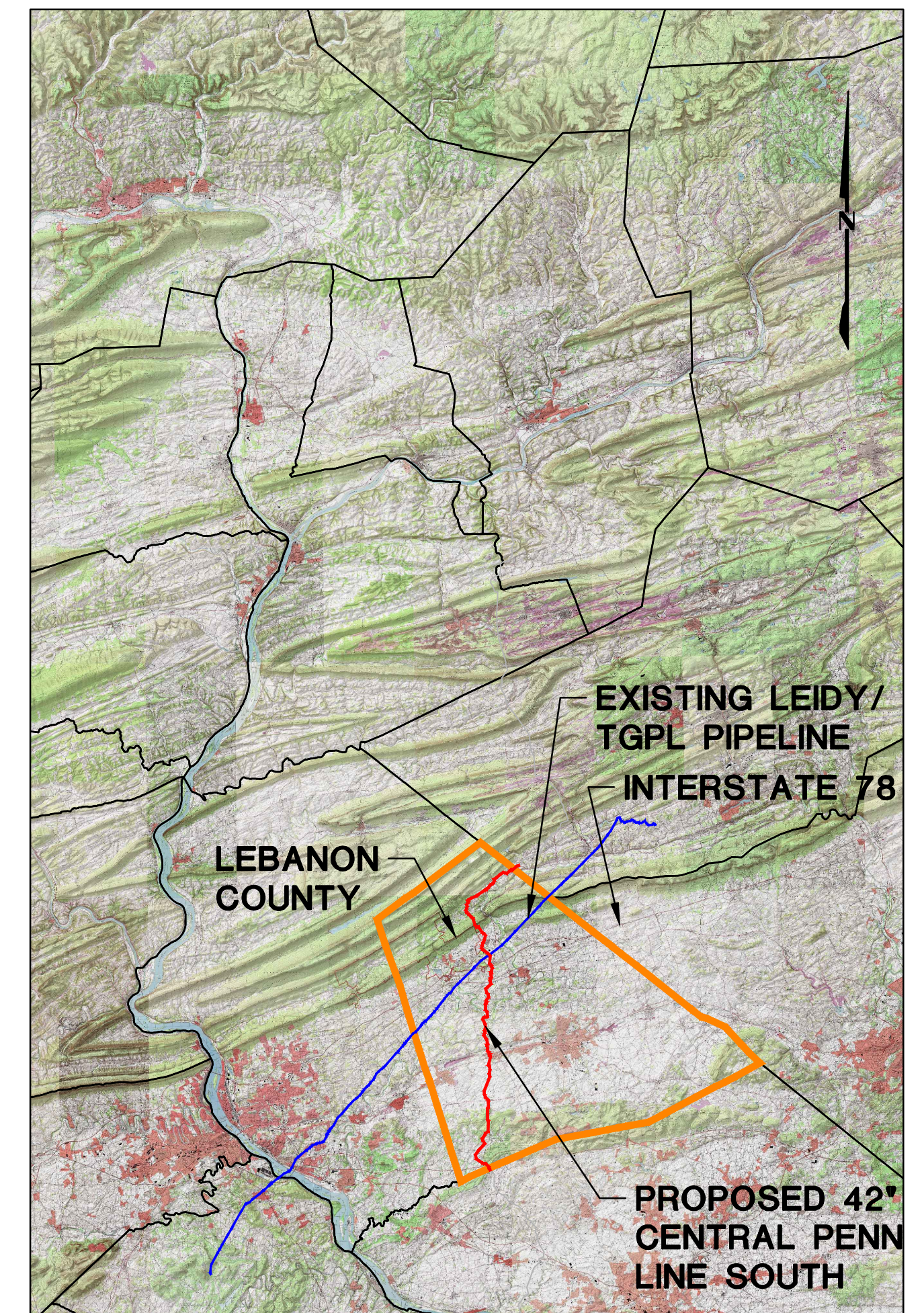


TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC POST CONSTRUCTION STORMWATER MANAGEMENT PLANS FOR PERMANENT ACCESS ROADS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH

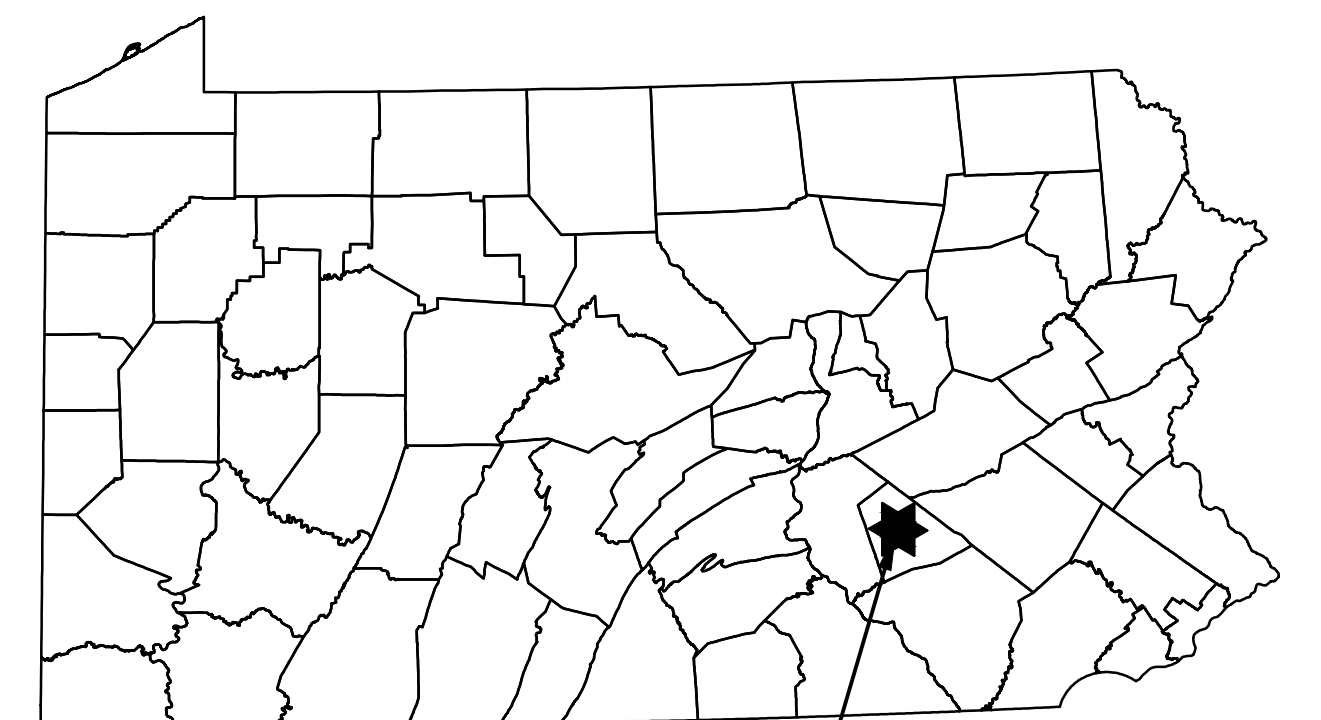
SOUTH ANNVILLE AND UNION TOWNSHIPS
LEBANON COUNTY, PENNSYLVANIA



USGS PINE GROVE, TOWER CITY, LEBANON, INDIANTOWN GAP, PALMYRA, AND ELIZABETHTOWN QUADRANGLES

VICINITY MAP

SCALE: 1"=50,000'



PROJECT
LOCATION

ROAD NAME & TYPE	DRAWING NO.	SHEET NO.	DRAWING NAME
GENERAL OVERALL	24-1600-70-28-A/LL113_9-AR-LE	1 of 3	COVER SHEET
		2 of 3	LOCATION MAP & ACCESS ROAD INDEX
		3 of 3	PCSM NOTES
AR-LE-037.2 Proposed Permanent	24-1600-70-28-A/LL113_9-AR-LE-037.2	1 of 1	ACCESS ROADS - POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
AR-LE-050.1.1 Proposed Permanent	24-1600-70-28-A/LL113_9-AR-LE-050.1.1	1 of 1	ACCESS ROADS - POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

ABBREVIATIONS			
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	INV	INVERT
		L	LENGTH, LEFT
		LOD	LIMIT OF DISTURBANCE
ABACT	ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES	MF	MIGRATORY FISHES
		MLV	MAIN LINE VALVE
APPROX.	APPROXIMATE	N/A	NOT APPLICABLE
AR	ACCESS ROAD	PADEP	PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AC	ACRE/ACRES		ENVIRONMENTAL PROTECTION
BMP	BEST MANAGEMENT PRACTICES	PR	PROPOSED
CWF	COLDWATER FISHES	R	RIGHT
D	DEPTH	RCP	REINFORCED CONCRETE PIPE
D.I.P.	DUCTILE IRON PIPE	STA	STATION
E&S	EROSION AND SEDIMENT CONTROL	TGPL	TRANSCONTINENTAL GAS PIPE LINE
ESCGP-2	EROSION AND SEDIMENT CONTROL	TSF	TROUT STOCKED FISHERY
	GENERAL PERMIT - 2	TYP.	TYPICAL
EV	EXCEPTIONAL VALUE	UNK	UNKNOWN
EX	EXISTING	UNT	UNNAMED TRIBUTARY
GTD	GRADE TO DRAIN	V	VERTICAL
H	HORIZONTAL	W	WIDTH
HQ	HIGH QUALITY	WWF	WARMWATER FISHES

SOIL TYPES AND LIMITATIONS		CUTEBANKS CAVE	CORROSIVE TO CONCRETE/STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE	HYDRIC/HYDRIC INCLUSIONS	LOW STRENGTH/LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
MAP UNIT NAME	MAP UNIT DESIGNATION																
CkB	CLARKSBURG SILT LOAM, 3 TO 8 PERCENT SLOPES	X	C/S		X		X	X	X	X	X	X	X	X	X	X	X
HaB	HAGERSTOWN SILT LOAM, 3 TO 8 PERCENT SLOPES	X	S	X			X	X	X	X	X	X	X	X	X	X	X
HbC	HAGERSTOWN SILTY CLAY LOAM, 8 TO 15 PERCENT SLOPES	X	S	X			X	X	X	X	X	X	X	X	X	X	X
Ls	LINDSIDE SILT LOAM, 0 TO 3 PERCENT SLOPES	X	S		X		X	X	X	X	X	X	X	X	X	X	X
MagB	MARKES SILT LOAM, 3 TO 8 PERCENT SLOPES	X	C/S	X			X	X	X	X	X	X	X	X	X	X	X
ThA	THORNDALE SILT LOAM, 0 TO 3 PERCENT SLOPES	X	C/S				X	X	X	X	X	X	X	X	X	X	X
WeB	WEIKERT CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES	X	C/S	X			X	X	X	X	X	X	X	X	X	X	X

LEGEND
X APPLIES TO SOIL
C/S CORROSIVE TO STEEL
C CORROSIVE TO CONCRETE
C/S CORROSIVE TO STEEL AND CONCRETE



PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH.

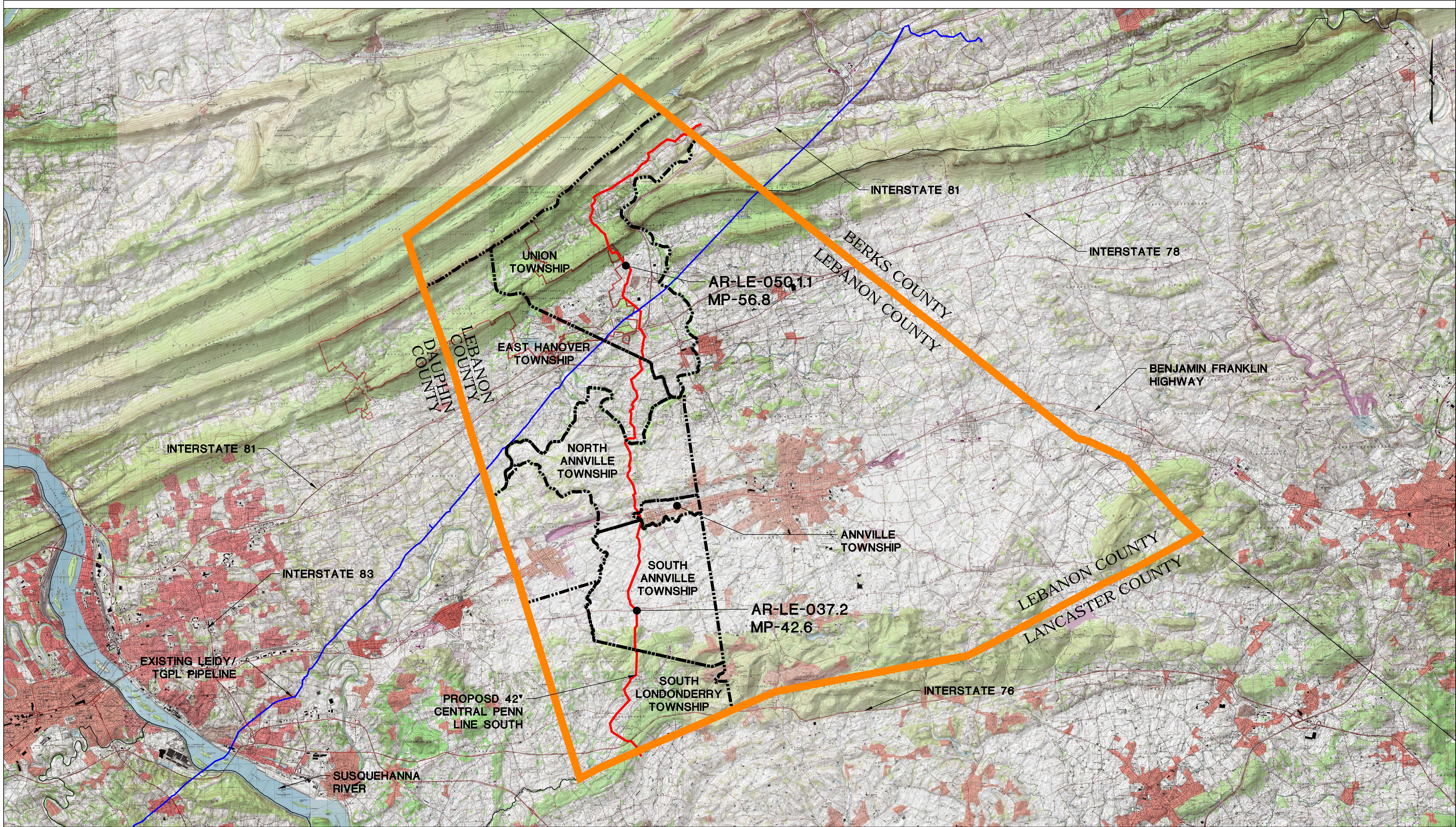
ENGINEER OF RECORD
BL COMPANIES
4242 CARLISLE PIKE, SUITE 260
CAMP HILL, PA 17011
P:717-651-9850
F:717-651-9858



REVISIONS			
NO.	DATE	BY	DESCRIPTION
0	OCT. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1
1	APRIL 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC			
ATLANTIC SUNRISE PROJECT- PROPOSED 42" CENTRAL PENN LINE SOUTH			
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN			
ACCESS ROADS			
LEBANON COUNTY, PENNSYLVANIA			
COVER SHEET			
DRAWN BY: OLC/MS	DATE: 4/2015	ISSUED FOR BID:	SCALE:
CHECKED BY: DAK	DATE: 06/12/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: SMK	DATE: 07/07/15	DRAWING NUMBER:	SHEET 1 OF 3
WO: W01161503	24-1600-70-28-A/LL113_9-AR-LE		

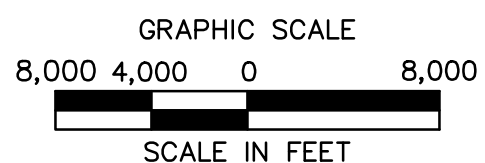




USGS PINE GROVE, TOWER CITY, LEBANON, INDIANTOWN GAP, PALMYRA, AND ELIZABETHTOWN QUADRANGLES

LEGEND

- TOWNSHIP LINE
- COUNTY LINE
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING LEIDY/ TGPL PIPELINE



PENNSYLVANIA ACT 287 (1974) AS AMENDED BY PENNSYLVANIA ACT 199 (2004) REQUIRES NO LESS THAN THREE (3) WORKING DAYS AND NO MORE THAN (10) WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH.



SUZANNE KING REG. NO. PE 082757

REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.D.	CHK.
0	OCT. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1		DAK SMK
1	APRIL 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #2		DAK SMK

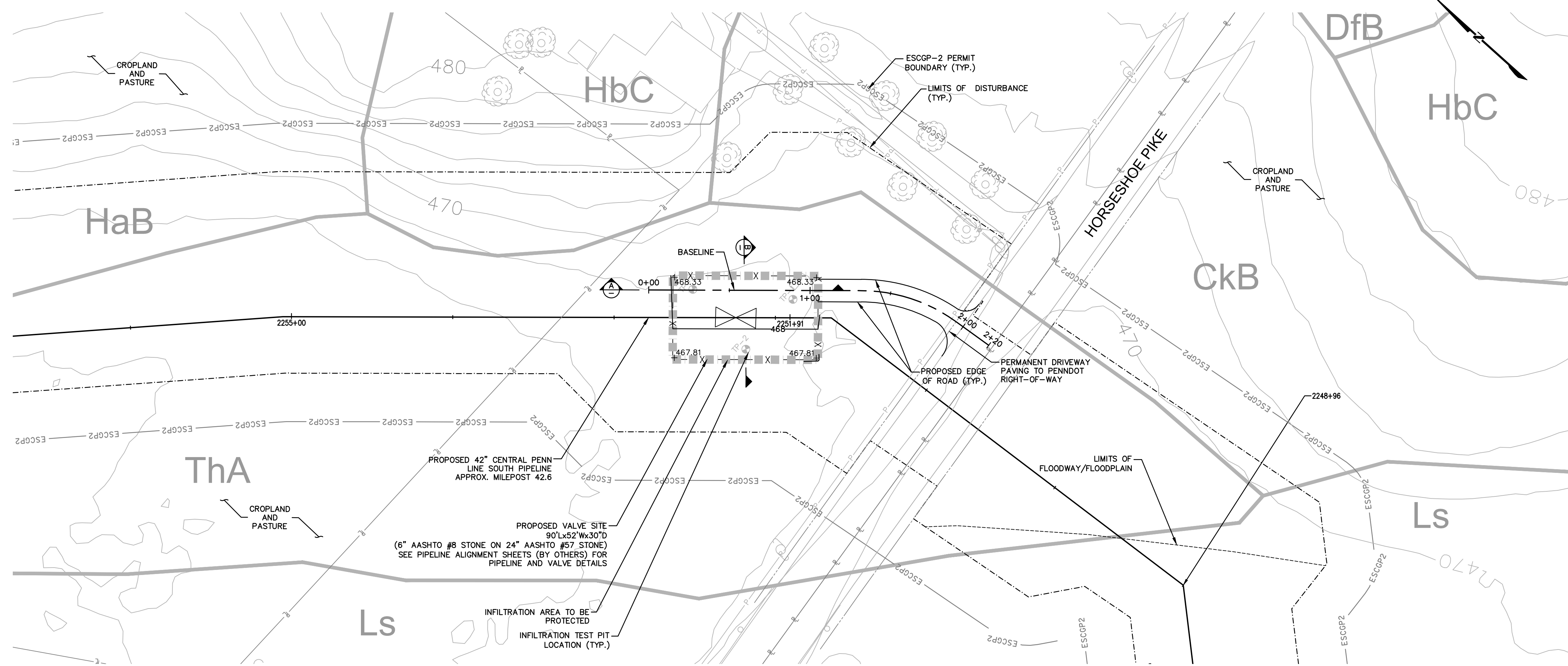
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
 ATLANTIC SUNRISE PROJECT- PROPOSED 42" CENTRAL PENN LINE SOUTH
 POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
 ACCESS ROADS
 LEBANON COUNTY, PENNSYLVANIA
 LOCATION MAP & ACCESS ROAD INDEX

DRAWN BY: OLC/MS	DATE: 4/2015	ISSUED FOR BID:	SCALE:
CHECKED BY: DAK	DATE: 06/12/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: SMK	DATE: 07/07/15	DRAWING NUMBER:	SHEET 2
W: W01161503	24-1600-70-28-A/LL113_9-AR-LE	OF 3	

Drawn By & Date/Time: nonocaduser Apr 10, 2017 - 11:35am
 Drawing Location & Name: G:\0851\14\1404909.DWG\020-CPLS\VAR_CV14C4909(00)_LEB.dwg

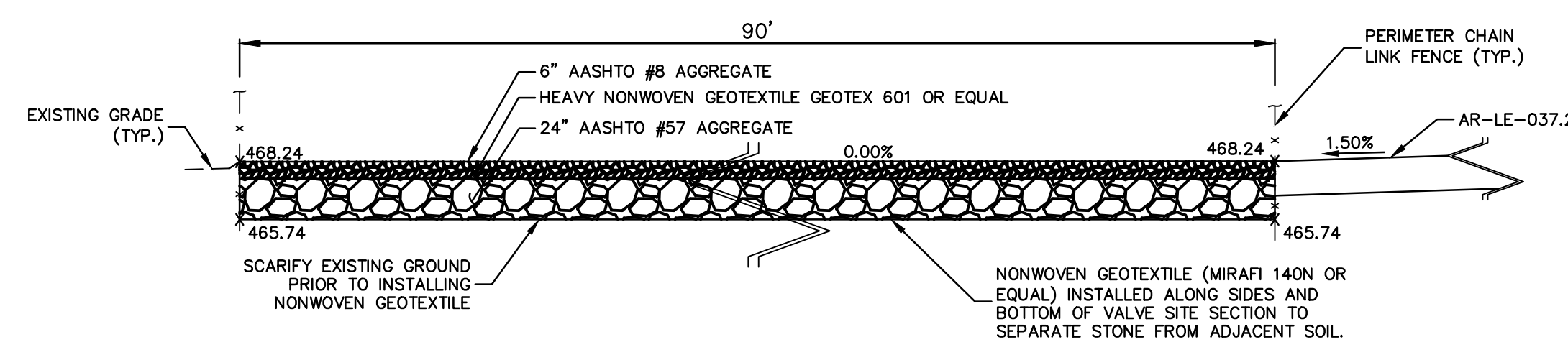
SITE RESTORATION

- RESTORATION OF THE ACCESS ROAD ROW WILL INCLUDE, BUT IS NOT LIMITED TO, RESTORATION OF EXISTING CONTOURS, RESTORATION OF EXISTING ROADS, DECOMPACTION, AND SEEDING.
- RESTORATION STEPS ARE DESCRIBED IN THE SEQUENCE OF CONSTRUCTION PROVIDED ON THE SOIL EROSION CONTROL PLAN AND IN THE ROAD-SPECIFIC APPENDIX OF THE COUNTY NARRATIVE.
- ONCE THE TEMPORARY ACCESS ROAD IS NO LONGER NECESSARY, THE GRAVEL AND GEOTEXTILE FABRIC FROM THE TEMPORARILY IMPROVED SECTIONS WILL BE REMOVED AND DISPOSED OF AT A SUITABLE DISPOSAL OR RECYCLING SITE IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. STONE ADDED TO EXISTING GRAVEL ROADS WILL REMAIN IN PLACE.
- DISTURBED AREAS OUTSIDE EXISTING ROAD AREAS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS. THE SUBSOIL WILL BE DE-COMPACTED AND TOPSOIL WILL BE SPREAD OVER THE DISTURBED AREA. DISTURBED AREAS WILL BE SEEDED AND STABILIZED WITH MULCH OR EROSION CONTROL BLANKETS AS APPLICABLE.
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 - AREAS WITHIN 50 FEET OF A STREAM OR WETLAND (DS75 NORTH AMERICAN GREEN OR APPROVED EQUAL).
 - AREAS WITHIN 100 FEET OF HQ OR EV STREAMS AND WETLANDS (DS75 NORTH AMERICAN GREEN OR APPROVED EQUAL).
 - SLOPES EQUAL TO 3:1 OR GREATER (SC150 NORTH AMERICAN GREEN OR APPROVED EQUAL).
- E&S BMPs, SUCH AS COMPOST FILTER SOCK AND FILTER SOCK DIVERSIONS, SHALL REMAIN IN PLACE UNTIL THE SITE WORK IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN A UNIFORM 70% PERENNIAL VEGETATIVE COVER IS ESTABLISHED OVER NON-EXISTING DISTURBED AREAS. IN AGRICULTURAL USE AREAS, AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION IF THE AREA HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER. THE AREA HAS A PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS, OR IF AN AREA EXHIBITS ANY GROUND COVER CONDITIONS NORMALLY ASSOCIATED WITH ACTIVE AGRICULTURAL PRACTICES, INCLUDING BUT NOT LIMITED TO BARE EARTH ON CULTIVATED LAND, TEMPORARY VEGETATIVE COVER ON CULTIVATED LAND, OR PASTURE NOT MEETING A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER.
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- PROPOSED IMPROVEMENTS ON THE PERMANENT ACCESS ROADS TO THE MLV SITES ARE PERMANENT AND WILL BE MAINTAINED BY TRANSCO AS DESCRIBED IN THE LONG TERM OPERATION AND MAINTENANCE SCHEDULE SHOWN ON SHEET 3 OF 3 AT THE BEGINNING OF THIS PCSM PLAN.

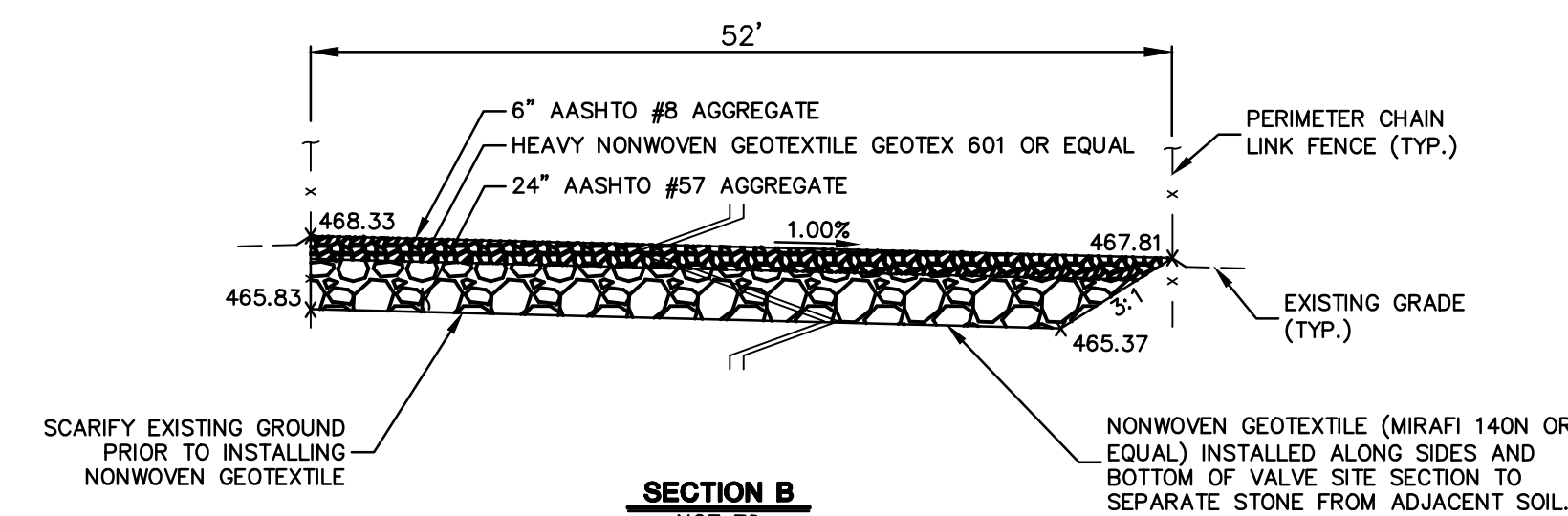


ESCGP-2 PERMIT TABLE

LIMIT OF DISTURBANCE:	
ACCESS ROAD	0.00 AC.
VALVE WITHIN PIPELINE ROW	0.96 AC.
TOTAL	0.96 AC.
LOD AREA WITHIN FLOODWAY/FLOODPLAIN	0.00 AC.
AREA OF RIPARIAN FOREST BUFFER	0.00 AC.
AREA OF MINIMUM DISTURBANCE/REDUCED GRADING	0.00 AC.
STORMWATER MANAGEMENT AREA	0.96 AC.
AREA CONTROLLED BY BMPs	0.23 AC.



SECTION A
NOT TO SCALE



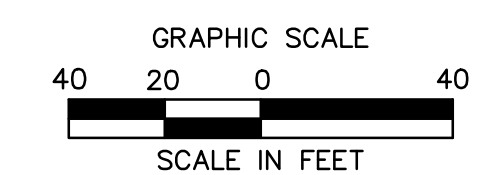
SECTION B
NOT TO SCALE

SITE SOIL TYPES

SEE COVER SHEET FOR SOIL TYPES AND LIMITATIONS

RECEIVING WATERS

GINGRICH RUN, TSF, MF
CHAPTER 303(D) IMPAIRMENT: AGRICULTURE (SUSPENDED SOLIDS); SOURCE UNKNOWN (PATHOGENS); RUNOFF/STORM SEWERS (ORGANIC ENRICHMENT/LOW D.O.)



Drawn By & Date/Time: Sking Apr 26, 2017 - 5:24pm
Drawing Location & Name: G:\0851A\14C\14C4909\DWG\020-CPLS\VAR_PCSM\4C4909(205)-PAR-LE-037-2.dwg

NOTE:
SEE PCSM NOTES SHEET 3 OF 3 FOR EXISTING AND PROPOSED FEATURES LEGEND



REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.D. NO.	CHK. APP.
0	OCT. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1		DAK SMK
1	APRIL 2017	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #2		DAK SMK

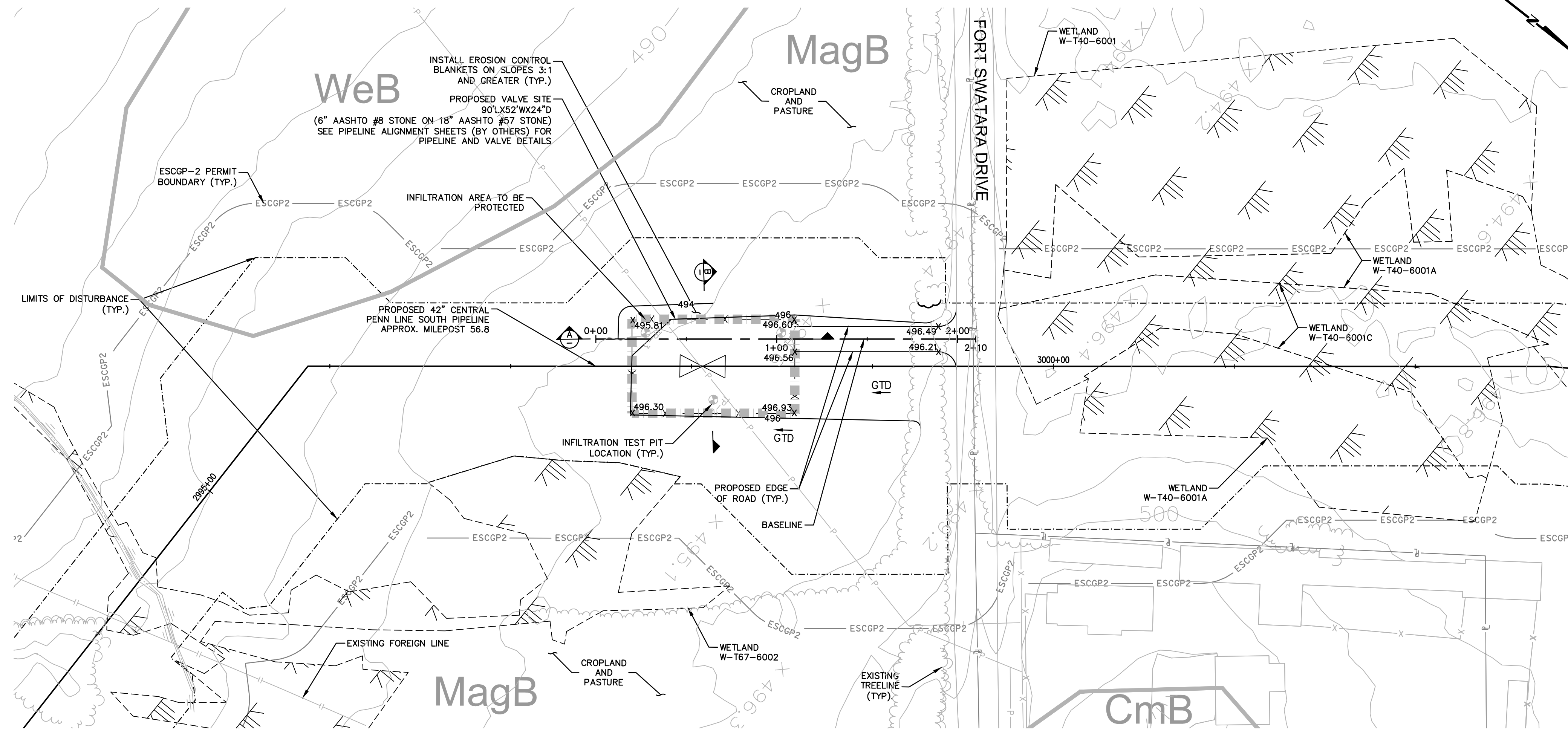
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
ATLANTIC SUNRISE PROJECT - PROPOSED 42" CENTRAL PENN LINE SOUTH
ACCESS ROADS - POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
PROPOSED PERMANENT ACCESS ROAD AR-LE-037.2
SOUTH ANNVILLE TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA

Williams
GAS PIPELINE

DRAWN BY: OLC/MS	DATE: 4/2015	ISSUED FOR BID:	SCALE: 1"=40'
CHECKED BY: ---DAK	DATE: 06/12/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: ---SMK	DATE: 07/07/15	DRAWING NUMBER: 24-1600-70-28-A/LL113_9-AR-LE-037.2	SHEET 1 OF 1
W.D. NO: W01161503			

SITE RESTORATION

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ESCGP-2 PERMIT TABLE

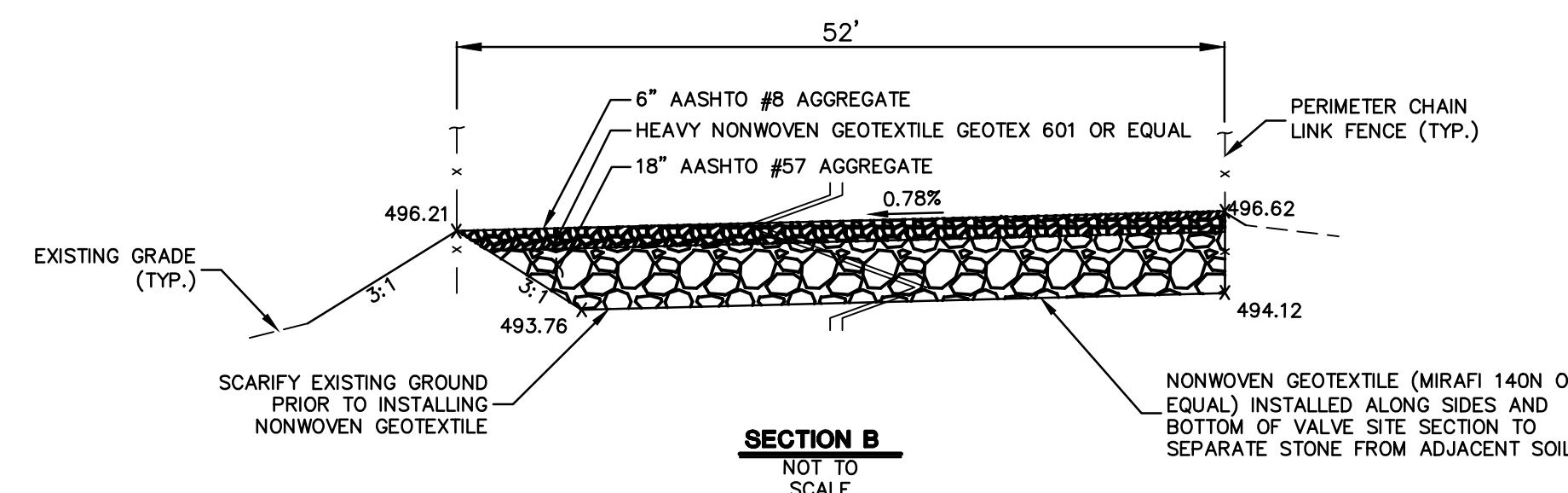
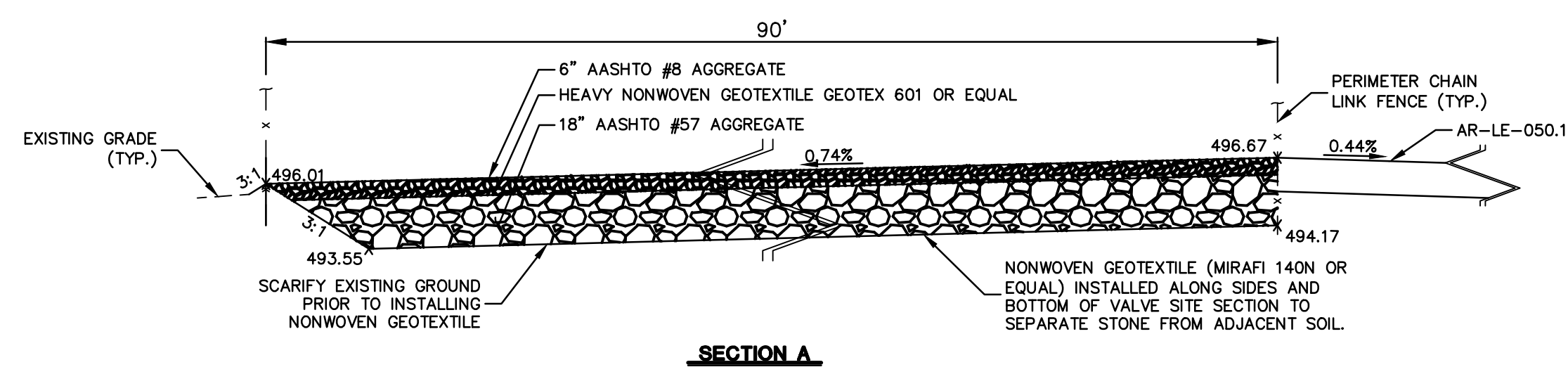
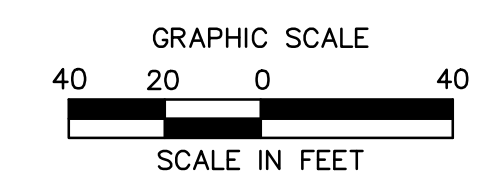
LIMIT OF DISTURBANCE:	
ACCESS ROAD	0.00 AC.
VALVE WITHIN PIPELINE ROW	<u>0.79 AC.</u>
TOTAL	<u>0.79 AC.</u>
LOD AREA WITHIN FLOODWAY/FLOODPLAIN	0.00 AC.
AREA OF RIPARIAN FOREST BUFFER	0.00 AC.
AREA OF MINIMUM DISTURBANCE/REDUCED GRADING	0.00 AC.
STORMWATER MANAGEMENT AREA	<u>0.79 AC.</u>
AREA CONTROLLED BY BMPs	0.19 AC.

SITE SOIL TYPES

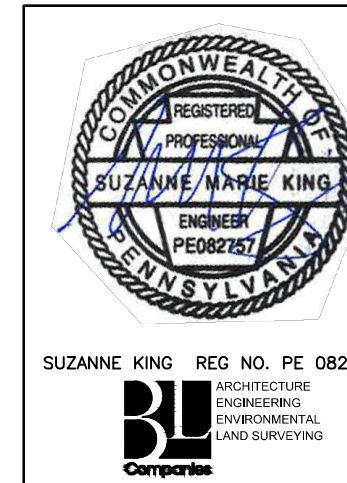
SEE COVER SHEET FOR SOIL TYPES AND LIMITATIONS

RECEIVING WATERS

FORGE CREEK, WWF, MF
CHAPTER 303(D) IMPAIRMENT: AGRICULTURE
(SILTATION AND FLOW ALTERATIONS)



NOTE:
SEE PCSM NOTES SHEET 3 OF 3 FOR
EXISTING AND PROPOSED FEATURES
LEGEND



REVISIONS					
NO.	DATE	BY	DESCRIPTION	W.D. NO.	CHK. APP.
0	07/17/2015	BL	ISSUED FOR PADEP SUBMITTAL	1161503	DAK SMK
1	12/02/2015	BL	ISSUED FOR PADEP RESUBMITTAL	1161503	DAK SMK
2	OCT. 2016	BL	PADEP TECHNICAL DEFICIENCY RESPONSE #1	1161503	DAK SMK
3	APRIL 2017	BL	MODIFICATION #2 ISSUED FOR PADEP SUBMITTAL	1161503	DAK SMK

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
ATLANTIC SUNRISE PROJECT- PROPOSED 42\"/>

ACCESS ROADS - POST CONSTRUCTION STORMWATER MANAGEMENT PLAN
PROPOSED PERMANENT ACCESS ROAD AR-LE-050.1.1
UNION TOWNSHIP, LEBANON COUNTY, PENNSYLVANIA

Williams GAS PIPELINE

DRAWN BY: OLC/MS DATE: 4/2015 ISSUED FOR BID: SCALE: 1\"/>

CHECKED BY: DAK DATE: 06/12/15 ISSUED FOR CONSTRUCTION: REVISION: J

APPROVED BY: SMK DATE: 07/07/15 DRAWING NUMBER: 24-1600-70-28-A/ SHEET 1
W.D. NO: W01161503 L1113_9-AR-LE-050.1.1 OF 1