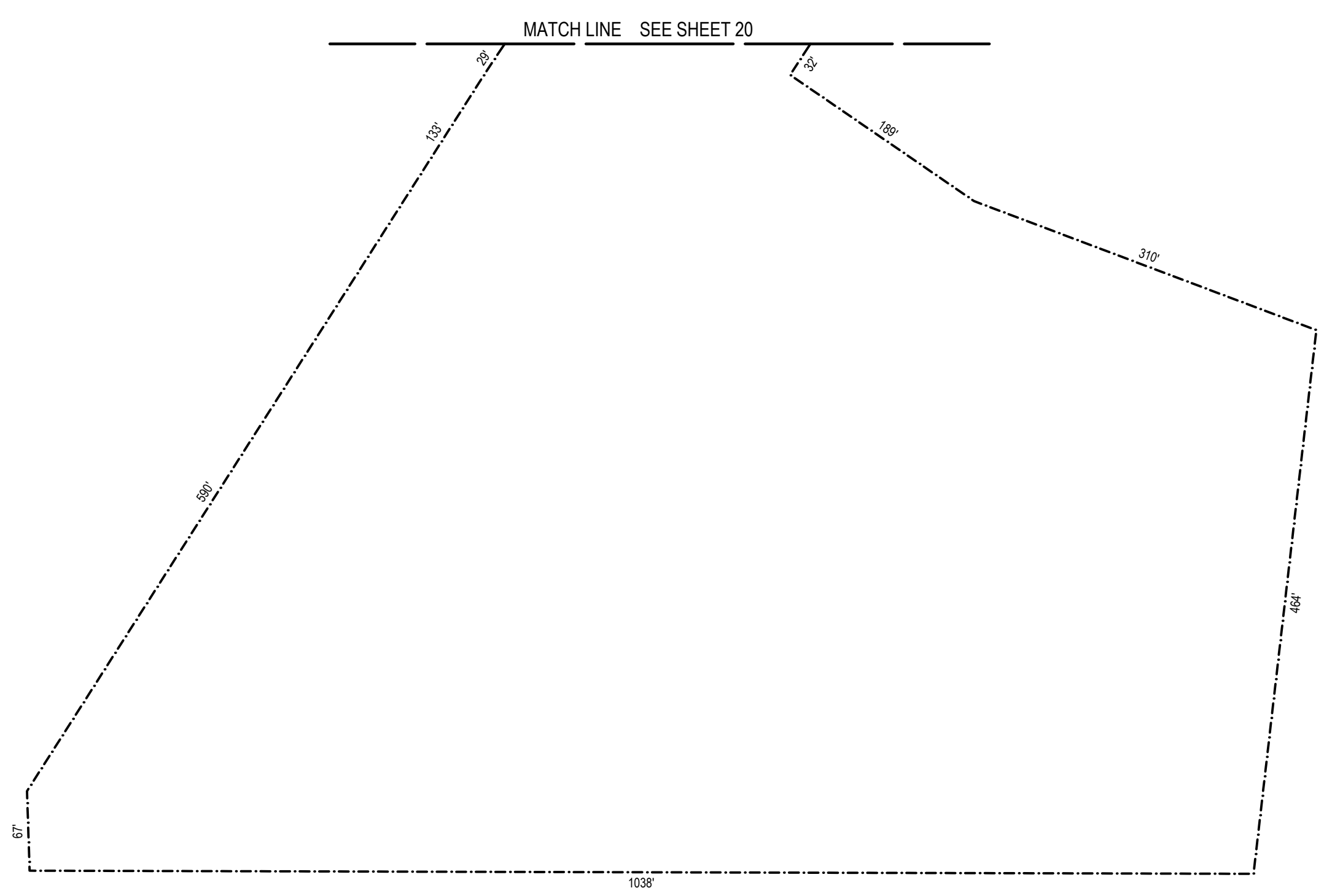
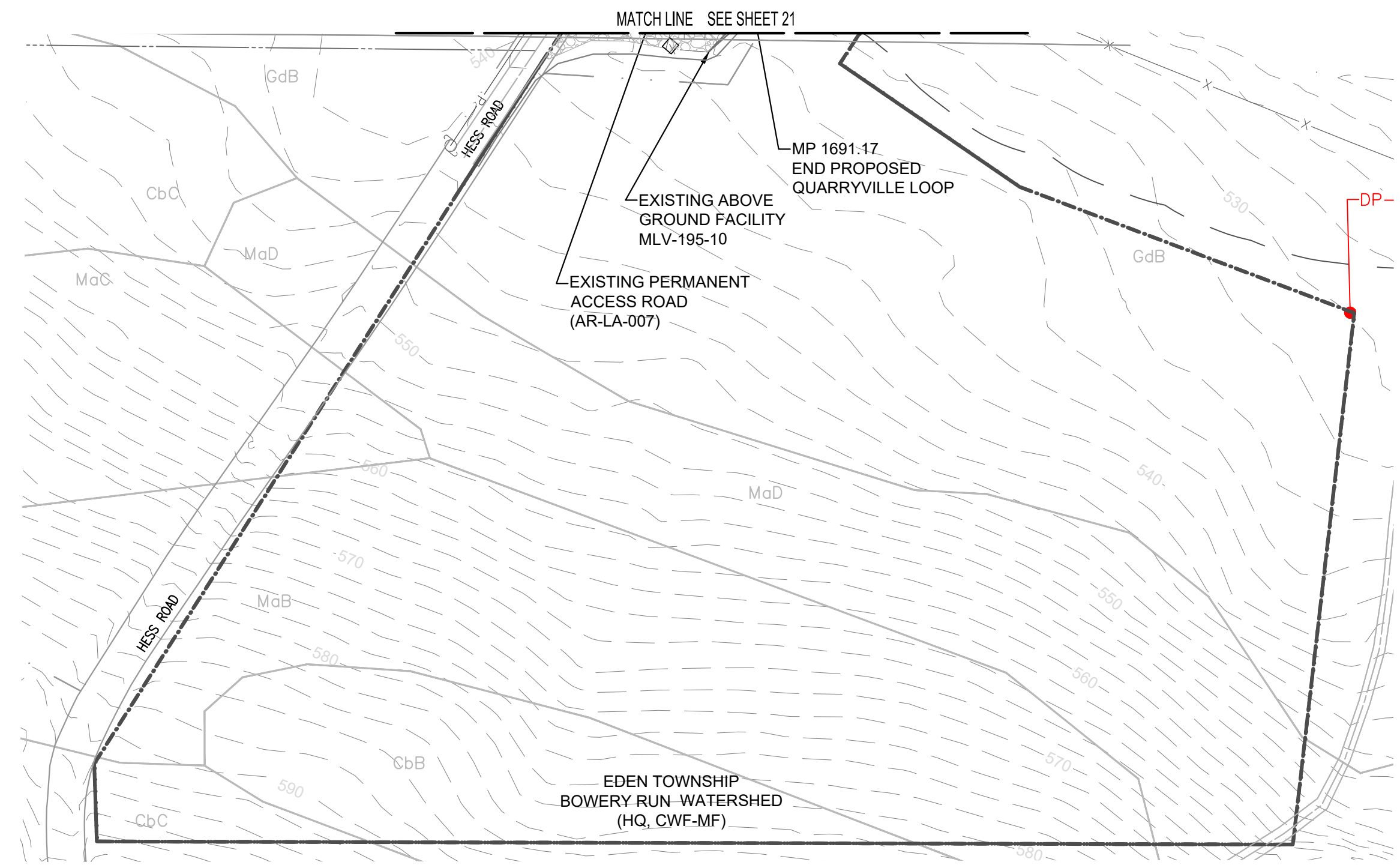
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1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 19
NO: 1185726			OF 26

Drawn By: & Date/Time: WisayantonaA Aug 21, 2025 1:06pm
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GENERAL NOTES

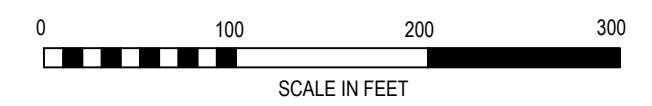
- THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- ALL MILE POSTS AND STATIONING ARE BASED ON MAIN LINE "D" STATIONING.
- BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83.
- WITH THE EXCEPTION OF TREE CLEARING AS INDICATED, PROPOSED LAND USE AND COVER IS TO MATCH EXISTING.
- SEE SHEET 23 FOR VEGETATION RESTORATION SPECIFICATIONS.

SOIL LEGEND

- CbA CHESTER SILT LOAM, 0 TO 3 PERCENT SLOPES
- CbB CHESTER SILT LOAM, 3 TO 8 PERCENT SLOPES
- CbC CHESTER SILT LOAM, 8 TO 15 PERCENT SLOPES
- GcB GLENELG SILT LOAM, 3 TO 8 PERCENT SLOPES
- GcC GLENELG SILT LOAM, 8 TO 15 PERCENT SLOPES
- GcD GLENELG SILT LOAM, 15 TO 25 PERCENT SLOPES
- GdB GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES
- MbD MANOR VERY STONY SILT LOAM, 8 TO 25 PERCENT SLOPES

SITE RESTORATION LEGEND

- EXISTING MAJOR CONTOUR (10')
- EXISTING MINOR CONTOUR (2')
- STREAM CENTERLINE
- UNREGULATED DITCH CENTERLINE
- WATERSHED DIVIDE BOUNDARY
- WETLAND
- WATER WELL
- PARCEL LINE
- EXISTING ACCESS ROADS
- FENCE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING PIPELINE
- PROPOSED PIPELINE
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- FEMA FLOOD HAZARD ZONES
- SOIL TYPE BOUNDARY
- SOIL TYPE
- 150' RIPARIAN BUFFER IMPACT AREA
- 150' RIPARIAN BUFFER
- CHANNEL LINER
- 50' PADEP FLOODWAY
- LIMIT OF DISTURBANCE/PROJECT SITE BOUNDARY
- DIVERSION TERRACE
- TREE CLEARING AREA
- TREE LINE
- TREE
- EXISTING VALVE SITE STONE
- PROPOSED VALVE SITE STONE
- WETLAND PLANTING AREA



PETER P. HAAS, P.E.

08/22/2025
DATE

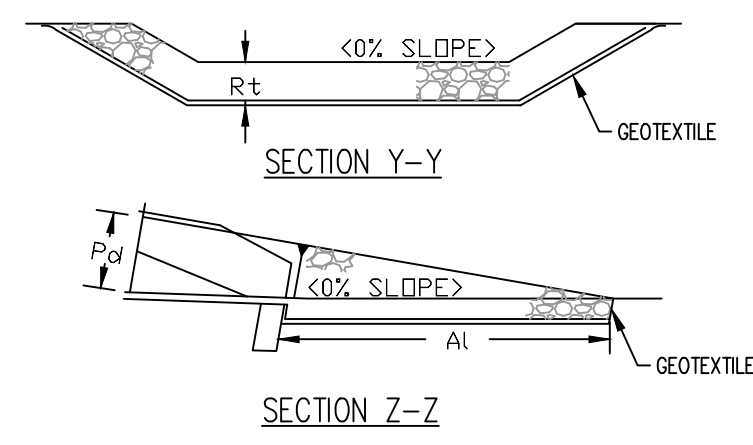
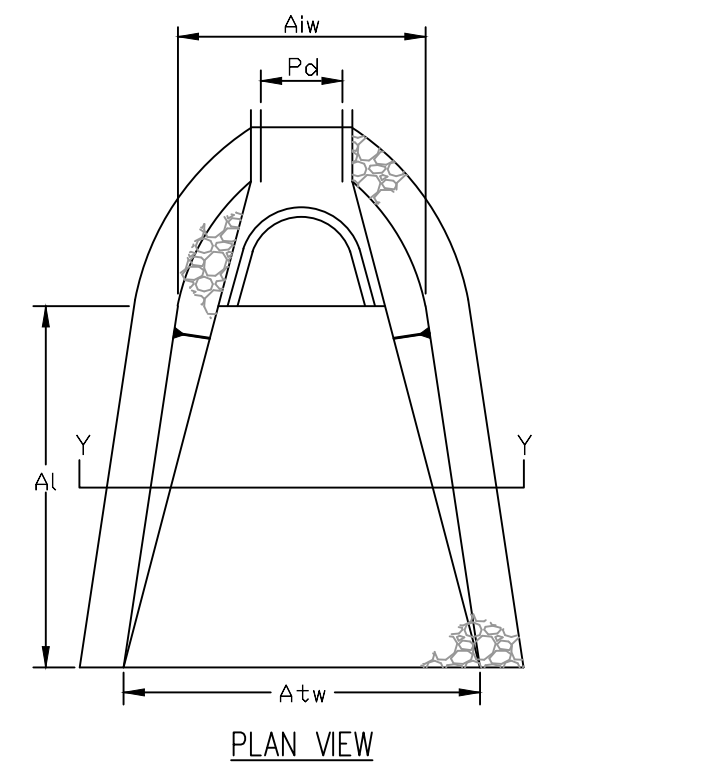
PENNSYLVANIA
PROFESSIONAL ENGINEER NO. PE078971

REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
SITE RESTORATION PLAN
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED 42" QUARRYVILLE LOOP
M.P. 1681.02 TO M.P. 1691.16
LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: 1"=100'
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 21A OF 26
NO. 1185726			

Drawn By: & Date/Time: Wisayantona, Aug 21, 2025 1:09pm
 Drawing Location & Name: C:\Users\WISA\OneDrive\AppData\Local\Temp\AcPublish_371140\02 - Quarryville_SR_2-21A.dwg



RIPRAP SIZE (R-)	THICK. (IN)	LENGTH (FT)	APRON INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
R-4	18	12	4.5	17

NATIONAL STONE ASSOCIATION NUMBER	SIZE OF ROCKS (INCHES)			MIN. THICKNESS OF RIPRAP LAYER (IN.)	TOE (FEET)
	MAXIMUM	d50 AVERAGE	MINIMUM		
R-1	12	?	NO. 8	2	1
R-2	3	12	1	4	1.25
R-3	6	3	2	9	1.5
R-4	12	6	3	18	2.5
R-5	18	9	4	27	4
R-6	24	12	6	36	4
R-7	30	18	12	45	5
R-8	42	24	15	63	6

* THE "AVERAGE SIZE", OR d50, IS DEFINED AS A SIZE THAT IS EXCEEDED BY AT LEAST 50% OF THE TOTAL WEIGHT SHIPPED. (IE. 50% OF THE TONNAGE SHIPPED CONSISTS OF PIECES LARGER THAN THE "AVERAGE SIZE" SHOWN IN CHART.)

** PIECES SMALLER THAN THE "MINIMUM SIZE" SHOWN SHALL NOT EXCEED 15% OF THE TONNAGE SHIPPED.

- MATERIAL NOTES:**
- ROCK UTILIZED FOR RIPRAP SHALL CONSIST OF SOUND, DURABLE ROCK, INSOLUBLE IN WATER, AND RESISTANT TO WEATHERING.
 - ALL MATERIAL SHALL BE FREE OF STRUCTURAL DEFECTS, SHALE SEAMS AND ORGANIC MATTER.
 - INDIVIDUAL PIECES SHOULD BE SHARPLY ANGULAR, BLOCK SHAPED AND HAVE A MINIMUM SPECIFIC GRAVITY OF 2.5.
 - NO PIECE SHALL HAVE A LENGTH EXCEEDING THREE (3) TIMES ITS WIDTH OR DEPTH.
 - EACH LOAD OF ROCK SHALL BE OF WELL-GRADED MIXTURE. A WELL-GRADED MIXTURE, AS USED HEREIN, IS DEFINED AS A MIXTURE COMPOSED PRIMARILY OF LARGER STONE, BUT WITH A SUFFICIENT MIXTURE OF SMALLER SIZES TO FILL THE VOIDS.
 - MATERIAL SHALL MEET NSA SPECIFICATIONS - SEE TABLE.
 - IF STREAM WIDTH IS EQUAL TO OR LESS THAN 2 TIMES THE TOE WIDTH, RIPRAP SHALL BE PLACED ACROSS THE ENTIRE STREAM WIDTH.

CONSTRUCTION:
RIPRAP SHALL BE PLACED TO THE FULL COURSE THICKNESS IN ONE CONTINUOUS OPERATION. OPERATIONS WHICH CAUSE SEGREGATION OF THE MATERIALS SHALL NOT BE PERMITTED. INDIVIDUAL ROCKS MAY BE REARRANGED, AND THE VOIDS FILLED WITH HAND PLACED SMALLER ROCK IN ORDER TO ACHIEVE THE DESIRED UNIFORM ARMOR.

RIPRAP APRON
TEMPORARY EROSION CONTROL MEASURE (RPA)

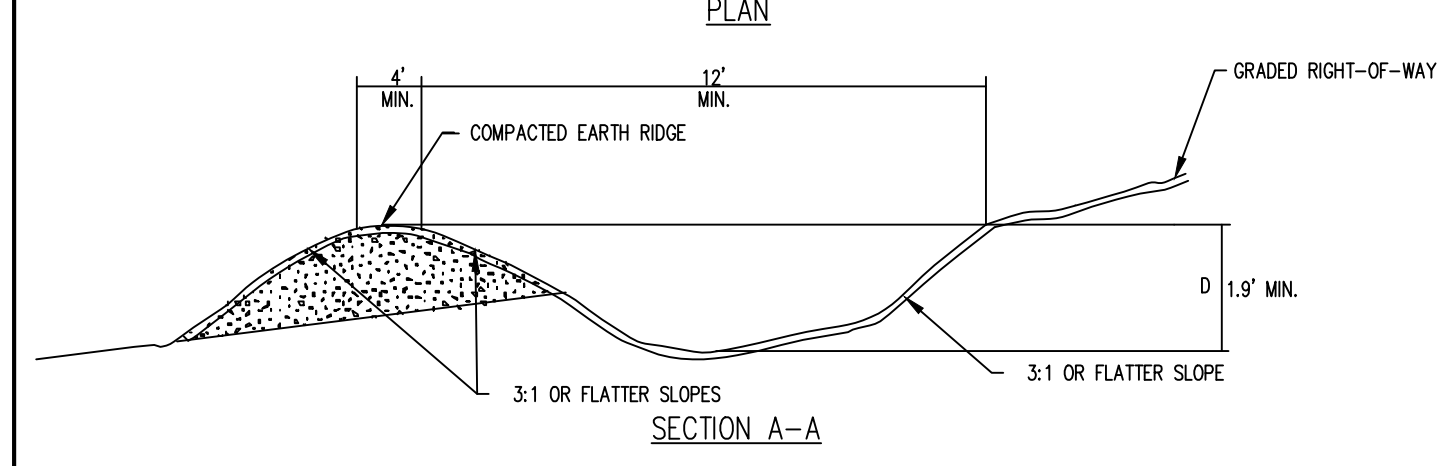
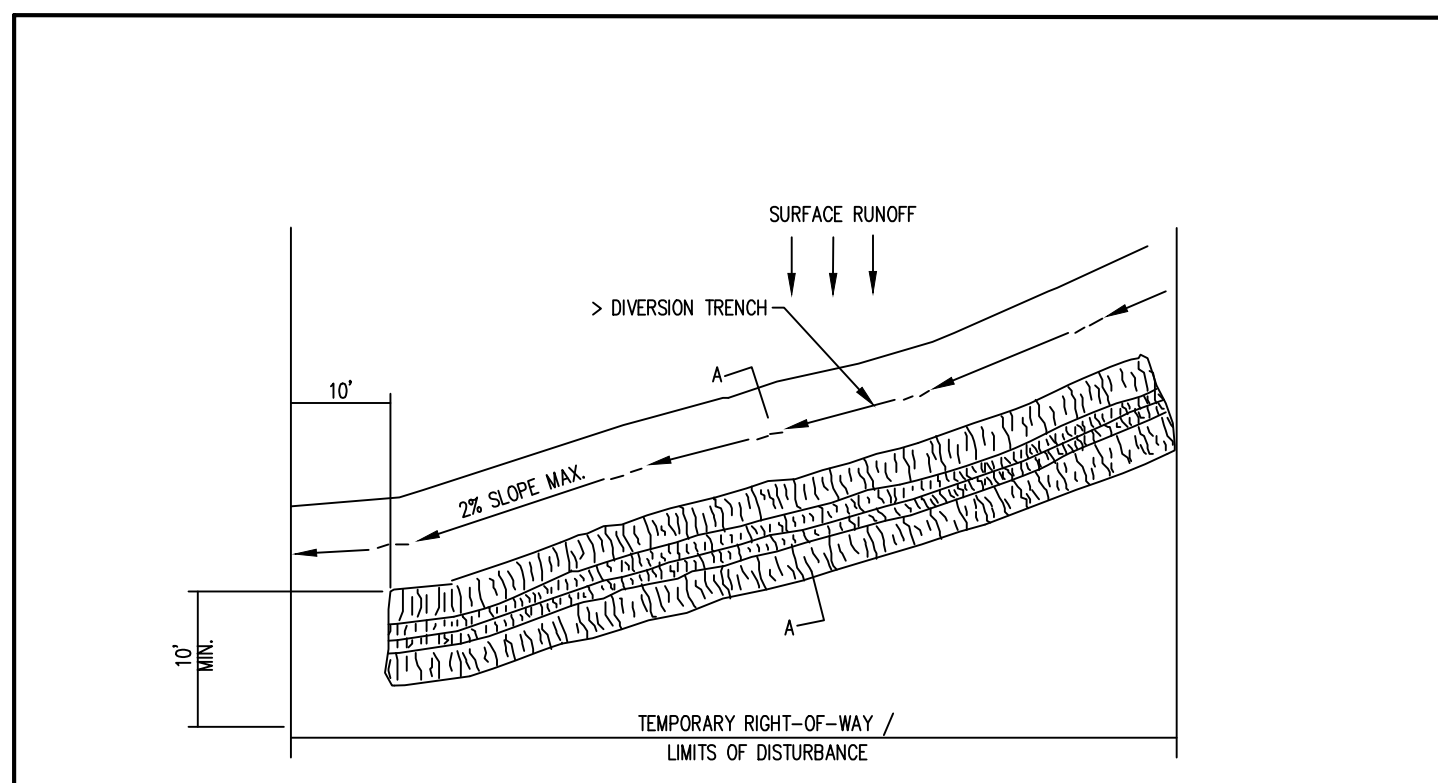
NO.	DATE	BY	REVISION DESCRIPTION	NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE CORPORATION
STANDARD ENVIRONMENTAL DETAIL

(RPA) RIPRAP APRON

GENERAL NOTES

- PADDING BUCKET REQUIRED DURING BACKFILL OPERATIONS.
- BACKFILLING SHALL BE DONE WITH A BACKFILL MACHINE OR OTHER APPROPRIATE METHOD AND SHALL BE DONE IN A MANNER THAT ENSURES FILLING THE SPACE BELOW AND ON THE SIDES OF THE PIPE WITH LOOSE EARTH.
- FILL FROM THE BOTTOM OF DITCH TO 12" ABOVE TOP OF PIPE SHALL BE FREE OF HARD OBJECTS, ANY STONES, ROCKS, GRAVEL OR OTHER HARD MATERIAL THAT MAY DAMAGE THE COATING SHALL BE REMOVED PRIOR TO BACKFILLING.
- BACKFILL BETWEEN 12" ABOVE THE PIPE AND THE GROUND LEVEL MAY CONTAIN UP TO 25% ROCKS OR GRAVEL UP TO 2" IN SIZE WITH THE REMAINDER BEING WELL GRADED FILL, LESS THAN 1/2" IN SIZE.
- WHERE WORKERS WILL BE IN DITCH, DITCHING TO CONFORM TO OSHA PART 1926 SUBPART P-EXCAVATIONS STANDARDS FOR SAFETY.
- ROCK SHIELD TO BE INSTALLED IN AREAS WHERE INSUFFICIENT PAD DIRT AVAILABLE.



PERCENT OF LAND SLOPE	SPACING (IN FEET)
0 - 5%	NOT NEEDED
5 - 15%	150
15 - 30%	100
>30%	50

- NOTES:**
- DURING CONSTRUCTION, DIVERSION TERRACES SHALL BE PREPARED AT THE END OF EACH WORK DAY AND PRIOR TO STORM EVENTS.
 - AFTER EARTH DISTURBING WORK HAS BEGUN, DIVERSION TERRACES SHALL BE INSTALLED AT THE SPACINGS SHOWN IN THE ABOVE TABLE OR AS SHOWN ON THE DRAWINGS. DIVERSION TERRACES SHALL BE IMMEDIATELY STABILIZED WITH EROSION CONTROL BLANKET.
 - TEMPORARY AND PERMANENT DIVERSION TERRACES ARE REQUIRED AT ALL WATERBODY CROSSINGS AND UPSLOPE FROM ALL WETLAND BOUNDARIES.
 - THE DIVERSION TERRACE OUTLET SHALL BE LOCATED WHERE RUNOFF WILL BE RELEASED ONTO AN EXISTING WELL-VEGETATED AREA. AN OUTLET STRUCTURE (OSS) MUST BE INSTALLED AT THE DIVERSION TERRACE OUTLET.

TEMPORARY STABILIZATION:
DIVERSION TERRACES WILL BE COMPACTED TO REDUCE THE RISK OF EROSION. IF EROSION IS OBSERVED ALONG THE TERRACES DURING CONSTRUCTION, EROSION CONTROL BLANKET SHALL BE INSTALLED AS NEEDED TO MAINTAIN STABILITY.

PERMANENT STABILIZATION:
UPON COMPLETION OF EARTH DISTURBANCE ACTIVITIES, SOIL FROM DIVERSION TERRACES WILL BE UNIFORMLY SPREAD, SEED, AND MULCHED IN ACCORDANCE WITH PERMANENT STABILIZATION REQUIREMENTS UNTIL FINAL STABILIZATION IS ACHIEVED.

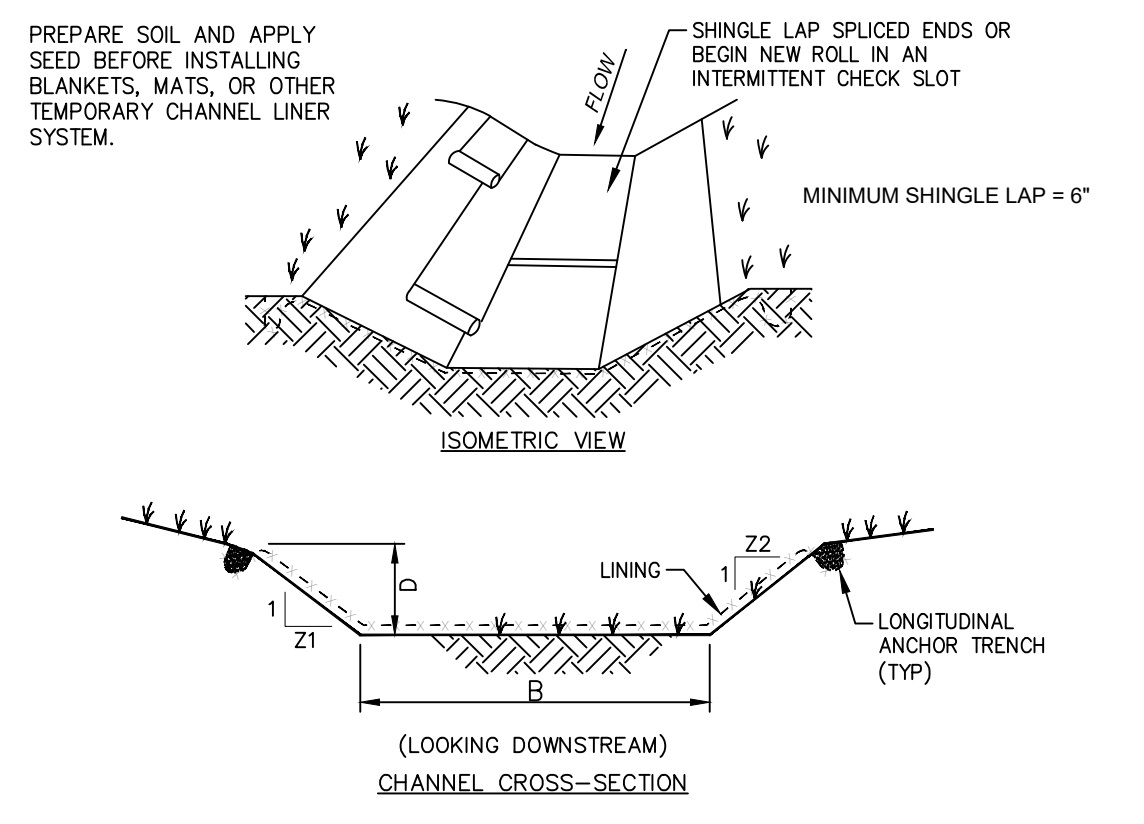
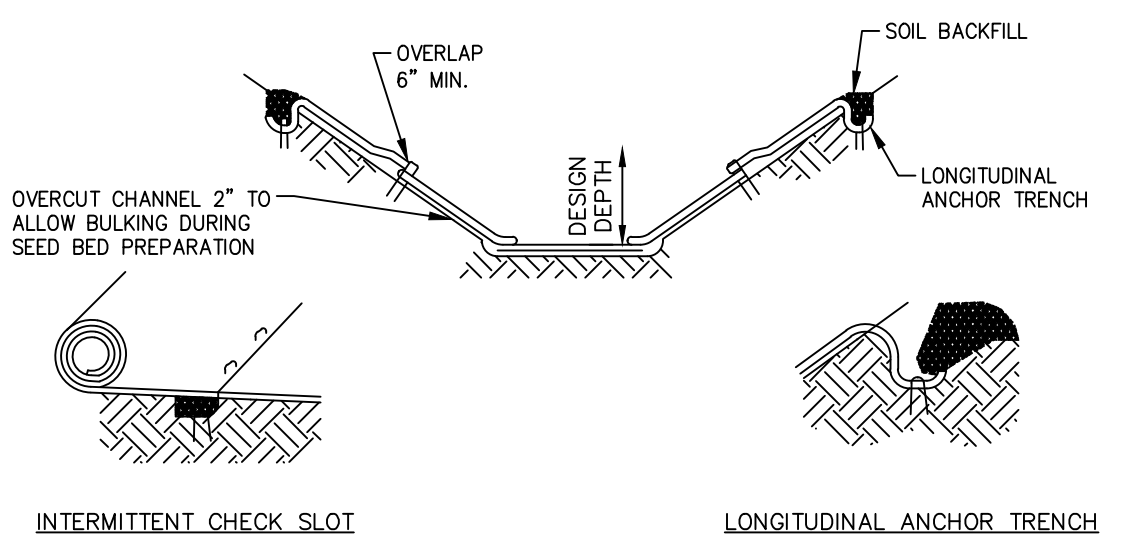
PERMANENT DIVERSION TERRACES MUST BE STABILIZED WITH AT LEAST 70% ESTABLISHED VEGETATION. THE SUMP SHALL BE FILLED AND STABILIZED WITH THE SPECIFIED GRASS SEED AND EROSION CONTROL MAT WHEN THE CFS IS REMOVED.

DIVERSION TERRACE
TEMPORARY AND PERMANENT EROSION CONTROL MEASURE (DT)

NO.	DATE	BY	REVISION DESCRIPTION	NO.	CHK.	APP.
1	08/20/22	TPF	REVISED NOTE			
1	01/13/22	TPF	REVISED NOTES			

TRANSCONTINENTAL GAS PIPE LINE CORPORATION
STANDARD ENVIRONMENTAL DETAIL

(DT) DIVERSION TERRACE



CHANNEL	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING
CH-01	4	2.0	16	3	3	VEGETATION

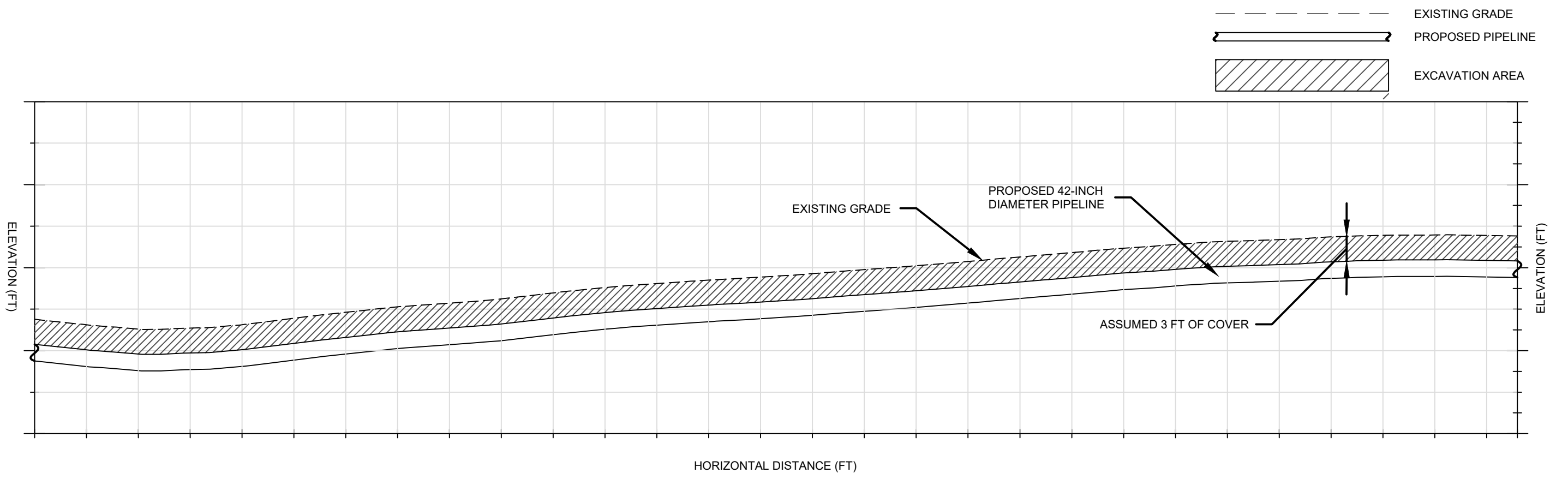
- NOTES:**
- SEE MANUFACTURER'S INSTALLATION DETAIL FOR STAPLE PATTERNS, AND VEGETATION STABILIZATION SPECIFICATIONS FOR SOIL AMENDMENTS, SEED MIXTURES, AND MULCHING INFORMATION.
 - ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.
 - CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.
 - NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.
 - SOIL AMENDMENTS TO BE INSTALLED IN EACH VEGETATED CHANNEL. REFER TO SOIL AMENDMENTS DETAIL FOR SPECIFICATIONS.

VEGETATED CHANNEL
PERMANENT STORMWATER MEASURE (VC)

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

TRANSCONTINENTAL GAS PIPE LINE CORPORATION
STANDARD ENVIRONMENTAL DETAIL

(VC) VEGETATED CHANNEL



TYPICAL PROFILE OF PIPELINE CONSTRUCTION

PETER P. HAAS, P.E.

08/22/2025
DATE

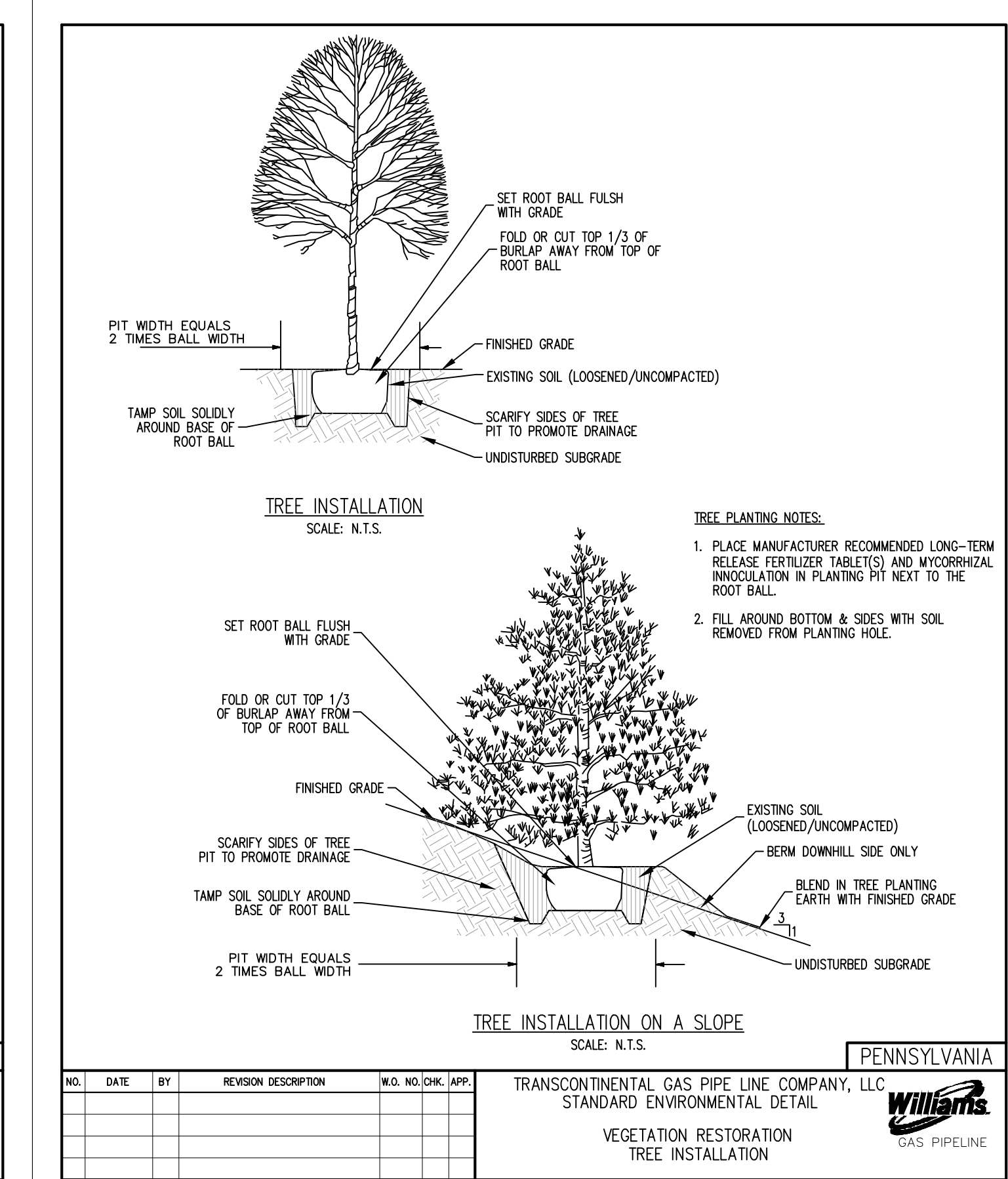
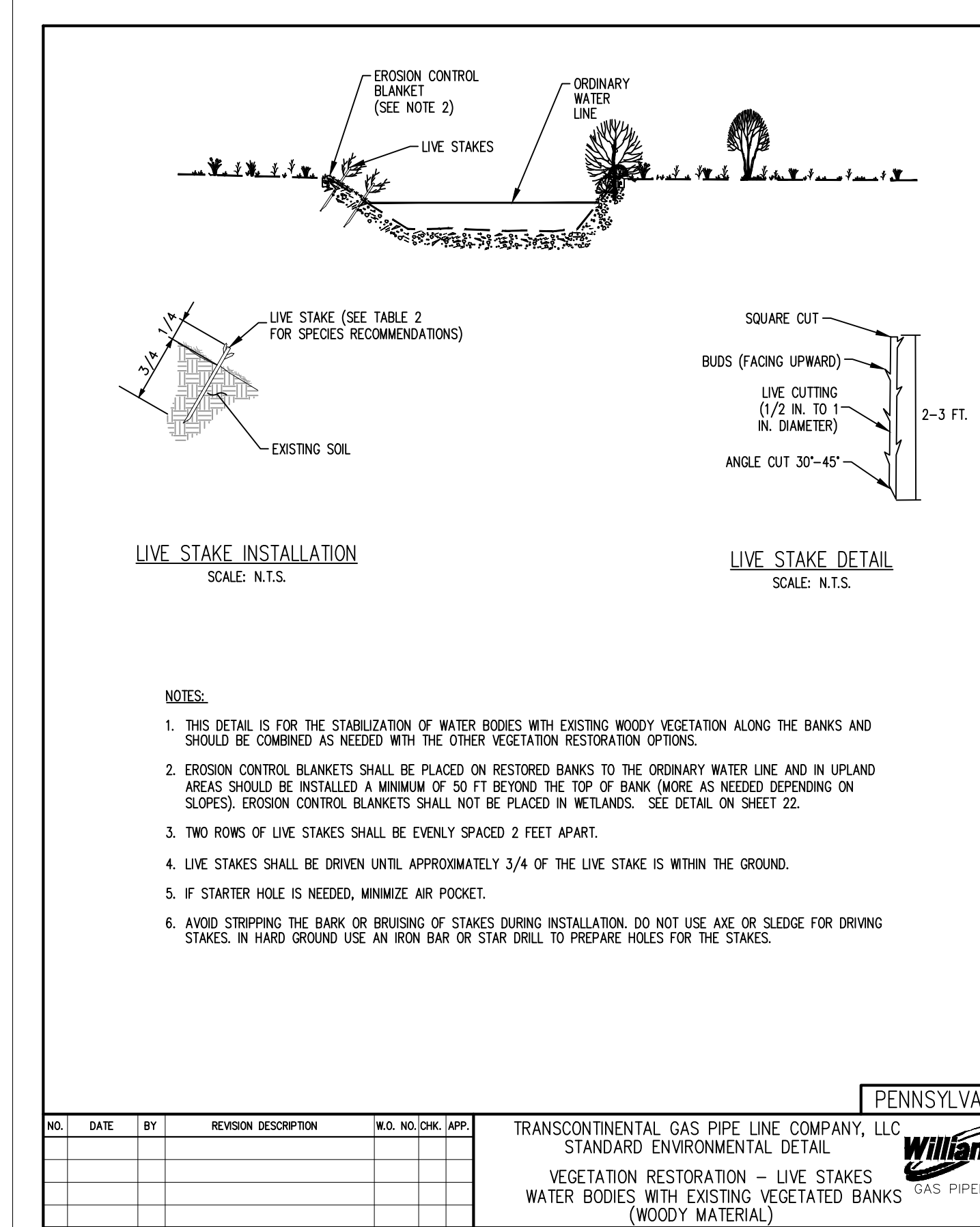
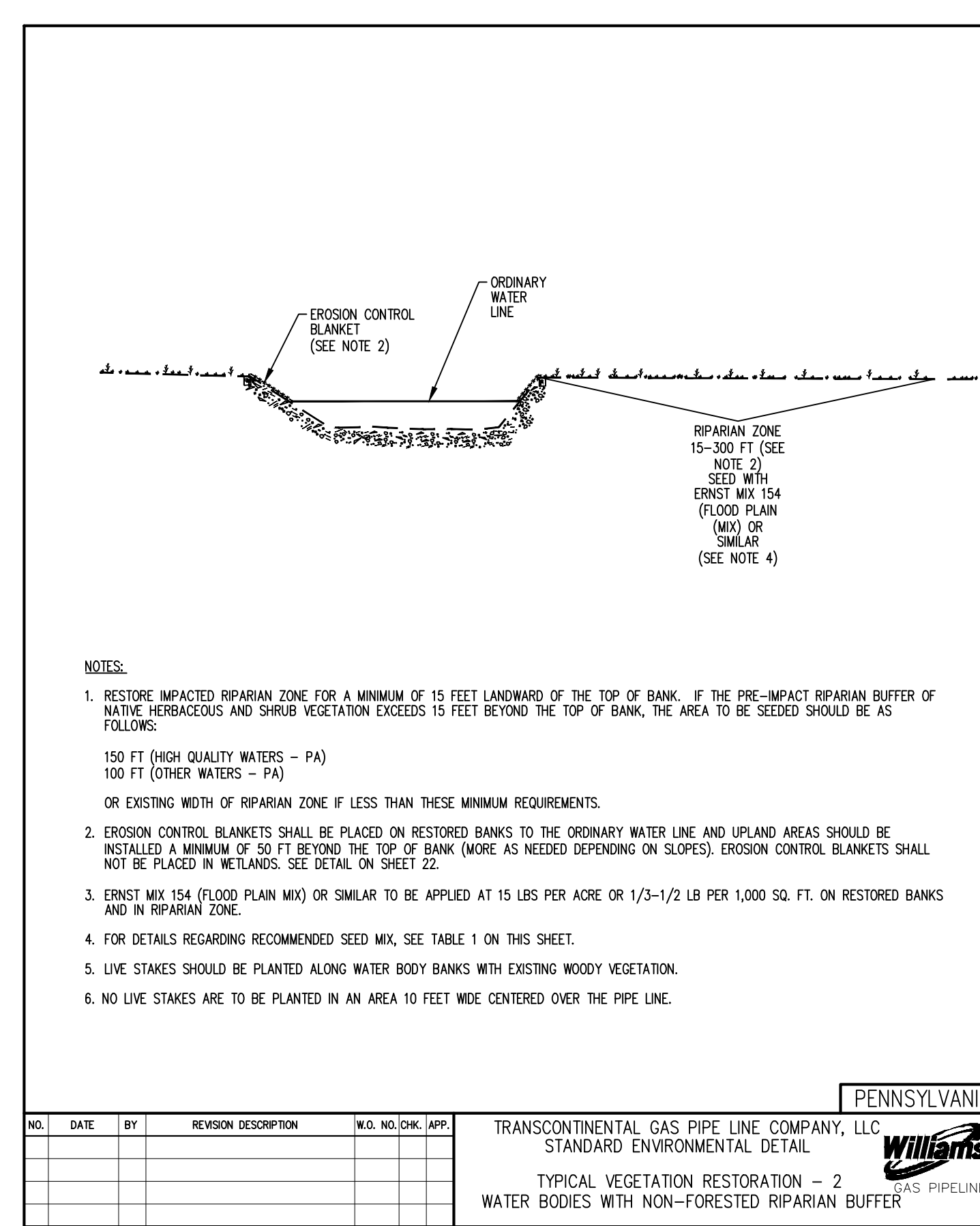
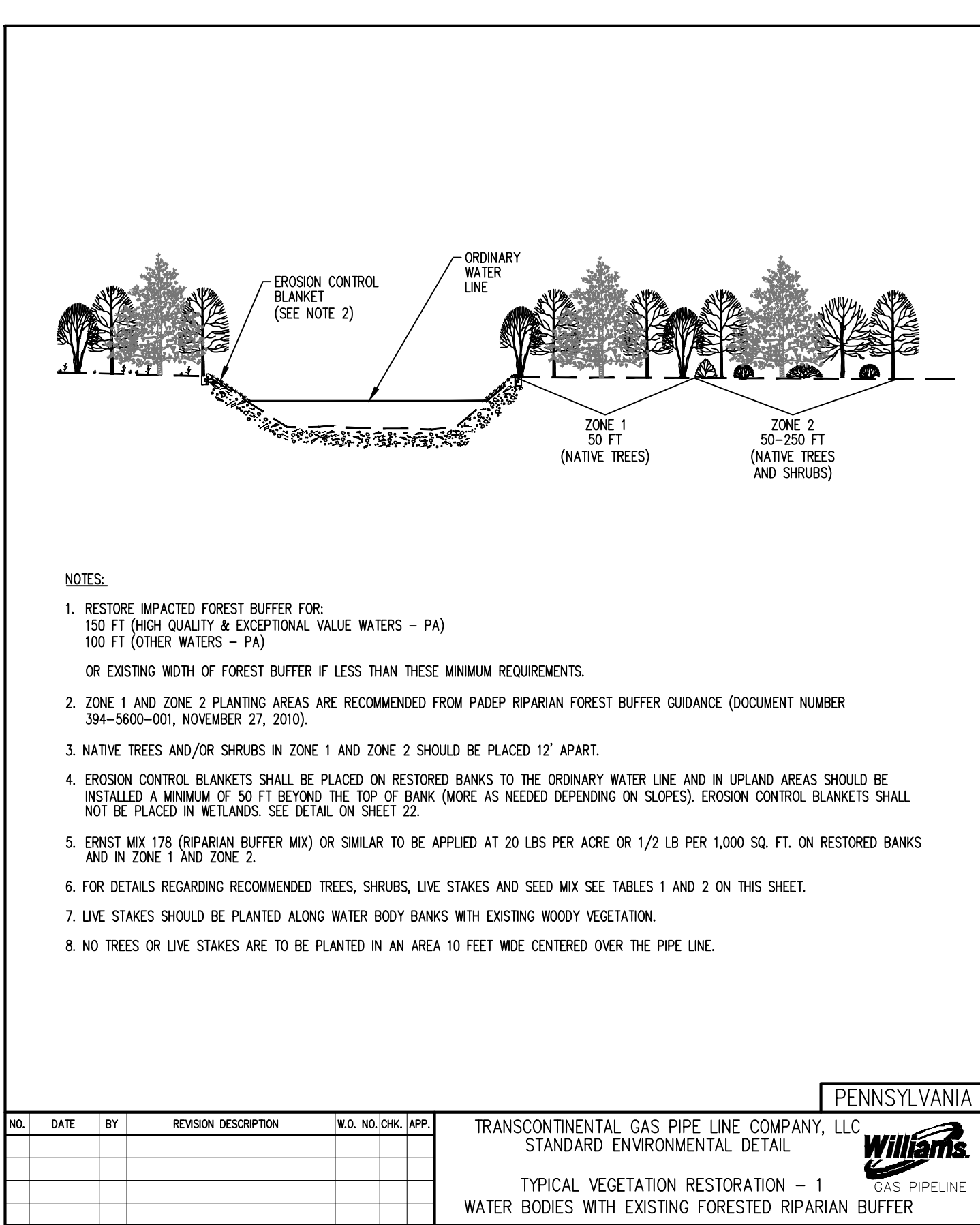
PENNSYLVANIA
PROFESSIONAL ENGINEER NO. PE078971

NO.	DATE	BY	DESCRIPTION	NO.	CHK.	APP.
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LANCASTER COUNTY, PENNSYLVANIA

DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: NTS
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 22 OF 26

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

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
STANDARD ENVIRONMENTAL DETAIL

TYPICAL VEGETATION RESTORATION - 1
WATER BODIES WITH EXISTING FORESTED RIPARIAN BUFFER

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

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
STANDARD ENVIRONMENTAL DETAIL

TYPICAL VEGETATION RESTORATION - 2
WATER BODIES WITH NON-FORESTED RIPARIAN BUFFER

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

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
STANDARD ENVIRONMENTAL DETAIL

VEGETATION RESTORATION - LIVE STAKES
WATER BODIES WITH EXISTING VEGETATED BANKS
(WOODY MATERIAL)

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

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
STANDARD ENVIRONMENTAL DETAIL

VEGETATION RESTORATION
TREE INSTALLATION

TABLE 1 - RECOMMENDED SEEDING SCHEDULE

RIPARIAN BUFFER MIX (ERNMIX-178)
APPLICATION RATE: 20 LBS PER ACRE OR 1/2 LB PER 1,000 SQUARE FEET

SCIENTIFIC NAME	COMMON NAME	PERCENT COMPOSITION
PANICUM CLANDESTINUM	DEERTONGUE	13%
CAREX VULPINOIDEA	FOX SEDGE	10%
ELYMUS VIRGINICUS	VIRGINIA WILDRYE	8%
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	8%
ELYMUS RIPARIUS	RIVERBANK WILDRYE	8%
SORGHASTRUM NUTANS	INDIANGRASS	7%
CHAMAECRISTA FASCICULATA	PARTWIDGE PEA	6%
CORNUS AMOMUM	SILKY DOGWOOD	6%
ANDROPOGON GERARDII	BIG BLUESTEM	5%
PANICUM VIRGATUM	SWITCHGRASS	4%
RUDBECKIA HIRTA	BLACKEYED SUSAN	3%
BAPTISIA AUSTRALIS	BLUE O INDIIGO	3%
VERBENA HASTATA	BLUE VERVAIN	3%
VIBURNUM DENTATUM	ARROWWOOD	2%
MONARDA PUNCTATA	SPOTTED BEEBALM	2%
VERONICA CRISTATA	SWAY IRONWEED	2%
EUPATORIUM PERFORIATUM	BONESSET	2%
JUNCUS EFFUSUS	SOFT RUSH	2%
HELOPSIS HELIANTHOIDES	OXEYE SUNFLOWER	2%
EUTHAMIA GRAMINIFOLIA	GRASSLEAF GOLDENROD	1%
PARTHENIUM INTEGRIFOLIUM	WILD QUININE	1%
LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1%
HELENIUM AUTUMNALE	COMMON SNEEZEWEED	1%

NOTES:

- THIS MIX WILL BE APPLIED (SEEDED AND MULCHED) OVER ANY EXPOSED GROUND SURFACE WITHIN ZONE 1 AND ZONE 2 OF THE RESTORED FORESTED RIPARIAN BUFFER.
- THIS MIX IS PREPARED BY ERNST CONSERVATION SEED. A SUITABLE ALTERNATIVE MAY BE USED BASED UPON APPROVAL BY THE ENGINEER OR REPRESENTATIVE.

FLOOD PLAIN MIX (ERNMIX-154)
APPLICATION RATE: 15 LBS PER ACRE OR 1/3 - 1/2 LB PER 1,000 SQUARE FEET

SCIENTIFIC NAME	COMMON NAME	PERCENT COMPOSITION
ELYMUS VIRGINICUS	VIRGINIA WILDRYE	20%
CAREX VULPINOIDEA	FOX SEDGE	20%
PANICUM CLANDESTINUM	DEERTONGUE	14%
SORGHASTRUM NUTANS	INDIANGRASS	10%
ANDROPOGON GERARDII	BIG BLUESTEM	10%
PANICUM VIRGATUM	SWITCHGRASS	5%
CAREX CRINITA	FRINGED (NODDING) SEDGE	4%
HELENIUM AUTUMNALE	COMMON SNEEZEWEED	3%
VERBENA HASTATA	BLUE VERVAIN	3%
HELOPSIS HELIANTHOIDES	OXEYE SUNFLOWER	2%
EUPATORIUM PERFORIATUM	BONESSET	2%
ASTER PUNCTATUS	PURPLESTEM ASTER	2%
ASCLEPIAS INCARNATA	SWAMP MILKWEED	1%
LUDWIGIA ALTERNIFOLIA	SEEDBOX	1%
MONARDA PUNCTATA	SPOTTED BEEBALM	1%
EUTHAMIA GRAMINIFOLIA	GRASSLEAF GOLDENROD	1%

NOTES:

- THIS MIX WILL BE APPLIED (SEEDED AND MULCHED) OVER ANY EXPOSED GROUND SURFACE WITHIN THE RESTORED NON-FORESTED RIPARIAN BUFFER.
- THIS MIX IS PREPARED BY ERNST CONSERVATION SEED. A SUITABLE ALTERNATIVE MAY BE USED BASED UPON APPROVAL BY THE ENGINEER OR REPRESENTATIVE.

TABLE 2 - RECOMMENDED NATIVE TREE, SHRUB AND LIVE STAKE SPECIES

ZONE 1 (50 FEET WIDE)

SCIENTIFIC NAME	COMMON NAME	PLANT FORM	SPACING (FEET)	SIZE / CONTAINER
ACER SACCHARUM	SUGAR MAPLE	TREE	12	#1
BETULA ALLEGHANIENSIS	YELLOW BIRCH	TREE	12	#1
BETULA LENTIA	BLACK BIRCH	TREE	12	#1
LIRIODENDRON TULIPIFERA	TULIP POPLAR	TREE	12	#1
QUERCUS ALBA	WHITE OAK	TREE	12	#1
QUERCUS RUBRA	RED OAK	TREE	12	#1
QUERCUS VELITINA	BLACK OAK	TREE	12	#1
PINUS STROBUS	WHITE PINE	TREE	12	#1
TSUGA CANADENSIS	EASTERN HEMLOCK	TREE	12	#1

NOTES:

- IF EXISTING FORESTED RIPARIAN BUFFER IS LESS THAN 50 FEET WIDE, NATIVE TREES SHOULD BE PLANTED TO THE EXTENT OF THE EXISTING FORESTED RIPARIAN BUFFER.
- USE 12-FOOT SPACING FOR ALL TREES AND SHRUBS.

ZONE 2 (50 TO 250 FEET WIDE)

SCIENTIFIC NAME	COMMON NAME	PLANT FORM	SPACING (FEET)	SIZE / CONTAINER
ACER SACCHARUM	SUGAR MAPLE	TREE	12	#1
BETULA ALLEGHANIENSIS	YELLOW BIRCH	TREE	12	#1
BETULA LENTIA	BLACK BIRCH	TREE	12	#1
LIRIODENDRON TULIPIFERA	TULIP POPLAR	TREE	12	#1
QUERCUS ALBA	WHITE OAK	TREE	12	#1
QUERCUS RUBRA	RED OAK	TREE	12	#1
QUERCUS VELITINA	BLACK OAK	TREE	12	#1
PINUS STROBUS	WHITE PINE	TREE	12	#1
TSUGA CANADENSIS	EASTERN HEMLOCK	TREE	12	#1
CORNUS SP.	SHRUB	SHRUB	12	#1
GAYLUSSACIA SP.	HUCKLEBERRY	SHRUB	12	#1
KALMIA LATIFOLIA	MOUNTAIN LAUREL	SHRUB	12	#1
LINDERA BENZOIN	SPIGELSH	SHRUB	12	#1
RHOODODENDRON SP.	RHOODODENDRON	SHRUB	12	#1
VACCINIUM SP.	BLUEBERRY	SHRUB	12	#1
VIBURNUM SP.	ARROWWOOD	SHRUB	12	#1

NOTES:

- THE WIDTH OF ZONE 2 WILL VARY DEPENDING ON THE LOCATION OF THE WATER BODY (PA VS. NJ), THE SURFACE WATER CLASSIFICATION (SEE TABLE II.1 IN RESTORATION NARRATIVE) AND THE WIDTH OF THE EXISTING FORESTED RIPARIAN BUFFER.
- IF THE EXISTING FORESTED RIPARIAN BUFFER IS LESS THAN THE MINIMUM REQUIRED WIDTH BASED ON TABLE II.1, NATIVE TREES AND SHRUBS SHOULD BE PLANTED TO THE EXTENT OF THE EXISTING FORESTED RIPARIAN BUFFER.

LIVE STAKES

SCIENTIFIC NAME	COMMON NAME	PLANT FORM	SPACING (FEET)
SALIX SP.	WILLOW	LIVE STAKE	2
CORNUS SP.	DOGWOOD	LIVE STAKE	2

NOTES:

- LIVE STAKES SHOULD BE PLANTED ONLY ALONG WATER BODY BANKS WITH EXISTING WOODY VEGETATION.
- LIVE STAKES SHOULD BE PLANTED IN THE DORMANT SEASON BETWEEN NOVEMBER AND APRIL. ROOTED CUTTINGS OR CONTAINERIZED PLANTS OF SALIX AND CORNUS SPECIES SHOULD BE PLANTED IN PLACE OF LIVE STAKES BETWEEN MAY AND OCTOBER.

TABLE A - PERMANENT VEGETATION

SPECIES	SEEDING *			RECOMMENDED APPLICATION DATES
	APPLICATION RATES PURE LIVE SEED ** (LBS/AC)	PER ACRE	PER 1,000 SQ. YD.	
BIRDFOOT TREFOIL, PLUS TALL FESCUE	10 35			MARCH 1 - NOVEMBER 15

SOIL AMENDMENT

TYPE	APPLICATION RATE			NOTES
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	
AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-20-20 FERTILIZER	1,000 LB.	25 LB.	210 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS

**** REFER TO SITE RESTORATION PLANS FOR RIPARIAN AND WETLAND SEEDING/PLANTING**

**** PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. TO CALCULATE THE ACTUAL PLANTING RATE, DIVIDE PLS SHOWN ON THE SEED TAG. THIS, IF THE PLS CONTENT OF A GIVEN SEED LOT IS 35%, DIVIDE PLS BY 0.35 TO OBTAIN THE POUNDS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS.**

TABLE B - TEMPORARY VEGETATION

SPECIES	SEEDING *			RECOMMENDED APPLICATION DATES
	APPLICATION RATES PURE LIVE SEED ** (LBS/AC)	PER ACRE	PER 1,000 SQ. YD.	
ANNUAL RYEGRASS	15			MARCH 1 - NOVEMBER 15
WINTER RYE	112			NOVEMBER 16 - FEBRUARY 28

SOIL AMENDMENT

TYPE	APPLICATION RATE			NOTES
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	
AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
10-10-20 FERTILIZER	500 LB.	12.5 LB.	100 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES

**** REFER TO SITE RESTORATION PLANS FOR RIPARIAN AND WETLAND SEEDING/PLANTING**

**** PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. TO CALCULATE THE ACTUAL PLANTING RATE, DIVIDE PLS SHOWN ON THE SEED TAG. THIS, IF THE PLS CONTENT OF A GIVEN SEED LOT IS 35%, DIVIDE PLS BY 0.35 TO OBTAIN THE POUNDS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS.**

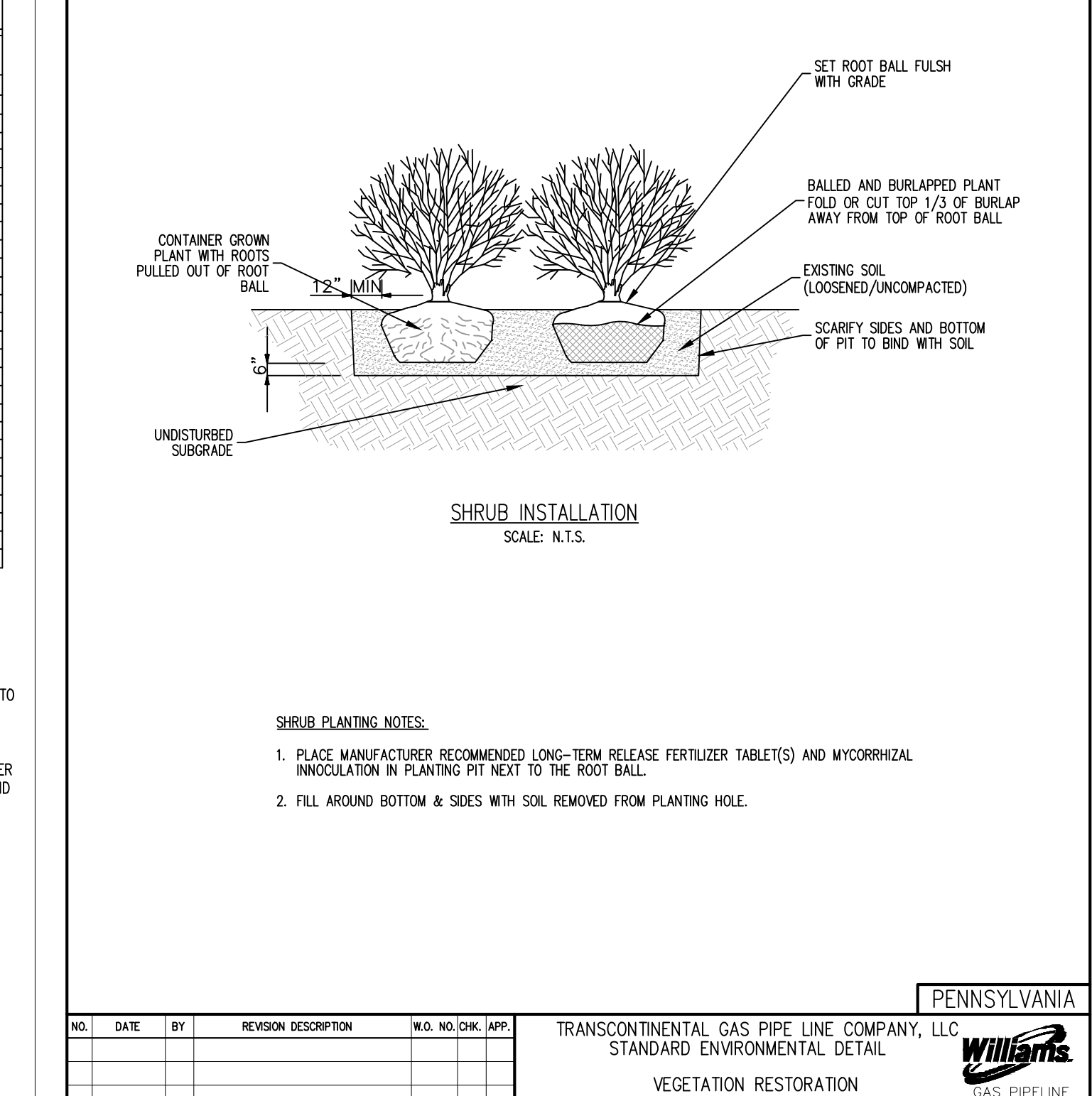


TABLE 11.6 - MULCH APPLICATION RATES

MULCH TYPE	PER ACRE	APPLICATION RATES (MIN.)		NOTES
		PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	
STRAW	3 TONS	140 LB.	1,240 LB.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN.
HAY	3 TONS	140 LB.	1,240 LB.	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6 TONS	185-275 LB.	1,640-2,500 LB.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1 TON	47 LB.	415 LB.	SEE LIMITATIONS IN MULCH NOTES

NOTES:

- PRIOR TO ANY SEEDING, LIME OR FERTILIZATION APPLICATION, A SOIL TEST SHALL BE PERFORMED TO DETERMINE THE pH FACTOR. ADDITIONAL LIME AND FERTILIZER MAY BE REQUIRED. NO LIME OR FERTILIZERS SHALL BE USED IN WETLAND AREAS.
- LIME, FERTILIZER, SEED AND MULCH DISTURBED AREAS PER THE EROSION AND SEDIMENT CONTROL PLANS. IN AREAS OF STEEP SLOPES OR OBVIOUS AREAS WHERE POTENTIAL EROSION MAY OCCUR, AND EROSION CONTROL MAT OR FLEXIBLE GROWTH MEDIUM (FGM) SHALL BE USED. FGM SHALL BE APPLIED PER MANUFACTURER SPECIFICATIONS. NO LIME OR FERTILIZERS SHALL BE USED IN WETLAND OR STREAM AREAS.
- DIVERSION TERRACES WITHIN AGRICULTURAL OR RESIDENTIAL AREAS SHALL BE USED AS TEMPORARY FEATURES. WATERBARS MAY BE REMOVED WHEN THE TRIBUTARY DRAINAGE AREA IS AT LEAST 70% STABILIZED WITH PERENNIAL VEGETATION PER PA CHAPTER 102.22.
- A COMPOST BLANKET WHICH MEETS THE STANDARDS OF CHAPTER 11 OF THE PA E&S MANUAL MAY BE SUBSTITUTED FOR THE SOIL AMENDMENTS SHOWN ABOVE.

TABLE A - PERMANENT VEGETATION

SPECIES	SEEDING *			RECOMMENDED APPLICATION DATES
	APPLICATION RATES PURE LIVE SEED ** (LBS/AC)	PER ACRE	PER 1,000 SQ. YD.	
BIRDFOOT TREFOIL, PLUS TALL FESCUE	10 35			MARCH 1 - NOVEMBER 15

SOIL AMENDMENT

TYPE	APPLICATION RATE			NOTES
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	
AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-20-20 FERTILIZER	1,000 LB.	25 LB.	210 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS

**** REFER TO SITE RESTORATION PLANS FOR RIPARIAN AND WETLAND SEEDING/PLANTING**

**** PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. TO CALCULATE THE ACTUAL PLANTING RATE, DIVIDE PLS SHOWN ON THE SEED TAG. THIS, IF THE PLS CONTENT OF A GIVEN SEED LOT IS 35%, DIVIDE PLS BY 0.35 TO OBTAIN THE POUNDS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS.**

PETER P. HAAS, P.E.

08/22/2025

DATE

PENNSYLVANIA
PROFESSIONAL ENGINEER NO. PE078911

REVISIONS

NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

AECOM
625 WEST RIDGE PIKE, SUITE E-100
CONSHOHOCKEN, PA 19428
(610) 832-3500

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
SITE RESTORATION PLAN
NORTHEAST SUPPLY ENHANCEMENT PROJECT
PROPOSED 42" QUARRYVILLE LOOP
M.P. 1681.02 TO M.P. 1691.16
LANCASTER COUNTY, PENNSYLVANIA

Williams
GAS PIPELINE

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

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
STANDARD ENVIRONMENTAL DETAIL

VEGETATION RESTORATION
SHRUB INSTALLATION

DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
CAC	06/13/25	TBD	NTS

CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	REVISION:
JAC	06/13/25	TBD	1

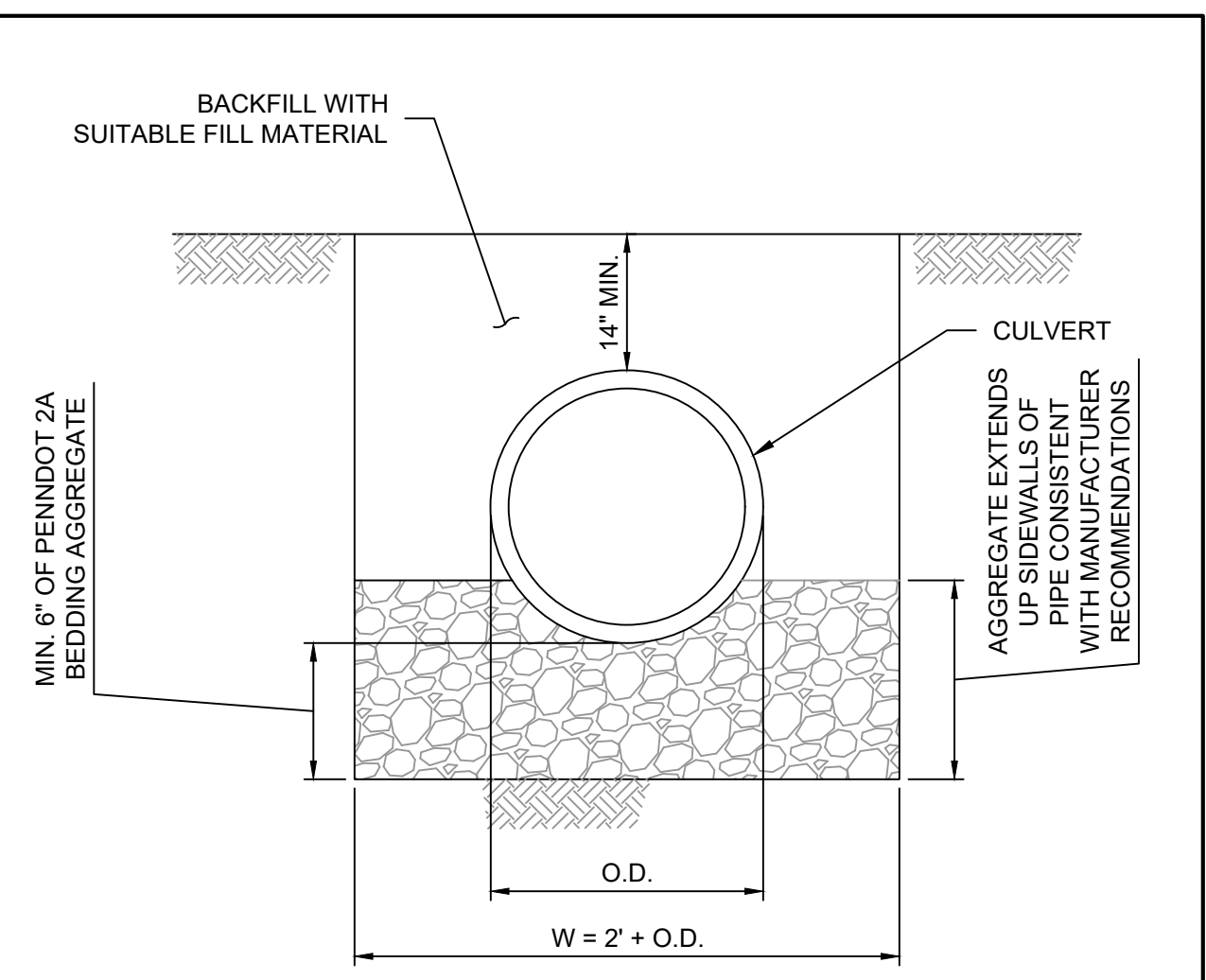
APPROVED BY:	DATE:	DRAWING NUMBER:	SHEET
PPH	06/13/25	26-0100-70-28-D	23

NO. 1185726

OF 26

Drawn By & Date/Time: Wisayantona Aug 21, 2025 1:05:30pm
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Drawn By: & Date/Time: Wisoyantona Aug 21, 2025 - 10:46am
Drawing Location & Name: L:\DCS\Projects\ENV\60757472_WMS_NESE_2025\900_CAD_GIS\910_CAD\Quarryville Loop 2025\20-SHEETS\SRV03 - Quarryville SR - Quarryville SR - Detail Sheets.dwg

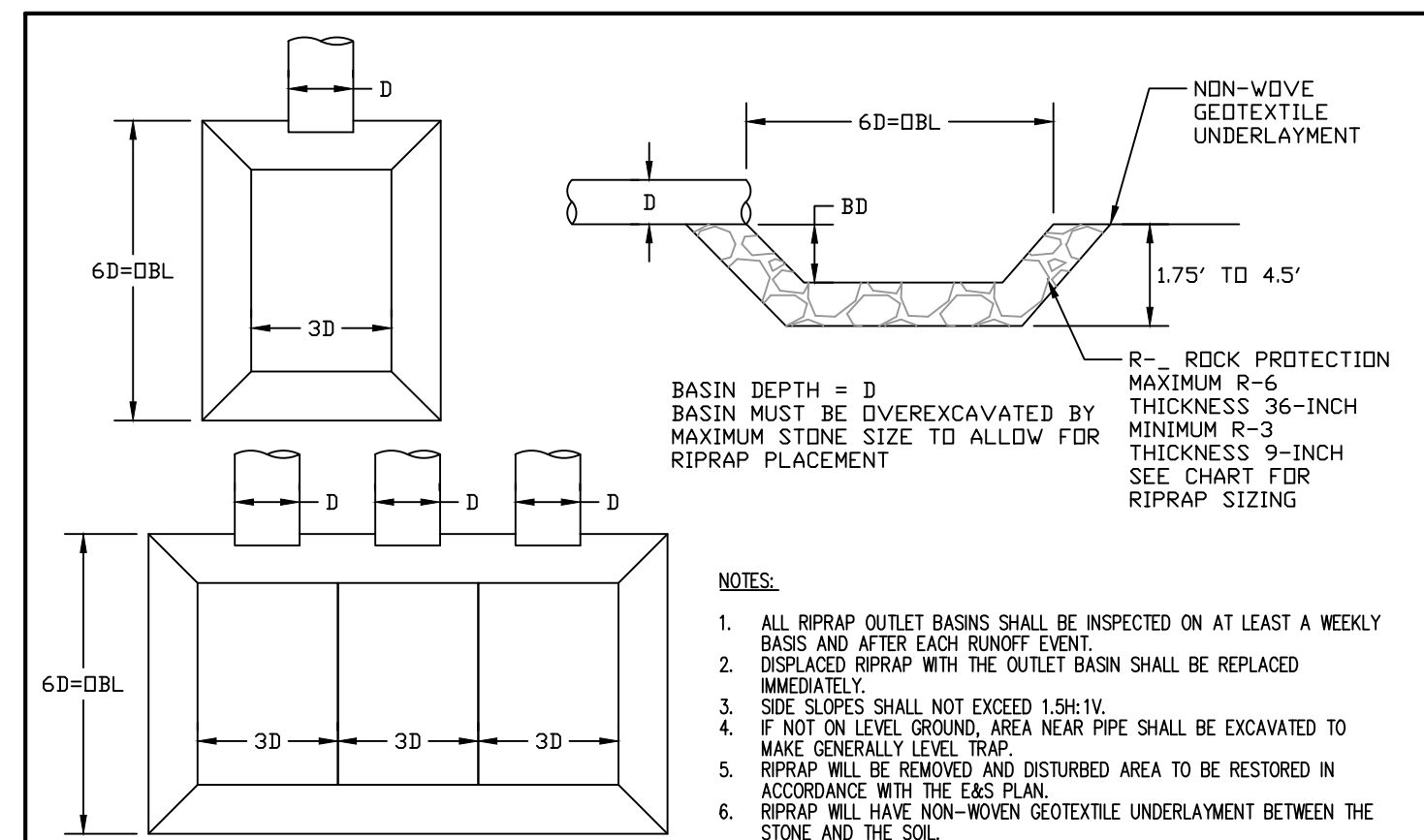


CULVERT I.D.	DIA (IN.)	MATERIAL	INV. UP. (FT.)	INV. DOWN (FT.)	LENGTH (FT)	SLOPE (FT/FT)
C-01	18	HDPE	473.00	471.00	85	0.023

CULVERT BEDDING DETAIL
N.T.S.

- NOTES:
- CUT AND FILL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF ROADWAY GRADING. THESE AREAS SHALL BE BLANKETED WHEREVER THEY ARE LOCATED WITHIN 50 FEET OF A SURFACE WATER OR WITHIN 100 FEET OF A SURFACE WATER WHERE A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST. STEEP SLOPES AT 3H:1V OR STEEPER SHALL BE PROTECTED AGAINST EROSION WITH EROSION CONTROL BLANKET SUITABLE FOR THE ESTABLISHMENT OF VEGETATION.
 - A DURABLE TOP DRESSING SHALL BE PROVIDED FOR SOILS HAVING LOW STRENGTH.
 - UPSLOPE CUT AREA SHALL BE LINED WITH EROSION CONTROL BLANKET.

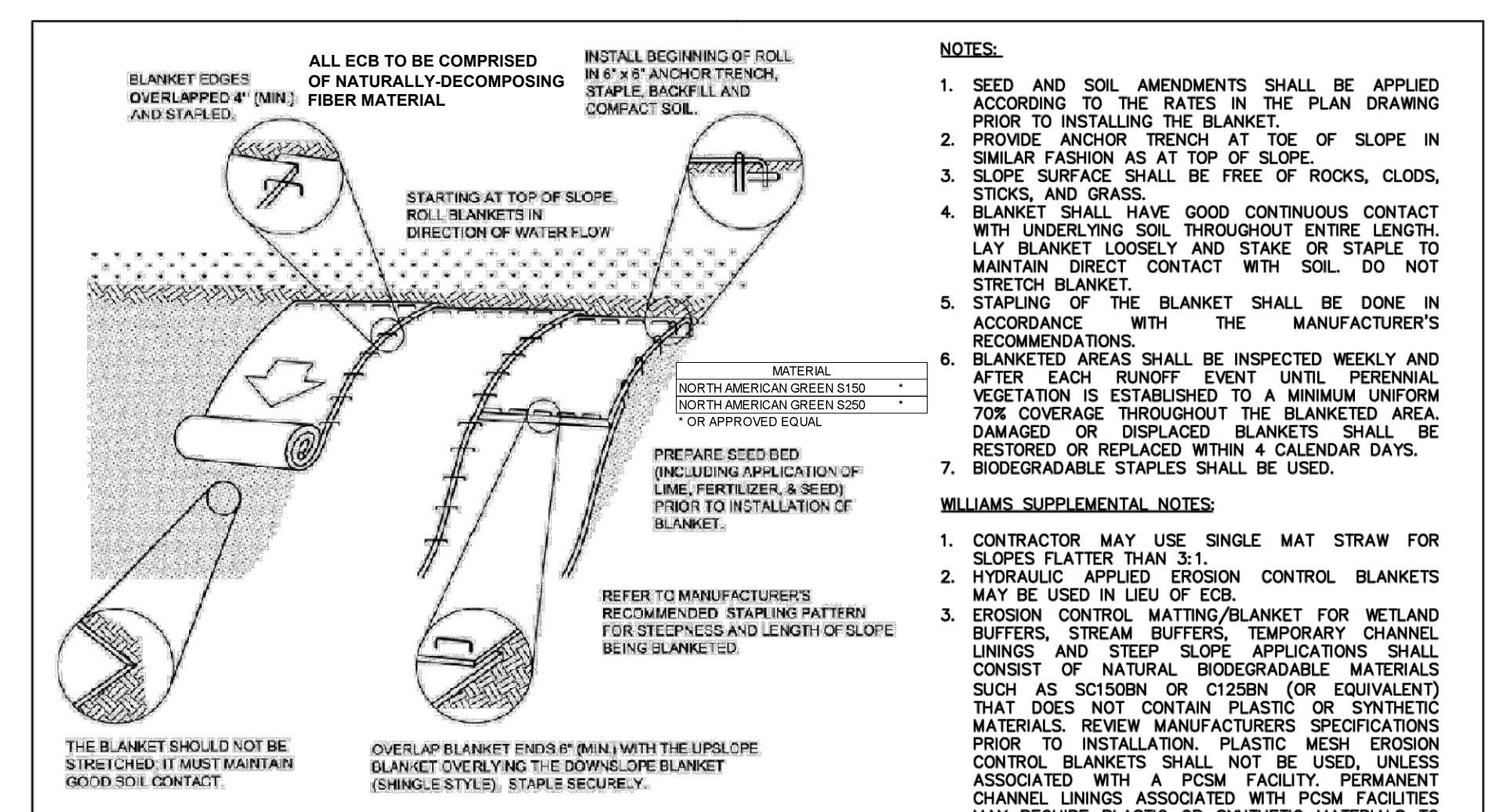
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
			STANDARD ENVIRONMENTAL DETAIL			
			CULVERT BEDDING			



OUTLET #	PIPE DIA. D (FT)	# OF PIPES	BASIN LENGTH 6D = OBL (FT)	BASIN WIDTH 3D (FT)	BASIN DEPTH D (FT)	RIPRAP SIZE	RIPRAP THICKNESS (FT)
1681.00	1.0	1	6	3	1.0	R-4	1.5
1682.07	1.0	3	6	9	1.0	R-4	1.5
1682.18	1.0	2	6	6	1.0	R-4	1.5
1682.25	1.0	2	6	6	1.0	R-4	1.5
1682.82	1.5	2	9	9	1.5	R-3	0.75
1683.19	1.0	2	6	6	1.0	R-3	0.75
1683.40	1.0	2	6	6	1.0	R-4	1.5
1683.61	1.0	2	6	6	1.0	R-3	0.75
1683.71	1.0	3	6	9	1.0	R-4	1.5
1683.79	1.5	2	9	9	1.5	R-4	1.5
1684.12	1.0	2	6	6	1.0	R-4	1.5
1684.28	1.0	1	6	3	1.0	R-4	1.5
1685.94	1.0	2	6	6	1.0	R-3	0.75
1686.75	1.0	1	6	3	1.0	R-3	0.75
1686.89	1.0	2	6	6	1.0	R-3	0.75
1686.96	1.0	2	6	6	1.0	R-4	1.5
1687.08	1.0	2	6	6	1.0	R-3	0.75
1688.05	1.5	1	9	4.5	1.5	R-4	1.5
1689.86	1.5	2	9	9	1.5	R-4	1.5
1690.53	1.0	1	6	3	1.0	R-4	1.5

CLEAN WATER CROSSING (RIP RAP OUTLET BASIN)
TEMPORARY EROSION CONTROL MEASURE
NOT TO SCALE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
			TRANSCONTINENTAL GAS PIPE LINE CORPORATION STANDARD ENVIRONMENTAL DETAIL			
			CLEAN WATER CROSSING (RIP RAP OUTLET BASIN) STANDARD CONSTRUCTION DETAIL #8-6			



1. RESTORATION NOTES

1.1 SCOPE OF WORK

CONTRACTOR SHALL SPECIFY IN HIS BID WHETHER HE INTENDS TO MULCH WITH HAY, STRAW, OR A PREFABRICATED "EROSION BLANKET" AS SPECIFIED IN COMPANY DRAWINGS AND AS SPECIFIED HEREIN. IF A VARIANCE FROM THESE DOCUMENTS IS DESIRED, CONTRACTOR SHALL SUBMIT PROPOSED SUBSTITUTIONS TO COMPANY'S AUTHORIZED REPRESENTATIVE FOR REVIEW AND APPROVAL.

WORK INCLUDES, BUT IS NOT LIMITED TO, THE INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES, INSTALLATION OF PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES, AND PLOWING OR SCARIFYING TO ATTAIN THE INDICATED SOIL CONDITIONS.

1.2 GENERAL

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD FOR SOIL EROSION AND SEDIMENT CONTROL FOR THE COMMONWEALTH OF PENNSYLVANIA (SEE SEPARATE EROSION AND SEDIMENT CONTROL PLAN).

2. REVEGETATION NOTES

2.1 SCOPE OF WORK

CONTRACTOR SHALL FURNISH ALL SUPERVISION, LABOR, MATERIALS, AND EQUIPMENT FOR DISKING, HARROWING, AND SCARIFYING THE TOPSOIL, ADDING LIME AND FERTILIZER, PLACING SEED, PLACING MULCH AND MULCH BINDERS, PLANTING SHRUBS, AND SPRIGGING INDIGENOUS PLANTS AS INDICATED ON COMPANY DRAWINGS AND AS SPECIFIED HEREIN.

2.2 GENERAL

VEGETATION SHALL BE USED AS A TEMPORARY AND PERMANENT EROSION CONTROL MEASURE.

UPON COMPLETION OF ANY EARTH DISTURBANCE ACTIVITY, THE SITE SHALL BE IMMEDIATELY STABILIZED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION

EROSION AND SEDIMENTATION CONTROLS SHALL BE LEFT IN PLACE UNTIL SUCH TIME AS THE DISTURBED AREAS HAVE PERMANENT VEGETATION. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

WHEN EROSION AND SEDIMENTATION CONTROLS ARE TO BE REMOVED IN AGRICULTURAL NON-SENSITIVE AREAS (STREAMS/WETLANDS), AGRICULTURAL LANDOWNERS SHALL MAINTAIN AGRICULTURAL BMPs PER PADEP REGULATIONS.

2.3 EXECUTION

A. TILLAGE:

CONTRACTOR SHALL THOROUGHLY LOSEN THE SURFACE OF THE ENTIRE DISTURBED AREA TO A DEPTH OF AT LEAST 3 TO 4 INCHES BY HARROWING, OR BY OTHER APPROVED METHODS UNTIL THE TILLAGE IS SATISFACTORY. TILL OR SCARIFY AREAS WHEN THE SURFACE IS GLAZED OR CRUSTED. SCARIFY AREAS PRIOR TO HYDROSEEDING.

CORRECT IRREGULARITIES RESULTING FROM SOIL EROSION AFTER THE CONSTRUCTED SLOPE SURFACES HAVE BEEN SHAPED, TRIMMED, AND ROUNDED. REMOVE AND DISPOSE OF STONE DEBRIS OVER 4 INCHES IN ANY DIMENSION AND OTHER OBJECTS DETRIMENTAL TO MAINTENANCE.

B. SEEDING:

CONTRACTOR SHALL SEED THE PROJECT AREA IN ACCORDANCE WITH THE MIXTURES SHOWN IN TABLE A. ALL SOIL DISTURBANCE OCCURRING OUTSIDE OF THE RECOMMENDED PERMANENT SEEDING SEASON, OR ANY BARE SOIL LEFT UNSTABILIZED BY VEGETATION, SHALL BE MULCHED. ALL SEEDING SHALL BE DONE WITHIN THE RECOMMENDED DATES. IF SEEDING CANNOT BE DONE WITHIN THE RECOMMENDED SEEDING DATES, TEMPORARY EROSION CONTROL SHALL BE USED AND SEEDING OF PERMANENT COVER SHALL BE DONE AT THE BEGINNING OF THE NEXT SEEDING SEASON.

SEED SLOPES STEEPER THAN 3:1 IMMEDIATELY AFTER FINAL GRADING.

SEED AREAS THAT ARE TO BE REVEGETATED WITHIN 6 WORKING DAYS OF FINAL GRADING.

PURCHASE SEED IN ACCORDANCE WITH THE PURE LIVE SEED (PLS) SPECIFICATION FOR SEED MIXES.

SEED SHALL BE USED WITHIN 9 MONTHS OF TESTING.

TREAT LEGUME SEED WITH AN INOCULANT SPECIFIC TO THE SPECIES. FOR CONVENTIONAL SEEDING, USE 4 TIMES THE MANUFACTURER'S RECOMMENDED RATE OF INOCULANT, AND 10 TIMES THE RECOMMENDED RATE IF HYDROSEEDING.

SEED SHALL BE APPLIED UNIFORMLY OVER THE AREA AND SHALL BE COVERED WITH NO MORE THAN 0.75 INCHES OF TOPSOIL. THE CONTRACTOR SHALL SPECIFY WHETHER THE SEED WILL BE DISTRIBUTED USING A DRILL OR BROADCAST FROM A HYDROSEEDER. SEED SHALL NOT BE BROADCAST BY HAND.

1. DRILL SEEDING:

DRILL SEEDING SHALL BE DONE USING A GRASS DRILL EQUIPPED WITH 3 SEED BOXES, ONE FOR CHAFFY SEED (BLUESTEM, RYE GRASS), ONE FOR FINE SEED (BERMUDA GRASS), AND ONE "CLOVER" BOX. DELIVERY FROM EACH BOX SHALL BE INDIVIDUALLY CONTROLLED. CONTRACTOR SHALL USE SEED MIXTURES AND QUANTITIES SHOWN IN TABLE A ON THE DETAIL SHEET, UNLESS OTHERWISE REQUESTED BY AND APPROVED BY THE

COMPANY'S AUTHORIZED REPRESENTATIVE.

DRILLS SHALL BE EQUIPPED WITH DRAG CHAINS AND PRESS WHEELS.

2. HYDROSEEDING:

IF HYDROSEEDING, CONTRACTOR SHALL APPLY SEED AT 2 TIES THE RATES INDICATED IN TABLE A. WHEN SEED AND FERTILIZER ARE SIMULTANEOUSLY DISTRIBUTED IN WATER SLURRY, EACH COMPONENT SHALL BE UNIFORMLY APPLIED AT THE SPECIFIED RATE, AND THE MIXTURE SHALL BE APPLIED TO THE AREA TO BE SEEDD WITHIN 30 MINUTES AFTER ALL COMPONENTS ARE PLACED IN THE EQUIPMENT. IF ONLY SEED IS DISTRIBUTED IN THE WATER SLURRY, THE SLURRY SHALL NOT BE STORED FOR MORE THAN 2 HOURS FOR LATER USE. ALL UNUSED SLURRY SHALL BE DUMPED AT THE END OF THE DAY.

AFTER PLACING SEED, SANDY SOILS SHOULD BE CULTIPACKED PRIOR TO MULCHING.

C. SOIL SUPPLEMENTS:

PRIOR TO TILLAGE, SOIL SUPPLEMENTS SHALL BE APPLIED UNIFORMLY TO THE AREAS TO BE SEEDD.

ON AREAS WITH TOPSOIL, BLEND THE INITIAL SOIL SUPPLEMENTS INTO THE SOIL AS DEEPLY AS POSSIBLE, BY RIKING, DISKING, HARROWING, OR BY ANOTHER APPROVED METHOD. THE BLENDING OF THE SUPPLEMENTS INTO THE SOIL MAY BE PERFORMED DURING TILLAGE OPERATIONS.

D. MULCHING:

MULCHES SHALL BE APPLIED AT THE RATES SHOWN IN TABLE 11.6

STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 450 F ARE TYPICALLY REQUIRED. APPLICATION SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEEDD AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSS BY WIND. THE REMAINDER OF THE AREA SHOULD HAVE BINDER APPLIED UNIFORMLY. BINDERS MAY BE APPLIED AFTER MULCH IS SPREAD OR SPRAYED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE SOIL. APPLYING STRAW AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE.

SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES.

MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING. LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A MINIMUM.

NO MULCH SHALL BE APPLIED IN WETLANDS.

MULCH SHALL BE FREE FROM FOREIGN MATERIAL, COARSE STEMS, ANY SUBSTANCES TOXIC TO PLANT GROWTH. MULCH SHALL BE FREE FROM MATURE SEED BEARING STALKS OR ROOTS OF PROHIBITED AND NOXIOUS WEEDS.

E. TEMPORARY EROSION CONTROL:

TEMPORARY SEEDING WITH STRAW MULCH COVER FOR INTERIM STABILIZATION IS A TYPE OF BMP THAT CAN BE PROVIDED WHERE THE EARTH DISTURBANCE ACTIVITY TEMPORARILY CEASES (I.E. 4 DAYS OR MORE) UNLESS DIRECTED BY THE PROJECT OWNER, PADEP, OR CONSERVATION DISTRICT

THE INSTALLATION OF AN EROSION CONTROL BLANKET OR APPLICATION OF STRAW MULCH UPON SEEDBED CAN BE UTILIZED TO PROTECT THE SEEDBED UNTIL VEGETATION IS ESTABLISHED. A TEMPORARY GROUND COVER OF QUICK GERMINATING GRASSES SHALL BE ESTABLISHED USING THE MIXTURE IN TABLE B.

F. STABILIZATION DURING NON-GROWING SEASONS

WHEN UTILITY CONSTRUCTION MUST BE DONE AND IS COMPLETED DURING A NON-GROWING SEASON, INTERIM STABILIZATION BMPs MUST BE IMPLEMENTED AND ADEQUATELY MAINTAINED. THE APPLICATION OF STRAW MULCH AND THE RATE OF 3.0 TONS PER ACRE IS REQUIRED. THE BMPs SHOULD BE INSPECTED WEEKLY (UNLESS SNOW COVERED) AND AFTER EACH RUNOFF EVENT TO IDENTIFY AREAS THAT BECOME BARE.

BARE AREAS SHALL BE COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET. ALL TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROLS MUST BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.

LONG TERM OPERATION AND MAINTENANCE SCHEDULE

TRANSCO WILL BE RESPONSIBLE FOR THE PROPER CONSTRUCTION, STABILIZATION, AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS AND SITE RESTORATION/POST-CONSTRUCTION STORMWATER MANAGEMENT FACILITIES. TRANSCO WILL INSPECT THE VEGETATED AREAS FOR EROSION, DISTRESSED VEGETATION AND BARE GROUND.

GENERAL MAINTENANCE WILL INCLUDE THE REGULAR REMOVAL OF DEBRIS AND LITTER TO HELP PREVENT POSSIBLE DAMAGE TO VEGETATED AREAS. TRANSCO WILL CONTROL THE GROWTH OF WOODY VEGETATION BY MOWING (APPROXIMATELY TWO TIMES PER YEAR) AND CLEARING AS APPROPRIATE. ROUTINE INSPECTION, REPAIR, REPLACEMENT AND MAINTENANCE WILL ENSURE PROPER FUNCTION AND OPERATION OF THE BMPs. A WRITTEN REPORT DOCUMENTING EACH INSPECTIONS AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES SHALL BE PREPARED. ACCESS TO ALL BMPs FOR MAINTENANCE SHALL BE THROUGH TRANSCO OWNED PROPERTY AND/OR VIA RIGHT-OF-WAY EASEMENTS.

TRANSCO WILL PERFORM THE FOLLOWING MONITORING AND MAINTENANCE ACTIVITIES FOLLOWING CONSTRUCTION:

- FOLLOW-UP INSPECTIONS OF ALL DISTURBED AREAS WILL BE PERFORMED DURING THE FIRST AND SECOND GROWING SEASON FOLLOWING COMPLETION OF WORK TO VERIFY THE SUCCESS OF RE-VEGETATION.
- RE-VEGETATION IN NON-AGRICULTURAL UPLAND AREAS SHALL BE CONSIDERED SUCCESSFUL IF UPON VISUAL SURVEY THE DENSITY AND COVER OF NON-NUISANCE VEGETATION ARE SIMILAR IN DENSITY AND COVER TO ADJACENT UNDISTURBED LANDS. IN AGRICULTURAL AREAS, RE-VEGETATION SHALL BE CONSIDERED SUCCESSFUL IF CROP YIELDS ARE SIMILAR TO ADJACENT UNDISTURBED PORTIONS OF THE SAME FIELD. RESTORATION EFFORTS WILL CONTINUE UNTIL RE-VEGETATION IS SUCCESSFUL.
- RESTORATION OF RIPARIAN BUFFER AREAS WILL BE CONSIDERED SUCCESSFUL WHEN THE BANKS ARE STABILIZED WITH NO ACTIVE EROSION AND AT DESIRABLE PLANT MATERIAL IS ESTABLISHED ACROSS 80% AERIAL COVER OF THE TEMPORARY IMPACT AREA.
- RESTORATION OF WETLAND AREAS WILL BE CONSIDERED SUCCESSFUL WHEN THE COVER OF HERBACEOUS AND/OR WOODY SPECIES IS AT LEAST 80% OF THE TYPE, DENSITY, AND DISTRIBUTION OF THE VEGETATION IN ADJACENT WETLAND AREAS THAT WERE NOT DISTURBED BY CONSTRUCTION.
- MONITOR AND CORRECT PROBLEMS WITH DRAINAGE AND IRRIGATION SYSTEMS RESULTING FROM PIPELINE CONSTRUCTION IN ACTIVE AGRICULTURAL AREAS UNTIL RESTORATION IS SUCCESSFUL.
- RESTORATION SHALL BE CONSIDERED SUCCESSFUL WHEN THE RIGHT-OF-WAY SURFACE CONDITION IS SIMILAR TO ADJACENT UNDISTURBED LANDS, CONSTRUCTION DEBRIS IS REMOVED (UNLESS REQUESTED OTHERWISE BY THE LAND OWNER OR LAND MANAGING AGENCY), RE-VEGETATION IS SUCCESSFUL, AND PROPER DRAINAGE HAS BEEN RESTORED.
- WHERE NOXIOUS WEED AND INVASIVE PLANT SPECIES POPULATIONS IN DISTURBED AREAS EXCEED THE DENSITY OF ADJACENT, UNDISTURBED LOCATIONS, TRANSCO WILL CONSULT WITH A STATE-CERTIFIED APPLICATOR AND APPLICABLE REGULATING AGENCY TO CHOOSE THE MOST EFFECTIVE METHOD OF CONTROL (I.E., HERBICIDE, MECHANICAL, ETC.) AND THAT PREVENTION METHODOLOGY WILL BE CONSIDERED SUCCESSFUL IF THE DENSITY AND COVER OF NOXIOUS WEED AND INVASIVE PLANT SPECIES DOES NOT EXCEED THE DENSITY AND COVER OF THAT ON ADJACENT, UNDISTURBED LANDS.

IN ADDITION TO THE GENERAL RIGHT-OF-WAY MAINTENANCE DESCRIBED ABOVE, THE FOLLOWING BMPs SPECIFIC MAINTENANCE SHALL ALSO BE PERFORMED:

VALVE SITE INFILTRATION PADS

- ROUTINELY REMOVE TRASH AND DEBRIS.
- AFTER STORM EVENTS WITH RAINFALL DEPTHS GREATER THAN OR EQUAL TO 1 INCH OVER 24 HOURS, THE FOLLOWING MAINTENANCE SHALL OCCUR AT THE VALVE SITE INFILTRATION PADS:
 - INSPECT THE SURFACE FOR LOW SPOTS, RUTTING OR AREAS WHERE THE GEOWEB HAS BEEN EXPOSED. REPLACE/ADD STONE AS NECESSARY TO REPAIR.
 - IF STANDING WATER IS VISIBLE WITHIN THE STONE FOR GREATER THAN 72 HOURS AFTER THE STORM EVENT, THE STONE SHALL BE EXCAVATED, WASHED CLEAN OR REPLACED WITH NEW CLEAN STONE, AND RE-INSTALLED. IN THE EVENT THE GEOWEB IS DAMAGED DURING THIS PROCESS, IT SHALL BE REPLACED. ALL SEDIMENT REMOVED SHALL BE DISPOSED OR PROPERLY SEEDD AND STABILIZED.

DIVERSION TERRACES (WATER BARS)

- CHECK AND DISPOSE OF ANY SEDIMENT OR DEBRIS BLOCKING THE NORMAL FLOW OF WATER.
- DIVERSION TERRACES SHALL BE INSPECTED DURING REGULAR RIGHT-OF-WAY MAINTENANCE. CHECK VEGETATION DURING INSPECTION. REPAIR AND RE-SEED ANY ERODED AREAS DISTURBED BY EROSION OR SLOPE MOVEMENT.

WETLAND SOILS AND RESTRICTIVE LAYERS										
WETLAND NAME	INLET/OUT	CROSSING NUMBER	SOIL IMPACT UNIT	SOIL SERIES	FRAGIPAN PRESENT	FRAGIPAN DEPTH	RESTRICTIVE LAYER PRESENT	DEPTH TO BEDROCK	SOIL TEXTURE WITHIN PROFILE	DRAINAGE CLASS
W102-006	1681.5	1	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	> 80 INCHES	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-012	1683.5	2	MBF*	MANOR VERY STONY SILT LOAM 25 TO 70% PERCENT SLOPES	NO	-	NO	> 72 INCHES	CLAY LOAM	WELL DRAINED
W102-008	1685	3	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	NO	-	NO	6 TO 10 FEET	CLAY LOAM 0-30"	WELL DRAINED
W102-001*	1685.7	4	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	> 80 INCHES	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-001*	1685.6	4	GOB	CHESTER SILT LOAM 3 TO 8 PERCENT SLOPES	NO	-	NO	6 TO 10 FEET	SILT/CLAY CHANNERY LOAM	WELL DRAINED
W102-009*	1687.4	7	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	> 80 INCHES	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-009	1688.1	8	BA*	BAILE SILT LOAM	NO	-	YES	1 TO 10 FEET	SILT/CLAY CHANNERY LOAM	POORLY DRAINED
W102-010	1688.48	9	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	> 80 INCHES	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-010	1688.5	9	BA*	BAILE SILT LOAM	NO	-	YES	5 TO 10 FEET	SILT/CLAY CHANNERY LOAM	POORLY DRAINED
W102-001*	1688.7	10	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	> 80 INCHES	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-001*	1688.7	10	BA*	BAILE SILT LOAM	NO	-	YES	5 TO 10 FEET	SILT/CLAY CHANNERY LOAM	POORLY DRAINED
W102-008	1689.3	11	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	> 80 INCHES	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-008	1689.3	11	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	> 80 INCHES	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-011	1690.5	12	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	6 TO 10 FEET	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-001*	1690.9	13	GOB	GLENNVILLE SILT LOAM 3 TO 8 PERCENT SLOPES	YES	15 TO 30 INCHES	NO	6 TO 10 FEET	SILT/CLAY CHANNERY LOAM	MODERATELY WELL DRAINED
W102-001*	1690.9	13	BA*	BAILE SILT LOAM	NO	-	YES	5 TO 10 FEET	SILT/CLAY CHANNERY LOAM	POORLY DRAINED

* MANOR VERY STONY SILT LOAM 25 TO 70 PERCENT SLOPES IS LISTED BY NRCS AS HAVING A PARALLEL BEDROCK LAYER PRESENT
 * BAILE SILT LOAM LISTED BY NRCS AS HAVING A PARALLEL BEDROCK LAYER PRESENT
 * A SHALLOW AQUICLAD AND A TEXTURAL RESTRICTIVE LAYER WAS IDENTIFIED DURING THE WETLAND DELINEATION (W102-011)
 * A SHALLOW AQUICLAD AND A TEXTURAL RESTRICTIVE LAYER WAS IDENTIFIED DURING THE WETLAND DELINEATION (W102-010)
 * THE FRAGIPAN WAS FOUND TO BE PRESENT IN THE WETLAND DELINEATION (W102-001)
 * A SHALLOW AQUICLAD AND A FRAGIPAN WERE IDENTIFIED DURING THE WETLAND DELINEATION (W102-004)

BASED ON THIS ASSESSMENT, THE FOLLOWING WAS IDENTIFIED:
 1. ALL WETLANDS ARE AT A MINIMUM 5 FEET (60 INCHES) ABOVE BEDROCK, WITH WETLANDS AT CROSSINGS 2, 9, 10, AND 13 CONTAINING A RESTRICTIVE LAYER OF BEDROCK ASSOCIATED WITH THE BAILE SILT LOAM AND THE MANOR VERY STONY LOAM SOIL SERIES.
 2. NO CLAYS WERE IDENTIFIED WITHIN THE WETLANDS, ONLY SOME HAVE SOILS WITH CLAY COMPONENTS.
 3. A FRAGIPAN MAY BE PRESENT BETWEEN 15 AND 30 INCHES AT CROSSINGS 4, 7, 9, 10, AND 12 ASSOCIATED WITH THE GLENNVILLE SOIL SERIES.

TO MITIGATE FOR ANY POTENTIAL LATERAL LOSS OF HYDROLOGY WITHIN ALL WETLANDS, TRENCH PLUGS WILL BE PLACED IN THE PIPELINE TRENCH, AT THE BORDERS OF EACH WETLAND. IF BEDROCK IS ENCOUNTERED, THE TRENCH PLUGS WILL CONTAIN THE WETLANDS HYDROLOGY AND NO VERTICAL HYDROLOGY LOSS IS ANTICIPATED DUE TO THE BEDROCK CONTINUING TO ACT AS A RESTRICTIVE LAYER. WHEN CONSTRUCTING THRU THE WETLANDS, TOP SOIL AND SUB SOILS WILL BE SEGREGATED, IF CONDITIONS ARE SUITABLE AS DESCRIBED IN THE WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES. THE SOILS WILL BE PLACED BACK INTO THE TRENCH LINE IN THE SAME MANNER DURING PIPELINE RESTORATION.

IN ADDITION TO THE TRENCH PLUG INSTALLATION TO PREVENT LATERAL HYDROLOGY LOSS, THE FRAGIPAN WILL BE RESTORED AT THE IDENTIFIED CROSSINGS. TO COMPLETE THE CONSTRUCTION IN THESE RESOURCES, THE ENVIRONMENTAL INSPECTOR (EI) SHALL INVESTIGATE THE SOILS TO DETERMINE AT WHAT DEPTH THE FRAGIPAN IS LOCATED. WITHIN THE PROVIDED 15-30 INCH RANGE, ONCE IDENTIFIED, A TRIPLE LIFT TRENCH LINE TECHNIQUE WILL BE EMPLOYED TO PREVENT THE MIXING OF THE FRAGIPAN SOILS WITH OVERLYING SOIL. THE LIFTS WILL INCLUDE 1) TOPSOIL, 2) B HORIZONS NOT INCLUDING 8X (FRAGIPAN), AND 3) REMAINDER OF THE TRENCHING DEPTH. THIS TECHNIQUE WILL ENSURE FRAGIPAN MATERIAL IS NOT INCORPORATED INTO THE NEAR SURFACE NON-FRAGIPAN B HORIZON SOIL MATERIAL. EXCAVATED SOILS WILL BE REPLACED IN THE OPPOSITE ORDER AS THEY WERE REMOVED. PROPER HANDLING DURING EXCAVATION WITHIN FRAGIPAN SOIL UNITS WILL BE CLOSELY MONITORED BY THE EI TO PREVENT UNINTENTIONAL MIXING OF THE FRAGIPAN HORIZONS WITH THE OVERLYING SOIL HORIZONS.

VERNAL POOL RESTORATION PLAN

A VERNAL POOL (WB-T02-012) WAS IDENTIFIED AT CROSSING 2 AND WILL BE IMPACTED BY THE PROJECT. THE FEATURE IS APPROXIMATELY 65 FEET LONG AND 17 FEET WIDE AND 1 FOOT DEEP, IN ITS DEEPEST LOCATION. THE FEATURE IS GENERALLY AN OPEN WATER PORTION OF A LARGER WETLAND COMPLEX, W-T02-012. THE FEATURE RETAINS ITS HYDROLOGY DUE TO ITS CONCAVE, DEPRESSION SHAPE. IT IS LOCATED WITHIN THE FISHING CREEK FLOODPLAIN, THE LIKELY GROUNDWATER HYDROLOGIC SOURCE FOR THE VERNAL POOL. IMPACTS TO THE VERNAL POOL HAVE BEEN MINIMIZED TO THE EXTENT POSSIBLE DURING THE ROUTE DEVELOPMENT PROCESS BY CO-LOCATING THE QUARRYVILLE LOOP ALONGSIDE AN EXISTING TRANSCO PIPELINE RIGHT-OF-WAY. A TOTAL OF 184 SQUARE FEET OF THE VERNAL POOL WILL BE IMPACTED. THE PIPELINE TRENCH IS NOT LOCATED WITHIN THE VERNAL POOL, ONLY THE PROJECT'S WORKSPACE. REFER TO DRAWING NUMBER 26-0100-70-09/20-D/58100 VP ENTITLED "WB-T02-012 VERNAL POOL PLAN" PREPARED BY WHM CONSULTING WHICH PROVIDES DETAIL ON THE FEATURE, INCLUDING A PLAN VIEW AND CROSS SECTIONS. TO MITIGATE FOR IMPACTS TO THE RESOURCE, TRANSCO WILL MINIMIZE SOIL COMPACTION BY UTILIZING TIMBER MATS TO CROSS THE VERNAL POOL AND THE SURROUNDING WETLAND. THE VERNAL POOL IS OVAL SHAPED, 17' WIDE AT ITS WIDEST POINT WITHIN THE LOD AND APPROXIMATELY 65' LONG. THE TIMBER MATS (GENERALLY 12-16 FEET LONG AND 4-8 FEET WIDE) WILL BE PLACED ACROSS THE VERNAL POOL, IN A MANNER THAT THE LONG PORTIONS OF THE MAT CROSS THE DEPRESSION (I.E. THE 16' WIDE PORTION OF THE MAT IS PLACED OVER THE SHORT SIDE OF THE VERNAL POOL, MINIMIZING COMPACTION WITHIN THE DEEPEST PORTIONS). PIPELINE EXCAVATION IS NOT PROPOSED WITHIN THE VERNAL POOL PORTION OF THE WETLAND, ONLY PROJECT WORKSPACE IS SITED HERE. WHEN COMPLETING FINAL RESTORATION AND REMOVING THE TIMBER MATTING WITHIN THE VERNAL POOL, THE EL WILL BE ON SITE TO ENSURE THE SITE IS RESTORED TO PRE-CONSTRUCTION ELEVATIONS AND CONTOURS. NON-DISTURBED PORTIONS OF THE VERNAL POOL HABITAT SHOULD BE UTILIZED FOR REFERENCE DURING RESTORATION, ALONG WITH THE PRE-CONSTRUCTION SURVEY DATA. THE UNDISTURBED PORTIONS OF THE VERNAL POOL MAKE IT AN ADEQUATE REFERENCE RESOURCE. EROSION AND SEDIMENT CONTROLS WILL BE INSTALLED SURROUNDING THE WETLAND TO PREVENT SEDIMENTATION WITHIN THE RESOURCE.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.
 SITE RESTORATION PLAN
 NORTHEAST SUPPLY ENHANCEMENT PROJECT
 PROPOSED 42" QUARRYVILLE LOOP
 M.P. 1681.02 TO M.P. 1691.16
 LANCASTER COUNTY, PENNSYLVANIA



DRAWN BY: CAC	DATE: 06/13/25	ISSUED FOR BID: TBD	SCALE: NTS
CHECKED BY: JAC	DATE: 06/13/25	ISSUED FOR CONSTRUCTION: TBD	REVISION: 1
APPROVED BY: PPH	DATE: 06/13/25	DRAWING NUMBER: 26-0100-70-28-D	SHEET 25
NO: 1185726			OF 26

PETER P. HAAS, P.E.

 08/22/2025
 DATE
 PENNSYLVANIA
 PROFESSIONAL ENGINEER NO. PE078971

AECOM
 625 WEST RIDGE PIKE, SUITE E-100
 CONSHOHOCKEN, PA 19428
 (610) 832-3500

REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/13/2025	CAC	SUBMITTED TO LANCASTER COUNTY CONSERVATION DISTRICT	1185726	JAC	PPH
1	07/08/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH
2	08/22/2025	ZPH	REVISED PER DEP COMMENTS	1185726	JAC	PPH

Drawn By & Date/Time: Hunt, Aug 21, 2025 4:49:54pm
 Drawing Location & Name: L:\DCS\Projects\ENVA\60157472_WMS_NESC_2025\20-CAO\Quarryville Loop_2025\20-CAO\Quarryville Loop_2025\20-CAO\PROJECTS\SRV\03 - Quarryville - Detail Sheets.dwg

