



Transcontinental Gas Pipe Line Company LLC
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
WATER OBSTRUCTION AND
ENCROACHMENT PERMIT IMPACT MAPS
M-0194-M.P. 1.13 TO M.P. 90.99 AND
M.P. 91.75 TO M.P. 92.28
NORTHUMBERLAND COUNTY, PENNSYLVANIA

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-20-A/M-0194-1.13-02	NOTES SHEET	1 OF 3	1
24-1600-70-14-A/M-0194-1.13-02	PROJECT LOCATION KEY MAP	2 OF 3	3
24-1600-70-14-A/M-0194-1.13-02	PROJECT LOCATION KEY MAP	3 OF 3	3
24-1600-70-09-A/AR-NO-075-01	WW-T44-10002	1 OF 4	0
24-1600-70-09-A/AR-NO-075-01	WW-T44-10003	2 OF 4	0
24-1600-70-09-A/AR-NO-075-01	WW-T44-10004	3 OF 4	0
24-1600-70-09-A/AR-NO-075-01	WW-T44-10004	4 OF 4	0
24-1600-70-09-A/83.39-02	WW-T01-10001 & WW-T44-10002C	1 OF 1	1
24-1600-70-20-A/83.42-01	W-T18-10001	1 OF 2	0
24-1600-70-20-A/83.42-01	W-T18-10001	2 OF 2	0
24-1600-70-09-A/AR-NO-076.1-01	WW-T68-10001	1 OF 2	0
24-1600-70-09-A/AR-NO-076.1-01	WW-T68-10002	2 OF 2	0
24-1600-70-20-A/AR-NO-076.1-01	W-T68-10001	1 OF 1	0
24-1600-70-09-A/85.45-02	WW-T04-10002	1 OF 1	1
24-1600-70-09-A/M-0240-0.20-01	WW-T04-10001	1 OF 1	0
24-1600-70-09-A/AR-NO-078.1-01	WW-T04-10001	1 OF 3	0
24-1600-70-09-A/AR-NO-078.1-01	WW-T04-10001	2 OF 3	0
24-1600-70-09-A/AR-NO-078.1-01	WW-T04-10001	3 OF 3	0

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-09-A/86.59-02	WW-T18-10002	1 OF 1	2
24-1600-70-09-A/M-0372-0.11-01	WW-T68-11001 & WW-T68-1101B	1 OF 1	0
24-1600-70-09-A/AR-NO-082-1-01	WW-T58-11001A	1 OF 3	0
24-1600-70-09-A/AR-NO-082-1-01	WW-T58-11001A	2 OF 3	0
24-1600-70-09-A/AR-NO-082-1-01	WW-T58-11001A	3 OF 3	0
24-1600-70-09-A/M-0235-1.14-01	WW-T58-11001	1 OF 1	0
24-1600-70-20-A/88.81-02	W-T44-11001C	1 OF 1	2
24-1600-70-09-A/88.95-02	WW-T44-11002	1 OF 1	2
24-1600-70-20-A/89.08-01	W-T44-11001A-2 & W-T44-11001A	1 OF 1	0
24-1600-70-09-A/91.74-01	WW-T47-11002	1 OF 1	1
24-1600-70-20-A/91.77-01	W-T49-11001	1 OF 1	0
24-1600-70-09-A/M-0437-0.03-01	WW-T44-11001A & WW-T44-11001C	1 OF 1	0
24-1600-70-20-A/M-0437-0.05-01	W-T49-11003	1 OF 1	0

ISSUED FOR PADEP SUBMITTAL #2
 ISSUED DATE: OCTOBER 27, 2016

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



MAW JAW HWANG
 PA. PE NO. PE077841



Transcontinental Gas Pipe Line Company LLC
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M.P. 91.75 TO M.P. 92.28
NORTHUMBERLAND COUNTY, PENNSYLVANIA

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-20-A/M-0194-1.13-02	NOTES SHEET	1 OF 3	1
24-1600-70-14-A/M-0194-1.13-02	PROJECT LOCATION KEY MAP	2 OF 3	3
24-1600-70-14-A/M-0194-1.13-02	PROJECT LOCATION KEY MAP	3 OF 3	3
24-1600-70-09-A/AR-NO-075-01	WW-T44-10002	1 OF 4	0
24-1600-70-09-A/AR-NO-075-01	WW-T44-10003	2 OF 4	0
24-1600-70-09-A/AR-NO-075-01	WW-T44-10004	3 OF 4	0
24-1600-70-09-A/AR-NO-075-01	WW-T44-10004	4 OF 4	0
24-1600-70-09-A/83.39-02	WW-T01-10001 & WW-T44-10002C	1 OF 1	1
24-1600-70-20-A/83.42-01	W-T18-10001	1 OF 2	0
24-1600-70-20-A/83.42-01	W-T18-10001	2 OF 2	0
24-1600-70-09-A/AR-NO-076.1-01	WW-T68-10001	1 OF 2	0
24-1600-70-09-A/AR-NO-076.1-01	WW-T68-10002	2 OF 2	0
24-1600-70-20-A/AR-NO-076.1-01	W-T68-10001	1 OF 1	0
24-1600-70-09-A/85.45-02	WW-T04-10002	1 OF 1	1
24-1600-70-09-A/M-0240-0.20-01	WW-T04-10001	1 OF 1	0
24-1600-70-09-A/AR-NO-078.1-01	WW-T04-10001	1 OF 3	0
24-1600-70-09-A/AR-NO-078.1-01	WW-T04-10001	2 OF 3	0
24-1600-70-09-A/AR-NO-078.1-01	WW-T04-10001	3 OF 3	0

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-09-A/86.59-02	WW-T18-10002	1 OF 1	2
24-1600-70-09-A/M-0372-0.11-01	WW-T68-11001 & WW-T68-1101B	1 OF 1	0
24-1600-70-09-A/AR-NO-082-1-01	WW-T58-11001A	1 OF 3	0
24-1600-70-09-A/AR-NO-082-1-01	WW-T58-11001A	2 OF 3	0
24-1600-70-09-A/AR-NO-082-1-01	WW-T58-11001A	3 OF 3	0
24-1600-70-09-A/M-0235-1.14-01	WW-T58-11001	1 OF 1	0
24-1600-70-20-A/88.81-02	W-T44-11001C	1 OF 1	2
24-1600-70-09-A/88.95-02	WW-T44-11002	1 OF 1	2
24-1600-70-20-A/89.08-01	W-T44-11001A-2 & W-T44-11001A	1 OF 1	0
24-1600-70-09-A/91.74-01	WW-T47-11002	1 OF 1	1
24-1600-70-20-A/91.77-01	W-T49-11001	1 OF 1	0
24-1600-70-09-A/M-0437-0.03-01	WW-T44-11001A & WW-T44-11001C	1 OF 1	0
24-1600-70-20-A/M-0437-0.05-01	W-T49-11003	1 OF 1	0

ISSUED DATE: OCTOBER 27, 2016

24-1600-70-09-A_Northumberland-PKG
 Issued for PADEP Submittal #2
 Rev. 3
 10-27-2016

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 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 24-1600-70-20-A/M-0194-1.13-01

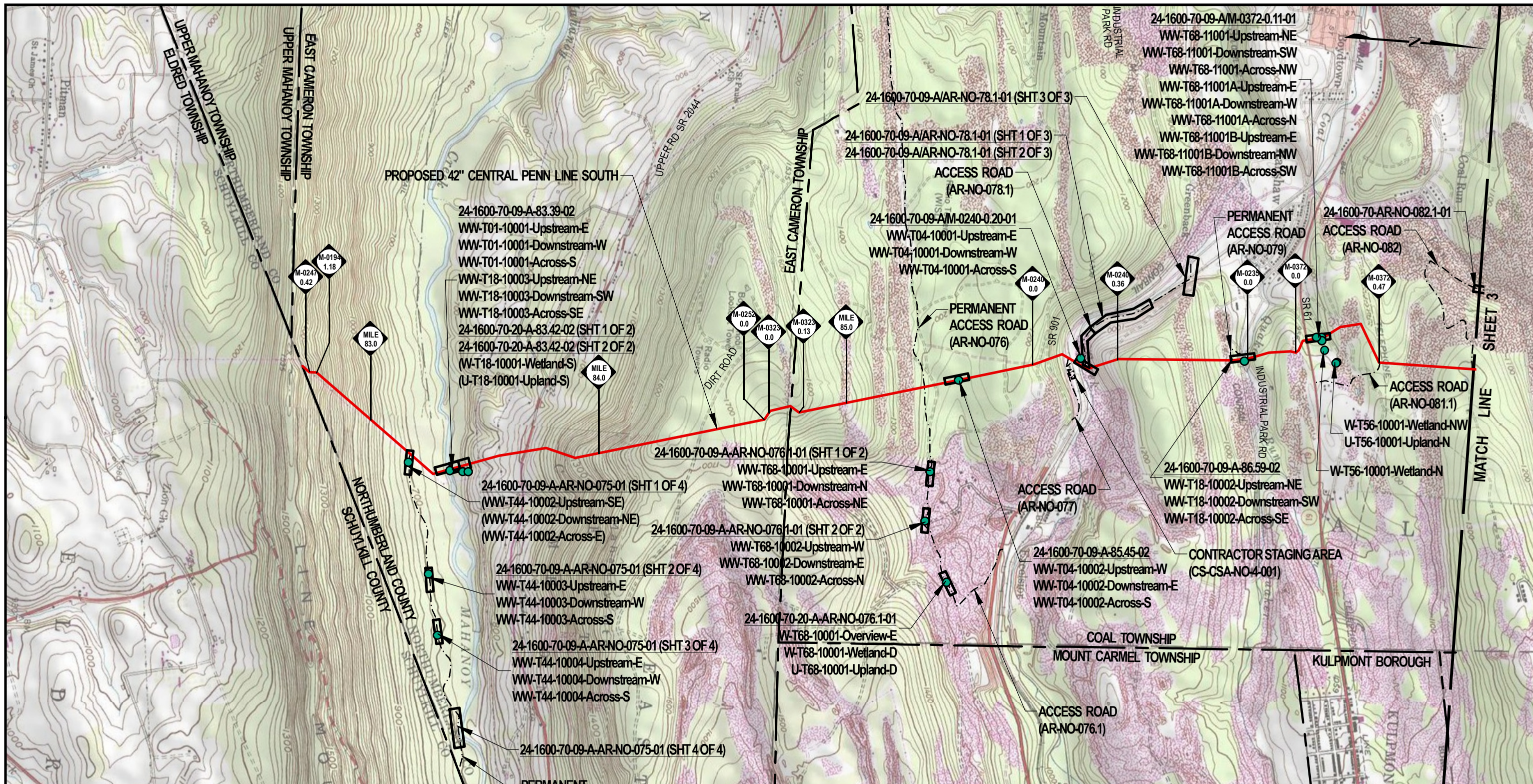


DRAWING NO.		REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	
0	07/30/15	CR	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	
1	10/27/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
NOTES SHEET
M.P. M-0194-1.13 TO M.P. 90.99 & M.P. 91.75 TO M.P. 92.28
NORTHUMBERLAND COUNTY, PENNSYLVANIA

DRAWN BY: MBS	DATE: 05/11/15	ISSUED FOR BID:	SCALE: N/A
CHECKED BY: JM	DATE: 05/11/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 05/11/15	DRAWING NUMBER: 24-1600-70-20-A/M-0194-1.13-02	SHEET 1
WC: 1161503		10/25/2016 a1dumo.g	OF 3

K:\03643-CPLS\Maping\Waterbodies\CPLS_PAW\Northumberland\01_CPLS_NORTHUMBERLAND_NOTES.dwg



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 25-1600-70-20-A/M-0194-1.13

LEGEND

- PHOTO POINT
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- 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:
 40076-F5 (VALLEY VIEW, PA)
 40076-F4 (TREMONT, PA)
 40076-G4 (MOUNT CARMEL, PA)
 40076-G5 (SHAMOKIN, PA)

WOOD GROUP MUSTANG

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

DRAWING NO.	REFERENCE TITLE

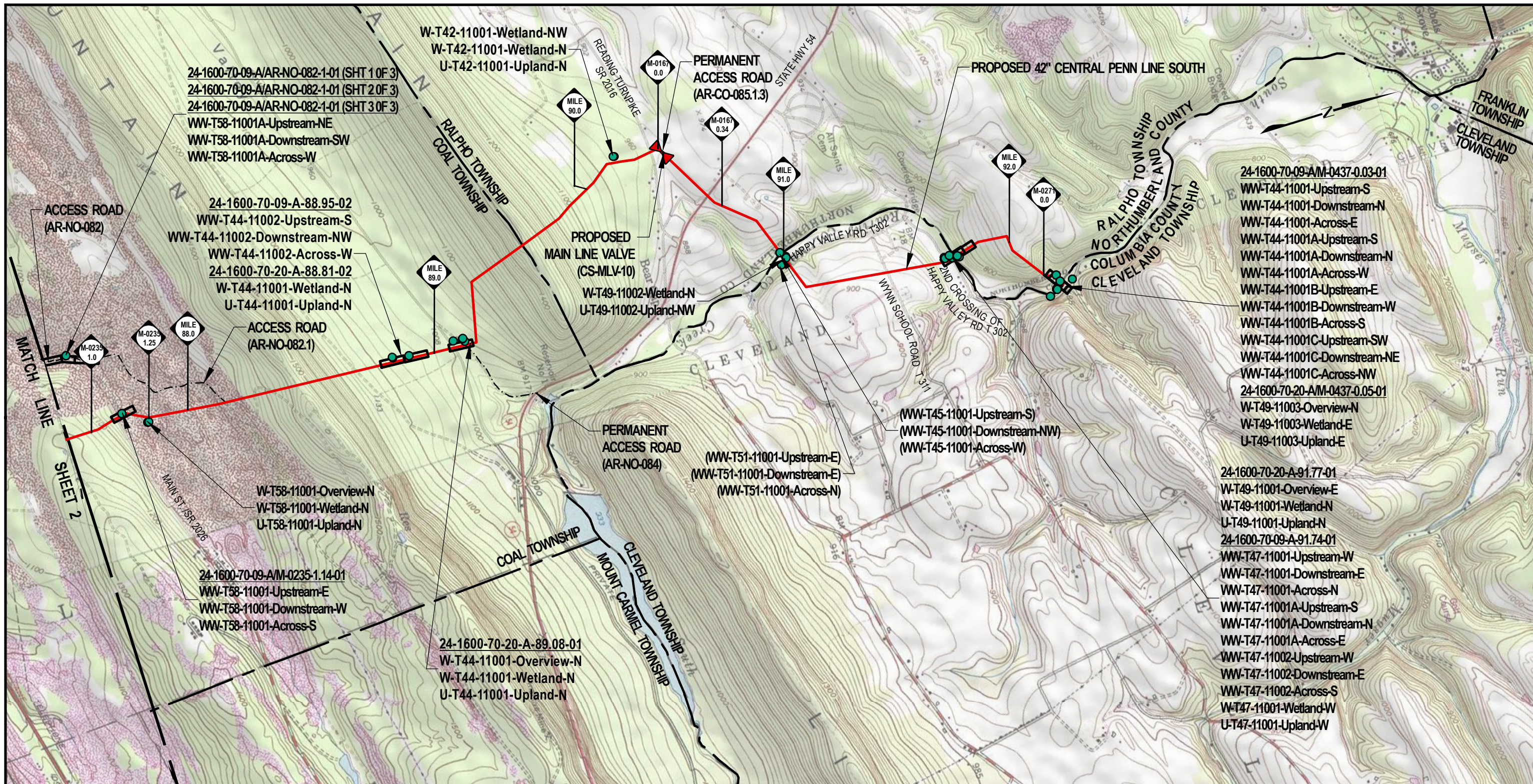
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	8/04/15	CRW	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	11/20/15	JTN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
2	02/03/16	JTN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
3	10/27/16	JTN	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
TOPOGRAPHICAL PROJECT LOCATION KEY MAP
M-0247-M.P.0.37 TO M.P.90.99 & M.P.91.75 TO M.P.92.28
NORTHUMBERLAND COUNTY, PENNSYLVANIA

Williams

W.O. NO. 1161503	DRAWN BY: CRW	DATE: 5/22/15	ISSUED FOR BID:	SCALE: 1"=2,000'
	CHECKED BY: CLR	DATE: 5/22/15	ISSUED FOR CONSTRUCTION:	REVISION: 3
	APPROVED BY: MJH	DATE: 5/22/15	DRAWING NUMBER: 25-1600-70-14-A/M-0194-1.13	SHEET 2 OF 3

8:53 AM 9/30/2016



24-1600-70-09-A/AR-NO-082-1-01 (SHT 1 OF 3)
 24-1600-70-09-A/AR-NO-082-1-01 (SHT 2 OF 3)
 24-1600-70-09-A/AR-NO-082-1-01 (SHT 3 OF 3)

WW-T58-11001A-Upstream-NE
 WW-T58-11001A-Downstream-SW
 WW-T58-11001A-Across-W

24-1600-70-09-A-88.95-02
 WW-T44-11002-Upstream-S
 WW-T44-11002-Downstream-NW
 WW-T44-11002-Across-W

24-1600-70-20-A-88.81-02
 W-T44-11001-Wetland-N
 U-T44-11001-Upland-N

ACCESS ROAD (AR-NO-082.1)

W-T58-11001-Overview-N
 W-T58-11001-Wetland-N
 U-T58-11001-Upland-N

24-1600-70-09-A/M-0235-1.14-01
 WW-T58-11001-Upstream-E
 WW-T58-11001-Downstream-W
 WW-T58-11001-Across-S

24-1600-70-20-A-89.08-01
 W-T44-11001-Overview-N
 W-T44-11001-Wetland-N
 U-T44-11001-Upland-N

W-T42-11001-Wetland-NW
 W-T42-11001-Wetland-N
 U-T42-11001-Upland-N

PERMANENT ACCESS ROAD (AR-CO-085.1.3)

PROPOSED MAIN LINE VALVE (CS-MLV-10)

W-T49-11002-Wetland-N
 U-T49-11002-Upland-NW

PERMANENT ACCESS ROAD (AR-NO-084)

(WW-T51-11001-Upstream-E)
 (WW-T51-11001-Downstream-E)
 (WW-T51-11001-Across-N)

(WW-T45-11001-Upstream-S)
 (WW-T45-11001-Downstream-NW)
 (WW-T45-11001-Across-W)

24-1600-70-09-A/M-0437-0.03-01
 WW-T44-11001-Upstream-S
 WW-T44-11001-Downstream-N
 WW-T44-11001-Across-E

WW-T44-11001A-Upstream-S
 WW-T44-11001A-Downstream-N
 WW-T44-11001A-Across-W

WW-T44-11001B-Upstream-E
 WW-T44-11001B-Downstream-W
 WW-T44-11001B-Across-S

WW-T44-11001C-Upstream-SW
 WW-T44-11001C-Downstream-NE
 WW-T44-11001C-Across-NW

24-1600-70-20-A/M-0437-0.05-01
 W-T49-11003-Overview-N
 W-T49-11003-Wetland-E
 U-T49-11003-Upland-E

24-1600-70-20-A-91.77-01
 W-T49-11001-Overview-E
 W-T49-11001-Wetland-N
 U-T49-11001-Upland-N

24-1600-70-09-A-91.74-01
 WW-T47-11001-Upstream-W
 WW-T47-11001-Downstream-E
 WW-T47-11001-Across-N

WW-T47-11001A-Upstream-S
 WW-T47-11001A-Downstream-N
 WW-T47-11001A-Across-E

WW-T47-11002-Upstream-W
 WW-T47-11002-Downstream-E
 WW-T47-11002-Across-S

W-T47-11001-Wetland-W
 U-T47-11001-Upland-W

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LEGEND

- PHOTO POINT
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINE
- FENCE LINE
- ACCESS ROADS
- COUNTY/TOWNSHIP BOUNDARY
- CONTRACTOR STAGING AREA
- CONTRACTOR YARD/PIPE YARD
- SITE SPECIFIC INDEX SHEET

DRG 7.5 MIN. QUAD MAP:
 40076-G5 (SHAMOKIN, PA)
 40076-G4 (MOUNT CARMEL, PA)
 40076-H4 (CATAWISSA, PA)

WOOD GROUP MUSTANG

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

DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	8/04/15	CRW	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	11/20/15	JTN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
2	02/03/16	JTN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
3	10/27/16	JTN	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

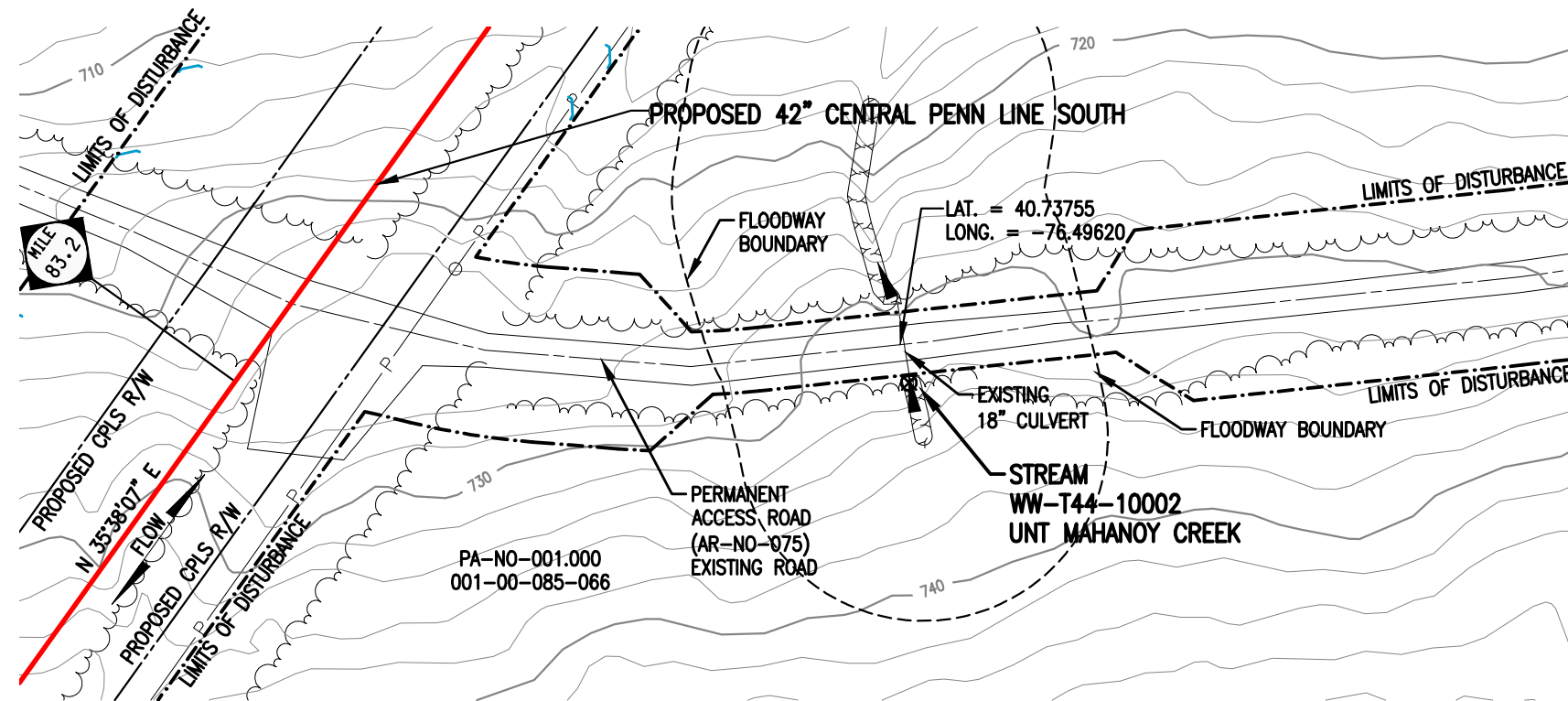
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
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TOPOGRAPHICAL PROJECT LOCATION KEY MAP
M-0247-M.P.0.37 TO M.P.90.99 & M.P.91.75 TO M.P.92.28
NORTHUMBERLAND COUNTY, PENNSYLVANIA

DRAWN BY: CRW	DATE: 5/22/15	ISSUED FOR BID:	SCALE: 1"=2,000'
CHECKED BY: CLR	DATE: 5/22/15	ISSUED FOR CONSTRUCTION:	REVISION: 3
APPROVED BY: MJH	DATE: 5/22/15	DRAWING NUMBER: 25-1600-70-14-A/M-0194-1.13	SHEET 3 OF 3
WO: 1161503		9:05 AM 9/30/2016	

STREAM DISTURBANCE FOR ACCESS ROAD AR-NO-075:

STREAM WW-T44-10002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0098
PERMANENT FLOODWAY DISTURBANCE	0.0344
TOTAL FLOODWAY DISTURBANCE	0.0442

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



PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM IS BEING CROSSED BY EXISTING CULVERT.
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.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 24.3' RT. OF M.P. 83.20, ELEV. = 724.86' (NAVD88).



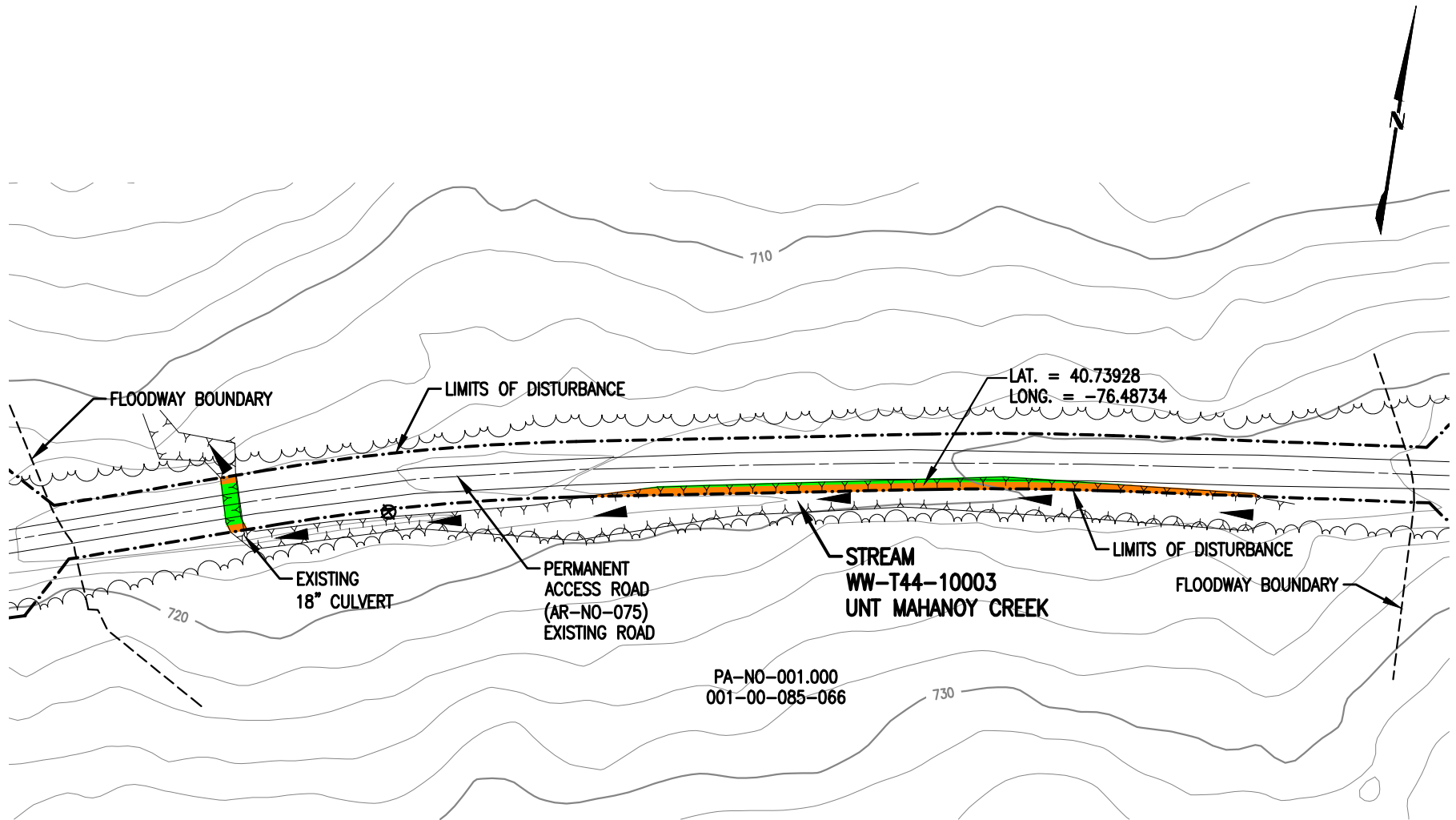
LEGEND			
PROPOSED 42" CENTRAL PENN LINE SOUTH	WETLAND FLAGS	12" SEDIMENT BARRIER	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	18" SEDIMENT BARRIER	
EXISTING TGPL R/W	WETLAND DATA POINT	24" SEDIMENT BARRIER	
LIMITS OF DISTURBANCE	UPLAND DATA POINT	32" SEDIMENT BARRIER	
PROPOSED CPLS R/W	WELL POINT	PERMANENT STREAM IMPACT	
PROPERTY LINE	TRENCH PLUG	TEMPORARY STREAM IMPACT	
FOREIGN PIPELINE	WATERBODY		
WETLAND AREA	TREE LINE		
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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T44-10002 M.P. 83.21 EAST CAMERON TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA 			
NO.		DATE					
0		10/27/16		TL		ISSUED FOR PADEP SUBMITTAL #2	
W.O. NO.		CHK.		APP.		DRAWN BY: TL	
1161503		CLR		MJH		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: 24-1600-70-09-A/AR-NO-075-01		SHEET 1		WC: 1161503		10/11/2016 01traha	
K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_AR-NO-075-01.dwg		OF 4					

STREAM DISTURBANCE FOR ACCESS ROAD AR-NO-075:

STREAM WW-T44-10003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0095
PERMANENT STREAM DISTURBANCE	0.0054
TOTAL STREAM DISTURBANCE	0.0149
TEMPORARY FLOODWAY DISTURBANCE	0.0308
PERMANENT FLOODWAY DISTURBANCE	0.1359
TOTAL FLOODWAY DISTURBANCE	0.1667

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	18.44
STREAM LENGTH	160.15



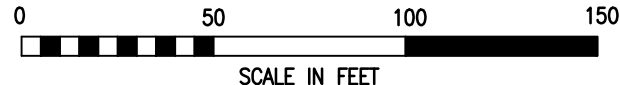
PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM IS BEING CROSSED BY EXISTING CULVERT.
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.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 24.3' RT. OF M.P. 83.20, ELEV. = 724.86' (NAVD88).



LEGEND

- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- LIMITS OF DISTURBANCE
- PROPOSED CPLS R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- STREAM FLOW
- EXISTING POWER LINE
- EXISTING FENCE

WOOD GROUP MUSTANG, INC.

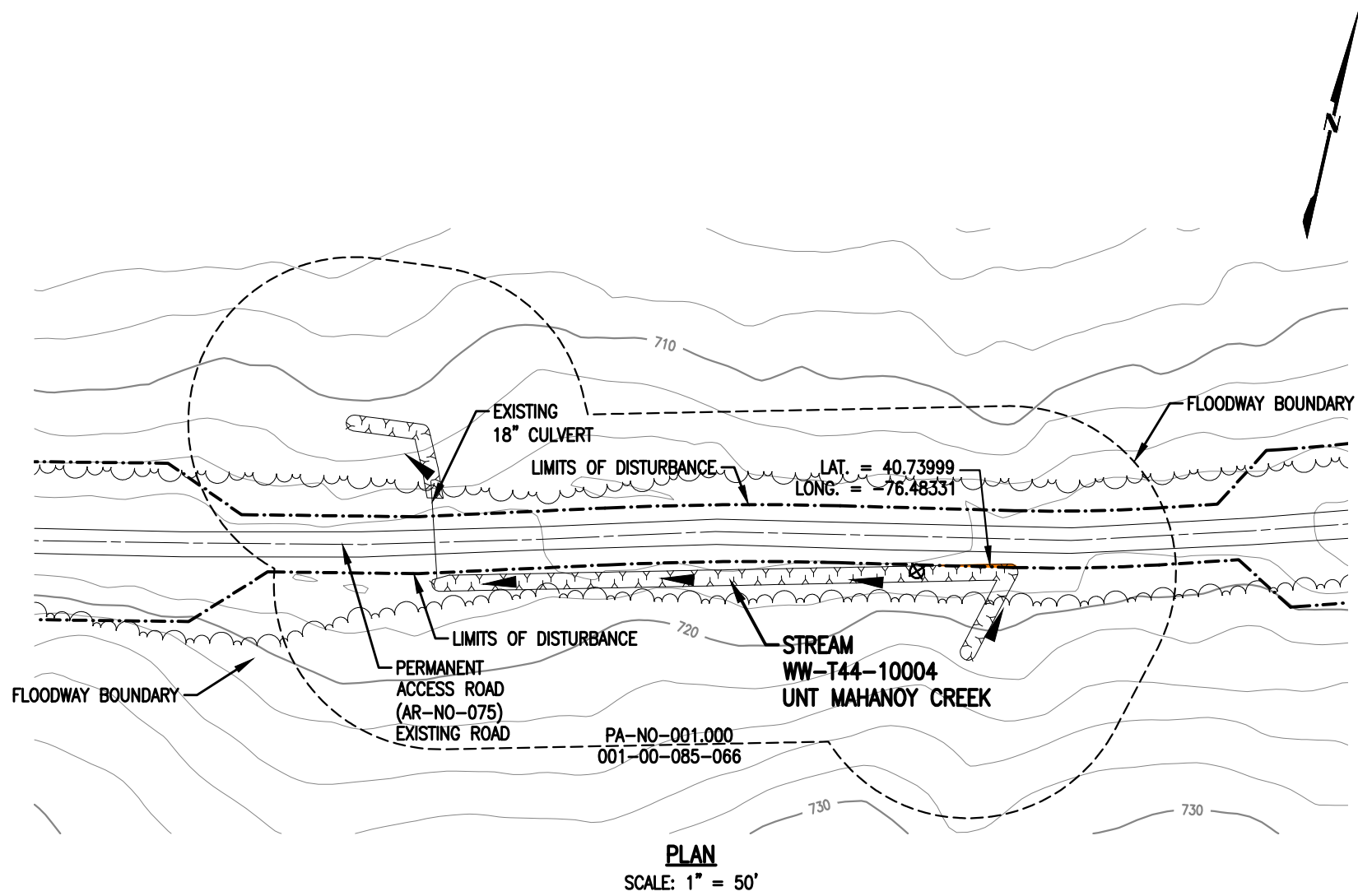
- WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- WELL POINT
- TRENCH PLUG
- WATERBODY
- TREE LINE
- FLOODWAY BOUNDARY
- FEMA FLOODWAY BOUNDARY
- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T44-10003 © M.P. 83.21 EAST CAMERON TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 06/21/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/AR-NO-075-01	SHEET 2
							WO: 1161503		10/11/2016 12:04pm	OF 4

STREAM DISTURBANCE FOR ACCESS ROAD AR-NO-075:

STREAM WW-T44-10004	ACRE
TEMPORARY STREAM DISTURBANCE	0.0003
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0003
TEMPORARY FLOODWAY DISTURBANCE	0.0274
PERMANENT FLOODWAY DISTURBANCE	0.0946
TOTAL FLOODWAY DISTURBANCE	0.1220

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	1.04
STREAM LENGTH	4.09



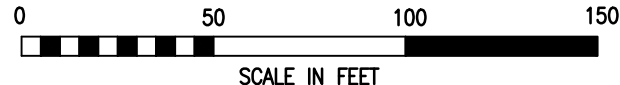
PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM IS BEING CROSSED BY EXISTING CULVERT.
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.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 24.3' RT. OF M.P. 83.20, ELEV. = 724.86' (NAVD88).



LEGEND

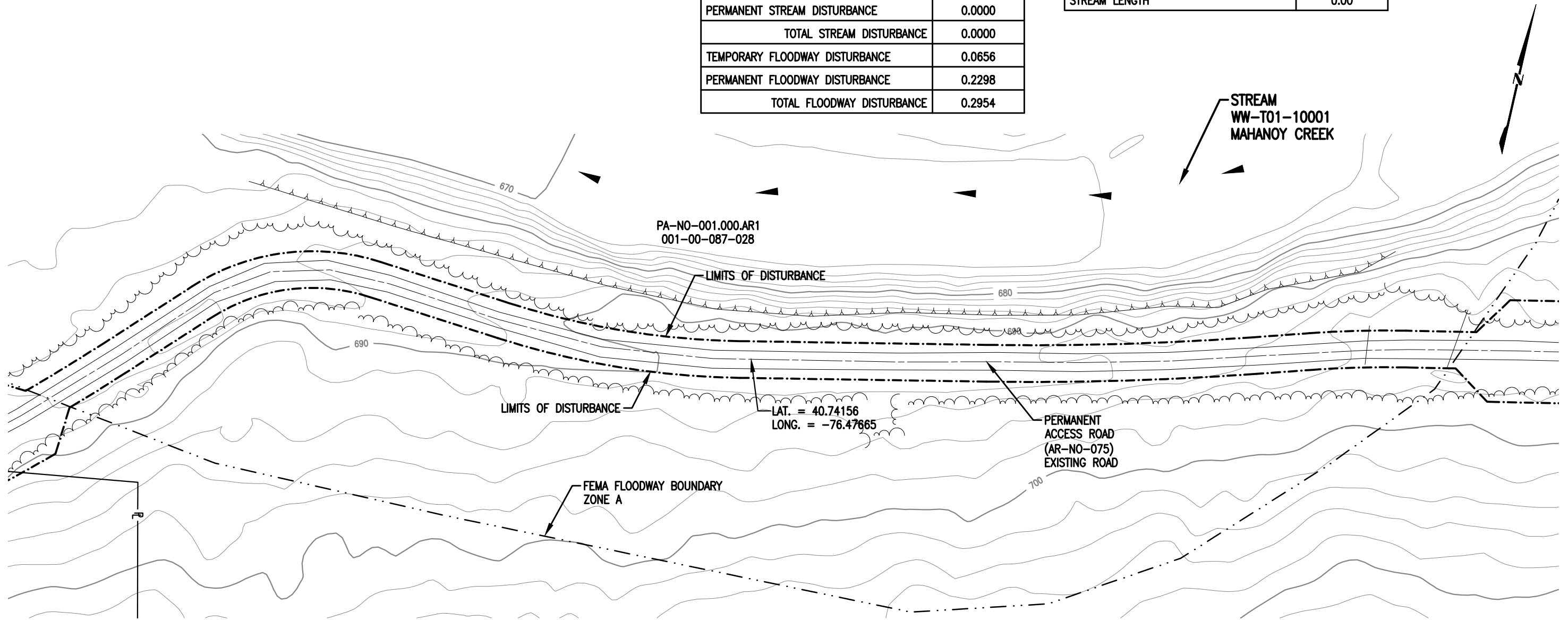
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLS R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		PERMANENT STREAM IMPACT
	FOREIGN PIPELINE		WATERBODY		TEMPORARY STREAM IMPACT
	WETLAND AREA		TREE LINE		
	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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T44-10004 © M.P. 83.21 EAST CAMERON TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL DATE: 06/21/16 ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR DATE: 07/06/16 ISSUED FOR CONSTRUCTION:	REVISION: 0
				APPROVED BY: MJH DATE: 07/06/16		DRAWING NUMBER: 24-1600-70-09-A/AR-NO-075-01 SHEET 3 OF 4		
				W.O. NUMBER: 1161503		10/11/2016 a1traha		

STREAM DISTURBANCE FOR ACCESS ROAD AR-NO-075:

STREAM FLOODWAY TO WW-T01-10001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0656
PERMANENT FLOODWAY DISTURBANCE	0.2298
TOTAL FLOODWAY DISTURBANCE	0.2954

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



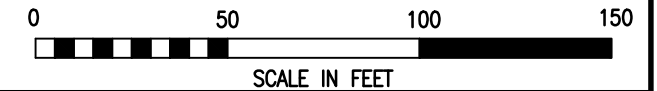
PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE.
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 24.3' RT. OF M.P. 83.20, ELEV. = 724.86' (NAVD88).



LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		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 CPLS R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		PERMANENT STREAM IMPACT
	FOREIGN PIPELINE		WATERBODY		TEMPORARY STREAM IMPACT
	WETLAND AREA		TREE LINE		
	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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T01-10001 © M.P. 83.21 EAST CAMERON TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	10/27/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: TL		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: 24-1600-70-09-A/AR-NO-075-01	SHEET 4	
WO: 1161503		10/11/2016	altraha	OF 4	

STREAM DISTURBANCE:

STREAM WW-T01-10001	ACRE
TEMPORARY STREAM DISTURBANCE	0.1990
PERMANENT STREAM DISTURBANCE	0.0219
TOTAL STREAM DISTURBANCE	0.2209
TEMPORARY FLOODWAY DISTURBANCE	0.6937
PERMANENT FLOODWAY DISTURBANCE	0.0613
TOTAL FLOODWAY DISTURBANCE	0.7550
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	95.32
STREAM LENGTH	101.31

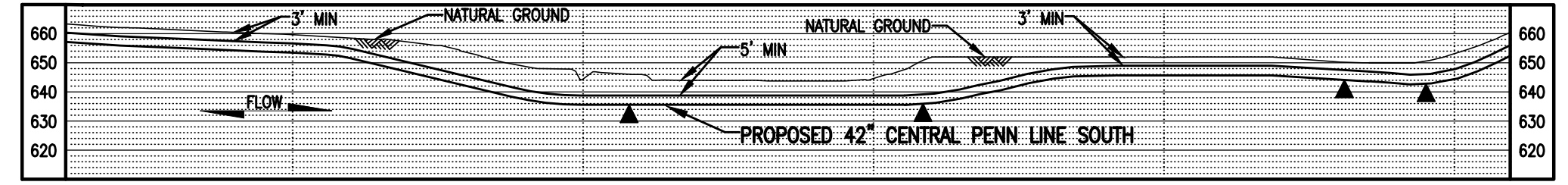
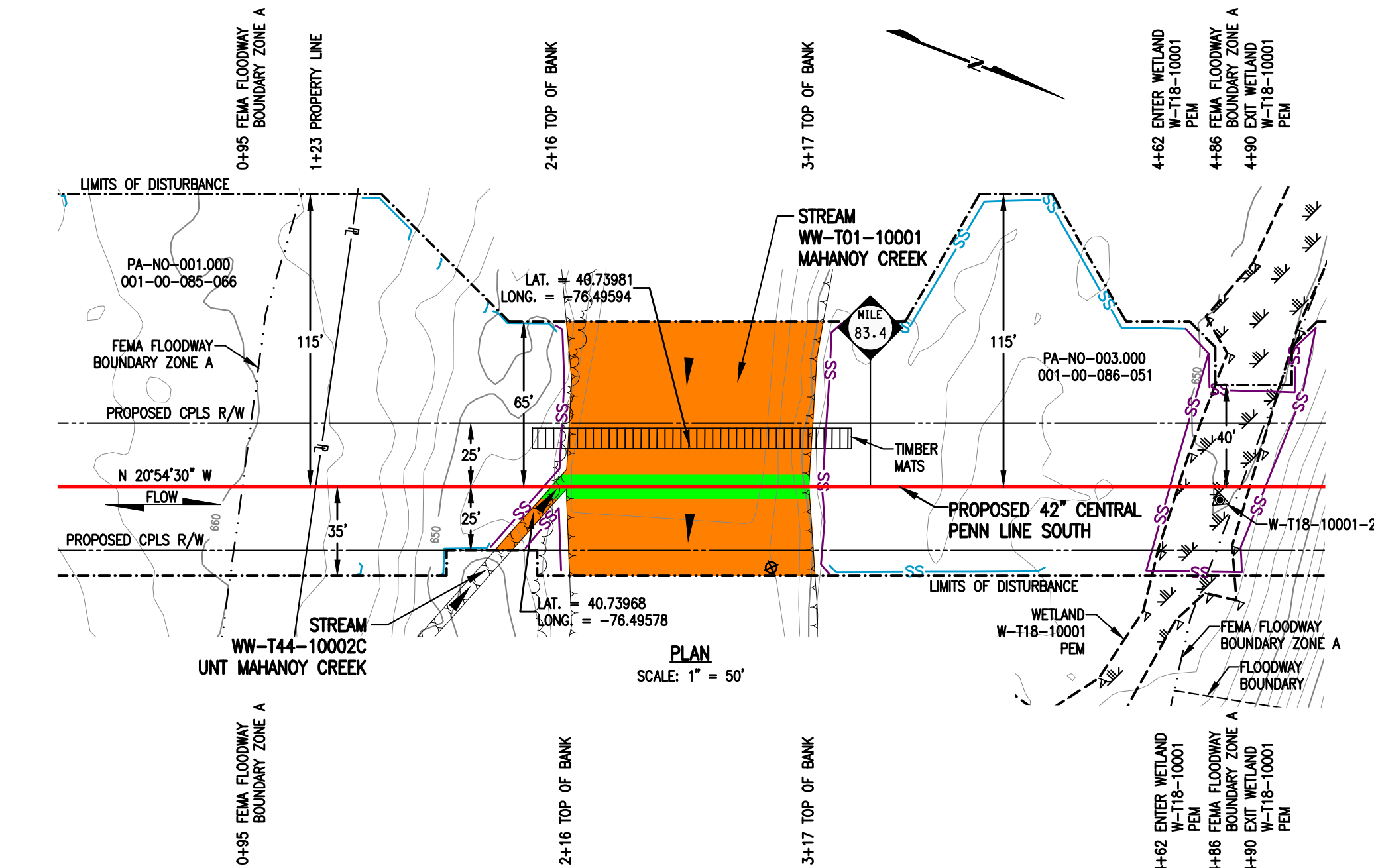
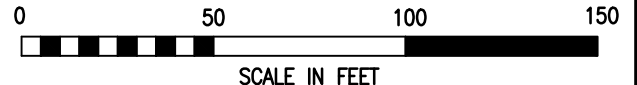
STREAM WW-T44-10002C	ACRE
TEMPORARY STREAM DISTURBANCE	0.0031
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0043
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.88
STREAM LENGTH	98.21

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE FLUME (FX). 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 4+00 SHOWN IS EQUAL TO STATION 4404+11 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 32' RT. OF M.P. 83.37, ELEV. = 650.07' (NAVD88).



LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS 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		12" SEDIMENT BARRIER
			18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
			TOP OF BANK
			PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

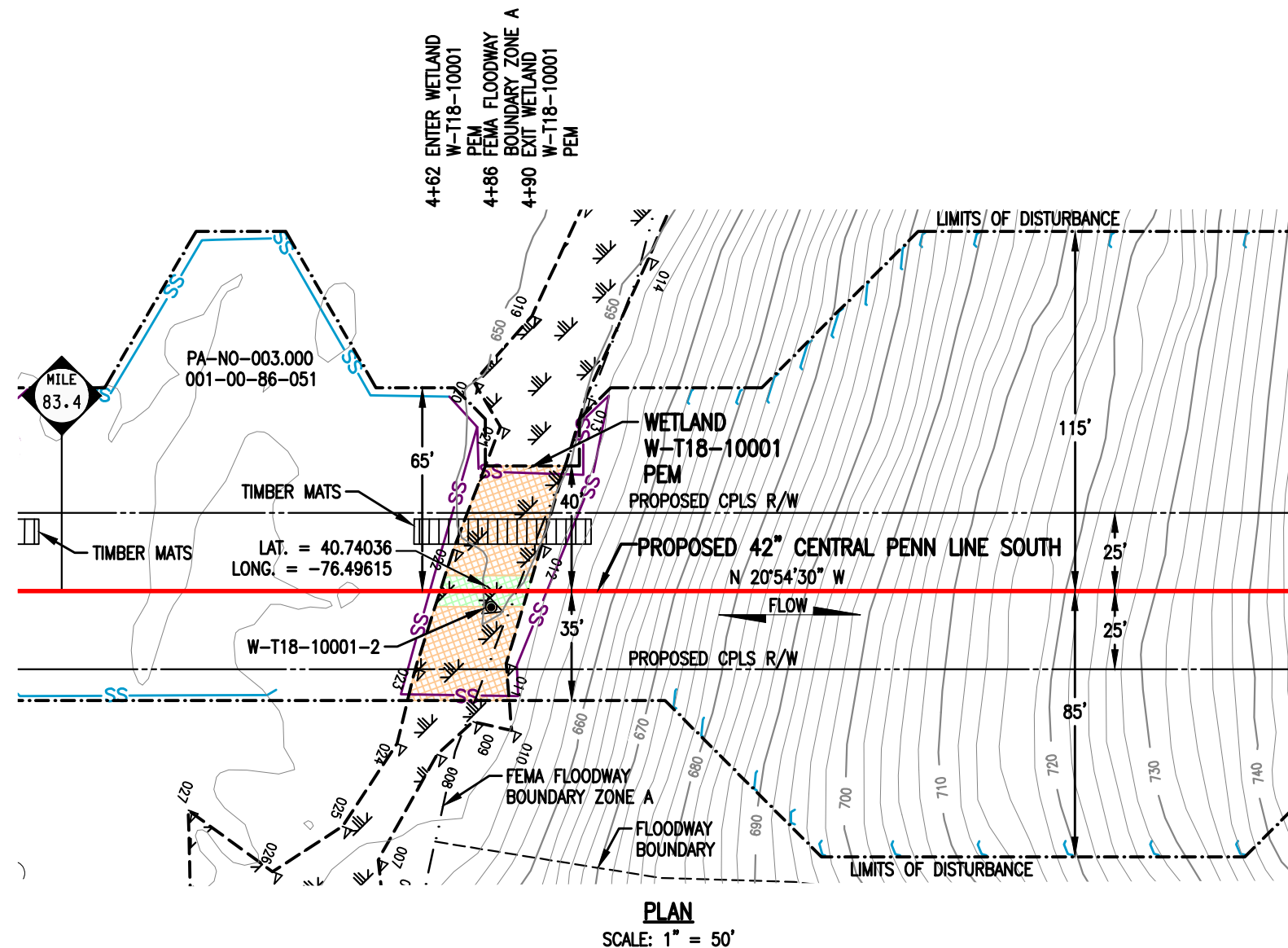
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NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	05/22/15	MBS	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/27/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
STREAM CROSSING WW-T01-10001 & WW-T44-10002C
© M.P. 83.39
EAST CAMERON TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

Williams

DRAWN BY: AO	DATE: 03/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 05/22/15	DRAWING NUMBER: 24-1600-70-09-A/83.39-02	SHEET 1
W.O. NUMBER: 1161503	10/21/2016	1/24pm	OF 1



WETLAND DISTURBANCE:

WETLAND W-T18-10001	ACRE
TEMPORARY DISTURBANCE	0.0418
PERMANENT DISTURBANCE	0.0064
TOTAL DISTURBANCE	0.0482

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 4+00 SHOWN IS EQUAL TO STATION 4404+11 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 70.66' RT. OF M.P. 83.4, ELEV. = 652.91' (NAVD88).

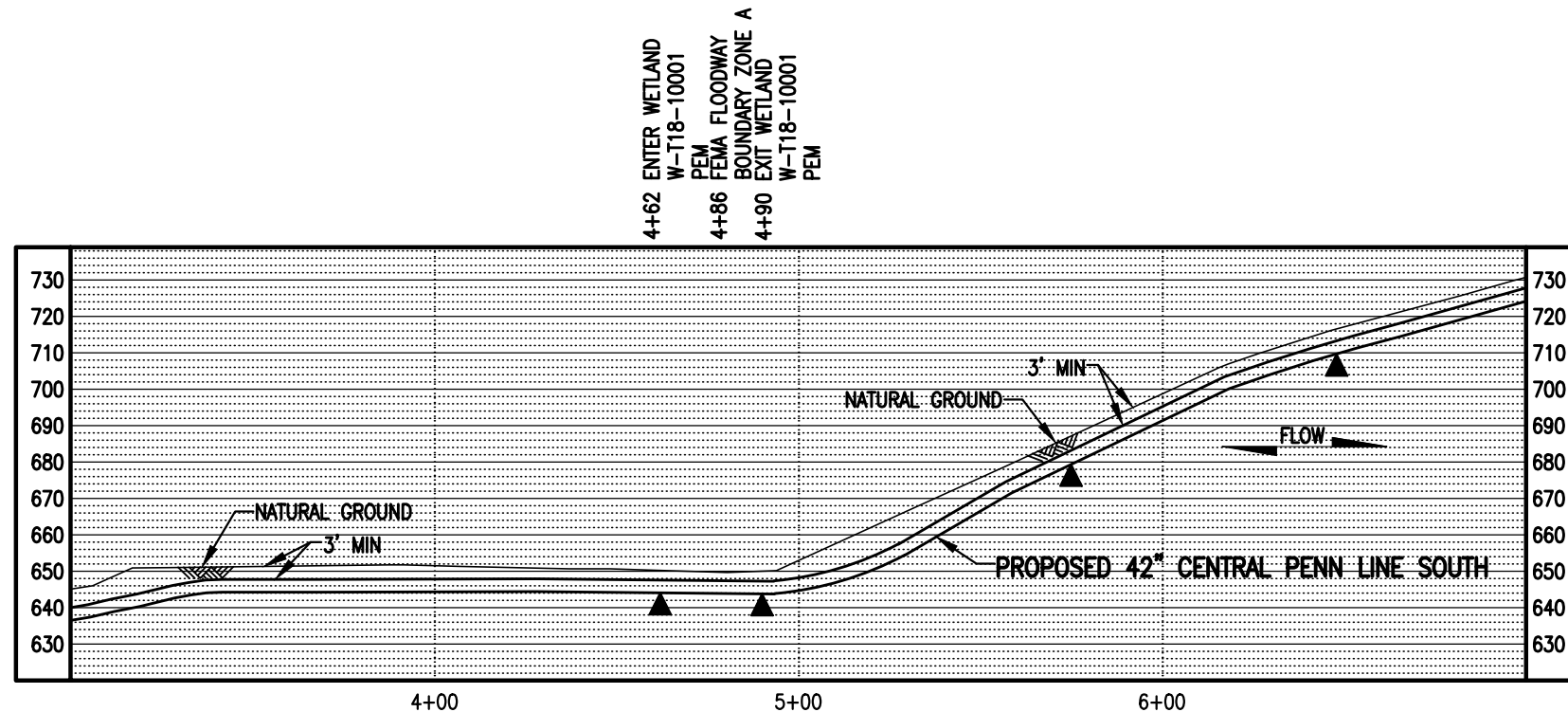


LEGEND

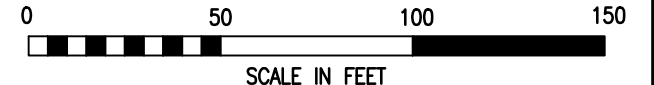
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT WETLAND IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY WETLAND IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		12" SEDIMENT BARRIER
	PROPOSED CPLS R/W		WELL POINT		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		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 42" CENTRAL PENN LINE SOUTH WETLAND CROSSING W-T18-10001 ● M.P. 83.42 EAST CAMERON TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 06/15/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 06/21/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 06/21/16	DRAWING NUMBER: 24-1600-70-20-A/83.42-01 SHEET 1	
							WO: 1161503	<small>10/21/2016 mlabell</small> <small>K:\103643-CPLS\Mapping\Wetlands\CPLS_PAN\Revised 105\24-1600-70-20-A_83.42-01.dwg</small>		OF 2

WETLAND DISTURBANCE:
SEE TABLE ON SHEET 1 OF 2



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



LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS 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
			18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
			TOP OF BANK
			PERMANENT WETLAND IMPACT
			TEMPORARY WETLAND IMPACT

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/27/16	TL	ISSUED FOR PADEP SUBMITTAL #2

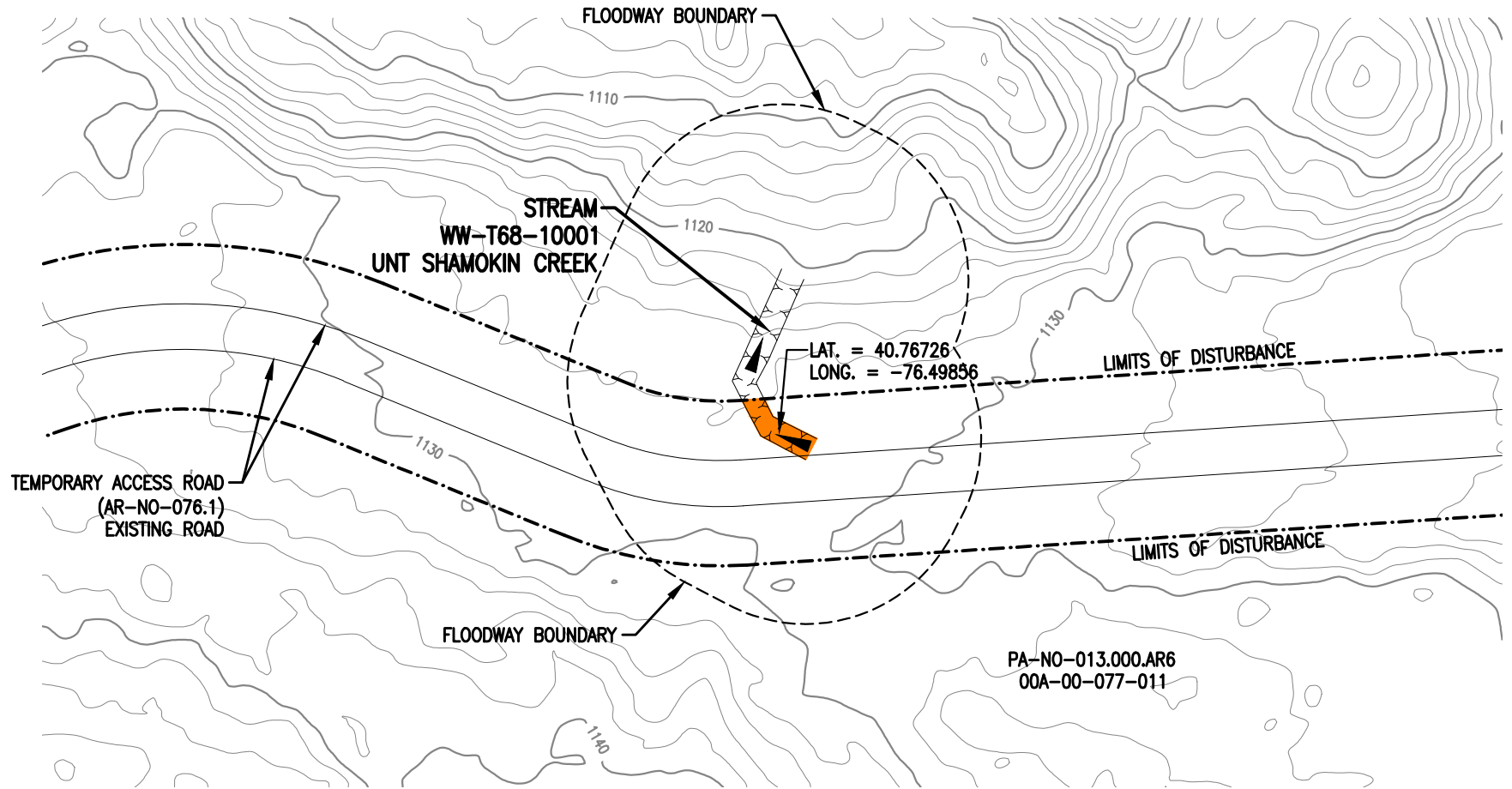
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
WETLAND CROSSING W-T18-10001
M.P. 83.42
EAST CAMERON TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

DRAWN BY: TL	DATE: 06/15/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 06/21/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/21/16	DRAWING NUMBER: 24-1600-70-20-A/83.42-01	SHEET 2
WO: 1161503		10/21/2016 mlabell	OF 2

STREAM DISTURBANCE FOR ACCESS ROAD AR-NO-076.1:

STREAM WW-T68-10001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0037
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0037
TEMPORARY FLOODWAY DISTURBANCE	0.1295
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.1295

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	9.59
STREAM LENGTH	25.88



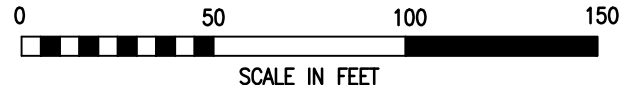
PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM DOES NOT CROSS EXISTING ROAD.
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.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 19.5' LT. OF M.P. 85.3, ELEV. = 1186.68' (NAVD88).



LEGEND

- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- LIMITS OF DISTURBANCE
- PROPOSED CPLS R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- STREAM FLOW
- EXISTING POWER LINE
- 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

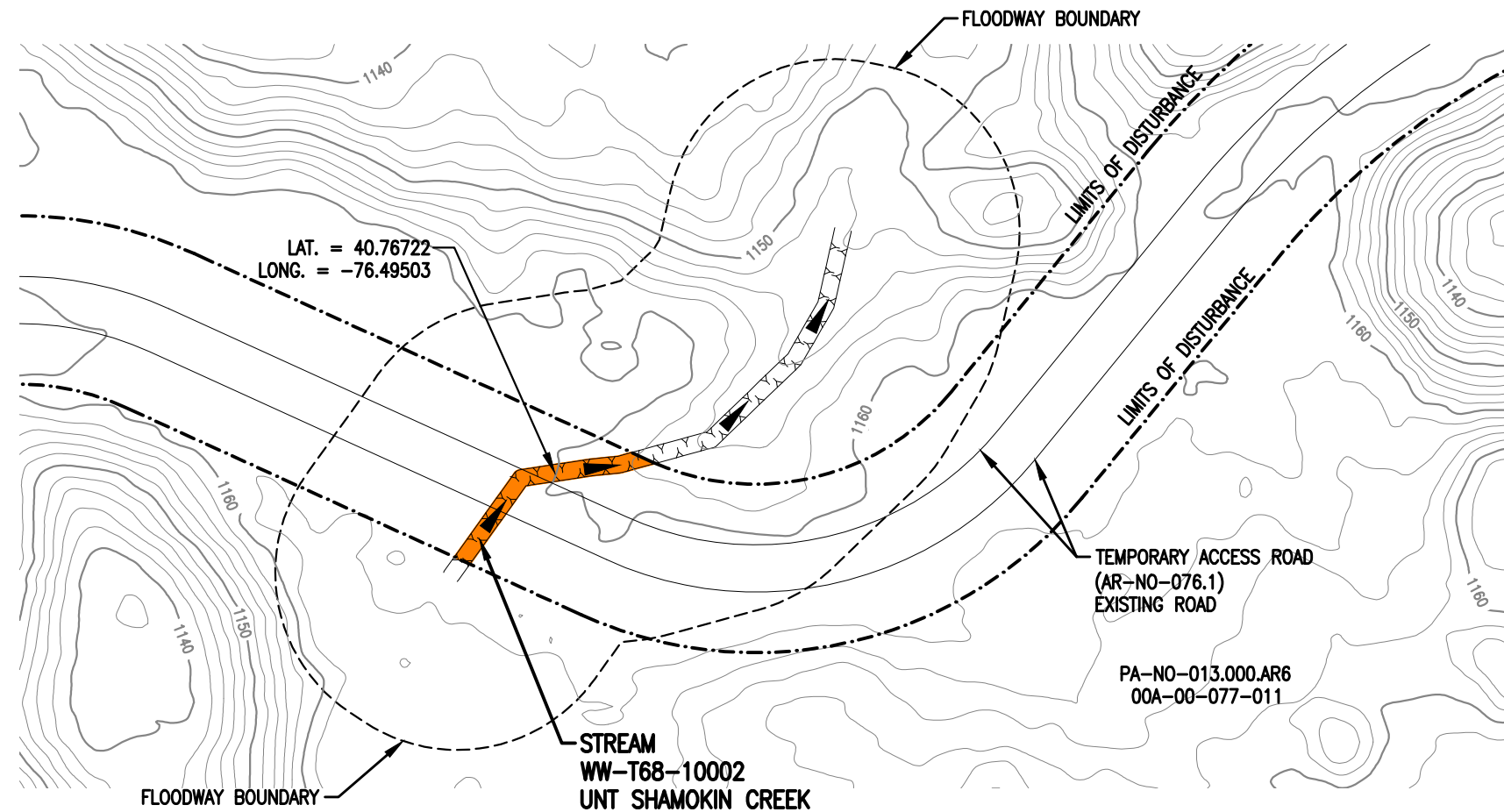
- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T68-10001 ● M.P. 85.31 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MF	DATE: 06/15/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/AR-NO-076.1-01	SHEET 1
							WO: 1161503		6:25am 10/19/2016 vqtran	OF 2

STREAM DISTURBANCE FOR ACCESS ROAD AR-NO-076.1:

STREAM WW-T68-10002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0076
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0076
TEMPORARY FLOODWAY DISTURBANCE	0.1744
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.1744

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	17.66
STREAM LENGTH	66.92



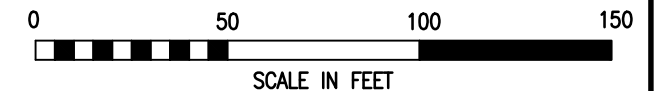
PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM IS BEING CROSSED BY 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.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 19.5' LT. OF M.P. 85.3, ELEV. = 1186.68' (NAVD88).

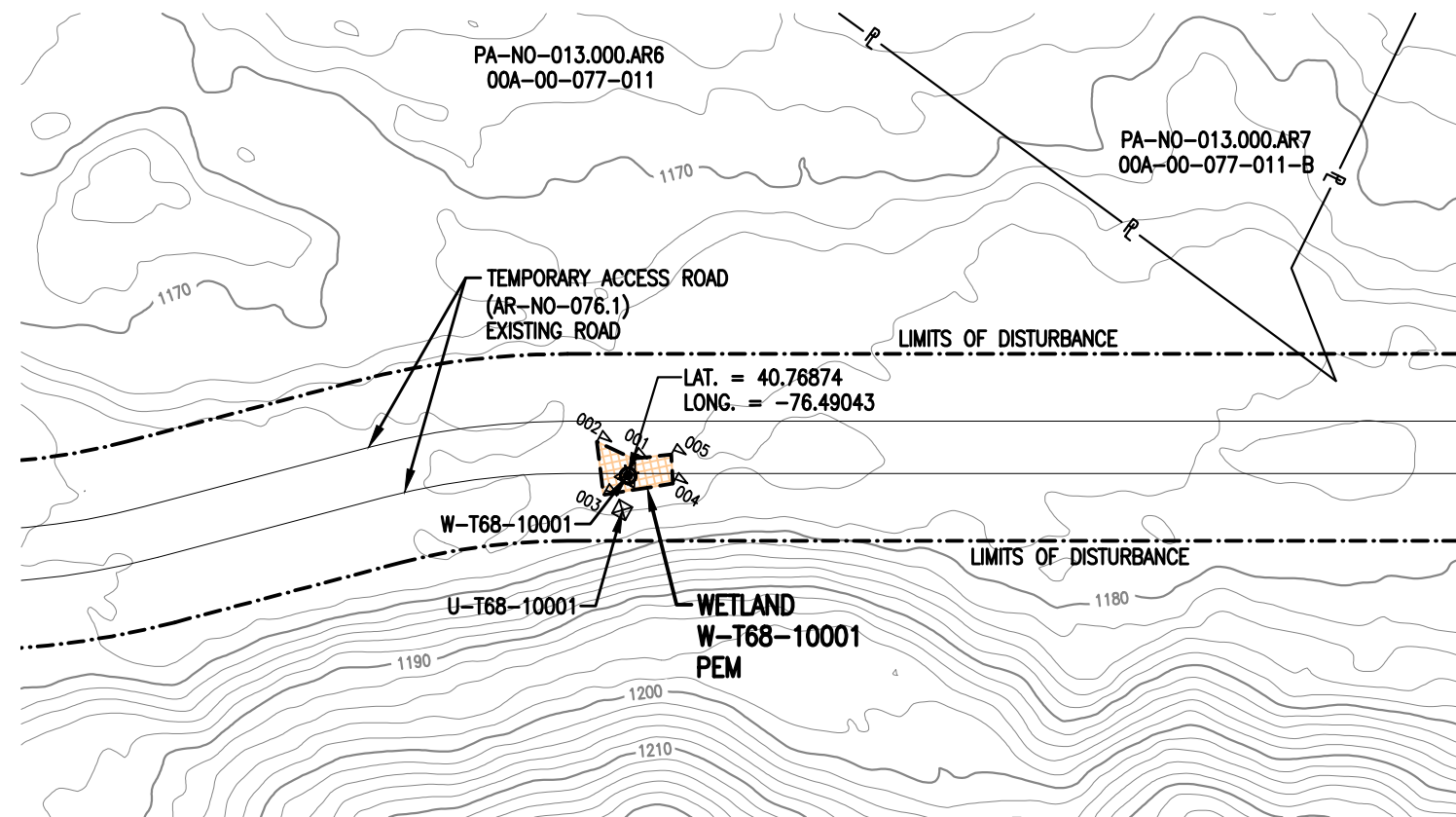


LEGEND			
PROPOSED 42" CENTRAL PENN LINE SOUTH	WETLAND FLAGS	12" SEDIMENT BARRIER	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	18" SEDIMENT BARRIER	
EXISTING TGPL R/W	WETLAND DATA POINT	24" SEDIMENT BARRIER	
LIMITS OF DISTURBANCE	UPLAND DATA POINT	32" SEDIMENT BARRIER	
PROPOSED CPLS R/W	WELL POINT	TOP OF BANK	
PROPERTY LINE	TRENCH PLUG	PERMANENT STREAM IMPACT	
FOREIGN PIPELINE	WATERBODY	TEMPORARY STREAM IMPACT	
WETLAND AREA	TREE LINE		
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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T68-10002 © M.P. 85.31 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA					
NO.		DATE							
0		10/27/16		LL		ISSUED FOR PADEP SUBMITTAL #2		ISSUED FOR BID:	
						1161503 CLR MJH		DATE: 06/15/16	
								DATE: 07/06/16	
								ISSUED FOR CONSTRUCTION:	
								DATE: 07/06/16	
								DRAWING NUMBER: 24-1600-70-09-A/AR-NO-076.1-01	
								SHEET 2	
								OF 2	

WETLAND DISTURBANCE FOR ACCESS ROAD AR-NO-076.1:

WETLAND W-T68-10001	ACRE
TEMPORARY DISTURBANCE	0.0042
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0042



PLAN
SCALE: 1" = 50'

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).

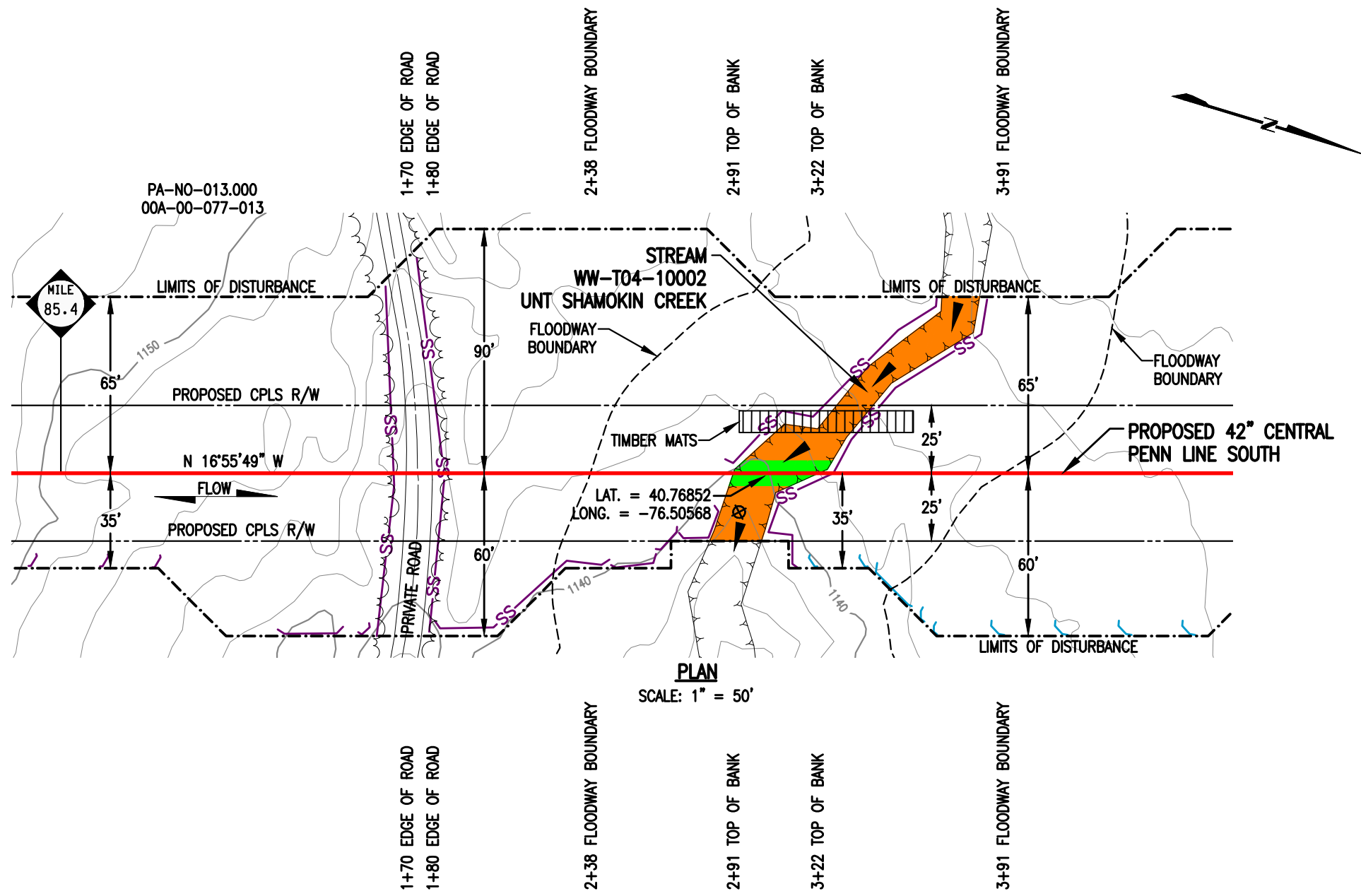
SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 19.5' LT. OF M.P. 85.3, ELEV. = 1186.68' (NAVD88).



LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		PERMANENT WETLAND IMPACT
	EXISTING PIPELINES		TEMPORARY WETLAND IMPACT
	EXISTING TGPL R/W		12" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		18" SEDIMENT BARRIER
	PROPOSED CPLS R/W		24" SEDIMENT BARRIER
	PROPERTY LINE		32" SEDIMENT BARRIER
	FOREIGN PIPELINE		TOP OF BANK
	WETLAND AREA		WETLAND FLAGS
	EXISTING POWER LINE		PHOTO DATA POINT
	EXISTING FENCE		WETLAND DATA POINT
	TRENCH PLUG		UPLAND DATA POINT
	WELL POINT		WATERBODY
	WETLAND FLAGS		TREE LINE
	PHOTO DATA POINT		FLOODWAY BOUNDARY
	WETLAND DATA POINT		FEMA FLOODWAY BOUNDARY
	UPLAND DATA POINT		
	WELL POINT		
	TRENCH PLUG		
	WATERBODY		
	TREE LINE		
	FLOODWAY BOUNDARY		
	FEMA FLOODWAY BOUNDARY		

DRAWING NO.		REFERENCE TITLE								
		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH WETLAND CROSSING W-T68-10001 M.P. 85.31 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	10/27/16	LL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	MF	06/15/16		1" = 50'
							CLR	07/06/16	ISSUED FOR CONSTRUCTION:	REVISION:
							MJH	07/06/16		0
							1161503		DRAWING NUMBER:	SHEET
									24-1600-70-20-A/AR-NO-076.1-01	1
									9/27/2016	1
									t2le	1
									9/27/2016	1



STREAM DISTURBANCE:

STREAM WW-T04-10002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0346
PERMANENT STREAM DISTURBANCE	0.0068
TOTAL STREAM DISTURBANCE	0.0414
TEMPORARY FLOODWAY DISTURBANCE	0.2820
PERMANENT FLOODWAY DISTURBANCE	0.0281
TOTAL FLOODWAY DISTURBANCE	0.3101

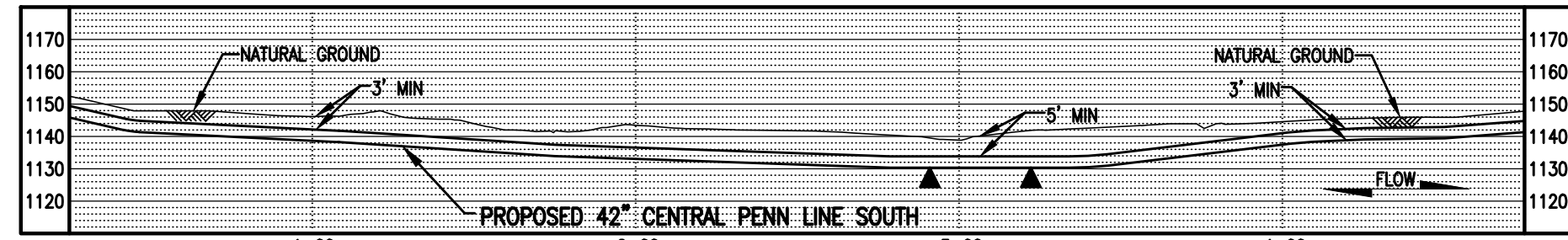
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	31.28
STREAM LENGTH	132.92

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 4510+69 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 60' LT. OF M.P. 85.44, ELEV. = 1143.47' (NAVD88).

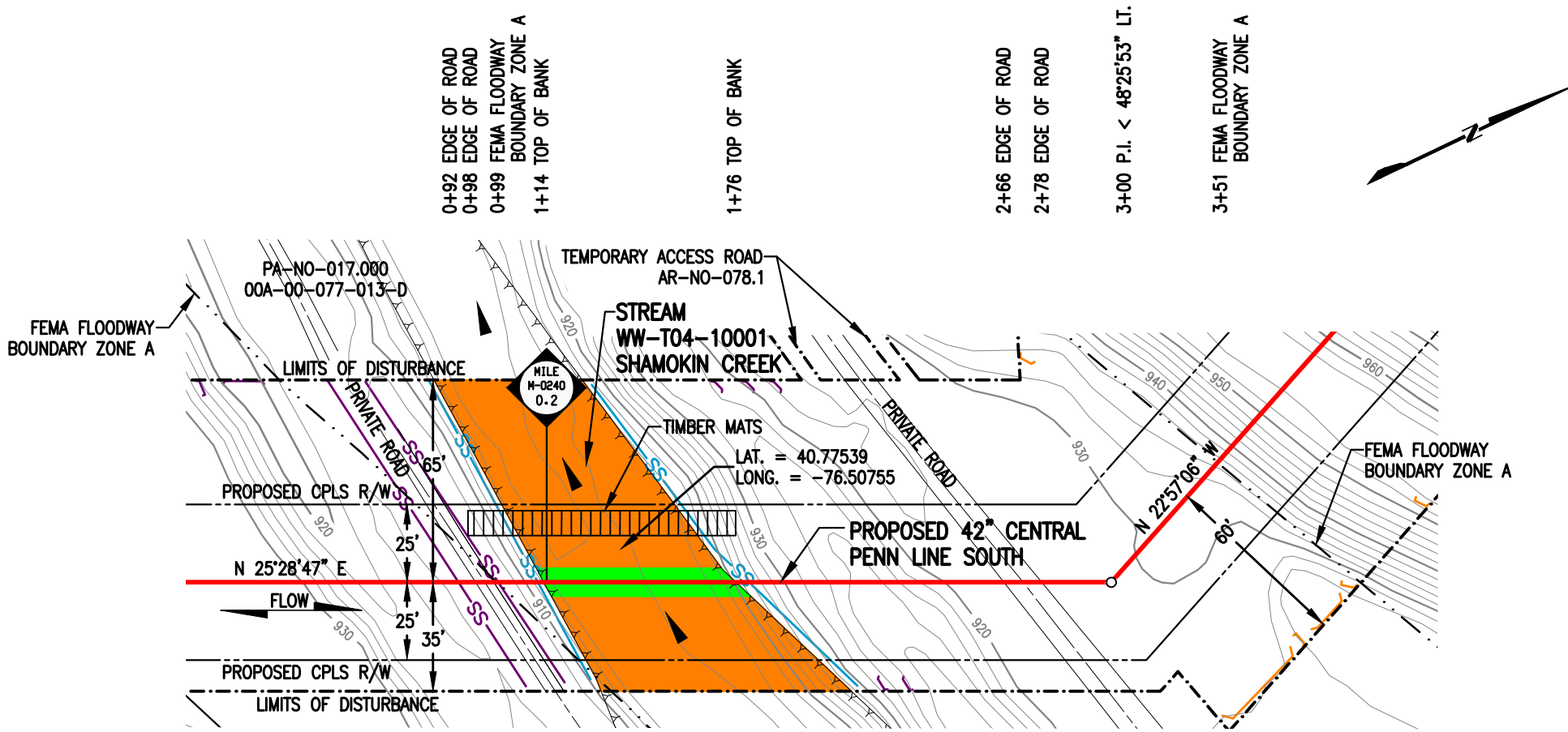


THIS DRAWING SUPERCEDES 25-1600-70-09-A/85.45-01

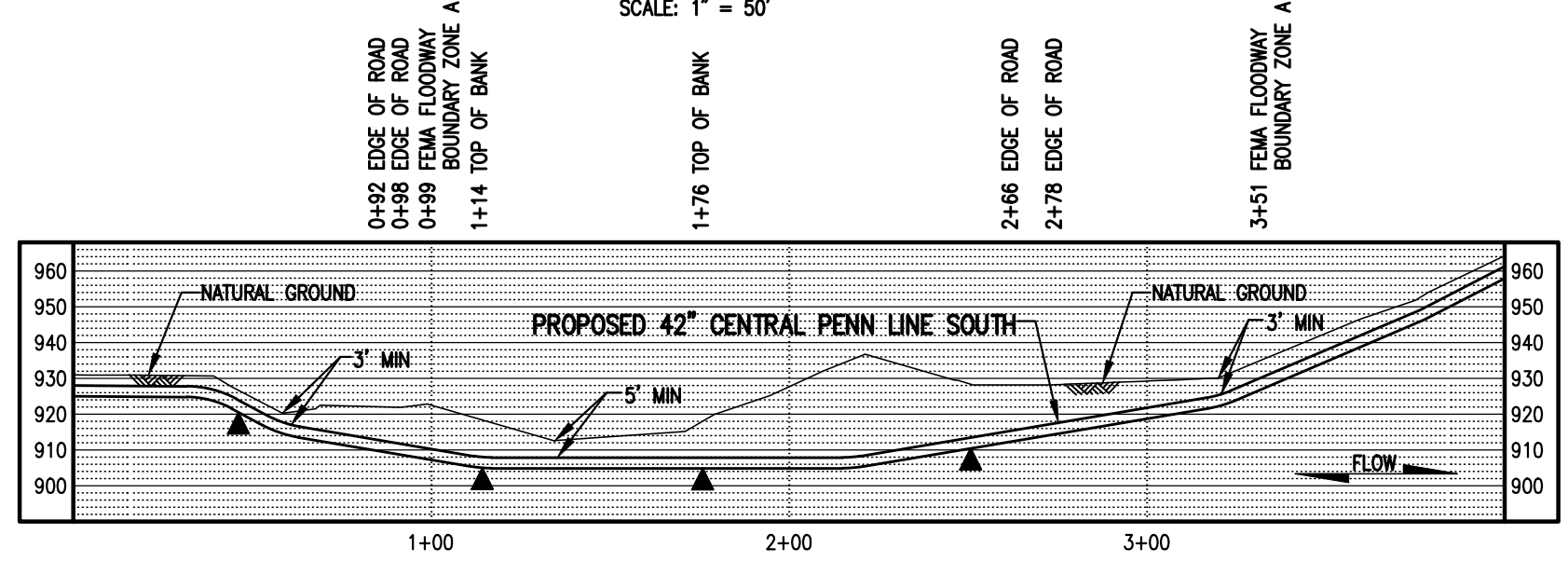
LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		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 CPLS 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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T04-10002 ● M.P. 85.45 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 03/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	07/30/15	MBS	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/27/16	AT	ISSUED FOR PADEP SUBMITAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 05/22/15	DRAWING NUMBER: 24-1600-70-09-A/85.45-02	SHEET 1
				1:33pm		10/21/2016		mlabel		OF 1
				K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_85.45-02.dwg		1161503				



PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-T04-10001	ACRE
TEMPORARY STREAM DISTURBANCE	0.1233
PERMANENT STREAM DISTURBANCE	0.0142
TOTAL STREAM DISTURBANCE	0.1375
TEMPORARY FLOODWAY DISTURBANCE	0.4351
PERMANENT FLOODWAY DISTURBANCE	0.0429
TOTAL FLOODWAY DISTURBANCE	0.4780

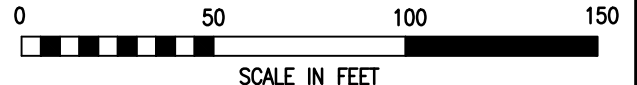
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	61.64
STREAM LENGTH	119.00

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 1+00 SHOWN IS EQUAL TO M-0240 STATION 10+41 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

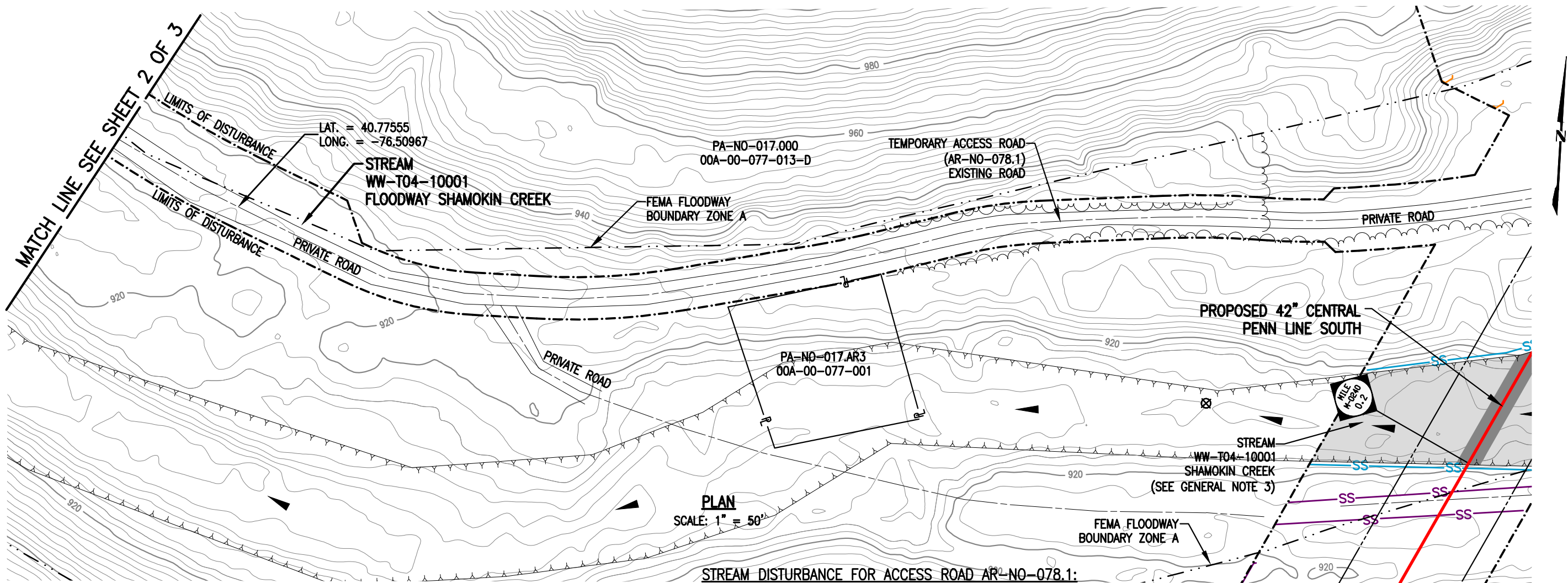
1. T.B.M. SURVEY CONTROL POINT - 67' LT. OF M-0240 M.P. 0.21, ELEV. = 923.294' (NAVD88).



LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		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 CPLS 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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T04-10001 ● M-0240 M.P. 0.20 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL DATE: 01/20/16 ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	AD	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR DATE: 02/02/16 ISSUED FOR CONSTRUCTION:	REVISION: 0
				DRAWING NUMBER: 24-1600-70-09-A/M-0240-0.20-01 1:45pm 10/21/2016 nlabell		SHEET 1 OF 1		



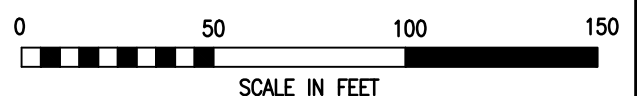
STREAM WW-T04-10001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.6308
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.6308
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

GENERAL NOTES:

1. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOODPLAIN PER FEMA FLOOD MAP DATA.
2. IMPACT FOR STREAM WW-T04-10001 IS SHOWN ON DRAWING 24-1600-70-A/M-0240-0.20-01.
3. PIPELINE IMPACT TO STREAM WW-T04-10001 IS SHOWN ON DWG. 24-1600-70-09-A/M-0240-0.02-01.

SURVEY NOTES:

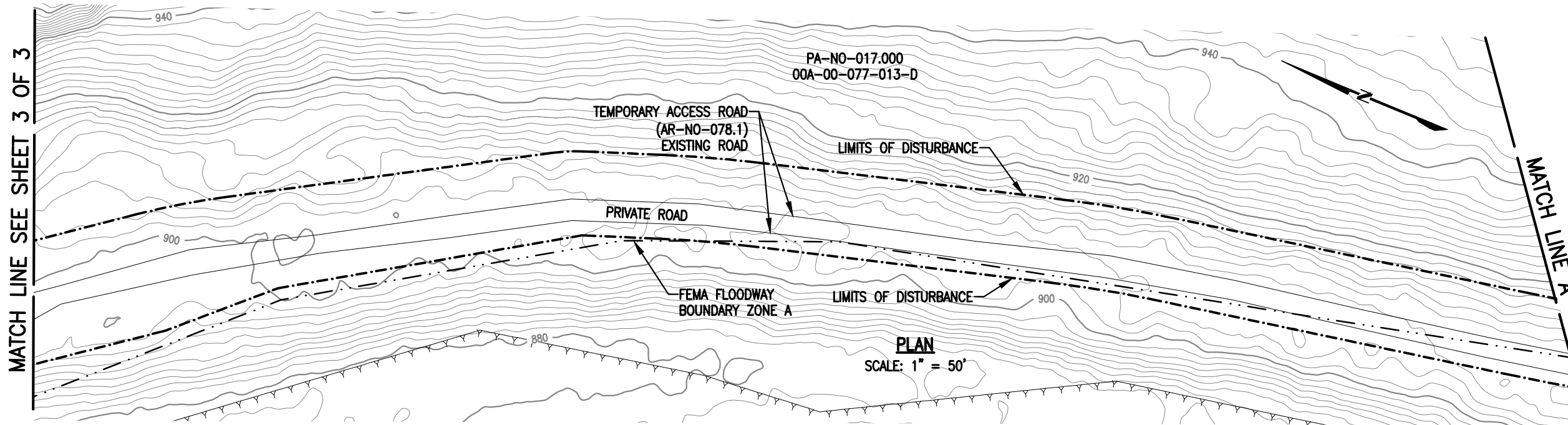
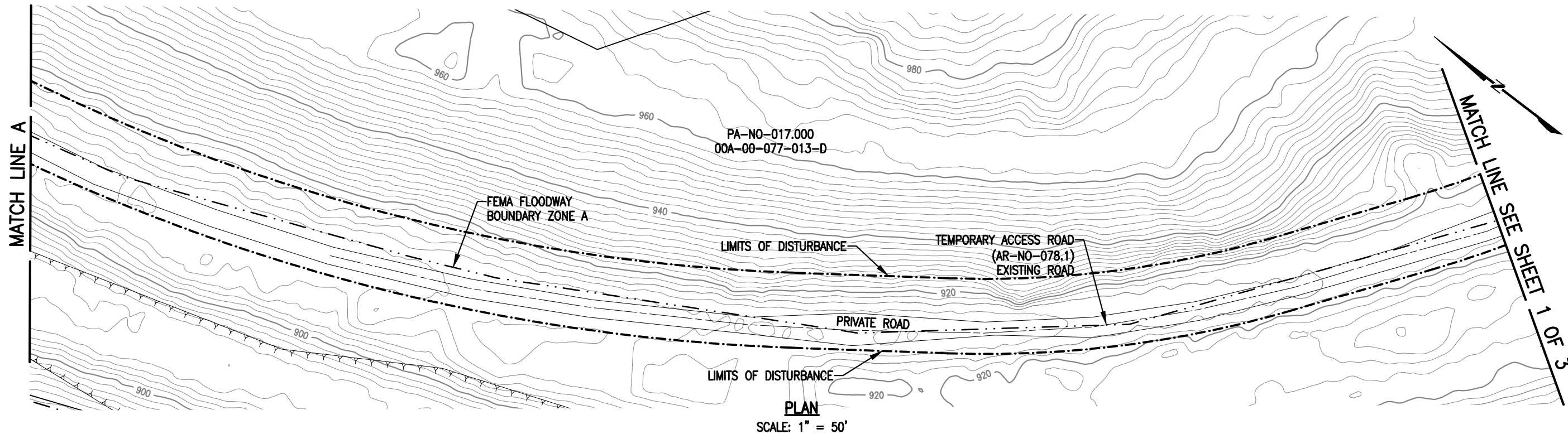
1. T.B.M. SURVEY CONTROL POINT - 67' LT. OF M.P. M-0240-0.21, ELEV. = 923.29' (NAVD88).



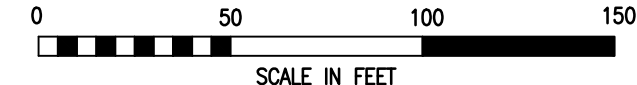
LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		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 CPLS R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		PERMANENT STREAM IMPACT
	FOREIGN PIPELINE		WATERBODY		TEMPORARY STREAM IMPACT
	WETLAND AREA		TREE LINE		
	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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T04-10001 © M-0240 M.P. 0.20 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB DATE: 07/21/16 ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR DATE: 07/21/16 ISSUED FOR CONSTRUCTION:	REVISION: 0
				APPROVED BY: MJH DATE: 07/21/16		DRAWING NUMBER: 24-1600-70-09-A/AR-NO-078.1-01 SHEET 1 7:04am 10/19/2016 vqtran K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_AR-NO-78.1-01.dwg OF 3		



STREAM DISTURBANCE FOR
ACCESS ROAD OF AR-NO-078.1:
SEE TABLE ON SHEET 1 OF 3



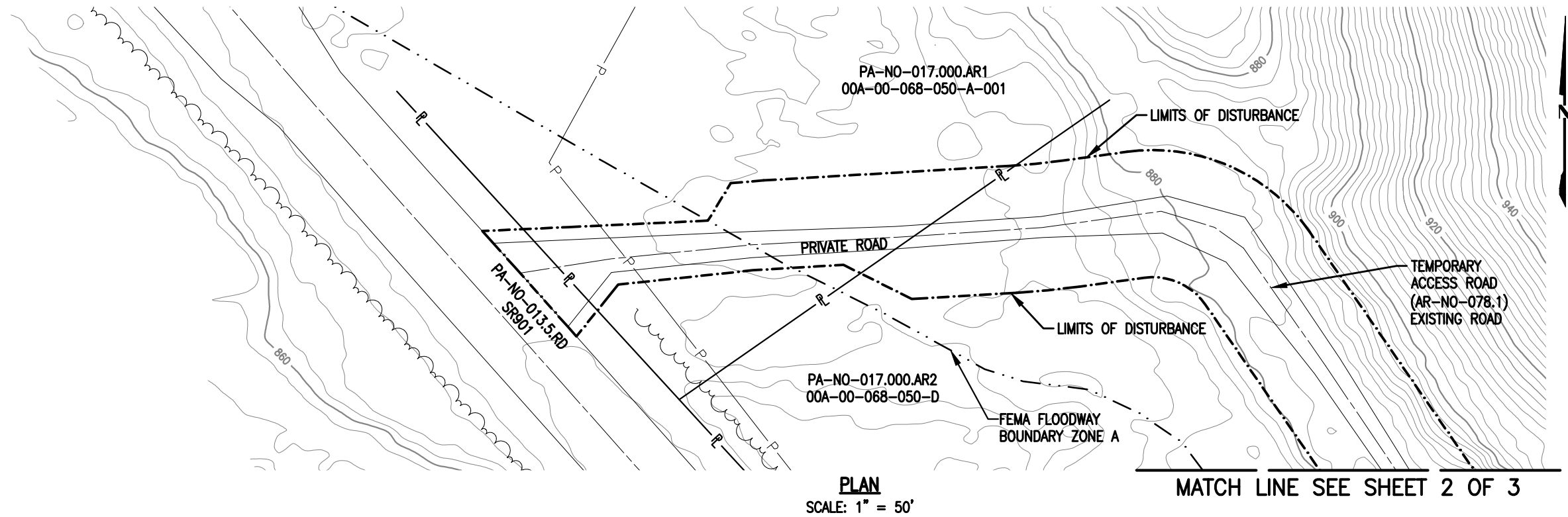
LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		12" SEDIMENT BARRIER
			18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
			PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

DRAWING NO.	REFERENCE TITLE

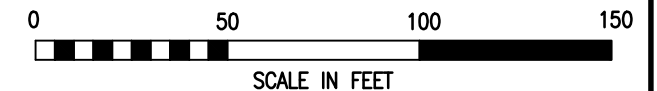
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/27/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
 WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
 ATLANTIC SUNRISE PROJECT
 PROPOSED 42" CENTRAL PENN LINE SOUTH
 STREAM CROSSING WW-T04-10001
 @ M-0240 M.P. 0.20
 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

DRAWN BY: JB	DATE: 07/21/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/21/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/21/16	DRAWING NUMBER: 24-1600-70-09-A/AR-NO-078.1-01	SHEET 2
WO: 1161503		7-06am 10/19/2016 vqtran	OF 3



PLAN
SCALE: 1" = 50'



LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS 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		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	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/27/16	JB	ISSUED FOR PADEP SUBMITTAL #2

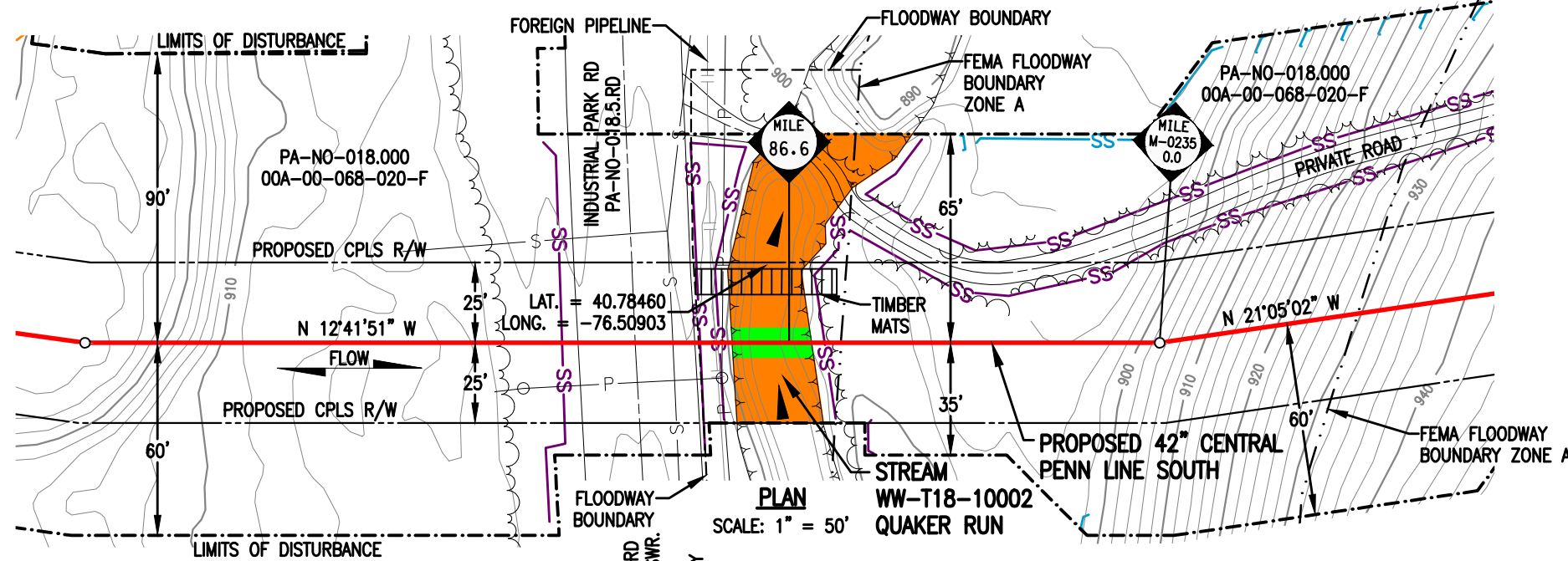
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
STREAM CROSSING WW-T04-10001
M-0240 M.P. 0.20
COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

DRAWN BY: THL	DATE: 07/22/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/22/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/23/16	DRAWING NUMBER: 24-1600-70-09-A/AR-NO-078.1-01	SHEET 3
WO: 1161503	7:07am 10/19/2016 vqtran	OF 3	

0+22 P.I. < 07°59'15" LT.

3+56 P.I. < 08°23'11" LT.

4+15 FEMA FLOODWAY BOUNDARY ZONE A



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T18-10002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0533
PERMANENT STREAM DISTURBANCE	0.0057
TOTAL STREAM DISTURBANCE	0.0590
TEMPORARY FLOODWAY DISTURBANCE	0.4716
PERMANENT FLOODWAY DISTURBANCE	0.0415
TOTAL FLOODWAY DISTURBANCE	0.5131

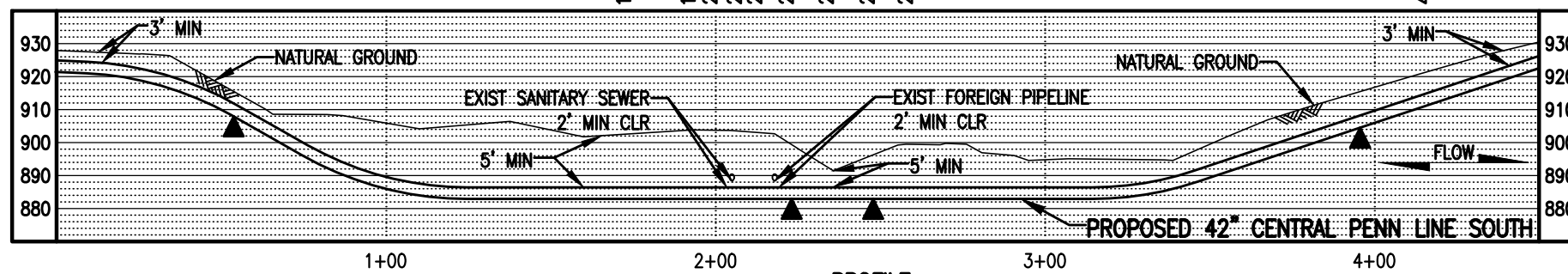
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	24.70
STREAM LENGTH	94.89

GENERAL NOTES:

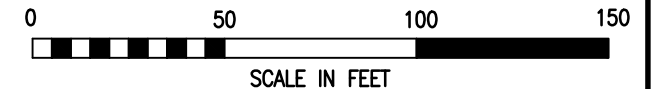
1. STREAM CROSSING METHOD SHALL BE FLUME (FX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 4571+07 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 14' LT. OF M.P. 86.59, ELEV. = 902.43' (NAVD88).



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



THIS DRAWING SUPERCEDES 25-1600-70-09-A/86.59-01

LEGEND

- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLS 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

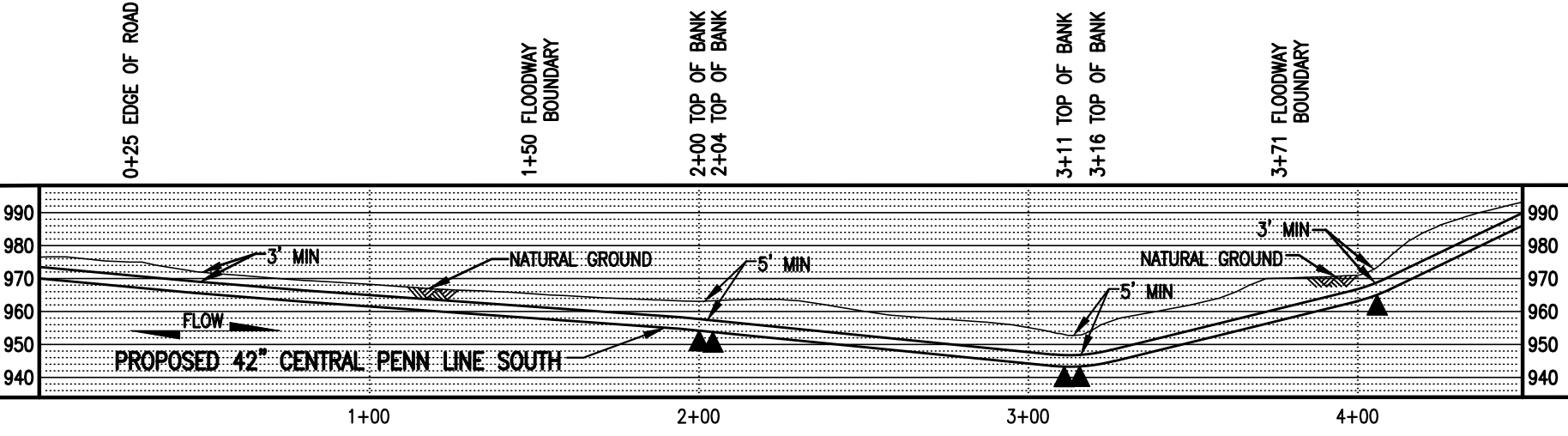
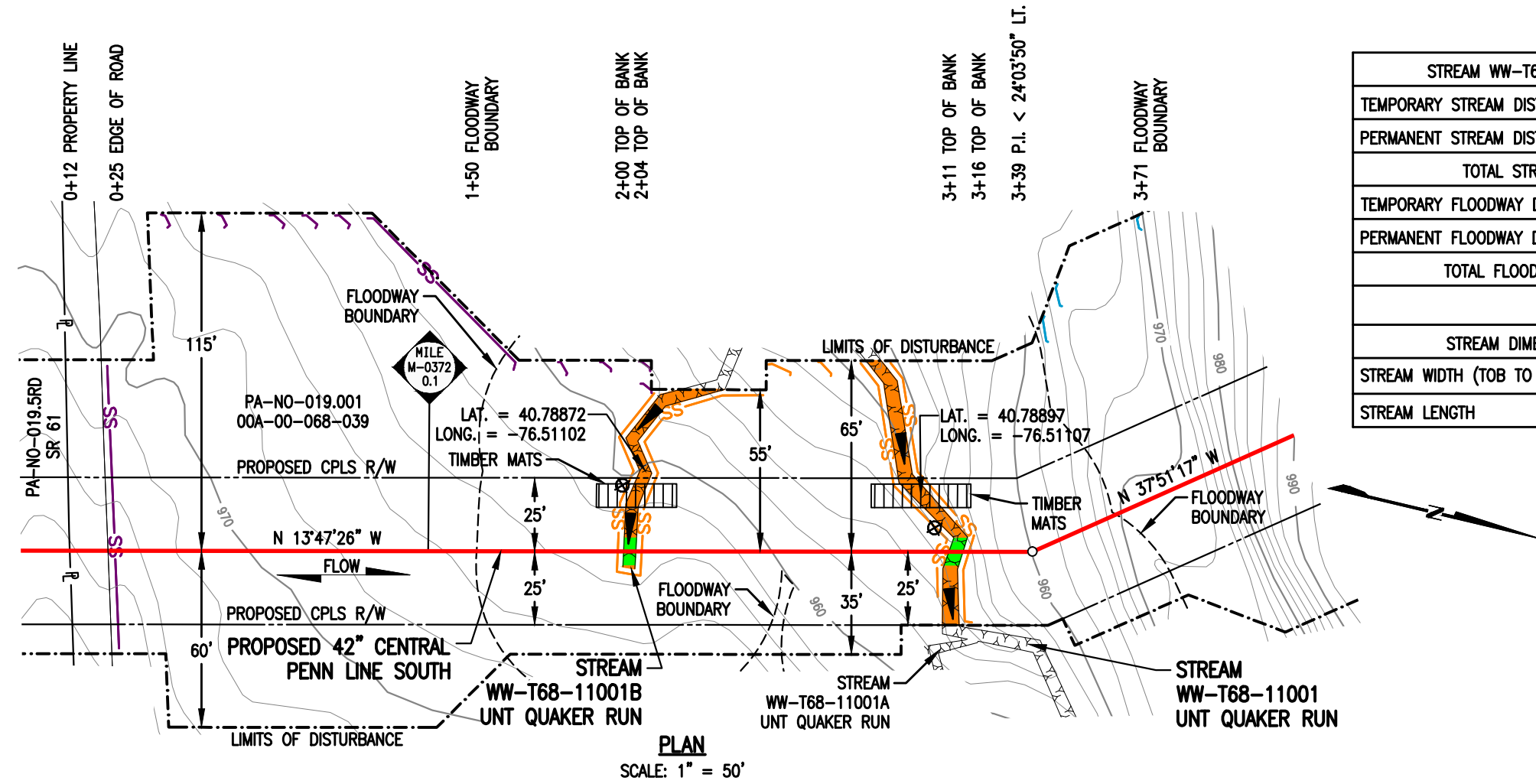
- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T18-10002 ● M.P. 86.60 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA							
NO.		DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 03/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
0		07/30/15	MBS	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 03/07/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1		02/03/16	AKB	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 05/22/15	DRAWING NUMBER: 24-1600-70-09-A/86.59-02	SHEET 1
2		10/27/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503	DATE: 10/21/2016	12:14pm	OF 1

STREAM DISTURBANCE:

STREAM WW-T68-11001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0096
PERMANENT STREAM DISTURBANCE	0.0011
TOTAL STREAM DISTURBANCE	0.0107
TEMPORARY FLOODWAY DISTURBANCE	0.3983
PERMANENT FLOODWAY DISTURBANCE	0.0487
TOTAL FLOODWAY DISTURBANCE	0.4470
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	4.70
STREAM LENGTH	99.35

STREAM WW-T68-11001B	ACRE
TEMPORARY STREAM DISTURBANCE	0.0059
PERMANENT STREAM DISTURBANCE	0.0009
TOTAL STREAM DISTURBANCE	0.0068
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	4.13
STREAM LENGTH	80.47

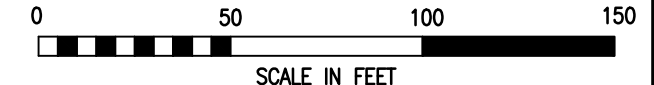


GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T68-11001B SHALL BE FLUME (FX) AND STREAM CROSSING METHOD FOR WW-T68-11001 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 WATERWAY.
3. STATION 1+00 SHOWN IS EQUAL TO M-0372 STATION 4+94 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 405' RT. OF M-0372 M.P.-0.08, ELEV. = 1004.59' (NAVD88).



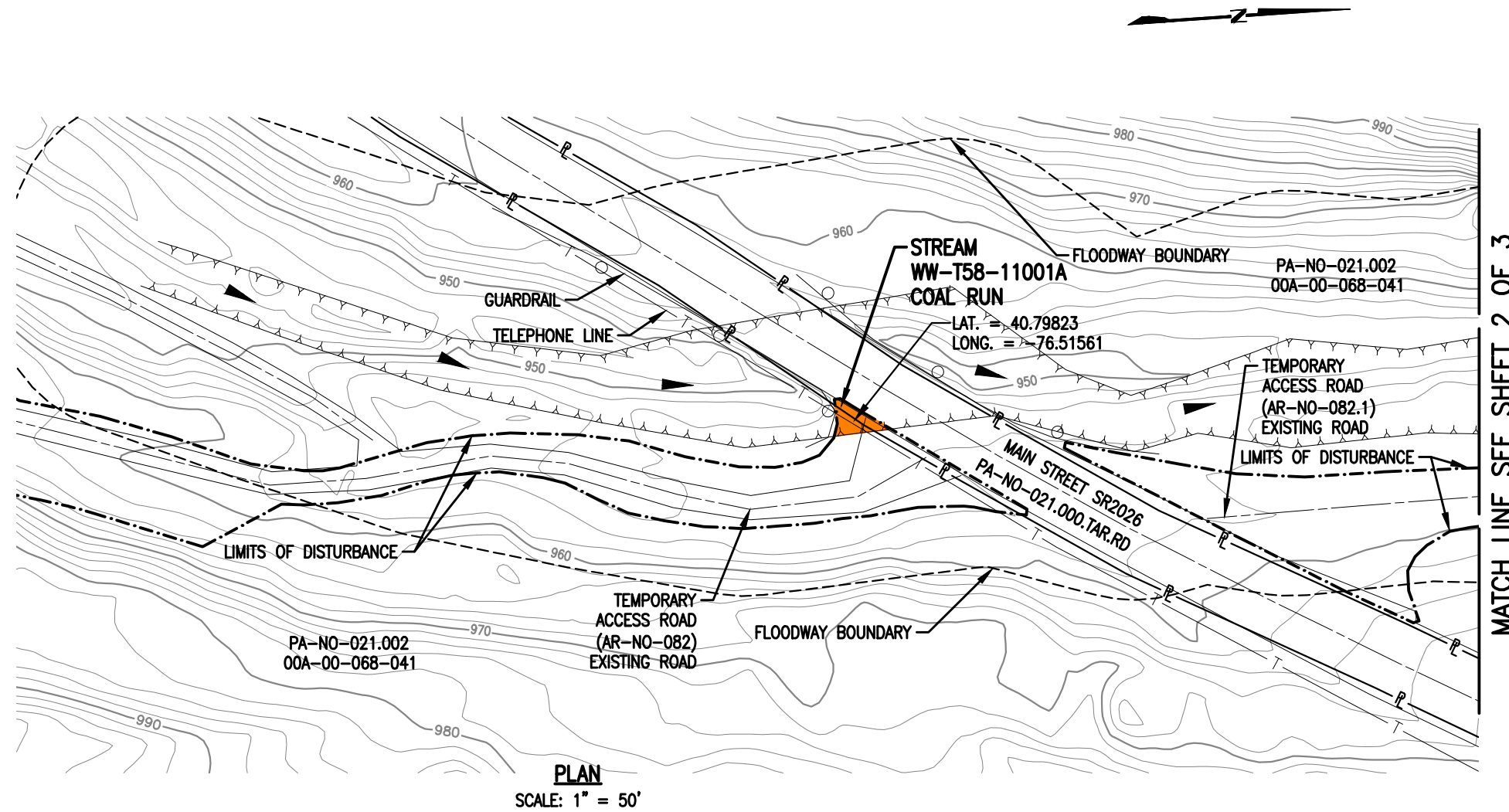
LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		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 CPLS 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 42" CENTRAL PENN LINE SOUTH STREAM CROSSINGS WW-T68-11001B @ M-0372 M.P. 0.11 AND WW-T-68-11001 @ M-0372 M.P. 0.13 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 07/21/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/21/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/21/16	DRAWING NUMBER: 24-1600-70-09-A/M-0372-0.11-01	SHEET 1
							WC: 1161503		1/5/2016	OF 1

STREAM DISTURBANCE FOR ACCESS ROAD AR-NO-082:

STREAM WW-T58-11001A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0029
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0029
TEMPORARY FLOODWAY DISTURBANCE	0.1092
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.1092
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	12.34
STREAM LENGTH	26.26



GENERAL NOTES:

1. STREAM IS BEING CROSSED BY EXISTING BRIDGE.
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.

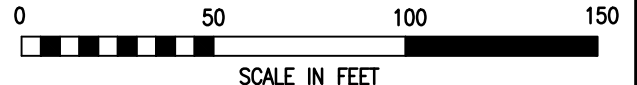
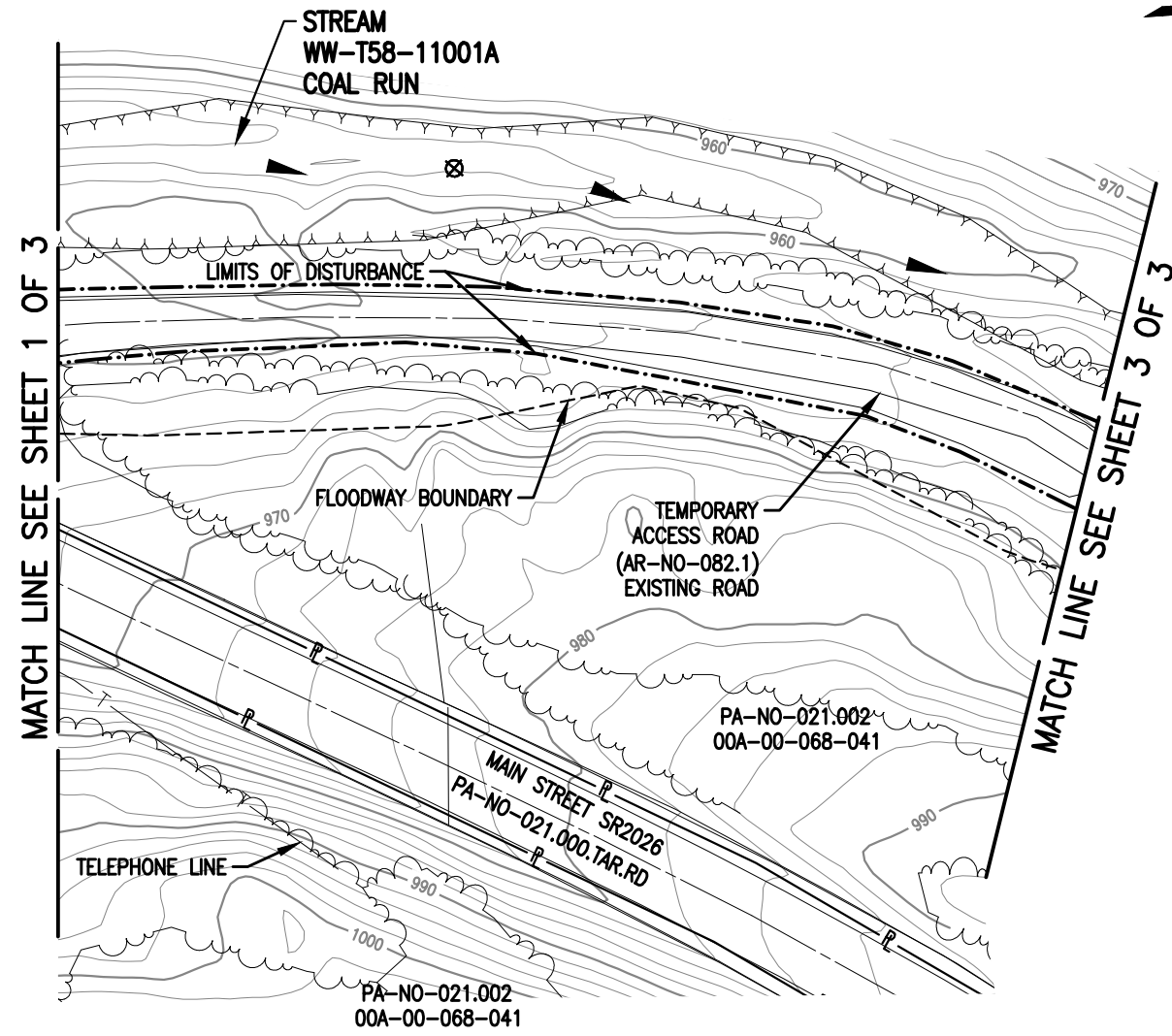
SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 8.5' RT. OF M-0235 M.P. 0.9, ELEV. = 1201.90' (NAVD88).



LEGEND		WOOD GROUP MUSTANG, INC.	
PROPOSED 42" CENTRAL PENN LINE SOUTH	WETLAND FLAGS	12" SEDIMENT BARRIER	PERMANENT STREAM IMPACT
EXISTING PIPELINES	PHOTO DATA POINT	18" SEDIMENT BARRIER	TEMPORARY STREAM IMPACT
EXISTING TGPL R/W	WETLAND DATA POINT	24" SEDIMENT BARRIER	
LIMITS OF DISTURBANCE	UPLAND DATA POINT	32" SEDIMENT BARRIER	
PROPOSED CPLS R/W	WELL POINT	TOP OF BANK	
PROPERTY LINE	TRENCH PLUG		
FOREIGN PIPELINE	WATERBODY		
WETLAND AREA	TREE LINE		
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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T58-11001A ● M-0235 M.P. 0.90 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	10/27/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: MF		DATE: 06/15/16	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: 24-1600-70-09-A/AR-NO-082-1-01	SHEET 1	
WO: 1161503		10/11/2016 1:37pm t2le	OF 3		



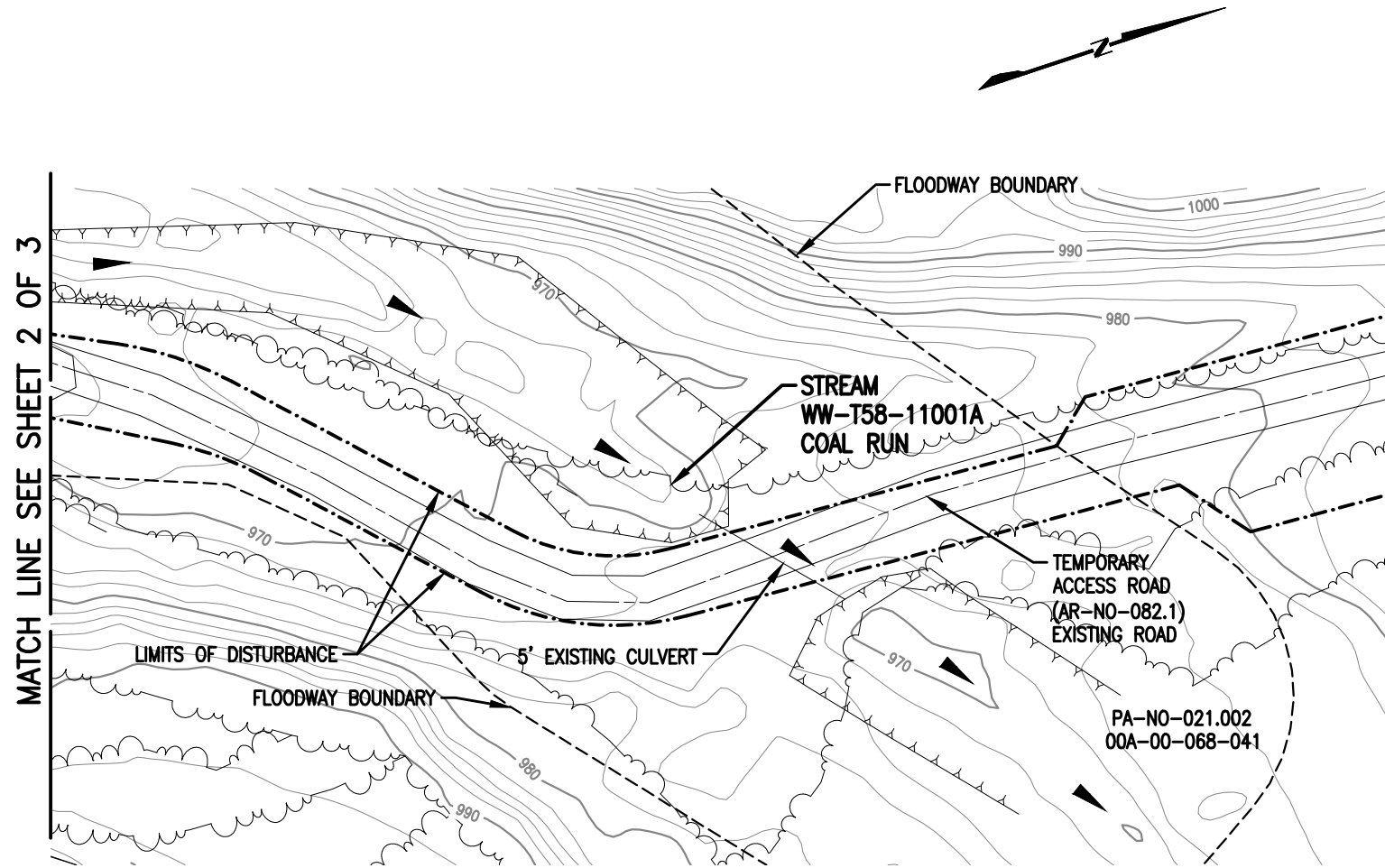
LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND 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	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/27/16	MF	ISSUED FOR PADEP SUBMITTAL #2

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC			
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS			
ATLANTIC SUNRISE PROJECT			
PROPOSED 42" CENTRAL PENN LINE SOUTH			
STREAM CROSSING WW-T58-11001A			
M-0235 M.P. 0.90			
COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA			
DRAWN BY:	MF	DATE:	06/15/16
CHECKED BY:	CLR	DATE:	07/06/16
APPROVED BY:	MJH	DATE:	07/06/16
ISSUED FOR CONSTRUCTION:		ISSUED FOR CONSTRUCTION:	
SCALE:	1" = 50'	REVISION:	0
DRAWING NUMBER:	24-1600-70-09-A/AR-NO-082-1-01	SHEET	2
WO:	1161503	OF	3

STREAM DISTURBANCE FOR ACCESS ROAD AR-NO-082.1:

STREAM WW-T58-11001A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.4575
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.4575
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00



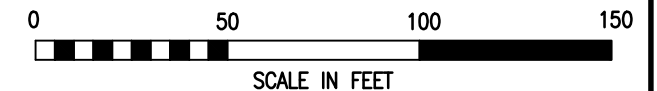
PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM IS CROSSED BY EXISTING CULVERT.
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.

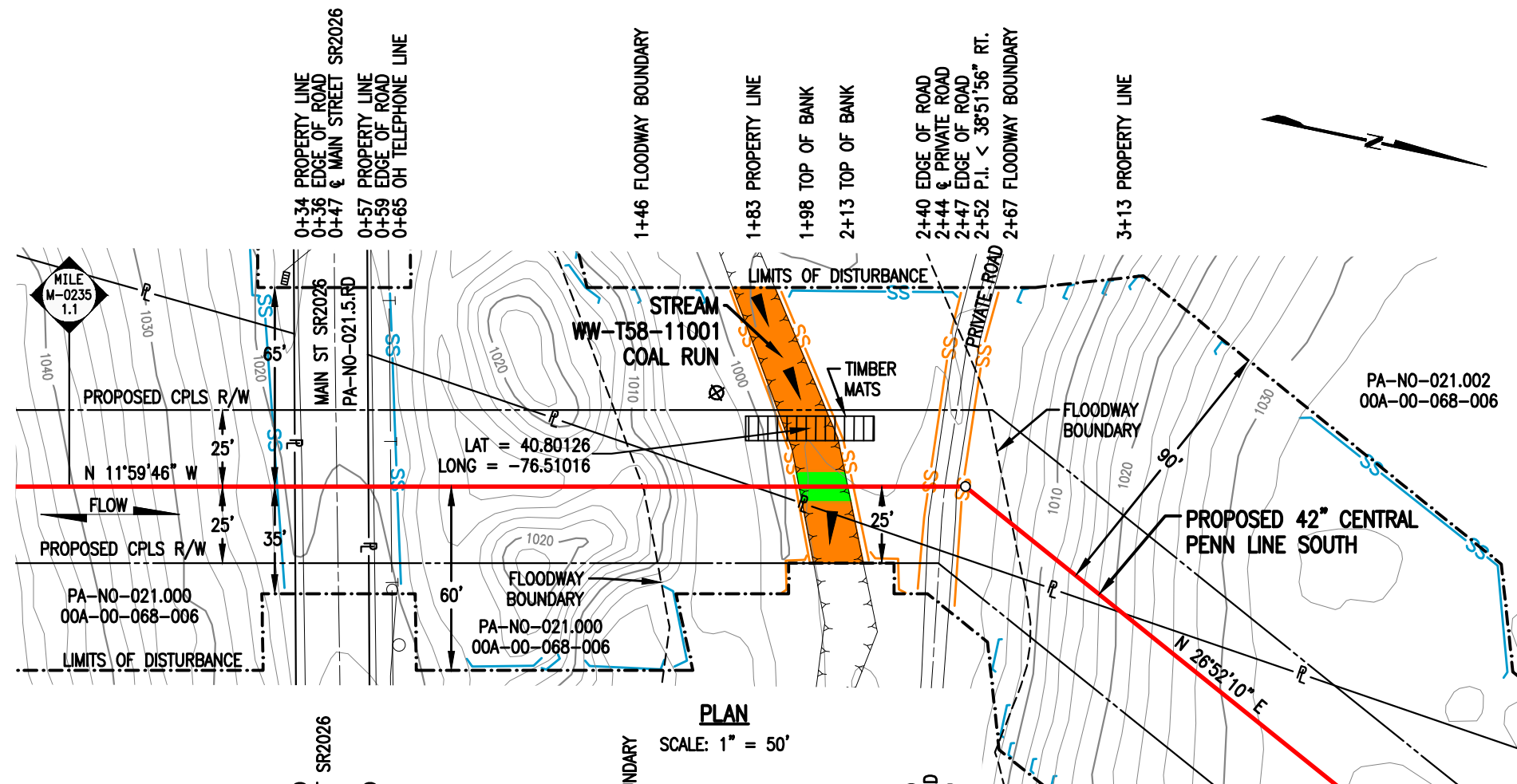
SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 8.5' RT. OF M-0235 M.P. 0.9, ELEV. = 1201.90' (NAVD88).



LEGEND																	
PROPOSED 42" CENTRAL PENN LINE SOUTH	WETLAND FLAGS	12" SEDIMENT BARRIER	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISION DESCRIPTION</th> <th>W.O. NO.</th> <th>CHK.</th> <th>APP.</th> </tr> <tr> <td>0</td> <td>10/27/16</td> <td>MF</td> <td>ISSUED FOR PADEP SUBMITTAL #2</td> <td>1161503</td> <td>CLR</td> <td>MJH</td> </tr> </table>	NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	0	10/27/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH
NO.	DATE	BY		REVISION DESCRIPTION	W.O. NO.	CHK.	APP.										
0	10/27/16	MF		ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH										
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 CPLS R/W	WELL POINT	PERMANENT STREAM IMPACT															
PROPERTY LINE	TRENCH PLUG	TEMPORARY STREAM IMPACT															
FOREIGN PIPELINE	WATERBODY																
WETLAND AREA	TREE LINE																
EXISTING FENCE	FLOODWAY BOUNDARY																
STREAM FLOW	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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T58-11001A ● M-0235 M.P. 0.90 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA			
NO.		DATE		ISSUED FOR BID:		SCALE: 1" = 50'	
0		10/27/16		DATE: 06/15/16		REVISION: 0	
BY		DATE		ISSUED FOR CONSTRUCTION:		DRAWING NUMBER: 24-1600-70-09-A/AR-NO-082-1-01 SHEET 3	
MF		07/06/16		DATE: 07/06/16		OF 3	
APPROVED BY:		DATE:		DRAWING NUMBER:		10/11/2016 t2le	
MJH		07/06/16		24-1600-70-09-A/AR-NO-082-1-01.dwg			
W.O. NO.:		CHK.:		APP.:		1:38pm	
1161503		CLR		MJH			



STREAM DISTURBANCE:

STREAM WW-T58-11001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0282
PERMANENT STREAM DISTURBANCE	0.0036
TOTAL STREAM DISTURBANCE	0.0318
TEMPORARY FLOODWAY DISTURBANCE	0.2333
PERMANENT FLOODWAY DISTURBANCE	0.0250
TOTAL FLOODWAY DISTURBANCE	0.2583

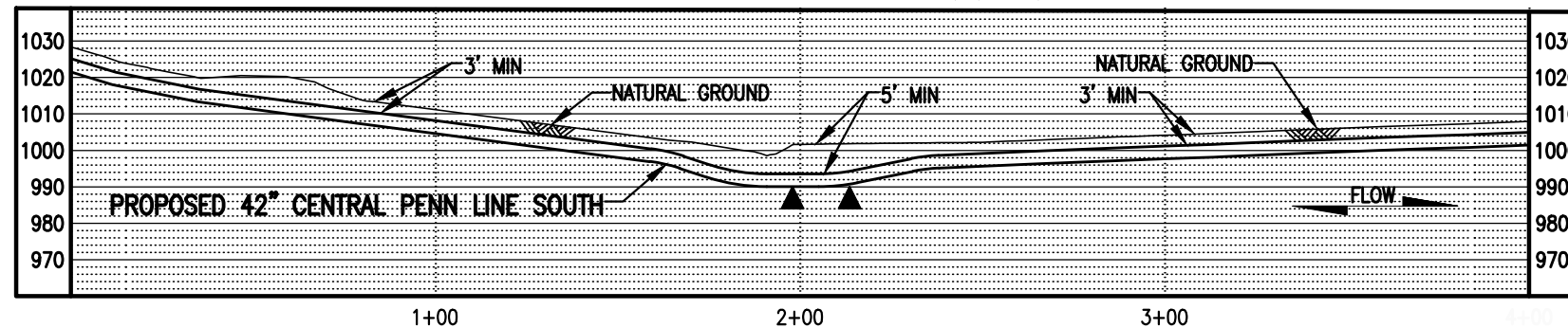
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	15.80
STREAM LENGTH	94.13

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T58-11001 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 M-0235 STATION 59+50 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 51.54' LT. OF M-0235 M.P. 1.15, ELEV. = 1001.43' (NAVD88).



LEGEND

- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- LIMITS OF DISTURBANCE
- PROPOSED CPLS R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- STREAM FLOW
- EXISTING POWER LINE
- 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
- 12" SEDIMENT BARRIER
- 18" SEDIMENT BARRIER
- 24" SEDIMENT BARRIER
- 32" SEDIMENT BARRIER
- TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

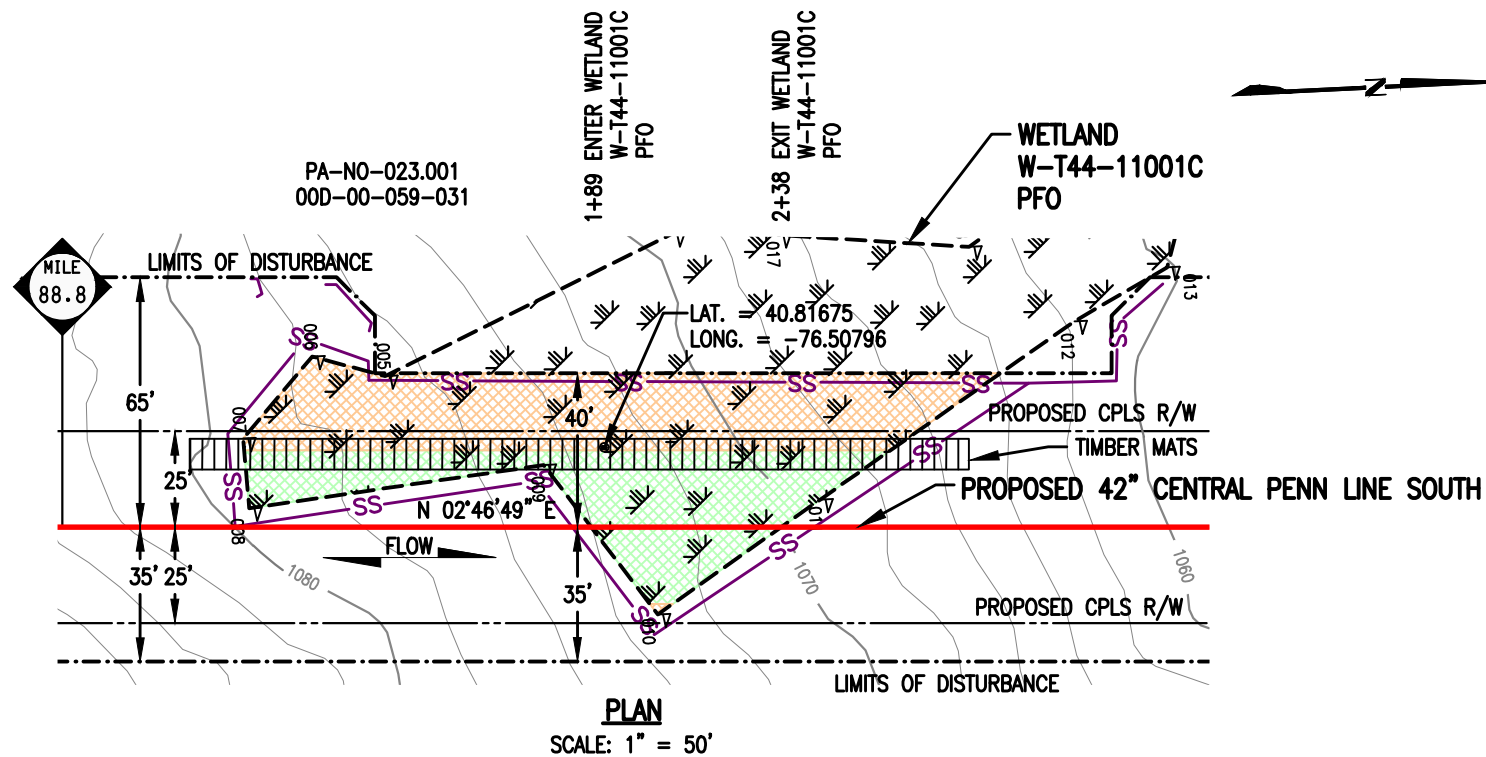
WOOD GROUP MUSTANG, INC.

DRAWING NO. _____ REFERENCE TITLE _____

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
STREAM CROSSING WW-T58-11001
● M-0235 M.P. 1.15
COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

Williams

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AD	DATE: 06/22/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	AD	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/05/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/M-0235-1.14-01	SHEET 1
							WC: 1161503	9/28/2016	2:29pm	OF 1

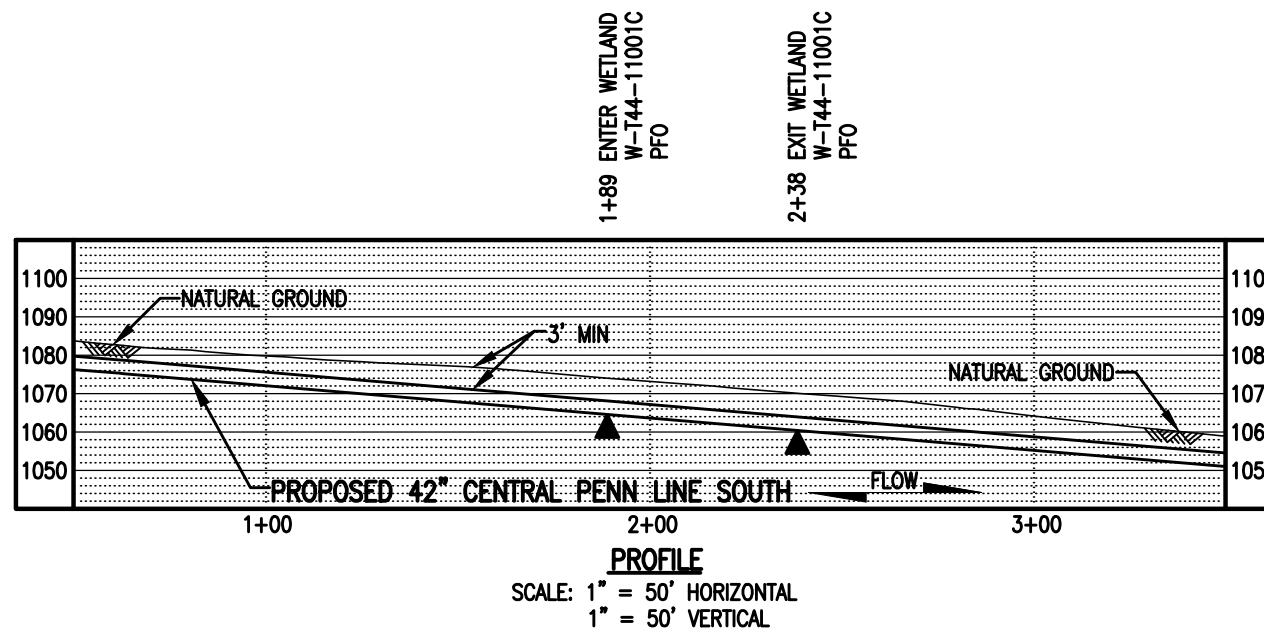


WETLAND DISTURBANCE:

WETLAND W-T44-11001C (EV)	ACRE
TEMPORARY DISTURBANCE	0.0824
PERMANENT DISTURBANCE	0.0623
TOTAL DISTURBANCE	0.1447

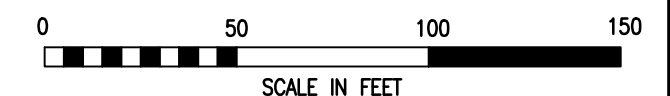
NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 4689+50 ON THE EROSION AND SEDIMENT CONTROL PLAN.



SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 131' RT. OF M.P. 88.71, ELEV.= 1143.54' (NAVD88).



THIS DRAWING SUPERCEDES 24-1600-70-20-A/88.81-01

LEGEND

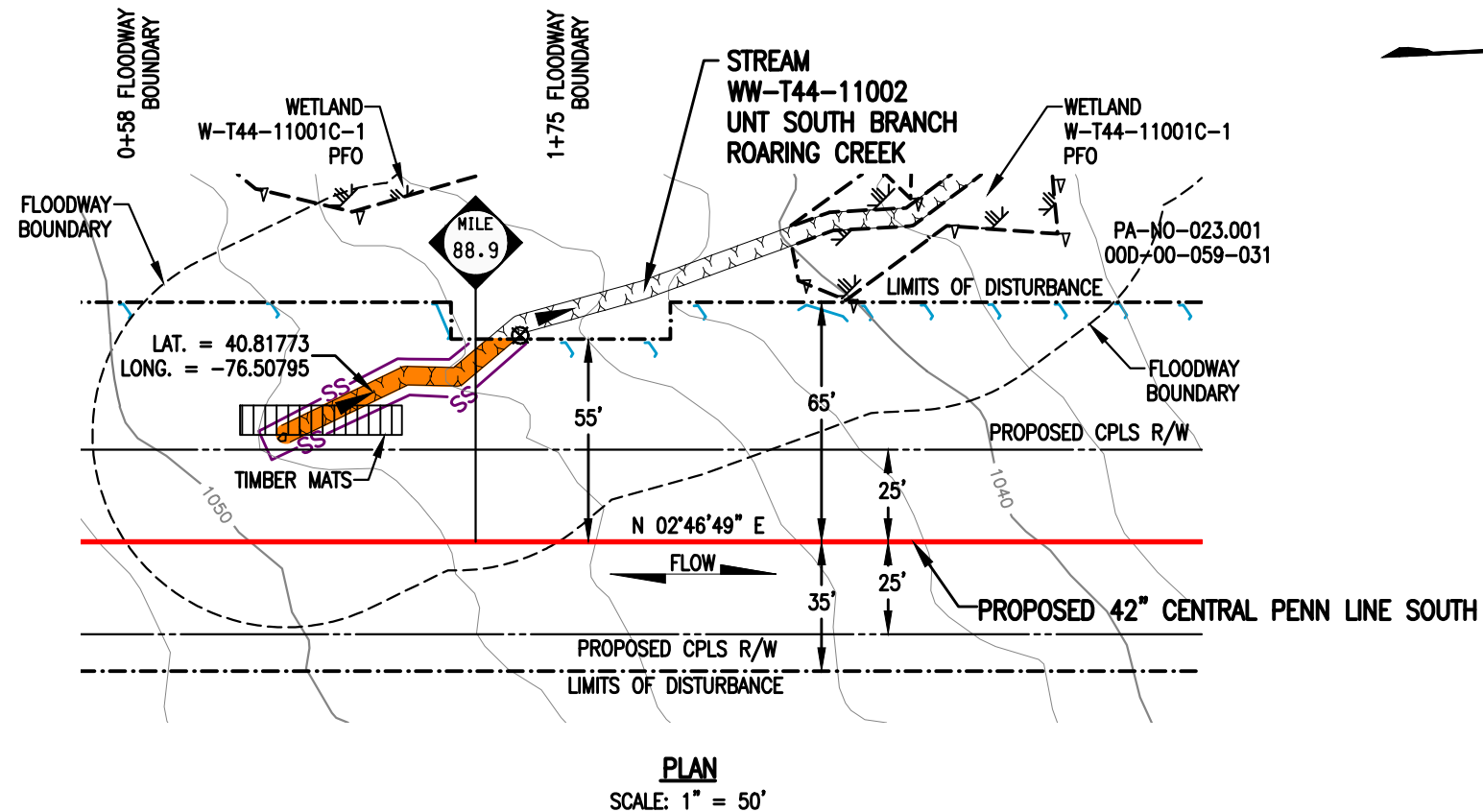
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLS R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- P — EXISTING POWER LINE
- X — EXISTING FENCE

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 WETLAND IMPACT
- TEMPORARY WETLAND IMPACT

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
WETLAND CROSSING W-T44-11001C
● M.P. 88.83
COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

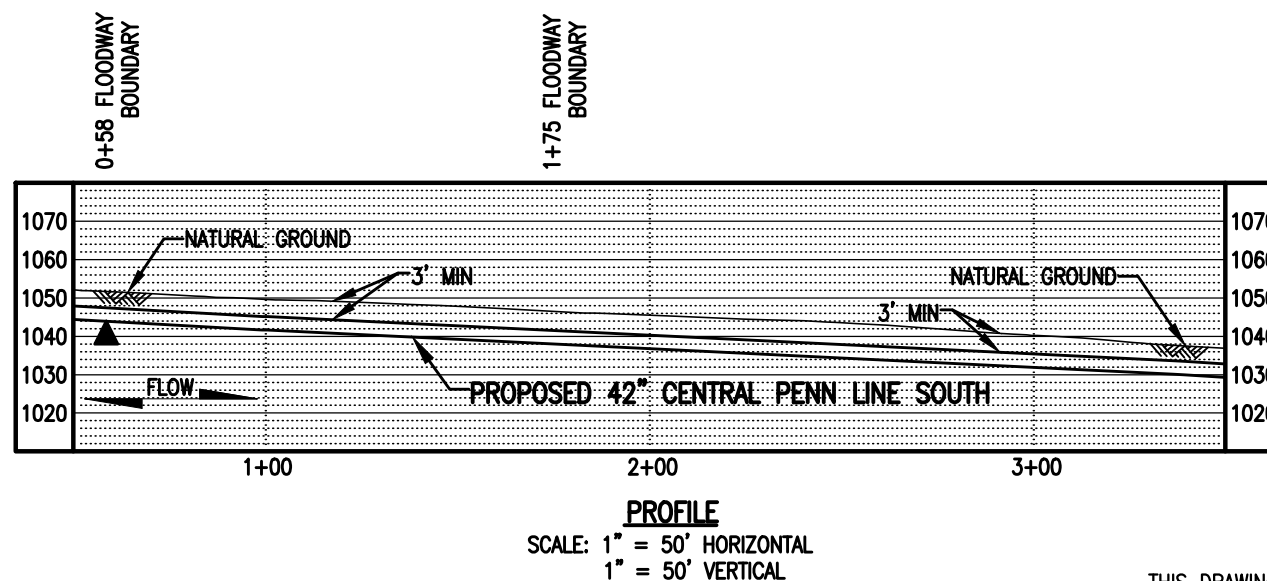
DRAWING NO.	REFERENCE TITLE	DRAWN BY: PGM	DATE: 07/14/15	ISSUED FOR BID:	SCALE: 1" = 50'
		CHECKED BY: CLR	DATE: 07/20/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
		APPROVED BY: MJH	DATE: 07/22/15	DRAWING NUMBER: 24-1600-70-20-A/88.81-02	SHEET 1
		W.O. NO. 1161503	CHK. CLR	APPROVED BY: MJH	OF 1
		NO. 0	DATE 07/30/15	BY CR	REVISION DESCRIPTION
		1	02/03/16	AKB	ISSUED FOR INTERNAL USE
		2	10/27/16	AT	ISSUED FOR PADEP SUBMITTAL #2



STREAM DISTURBANCE:

STREAM WW-T44-11002 (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0078
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0078
TEMPORARY FLOODWAY DISTURBANCE	0.2920
PERMANENT FLOODWAY DISTURBANCE	0.0268
TOTAL FLOODWAY DISTURBANCE	0.3188

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	9.69
STREAM LENGTH	65.92



GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE. STREAM WILL UTILIZE 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 4693+39 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 212.95' LT. OF M.P. 88.42, ELEV. = 1524.33' (NAVD88).

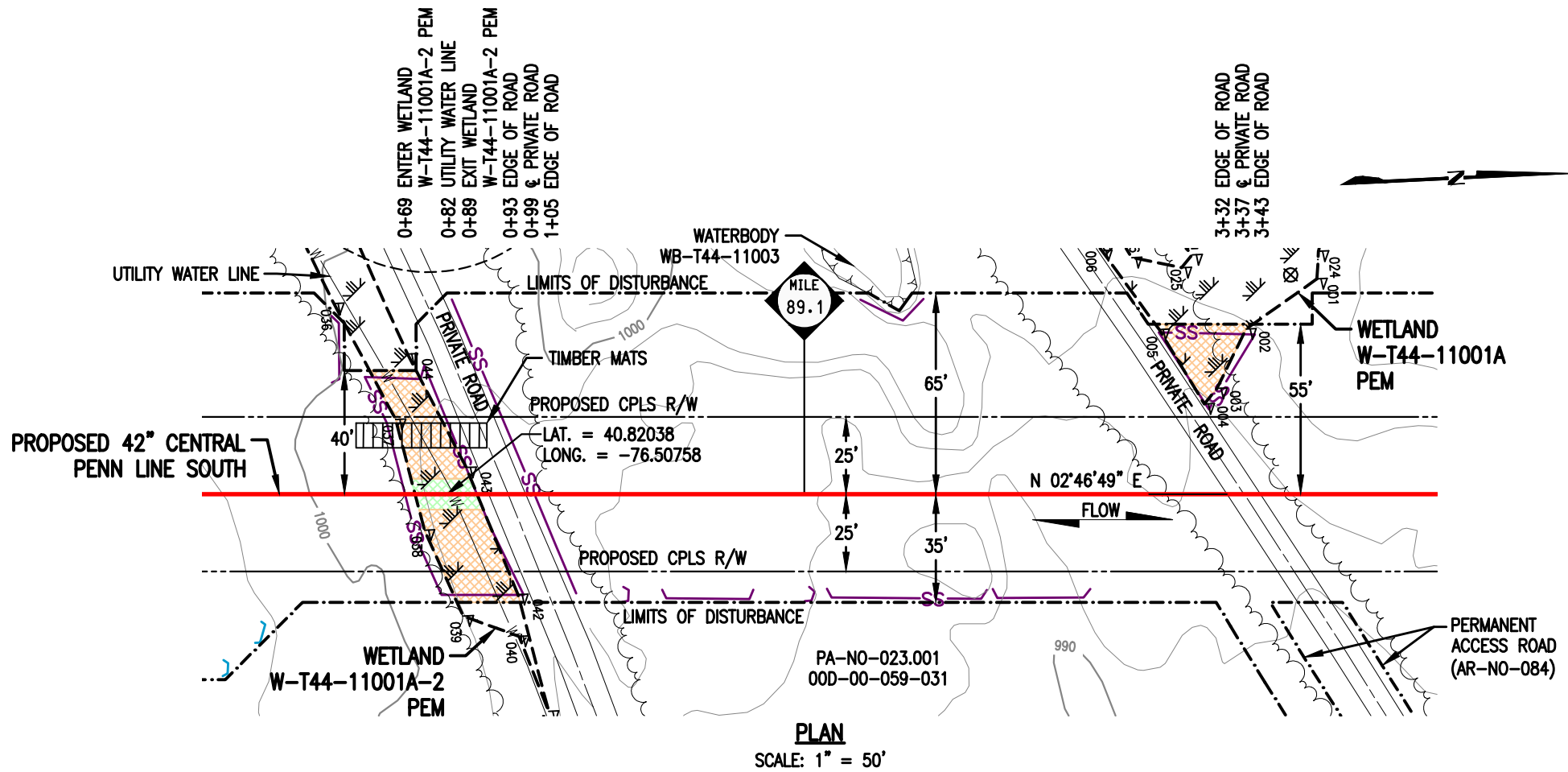


LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		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 CPLS 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				

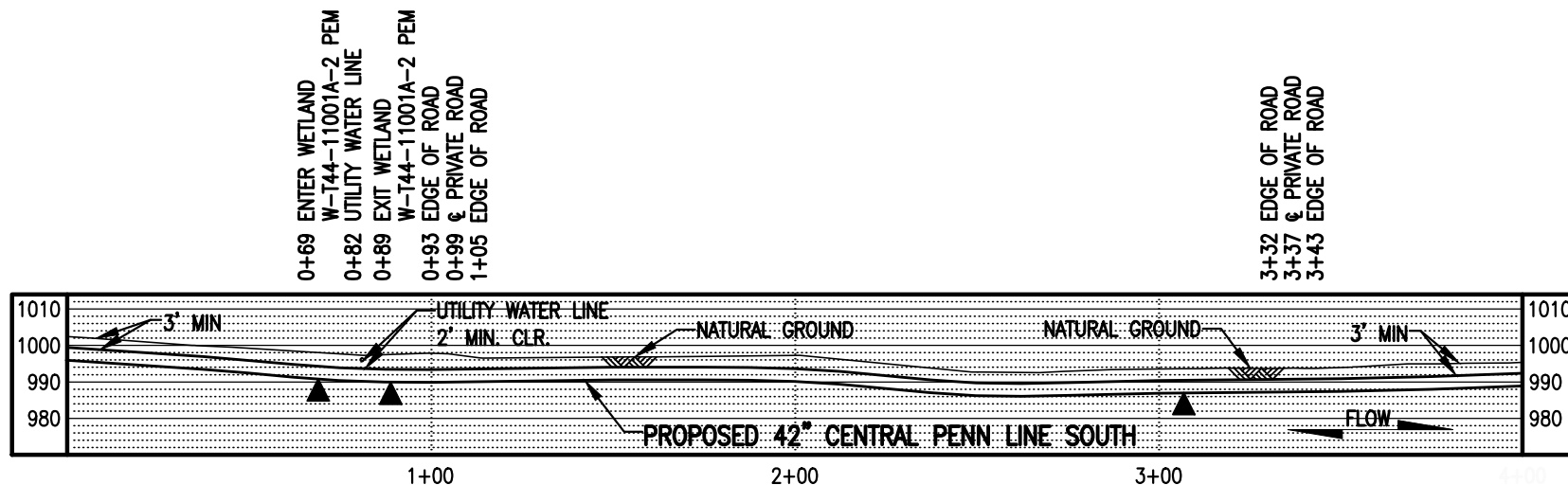
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DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T44-11002 M.P. 88.89 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: PGM	DATE: 07/08/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	05/22/15	MBS	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: JM	DATE: 07/17/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	AKB	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 07/22/15	DRAWING NUMBER: 24-1600-70-09-A/88.95-02	SHEET 1
2	10/27/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503		10/21/2016	OF 1



WETLAND DISTURBANCE:

WETLAND W-T44-11001A / W-T44-11001A-2 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0370
PERMANENT DISTURBANCE	0.0046
TOTAL DISTURBANCE	0.0416



NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 2+00 SHOWN IS EQUAL TO STATION 4704+53 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 41' LT. OF M.P. 89.12, ELEV. = 995.28' (NAVD88).



LEGEND

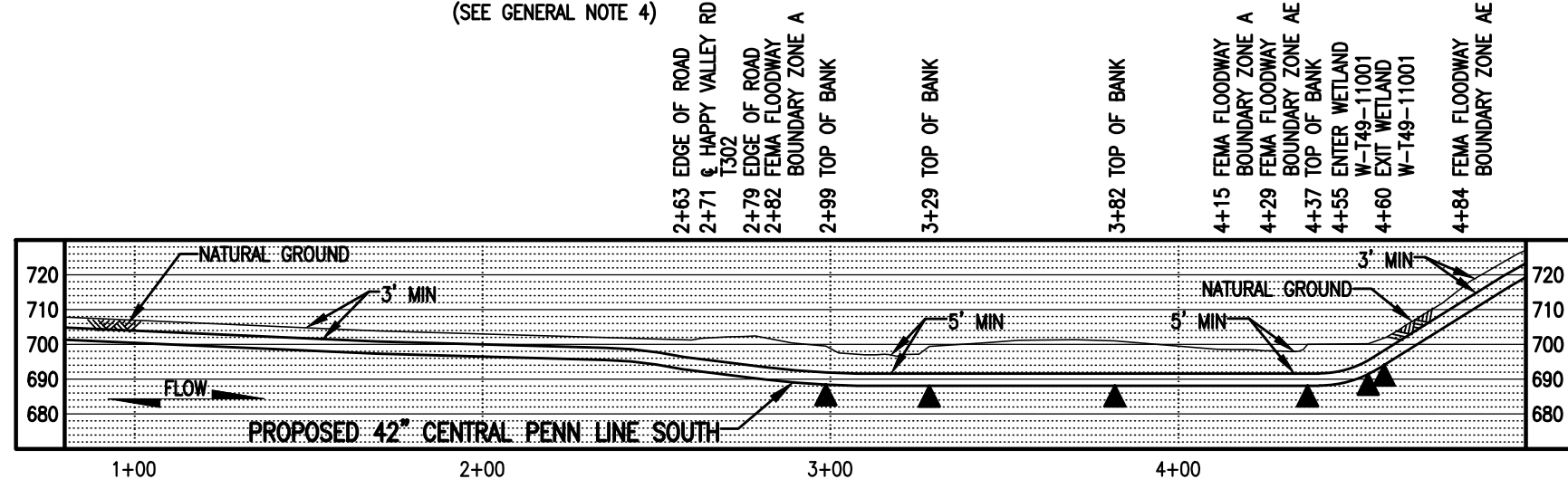
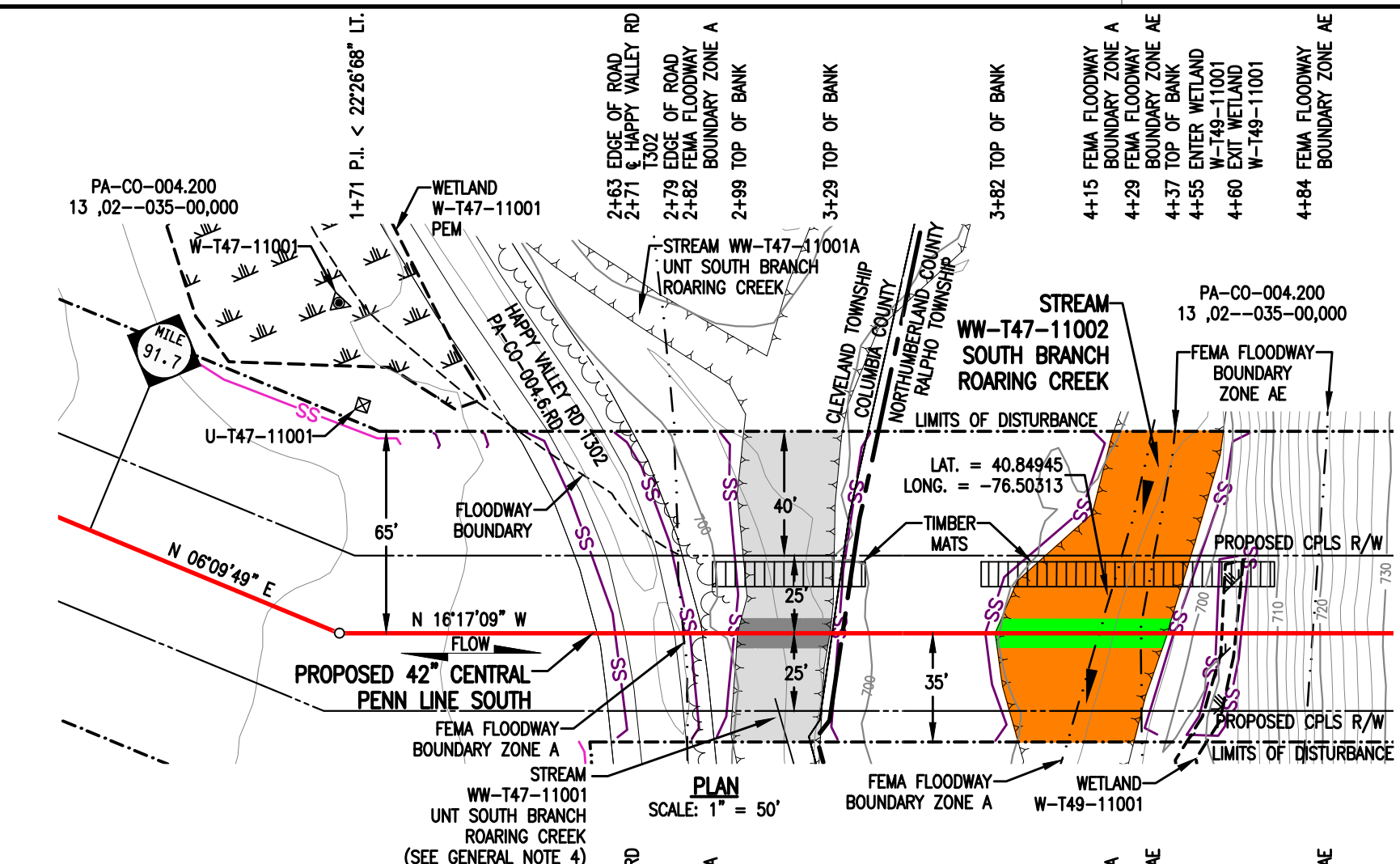
PROPOSED 42" CENTRAL PENN LINE SOUTH	WETLAND FLAGS	
EXISTING PIPELINES	PHOTO DATA POINT	
EXISTING TGPL R/W	WETLAND DATA POINT	12" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	18" SEDIMENT BARRIER
PROPOSED CPLS R/W	WELL POINT	24" SEDIMENT BARRIER
PROPERTY LINE	TRENCH PLUG	32" SEDIMENT BARRIER
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	

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH WETLAND CROSSINGS W-T44-11001A-2 & W-T44-11001A © M.P. 89.08 COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 07/05/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH		DATE: 07/06/16		DRAWING NUMBER: 24-1600-70-20-A/89.08-01		SHEET 1		OF 1		
WC: 1161503		10/21/2016		mlabell						

STREAM DISTURBANCE:

STREAM WW-T47-11002 (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0899
PERMANENT STREAM DISTURBANCE	0.0125
TOTAL STREAM DISTURBANCE	0.1024
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	55.43
STREAM LENGTH	103.20

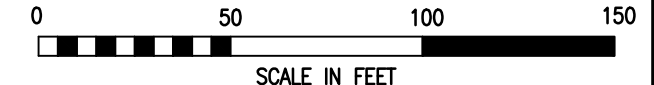


GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T47-11002 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 4+00 SHOWN IS EQUAL TO STATION 4844+93 ON THE EROSION AND SEDIMENT CONTROL PLAN.
4. IMPACT FOR STREAM WW-T47-11001 IS SHOWN ON DRAWING 24-1600-70-09-A/91.73-01, IN THE COLUMBIA CPLS PACKAGE.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 21' LT. OF M.P. 91.77, ELEV. = 700.28' (NAVD88).



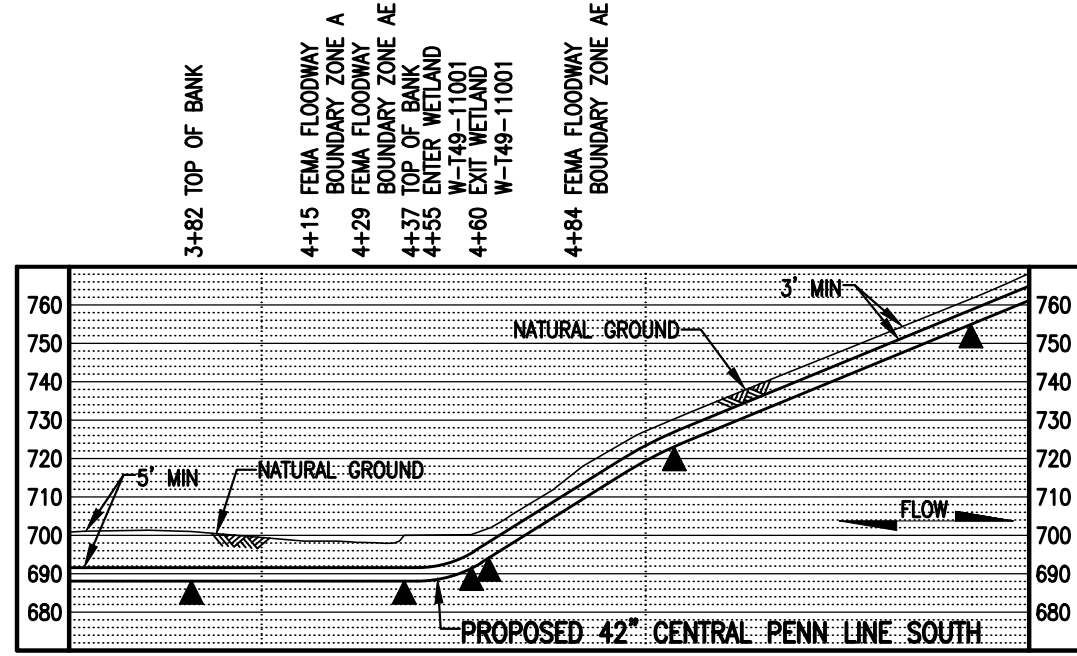
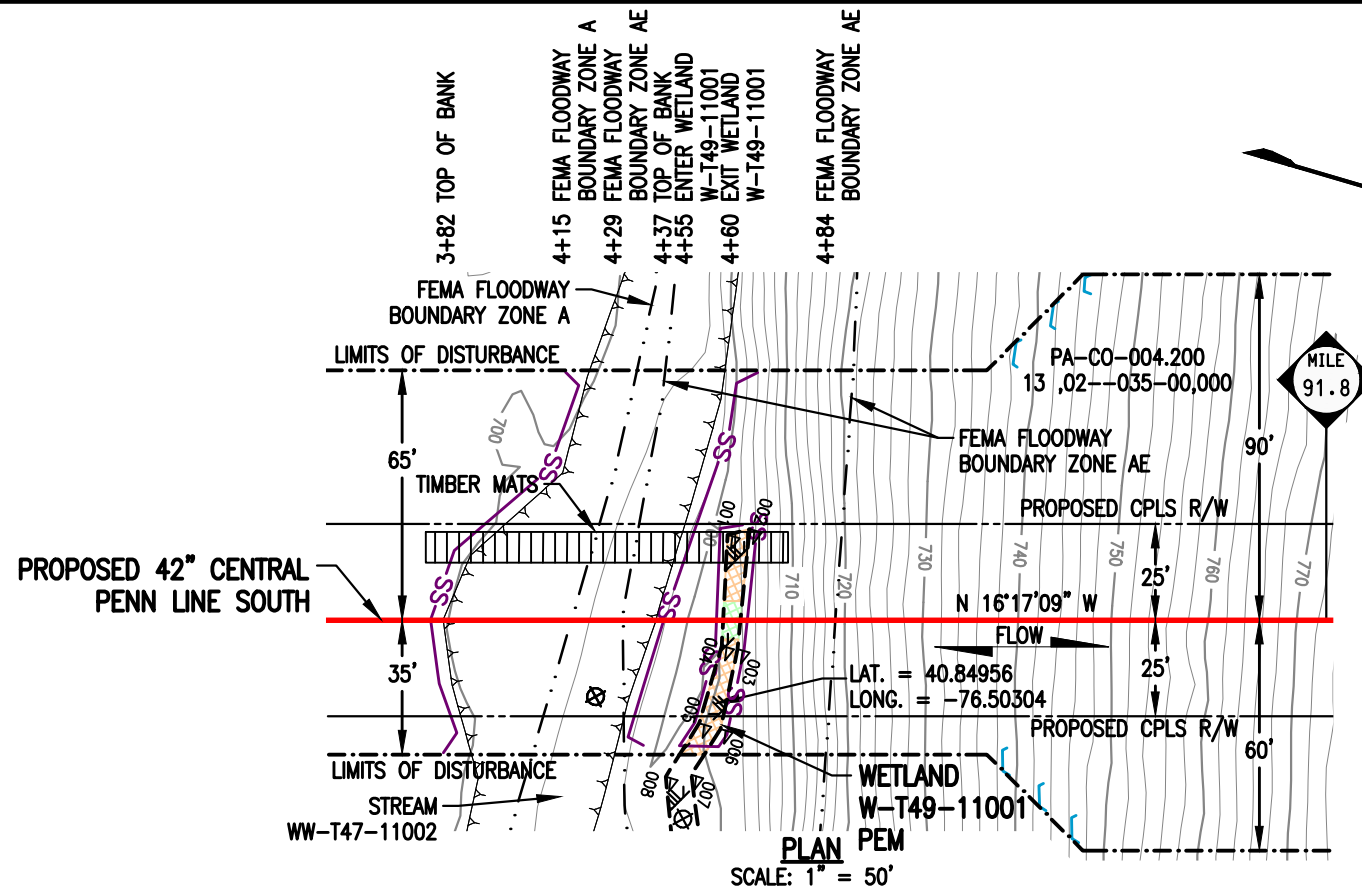
LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		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 CPLS 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		NO.		DATE		BY		REVISION DESCRIPTION		W.O. NO.		CHK.		APP.		DRAWN BY:		DATE:		ISSUED FOR BID:		SCALE:	
				0		02/03/16		LN		ISSUED FOR INTERNAL USE		1161503		CLR		MJH		PJM		07/08/15		ISSUED FOR CONSTRUCTION:		1" = 50'	
				1		10/27/16		AT		ISSUED FOR PADEP SUBMITTAL #2		1161503		CLR		MJH		JM		07/17/15		REVISION: 1			
																		APPROVED BY: MJH		DATE: 08/04/15		DRAWING NUMBER: 24-1600-70-09-A/91.74-01		SHEET 1 OF 1	

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCRoACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
STREAM CROSSING WW-T47-11002
© M.P. 91.76
RALPHO & CLEVELAND TOWNSHIP, NORTHUMBERLAND & COLUMBIA COUNTY, PENNSYLVANIA

IWO: 1161503
 10/21/2016
 K:\103643-CPLS\Maping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_91.74-01.dwg



WETLAND DISTURBANCE:

WETLAND W-T49-11001 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0059
PERMANENT DISTURBANCE	0.0010
TOTAL DISTURBANCE	0.0069

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 4+00 SHOWN IS EQUAL TO STATION 4844+93 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 21' LT. OF M.P. 91.77, ELEV. = 700.28' (NAVD88).

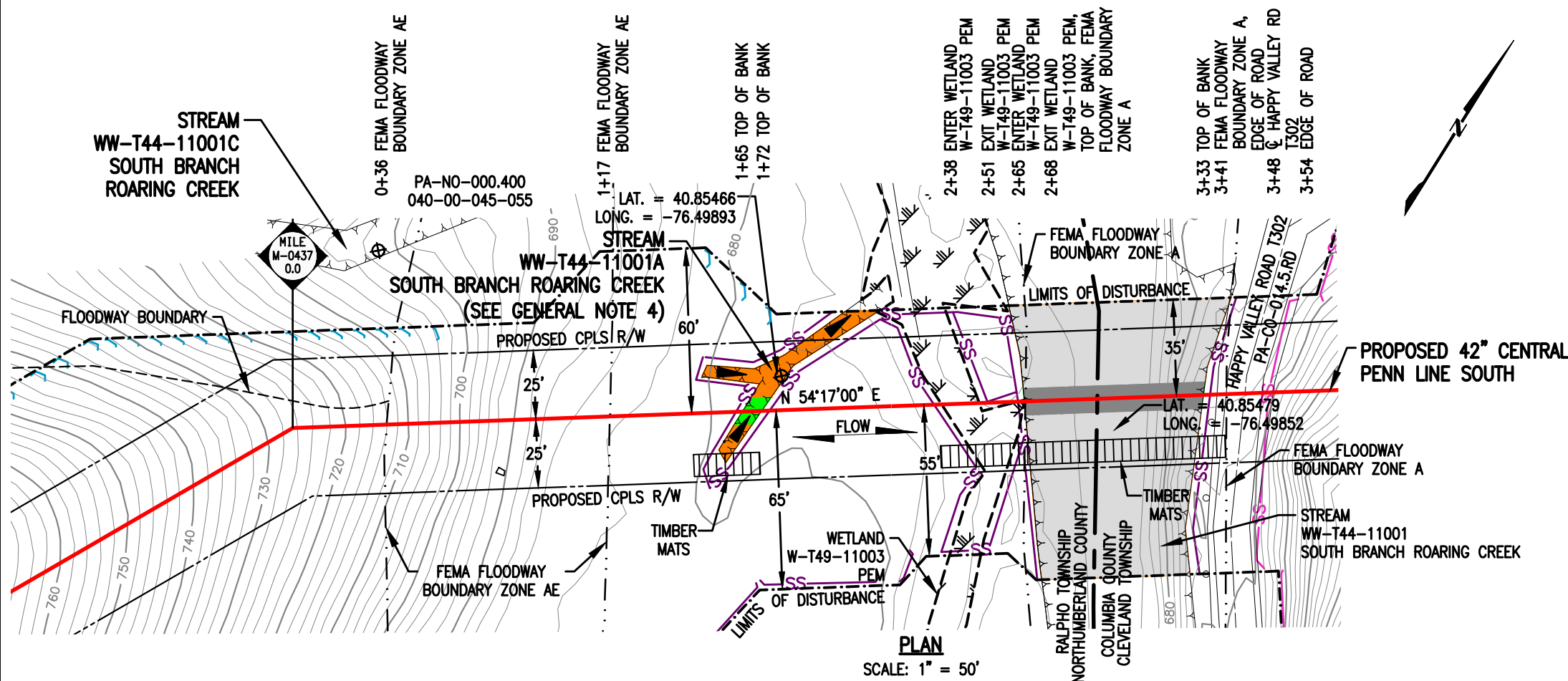


LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS	
	EXISTING PIPELINES		PHOTO DATA POINT	
	EXISTING TGPL R/W		WETLAND DATA POINT	
	LIMITS OF DISTURBANCE		UPLAND DATA POINT	
	PROPOSED CPLS 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
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	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 42" CENTRAL PENN LINE SOUTH WETLAND CROSSING W-T49-11001 M.P. 91.77 RALPHO TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA										
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 06/21/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	TL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/05/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-20-A/91.77-01	SHEET 1
							WO: 1161503		9/28/2016 t3le	OF 1



PLAN
SCALE: 1" = 50'

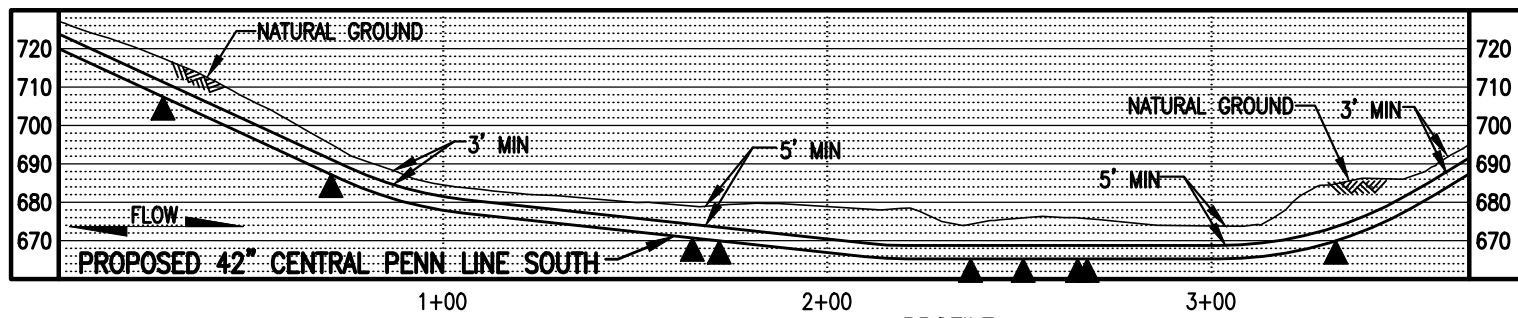
STREAM DISTURBANCE:

STREAM WW-T44-11001A (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0109
PERMANENT STREAM DISTURBANCE	0.0016
TOTAL STREAM DISTURBANCE	0.0125
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	6.99
STREAM LENGTH	128.82

STREAM WW-T44-11001C (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0537
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0537

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



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

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T44-11001A 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 1+00 SHOWN IS EQUAL TO M-0437 STATION 0+98 ON THE EROSION AND SEDIMENT CONTROL PLAN.
4. IMPACT FOR STREAM WW-T44-11001 IS SHOWN ON DRAWING NUMBER 24-1600-70-09-A/M-0437-0.06 IN THE COLUMBIA CPLS PACKAGE.

SURVEY NOTES:

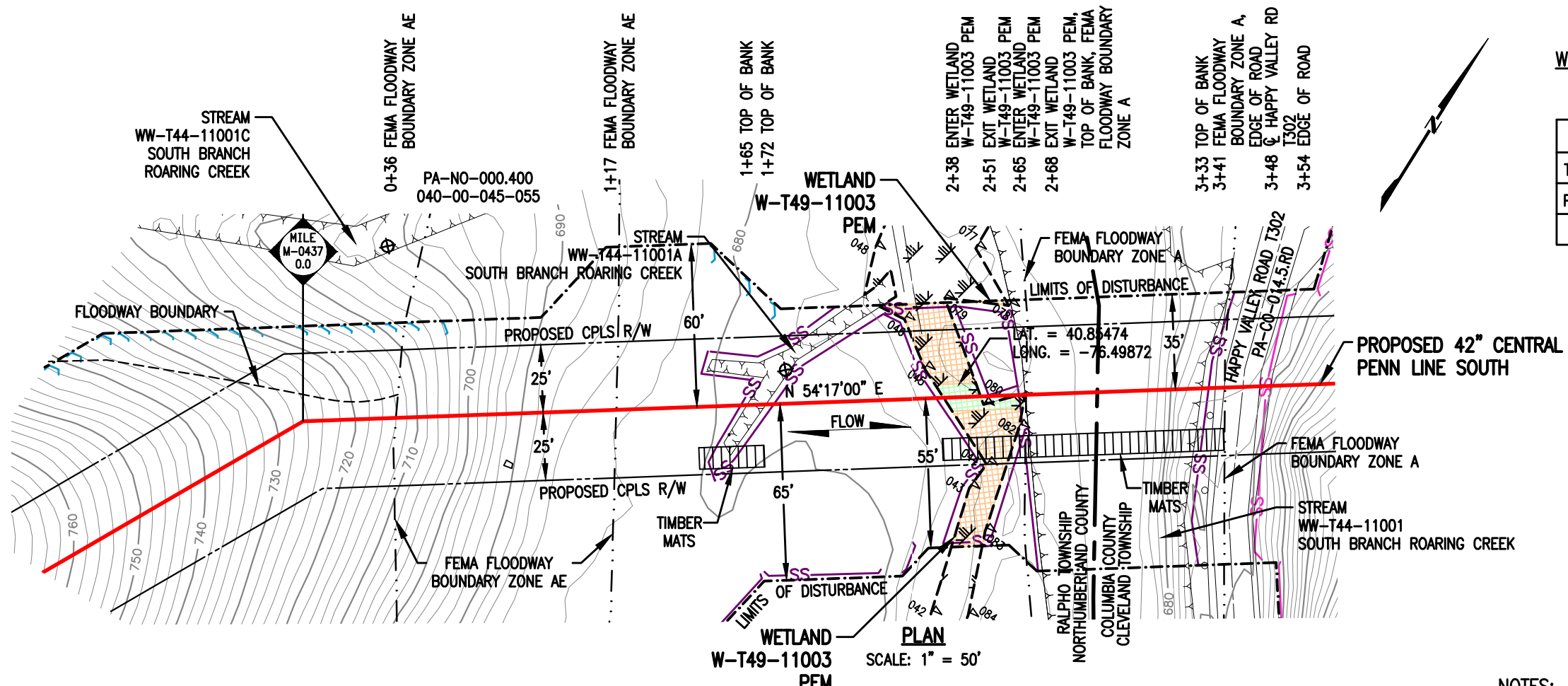
1. T.B.M. SURVEY CONTROL POINT - 176' RT. OF M-0437 M.P. 0.00, ELEV. = 679.48' (NAVD88).



LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		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 CPLS 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				

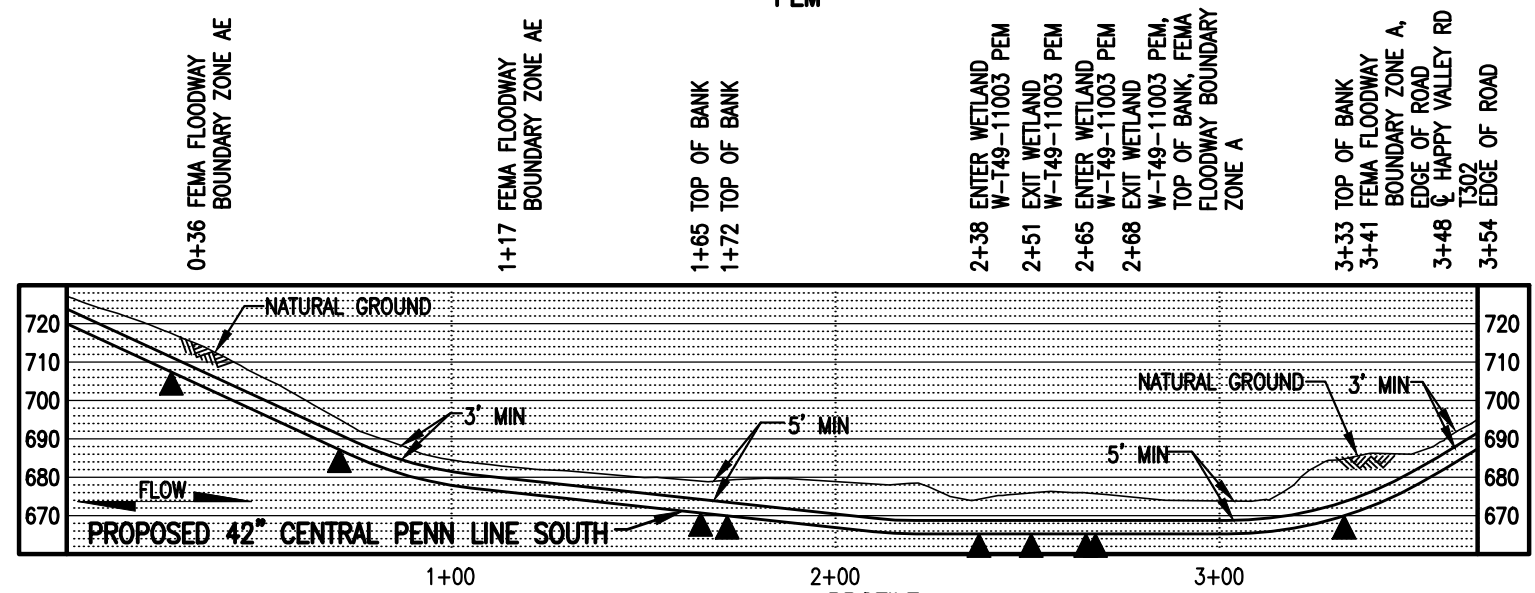
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T44-11001A & WW-T44-11001C © M-0437 M.P. 0.03 RALPHO TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: DJG	DATE: 09/09/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/27/16	DJG	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 09/09/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 09/23/16	DRAWING NUMBER: 24-1600-70-09-A/M-0437-0.03-01 SHEET 1	
							WO: 1161503	9/28/2016	OF 1	



WETLAND DISTURBANCE:

WETLAND W-T49-11003 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0275
PERMANENT DISTURBANCE	0.0044
TOTAL DISTURBANCE	0.0319

PLAN
SCALE: 1" = 50'



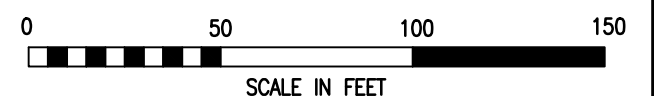
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0437 STATION 0+98 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

T.B.M. SURVEY CONTROL POINT - 176' RT. OF M-0437 M.P. 0.00, ELEV. = 679.48' (NAVD88).



LEGEND

PROPOSED 42" CENTRAL PENN LINE SOUTH	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 CPLS 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 42" CENTRAL PENN LINE SOUTH WETLAND CROSSING W-T49-11003 ● M-0437 M.P. 0.05 RALPHO TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: DJG CHECKED BY: CLR APPROVED BY: MJH IW: 1161503
0	10/27/16	DJG	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	DATE: 09/12/16 DATE: 09/12/16 DATE: 09/23/16 ISSUED FOR BID: ISSUED FOR CONSTRUCTION: DRAWING NUMBER: 24-1600-70-20-A/M-0437-0.05-01 3408pm 9/28/2016 t3le t3le SCALE: 1" = 50' REVISION: 0 SHEET 1 OF 1