



Transcontinental Gas Pipe Line Company LLC
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WATER OBSTRUCTION AND
ENCROACHMENT PERMIT IMPACT MAPS

M.P. 50.58 TO M-0166 M.P. 0.01
SUSQUEHANNA COUNTY, PENNSYLVANIA

ISSUED DATE: NOVEMBER 18, 2016

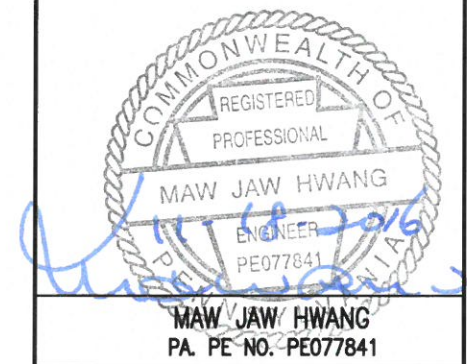
24-1601-70-09-A-02_Susquehanna-PKG
Issued for PADEP Submittal #2
Rev. 3
11-18-2016
Supercedes 24-1601-70-09-A_Susquehanna-PKG



Transcontinental Gas Pipe Line Company LLC
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WATER OBSTRUCTION AND
ENCROACHMENT PERMIT IMPACT MAPS

M.P. 50.58 TO M-0166 M.P. 0.01
SUSQUEHANNA COUNTY, PENNSYLVANIA

WOOD GROUP MUSTANG INC.
17325 PARK ROW
HOUSTON TX, 77084
(832) 809-8000



ISSUED FOR PADEP SUBMITTAL #2
ISSUED DATE: NOVEMBER 18, 2016


DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1601-70-20-A/50.58-02	INDEX SHEET	1 OF 3	3
24-1601-70-20-A/50.58-02	NOTES SHEET	2 OF 3	1
24-1601-70-14-A/50.58-02	PROJECT LOCATION KEY MAP	3 OF 3	3
24-1601-70-14-A/AR-SU-041-01	WW-T65-21001	1 OF 1	0
24-1601-70-09-A/51.35-02	WW-T30-21001	1 OF 1	2
24-1601-70-20-A/51.36-02	W-T30-21001	1 OF 1	2
24-1601-70-20-A/51.48-02	W-T30-21002	1 OF 1	1
24-1601-70-09-A/51.69-02	WW-T12-21004A & WW-T12-21004	1 OF 1	2
24-1601-70-20-A/52.25-02	W-T12-21001A	1 OF 1	2
24-1601-70-09-A/52.37-02	WW-T12-21001	1 OF 1	2
24-1601-70-20-A/52.94-01	W-T70-21001A-1 / W-T70-21001A-2	1 OF 1	0
24-1601-70-20-A/53.30-01	W-T51-21004	1 OF 1	0
24-1601-70-09-A/53.39-01	WW-T50-21001	1 OF 1	0
24-1601-70-20-A/53.73-01	W-T64-21001-1	1 OF 1	0
24-1601-70-09-A/54.11-01	WW-T50-21002 & WW-T50-21003	1 OF 1	0
24-1601-70-20-A/54.13-01	W-T50-21002 & W-T50-21003	1 OF 1	0
24-1601-70-20-A/54.35-02	W-T12-21007A	1 OF 1	1
24-1601-70-09-A/54.36-01	WW-T12-21006	1 OF 1	1
24-1601-70-09-A/55.10-02	WW-T12-21007 & WW-T12-21007A	1 OF 1	2
24-1601-70-20-A/55.10-02	W-T12-21008-1	1 OF 1	2
24-1601-70-20-A/55.39-02	W-T12-21009A / W-T12-21009A-1 / W-T12-21009A-2	1 OF 1	2
24-1601-70-09-A/M-0061-0.00-02	WW-T12-21008	1 OF 1	2
24-1601-70-20-A/M-0061-0.03-02	W-T12-21009B & W-T12-21009C	1 OF 1	2
24-1601-70-09-A/M-0061-0.09-02	WW-T92-21002 & WW-T12-21009A	1 OF 1	2
24-1601-70-20-A/M-0062-0.17-01	W-T48-21002A & W-T48-21002C	1 OF 1	0
24-1601-70-20-A/56.68-01	W-T48-21001	1 OF 2	0
24-1601-70-20-A/56.68-01	W-T48-21001	2 OF 2	0
24-1601-70-09-A/56.76-01	WW-T48-21001A & WW-T48-21001	1 OF 1	0
24-1601-70-20-A/56.80-01	W-T48-21003	1 OF 1	0
24-1601-70-09-A/57.16-02	WW-T17-21001	1 OF 1	2
24-1601-70-26-A/DEC-02	TYPICAL BRIDGE EQUIPMENT CROSSING DETAIL - BEC	1 OF 1	1

THIS DRAWING SUPERCEDES 24-1601-70-20-A/50.58-01



DRAWING NO.	REFERENCE TITLE

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
INDEX SHEET
M.P. 50.58 TO M.P. 57.30
SUSQUEHANNA COUNTY, PENNSYLVANIA



NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	07/31/15	DTP	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	MBS	05/08/15	ISSUED FOR CONSTRUCTION:	NONE
1	11/20/15	AT	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	JM	05/08/15	ISSUED FOR CONSTRUCTION:	3
2	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	MJH	05/08/15	DRAWING NUMBER: 24-1601-70-20-A/50.58-02	SHEET 1
3	10/06/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	1161481		9/27/2016	OF 3

GENERAL NOTES:

1. WETLAND DELINEATION AND RESOURCE IMPACT CALCULATIONS COMPLETED BY ECOLOGY AND ENVIRONMENT, INC.
2. TRENCH PLUG, SEDIMENT BARRIER SIZE & PLACEMENT COMPLETED BY BL COMPANIES. THE LOD PROVIDED WITHIN THESE DRAWINGS ARE REPRESENTATIVE OF THE FERC CONSTRUCTION ROW AND ESCGP-2 LOD.
3. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED WITH NATIVE MATERIAL TO PRE-CONSTRUCTION ELEVATION.
4. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
5. THERE WILL BE NO NET FILL WITHIN THE WATERBODY.
6. BUOYANCY CONTROL MAY BE REQUIRED ACROSS WATERBODY. CONTRACTOR TO REFER TO CONSTRUCTION ALIGNMENTS FOR SIZE, NUMBER OF WEIGHTS AND/OR CONCRETE COATING THICKNESS.
7. TRENCH PLUGS WILL BE INSTALLED WHEN ENTERING & EXITING ALL WATERBODIES AND WETLANDS.
8. BEST MANAGEMENT PRACTICES (BMPs) FIGURES AND TYPICAL CROSS-SECTION DRAWINGS ARE PROVIDED IN ATTACHMENT 2 OF THE ENVIRONMENTAL CONSTRUCTION PLAN (ECP), AS WELL AS THE DETAILS PROVIDED IN THE BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET. REFER TO TABLE 1 FOR INFORMATION ON THE LOCATION OF THE CROSSING TYPICAL DETAILS WITHIN THE BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET. TIMBER MAT LOCATIONS ARE SHOWN FOR REPRESENTATION PURPOSES ONLY. AT A MINIMUM, ALL TIMBER MATTING AND PERIMETER BMPs WILL BE INSTALLED AS INDICATED WITHIN THE STREAM AND WETLAND CROSSING TYPICAL DETAILS.
9. MILE POSTS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE; THAT OTHER IDENTIFIERS OF WETLANDS AND WATERBODIES ARE FIXED.
10. ALL STREAM CROSSINGS WILL BE PERFORMED DURING LOW FLOW CONDITIONS WITH OVERSIGHT FROM AN ENVIRONMENTAL INSPECTOR. STORM EVENT WEATHER FORECASTS WILL BE MONITORED PRIOR TO AND DURING THE STREAM CROSSING.
11. DURING THE CONSTRUCTION PHASE, IF SHALLOW BEDROCK IS PRESENT, THEN THE PIPE LINE WILL BE INSTALLED THROUGH THE WATERBODY WITH A MINIMUM OF 2 FOOT OF COVER, AS THE REQUIRED 5 FOOT OF MINIMUM COVER WILL NOT BE FEASIBLE.

SURVEY NOTES:

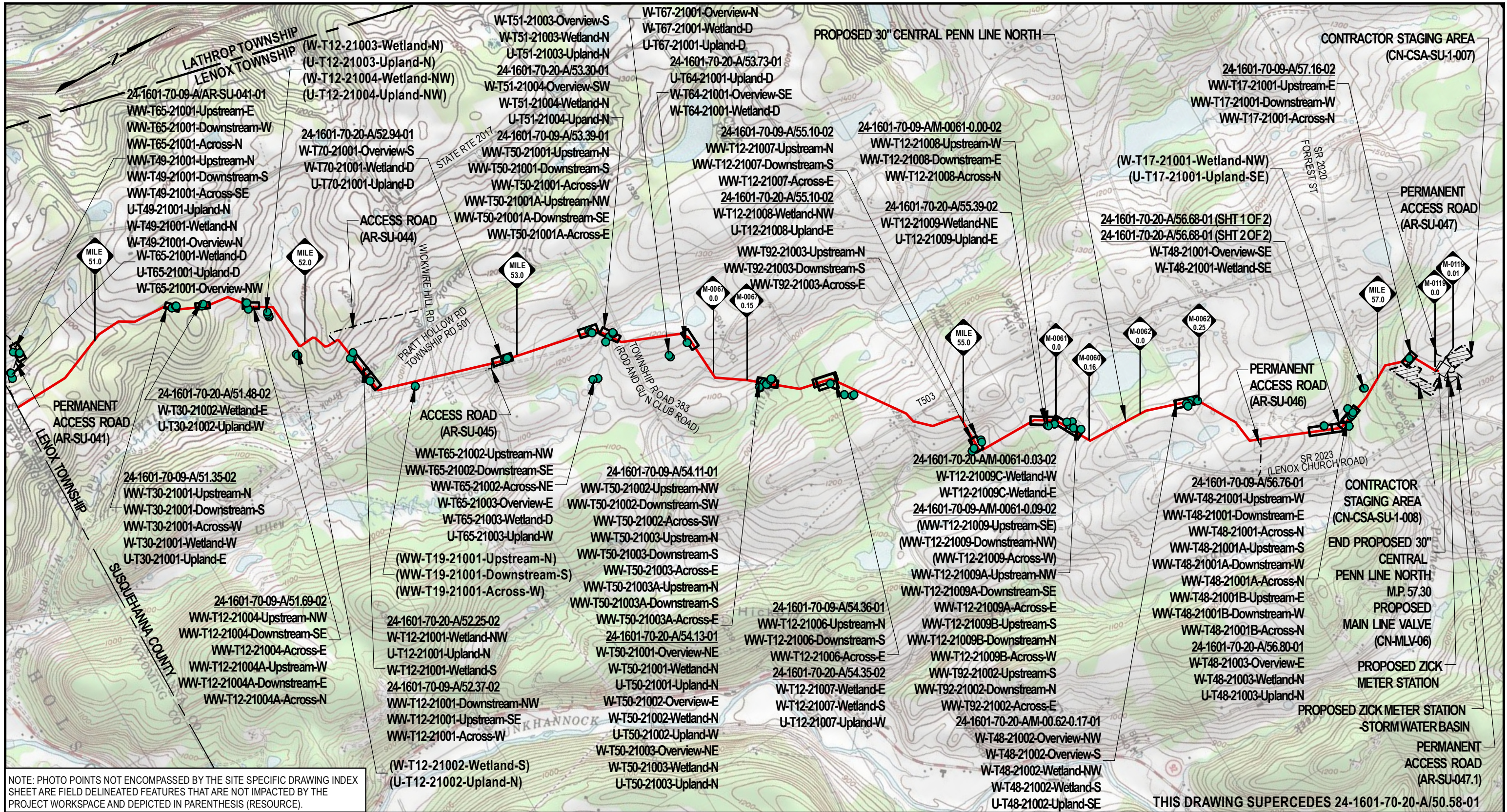
1. BEARINGS SHOWN ARE GRID BEARINGS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM NORTH ZONE, NAD83.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88.
3. GEOGRAPHICAL COORDINATES REPRESENTED IN THE DRAWINGS ARE SHOWN IN WGS 1984, LATITUDE AND LONGITUDE, DECIMAL DEGREES.

Table 1 Stream and Wetland Crossing Typical References			
Typical Detail Name	Detail	Drawing Number	Sheet Number
Stream Crossing Typical			
Bridge Equipment Crossing	BEC	ASR-BMP	1 of 13
Cofferdam Stream Crossing	CD	ASR-BMP	1 of 13
Dam and Pump Stream Crossing	DPX	ASR-BMP	3 of 13
Flume Stream Crossing	FX	ASR-BMP	4 of 13
Wet Intermediate Waterbody Crossing	IWC	ASR-BMP	5 of 13
Wet Minor Waterbody Crossing	MWC	ASR-BMP	6 of 13
Temporary Stream Crossing Multiple Pipes	TSC.2	ASR-BMP	10 of 13
Bored Waterbody Crossing	WBX.1	ASR-BMP	12 of 13
Wetland Crossing Typical			
Timber Matting in Wetlands or at Low Points	MAT.1	ASR-BMP	5 of 13
Wetland Equipment Crossing	WEC	ASR-BMP	12 of 13
"Unsaturated Wetland" Installation Procedure	WCC.1	ASR-BMP	12 of 13
"Saturated Wetland" Installation Procedure	WCC.2	ASR-BMP	12 of 13
"Inundated Wetland" Installation Procedure	WCC.3	ASR-BMP	12 of 13

THIS DRAWING SUPERCEDES 24-1601-70-20-A/50.58-01



DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH NOTES SHEET M.P. 50.58 TO M-0166 M.P. 0.01 SUSQUEHANNA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MBS	DATE: 05/14/15	ISSUED FOR BID:	SCALE: NONE
0	07/31/15	DTP	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: JM	DATE: 05/14/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/06/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 05/14/15	DRAWING NUMBER: 24-1601-70-20-A/50.58-02	SHEET 2
							WO: 1161481	10/25/2016	OF 3	



NOTE: PHOTO POINTS NOT ENCOMPASSED BY THE SITE SPECIFIC DRAWING INDEX SHEET ARE FIELD DELINEATED FEATURES THAT ARE NOT IMPACTED BY THE PROJECT WORKSPACE AND DEPICTED IN PARENTHESIS (RESOURCE).

THIS DRAWING SUPERCEDES 24-1601-70-20-A/50.58-01

LEGEND

- PHOTO POINT
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINE
- X — FENCE LINE
- - - ACCESS ROADS
- - - COUNTY/TOWNSHIP BOUNDARY
- CONTRACTOR STAGING AREA
- CONTRACTOR YARD/PIPE YARD
- SITE SPECIFIC INDEX SHEET

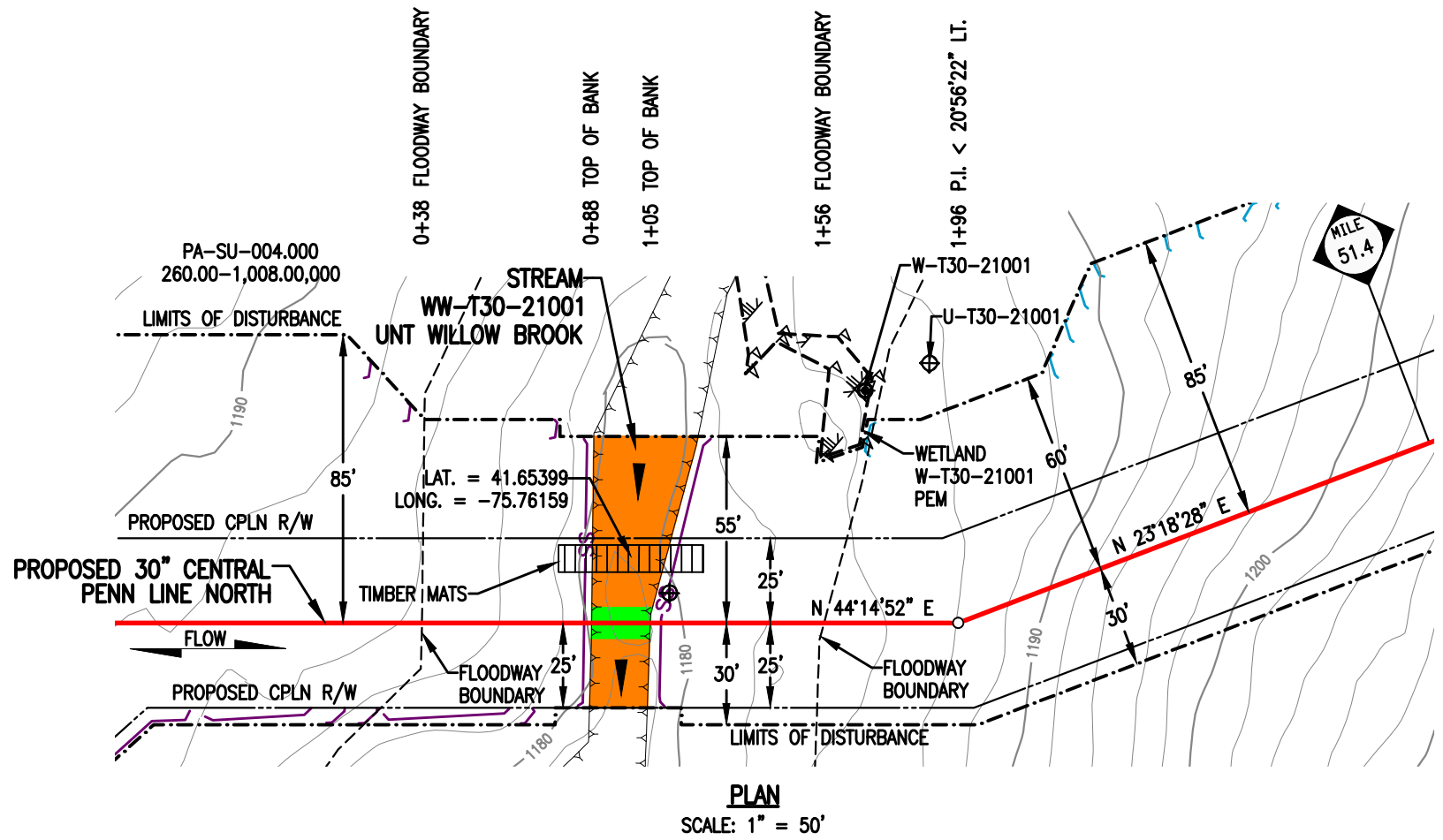
DRG 7.5 MIN. QUAD MAP:
41075-F6 (LENOXVILLE, PA)

0 2,000 4,000 6,000
SCALE IN FEET

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	7/31/15	CRW	ISSUED FOR PADEP 105 PERMIT
1	11/20/15	CRW	ISSUED FOR INTERNAL USE
2	02/03/16	JTN	ISSUED FOR INTERNAL USE
3	10/06/16	JTN	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
TOPOGRAPHICAL PROJECT LOCATION KEY MAP
MP. 50.58 TO M0116 MP. 001
SUSQUEHANNA COUNTY, PENNSYLVANIA

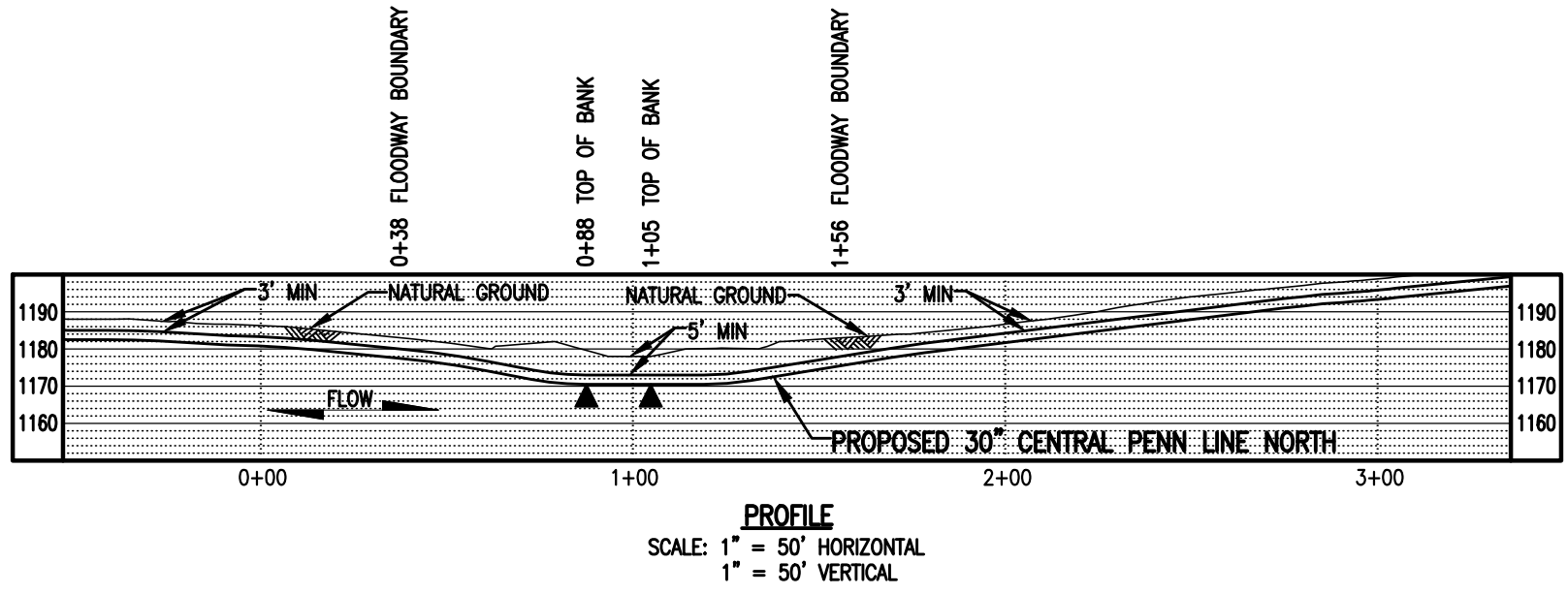
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CHECKED BY: LR	DATE: 5/22/15	ISSUED FOR CONSTRUCTION:	REVISION: 3
APPROVED BY: MJH	DATE: 5/22/15	DRAWING NUMBER: 24-1601-70-14-A/50.58-02	SHEET 3 OF 3
WO: 1161481		DRAWING NUMBER: 24-1601-70-14-A/50.58-02	



STREAM DISTURBANCE:

STREAM WW-T30-21001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0358
PERMANENT STREAM DISTURBANCE	0.0040
TOTAL STREAM DISTURBANCE	0.0398
TEMPORARY FLOODWAY DISTURBANCE	0.1781
PERMANENT FLOODWAY DISTURBANCE	0.0232
TOTAL FLOODWAY DISTURBANCE	0.2013

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	17.25
STREAM LENGTH	80.20

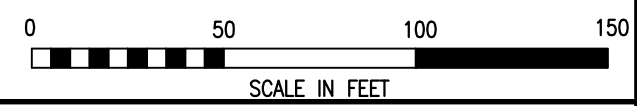


GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2711+47 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 59' LT. OF M.P. 51.36, ELEV. = 1179.49' (NAVD88).



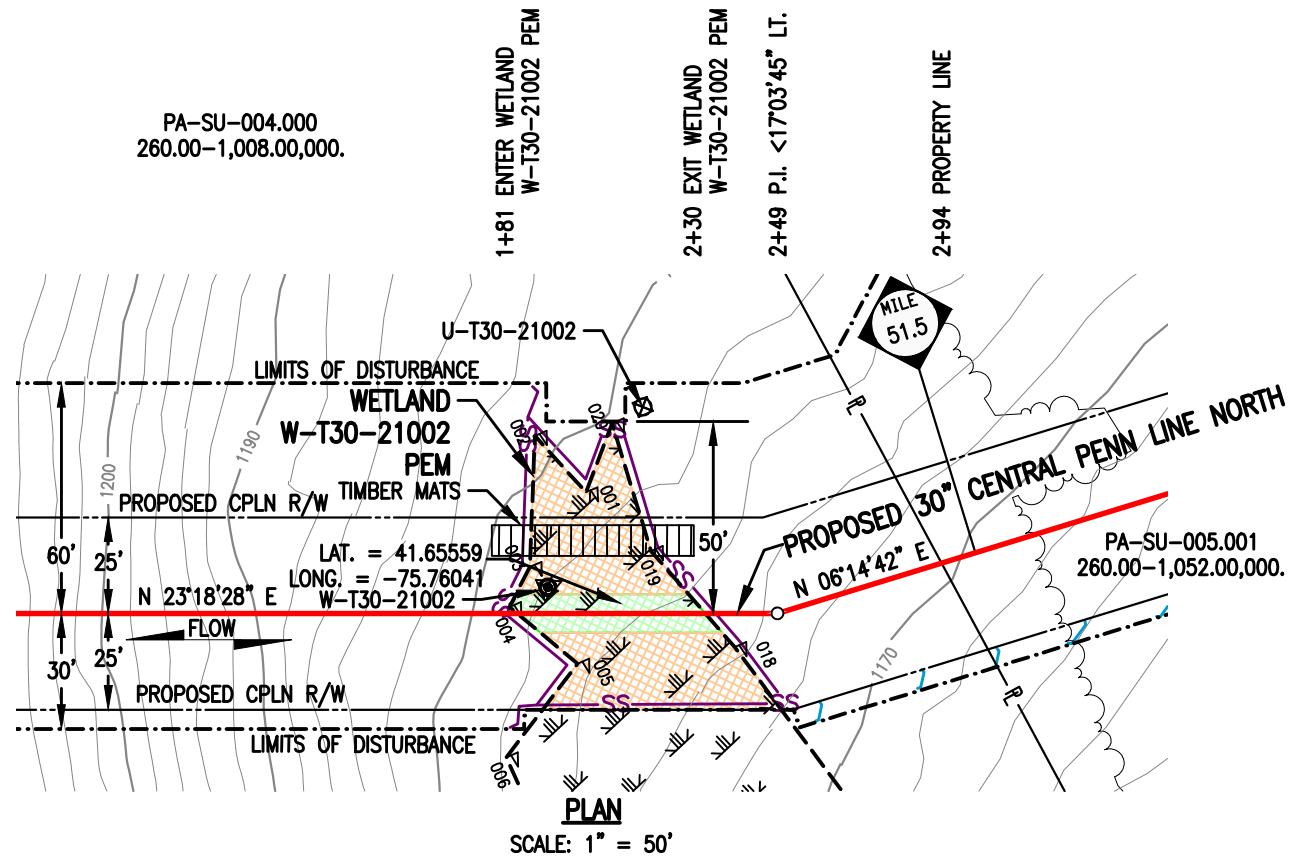
THIS DRAWING SUPERCEDES 24-1601-70-09-A/51.35-01

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC						
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS						
				ATLANTIC SUNRISE PROJECT						
				PROPOSED 30" CENTRAL PENN LINE NORTH						
				STREAM CROSSING WW-T30-21001						
				© M.P. 51.35						
				LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 01/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/51.35-02	SHEET 1
2	10/06/16	MGJ	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	IWO: 1161481		4:05pm 10/12/2016 t2le	OF 1

PA-SU-004.000
260.00-1,008.00,000.



WETLAND DISTURBANCE:

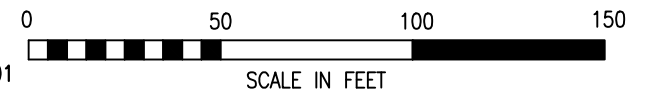
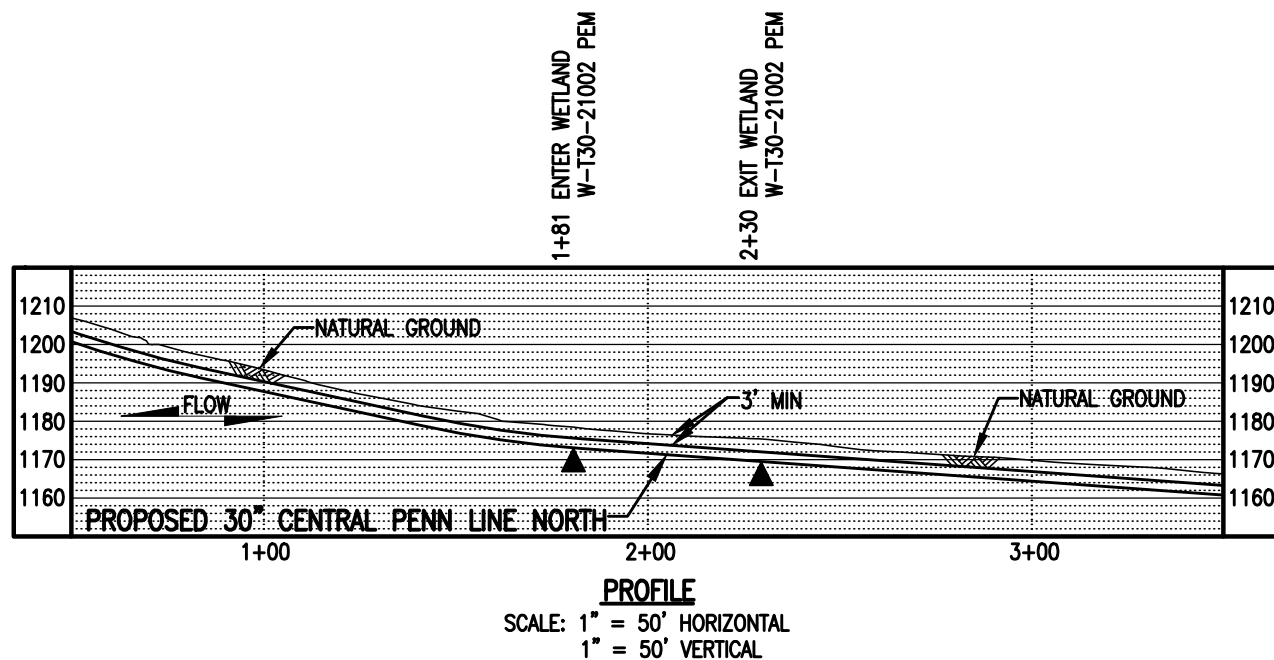
WETLAND W-T30-21002	ACRE
TEMPORARY DISTURBANCE	0.0477
PERMANENT DISTURBANCE	0.0110
TOTAL DISTURBANCE	0.0587

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 2717+17 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 356' LT. OF M.P. 51.46, ELEV. = 1210.31' (NAVD88).

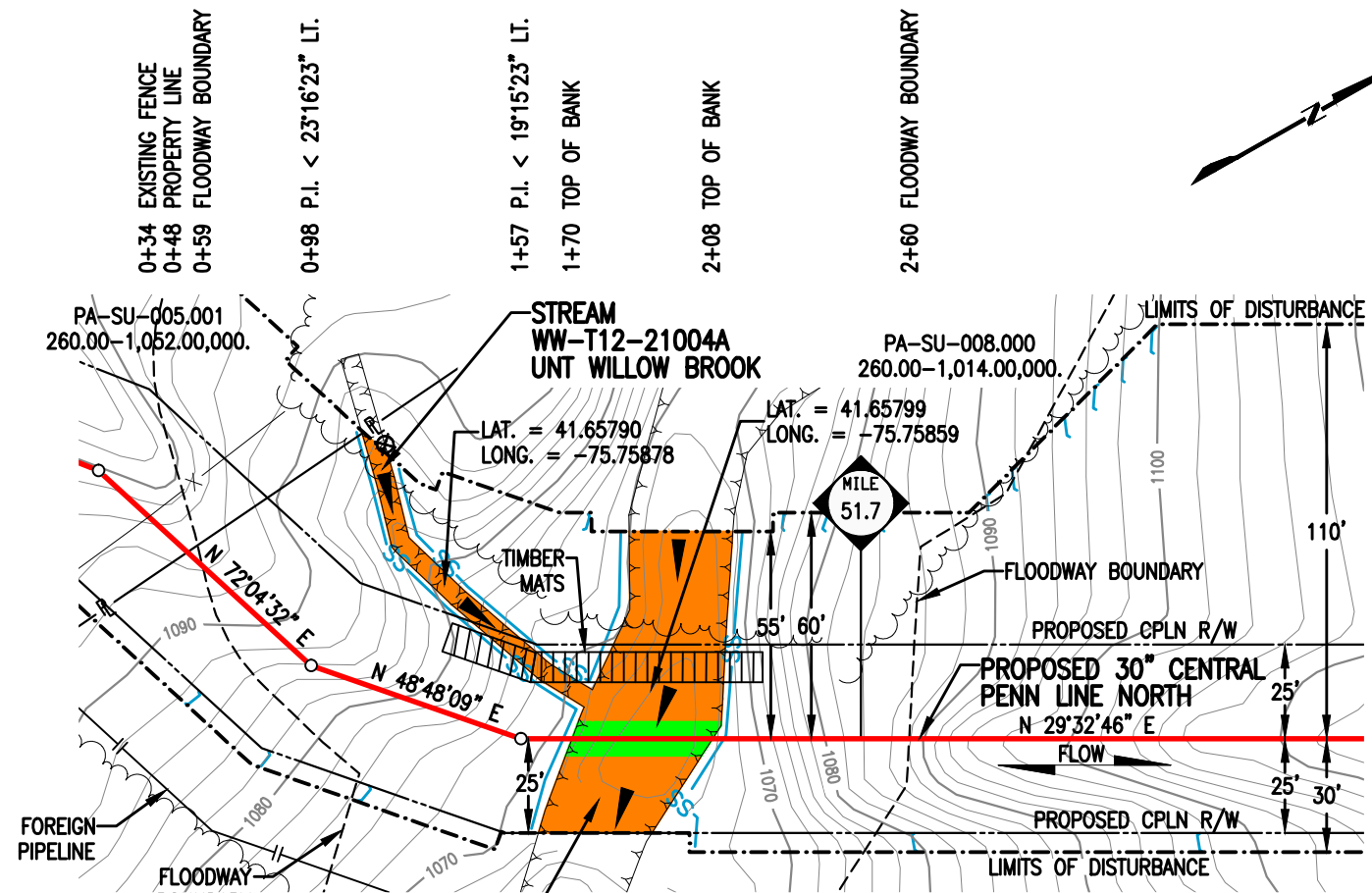


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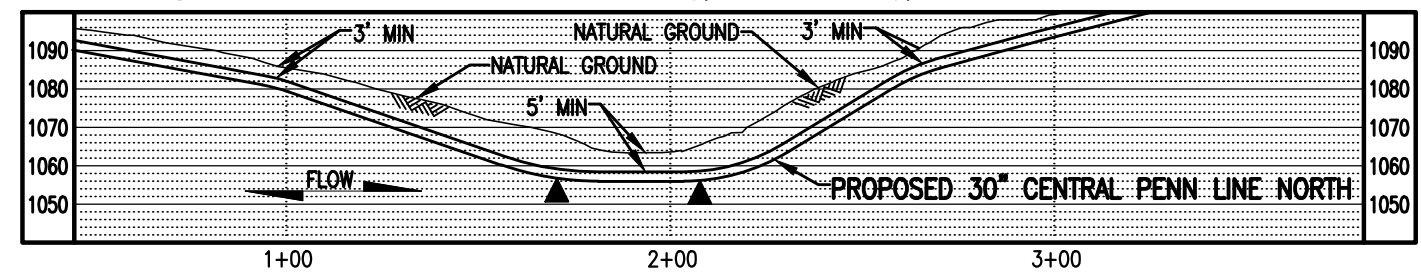
LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	TOP OF BANK
FOREIGN PIPELINE	WATERBODY	PERMANENT WETLAND IMPACT
WETLAND AREA	TREE LINE	TEMPORARY WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T30-21002 ● M.P. 51.48 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	10/06/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: AO		DATE: 03/06/15		ISSUED FOR BID:	
CHECKED BY: ML		DATE: 04/13/15		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-20-A/51.48-02 SHEET 1	
WO: 1161481		9/23/2016		OF 1	



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T12-21004A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0106
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0106
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM WW-T12-21004	ACRE
TEMPORARY STREAM DISTURBANCE	0.0494
PERMANENT STREAM DISTURBANCE	0.0085
TOTAL STREAM DISTURBANCE	0.0579
TEMPORARY FLOODWAY DISTURBANCE	0.2969
PERMANENT FLOODWAY DISTURBANCE	0.0376
TOTAL FLOODWAY DISTURBANCE	0.3345

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	15.30
STREAM LENGTH	103.88

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	37.30
STREAM LENGTH	83.26

GENERAL NOTES:

1. STREAM WW-T12-21004A DOES NOT CROSS PROPOSED PIPELINE. STREAM WILL BE MATTED DURING CONSTRUCTION.
2. STREAM CROSSING METHOD FOR WW-T12-21004 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
3. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
4. STATION 1+00 SHOWN IS EQUAL TO STATION 2728+29 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 9.9' LT. OF M.P. 51.68, ELEV. = 1071.67' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/51.69-01

LEGEND

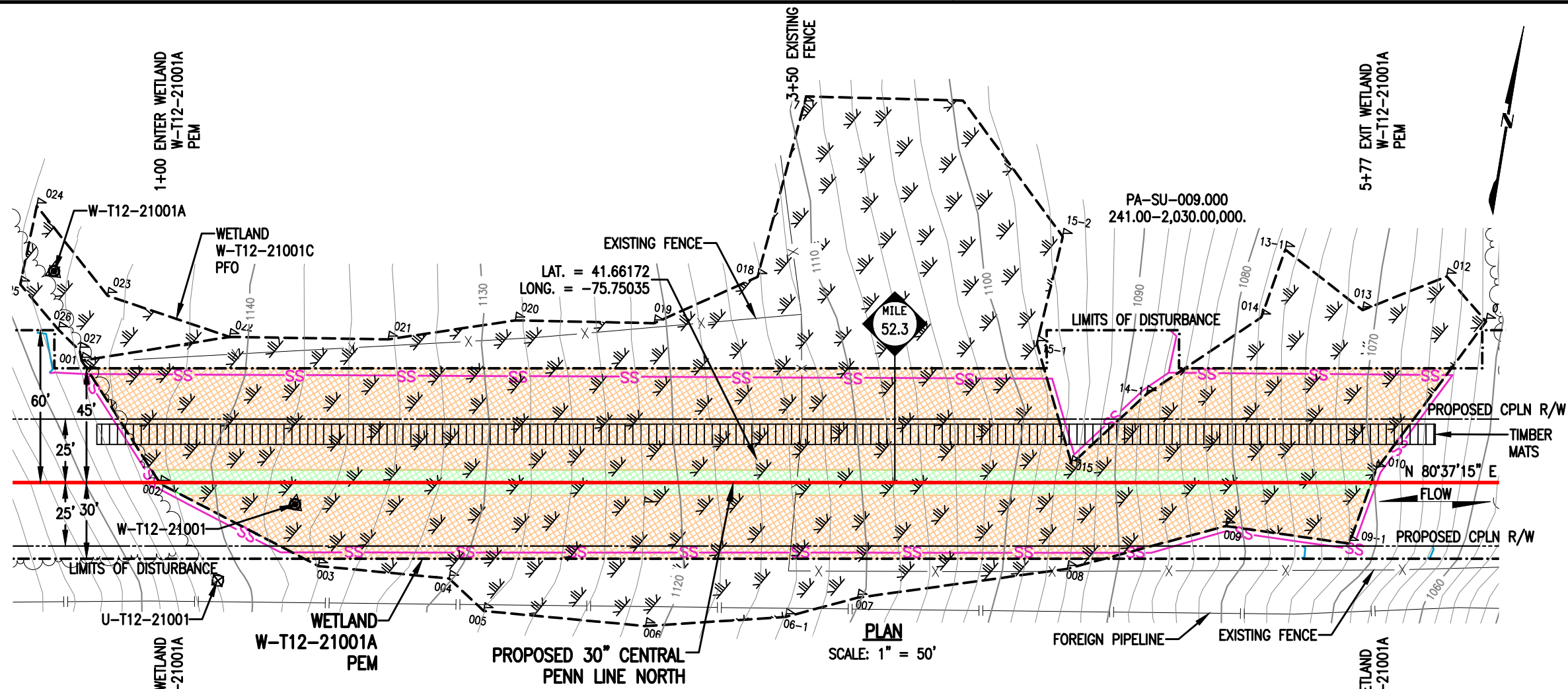
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - - LIMITS OF DISTURBANCE
- - - - - PROPOSED CPLN R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- FLOODWAY BOUNDARY
- FEMA FLOODWAY BOUNDARY

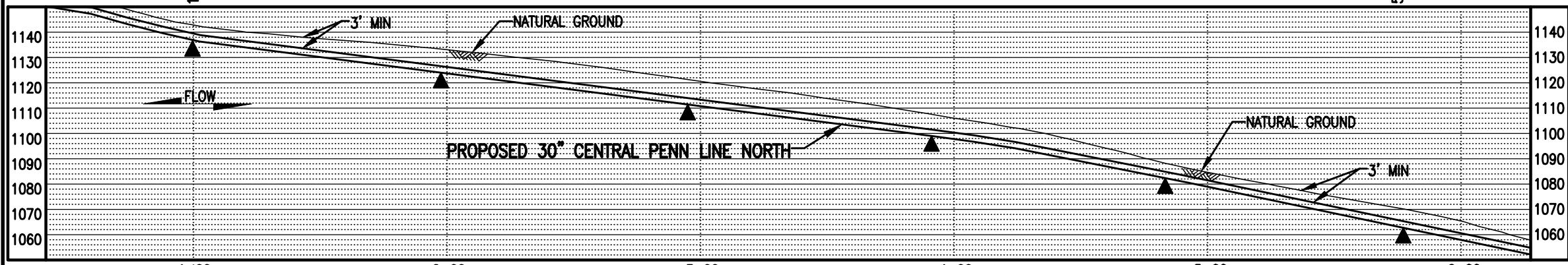
- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC	
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSINGS WW-T12-21004 @ M.P. 51.68 & WW-T12-21004 @ M.P. 51.69 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/03/16	MGJ	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 01/05/15		ISSUED FOR BID:	
CHECKED BY: ML		DATE: 03/07/15		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-09-A/51.69-02	
IWO: 1161481		10/13/2016		SHEET 1 OF 1	



WETLAND DISTURBANCE:

WETLAND W-T12-21001A	ACRE
TEMPORARY DISTURBANCE	0.6798
PERMANENT DISTURBANCE	0.1093
TOTAL DISTURBANCE	0.7891



- NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 1+00 SHOWN IS EQUAL TO STATION 2758+54 ON THE EROSION AND SEDIMENT CONTROL PLAN.

- SURVEY NOTES:**
- T.B.M. SURVEY CONTROL POINT - 82' RT. OF M.P. 52.36, ELEV. = 1032.44' (NAVD88).

LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	
EXISTING PIPELINES	PHOTO DATA POINT	
EXISTING TGPL R/W	WETLAND DATA POINT	12" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	18" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	24" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	32" SEDIMENT BARRIER
FOREIGN PIPELINE	WATERBODY	TOP OF BANK
WETLAND AREA	TREE LINE	PERMANENT WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	TEMPORARY WETLAND IMPACT
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

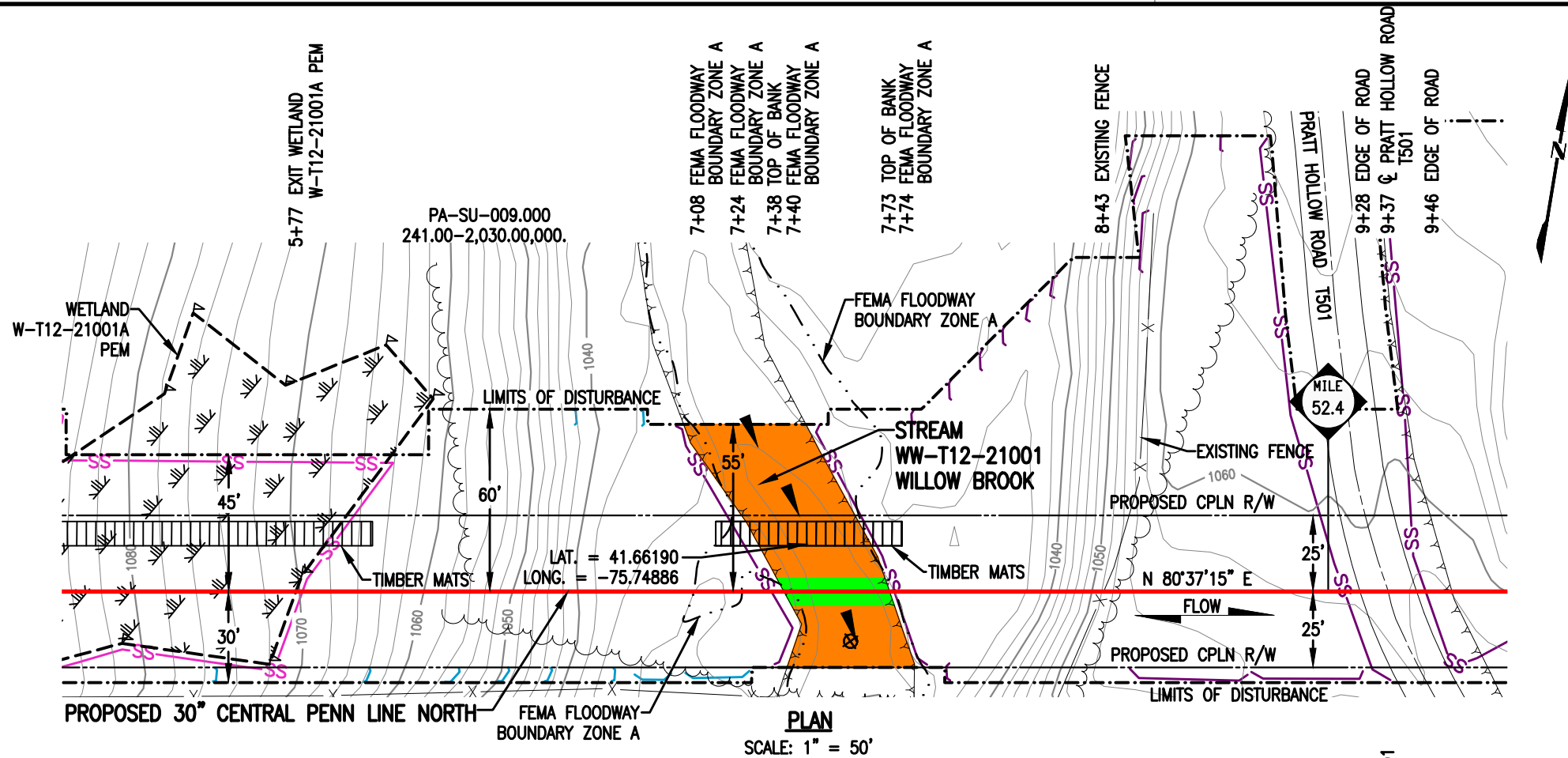
WOOD GROUP MUSTANG, INC.

THIS DRAWING SUPERCEDES 24-1601-70-20-A/52.25-01

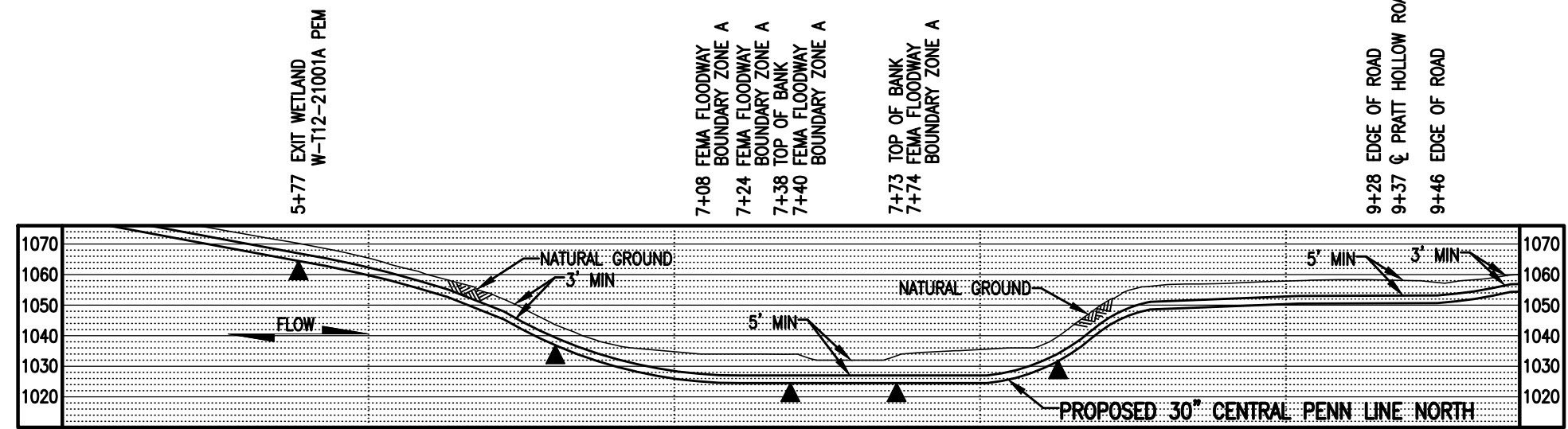
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	AO	03/06/15		1" = 50'
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	ML	04/13/15		REVISION: 2
2	10/06/16	MA	REVISED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	MJH	04/13/15		

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T12-21001A
© M.P. 52.29
LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWING NUMBER: 24-1601-70-20-A/52.25-02 SHEET 1 OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T12-21001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0607
PERMANENT STREAM DISTURBANCE	0.0080
TOTAL STREAM DISTURBANCE	0.0687
TEMPORARY FLOODWAY DISTURBANCE	0.0193
PERMANENT FLOODWAY DISTURBANCE	0.0041
TOTAL FLOODWAY DISTURBANCE	0.0234

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	34.75
STREAM LENGTH	87.96

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 6+00 SHOWN IS EQUAL TO STATION 2763+54 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 72' RT. OF M.P. 52.37, ELEV. = 1033.71' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/52.37-01

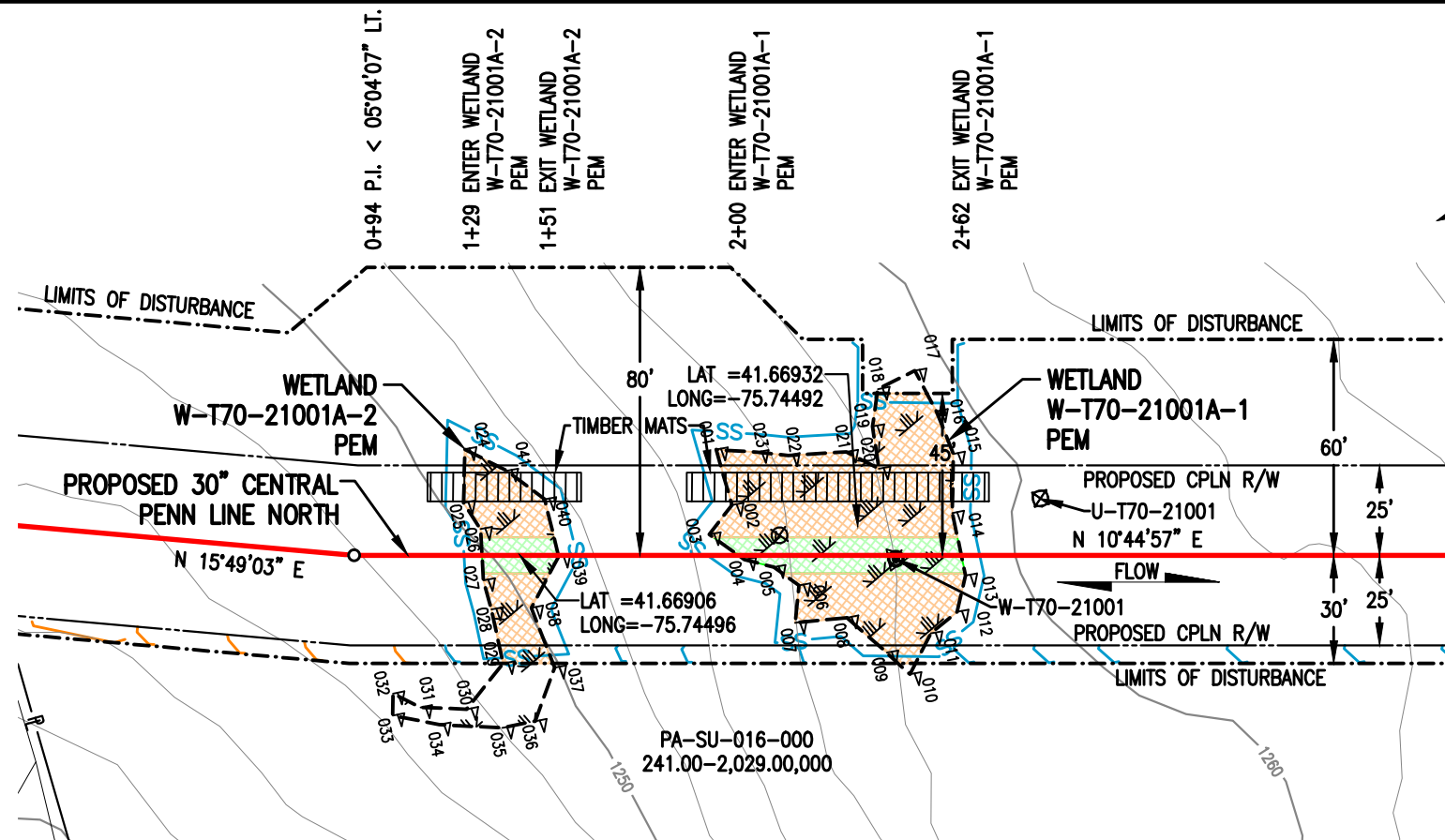
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		SEDIMENT BARRIER

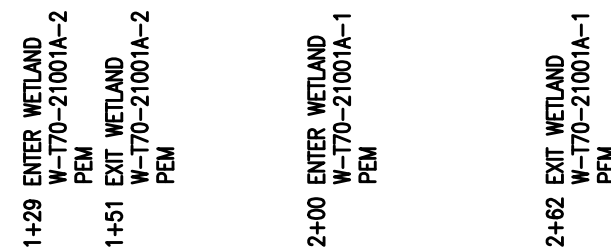
WOOD GROUP MUSTANG, INC.

	12" SEDIMENT BARRIER		PERMANENT STREAM IMPACT
	18" SEDIMENT BARRIER		TEMPORARY STREAM IMPACT
	24" SEDIMENT BARRIER		
	32" SEDIMENT BARRIER		
	TOP OF BANK		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T12-21001 © M.P. 52.37 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/06/16	JJB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 01/05/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/52.37-02	SHEET 1	
IWO: 1161481		10/13/2016	OF 1		



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

WETLAND DISTURBANCE:

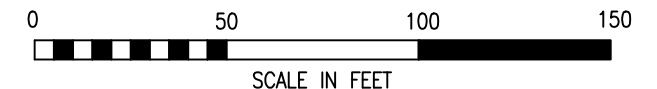
WETLAND W-T70-21001A-1 / W-T70-21001A-2	ACRE
TEMPORARY DISTURBANCE	0.0756
PERMANENT DISTURBANCE	0.0185
TOTAL DISTURBANCE	0.0941

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 2+00 SHOWN IS EQUAL TO STATION 2794+40 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

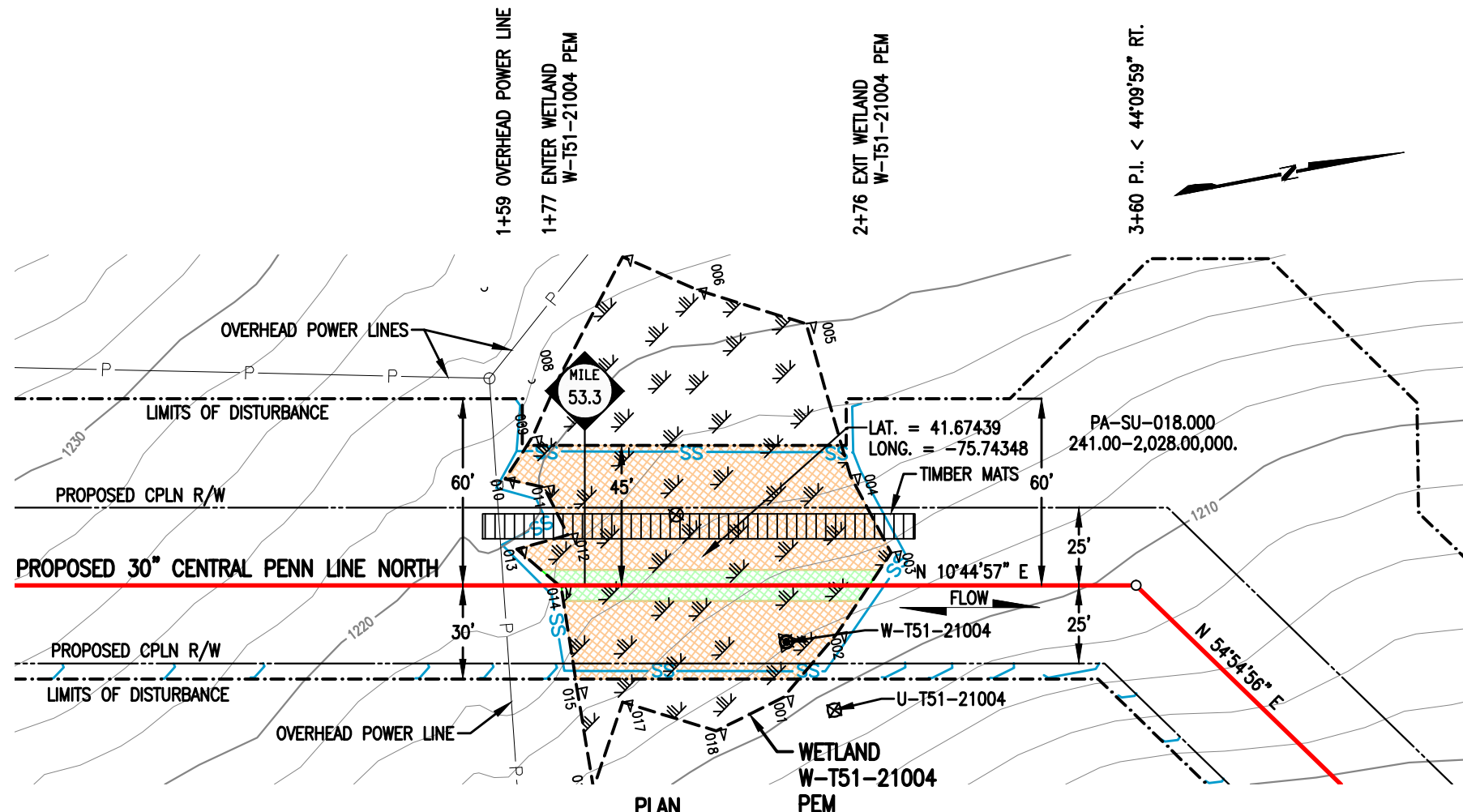
- T.B.M. IRON ROD - 126' RT. OF M.P. 53.03, ELEV. = 1278.47' (NAVD88).



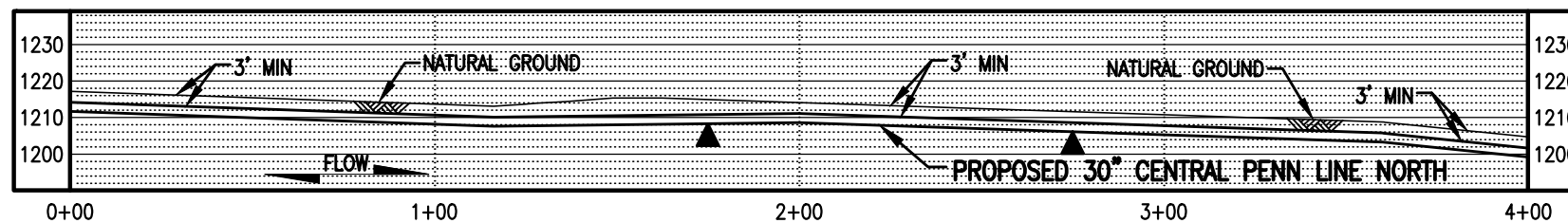
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT WETLAND IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY WETLAND IMPACT
	EXISTING POWER LINE		FLOODWAY BOUNDARY		
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSINGS W-T70-21001A-1 & W-T70-21001A-2 @ M.P. 52.94 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: DLK	DATE: 07/15/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/06/16	DLK	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 07/15/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/18/16	DRAWING NUMBER: 24-1601-70-20-A/52.94-01	SHEET 1
							WO: 1161481		10/13/2016 t2le	OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

WETLAND DISTURBANCE:

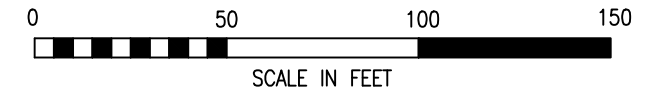
WETLAND W-T51-21004	ACRE
TEMPORARY DISTURBANCE	0.1454
PERMANENT DISTURBANCE	0.0231
TOTAL DISTURBANCE	0.1685

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 2+00 SHOWN IS EQUAL TO STATION 2814+39 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 77.25' RT. OF M.P. 53.39, ELEV. = 1163.91' (NAVD88).



LEGEND

PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	TOP OF BANK
FOREIGN PIPELINE	WATERBODY	PERMANENT WETLAND IMPACT
WETLAND AREA	TREE LINE	TEMPORARY WETLAND IMPACT
EXISTING POWER LINE	FLOODWAY BOUNDARY	
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	

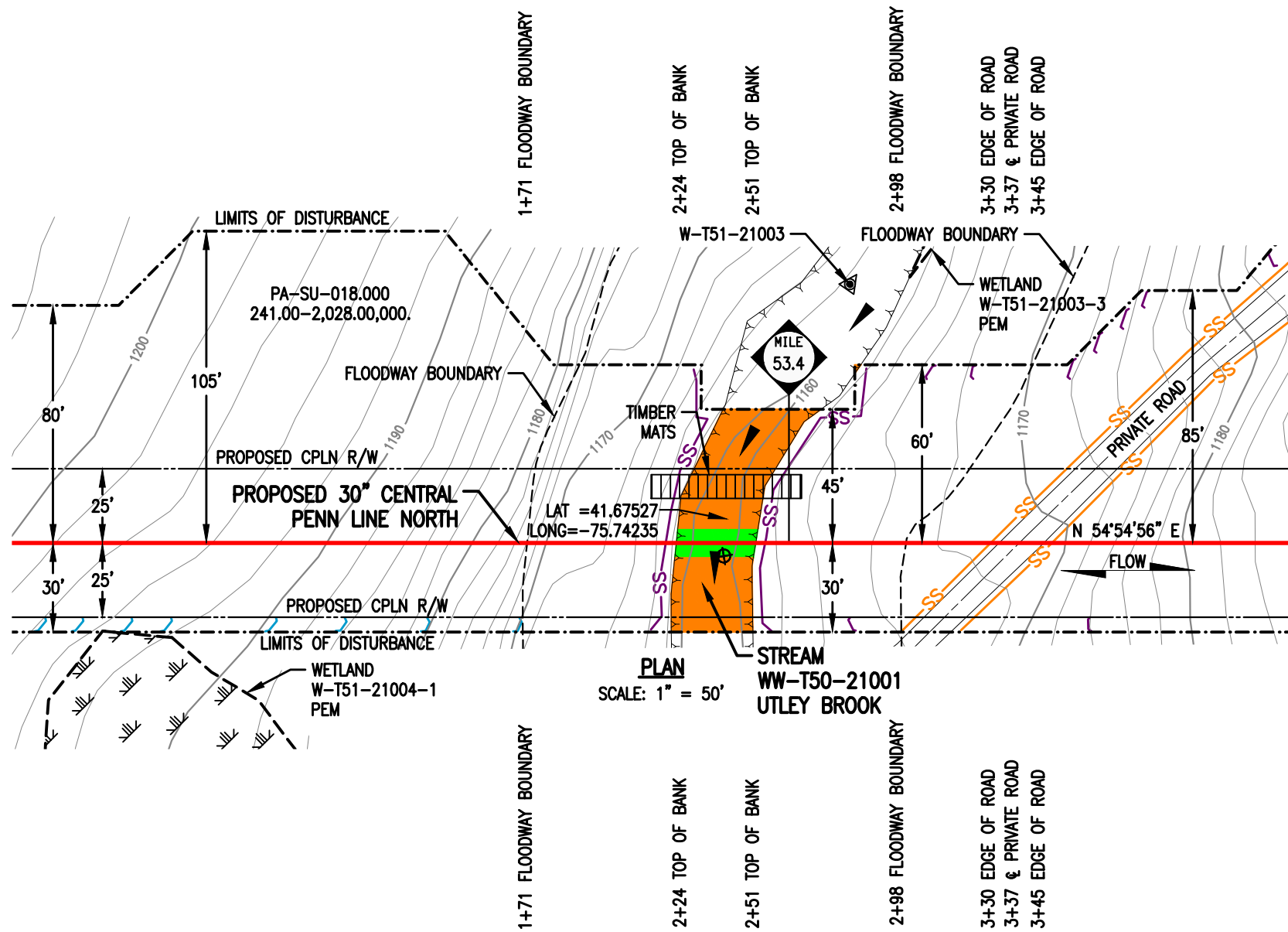
DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/06/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T51-21004
● M.P. 53.30
LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

Williams

DRAWN BY: TL	DATE: 12/07/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 06/22/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/23/16	DRAWING NUMBER: 24-1601-70-20-A/53.30-01	SHEET 1
WO: 1161481		10/13/2016 t2le	OF 1



STREAM DISTURBANCE:

STREAM WW-T50-21001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0414
PERMANENT STREAM DISTURBANCE	0.0061
TOTAL STREAM DISTURBANCE	0.0475
TEMPORARY FLOODWAY DISTURBANCE	0.1991
PERMANENT FLOODWAY DISTURBANCE	0.0232
TOTAL FLOODWAY DISTURBANCE	0.2223
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	26.73
STREAM LENGTH	85.68

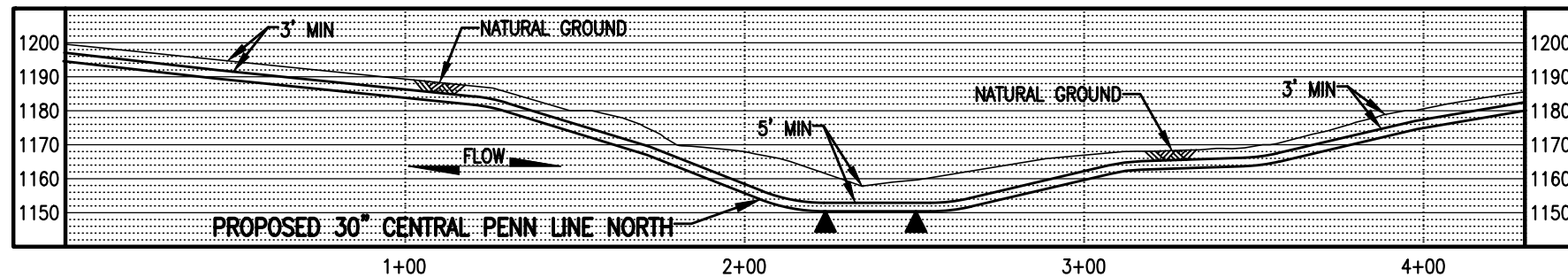
PLAN
SCALE: 1" = 50'

GENERAL NOTES:

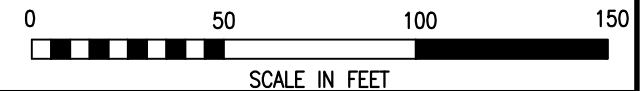
1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 2818+93 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 77' RT. OF M.P. 53.39, ELEV. = 1163.91' (NAVD88).



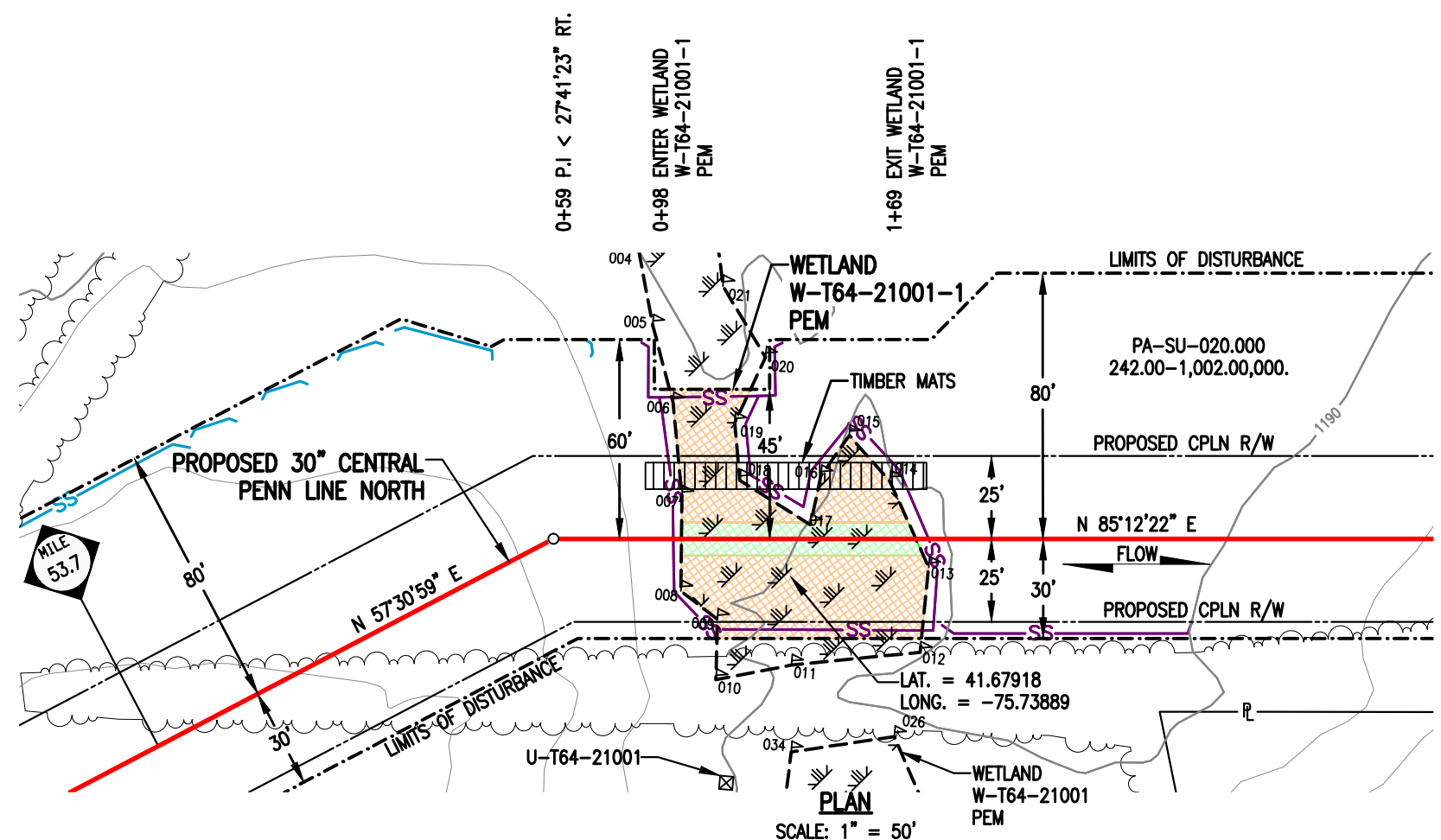
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		TOP OF BANK
	FOREIGN PIPELINE		WATERBODY		PERMANENT STREAM IMPACT
	WETLAND AREA		TREE LINE		TEMPORARY STREAM IMPACT
	STREAM FLOW		FLOODWAY BOUNDARY		
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY		
	EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC						
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS						
				ATLANTIC SUNRISE PROJECT						
				PROPOSED 30" CENTRAL PENN LINE NORTH						
				STREAM CROSSING WW-T50-21001						
				M.P. 53.39						
				LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 06/22/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/06/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 06/22/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 06/23/16	DRAWING NUMBER: 24-1601-70-09-A/53.39-01	SHEET 1
							WC: 1161481		1:06pm 9/26/2016 Uro.jal	OF 1



WETLAND DISTURBANCE:

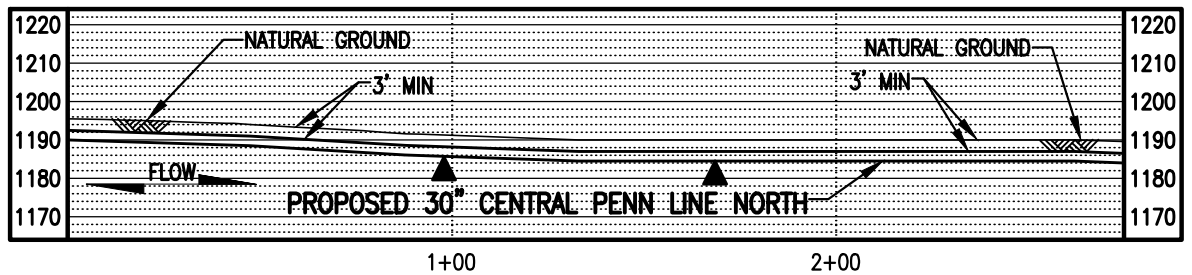
WETLAND W-T64-21001-1	ACRE
TEMPORARY DISTURBANCE	0.0703
PERMANENT DISTURBANCE	0.0162
TOTAL DISTURBANCE	0.0865

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 2837+11 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 254.67' LT. OF M.P. 53.86, ELEV. = 1166.82' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

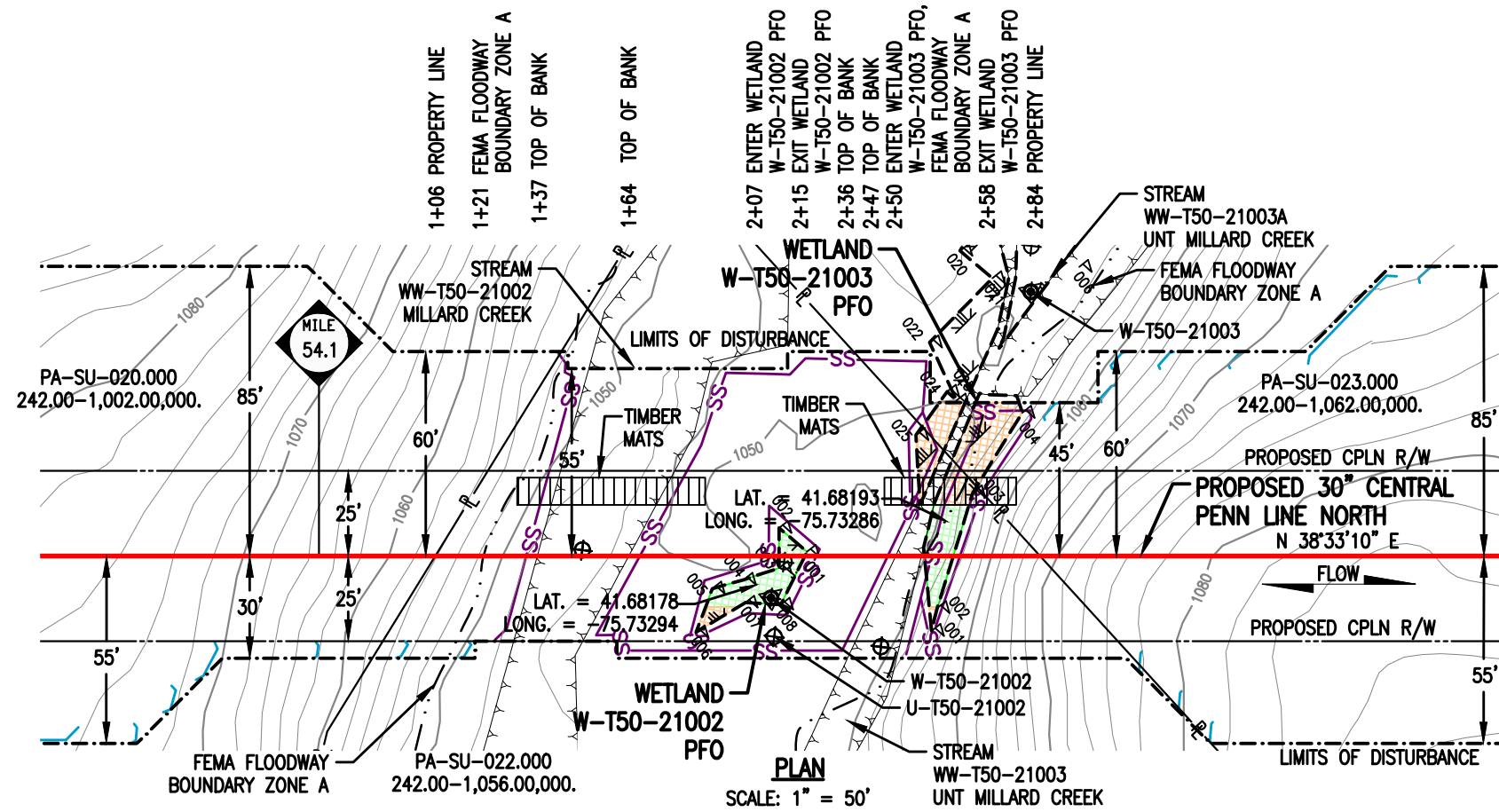
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- F — FOREIGN PIPELINE
- WETLAND AREA
- P — EXISTING POWER LINE
- X — EXISTING FENCE

- WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- WELL POINT
- TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

WOOD GROUP MUSTANG, INC.

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- - - TOP OF BANK
- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT

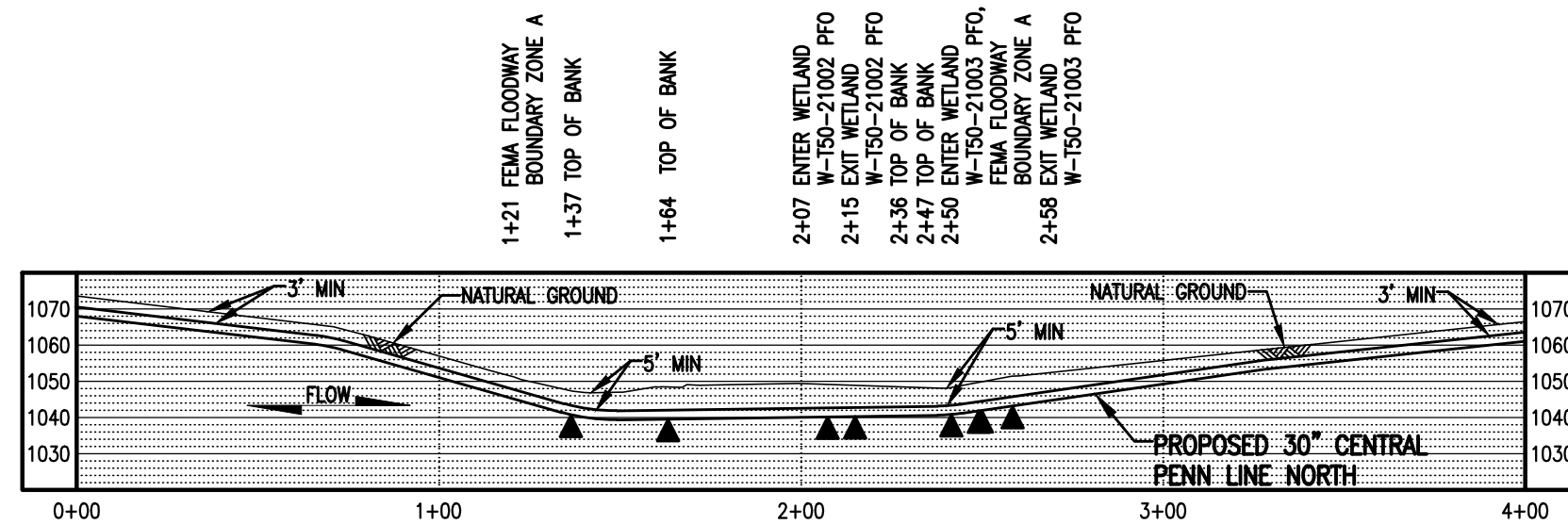
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCRoACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T64-21001-1 ● M.P. 53.73 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA					
NO.		DATE							
0		10/06/16		TL		ISSUED FOR PADEP SUBMITTAL #2		ISSUED FOR BID: 0	
NO.		DATE		BY		W.O. NO.		CHK.	
0		06/16/16		TL		1161481		CLR MJH	
NO.		DATE		BY		W.O. NO.		CHK.	
0		06/22/16		CLR		1161481		MJH	
NO.		DATE		BY		W.O. NO.		CHK.	
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NO.		DATE		BY		W.O. NO.		CHK.	
0		06/23/16		MJH		1161481		MJH	
NO.		DATE		BY		W.O. NO.		CHK.	
0		06/23/16		MJH		1161481		MJH	



WETLAND DISTURBANCE:

WETLAND W-T50-21002 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0008
PERMANENT DISTURBANCE	0.0058
TOTAL DISTURBANCE	0.0066

WETLAND W-T50-21003 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0130
PERMANENT DISTURBANCE	0.0052
TOTAL DISTURBANCE	0.0182

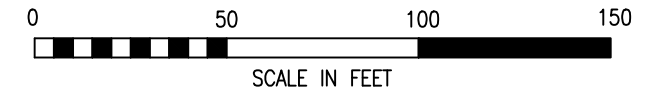


NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 0+00 SHOWN IS EQUAL TO STATION 2855+75 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 78.81' LT. OF M.P. 54.12, ELEV. = 1051.63' (NAVD88).

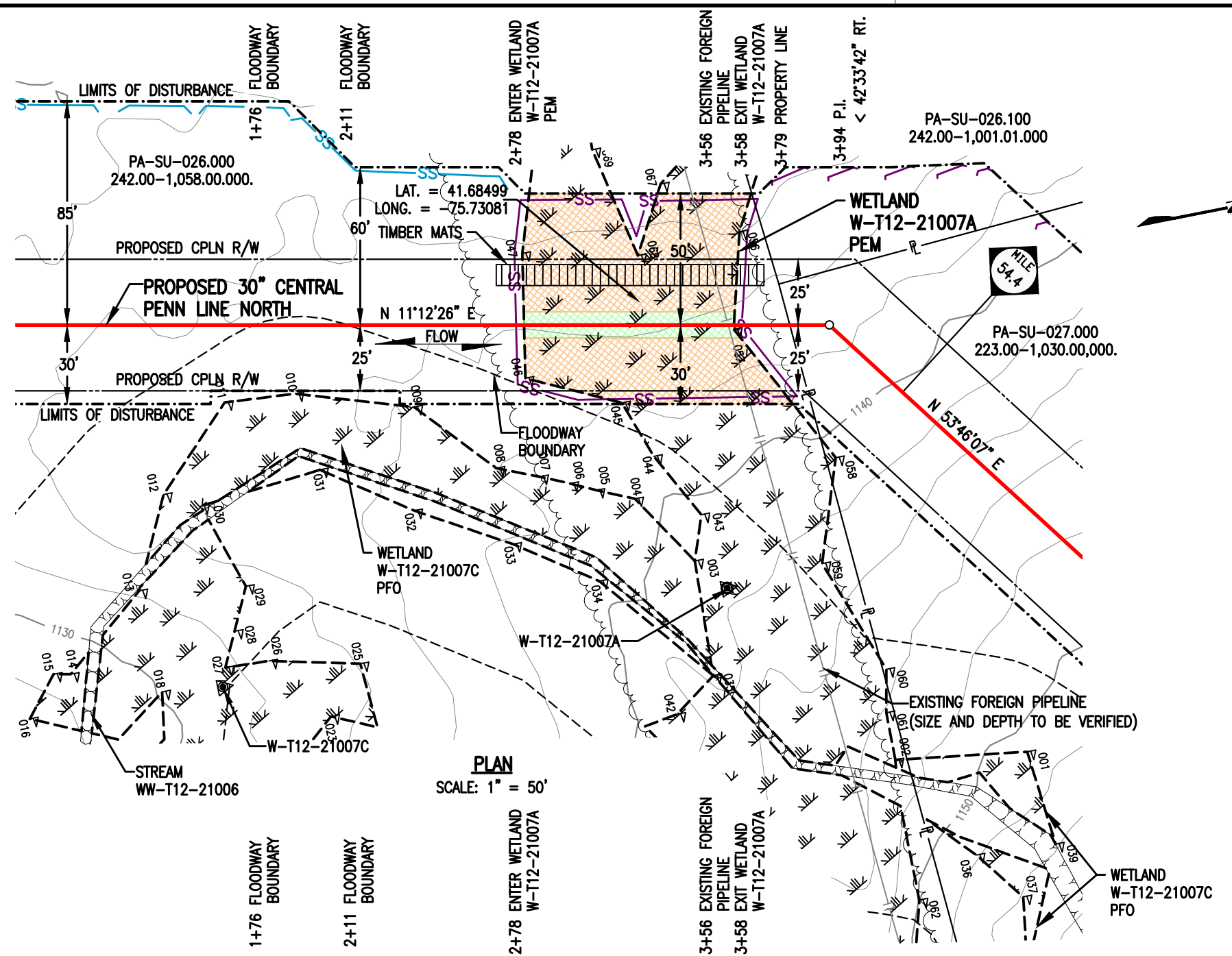


LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS	
	EXISTING PIPELINES		PHOTO DATA POINT	
	EXISTING TGPL R/W		WETLAND DATA POINT	
	LIMITS OF DISTURBANCE		UPLAND DATA POINT	
	PROPOSED CPLN R/W		WELL POINT	
	PROPERTY LINE		TRENCH PLUG	
	FOREIGN PIPELINE		WATERBODY	
	WETLAND AREA		TREE LINE	
	EXISTING POWER LINE		FLOODWAY BOUNDARY	
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY	
	12" SEDIMENT BARRIER		PERMANENT WETLAND IMPACT	
	18" SEDIMENT BARRIER		TEMPORARY WETLAND IMPACT	

DRAWING NO.		REFERENCE TITLE								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 06/24/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/06/16	LL	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH							DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-20-A/54.13-01		SHEET 1
IW: 1161481							9/26/2016	11:01:01		OF 1

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T50-21002 & W-T50-21003
● M.P. 54.13
LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA



WETLAND DISTURBANCE:

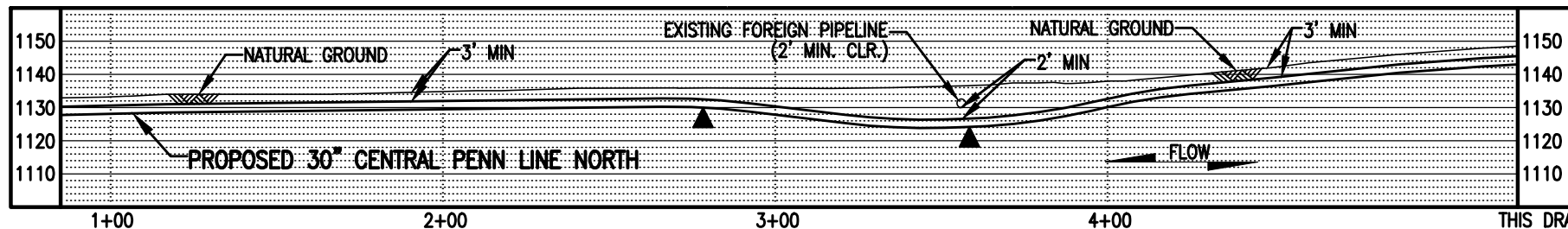
WETLAND W-T12-21007A	ACRE
TEMPORARY DISTURBANCE	0.1281
PERMANENT DISTURBANCE	0.0184
TOTAL DISTURBANCE	0.1465

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 2869+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. IRON ROD - 15.53' LT. OF M.P. 54.39, ELEV. = 1136.87' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

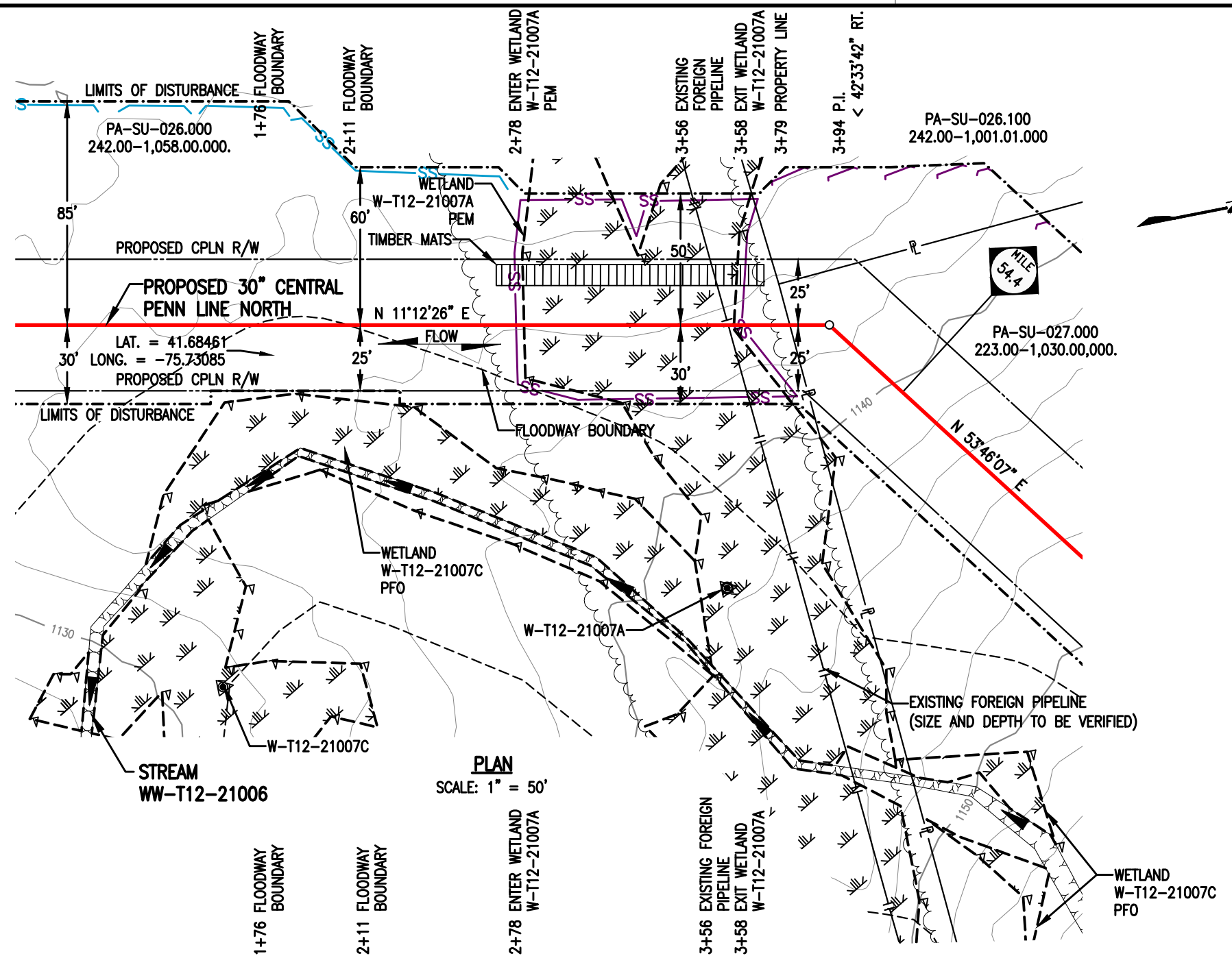


LEGEND

	PROPOSED 30° CENTRAL PENN LINE NORTH		WETLAND FLAGS	
	EXISTING PIPELINES		PHOTO DATA POINT	
	EXISTING TGPL R/W		WETLAND DATA POINT	
	LIMITS OF DISTURBANCE		UPLAND DATA POINT	
	PROPOSED CPLN R/W		WELL POINT	
	PROPERTY LINE		TRENCH PLUG	
	FOREIGN PIPELINE		WATERBODY	
	WETLAND AREA		TREE LINE	
	EXISTING POWER LINE		FLOODWAY BOUNDARY	
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY	

	12" SEDIMENT BARRIER		PERMANENT WETLAND IMPACT
	18" SEDIMENT BARRIER		TEMPORARY WETLAND IMPACT
	24" SEDIMENT BARRIER		
	32" SEDIMENT BARRIER		
	TOP OF BANK		

DRAWING NO.		REFERENCE TITLE		<p>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCRoACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30° CENTRAL PENN LINE NORTH WETLAND CROSSING W-T12-21007A M.P. 54.38 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA</p>						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/06/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-20-A/54.35-02	SHEET 1
				W.O. NO.:	CHK.:	APP.:	W.O. NO.:	CHK.:	APP.:	OF 1



STREAM DISTURBANCE:

STREAM WW-T12-21006	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0583
PERMANENT FLOODWAY DISTURBANCE	0.0074
TOTAL FLOODWAY DISTURBANCE	0.0657

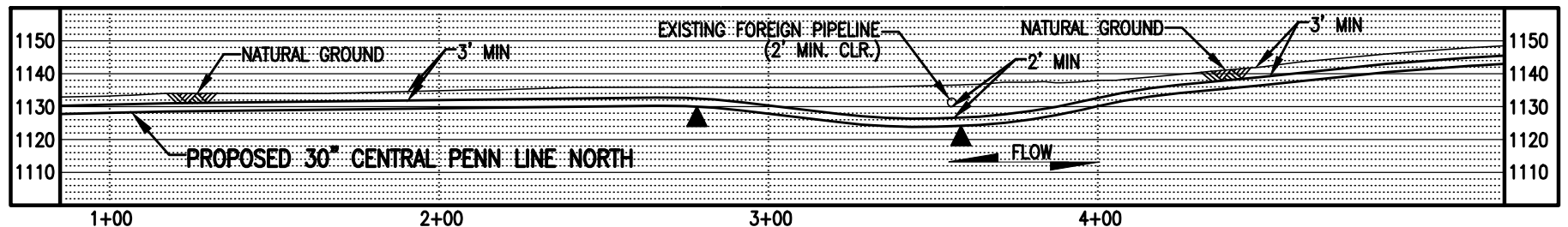
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE.
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2869+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. IRON ROD - 15.53' LT. OF M.P. 54.39, ELEV. = 1136.87' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		

WOOD GROUP MUSTANG, INC.

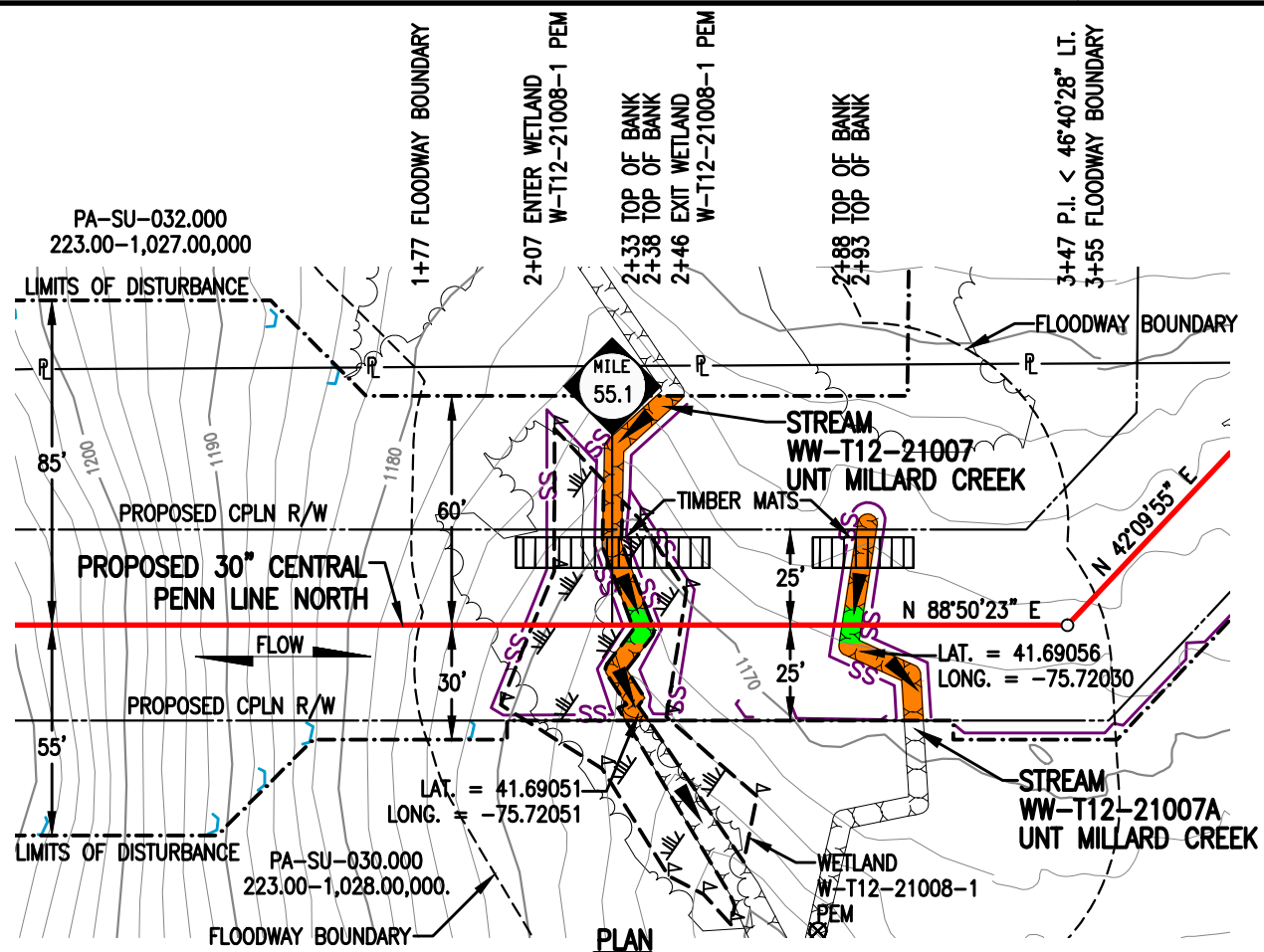
	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	PERMANENT STREAM IMPACT
	TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE											
NO.		DATE		BY		REVISION DESCRIPTION		W.O. NO.		CHK.		APP.	
0		02/03/16		AT		ISSUED FOR INTERNAL USE		1161481		CLR		MJH	
1		10/06/16		JJB		ISSUED FOR PADEP SUBMITTAL #2		1161481		CLR		MJH	

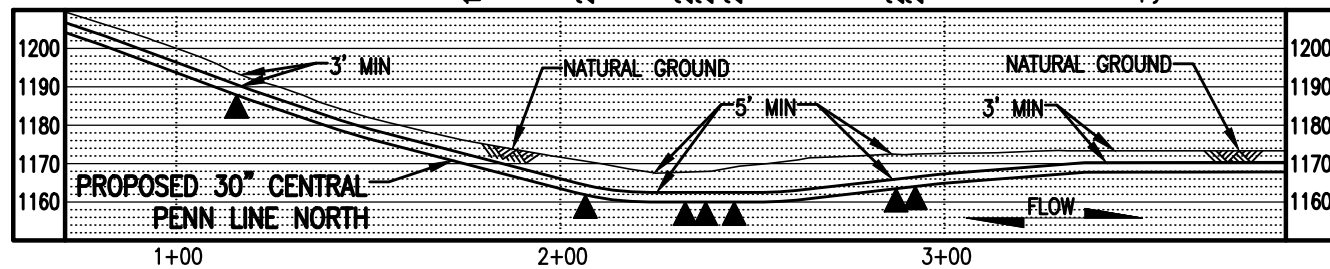
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSING WW-T12-21006
M.P. 54.35
LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

Williams

DRAWN BY: AT	DATE: 01/27/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 01/27/16	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 01/27/16	DRAWING NUMBER: 24-1601-70-09-A/54.36-01	SHEET 1
WC: 1161481		9/26/2016	OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T12-21007	ACRE
TEMPORARY STREAM DISTURBANCE	0.0098
PERMANENT STREAM DISTURBANCE	0.0013
TOTAL STREAM DISTURBANCE	0.0111
TEMPORARY FLOODWAY DISTURBANCE	0.2627
PERMANENT FLOODWAY DISTURBANCE	0.0312
TOTAL FLOODWAY DISTURBANCE	0.2939

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.32
STREAM LENGTH	98.18

STREAM WW-T12-21007A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0062
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0074
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.04
STREAM LENGTH	62.56

GENERAL NOTES:

1. STREAM CROSSING METHODS SHALL BE DAM AND PUMP (DPX) FOR WW-T12-21007 AND WW-T12-21007A. EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 2908+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 16' RT. OF M.P. 55.09, ELEV. = 1169.26' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/55.10-01

LEGEND

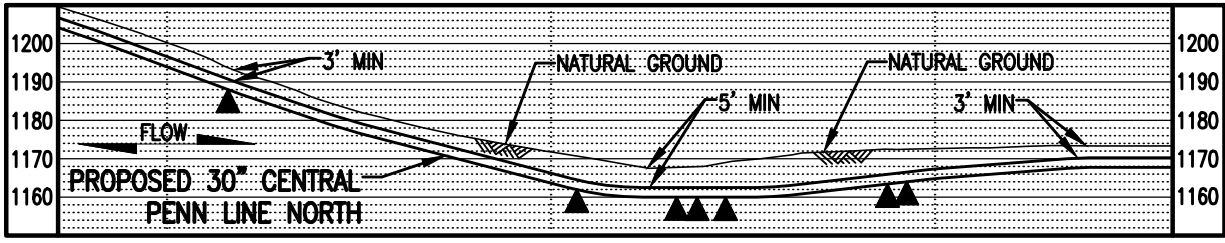
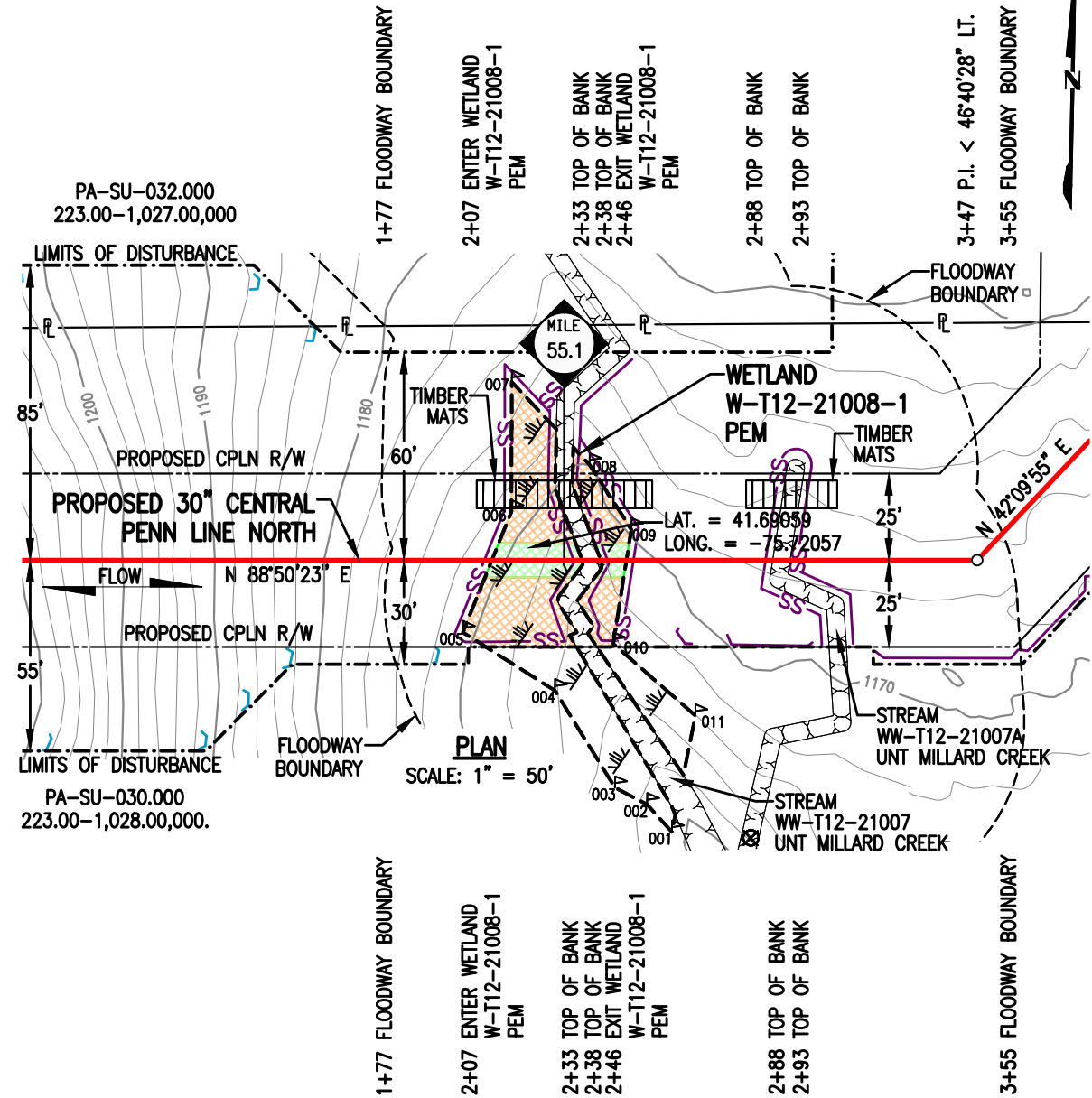
- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P — EXISTING POWER LINE
- X — EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊗ WETLAND DATA POINT
- ⊗ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		<p style="text-align: center;">TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSINGS WW-T12-21007 @ M.P. 55.10 & WW-T12-21007A @ M.P. 55.11 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA</p>		<p style="text-align: right;">Williams</p>				
NO.		DATE						SCALE: 1" = 50'		
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 01/02/15	ISSUED FOR BID:	REVISION: 2
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	
2	10/06/16	MGJ	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/55.10-02	SHEET 1	OF 1



WETLAND DISTURBANCE:

WETLAND W-T12-21008-1 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0347
PERMANENT DISTURBANCE	0.0076
TOTAL DISTURBANCE	0.0423

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 2908+00 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 16' RT. OF M.P. 55.09, ELEV. = 1169.26' (NAVD88).



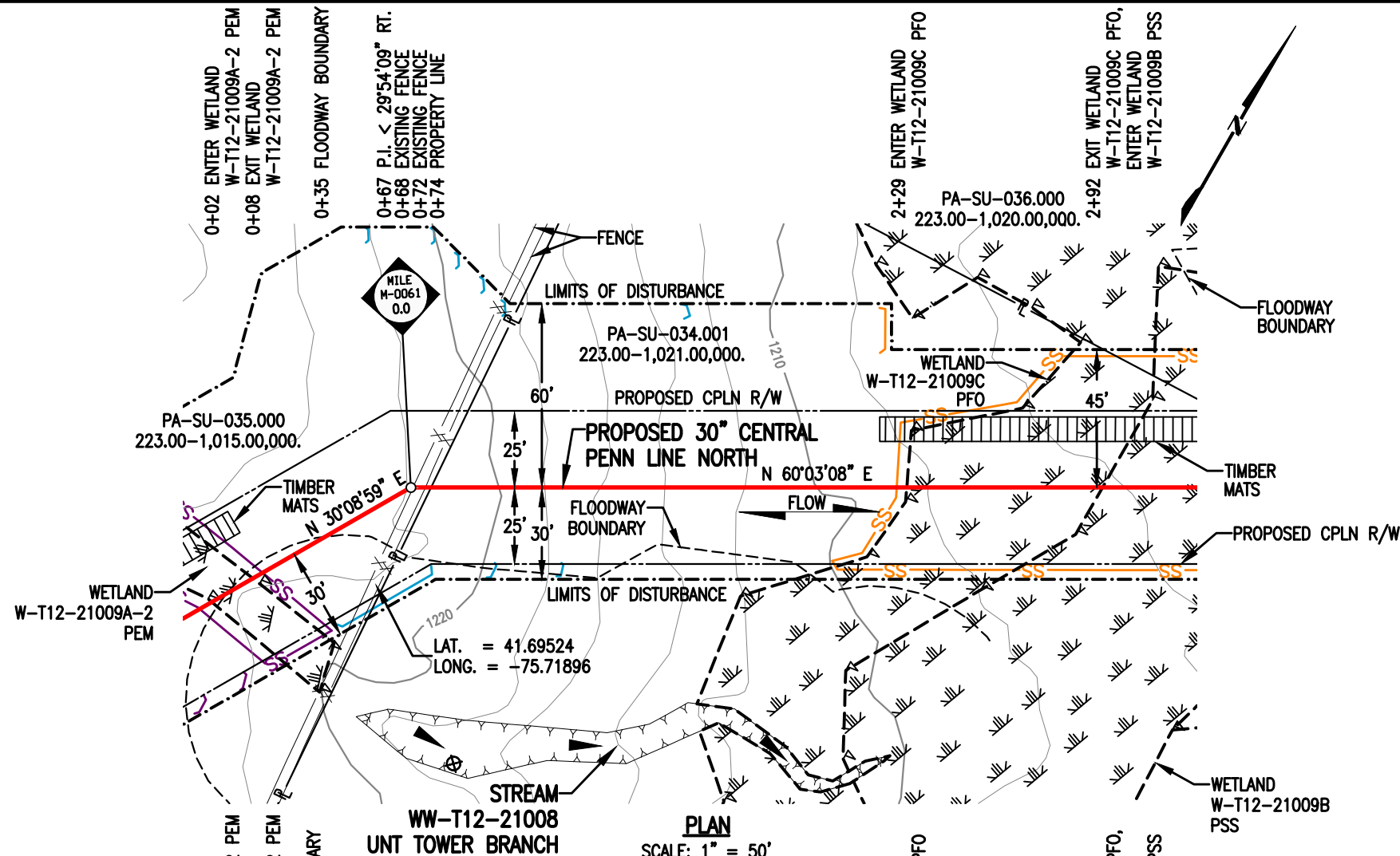
LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT WETLAND IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY WETLAND IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		12" SEDIMENT BARRIER
	PROPOSED CPLN R/W		WELL POINT		18" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		24" SEDIMENT BARRIER
	FOREIGN PIPELINE		WATERBODY		32" SEDIMENT BARRIER
	WETLAND AREA		TREE LINE		TOP OF BANK
	EXISTING POWER LINE		FLOODWAY BOUNDARY		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE				

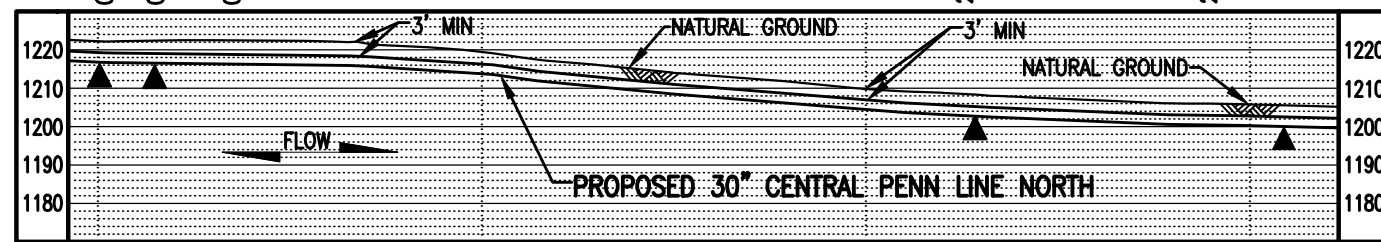
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DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T12-21008-1 © M.P. 55.10 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	07/31/16	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/06/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH

DRAWN BY: THL	DATE: 01/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 07/20/15	DRAWING NUMBER: 24-1601-70-20-A/55.10-02	SHEET 1
W.O. NUMBER: 1161481	DATE: 9/27/2016	FILE: l1r0.jal	OF 1



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T12-21008	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0521
PERMANENT FLOODWAY DISTURBANCE	0.0055
TOTAL FLOODWAY DISTURBANCE	0.0576

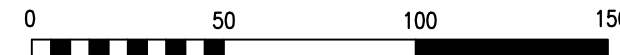
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE.
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO M-0061 STATION 1+33 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 14' LT. OF M-0061 M.P. 0.06, ELEV. = 1204.31' (NAVD88).



THIS DRAWING SUPERCEDES 24-1601-70-09-A/M-0061-0.00-01

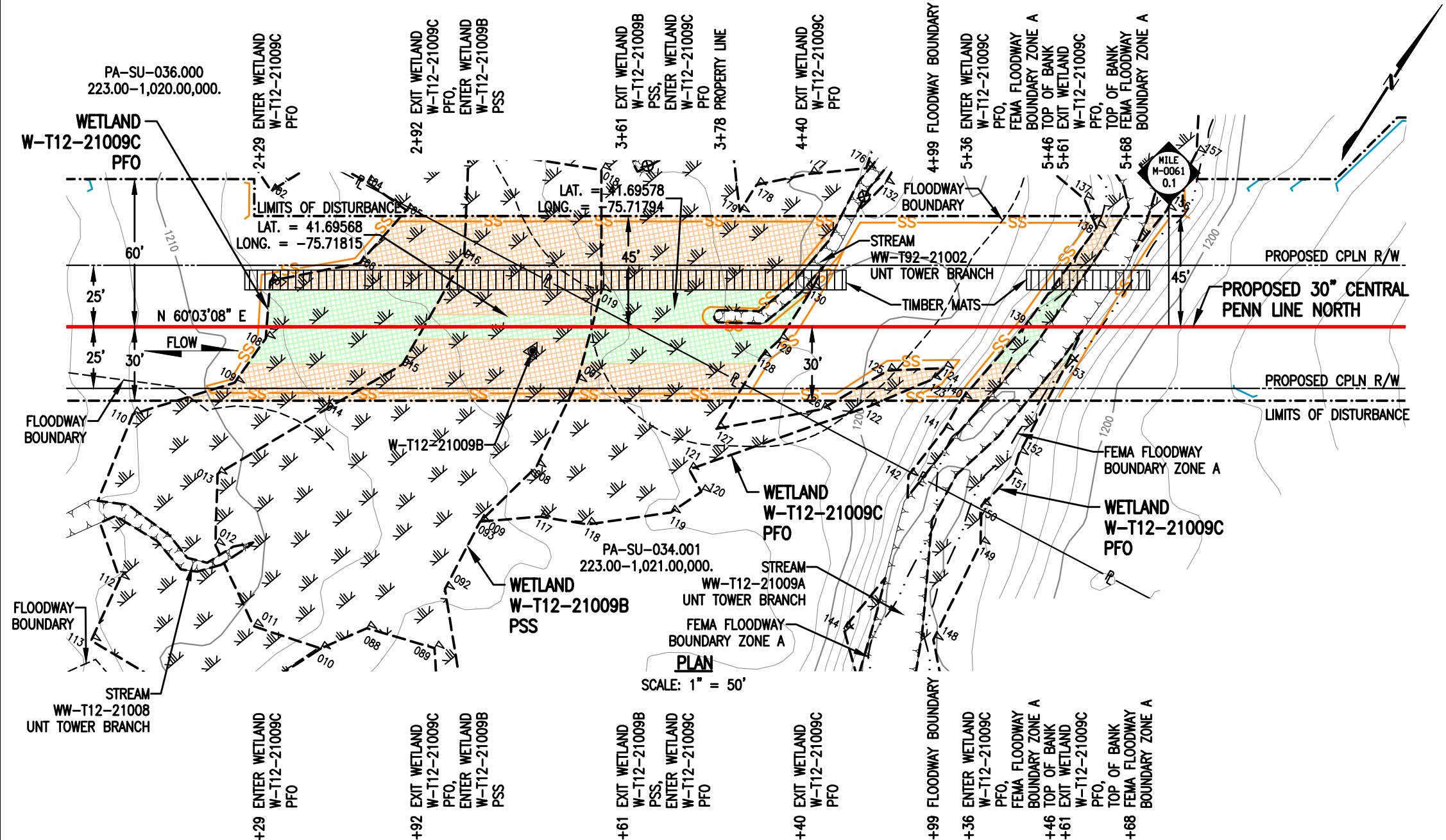
SCALE IN FEET

LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT



DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC						
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS						
				ATLANTIC SUNRISE PROJECT						
				PROPOSED 30" CENTRAL PENN LINE NORTH						
				STREAM CROSSING WW-T12-21008						
				M-0061 M.P. 0.00						
				LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 01/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY: MJH	DATE: 04/17/15	DRAWING NUMBER: 24-1601-70-09-A/M-0061-0.00-02	SHEET 1
2	10/06/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	IWO: 1161481		7-32am 10/13/2016 t2le	OF 1



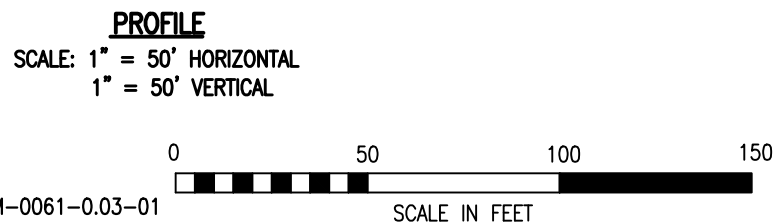
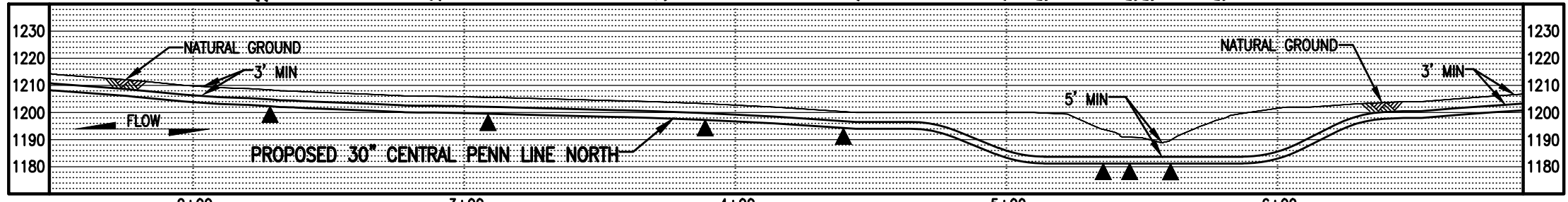
WETLAND DISTURBANCE:

WETLAND W-T12-21009B (EV)	ACRE
TEMPORARY DISTURBANCE	0.0992
PERMANENT DISTURBANCE	0.0156
TOTAL DISTURBANCE	0.1148

WETLAND W-T12-21009C (EV)	ACRE
TEMPORARY DISTURBANCE	0.1547
PERMANENT DISTURBANCE	0.1023
TOTAL DISTURBANCE	0.2570

- NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 5+00 SHOWN IS EQUAL TO M-0061 STATION 4+33 ON THE EROSION AND SEDIMENT CONTROL PLAN.

- SURVEY NOTES:**
- T.B.M. SURVEY CONTROL POINT - 14' LT. OF M-0061 M.P. 0.06, ELEV. = 1204.31' (NAVD88).



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	EXISTING POWER LINE		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY

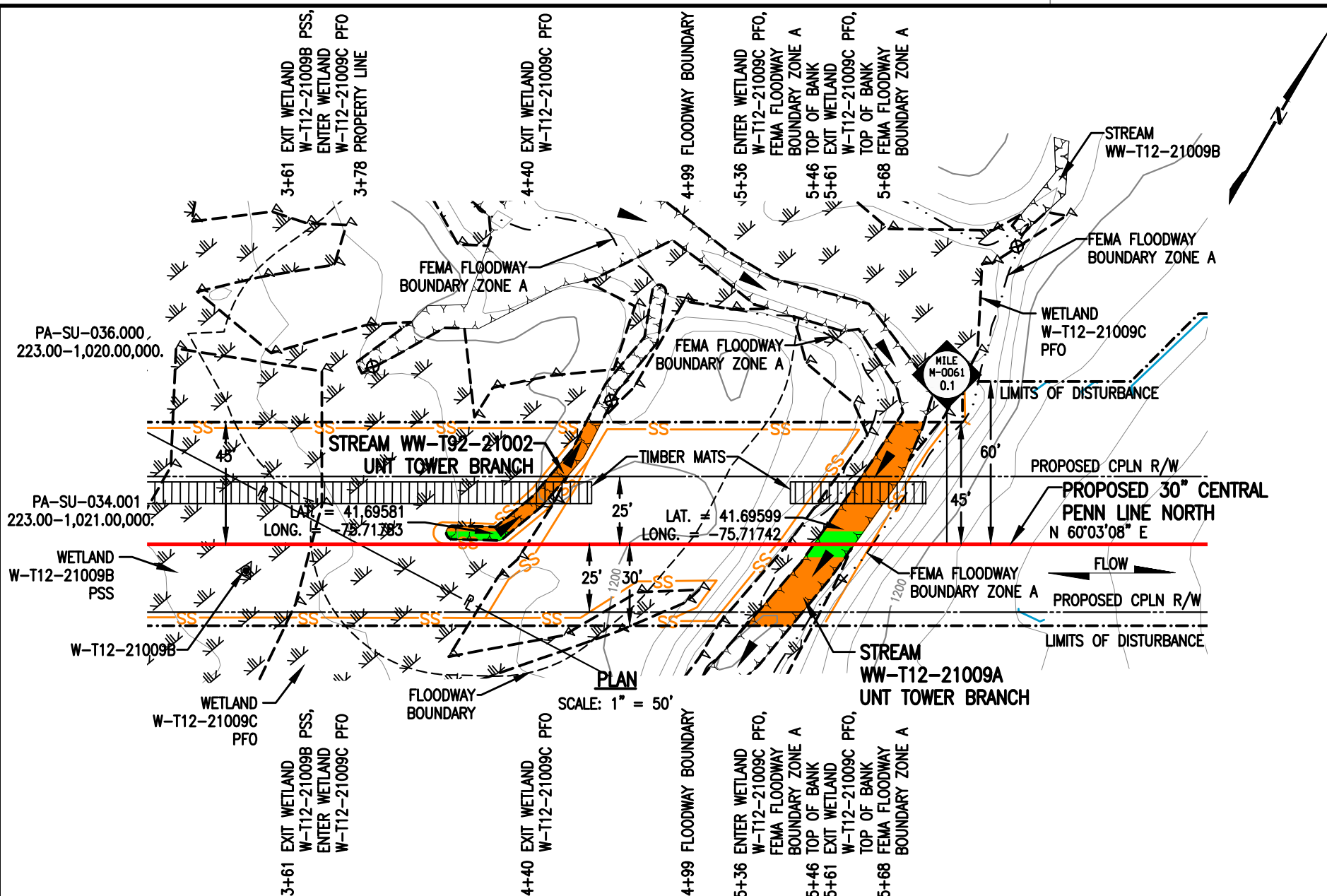
WOOD GROUP MUSTANG, INC.

	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK
	PERMANENT WETLAND IMPACT
	TEMPORARY WETLAND IMPACT

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T12-21009B @ M-0061 M.P. 0.05
AND W-T12-21009C @ M-0061 M.P. 0.06
LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

Williams

DRAWING NO.	REFERENCE TITLE											
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	PGM	DATE:	03/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR	MJH	CHECKED BY:	ML	DATE:	04/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR	MJH	APPROVED BY:	MJH	DATE:	04/17/15	DRAWING NUMBER:	24-1601-70-20-A/M-0061-0.03-02 SHEET 1
2	10/06/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR	MJH	IWO:	1161481	DATE:	10/13/2016	7:42am	OF 1



STREAMS DISTURBANCE:

STREAM WW-T92-21002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0067
PERMANENT STREAM DISTURBANCE	0.0017
TOTAL STREAM DISTURBANCE	0.0084
TEMPORARY FLOODWAY DISTURBANCE	0.0847
PERMANENT FLOODWAY DISTURBANCE	0.0135
TOTAL FLOODWAY DISTURBANCE	0.0982

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	15.27
STREAM LENGTH	71.47

STREAM WW-T12-21009A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0219
PERMANENT STREAM DISTURBANCE	0.0034
TOTAL STREAM DISTURBANCE	0.0253
TEMPORARY FLOODWAY DISTURBANCE	0.0079
PERMANENT FLOODWAY DISTURBANCE	0.0015
TOTAL FLOODWAY DISTURBANCE	0.0094

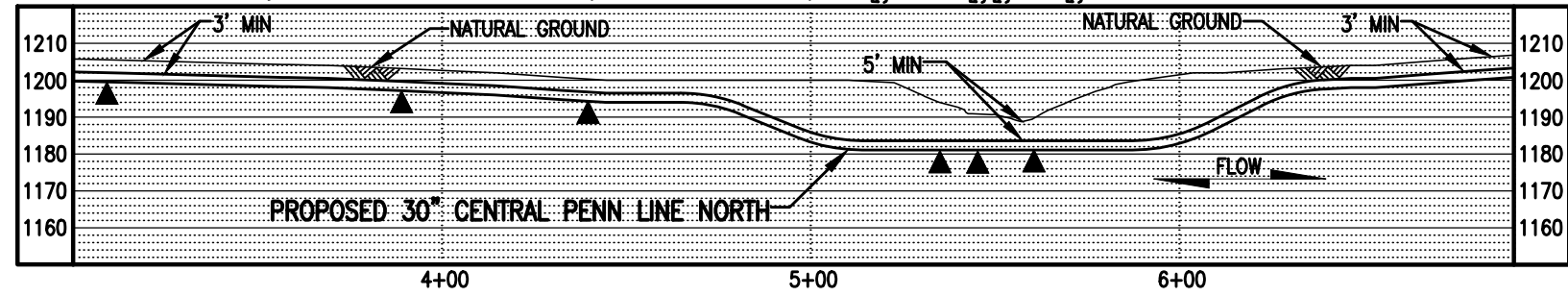
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	15.00
STREAM LENGTH	86.20

GENERAL NOTES:

1. STREAM WW-T92-21002 DOES NOT CROSS PROPOSED PIPELINE. STREAM WILL BE MATTED DURING CONSTRUCTION.
2. STREAM CROSSING METHOD FOR WW-T12-21009A SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
3. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
4. STATION 5+00 SHOWN IS EQUAL TO M-0061 STATION 4+33 ON THE EROSION AND SEDIMENT CONTROL PLAN.

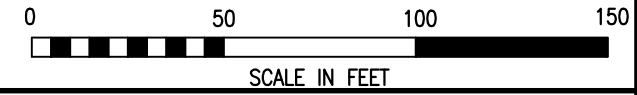
SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 14' LT. OF M-0061 M.P. 0.06, ELEV. = 1204.31' (NAVD88).



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

THIS DRAWING SUPERCEDES 24-1601-70-09-A/M-0061-0.09-01



LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- PROPERTY LINE
- - - FOREIGN PIPELINE
- - - WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

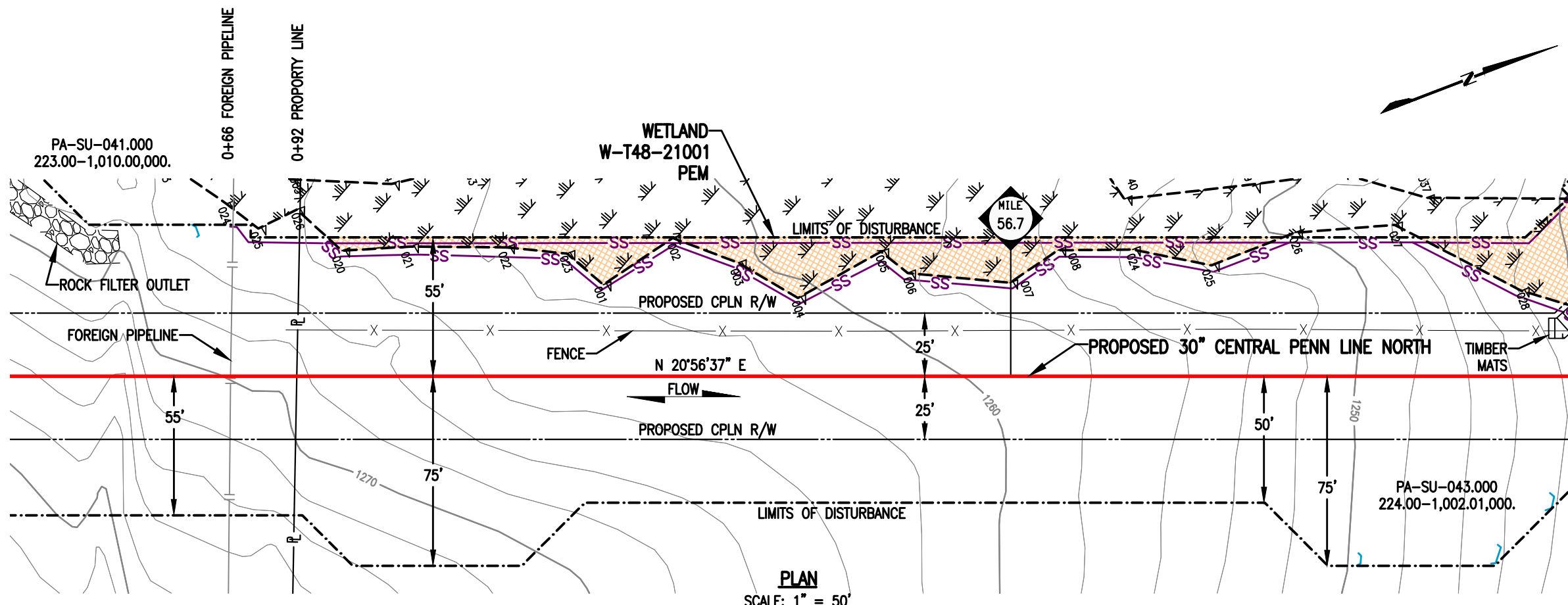
- ▲ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ UPLAND DATA POINT
- ☼ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.	REFERENCE TITLE	TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC	
		WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS	
		ATLANTIC SUNRISE PROJECT	
		PROPOSED 30" CENTRAL PENN LINE NORTH	
		STREAM CROSSINGS WW-T92-21002 @ M-0061 M.P. 0.07	
		& WW-T12-21009A @ M-0061 M.P. 0.09	
		LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA	
		DRAWN BY: PGM	DATE: 03/06/15
		CHECKED BY: ML	DATE: 04/13/15
		APPROVED BY: MJH	DATE: 04/07/15
		W.C. NO: 1161481	ISSUED FOR BID:
		NO. DATE BY	ISSUED FOR CONSTRUCTION:
		0 07/31/15 TL	REVISION: 2
		1 02/03/16 TL	DRAWING NUMBER: 24-1601-70-09-A/M-0061-0.09-02
		2 10/06/16 KB	7:53am 10/13/2016 t2le OF 1

WETLAND DISTURBANCE:

WETLAND W-T48-21001 (EV)	ACRE
TEMPORARY DISTURBANCE	0.2116
PERMANENT DISTURBANCE	0.0185
TOTAL DISTURBANCE	0.2301



PLAN
SCALE: 1" = 50'

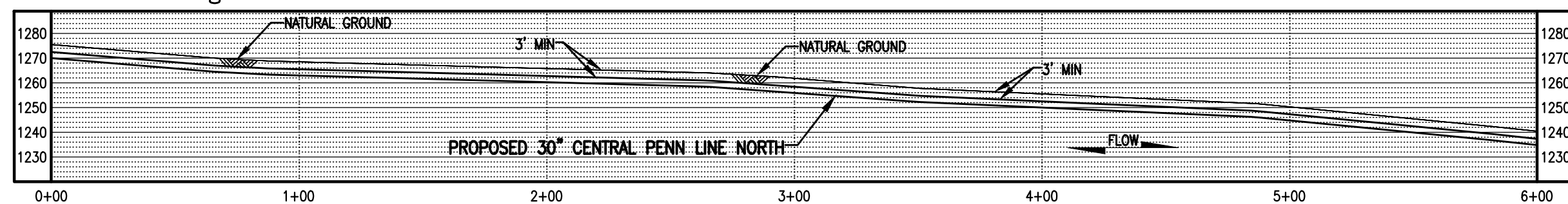
MATCH LINE SEE SHEET 2 OF 2

NOTES:

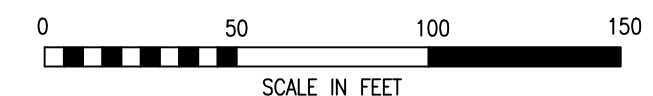
1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 2990+01 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 60' RT. OF M.P. 56.77, ELEV. = 1228.22' (NAVD88).

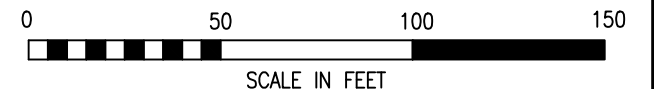
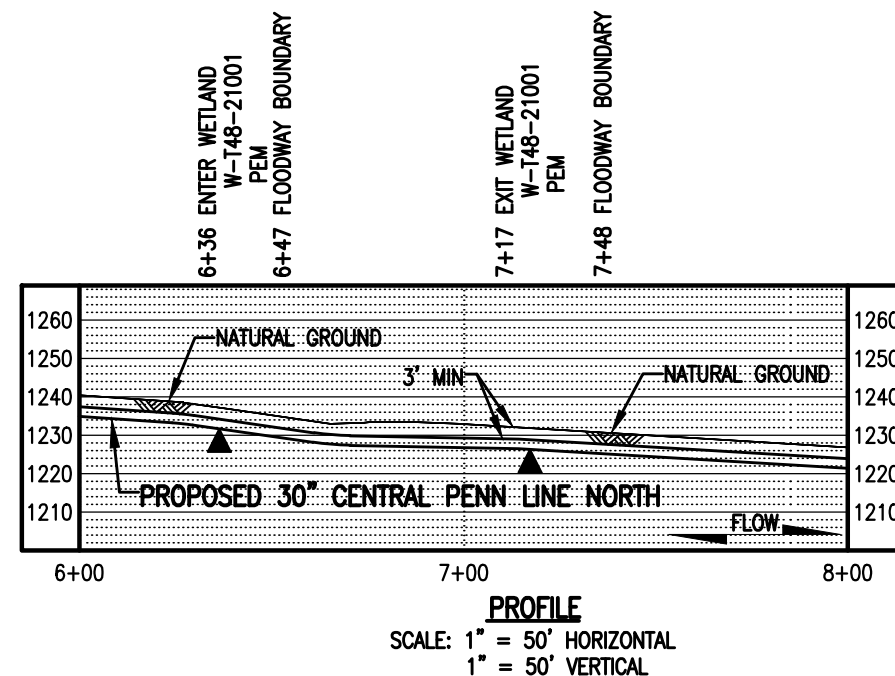
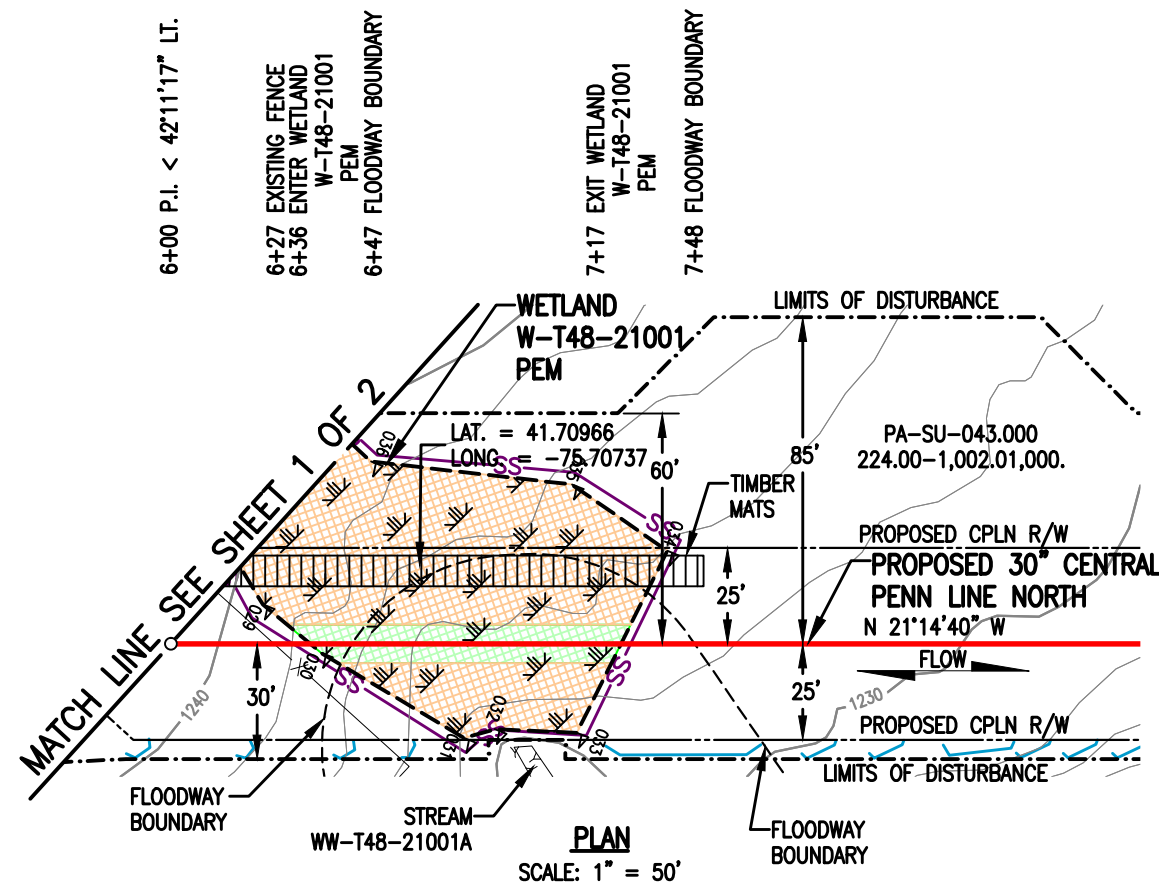


PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND				
PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	12" SEDIMENT BARRIER	PERMANENT WETLAND IMPACT	
EXISTING PIPELINES	PHOTO DATA POINT	18" SEDIMENT BARRIER		
EXISTING TGPL R/W	WETLAND DATA POINT	24" SEDIMENT BARRIER		
LIMITS OF DISTURBANCE	UPLAND DATA POINT	32" SEDIMENT BARRIER		
PROPOSED CPLN R/W	WELL POINT	TOP OF BANK		TEMPORARY WETLAND IMPACT
PROPERTY LINE	TRENCH PLUG	PERMANENT WETLAND IMPACT		
FOREIGN PIPELINE	WATERBODY	FLOODWAY BOUNDARY		
WETLAND AREA	TREE LINE	FEMA FLOODWAY BOUNDARY		
EXISTING POWER LINE				
EXISTING FENCE				

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH WETLAND CROSSING W-T48-21001 © M.P. 56.68 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	10/06/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: THL		DATE: 06/21/16	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: CLR		DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0	
APPROVED BY: MJH		DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-20-A/56.68-01	SHEET 1	
WC: 1161481		9/27/2016	1161481	OF 2	



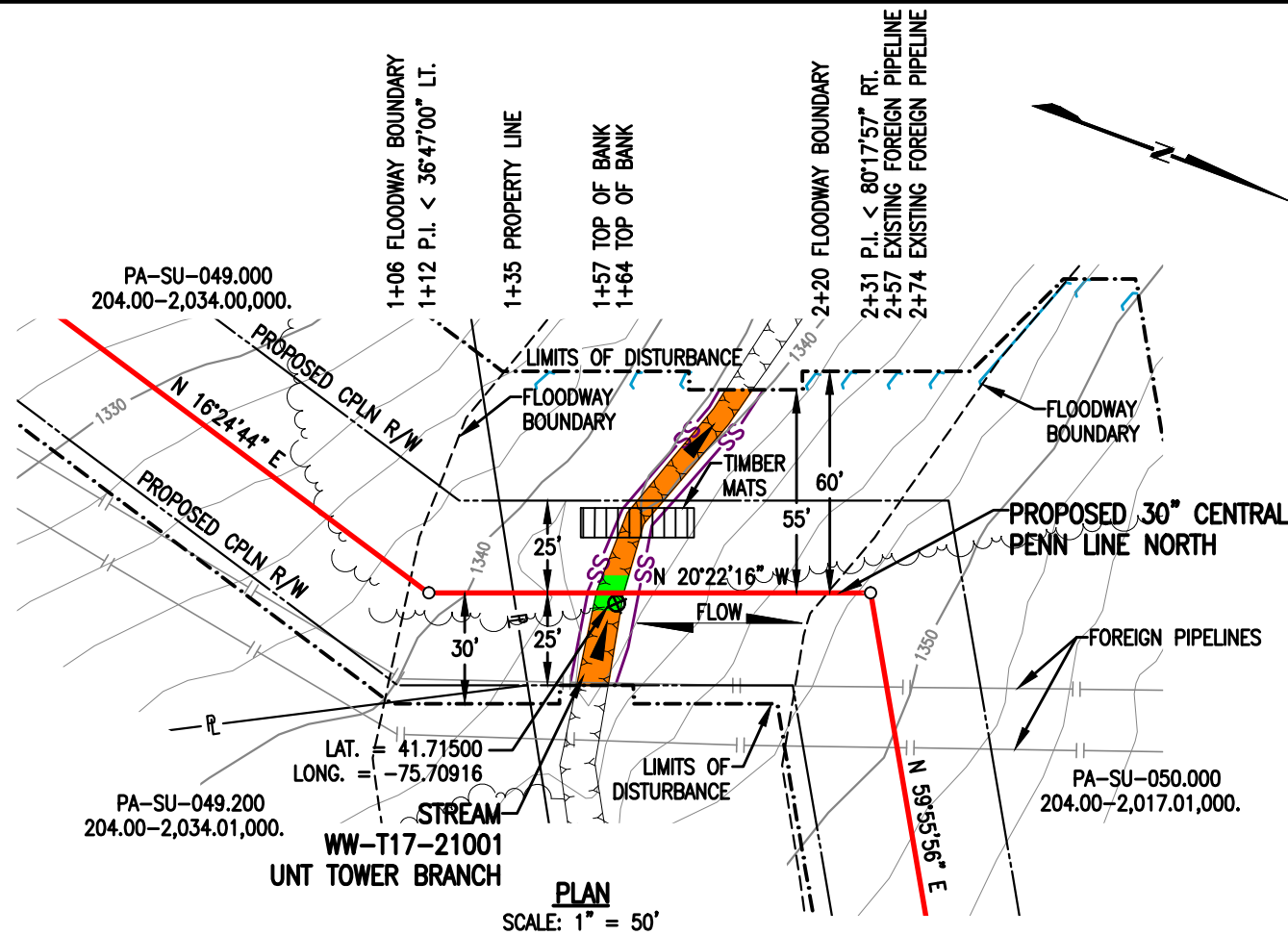
LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	EXISTING POWER LINE		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY
	12" SEDIMENT BARRIER		PERMANENT WETLAND IMPACT
	18" SEDIMENT BARRIER		TEMPORARY WETLAND IMPACT
	24" SEDIMENT BARRIER		
	32" SEDIMENT BARRIER		
	TOP OF BANK		

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/06/16	KB	ISSUED FOR PADEP SUBMITTAL #2
W.O. NO.	CHK.	APP.	
1161481	CLR	MJH	

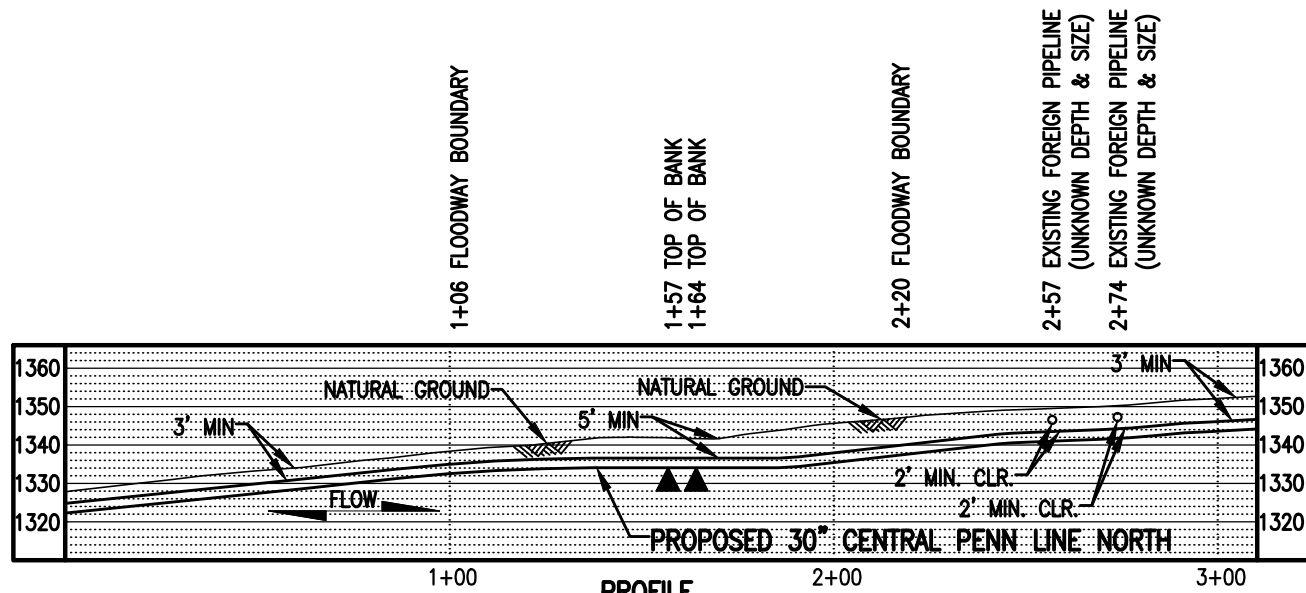
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSING W-T48-21001
© M.P. 56.68
LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: THL	DATE: 06/21/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1601-70-20-A/56.68-01	SHEET 2
WO: 1161481		7:07am 9/27/2016 ltrc.jal	OF 2

K:\103646-CPLN\Mapping\Wetlands\Revised 105\24-1601-70-20-A_56.68-01.dwg



PLAN
SCALE: 1" = 50'



PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

STREAM DISTURBANCE:

STREAM WW-T17-21001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0116
PERMANENT STREAM DISTURBANCE	0.0017
TOTAL STREAM DISTURBANCE	0.0133
TEMPORARY FLOODWAY DISTURBANCE	0.2093
PERMANENT FLOODWAY DISTURBANCE	0.0245
TOTAL FLOODWAY DISTURBANCE	0.2338

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	7.38
STREAM LENGTH	94.02

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 3018+17 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 31' RT. OF M.P. 57.16, ELEV. = 1347.92' (NAVD88).

THIS DRAWING SUPERCEDES 24-1601-70-09-A/57.16-01



LEGEND

- PROPOSED 30" CENTRAL PENN LINE NORTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLN R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ▲ WETLAND DATA POINT
- ⊗ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- WATERBODY
- TREE LINE
- - - FLOODWAY BOUNDARY
- - - FEMA FLOODWAY BOUNDARY

- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — Y — Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC	
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T17-21001 © M.P. 57.15 LENOX TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	07/31/15	TL	ISSUED FOR PADEP 105 PERMIT	1161481	CLR MJH
1	02/03/16	TL	ISSUED FOR INTERNAL USE	1161481	CLR MJH
2	10/06/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161481	CLR MJH
DRAWN BY: LL		DATE: 01/30/15		ISSUED FOR BID:	
CHECKED BY: ML		DATE: 03/07/15		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 04/17/15		DRAWING NUMBER: 24-1601-70-09-A/57.16-02 SHEET 1	
IWO: 1161481				SCALE: 1" = 50'	
				REVISION: 2	
				DRAWING NUMBER: 8401am 10/13/2016 t2le OF 1	