

PLAN SUBMISSION CHECKLIST

[SEE DEQ GUIDANCE MEMO NO. 22-2012 FOR ADDITIONAL INSTRUCTIONS]

A. APPLICATION TYPE

☒ INITIAL SUBMISSION
☐ RESUBMISSION
☐ MODIFICATION with ACREAGE INCREASE
☐ MODIFICATION without ACREAGE INCREASE

DEQ PLAN # : _____
DEQ PLAN # : _____
DEQ PLAN # : _____

B. DESIGN PROFESSIONAL

GAI CONSULTANTS, INC.
RICHMOND OFFICE
4701 COX ROAD, SUITE 125
GLEN ALLEN, VA 23060
PH: (804) 270-9357
CONTACT: R. CRAIG MURPHY, P.E.

C. PROJECT DEVELOPER

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
2800 POST OAK BLVD, LEVEL 11
HOUSTON, TX 77056
CONTACT: JOSEPH DEAN, MANAGER PERMITTING

D. PROPERTY OWNER

PROPERTY OWNER:
CONTACT NAME: SEE PROVIDED LAND OWNER LIST
MAILING ADDRESS:
TELEPHONE NO:
EMAIL ADDRESS:

E. PROJECT INFORMATION

PROJECT NAME: SOUTHEAST SUPPLY ENHANCEMENT PROJECT
ADDRESS (911 ADDRESS IF AVAILABLE): SEE SECTION D
COUNTY (IF NOT LOCATED WITHIN A CITY): PITTSYLVANIA
TAX MAP NO. (OR GPIN): SEE SECTION D
LAT/LONG (6 DIGITS, DECIMAL DEGREES): SOUTHERN TERMINUS: 36.541649, -79.633208
NORTHERN TERMINUS: 36.83159, -79.339396
TOTAL LAND AREA OF DEVELOPMENT (1/100th ACRE): 504.67
ESTIMATED AREA TO BE DISTURBED (1/100th ACRE): 468.56
PROJECT STATUS: ☐ FEDERAL ☐ STATE ☐ PUBLIC ☒ PRIVATE
PART OF A LARGER COMMON PLAN OF DEVELOPMENT? ☐ YES ☒ NO (SEE CS-165 SITE PLAN UNDER SEPARATE COVER)
OFFSITE IMPROVEMENTS PROPOSED? ☐ YES ☒ NO

F. OFFSITE SUPPORT ACTIVITY INFORMATION

OFFSITE SUPPORT ACTIVITY NAME: N/A
ADDRESS (911 ADDRESS IF AVAILABLE): N/A
COUNTY (IF NOT LOCATED WITHIN A CITY): N/A
TAX MAP NO. (OR GPIN): N/A
LATITUDE (6 DIGITS, DECIMAL DEGREES): N/A
LONGITUDE (6 DIGITS, DECIMAL DEGREES): N/A
ESTIMATED AREA TO BE DISTURBED (1/100th ACRE): N/A

G. PLAN INFORMATION

GENERAL PLAN INFORMATION	SHEET NO.
1. VICINITY MAP	1
2. NORTH SCALE	1-63
3. PLAN LEGEND	3-63
4. PLAN SCALE	1-63
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PRE-DEVELOPMENT SITE INFORMATION	SHEET NO.
6. NARRATIVE OF PRE-DEVELOPMENT SITE CONDITIONS	94-97
7. EXISTING PROPERTY BOUNDARIES (INC. LEASE BOUNDARIES)	3-63
8. EXISTING TOPOGRAPHY (EXISTING CONTOURS)	3-63
9. EXISTING STREAMS, PONDS, DITCHES, WETLANDS & OTHER WATERS	3-63
10. EXISTING KARST FEATURES	N/A
11. EXISTING 100-YEAR FEMA FLOODPLAIN	3-63
12. RESOURCE PROTECTION AREAS	N/A
13. EXISTING IMPROVEMENTS (BUILDINGS, ROADS, PARKING & UTILITIES)	3-63
14. EXISTING VEGETATIVE AREAS (FOREST, OPEN SPACE & TURF)	3-63
15. EXISTING LAND COVER / USE TABULATION	SEE ATTACHED LAND COVER MAPS
16. EXISTING EASEMENTS (DEED BOOK/PAGE REF. OR INSTRUMENT #)	SEE SECTION D
17. PRE-DEV. DRAINAGE AREAS (ACREAGE, DIVIDES & FLOW PATHS)	SEE DRAINAGE AREA MAPS

POST-DEVELOPMENT SITE INFORMATION	SHEET NO.
18. NARRATIVE OF POST-DEVELOPMENT SITE CONDITIONS	94-97
19. PROPOSED PROPERTY BOUNDARIES (INC. LEASE BOUNDARIES)	3-63
20. PROPOSED LIMITS OF LAND DISTURBANCE (CLEARING & GRADING)	3-63
21. PROPOSED GRADING (PROPOSED CONTOURS INC. SWM PRACTICES) *ALL GRADING IS TEMPORARY EXCEPT MAIN LINE VALVE (MLV) SITES	16 & 34
22. PROPOSED 100-YEAR FLOODPLAIN	3-63
23. PROPOSED IMPROVEMENTS (BLDGS, ROADS, PARKING & UTILITIES)	3-63
24. PROPOSED VEGETATIVE AREAS (FOREST, OPEN SPACE & TURF)	SEE ATTACHED LAND COVER MAPS
25. PROPOSED LAND COVER / USE TABULATION	SEE ATTACHED LAND COVER MAPS
26. PROPOSED EASEMENTS	3-63
27. POST-DEV. DRAINAGE AREAS (ACREAGE, DIVIDES & FLOW PATHS)	SEE ATTACHED MLV PLANS

EROSION & SEDIMENT CONTROL INFORMATION	SHEET NO.
28. NARRATIVE OF PROP. EROSION & SEDIMENT CONTROLS	96-97
29. MINIMUM STANDARDS (9VAC25-840-40)	94-96
30. CRITICAL EROSION AREAS (VESCH, CHAPTER 6)	97
31. PROP. EROSION & SEDIMENT CONTROLS (VESCH, CHAPTER 3)	94-96
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33. HYDROLOGIC & HYDRAULIC COMPUTATIONS	N/A
34. INSPECTION, OPERATION & MAINTENANCE REQUIREMENTS	64-97

G. PLAN INFORMATION (CONT.)

POST-DEVELOPMENT WATER QUANTITY & WATER QUALITY INFO.	SHEET NO.
35. NARRATIVE OF PROP. SWM FACILITIES / PRACTICES	SEE ATTACHED MLV PLANS & CALCULATIONS
36. PROP. SWM FACILITIES / PRACTICES	SEE ATTACHED MLV PLANS & CALCULATIONS
37. HYDROLOGIC & HYDRAULIC COMPUTATIONS *	SEE ATTACHED MLV PLANS & CALCULATIONS
38. LONG-TERM INSP., OPERATION & MAINTENANCE REQUIREMENTS	SEE ATTACHED MLV PLANS & CALCULATIONS
39. OUTFALL SUMMARY TABLE WITH PRE, POST, AND ALLOWABLE DISCHARGE RATES USED FOR QUANTITY ASSESSMENT; IDENTIFY THE TYPE OF CONVEYANCE SYSTEM AT EACH POINT OF DISCHARGE	SEE ATTACHED MLV PLANS & CALCULATIONS

* STORM DRAIN DESIGN COMPUTATIONS AND HYDRAULIC GRADE LINE COMPUTATIONS SHOULD BE PROVIDED AND SHOULD INCLUDE EACH PIPE SEGMENT. IN ADDITION, STORM SEWER LONGITUDINAL PROFILES WITH HYDRAULIC GRADE LINE ELEVATIONS SHOULD BE INCLUDED FOR VISUAL REPRESENTATION. DESIGN CALCULATIONS AND CROSS-SECTIONS SHOULD BE PROVIDED FOR ALL OPEN MANMADE CHANNELS. CROSS-SECTIONS SHOULD SHOW AND LABEL THE 1-YEAR, 2-YEAR, AND 10-YEAR WATER SURFACE ELEVATIONS.

SOILS & GEOTECHNICAL INFORMATION	SHEET NO.
40. SOILS MAP (INC. NRCS SOIL TYPES)	3-63
41. SOILS TABULATION	SEE ATTACHED SOILS REPORT
42. GEOTECHNICAL INVESTIGATION / REPORT	SEE ATTACHED GEOTECHNICAL ENGINEERING LETTER REPORT

OTHER SUPPORTING INFORMATION	SHEET NO.
43. BOUNDARY SURVEY (18VAC10-20-370)	N/A
44. PHYSICAL IMPROVEMENT SURVEY (18VAC10-20-380)	N/A
45. TOPOGRAPHIC SURVEY (18VAC10-20-382)	3-63

H. LAND COVER TABULATION

EXISTING LAND COVER / USE	ACRES
1. IMPERVIOUS COVER	SEE ATTACHED LAND COVER MAPS
IMPERVIOUS COVER (% OF TOTAL LAND AREA OF DEVELOPMENT)	
2. MANAGED TURF	
3. OPEN SPACE	
4. FOREST COVER	
5. PRIME FARMLAND (NRCS FARMLAND CLASSIFICATION)	

PROPOSED LAND COVER / USE ("SITE" TAB OF VRRM SPREADSHEET)	ACRES
1. IMPERVIOUS COVER	SEE ATTACHED LAND COVER MAPS
IMPERVIOUS COVER (% OF TOTAL LAND AREA OF DEVELOPMENT)	
2. MANAGED TURF	
3. OPEN SPACE	
4. FOREST COVER	

* THE ABOVE LAND USES ARE FOR THE PIPELINE PORTION OF THE PROJECT ONLY. PLEASE REFER TO THE EDEN-MLV-02 AND EDEN-MLV-03 CALCULATIONS FOR THE LAND USE CHANGES WITHIN THE VALVE SITE DRAINAGE AREAS.

I. SOILS TABULATION

MAP UNIT SYMBOL	MAP UNIT NAME	HSG	K FACTOR	ERODIBILITY	ACRES IN LOD	% OF LOD
SEE ATTACHED SOILS REPORT						

J. EROSION & SEDIMENT CONTROL

ESC PLAN VARIANCE REQUEST: ☒ YES ☐ NO

IF "YES", PLEASE PROVIDE JUSTIFICATION FOR THE VARIANCE REQUEST:

SEE ATTACHED TRANSMITTAL LETTER

K. STORMWATER MANAGEMENT

APPLICABLE DESIGN CRITERIA: ☒ PART II B
☐ PART II C (GRANDFATHERING)
☐ PART II C (TIME LIMITS ON APPLICABILITY)
☐ "SAFE HARBOR"

OFFSITE COMPLIANCE OPTION(S)? ☒ YES ☐ NO

IF "YES", PLEASE DESCRIBE THE OFFSITE COMPLIANCE OPTION(S):

WATER QUALITY NUTRIENT CREDIT PURCHASE

DISCHARGE TO A KARST FEATURE(S)? ☐ YES ☒ NO

IF "YES", PLEASE DESCRIBE THE KARST FEATURE(S):

IF "YES", PLEASE DESCRIBE ANY KNOWN NATURAL HERITAGE RESOURCES IN THE KARST FEATURE(S):

SWM PLAN EXCEPTION REQUEST? ☐ YES ☒ NO

IF "YES", PLEASE PROVIDE THE JUSTIFICATION FOR THE EXCEPTION REQUEST:

*SEE WAIVER REQUESTS IN ATTACHED WATER QUANTITY AND WATER QUALITY MAPS

L. STORMWATER MANAGEMENT FACILITIES / PRACTICES

FACILITY NO.	FACILITY TYPE	LAT.	LONG.	REC. WATER	TOT. ACRES TREATED	IMP. ACRES TREATED	PLAN SHEET NO.
1	INFILTRATION TRENCH	39.747892	-79.429359	UNT TO WHITE OAK CREEK	1.20	0.22	T6 AND EDEN-MLV-03 SWM PLAN
2	DRY SWALE	36.629694	-79.547352	HARDY'S CREEK	0.62	0.33	EDEN-MLV-02 SWM PLAN

M. OWNER / DEVELOPER CERTIFICATION

I hereby certify that coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities will be obtained, if required, prior to commencing land-disturbing activities.

I hereby certify that all wetlands permits required by law will be obtained, if required, prior to commencing land disturbing activities.

I hereby certify that permission to construct any offsite improvements, if proposed, will be obtained prior to commencing land disturbing activities.

I hereby certify that all offsite nonpoint source nutrient credits will be obtained, if proposed, prior to commencing land disturbing activities.

I hereby certify that construction record drawings (as-built drawings) for all permanent stormwater management facilities/practices will be prepared and submitted to DEQ prior to project closeout. The construction record drawings will be appropriately sealed and by a professional registered in the Commonwealth of Virginia, certifying that the stormwater management facilities/practices have been constructed in accordance with the approved plan(s).

I hereby certify that a long-term maintenance agreement(s) for all permanent stormwater management facilities/practices and other techniques specified to manage the quality and quantity of runoff will be submitted to DEQ, if required, prior to project closeout. The long-term maintenance agreement(s) will be recorded in the local land records prior to termination of coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.

OWNER / DEVELOPER NAME: JOSEPH DEAN
OWNER / DEVELOPER TITLE: MANAGER PERMITTING
SIGNATURE:
DATE: 6/6/2025

N. DESIGN PROFESSIONAL CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I hereby certify that the plans and hydrologic & hydraulic computations herein are in compliance with the Stormwater Management Act and attendant regulations, the Erosion and Sediment Control Law and attendant regulations, and applicable DEQ guidance.

DESIGN PROFESSIONAL NAME: R. CRAIG MURPHY, P.E.
LICENSE NO.: 0402041898
SIGNATURE:
DATE: 6/6/2025

O. DUAL COMBINED ADMINISTRATOR (DCA) CERTIFICATION

[THIS DCA REVIEW IS INTENDED AS A QUALITY CONTROL REVIEW, A STREAMLINED PLAN REVIEW IS NOT REQUESTED.]

I hereby certify that the plans and hydrologic & hydraulic computations herein have been reviewed by myself and designee(s). Based on a quality control level review, the plans and computations are in general conformance with the intent of the laws and regulations and their applicability to linear projects. We recommend DEQ proceed a formal review.

DCA NAME: JAY LEMMERMAN, EIT
DCA CERTIFICATION NO.: DCA0383
SIGNATURE:
DATE: 6/6/2025

APPROVAL BLOCK

DEQ PLAN # 20__ - 0__

DEPT. OF ENVIRONMENTAL QUALITY

DATE

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
SOUTHEAST SUPPLY ENHANCEMENT PROJECT
EDEN LOOP
SOIL EROSION & SEDIMENT CONTROL PLAN



PLAN SUBMISSION CHECKLIST

PITTSYLVANIA COUNTY, VIRGINIA

DRAWN BY: CMK	DATE: 06/06/25	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY: JML	DATE: 06/06/25	ISSUED FOR CONSTRUCTION:	REVISION:
APPROVED BY: RCM	DATE: 06/06/25	DRAWING NUMBER: VA-EDEN-ES-000	SHEET 00 OF 99
WO: C1009554	RID: 500		

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
SOIL EROSION & SEDIMENT CONTROL PLAN

SOUTHEAST SUPPLY ENHANCEMENT PROJECT
EDEN LOOP

PITTSYLVANIA COUNTY, VIRGINIA

JUNE 2025

PROJECT OWNER/APPLICANT

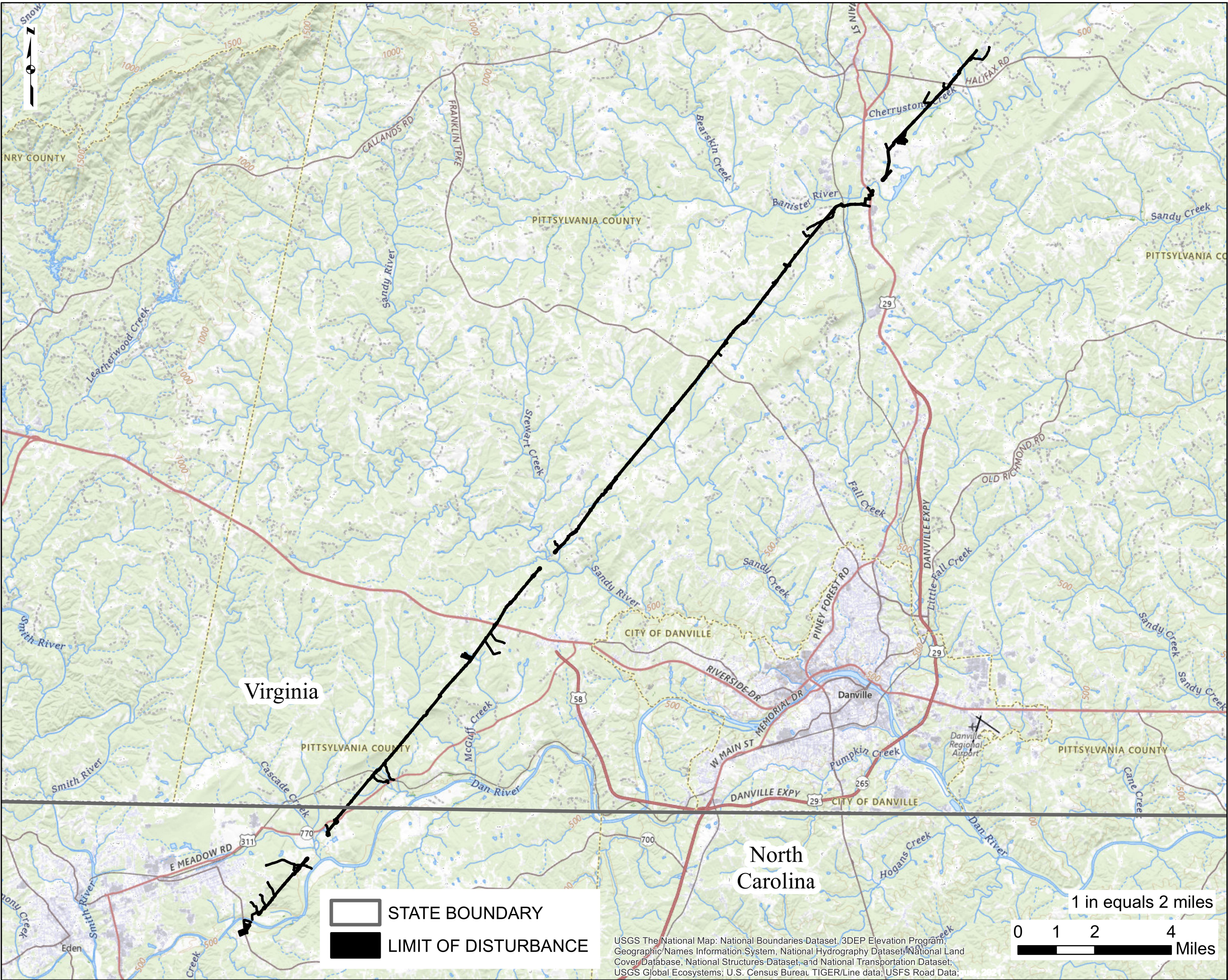
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
2800 POST OAK BLVD, LEVEL 11
HOUSTON, TX 77056
CONTACT: JOSEPH DEAN, MANAGER PERMITTING

PLAN PREPARER / ENGINEER

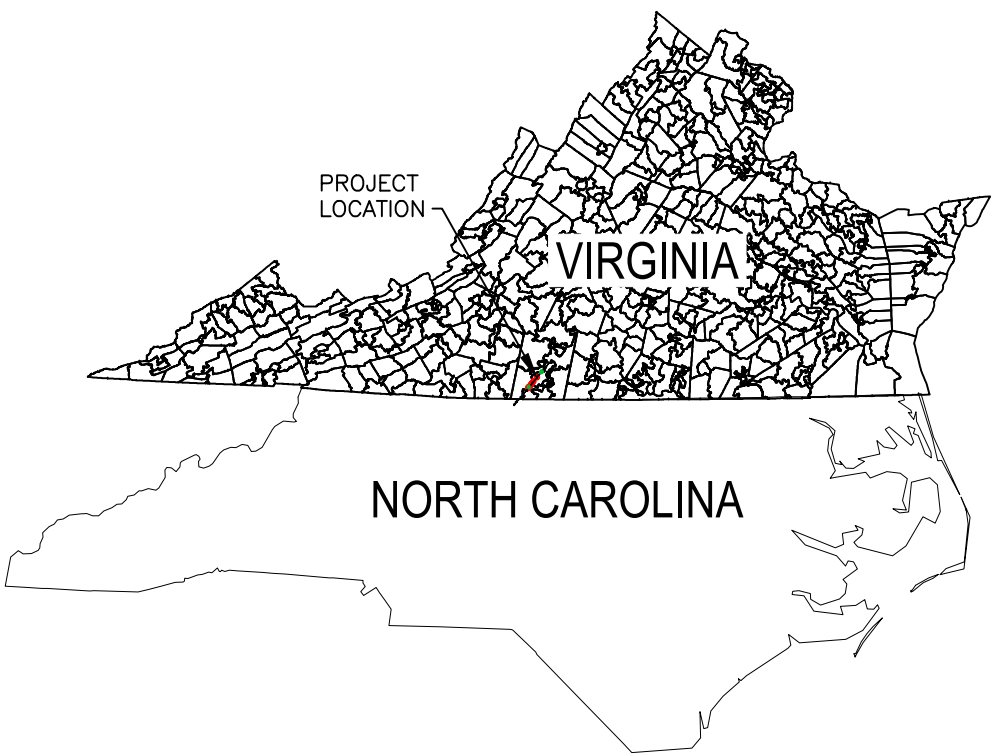
GAI CONSULTANTS
4701 COX ROAD, SUITE 125
GLEN ALLEN, VA 23060
PH: (804) 270-9357
CONTACT: R. CRAIG MURPHY, P.E.

PROJECT INFORMATION

LIMIT OF DISTURBANCE: 468.56 ACRES



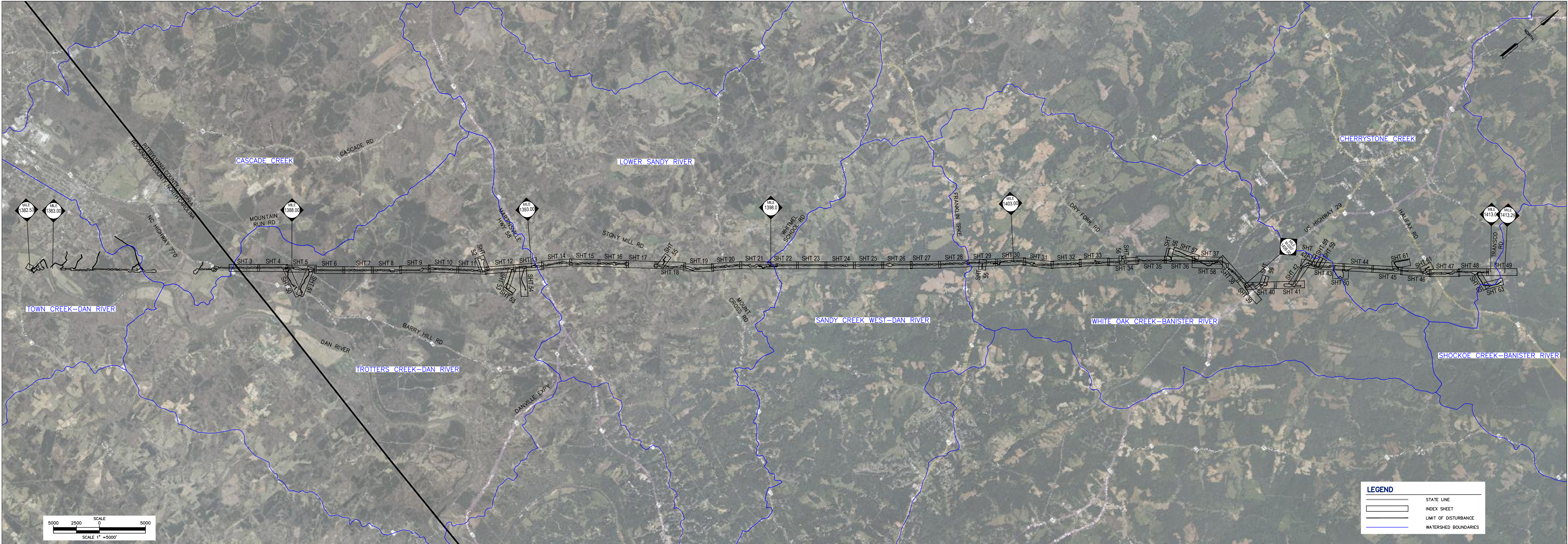
LOCATION MAP



VICINITY MAP
N.T.S.

SHEET INDEX	
SHEET NUMBER	DRAWING TITLE
1 OF 97	EROSION & SEDIMENT CONTROL COVER SHEET
2 OF 97	EROSION & SEDIMENT CONTROL INDEX SHEET
3 - 63 OF 97	EROSION & SEDIMENT CONTROL SITE PLANS
64 - 94 OF 97	EROSION & SEDIMENT CONTROL DETAILS
95 - 97 OF 97	EROSION & SEDIMENT CONTROL NARRATIVES

R. CRAIG MURPHY, P.E. RICHARD C. MURPHY Lic. No. 041898 06/09/22 PROFESSIONAL ENGINEER	REVISIONS						TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC SOUTHEAST SUPPLY ENHANCEMENT PROJECT EDEN LOOP SOIL EROSION & SEDIMENT CONTROL PLAN COVER SHEET PITTSYLVANIA COUNTY, VIRGINIA							
	NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.							
DRAWN BY: CMK		DATE: 5-30-25	ISSUED FOR BID:		SCALE: AS NOTED									
CHECKED BY: JML		DATE: 5-30-25	ISSUED FOR CONSTRUCTION:		REVISION:									
APPROVED BY: RCM		DATE: 5-30-25												
WO: C1009554		RID: 500	DRAWING NUMBER: VA-EDEN-ES-001											
											SHEET 1 OF 97			



HUC12 - ID	Watershed Name	Milepost Start	Milepost End
030101030903	Trotters Creek-Dan River	1386.89	1393.10
030101031003	Lower Sandy River	1393.10	1398.04
030101031004	Sandy Creek (West)-Dan River	1398.04	1402.04
030101050103	White Oak Creek-Banister River	1402.04	1409.70
030101050104	Cherrystone Creek	1409.70	1413.18
030101050203	Shockoe Creek-Banister River	1413.18	1413.29

REFERENCES:

- EXISTING CONTOURS PROVIDED BY TRANSCO FEBRUARY 19, 2024.
- AERIAL IMAGERY PROVIDED BY TRANSCO FEBRUARY 13, 2024. WHERE TREE LINES WERE NOT PICKED UP BY SURVEY, TREE LINES BOUNDARIES WERE SKETCHED IN USING AERIAL IMAGERY.
- HORIZONTAL DATUM BASED ON VIRGINIA STATE PLANE, SOUTH FEET.
- VERTICAL DATUM BASED ON NORTH AMERICAN DATUM OF 1988, NAVD88.
- ENVIRONMENTAL DELINEATIONS PERFORMED BY WETLAND STUDIES AND SOLUTIONS, INC. 2024–2025.
- GEOHAZARD MITIGATION AREAS BASED ON GEOTECHNICAL ENGINEERING REPORT DATED MAY 2025 BY CEC, INC.

NOTES:

- E&S CONTROLS SHOWN ON THIS DRAWING PACKAGE ARE IN ACCORDANCE WITH THE VADEQ REQUIREMENTS AND ARE BASED ON THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK, VERSION 1.1 TO SATISFY THE MINIMUM REQUIREMENTS OF E&S CONTROL. THESE E&S DRAWINGS ARE NOT INTENDED TO ACT AS CONSTRUCTION DRAWINGS, PROVIDE INSTALLATION INSTRUCTION, OR WARRANT THE SITE CONDITIONS. ADJUSTMENTS (INCLUDING LOCATION) AND/OR ADDITIONS TO PROPOSED CONTROLS MAY BE REQUIRED DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL MEANS, METHODS, PROCEDURES, SEQUENCING, AND TECHNIQUES INVOLVED WITH ALL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING AND PRESERVING THE INTEGRITY OF ALL ENVIRONMENTAL FEATURES AS DESCRIBED ELSEWHERE AND/OR ALL AREAS THAT ARE NOT SUPPOSED TO BE DISTURBED (E.G. WORK OUTSIDE THE LIMITS OF DISTURBANCE).
- PRIOR TO ANY EARTH DISTURBANCE ACTIVITIES, CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THAT CONDITIONS MATCH THOSE DEPICTED ON THE PLANS AND NOTIFYING TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC (TRANSCO'S) DESIGNATED REPRESENTATIVE OF ANY DISCREPANCIES (E.G. TOPOGRAPHY, DELINEATED WETLANDS/WATERBODIES, ACCESS ROADS, AND POINTS OF INGRESS AND EGRESS).
- THESE DRAWINGS HAVE BEEN PREPARED BASED ON GAI'S SCOPE OF SERVICES FOR SUBMISSION TO PERMITTING AGENCIES ONLY. GAI'S SCOPE OF SERVICES DID NOT INCLUDE UTILITY LOCATING SERVICES NOR COORDINATION WITH UTILITY LOCATING SOURCES, SUCH AS THE VIRGINIA ONE CALL, THAT MAY HAVE INFORMATION AVAILABLE ON THE LOCATION OF UTILITIES, PIPELINES OR OTHER BURIED STRUCTURES. ANY UTILITIES IDENTIFIED ARE FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR.
- ALL REFUELING, REPAIR AND CHANGING OF EQUIPMENT AND VEHICLE FLUIDS SHALL BE CONDUCTED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION OF RESOURCES.
- ALL TREES WITHIN LIMIT OF DISTURBANCE WILL BE CLEARED. SEE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN/WATER QUANTITY LAND COVER MAPS.
- EXISTING CULVERTS WITHIN THE LIMIT OF DISTURBANCE MAY BE REPLACED IN-KIND IF DAMAGED DURING CONSTRUCTION.
- CONTRACTOR TO COORDINATE WITH ENGINEER PRIOR TO REPLACING CULVERTS TO DETERMINE IF ANY ADDITIONAL ENVIRONMENTAL PERMITTING OR SURVEYING IS NECESSARY.

PROJECT DESCRIPTION

GAI CONSULTANTS, INC. (GAI) HAS PREPARED THIS EROSION AND SEDIMENT CONTROL PLAN (E&SCP) FOR TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC (TRANSCO), AN INDIRECT, WHOLLY OWNED SUBSIDIARY OF THE WILLIAMS COMPANIES, INC. (WILLIAMS). THE PLAN ADDRESSES EROSION AND SEDIMENTATION CONTROL (E&S) PRACTICES ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES FOR THE SOUTHEAST SUPPLY ENHANCEMENT PROJECT (EDEN LOOP), LOCATED IN PITTSYLVANIA COUNTY, VIRGINIA. THIS E&SCP HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK. THE PURPOSE OF THIS DOCUMENT IS TO PROVIDE ENGINEERING CALCULATIONS AND DESIGN DOCUMENTS THAT DETAIL THE IMPLEMENTATION OF E&S MEASURES DESIGNED SPECIFICALLY FOR THE PROJECT. THE DISCUSSION OF THE STRATEGIES UTILIZED FOR SEDIMENT CONTROL WILL PROVIDE CONFIRMATION THAT THE STANDARDS FOR SEDIMENT MANAGEMENT ARE MET AS OUTLINED. THE DISCUSSION WILL ALSO DEMONSTRATE THAT THE PROTECTION OF EXISTING DRAINAGE FEATURES AND EXISTING VEGETATION WAS A DESIGN OBJECTIVE, AND THAT EVERY EFFORT WAS MADE TO MINIMIZE LAND CLEARING, GRADING, AND SOIL COMPACTION.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC (TRANSCO), AN INDIRECT, WHOLLY OWNED SUBSIDIARY OF THE WILLIAMS COMPANIES, INC. (WILLIAMS), IS SEEKING AUTHORIZATION FROM THE FEDERAL ENERGY REGULATORY COMMISSION (FERC OR COMMISSION) UNDER SECTIONS 7(B) AND 7(C) OF THE NATURAL GAS ACT FOR APPROPRIATE ABANDONMENT AUTHORITY AND A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY (CERTIFICATE) TO CONSTRUCT, OWN, OPERATE, AND MAINTAIN THE PROPOSED PROJECT FACILITIES.

THE PROJECT IS AN EXPANSION OF TRANSCO'S EXISTING NATURAL GAS TRANSMISSION SYSTEM THAT WILL ENABLE TRANSCO TO PROVIDE 1,596,900 DEKAHERMS PER DAY (DTH/D) OF INCREMENTAL FIRM TRANSPORTATION CAPACITY TO REMOVE PIPELINE CAPACITY CONSTRAINTS IN ZONES 4 AND 5 AND MEET GROWING NATURAL GAS-FIRED POWER GENERATION, COMMERCIAL, RESIDENTIAL, AND INDUSTRIAL DEMAND IN THE SOUTHEAST UNITED STATES. TRANSCO IS PROPOSING TO COLLOCATE THE PROPOSED PROJECT WITHIN OR ADJACENT TO THE EXISTING TRANSCO MAINLINE SYSTEM TO THE EXTENT PRACTICABLE. THIS COLLOCATION DESIGN WILL HELP REDUCE THE OVERALL OPERATIONAL FOOTPRINT OF THE PROJECT, MINIMIZING NEW DISTURBANCES TO THE EXTENT PRACTICABLE. THE PROJECT WILL CONSIST OF THE FOLLOWING COMPONENTS:

PIPELINE FACILITIES;

APPROXIMATELY 26.8 MILES OF THE 42-INCH-DIAMETER PIPELINE IN PITTSYLVANIA COUNTY, VIRGINIA (VA), DESIGNATED AS THE EDEN LOOP.

COMPRESSION FACILITIES (UNDER SEPARATE COVER)

THE ADDITION OF TWO [33,000 HORSEPOWER (HP) EACH] ELECTRIC MOTOR-DRIVEN (EMD) COMPRESSOR UNITS AT TRANSCO'S EXISTING COMPRESSOR STATION 165 LOCATED IN PITTSYLVANIA COUNTY, VA. COMPRESSOR STATION 165 WILL BE LIMITED TO A TOTAL INCREMENTAL OUTPUT OF 45,000 HP, THEREBY INCREASING THE TOTAL CERTIFIED STATION OUTPUT TO 96,930 HP; FACILITY MODIFICATIONS

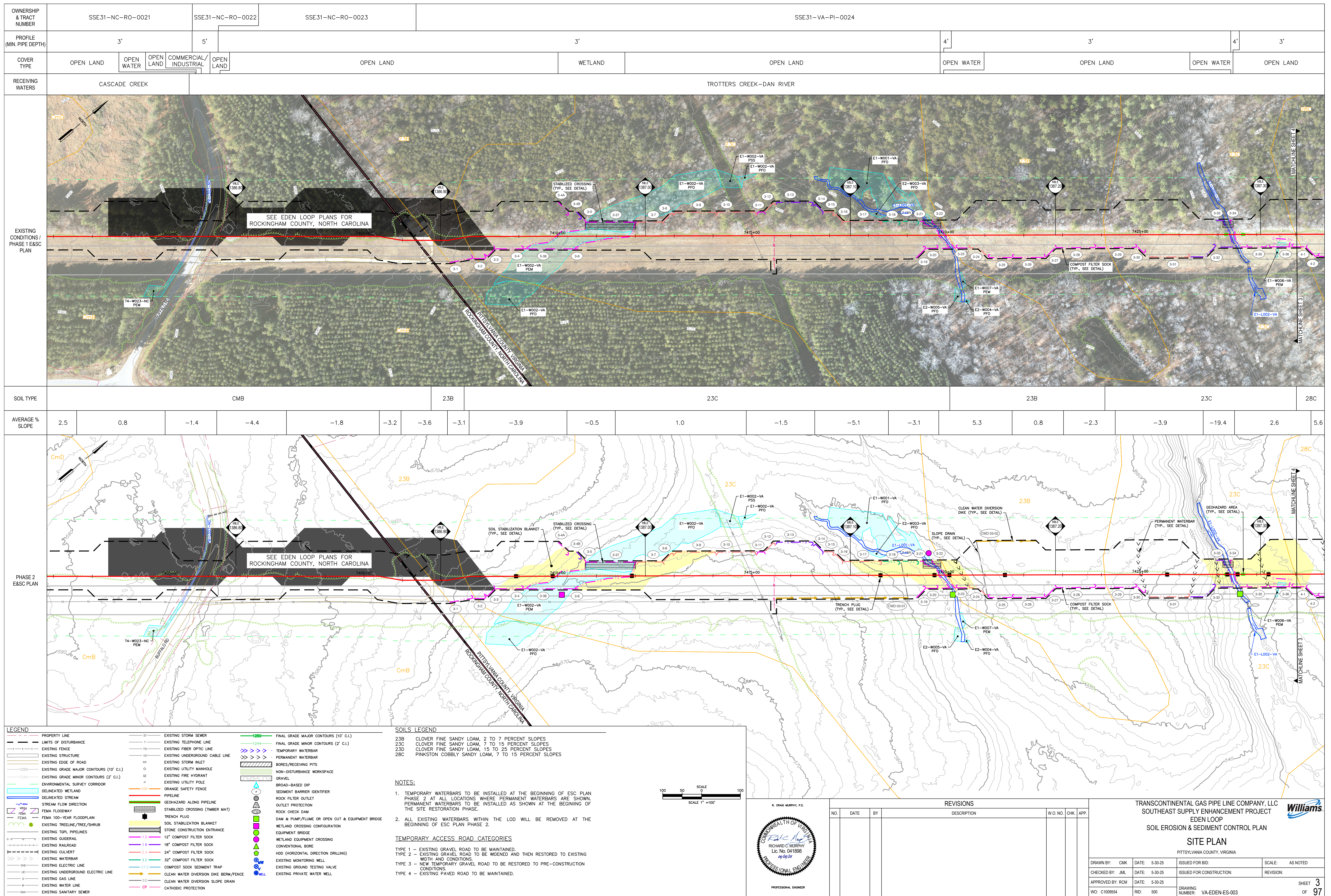
THE USE OF EXISTING, IMPROVED, AND NEW ACCESS ROADS, AND CONTRACTOR YARDS WILL ALSO BE REQUIRED FOR THE PROJECT. ADDITIONAL ANCILLARY FACILITIES AND PIPING, SUCH AS MLVS, CATHODIC PROTECTION, COMMUNICATION FACILITIES, AND INTERNAL INSPECTION DEVICES (E.G., PIG LAUNCHERS AND RECEIVERS) WILL BE NECESSARY TO SUPPORT THE PROJECT.

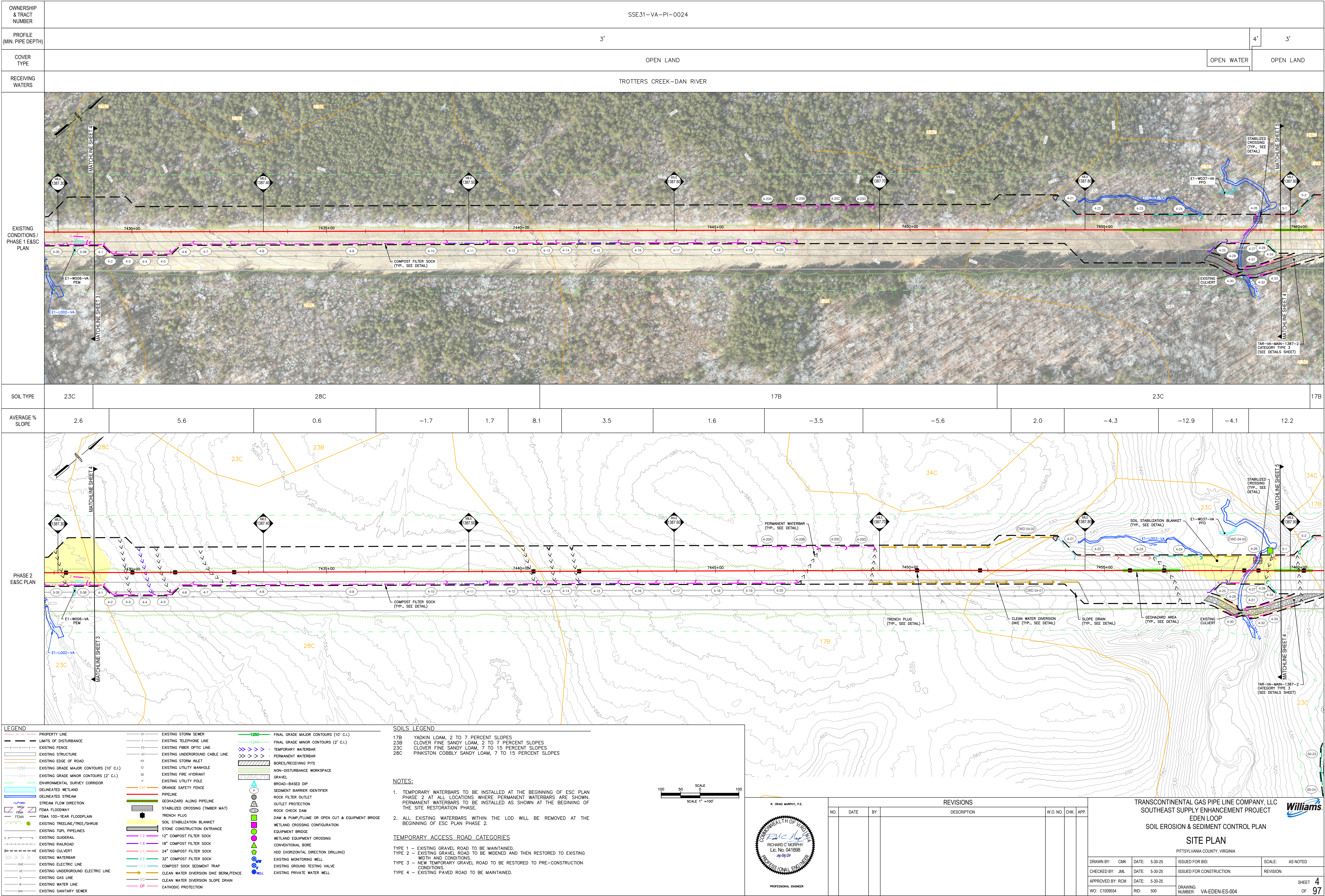
SUBJECT TO FERC'S CERTIFICATION OF THE PROJECT AND RECEIPT OF OTHER NECESSARY PERMITS AND AUTHORIZATIONS, TRANSCO ANTICIPATES CONSTRUCTION OF THE PROJECT WOULD COMMENCE IN MARCH 2026 TO MEET A PROPOSED PARTIAL IN-SERVICE DATE FOR THE PIPELINE COMPONENTS IN DECEMBER 2026 WITH A FULL PROJECT PROPOSED IN-SERVICE DATE OF NOVEMBER 1, 2027.

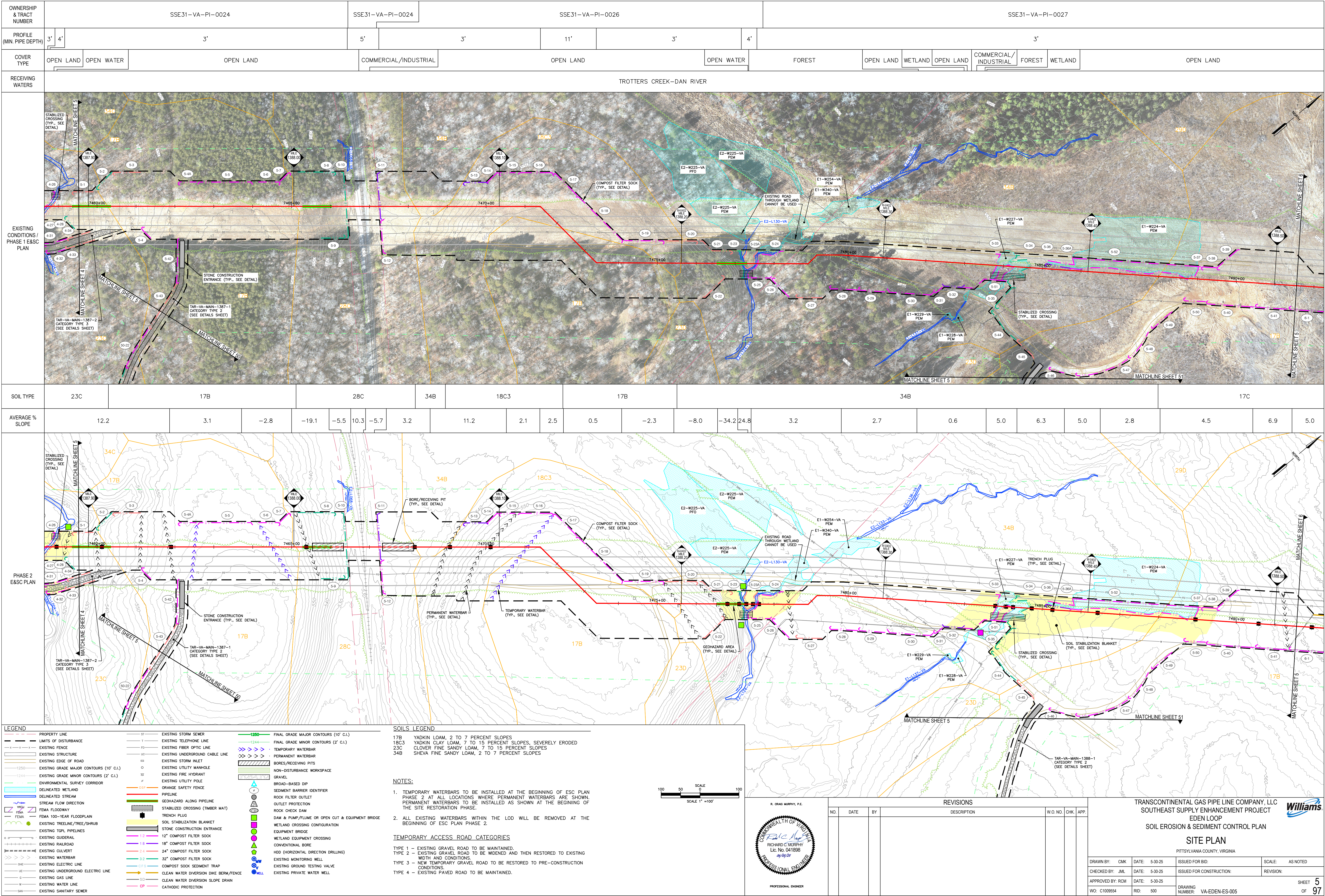
CONTRACTOR NOTES

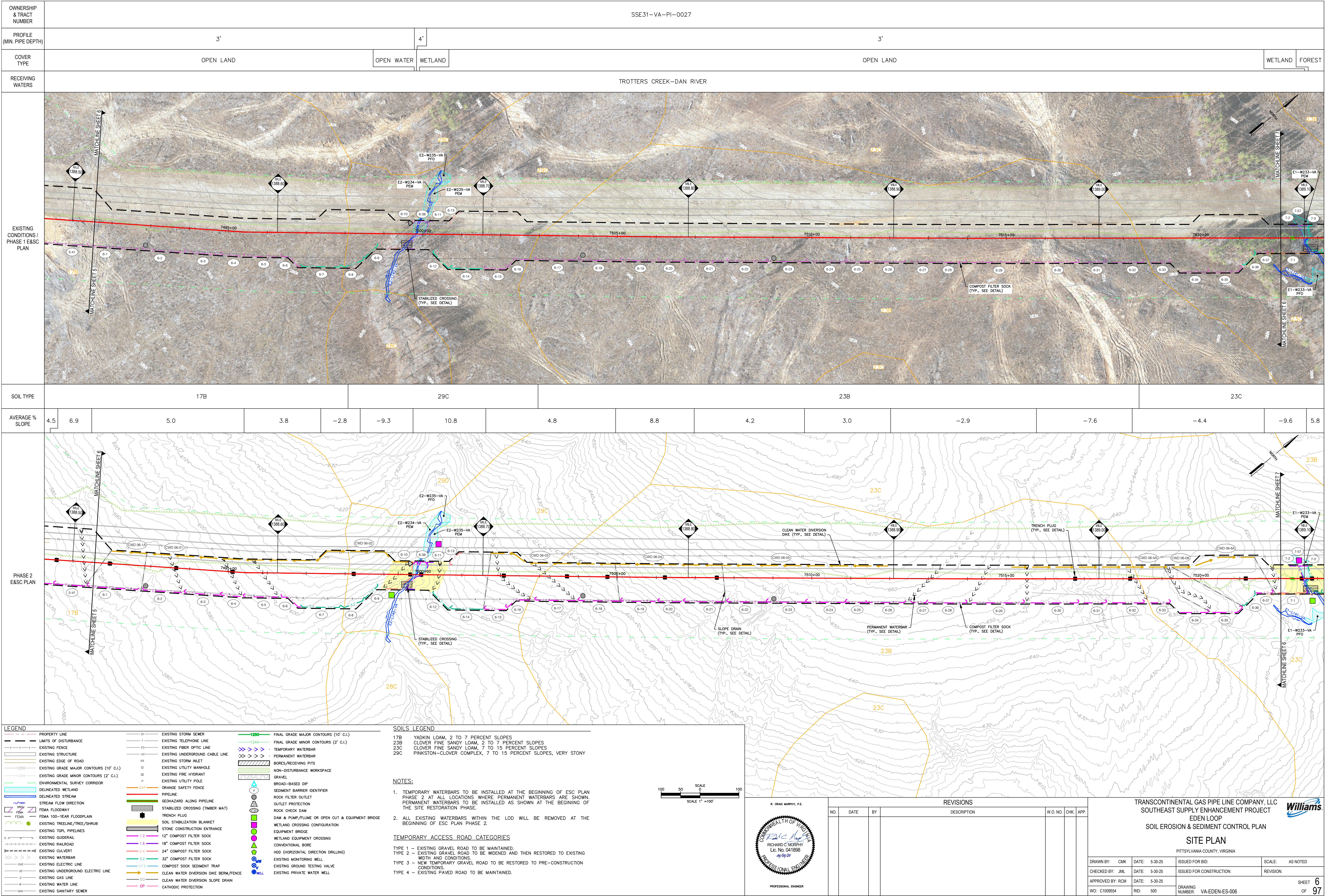
- ALL EXISTING UTILITY DATA IS PROVIDED FOR INFORMATIONAL USE ONLY. ALTHOUGH THE DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE DEVELOPER AND THE ENGINEER NEITHER ASSUME NOR IMPLY ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA.
- THE CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- IT WILL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONTRACTORS SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LINE LOCATES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY FOR ANY DAMAGES CAUSED TO THOSE COMPANIES' FACILITIES.
- ALL CONTRACTORS/SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATIONS. ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTORS AT THEIR EXPENSE AND SHALL BE APPROVED BY THE OWNER/REP. SAID EXISTING IMPROVEMENTS INCLUDE BUT ARE NOT LIMITED TO BERMS, DITCHES, FENCES, AND PLANTS.
- CONTRACTORS MUST CONDUCT ACTIVITIES IN ACCORDANCE WITH PERMIT CONDITIONS. NO ENCROACHMENTS OUTSIDE THE PROJECT WORKSPACE WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
- CONTRACTOR TO CONDUCT ACTIVITIES IN ACCORDANCE WITH WILLIAMS SAFETY REQUIREMENTS.

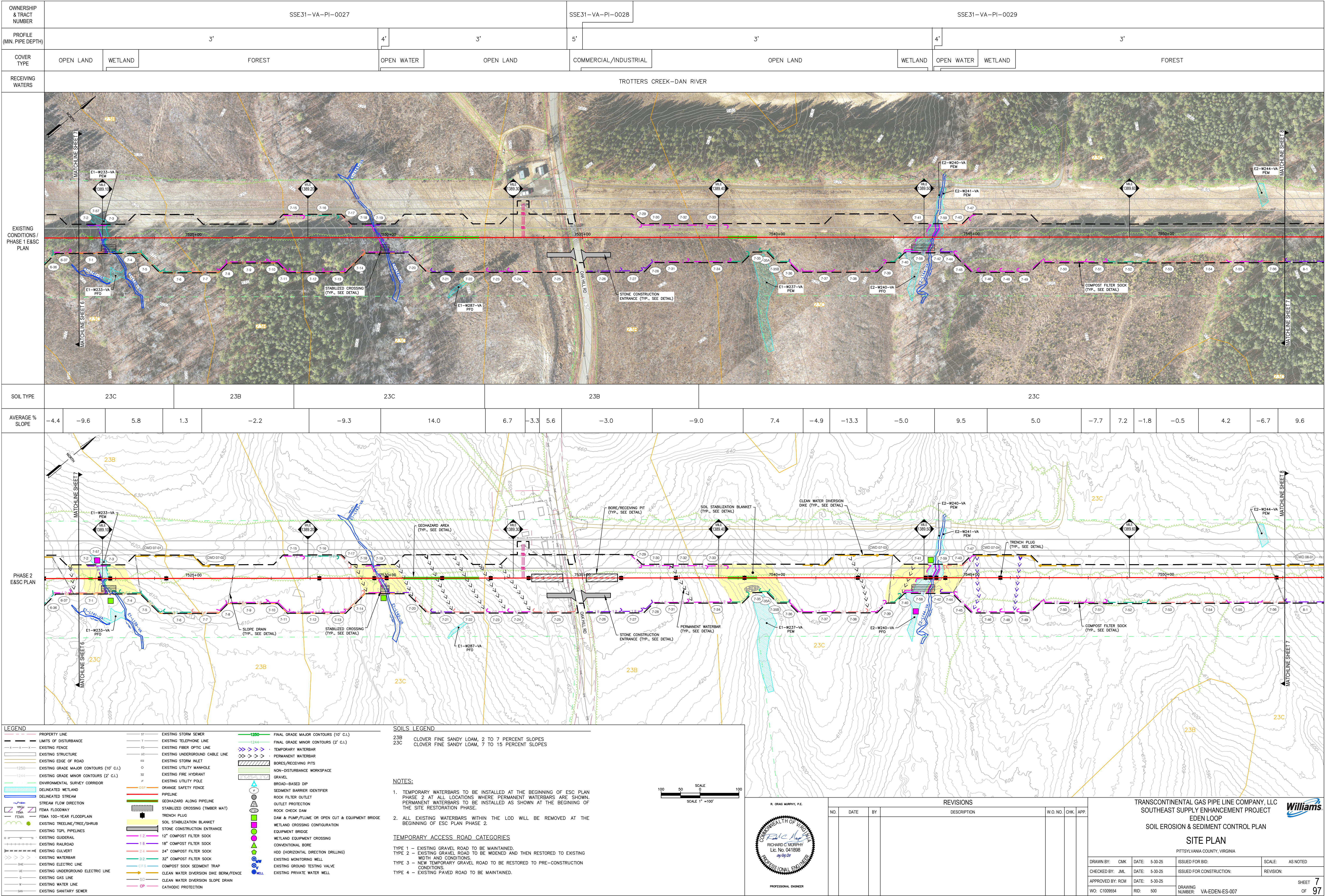
R. CRAIG MURPHY, P.E.  PROFESSIONAL ENGINEER	REVISIONS							TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC SOUTHEAST SUPPLY ENHANCEMENT PROJECT EDEN LOOP SOIL EROSION & SEDIMENT CONTROL PLAN						
	NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.	INDEX SHEET						
								PITTSYLVANIA COUNTY, VIRGINIA						
								DRAWN BY: CMK	DATE: 5-30-25	ISSUED FOR BID:			SCALE: AS NOTED	
								CHECKED BY: JML	DATE: 5-30-25	ISSUED FOR CONSTRUCTION:			REVISION:	
							APPROVED BY: RCM	DATE: 5-30-25				SHEET 2		
							WO. C1009554	RID: 500	DRAWING NUMBER: VA-EDEN-ES-002			OF 97		

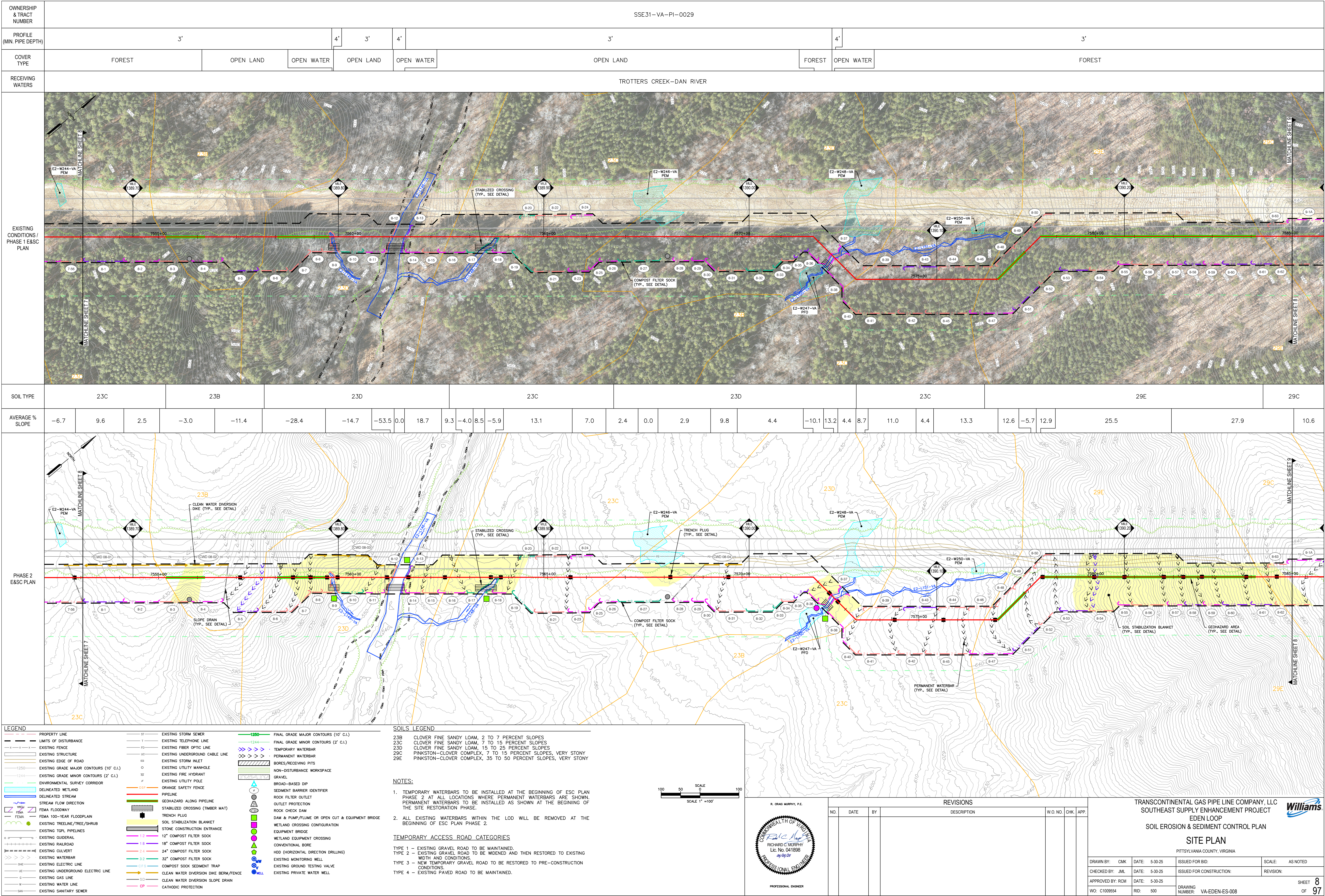


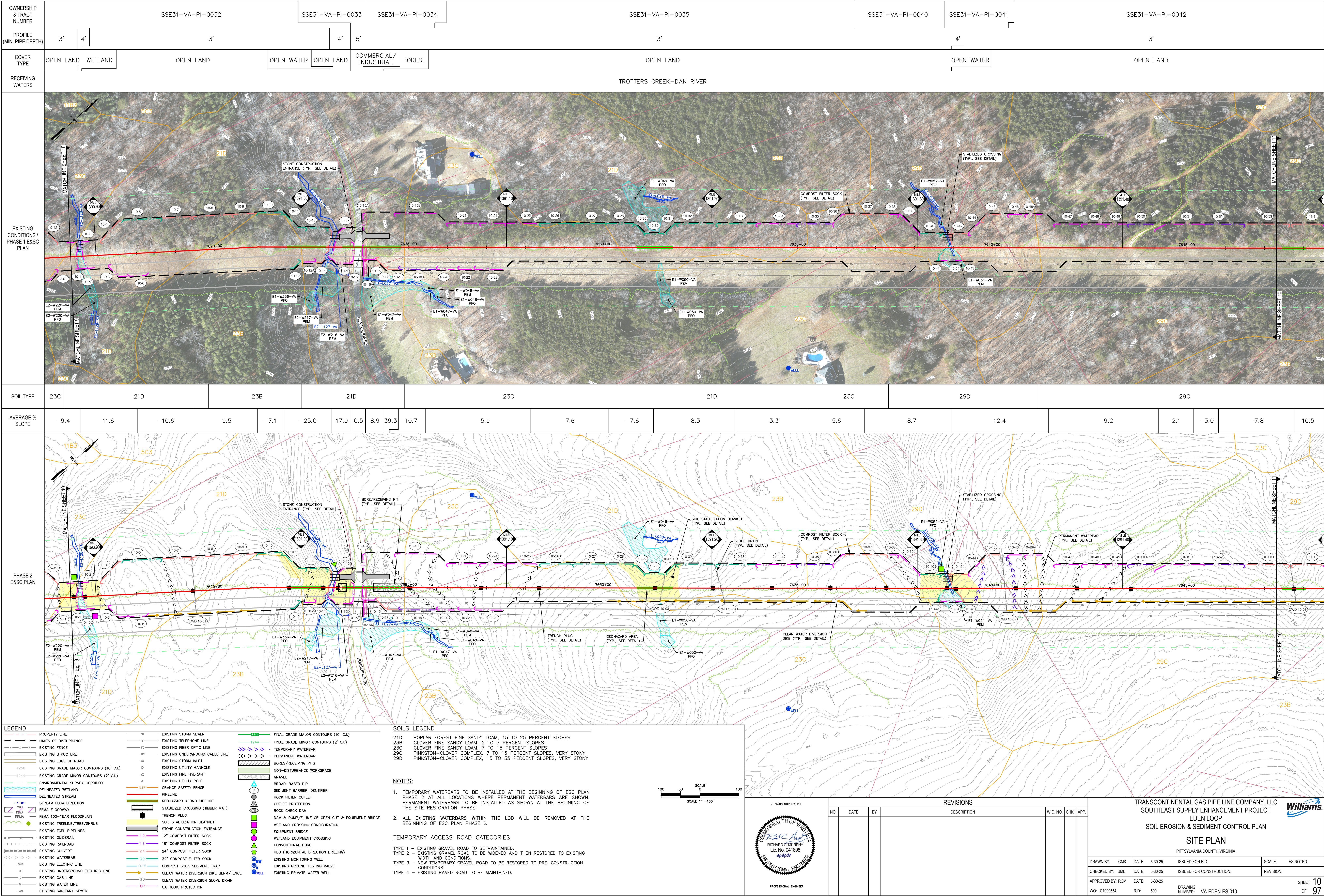


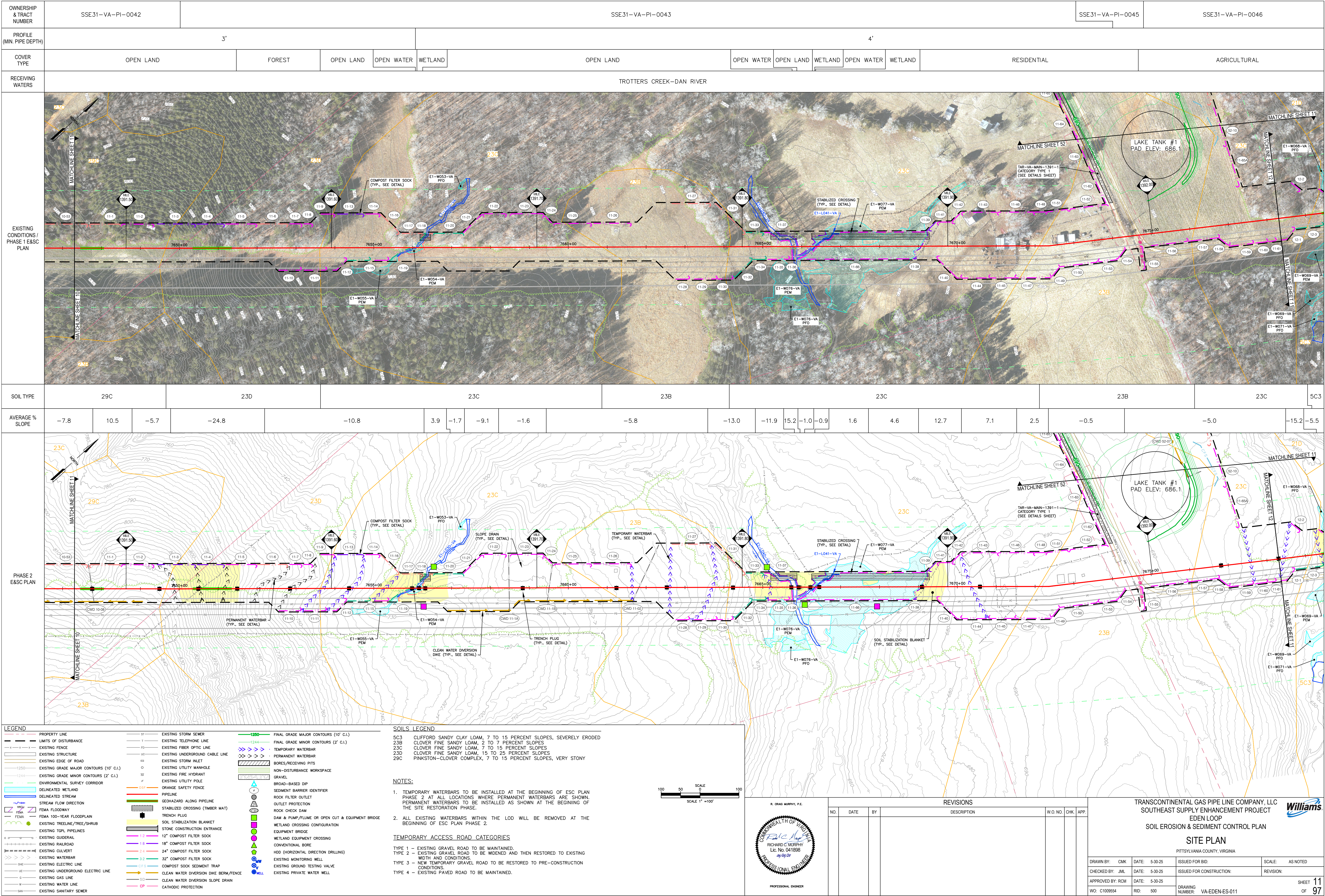












OWNERSHIP & TRACT NUMBER

PROFILE (MIN. PIPE DEPTH)

COVER TYPE

RECEIVING WATERS

SOIL TYPE

AVERAGE % SLOPE

PHASE 2 E&SC PLAN

LEGEND

SOILS LEGEND

NOTES

TEMPORARY ACCESS ROAD CATEGORIES

REVISIONS

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
SOUTHEAST SUPPLY ENHANCEMENT PROJECT
EDEN LOOP
SOIL EROSION & SEDIMENT CONTROL PLAN

SITE PLAN

PITTSYLVANIA COUNTY, VIRGINIA

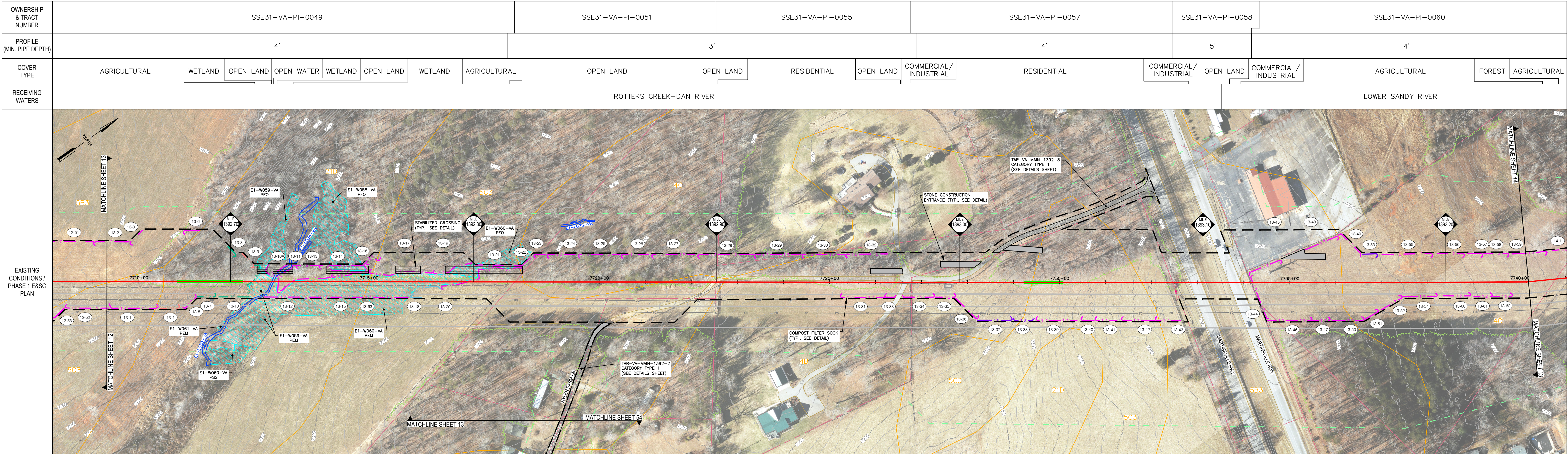
DRAWN BY: CMK
CHECKED BY: JML
APPROVED BY: RCM
W.O. NO. C1009554
R.D. 500

DATE: 5-30-25
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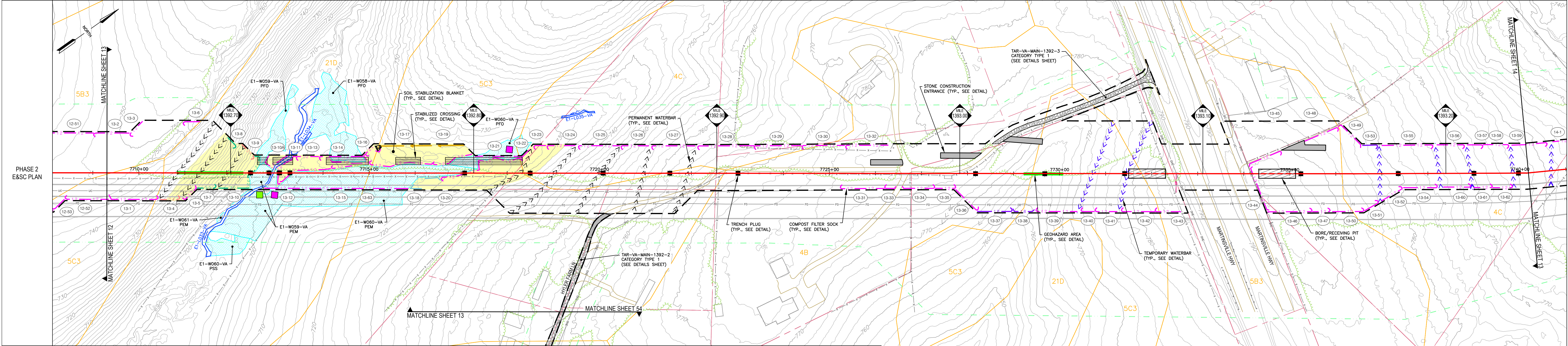
ISSUED FOR BID:
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DRAWING NUMBER: VA-EDEN-ES-012

SCALE: AS NOTED
REVISION:

SHEET 12 OF 92



SOIL TYPE	5B3	5C3	21D			5C3		4C		5C3	4B				5C3	5B3				4C						
AVERAGE % SLOPE	1.7	-6.4	-22.7	-3.8	4.8		10.7		6.5		2.8		0.4	-3.1	-7.5	8.4		1.4	-1.5	4.9	2.1	-2.7	-6.6	-7.1	-5.9	



LEGEND

PROPERTY LINE
LIMITS OF DISTURBANCE
EXISTING FENCE
EXISTING STRUCTURE
EXISTING EDGE OF ROAD
EXISTING GRADE MAJOR CONTOURS (10' C.I.)
EXISTING GRADE MINOR CONTOURS (2' C.I.)
ENVIRONMENTAL SURVEY CORRIDOR
DELINEATED WETLAND
DELINEATED STREAM
STREAM FLOW DIRECTION
FEMA FLOODWAY
FEMA 100-YEAR FLOODPLAIN
EXISTING TREELINE/TREE/SHRUB
EXISTING TGPL PIPELINES
EXISTING GUIDERAIL
EXISTING RAILROAD
EXISTING CULVERT
EXISTING WATERBAR
EXISTING ELECTRIC LINE
EXISTING UNDERGROUND ELECTRIC LINE
EXISTING GAS LINE
EXISTING WATER LINE
EXISTING SANITARY SEWER

EXISTING STORM SEWER
EXISTING TELEPHONE LINE
EXISTING FIBER OPTIC LINE
EXISTING UNDERGROUND CABLE LINE
EXISTING STORM INLET
EXISTING UTILITY MANHOLE
EXISTING FIRE HYDRANT
EXISTING UTILITY POLE
ORANGE SAFETY FENCE
PIPELINE
GEOHAZARD ALONG PIPELINE
STABILIZED CROSSING (TIMBER MAT)
TRENCH PLUG
SOIL STABILIZATION BLANKET
STONE CONSTRUCTION ENTRANCE
12" COMPOST FILTER SOCK
18" COMPOST FILTER SOCK
24" COMPOST FILTER SOCK
COMPOST SOOK SEDIMENT TRAP
CLEAN WATER DIVERSION DIKE BERM/FENCE
CATHODIC PROTECTION

FINAL GRADE MAJOR CONTOURS (10' C.I.)
FINAL GRADE MINOR CONTOURS (2' C.I.)
TEMPORARY WATERBAR
PERMANENT WATERBAR
BORES/RECEIVING PITS
NON-DISTURBANCE WORKSPACE
GRAVEL
BROAD-BASED DIP
SEDIMENT BARRIER IDENTIFIER
ROCK FILTER OUTLET
OUTLET PROTECTION
ROCK CHECK DAM
DAM & PUMP/FLUME OR OPEN CUT & EQUIPMENT BRIDGE
WETLAND CROSSING CONFIGURATION
EQUIPMENT BRIDGE
WETLAND EQUIPMENT CROSSING
CONVENTIONAL BORE
HDD (HORIZONTAL DIRECTION DRILLING)
EXISTING MONITORING WELL
EXISTING GROUND TESTING VALVE
EXISTING PRIVATE WATER WELL

SOILS LEGEND

4B CLIFFORD SANDY LOAM, 2 TO 7 PERCENT SLOPES
4C CLIFFORD SANDY LOAM, 7 TO 15 PERCENT SLOPES
5B3 CLIFFORD SANDY CLAY LOAM, 2 TO 7 PERCENT SLOPES, SEVERELY ERODED
5C3 CLIFFORD SANDY CLAY LOAM, 7 TO 15 PERCENT SLOPES, SEVERELY ERODED
21D POPLAR FOREST FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES

NOTES:

1. TEMPORARY WATERBARS TO BE INSTALLED AT THE BEGINNING OF ESC PLAN PHASE 2 AT ALL LOCATIONS WHERE PERMANENT WATERBARS ARE SHOWN. PERMANENT WATERBARS TO BE INSTALLED AS SHOWN AT THE BEGINNING OF THE SITE RESTORATION PHASE.

2. ALL EXISTING WATERBARS WITHIN THE LOD WILL BE REMOVED AT THE BEGINNING OF ESC PLAN PHASE 2.

TEMPORARY ACCESS ROAD CATEGORIES

TYPE 1 - EXISTING GRAVEL ROAD TO BE MAINTAINED.
TYPE 2 - EXISTING GRAVEL ROAD TO BE WIDENED AND THEN RESTORED TO EXISTING WIDTH AND CONDITIONS.
TYPE 3 - NEW TEMPORARY GRAVEL ROAD TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.
TYPE 4 - EXISTING PAVED ROAD TO BE MAINTAINED.

REVISIONS

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

W.O. NO. CHK. APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
SOUTHEAST SUPPLY ENHANCEMENT PROJECT
EDEN LOOP
SOIL EROSION & SEDIMENT CONTROL PLAN
SITE PLAN
PITTSYLVANIA COUNTY, VIRGINIA

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