



Transcontinental Gas Pipe Line Company LLC
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
WATER OBSTRUCTION AND
ENCROACHMENT PERMIT IMPACT MAPS

M.P. 90.99 TO M.P. 91.75 AND
M.P. 92.28 TO M-0323 M.P. 0.11
COLUMBIA COUNTY, PENNSYLVANIA

ISSUED DATE: OCTOBER 25, 2016

24-1600-70-09-A-02_Columbia-PKG
Issued for Submittal
Rev. 3

10/25/16

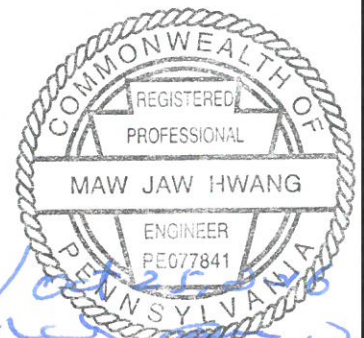
Supersedes 24-1600-70-09-A_Columbia-PKG



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M.P. 90.99 TO M.P. 91.75 AND
M.P. 92.28 TO M-0323 M.P. 0.11
COLUMBIA COUNTY, PENNSYLVANIA

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



MAW JAW HWANG
PA. PE NO. PE077841

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-20-A/90.99-01	INDEX SHEET	1 OF 10	3
24-1600-70-20-A/90.99-01	INDEX SHEET	2 OF 10	0
24-1600-70-20-A/90.99-01	NOTES SHEET	3 OF 10	1
24-1600-70-14-A/90.99-01	PROJECT LOCATION KEY MAP	4 OF 10	3
24-1600-70-14-A/90.99-01	PROJECT LOCATION KEY MAP	5 OF 10	3
24-1600-70-14-A/90.99-01	PROJECT LOCATION KEY MAP	6 OF 10	3
24-1600-70-14-A/90.99-01	PROJECT LOCATION KEY MAP	7 OF 10	3
24-1600-70-14-A/90.99-01	PROJECT LOCATION KEY MAP	8 OF 10	3
24-1600-70-14-A/90.99-01	PROJECT LOCATION KEY MAP	9 OF 10	3
24-1600-70-14-A/90.99-01	PROJECT LOCATION KEY MAP	10 OF 10	3
24-1600-70-09-A/90.99-01	WW-T45-11001 & WW-T51-11001	1 OF 1	2
24-1600-70-20-A/91.01-01	W-T49-11002	1 OF 1	0
24-1600-70-09-A/91.73-01	WW-T47-11001A & WW-T47-11001	1 OF 1	0
24-1600-70-09-A/91.74-01	WW-T47-11001, WW-T47-11001A & WW-T47-11002	1 OF 1	2
24-1600-70-09-A/92.29-01	WW-T44-11001	1 OF 1	0
24-1600-70-09-A/M-0437-0.06-01	WW-T44-11001	1 OF 1	0
24-1600-70-09-A/M-0271-0.09-01	WW-T44-11001	1 OF 1	1
24-1600-70-09-A/94.13-01	WW-T31-11001	1 OF 1	2
24-1600-70-20-A-94.32-01	W-T04-11004	1 OF 1	1
24-1600-70-09-A/94.43-01	WW-T04-11001, WW-T04-11001A	1 OF 4	0
24-1600-70-09-A/94.43-01	WW-T04-11001, WW-T04-11001A	2 OF 4	2
24-1600-70-09-A/94.43-01	WW-T04-11001, WW-T04-11001A	3 OF 4	1
24-1600-70-09-A/94.43-01	WW-T04-11001, WW-T04-11001A	4 OF 4	1
24-1600-70-09-A/94.96-01	WW-T04-11002	1 OF 4	2
24-1600-70-09-A/94.96-01	WW-T04-11002	2 OF 4	1
24-1600-70-09-A/94.96-01	WW-T04-11002	3 OF 4	1
24-1600-70-09-A/94.96-01	WW-T04-11002	4 OF 4	1
24-1600-70-09-A/95.29-01	WW-T28-12005	1 OF 1	2
24-1600-70-09-A/95.44-01	WW-T28-12004	1 OF 1	2
24-1600-70-09-A/95.85-01	WB-T35-11001 & WW-T35-11001	1 OF 2	1
24-1600-70-09-A/95.85-01	WB-T35-11001 & WW-T35-11001	2 OF 2	2
24-1600-70-09-A/99.63-01	WW-RS-99108	1 OF 1	0

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-09-A/99.66-01	WW-T04-12001	1 OF 4	1
24-1600-70-09-A/99.66-01	WW-T04-12001	2 OF 4	1
24-1600-70-09-A/99.66-01	WW-T04-12001	3 OF 4	1
24-1600-70-09-A/99.66-01	WW-T04-12001	4 OF 4	1
24-1600-70-20-A/99.82-01	W-T04-12001C	1 OF 1	1
24-1600-70-09-A/AR-CO-094.1.1-01	WW-T47-12001	1 OF 1	1
24-1600-70-09-A/101.46-01	WW-T28-12002	1 OF 1	0
24-1600-70-20-A/101.50-01	W-T04-12002C & W-T04-12002A	1 OF 2	2
24-1600-70-20-A/101.50-01	W-T04-12002C & W-T04-12002A	2 OF 2	1
24-1600-70-09-A/101.61-01	WW-T04-12002, WW-T04-12003 & WW-T04-12004	1 OF 1	2
24-1600-70-09-A/101.64-01	WW-T04-12005 & WW-T04-12005A	1 OF 1	2
24-1600-70-20-A/101.65-01	W-T04-12004/W-T04-12004-1	1 OF 1	2
24-1600-70-09-A/102.01-01	WW-T04-12006	1 OF 1	1
24-1600-70-09-A/AR-CO-094.1.2-01	WW-T01-12002	1 OF 1	0
24-1600-70-09-A/M-0423-0.3-01	WW-RS-80012	1 OF 1	0
24-1600-70-09-A/M-0423-1.47-01	WW-T70-12003 & WW-T70-12003A	1 OF 1	0
24-1600-70-20-A/M-0423-1.50-01	W-T70-12005A & W-T70-12005B	1 OF 1	0
24-1600-70-09-A/AR-CO-094.1.3-01	WW-T70-12003A & WW-T70-12003	1 OF 1	0
24-1600-70-09-A/M-0423-1.67-01	WW-T70-12001	1 OF 1	0
24-1600-70-20-A/M-0423-1.76-01	W-T70-12009	1 OF 1	0
24-1600-70-20-A/M-0423-2.31-01	W-RS-110003 & W-RS-110004	1 OF 1	0
24-1600-70-09-A/M-0423-3.00-01	WW-T70-12011 & WW-T70-12006	1 OF 2	0
24-1600-70-09-A/M-0423-3.00-01	WW-T70-12011 & WW-T70-12006	2 OF 2	0
24-1600-70-20-A/M-0423-3.02-01	W-T70-12010A-1 / W-T70-12010A-2	1 OF 1	0
24-1600-70-20-A/M-0423-3.28-01	W-T70-12008	1 OF 1	0
24-1600-70-09-A/M-0423-3.28-01	WW-T70-12010-1, WW-T70-12006 & WW-T70-12010	1 OF 5	0
24-1600-70-09-A/M-0423-3.28-01	WW-T70-12010-1, WW-T70-12006 & WW-T70-12010	2 OF 5	0
24-1600-70-09-A/M-0423-3.28-01	WW-T70-12010-1, WW-T70-12006 & WW-T70-12010	3 OF 5	0
24-1600-70-09-A/M-0423-3.28-01	WW-T70-12010-1, WW-T70-12006 & WW-T70-12010	4 OF 5	0
24-1600-70-09-A/M-0423-3.28-01	WW-T70-12010-1, WW-T70-12006 & WW-T70-12010	5 OF 5	0
24-1600-70-09-A/AR-CO-097.1-01	WW-T70-12006	1 OF 1	0
24-1600-70-20-A/M-0423-3.57-01	W-T70-12007	1 OF 1	0
24-1600-70-09-A/M-0423-3.83-01	WW-T70-12012	1 OF 1	0
24-1600-70-20-A/M-0423-4.76-01	W-T01-12004	1 OF 1	0
24-1600-70-09-A/M-0423-4.77-01	WW-T01-12005	1 OF 1	0

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-09-A/M-0236-0.48-01	WW-T01-12006	1 OF 1	1
24-1600-70-09-A/107.02-01	WW-RS-12002, WW-RS-99103, WW-T52-13001C, WW-T52-13001 & WW-RS-99104	1 OF 7	0
24-1600-70-09-A/107.02-01	WW-RS-12002, WW-RS-99103, WW-T52-13001C, WW-T52-13001 & WW-RS-99104	2 OF 7	0
24-1600-70-09-A/107.02-01	WW-RS-12002, WW-RS-99103, WW-T52-13001C, WW-T52-13001 & WW-RS-99104	3 OF 7	0
24-1600-70-09-A/107.02-01	WW-RS-12002, WW-RS-99103, WW-T52-13001C, WW-T52-13001 & WW-RS-99104	4 OF 7	0
24-1600-70-09-A/107.02-01	WW-RS-12002, WW-RS-99103, WW-T52-13001C, WW-T52-13001 & WW-RS-99104	5 OF 7	0
24-1600-70-09-A/107.02-01	WW-RS-12002, WW-RS-99103, WW-T52-13001C, WW-T52-13001 & WW-RS-99104	6 OF 7	0
24-1600-70-09-A/107.02-01	WW-RS-12002, WW-RS-99103, WW-T52-13001C, WW-T52-13001 & WW-RS-99104	7 OF 7	0
24-1600-70-20-A/107.11-01	W-RS-12003A	1 OF 1	0
24-1600-70-09-A/102.82-01	WW-T34-12001, WW-T34-12001A, WW-T34-12002 & WW-T34-12002A	1 OF 1	2
24-1600-70-20-A/102.83-01	W-T34-12001	1 OF 1	0
24-1600-70-20-A/103.61-01	W-T47-12002	1 OF 1	0
24-1600-70-09-A/103.74-01	WW-T21-CS610D101 & WW-T21-CS610D101A	1 OF 1	1
24-1600-70-09-A/103.74-01	WW-T21-CS610D101 & WW-T21-CS610D101A	2 OF 2	0
24-1600-70-09-A/103.92-01	WW-T01-12001A	1 OF 1	1
24-1600-70-09-A/104.13-01	WW-T01-12001	1 OF 1	1
24-1600-70-20-A/104.13-01	W-T01-12001A & W-T01-12001B	1 OF 3	1
24-1600-70-20-A/104.13-01	W-T01-12001A & W-T01-12001B	2 OF 3	0
24-1600-70-20-A/104.13-01	W-T01-12001A & W-T01-12001B	3 OF 3	0
24-1600-70-20-A/104.25-01	WW-T01-12001 & WW-T90-13002	1 OF 2	1
24-1600-70-20-A/104.25-01	WW-T01-12001 & WW-T90-13002	2 OF 2	1
24-1600-70-20-A/104.49-01	W-T01-12002	1 OF 1	1
24-1600-70-09-A/104.79-01	WW-T01-12003	1 OF 3	1
24-1600-70-09-A/104.79-01	WW-T01-12003	2 OF 3	0
24-1600-70-09-A/104.79-01	WW-T01-12003	3 OF 3	0
24-1600-70-09-A/104.92-01	WW-T01-12003B	1 OF 1	1
24-1600-70-20-A/105.07-01	W-T01-12003 / W-T01-12003-1	1 OF 1	1
24-1600-70-20-A/105.07-01	W-T01-12003 / W-T01-12003-1	2 OF 2	0
24-1600-70-09-A/M-0171-0.73-01	WW-T01-12006	1 OF 1	0
24-1600-70-09-A/108.67-01	WW-T01-13002	1 OF 1	2
24-1600-70-09-A/108.75-01	WW-T01-13003	1 OF 1	2

GENERAL NOTE:

- 1. RED TEXT REPRESENTS REMOTE SENSING FEATURE.



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 INDEX SHEET M.P. 90.99 TO M.P. 91.75 AND M.P. 92.28 TO M-0323 M.P. 0.11 COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MBS	DATE: 05/19/15	ISSUED FOR BID:	SCALE:
0	08/20/15	THL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 05/19/15	ISSUED FOR CONSTRUCTION:	REVISION: 3
1	11/20/15	AT	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/05/15	DRAWING NUMBER: 24-1600-70-20-A/90.99-01	SHEET 1
2	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	W.C.:	1161503	10/26/2016	OF 10
3	10/25/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	<small>K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\COLUMBIA_CD01-CPLS_PDEP_INDEX_COLUMBIA.dwg</small>			

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-20-A/109.16-01	W-T01-13001	1 OF 1	1
24-1600-70-09-A/109.17-01	WW-T01-13004	1 OF 1	1
24-1600-70-09-A/109.93-01	WW-T06-13001	1 OF 1	2
24-1600-70-20-A/109.95-01	W-T06-13002	1 OF 1	1
24-1600-70-20-A/110.19-01	W-T06-13003A, W-T06-13003C & W-T06-13003B	1 OF 1	1
24-1600-70-09-A/110.20-01	WW-T06-13002	1 OF 1	1
24-1600-70-09-A/110.53-01	WW-T90-13001	1 OF 1	1
24-1600-70-20-A/110.53-01	W-T06-13005	1 OF 1	1
24-1600-70-20-A/111.12-01	W-T63-14001	1 OF 1	0
24-1600-70-20-A/111.22-01	W-T35-13002	1 OF 1	2
24-1600-70-09-A/111.23-01	WW-T35-13002	1 OF 1	1
24-1600-70-20-A/111.57-01	W-T35-13001	1 OF 1	1
24-1600-70-09-A/111.59-01	WW-T35-13001	1 OF 1	1
24-1600-70-20-A/113.37-01	W-T21-13002	1 OF 1	1
24-1600-70-09-A/113.37-01	WW-T90-14003	1 OF 1	1
24-1600-70-20-A/113.43-01	W-T21-13001	1 OF 1	1
24-1600-70-09-A/113.43-01	WW-T21-13001	1 OF 1	2
24-1600-70-20-A/113.53-01	W-T90-14005A / W-T90-14005A-1	1 OF 1	2
24-1600-70-09-A/113.54-01	WW-T21-13001A	1 OF 2	2
24-1600-70-09-A/113.54-01	WW-T21-13001A	2 OF 2	0
24-1600-70-09-A/115.44-01	WW-T16-14003	1 OF 1	2
24-1600-70-20-A/115.45-01	W-T16-14001A / W-T16-14001A-1 & W-T44-14001A	1 OF 1	2
24-1600-70-09-A/116.01-01	WW-T16-14001	1 OF 1	1
24-1600-70-20-A/118.06-01	W-T10-14001B & W-T10-14001A	1 OF 1	1
24-1600-70-09-A/118.06-01	WW-T16-14002	1 OF 1	1
24-1600-70-09-A/119.18-01	WW-T15-14002	1 OF 1	1
24-1600-70-09-A/119.26-01	WW-T15-14003	1 OF 1	2
24-1600-70-09-A/119.90-01	WW-T15-14005 & WW-T15-14006	1 OF 1	2
24-1600-70-20-A/120.08-01	W-T15-14003	1 OF 1	1
24-1600-70-09-A/120.11-01	WW-T15-14007 & WW-T15-14007A	1 OF 1	1
24-1600-70-09-A/AR-CO-106-01	WW-T67-13001 & WW-T67-13002	1 OF 1	0
24-1600-70-20-A/121.28-01	W-T15-14004	1 OF 1	1
24-1600-70-09-A/121.28-01	WW-T15-14008	1 OF 1	1
24-1600-70-09-A/122.62-01	WW-T17-14001	1 OF 1	2

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1600-70-09-A/123.12-01	WW-T17-14002	1 OF 1	2
24-1600-70-09-A/123.20-01	WW-T17-14003	1 OF 2	1
24-1600-70-09-A/123.20-01	WW-T17-14003	2 OF 2	0
24-1600-70-09-A/123.33-01	WW-T02-14001	1 OF 1	2
24-1600-70-20-A/123.34-01	W-T02-14001	1 OF 1	2
24-1600-70-09-A/124.59-01	WW-T06-14002	1 OF 1	1
24-1600-70-09-A/124.67-01	WW-T06-14001	1 OF 1	2
24-1600-70-20-A/124.69-01	W-T06-14001	1 OF 1	1
24-1600-70-26-A/BEC-01	TYPICAL BRIDGE EQUIPMENT CROSSING DETAIL - BEC	1 OF 1	1



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 INDEX SHEET M.P. 90.99 TO M.P. 91.75 AND M.P. 92.28 TO M-0323 M.P. 0.11 COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL DATE: 07/06/16 ISSUED FOR BID: CHECKED BY: CLR DATE: 07/06/16 ISSUED FOR CONSTRUCTION: APPROVED BY: MJH DATE: 07/06/16 DRAWING NUMBER: 24-1600-70-20-A/90.99-01 SHEET 2 WO: 1161503 10/13am 10/26/2016 t3le OF 10 <small>K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\COLUMBIA_CD01-CPLS_PDEP_INDEX_COLUMBIA.dwg</small>
0	10/25/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	SCALE: REVISION: 0



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:

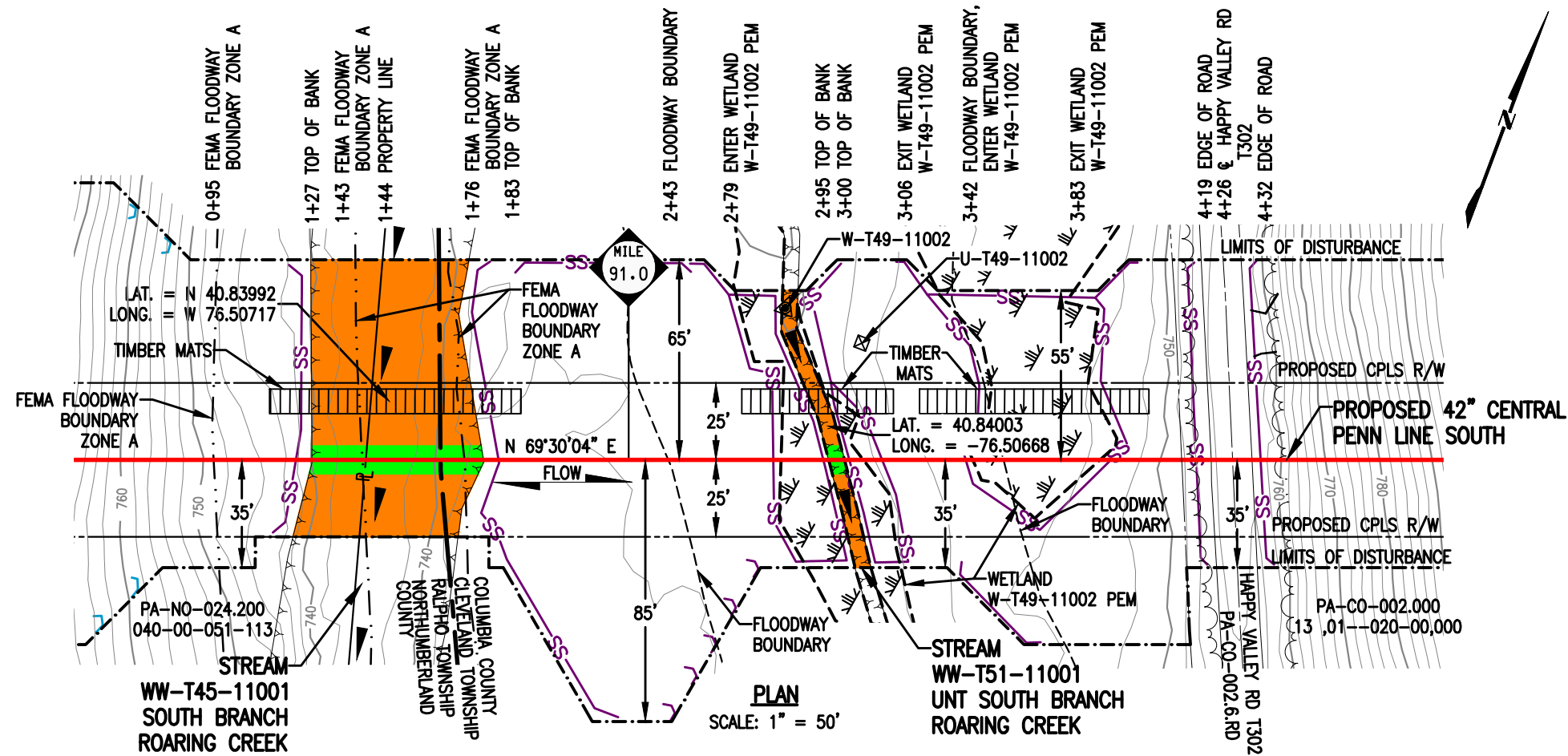
1. BEARINGS SHOWN ARE GRID BEARINGS REFERENCED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM NORTH ZONE, NAD83.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88.
3. GEOGRAPHICAL COORDINATES REPRESENTED IN THE DRAWINGS ARE SHOWN IN WGS 1984, LATITUDE AND LONGITUDE, DECIMAL DEGREES.

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



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 NOTES SHEET M.P. 90.99 TO M.P. 91.75 AND M.P. 92.28 TO M-0323 M.P. 0.11 COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MBS	DATE: 05/19/15	ISSUED FOR BID:	SCALE: NTS
0	08/20/15	CR	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 05/19/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/90.99-01	SHEET 3
WO: 1161503								10/25/2016		OF 10





STREAM DISTURBANCE:

STREAM WW-T45-11001 (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0946
PERMANENT STREAM DISTURBANCE	0.0127
TOTAL STREAM DISTURBANCE	0.1073
TEMPORARY FLOODWAY DISTURBANCE	0.0593
PERMANENT FLOODWAY DISTURBANCE	0.0073
TOTAL FLOODWAY DISTURBANCE	0.0666

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	55.71
STREAM LENGTH	90.49

STREAM WW-T51-11001 (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0096
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0108
TEMPORARY FLOODWAY DISTURBANCE	0.1860
PERMANENT FLOODWAY DISTURBANCE	0.0168
TOTAL FLOODWAY DISTURBANCE	0.2028

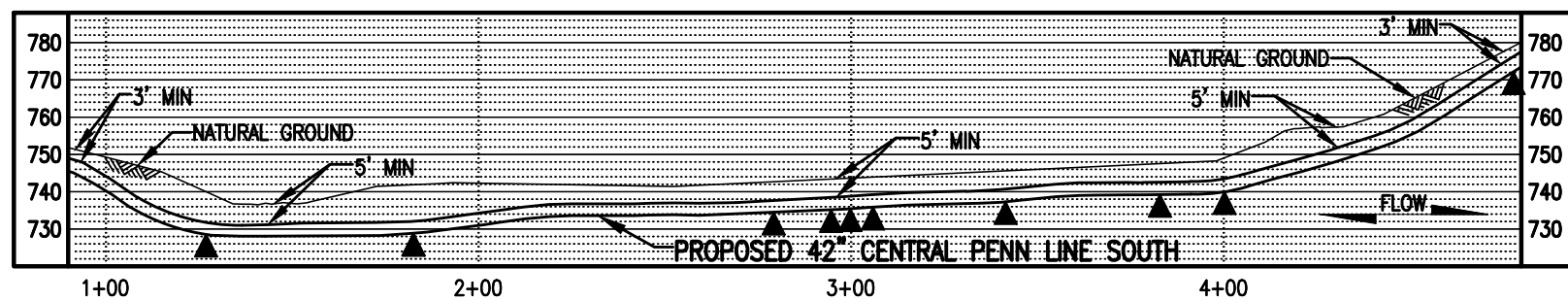
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.16
STREAM LENGTH	93.88

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. (PERTAINS TO STREAM WW-T51-11001)
3. THIS STREAM WW-T45-11001 IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
4. STATION 1+00 SHOWN IS EQUAL TO STATION 4803+50 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 79' RT. OF M.P. 90.98, ELEV. = 750.51' (NAVD88).



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

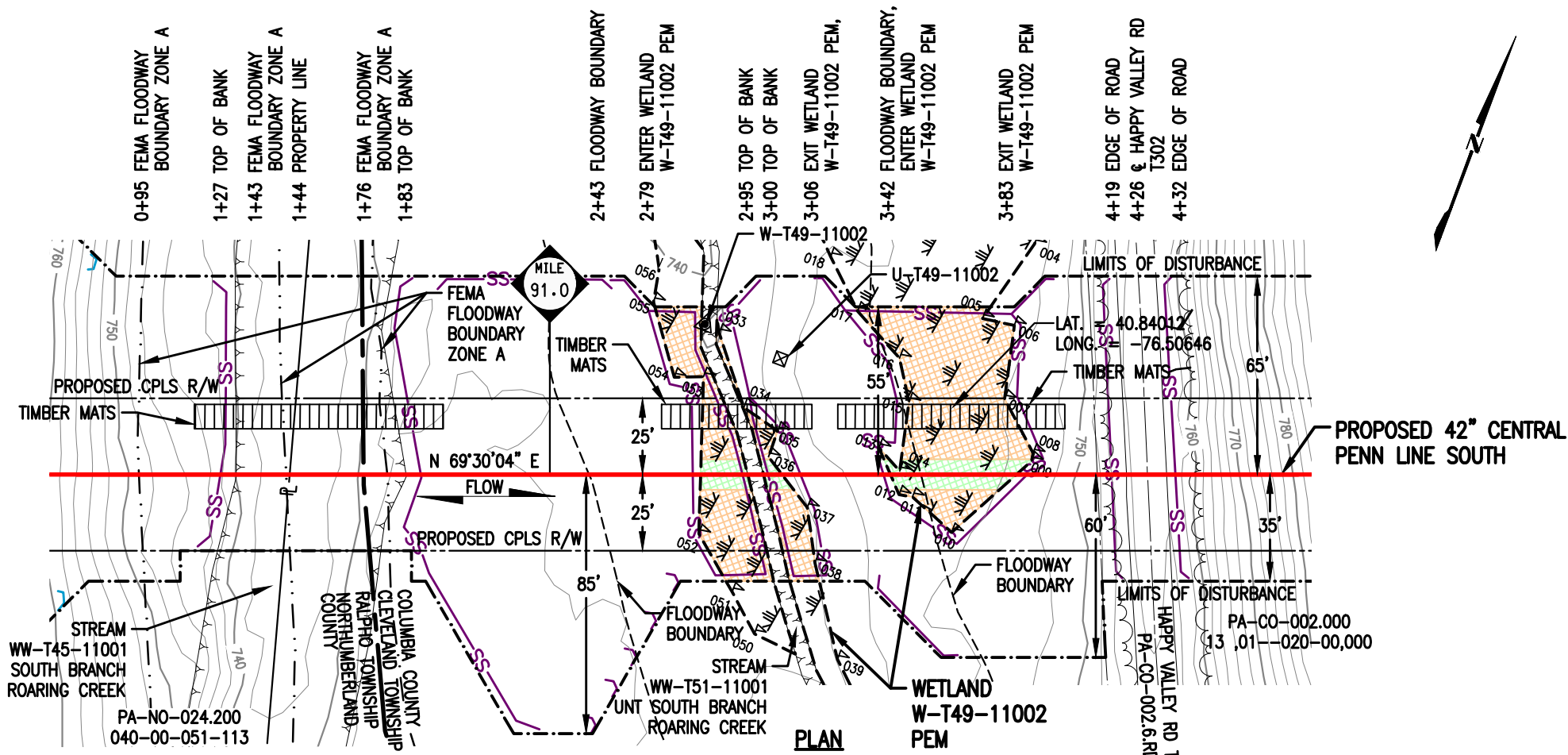


LEGEND

- 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
- 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
- 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		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-T45-11001 @ M.P. 90.99 & WW-T51-11001 @ M.P. 91.01 CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/20/15	THL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	03/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR MJH
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: THL		DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: JM		DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/90.99-01	SHEET 1	
IWO: 1161503		10/24/2016	djkudli	OF 1	



WETLAND DISTURBANCE:

WETLAND W-T49-11002 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0841
PERMANENT DISTURBANCE	0.0143
TOTAL DISTURBANCE	0.0984

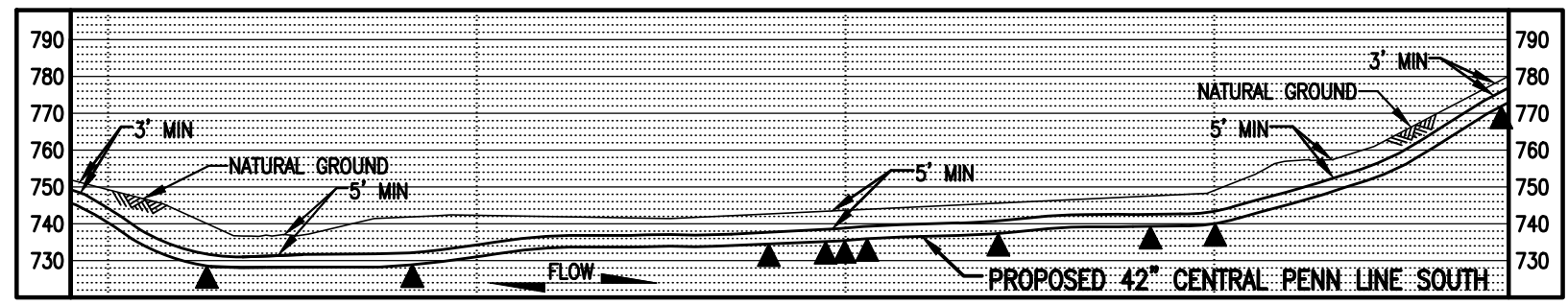
PLAN
SCALE: 1" = 50'

NOTES:

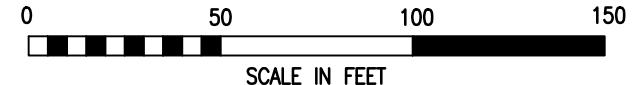
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 4803+50 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 142' RT. OF M.P. 91.04, ELEV. = 755.95' (NAVD88).



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



LEGEND

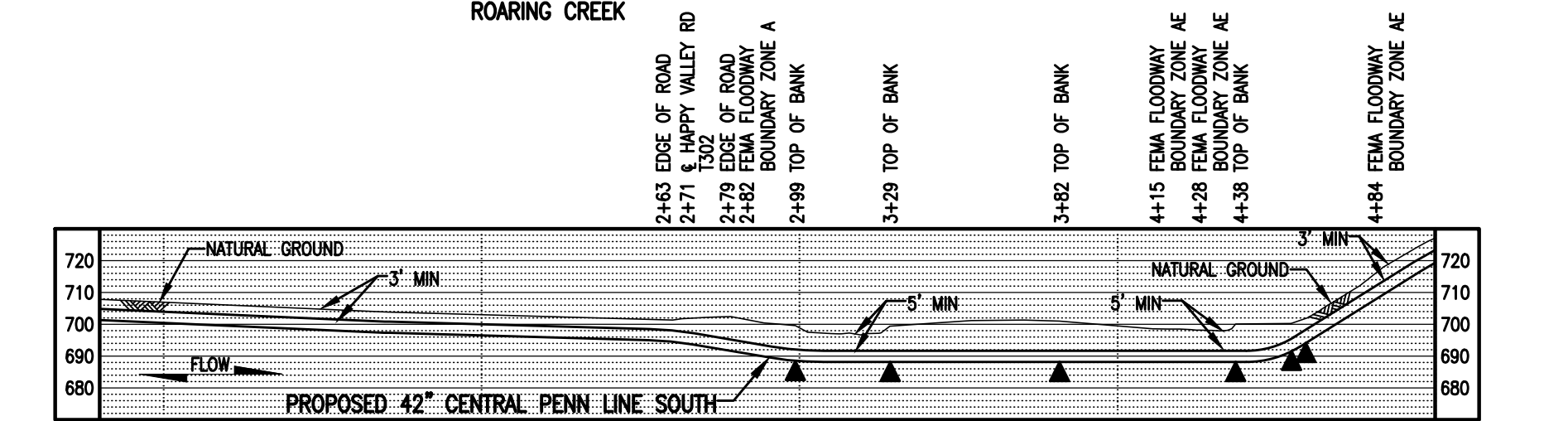
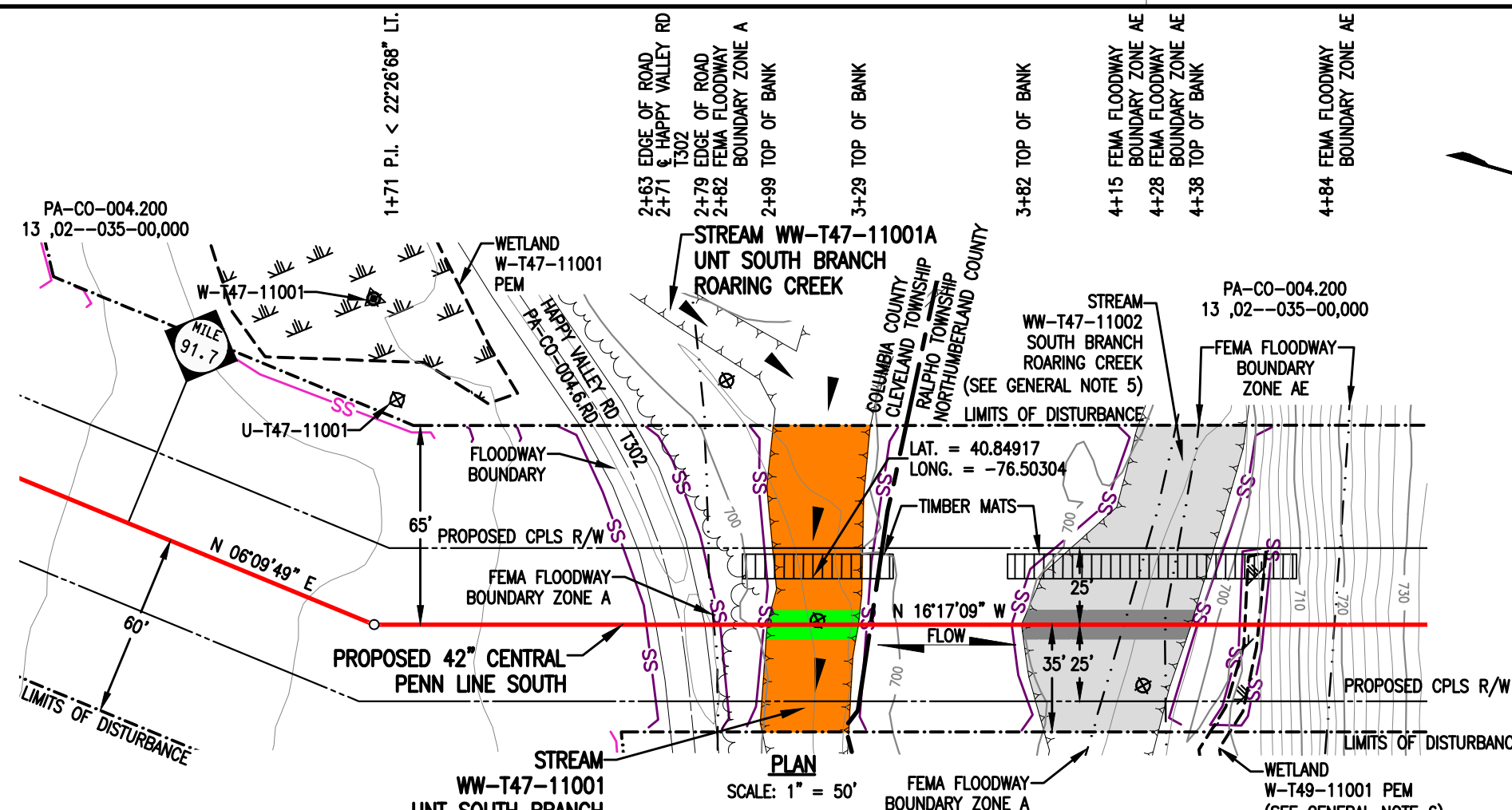
PROPOSED 42" CENTRAL PENN LINE SOUTH	WETLAND FLAGS	12" SEDIMENT BARRIER
EXISTING PIPELINES	PHOTO DATA POINT	18" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	24" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	32" SEDIMENT BARRIER
PROPOSED CPLS R/W	WELL POINT	TOP OF BANK
PROPERTY LINE	TRENCH PLUG	PERMANENT WETLAND IMPACT
FOREIGN PIPELINE	WATERBODY	TEMPORARY WETLAND IMPACT
WETLAND AREA	TREE LINE	
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	10/25/16	JB	ISSUED FOR PAFEP 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
WETLAND CROSSING W-T49-11002
M.P. 91.01
CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: JB	DATE: 07/01/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/01/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/02/16	DRAWING NUMBER: 24-1600-70-20-A/91.01-01	SHEET 1
IWO: 1161503			OF 1



STREAM DISTURBANCE:

STREAM WW-T47-11001 (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0614
PERMANENT STREAM DISTURBANCE	0.0068
TOTAL STREAM DISTURBANCE	0.0682
TEMPORARY FLOODWAY DISTURBANCE	0.2658
PERMANENT FLOODWAY DISTURBANCE	0.0262
TOTAL FLOODWAY DISTURBANCE	0.2920

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	29.75
STREAM LENGTH	100.52

STREAM WW-T47-11001A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0220
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0220

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

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T47-11001 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. STREAM WW-T47-11001A DOES NOT CROSS PROPOSED PIPELINE.
3. THIS SITE IS WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
4. STATION 2+00 SHOWN IS EQUAL TO STATION 4842+92 ON THE EROSION AND SEDIMENT CONTROL PLAN.
5. IMPACT FOR STREAM WW-T47-11002 IS SHOWN ON DRAWING 24-1600-70-09-A/91.74-01 IN NORTHUMBERLAND PACKAGE.
6. IMPACT FOR WETLAND W-T49-11001 IS SHOWN ON DRAWING 24-1600-70-20-A/91.77 IN NORTHUMBERLAND PACKAGE.

SURVEY NOTES:

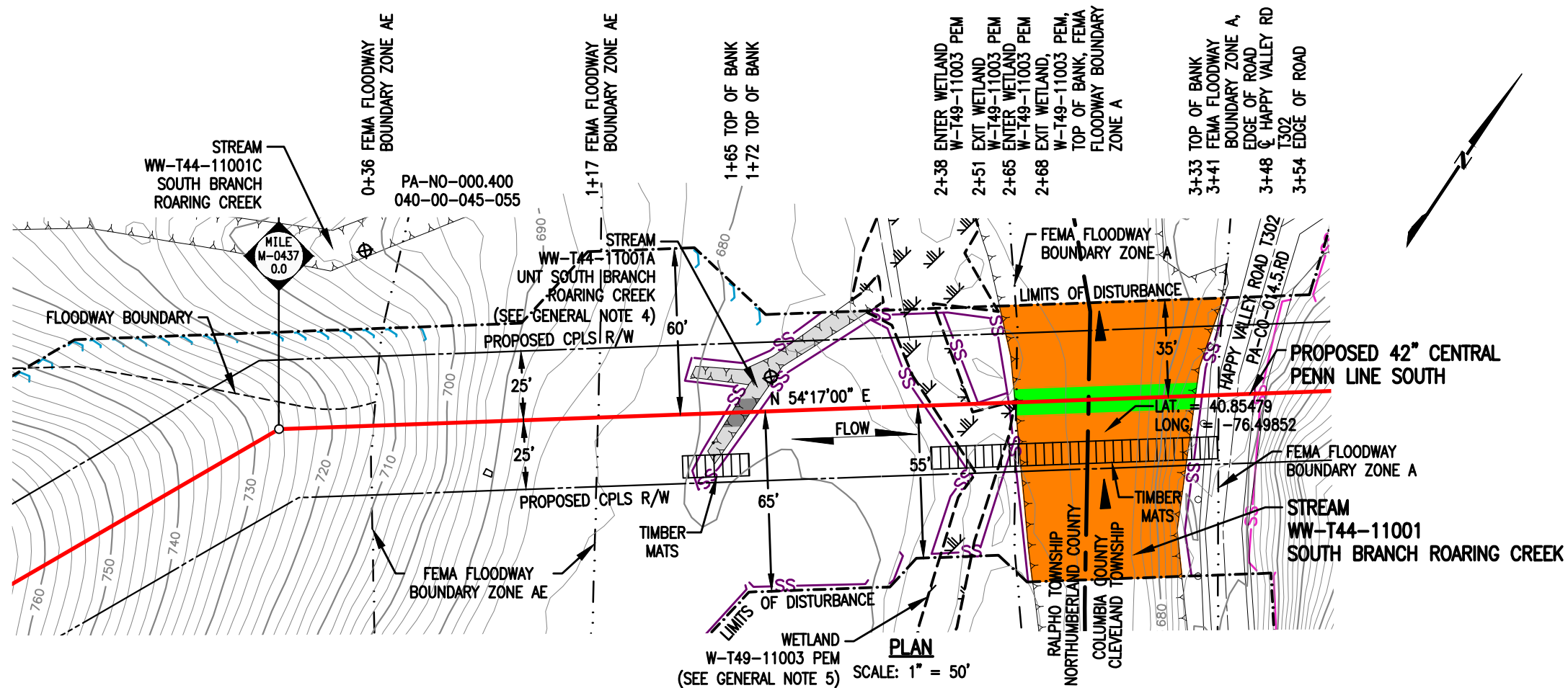
1. T.B.M. SURVEY CONTROL POINT - 21' LT. OF M.P. 91.77, ELEV. = 700.28' (NAVD88).



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				

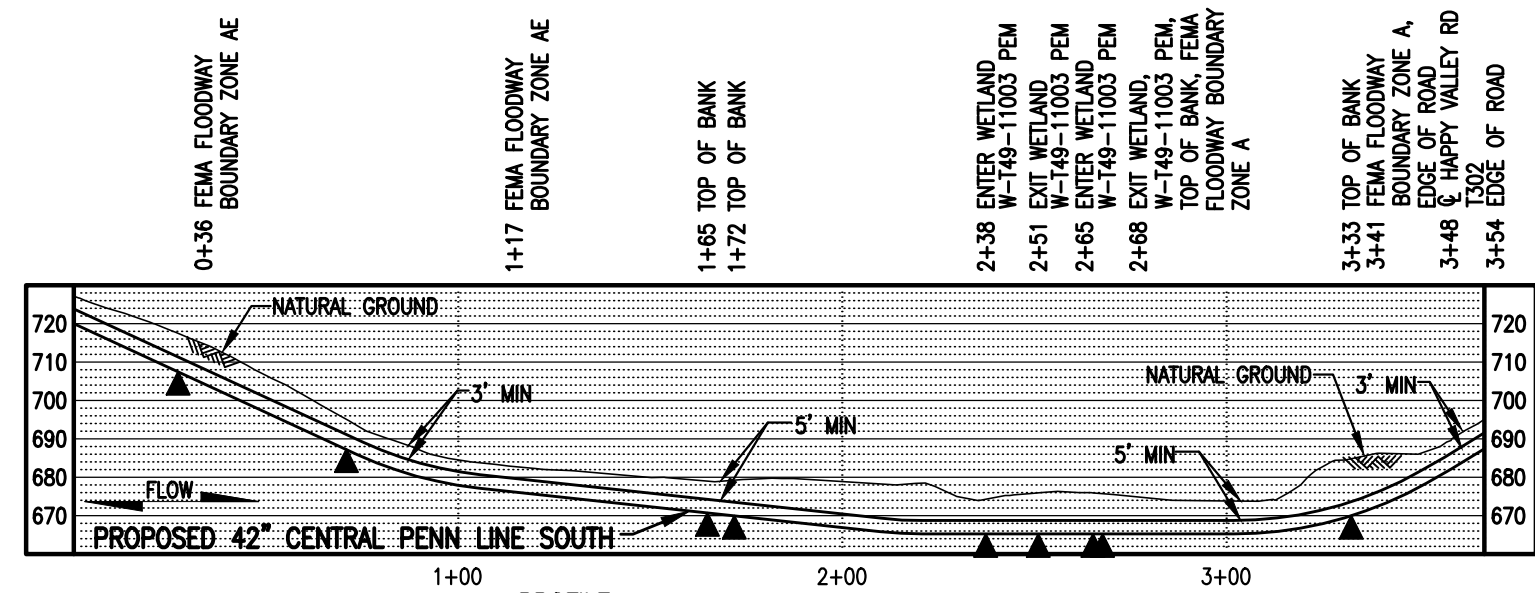
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC						
				WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS						
				ATLANTIC SUNRISE PROJECT						
				PROPOSED 42" CENTRAL PENN LINE SOUTH						
				STREAM CROSSINGS WW-T47-11001A @ M.P. 91.73 &						
				WW-T47-11001 @ M.P. 91.74						
				CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: PJM	DATE: 06/23/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: JM	DATE: 06/23/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 06/23/16	DRAWING NUMBER: 24-1600-70-09-A/91.73-01	SHEET 1
							WC: 1161503		7-49a.m K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_91.73-01.dwg	OF 1



STREAM DISTURBANCE:

STREAM WW-T44-11001 (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.1294
PERMANENT STREAM DISTURBANCE	0.0150
TOTAL STREAM DISTURBANCE	0.1444
TEMPORARY FLOODWAY DISTURBANCE	0.5611
PERMANENT FLOODWAY DISTURBANCE	0.0492
TOTAL FLOODWAY DISTURBANCE	0.6103

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	65.13
STREAM LENGTH	100.10



GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T44-11001 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-T44-11001A IS SHOWN ON DRAWING NUMBER 24-1600-70-09-A/M-0437-0.03-01 IN NORTHUMBERLAND PACKAGE.
5. IMPACT FOR WETLAND W-T49-11003 IS SHOWN ON DRAWING 24-1600-70-20-A/M-0437-0.05-01 IN NORTHUMBERLAND 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
	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

WOOD GROUP MUSTANG, INC.

SS 12" SEDIMENT BARRIER
 SS 18" SEDIMENT BARRIER
 SS 24" SEDIMENT BARRIER
 SS 32" SEDIMENT BARRIER
 Y Y Y Y Y Y Y Y TOP OF BANK

DRAWING NO.		REFERENCE TITLE	
0		ISSUED FOR PADEP SUBMITTAL #2	

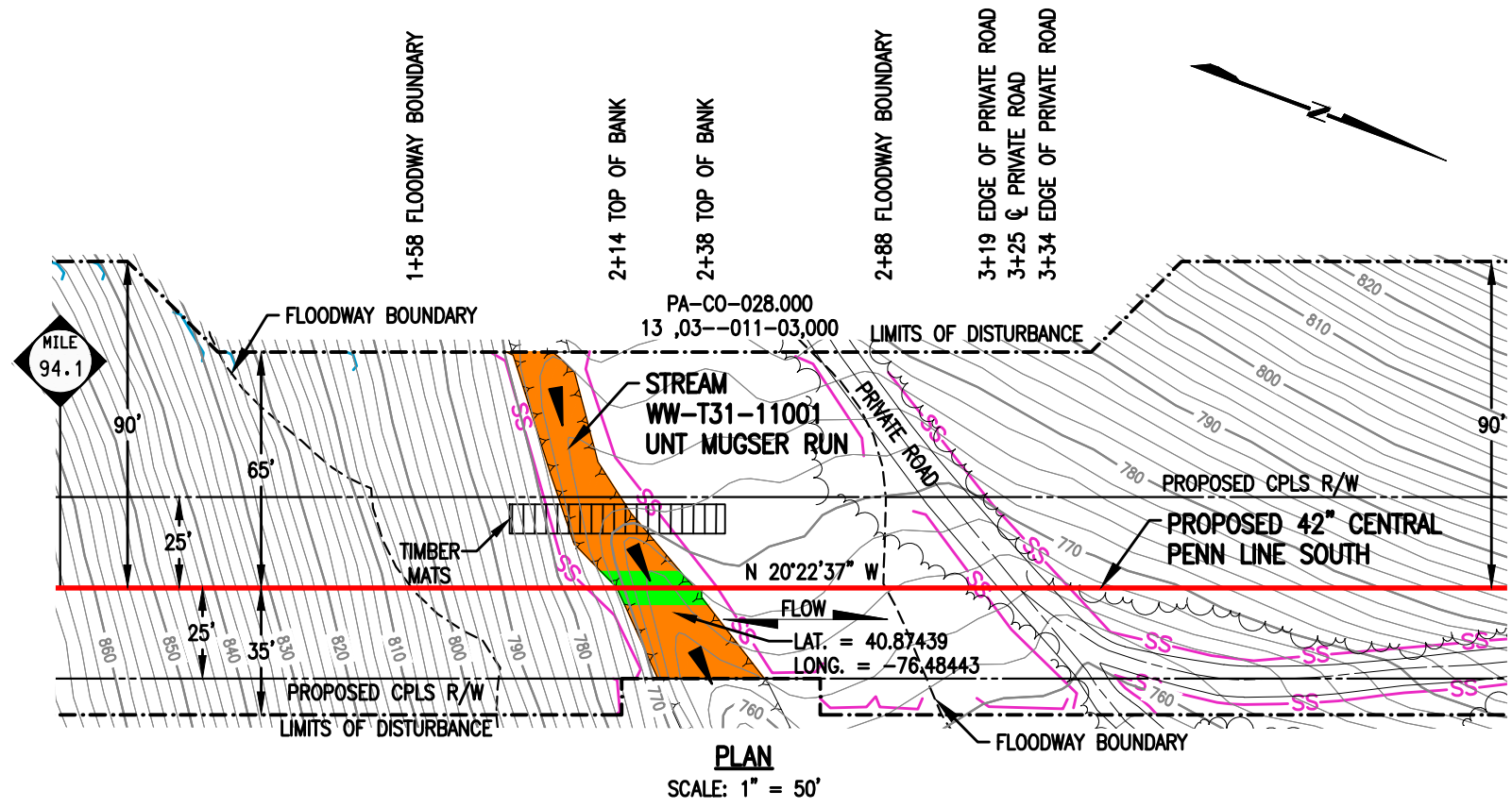
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

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-T44-11001
@ M-0437 M.P. 0.06
CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

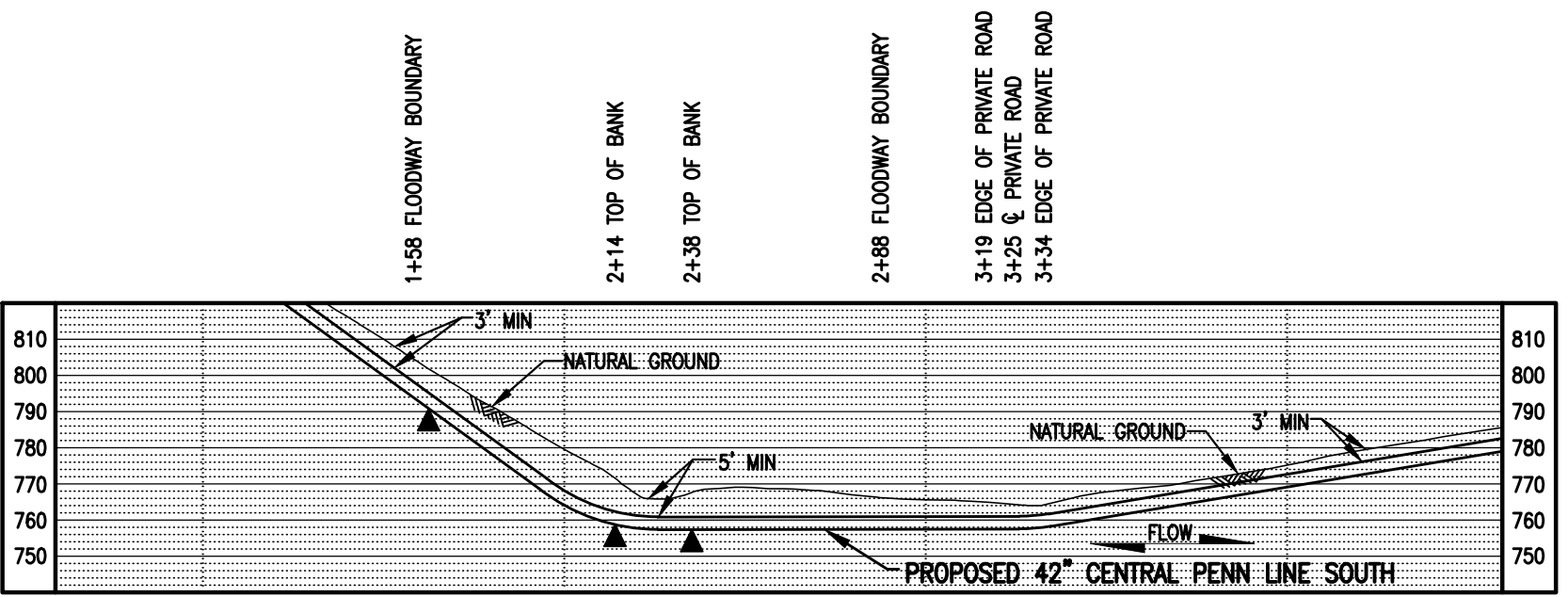
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DRAWN BY: THL	DATE: 01/28/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 01/30/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 02/03/16	DRAWING NUMBER: 24-1600-70-09-A/M-0437-0.06-01	SHEET 1
IWO: 1161503			OF 1

10/3/2016 jibeast
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PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-T31-11001 (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0350
PERMANENT STREAM DISTURBANCE	0.0051
TOTAL STREAM DISTURBANCE	0.0401
TEMPORARY FLOODWAY DISTURBANCE	0.2446
PERMANENT FLOODWAY DISTURBANCE	0.0250
TOTAL FLOODWAY DISTURBANCE	0.2696

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	21.32
STREAM LENGTH	105.08

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 4969+87 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

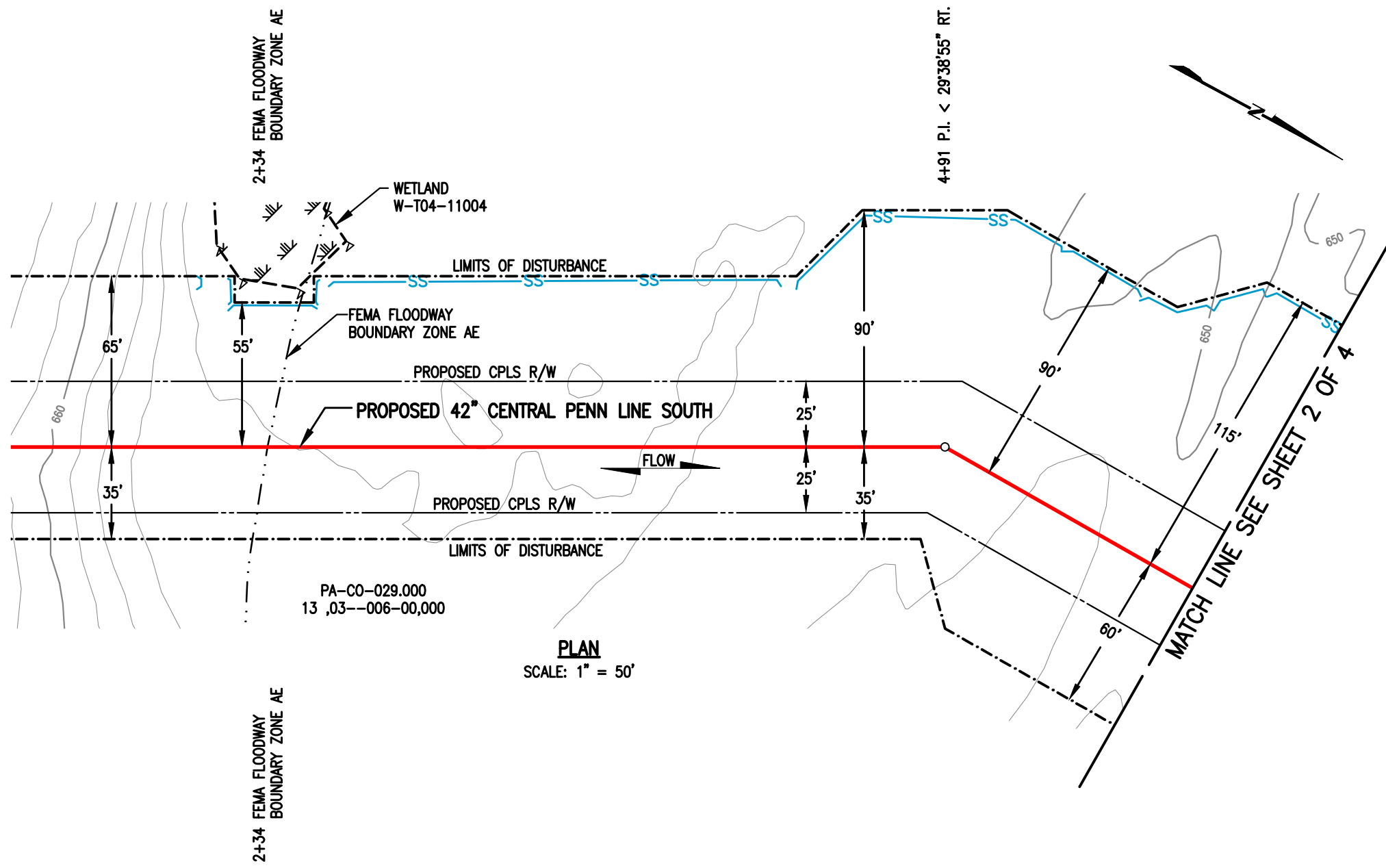
1. T.B.M. I.R. - 74' RT. OF M.P. 94.05, ELEV. = 896.28' (NAVD88).



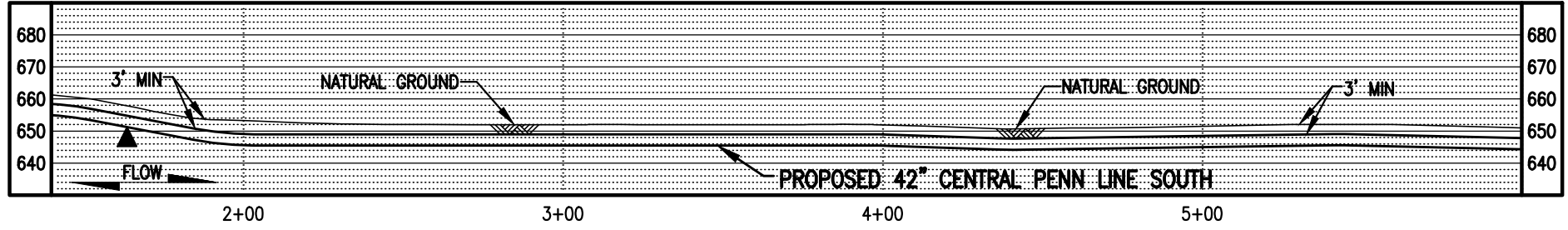
LEGEND

	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		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-T31-11001 © M.P. 94.13 CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 05/22/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/94.13-01	SHEET 1
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	W.O. NUMBER: 1161503		OF 1	



PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-T04-11001 (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0455
PERMANENT STREAM DISTURBANCE	0.0065
TOTAL STREAM DISTURBANCE	0.0520
TEMPORARY FLOODWAY DISTURBANCE	2.2649
PERMANENT FLOODWAY DISTURBANCE	0.1666
TOTAL FLOODWAY DISTURBANCE	2.4315
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	28.07
STREAM LENGTH	95.65

STREAM WW-T04-11001A (HQ)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0070
PERMANENT STREAM DISTURBANCE	0.0030
TOTAL STREAM DISTURBANCE	0.0100
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	13.94
STREAM LENGTH	44.78

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T04-11001 & WW-T04-11001A 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 MAP DATA.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 4979+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 27' RT. OF M.P. 94.42, ELEV. = 650.74' (NAVD88).



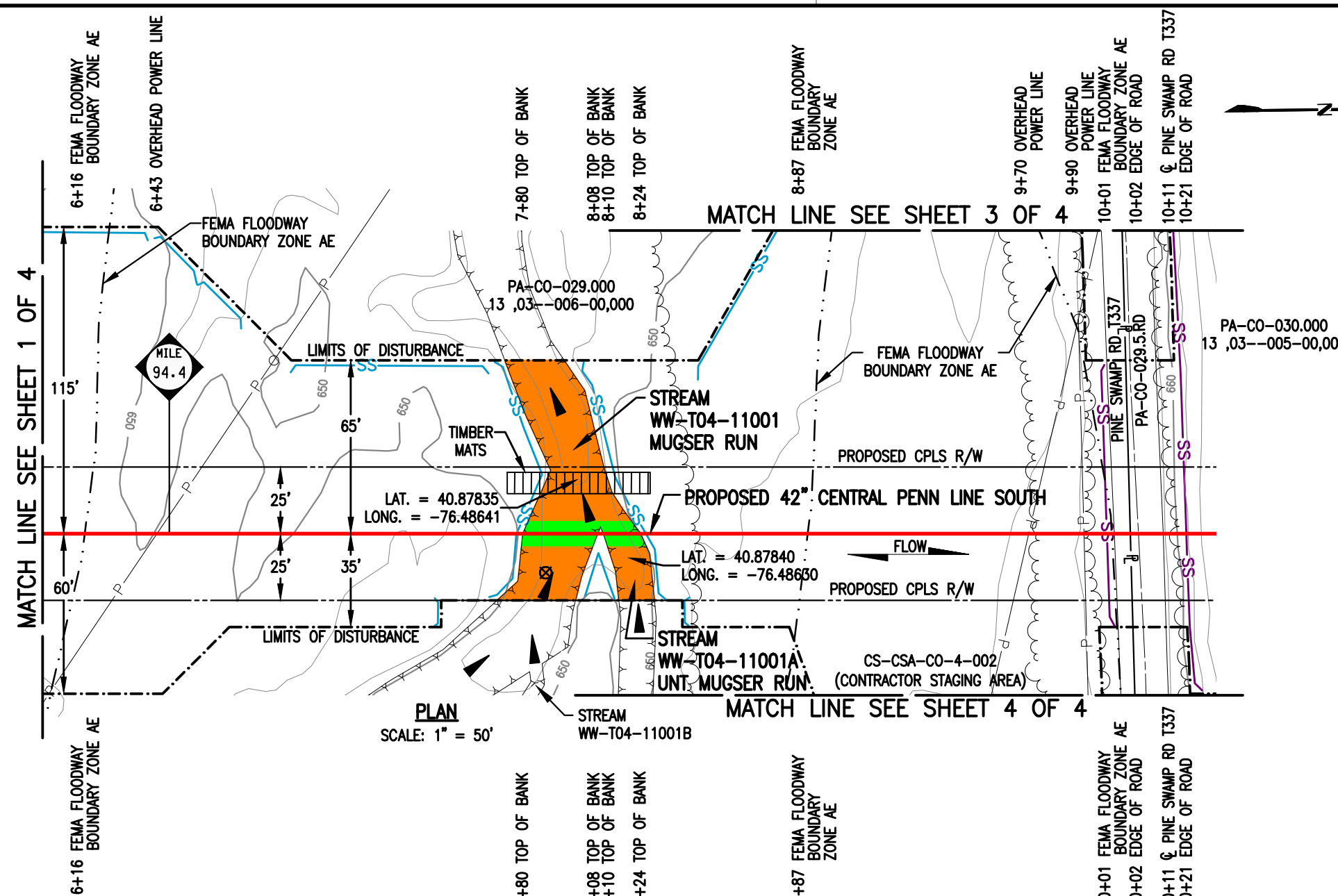
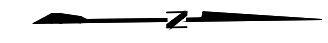
LEGEND

	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				

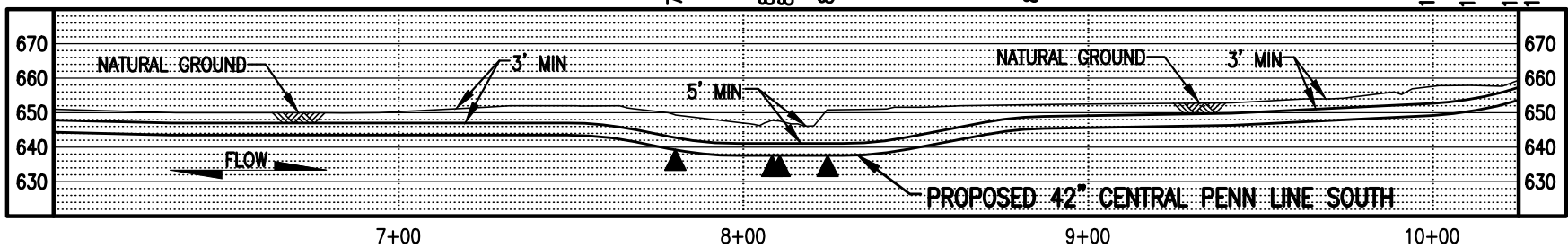
DRAWING NO.		REFERENCE TITLE								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MH	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 05/20/15	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 08/04/15	DRAWING NUMBER: 24-1600-70-09-A/94.43-01	SHEET 1
							IWO: 1161503		948on K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_94.43-01.dwg	OF 4

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-T04-11001, WW-T04-11001A
© M.P. 94.43
CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

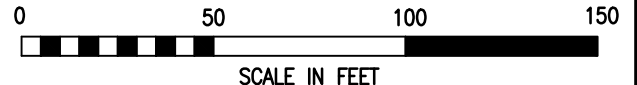
STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 4



PLAN
SCALE: 1" = 50'



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
	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	W.O. NO.	CHK.	APP.
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

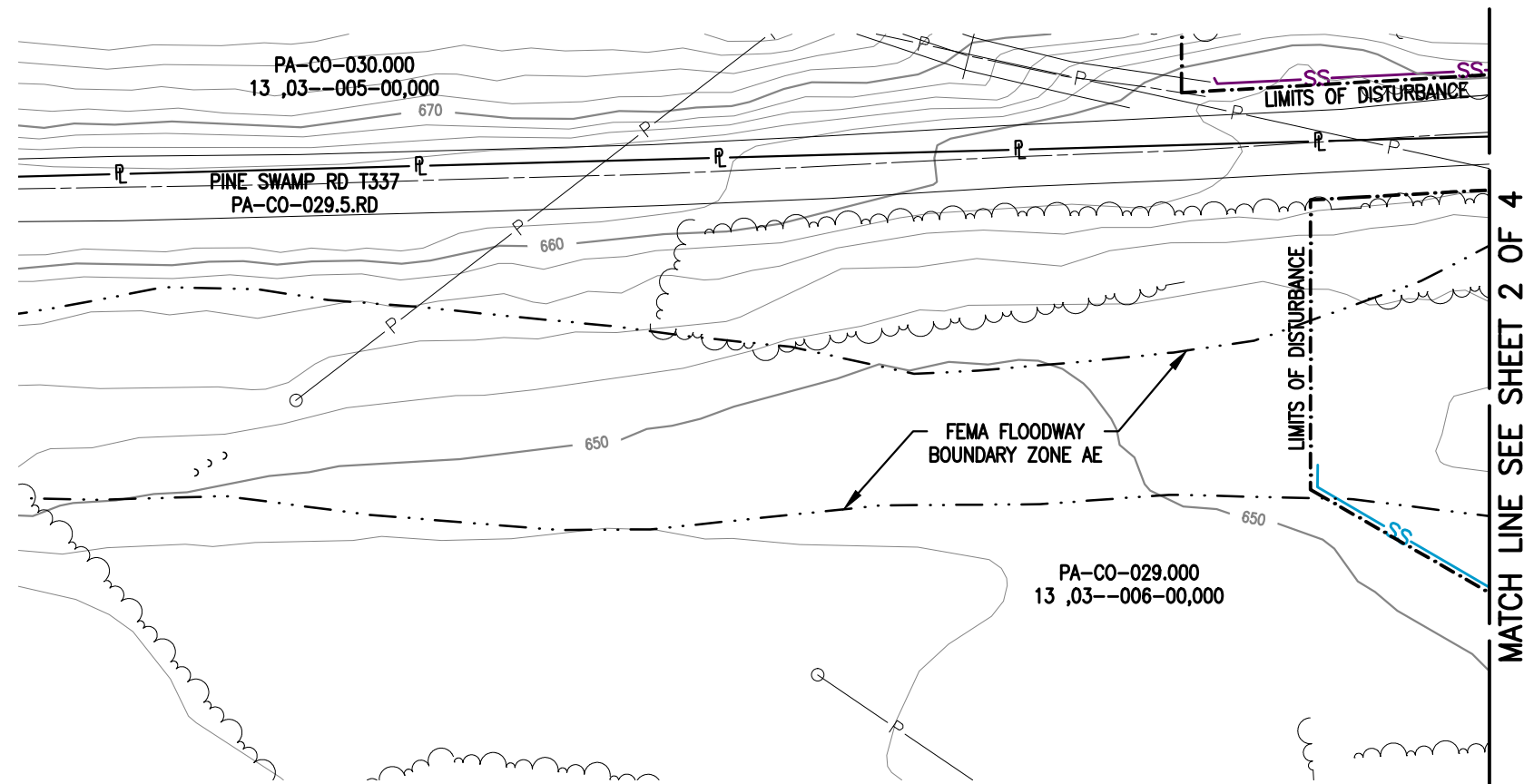
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
STREAM CROSSINGS WW-T04-11001, WW-T04-11001A
● M.P. 94.43
CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA



DRAWN BY: MH	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 05/20/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 08/04/15	DRAWING NUMBER: 24-1600-70-09-A/94.43-01	SHEET 2
IWO: 1161503			OF 4

10/5/2016 jlibeast
K:\03643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_94.43-01.dwg

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 4



MATCH LINE SEE SHEET 2 OF 4



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 | | PERMANENT STREAM IMPACT | | TEMPORARY STREAM IMPACT |

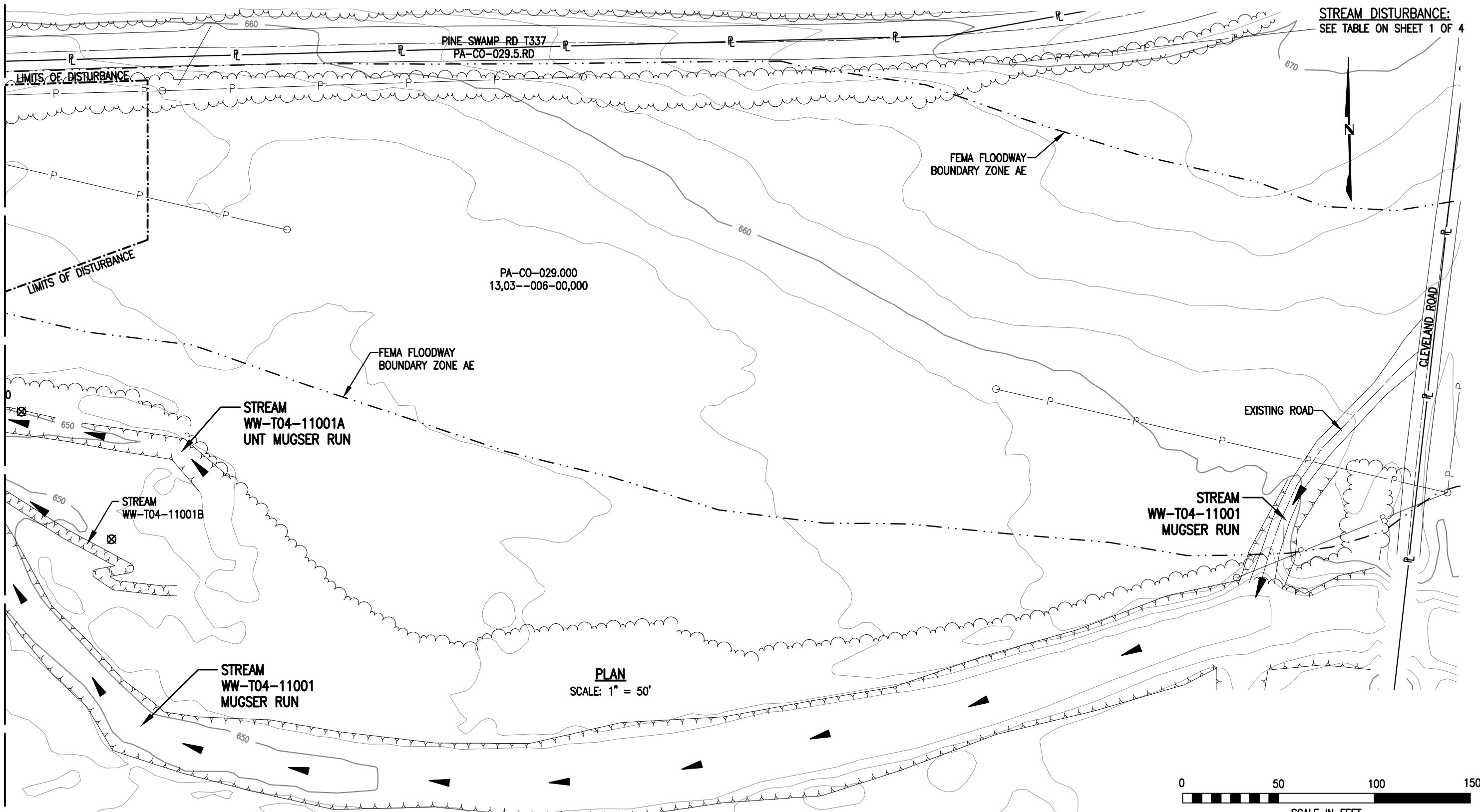
DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
STREAM CROSSINGS WW-T04-11001, WW-T04-11001A
● M.P. 94.43
CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: MH	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 05/20/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 08/04/15	DRAWING NUMBER: 24-1600-70-09-A/94.43-01	SHEET 3
IWO: 1161503		10/5/2016 jlibeasl	OF 4

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 4

MATCH LINE SEE SHEET 2 OF 4



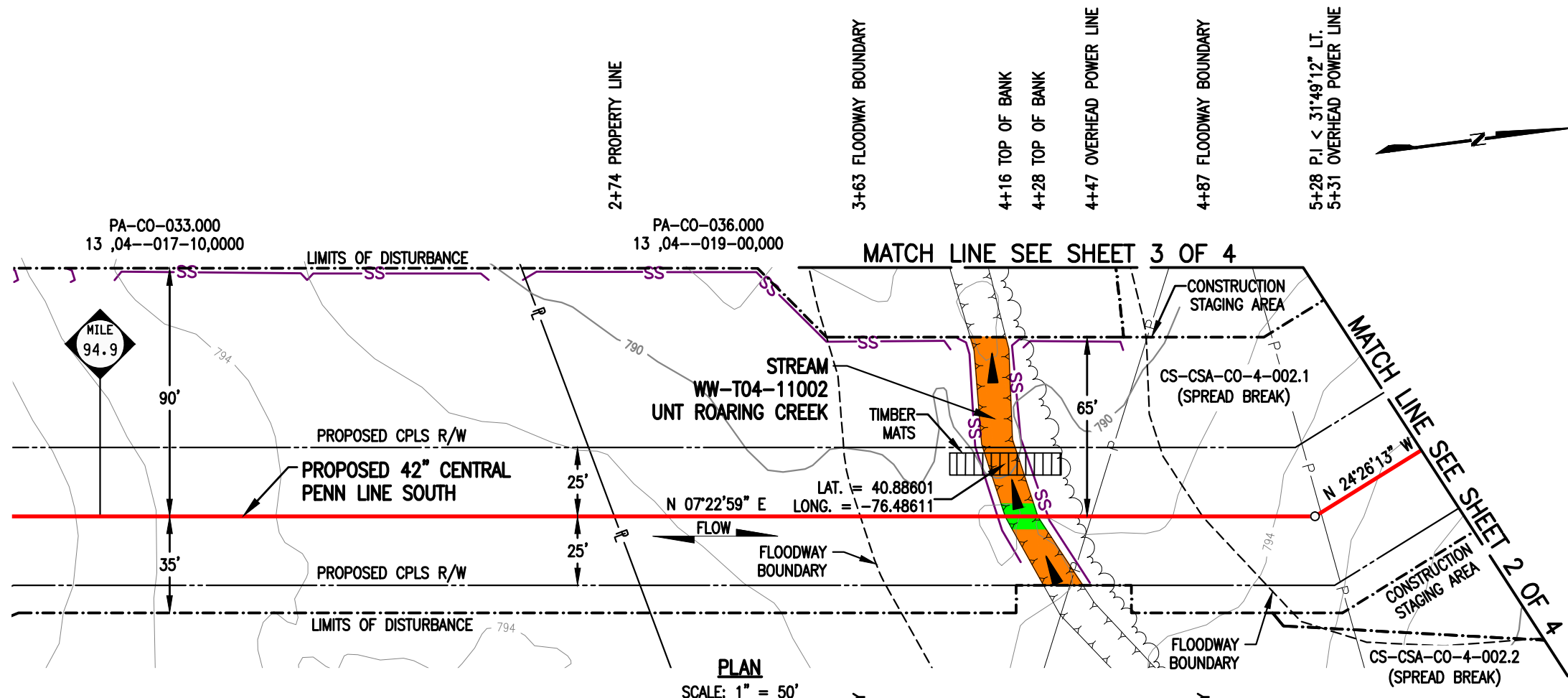
PLAN
SCALE: 1" = 50'

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		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT
1	10/25/16	AT	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 CROSSINGS WW-T04-11001, WW-T04-11001A
© M.P. 94.43
CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: MH	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 05/20/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 08/04/15	DRAWING NUMBER: 24-1600-70-09-A/94.43-01	SHEET 4
WO: 1161503		10/5/2016 jlibeasl	OF 4

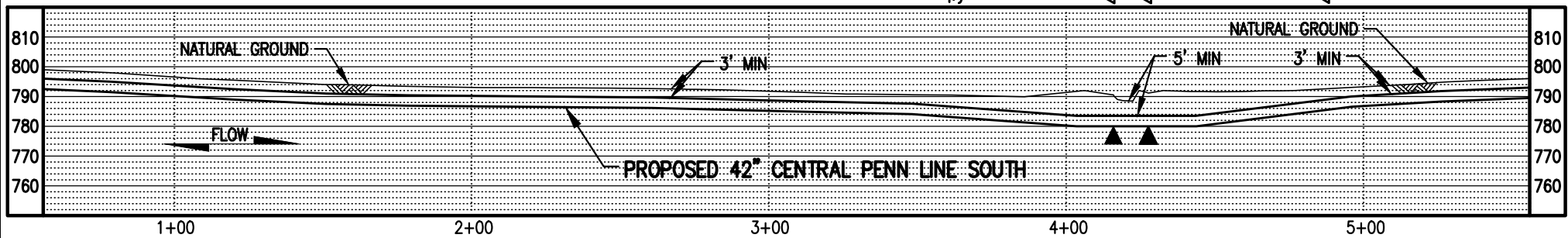


STREAM DISTURBANCE:

STREAM WW-T04-11002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0225
PERMANENT STREAM DISTURBANCE	0.0027
TOTAL STREAM DISTURBANCE	0.0252
TEMPORARY FLOODWAY DISTURBANCE	0.6972
PERMANENT FLOODWAY DISTURBANCE	0.0258
TOTAL FLOODWAY DISTURBANCE	0.7230

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	11.80
STREAM LENGTH	98.10

PLAN
SCALE: 1" = 50'



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

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T04-11002 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 5011+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

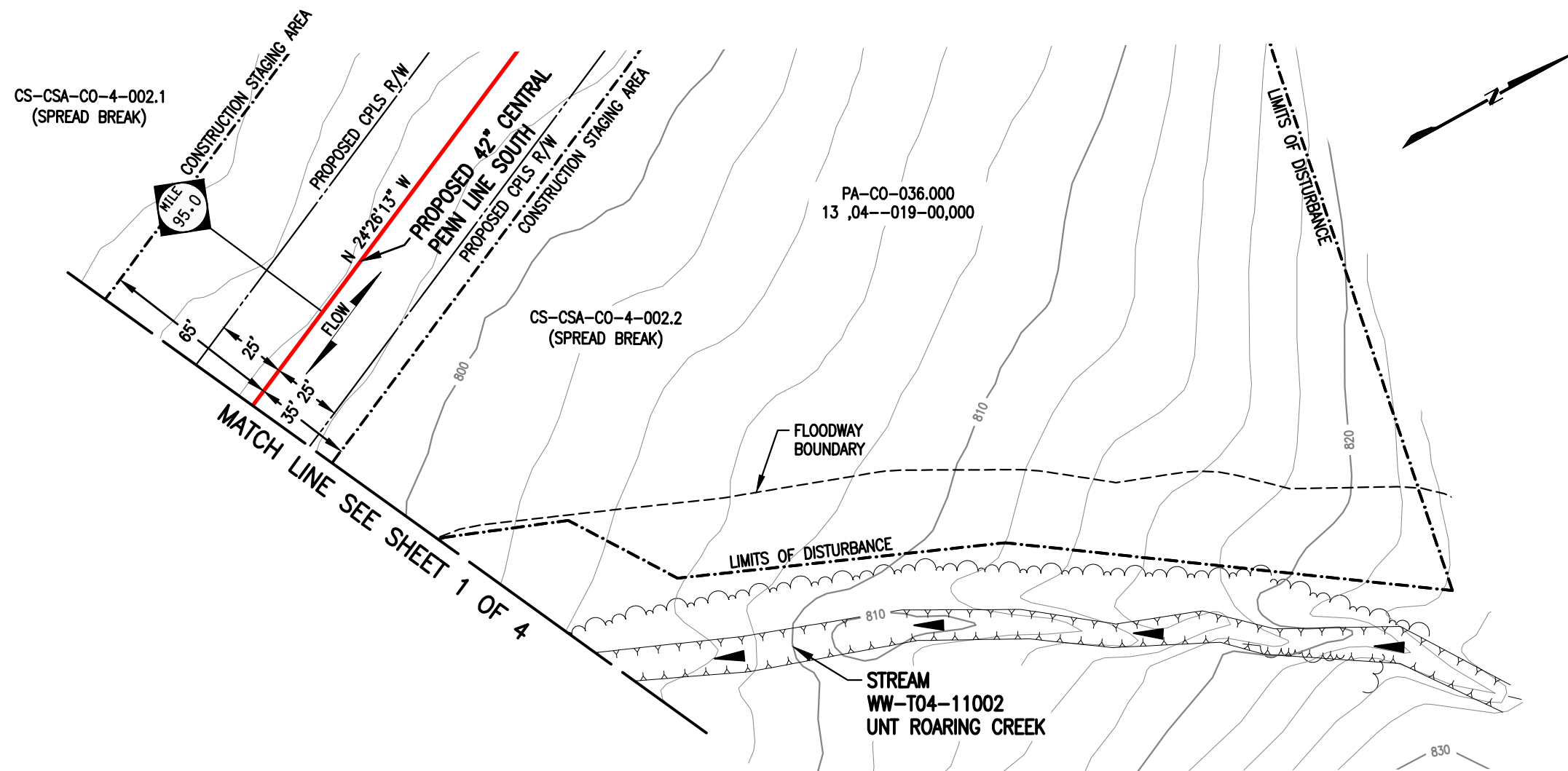
1. T.B.M. I.R. - 65' RT. OF M.P. 94.94, ELEV. = 793.76' (NAVD88).



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-T04-11002 M.P. 94.96 CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.
0	08/19/15	JB	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR MJH
2	10/25/16	DG	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: BB		DATE: 03/02/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 03/04/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 08/04/15	DRAWING NUMBER: 24-1600-70-09-A/94.96-01	SHEET 1	
IWO: 1161503		10/25/2016	7:58am	OF 4	



PLAN
SCALE: 1" = 50'

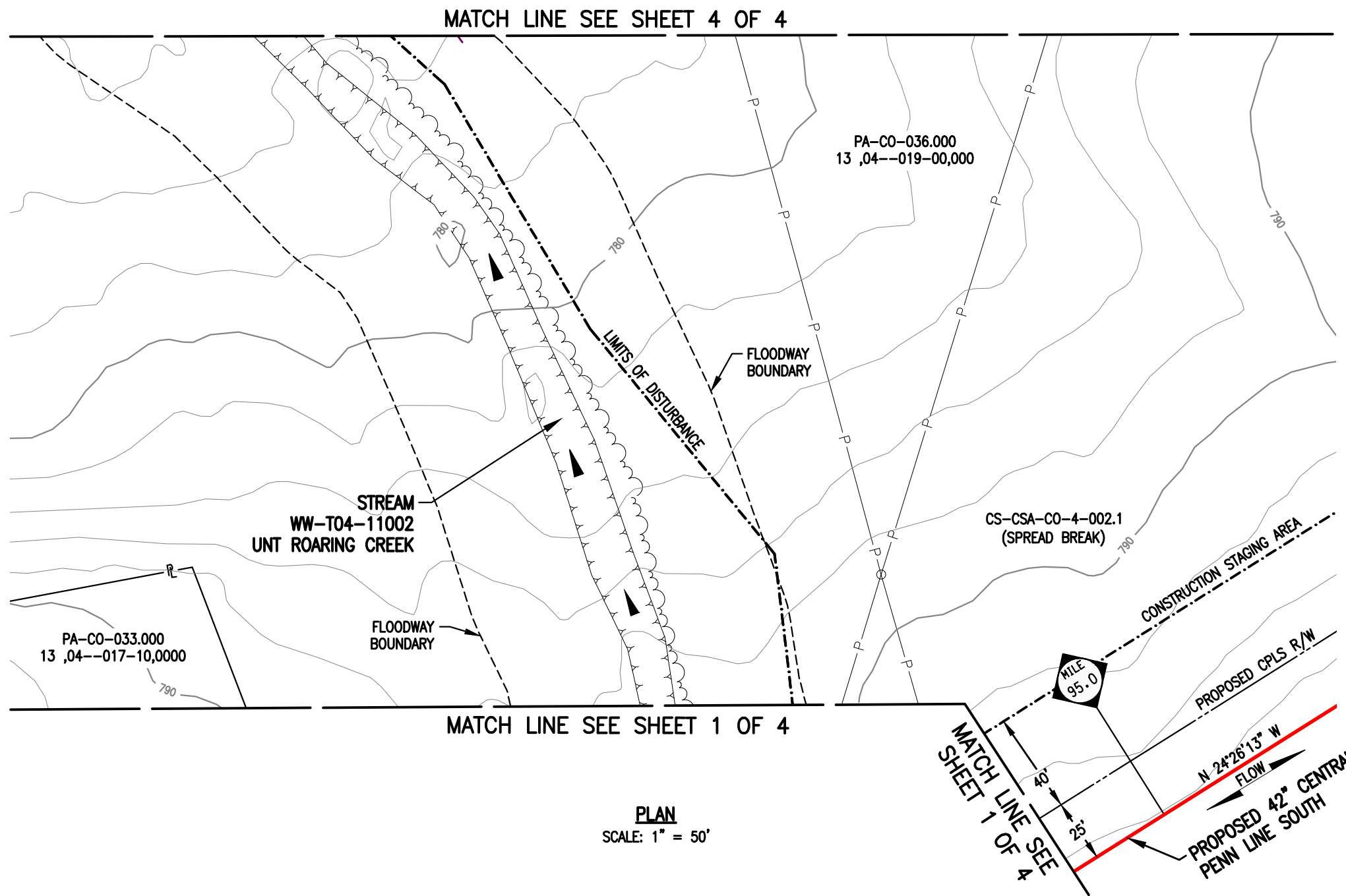


LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND 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

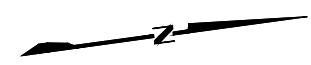
DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	08/19/15	JB	ISSUED FOR PADEP 105 PERMIT
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2

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-T04-11002			
© M.P. 94.96			
CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
DRAWN BY:	BB	DATE:	03/02/15
CHECKED BY:	ML	DATE:	03/04/15
APPROVED BY:	MJH	DATE:	08/04/15
W.O. NO.	1161503	CHK.	CLR
APP.	MJH	CHK.	CLR
ISSUED FOR BID:		ISSUED FOR CONSTRUCTION:	
SCALE:	1" = 50'	REVISION:	1
DRAWING NUMBER:	24-1600-70-09-A/94.96-01	SHEET	2
1:42pm	10/21/2016	OF	4





PLAN
SCALE: 1" = 50'



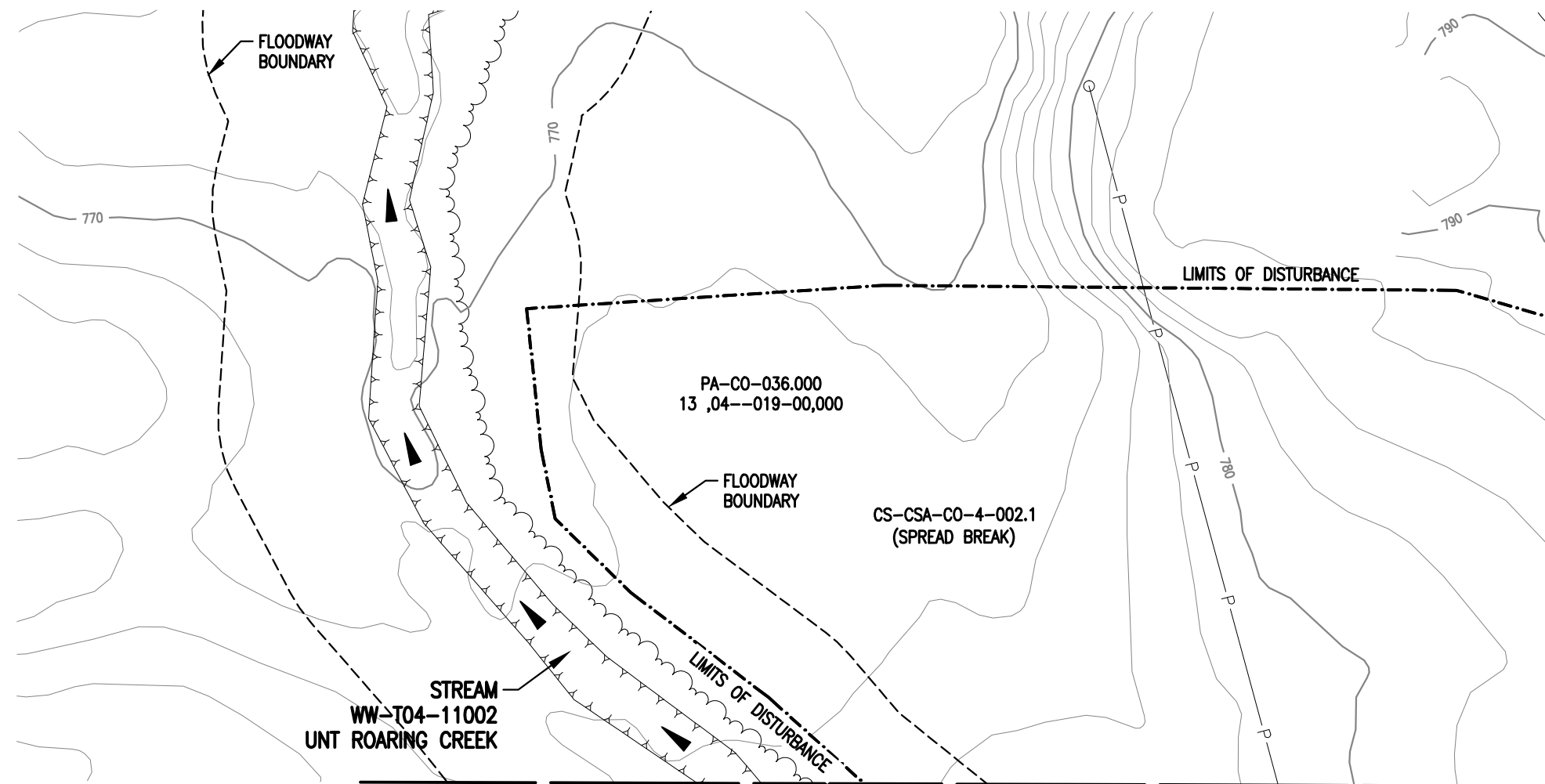
LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND 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
			PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/19/15	JB	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/25/16	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-T04-11002
© M.P. 94.96
CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: BB	DATE: 03/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 03/04/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 08/04/15	DRAWING NUMBER: 24-1600-70-09-A/94.96-01	SHEET 3 OF 4
WO: 1161503		10/21/2016 vqtron	



MATCH LINE SEE SHEET 3 OF 4

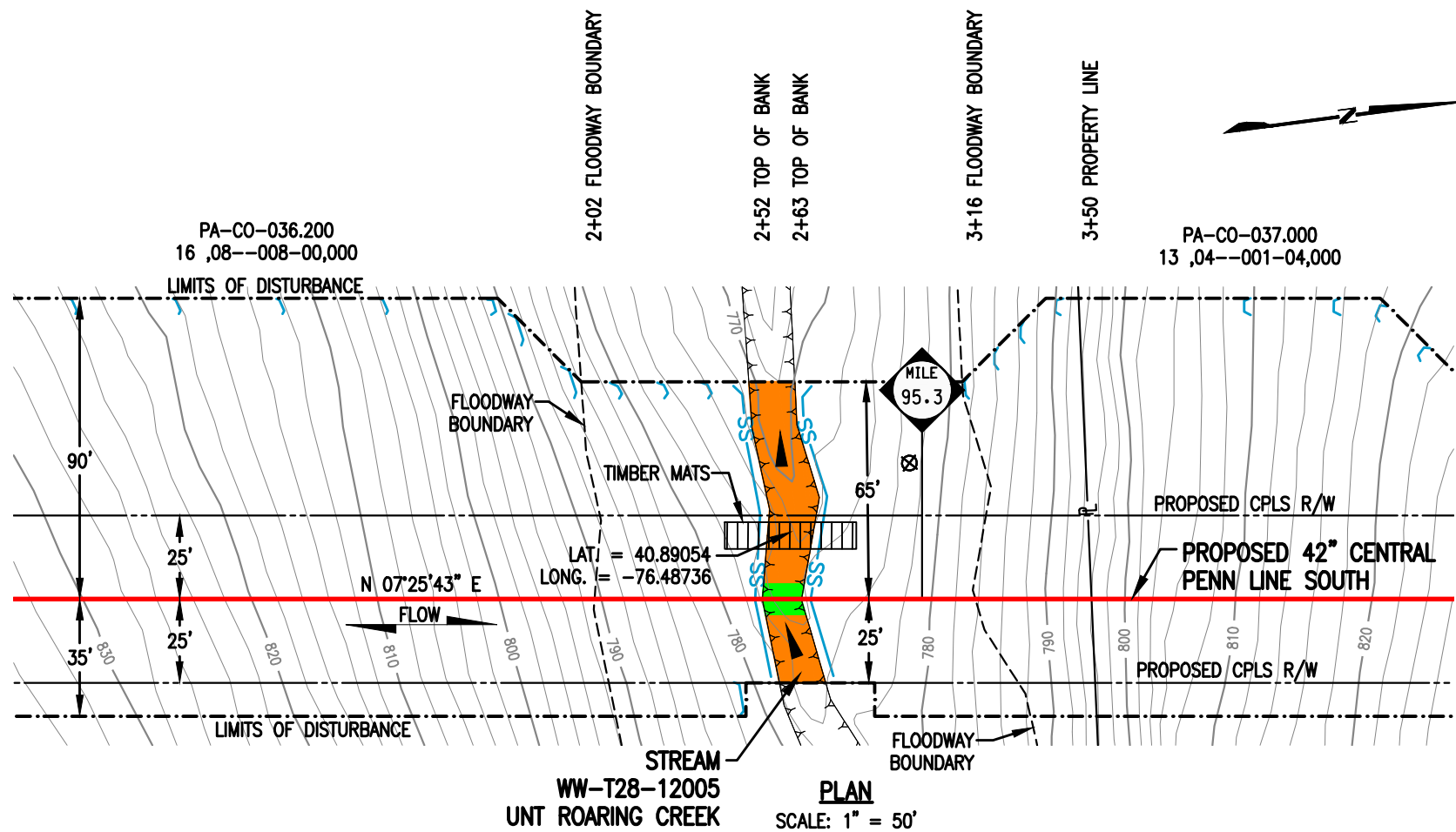
PLAN
SCALE: 1" = 50'



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

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	08/19/15	JB	ISSUED FOR PADEP 105 PERMIT
1	10/25/16	AT	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-T04-11002 © M.P. 94.96 CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
W.O. NO.	CHK.	APP.	DRAWN BY: BB	DATE: 03/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
1161503	CLR	MJH	CHECKED BY: ML	DATE: 03/04/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1161503	CLR	MJH	APPROVED BY: MJH	DATE: 08/04/15	DRAWING NUMBER: 24-1600-70-09-A/94.96-01	SHEET 4
WO: 1161503					10/21/2016 vqtrn	OF 4



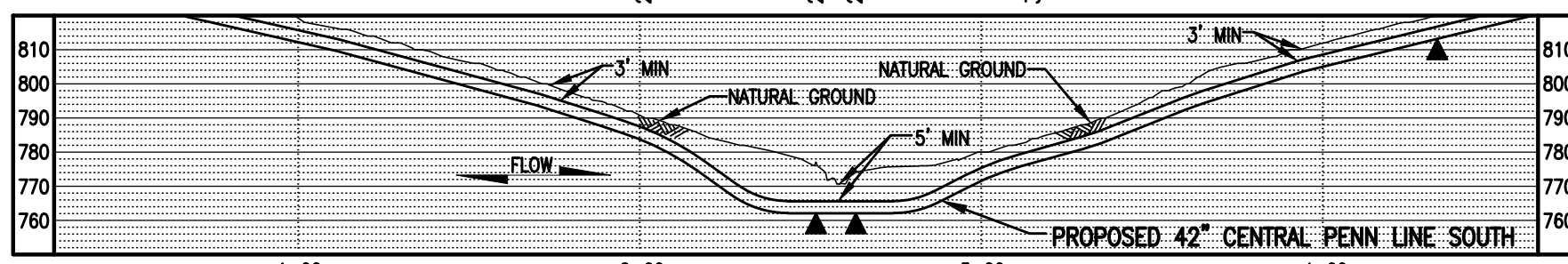
STREAM DISTURBANCE:

STREAM WW-T28-12005	ACRE
TEMPORARY STREAM DISTURBANCE	0.0251
PERMANENT STREAM DISTURBANCE	0.0027
TOTAL STREAM DISTURBANCE	0.0278
TEMPORARY FLOODWAY DISTURBANCE	0.2082
PERMANENT FLOODWAY DISTURBANCE	0.0234
TOTAL FLOODWAY DISTURBANCE	0.2316

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	11.72
STREAM LENGTH	91.47

- 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 5030+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

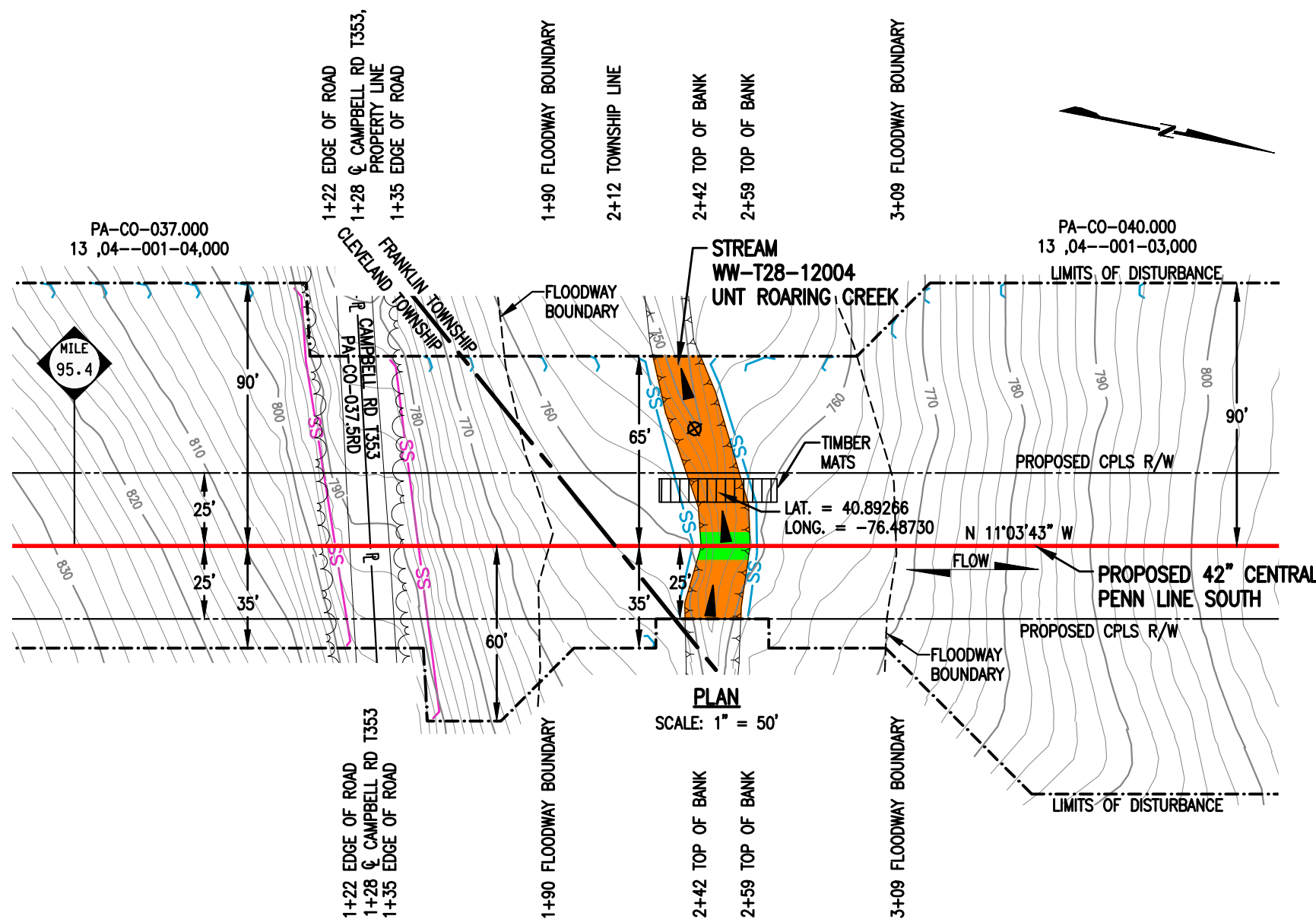
- SURVEY NOTES:**
1. T.B.M. SURVEY CONTROL POINT - 22' RT. OF M.P. 95.29, ELEV. = 779.18' (NAVD88).



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-T28-12005								
		M.P. 95.29								
		CLEVELAND TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: BB	DATE: 01/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/08/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/95.29-01	SHEET 1
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503		952am 10/24/2016 K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_95.29-01.dwg	OF 1



STREAM DISTURBANCE:

STREAM WW-T28-12004	ACRE
TEMPORARY STREAM DISTURBANCE	0.0333
PERMANENT STREAM DISTURBANCE	0.0039
TOTAL STREAM DISTURBANCE	0.0372
TEMPORARY FLOODWAY DISTURBANCE	0.2096
PERMANENT FLOODWAY DISTURBANCE	0.0234
TOTAL FLOODWAY DISTURBANCE	0.2330

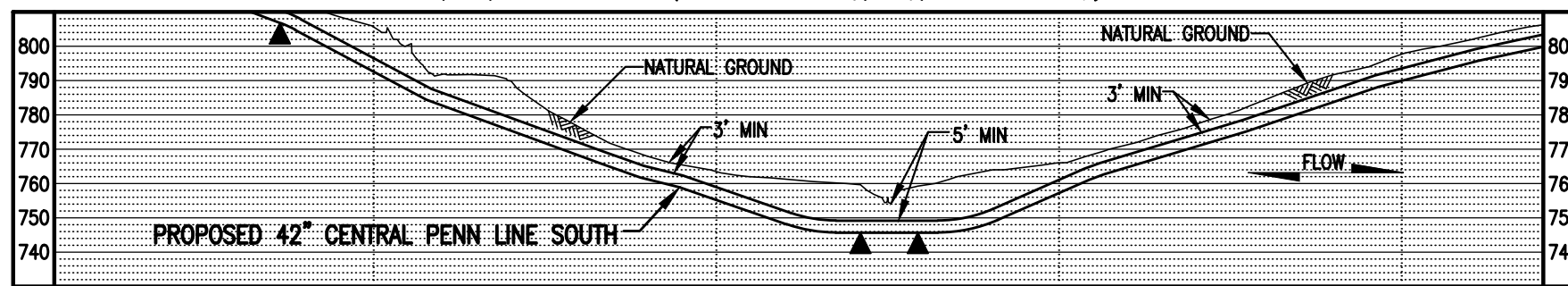
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	16.74
STREAM LENGTH	90.68

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 5037+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

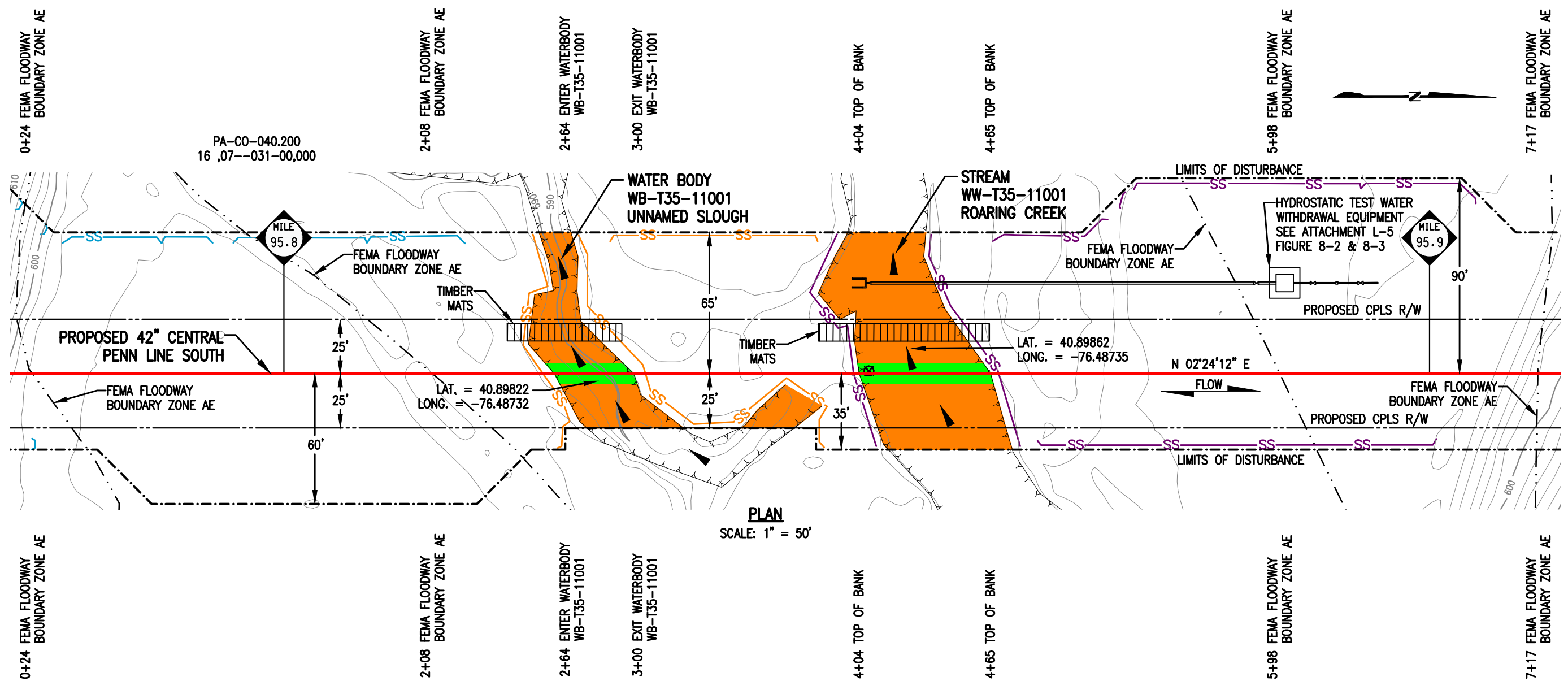
1. T.B.M. SURVEY CONTROL POINT - 52' RT. OF M.P. 95.42, ELEV. = 797.47' (NAVD88).



LEGEND

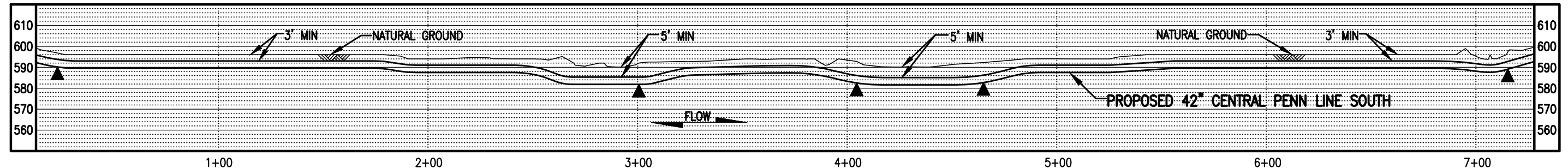
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLS R/W		WELL POINT		32" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		PERMANENT STREAM IMPACT
	FOREIGN PIPELINE		WATERBODY		TEMPORARY STREAM IMPACT
	WETLAND AREA		TREE LINE		FLOODWAY BOUNDARY
	STREAM FLOW		FEMA FLOODWAY BOUNDARY		EXISTING FENCE
	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-T28-12004 M.P. 95.44 CLEVELAND & FRANKLIN TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MH	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	MH	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 05/22/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/95.44-01	SHEET 1
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503			OF 1



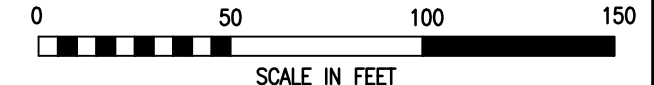
PLAN

SCALE: 1" = 50'



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
	STREAM FLOW		PERMANENT STREAM IMPACT
	EXISTING POWER LINE		TEMPORARY STREAM IMPACT
	EXISTING FENCE		FLOODWAY BOUNDARY
			FEMA FLOODWAY BOUNDARY
			12" SEDIMENT BARRIER
			18" SEDIMENT BARRIER
			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 42" CENTRAL PENN LINE SOUTH						
				STREAM CROSSINGS WB-T35-11001 @ M.P. 95.83						
				WW-T35-11001 @ M.P. 95.85						
				FRANKLIN TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	AKB	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/95.85-01	SHEET 1
								12:15pm 9/30/2016 jibeast		OF 2
						WO: 1161503				

STREAM DISTURBANCE:

POND WB-T35-11001	ACRE
TEMPORARY POND DISTURBANCE	0.0554
PERMANENT POND DISTURBANCE	0.0083
TOTAL POND DISTURBANCE	0.0637
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

POND DIMENSION	FT.
POND WIDTH (TOB TO TOB)	36.56
POND LENGTH	195.14

STREAM WW-T35-11001	ACRE
TEMPORARY STREAM DISTURBANCE	0.1072
PERMANENT STREAM DISTURBANCE	0.0137
TOTAL STREAM DISTURBANCE	0.1209
TEMPORARY FLOODWAY DISTURBANCE	1.4504
PERMANENT FLOODWAY DISTURBANCE	0.1372
TOTAL FLOODWAY DISTURBANCE	1.5876

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	60.50
STREAM LENGTH	107.41

GENERAL NOTES:

- CROSSING METHOD FOR POND WB-T35-11001 SHALL BE DAM AND PUMP (DPX) AND FOR STREAM WW-T35-11001 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
- THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
- STATION 2+00 SHOWN IS EQUAL TO STATION 5058+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 19' RT. OF M.P. 95.83, ELEV. = 593.61' (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		

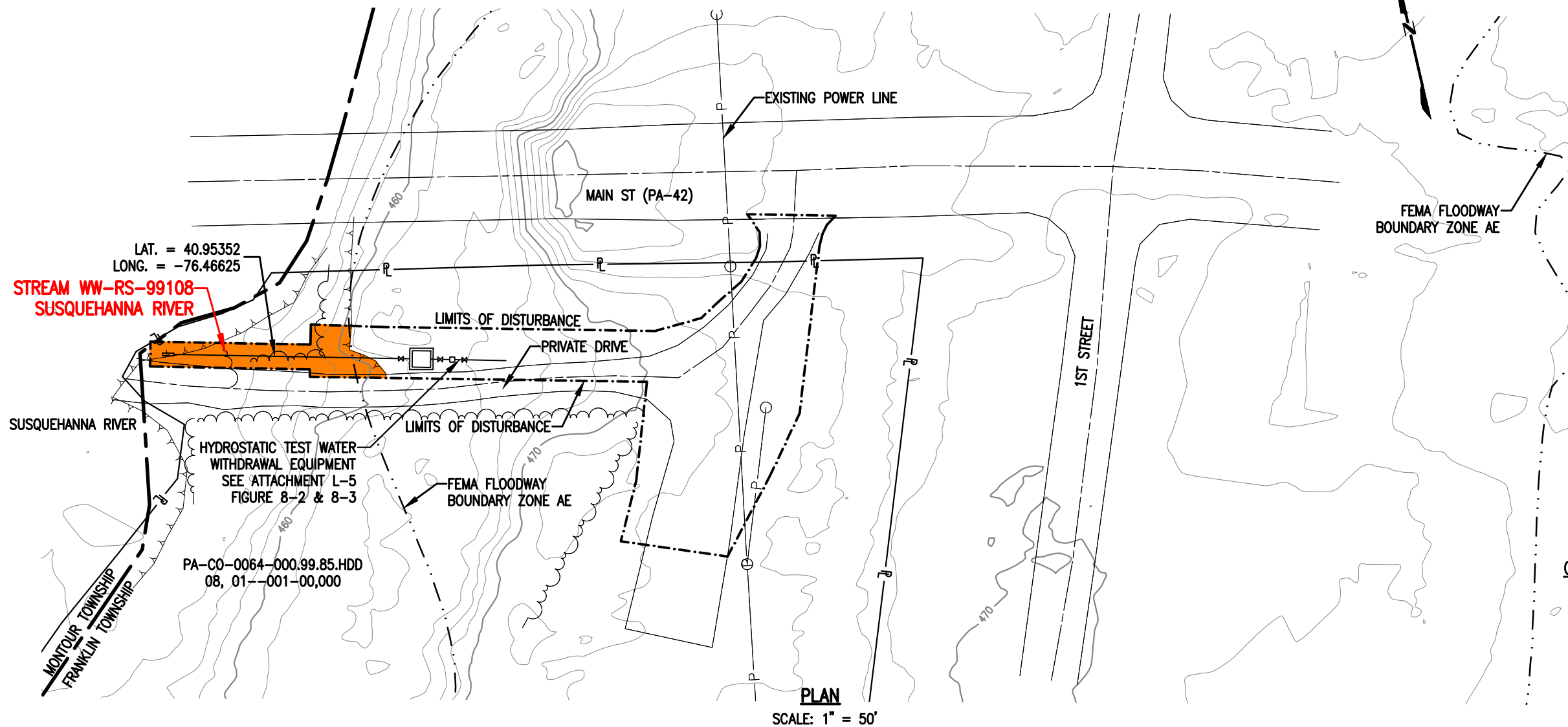
**WOOD GROUP
MUSTANG, INC.**

	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								
		<p align="center">TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSINGS WB-T35-11001 @ M.P. 95.83 WW-T35-11001 @ M.P. 95.85 FRANKLIN TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA</p>								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 05/18/15	ISSUED FOR BID:	SCALE: NONE
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/95.85-01	SHEET 2
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	W.O. NO.: 1161503		12:17pm 9/30/2016 jlibeasl	OF 2

STREAM DISTURBANCE FOR HYDROSTATIC TEST WATER WITHDRAWAL EQUIPMENT:

STREAM WW-RS-99108	ACRE
TEMPORARY STREAM DISTURBANCE	0.0250
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0250
TEMPORARY FLOODWAY DISTURBANCE	0.2046
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.2046
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	21.07
STREAM LENGTH	95.01

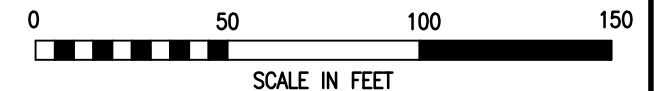


GENERAL NOTES:

1. THIS DRAWING CONTAINS REMOTE SENSING DATA.
2. NO IN STREAM DISTURBANCE WILL OCCUR, AS HYDROSTATIC EQUIPMENT WILL BE PLACED ON STREAM BED.
3. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.

SURVEY NOTES:

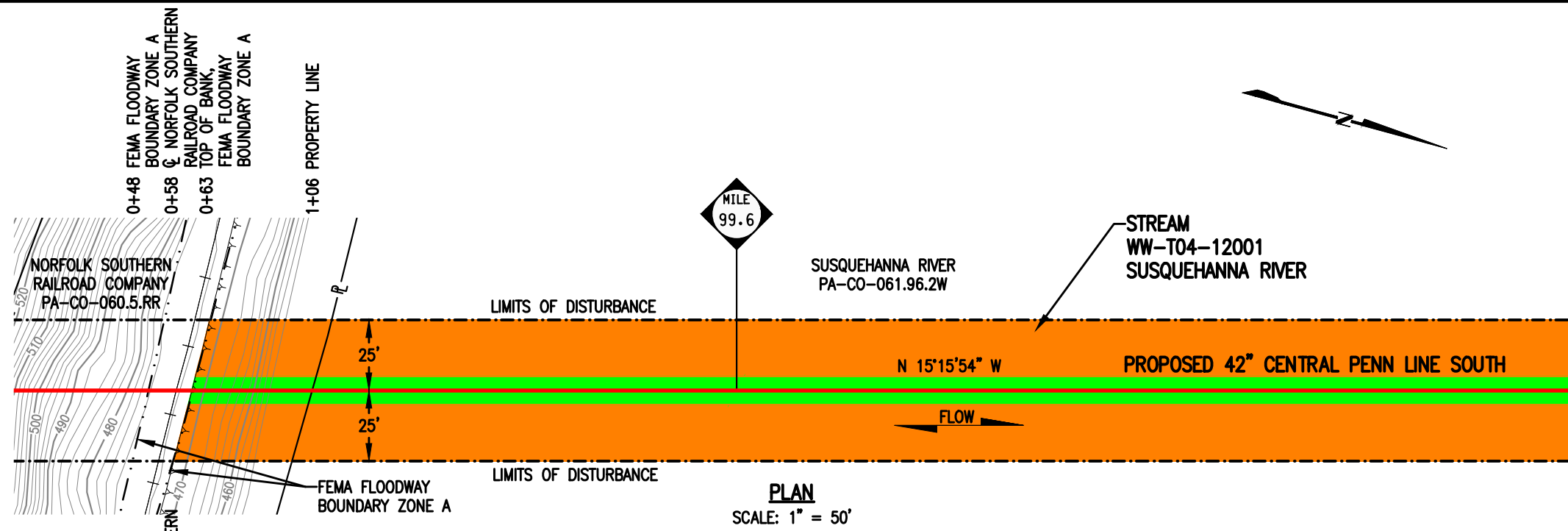
1. T.B.M. SURVEY CONTROL POINT - 26' LT. OF M.P. 99.84, ELEV. = 466.22' (NAVD88).



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-RS-99108 ● M.P. 99.63 FRANKLIN TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 09/23/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 09/23/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 09/23/16	DRAWING NUMBER: 24-1600-70-09-A/99.63-01 SHEET 1	
							WO: 1161503	10/27/2016 t2le		OF 1



MATCH LINE SEE SHEET 2 OF 4

STREAM DISTURBANCE:

STREAM WW-T04-12001	ACRE
TEMPORARY STREAM DISTURBANCE	0.9213
PERMANENT STREAM DISTURBANCE	0.2303
TOTAL STREAM DISTURBANCE	1.1516
TEMPORARY FLOODWAY DISTURBANCE	0.7714
PERMANENT FLOODWAY DISTURBANCE	0.1920
TOTAL FLOODWAY DISTURBANCE	0.9634

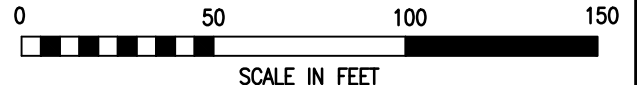
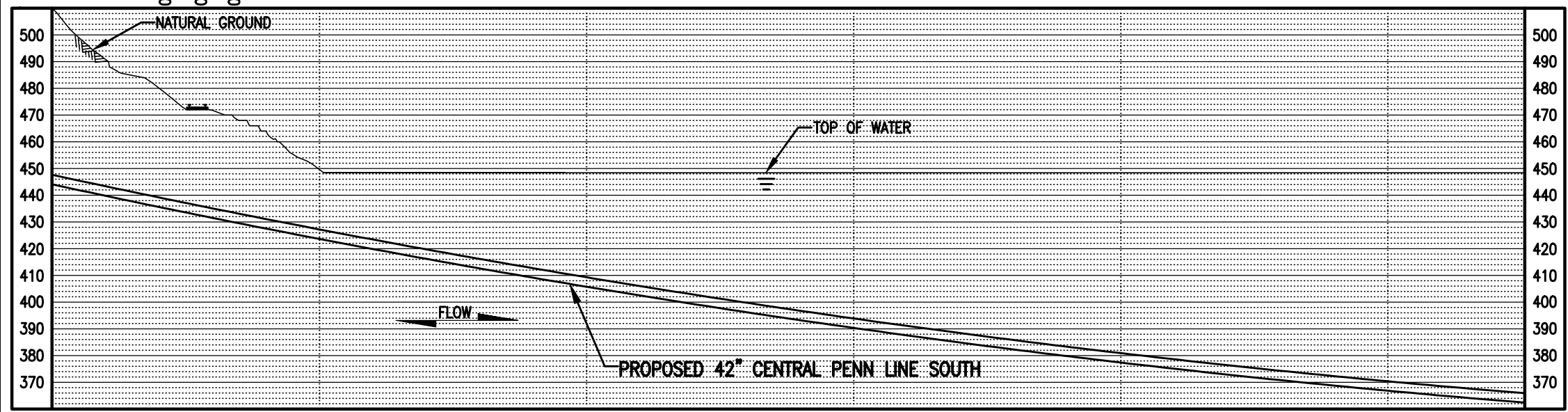
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	1003.29
STREAM LENGTH	54.73

GENERAL NOTES:

1. STREAM WW-T04-12001 CROSSING METHOD SHALL BE HDD. NO PHYSICAL SURFACE IMPACTS ARE PROPOSED TO THIS FEATURE DUE TO HDD CROSSING METHOD.
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 5257+32 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 57' RT. OF M.P. 99.56, ELEV. = 467.94' (NAVD88).

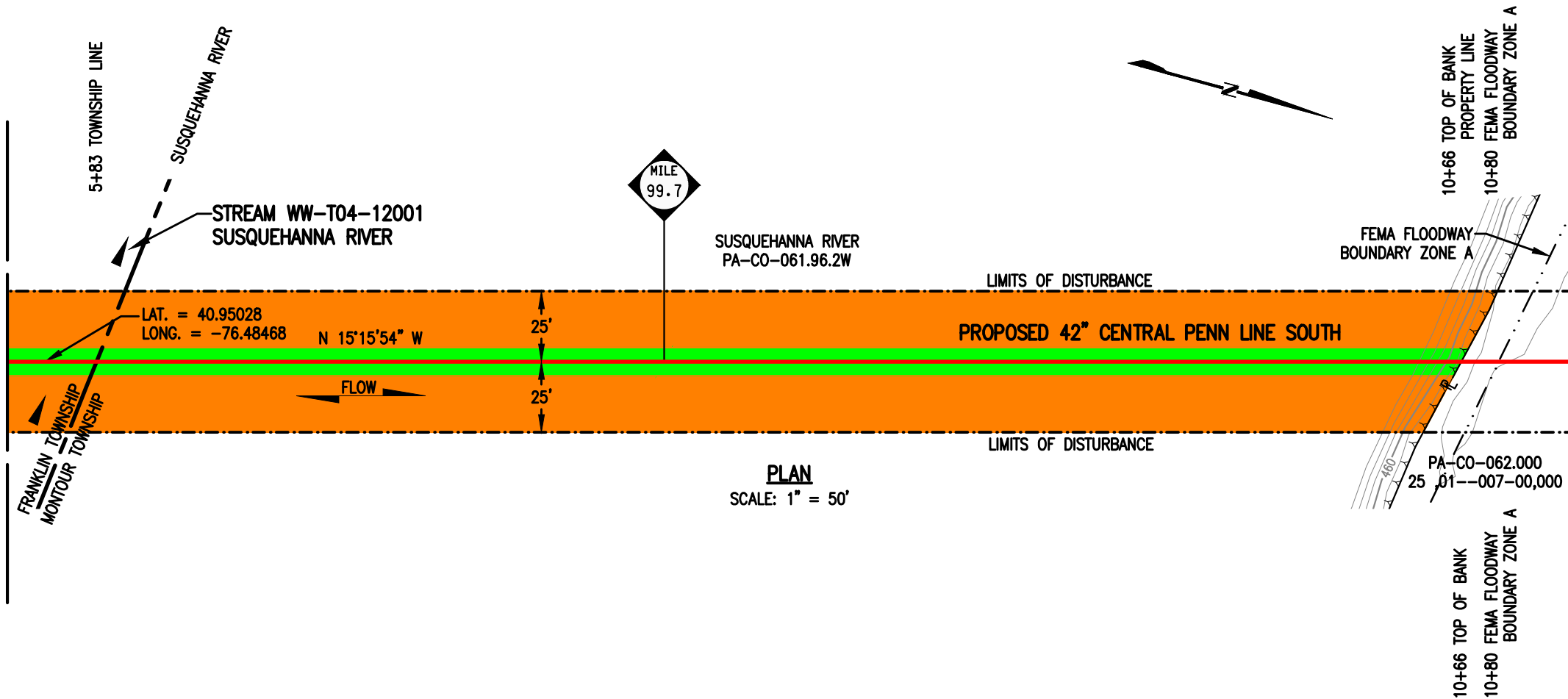


LEGEND

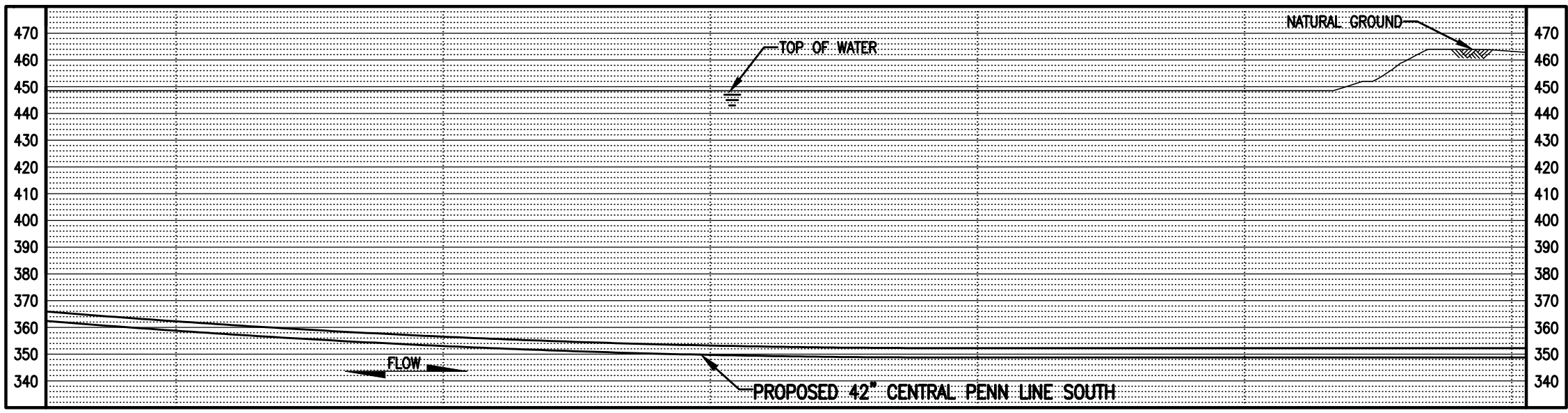
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLS R/W		WELL POINT		32" SEDIMENT 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-T04-12001 M.P. 99.66 FRANKLIN TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: LL		DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/99.66-01	SHEET 1 OF 4	
IWO: 1161503		<small>10/3/2016 jlibeast</small> <small>K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_99.66-01.dwg</small>			

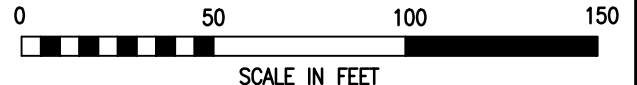
MATCH LINE SEE SHEET 1 OF 4



PLAN
SCALE: 1" = 50'



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
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT
			12" SEDIMENT BARRIER
			18" SEDIMENT BARRIER
			24" SEDIMENT BARRIER
			32" SEDIMENT BARRIER
			TOP OF BANK

DRAWING NO.	REFERENCE TITLE

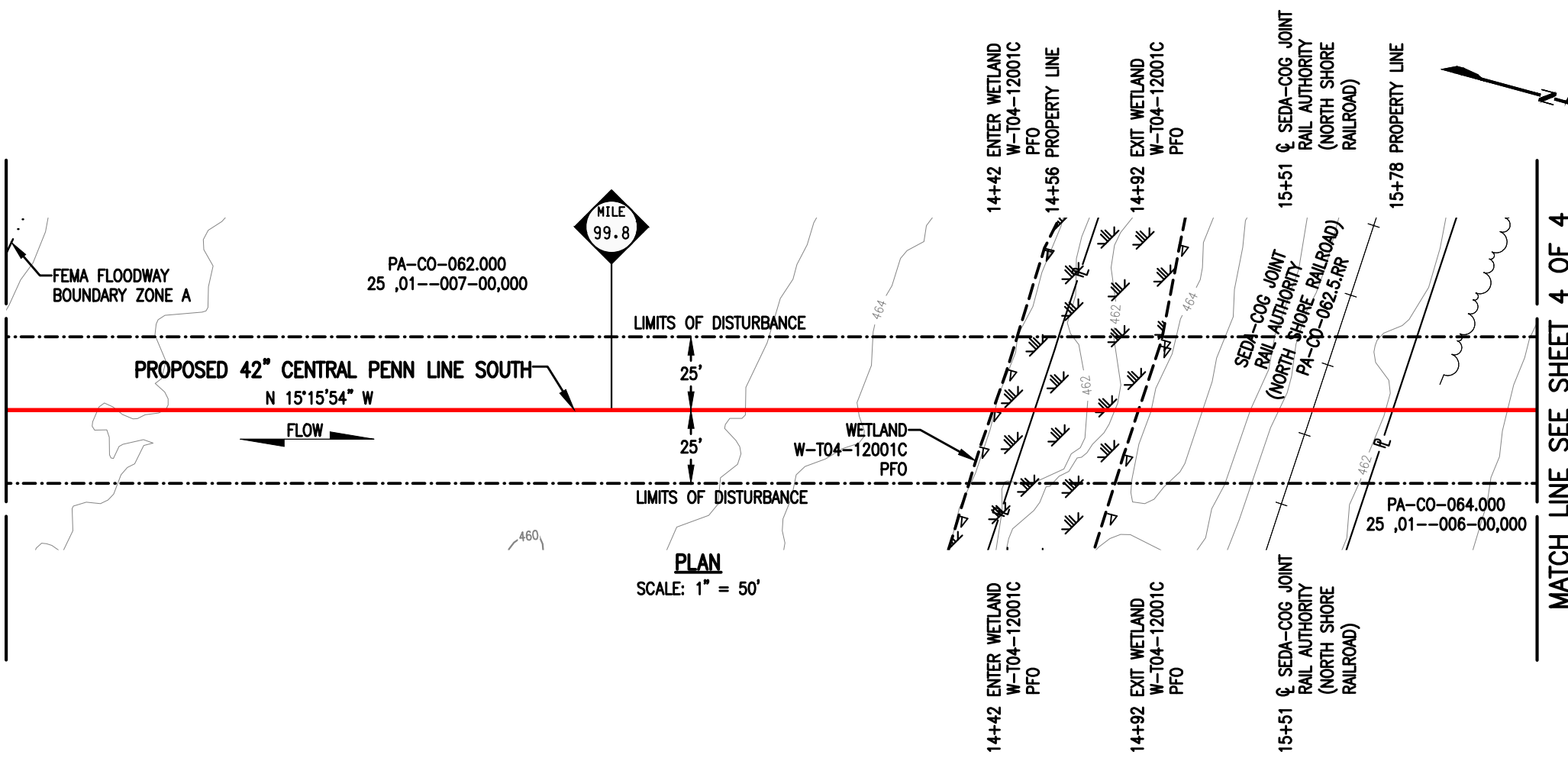
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1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

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-T04-12001
M.P. 99.66
FRANKLIN & MONTOUR TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA

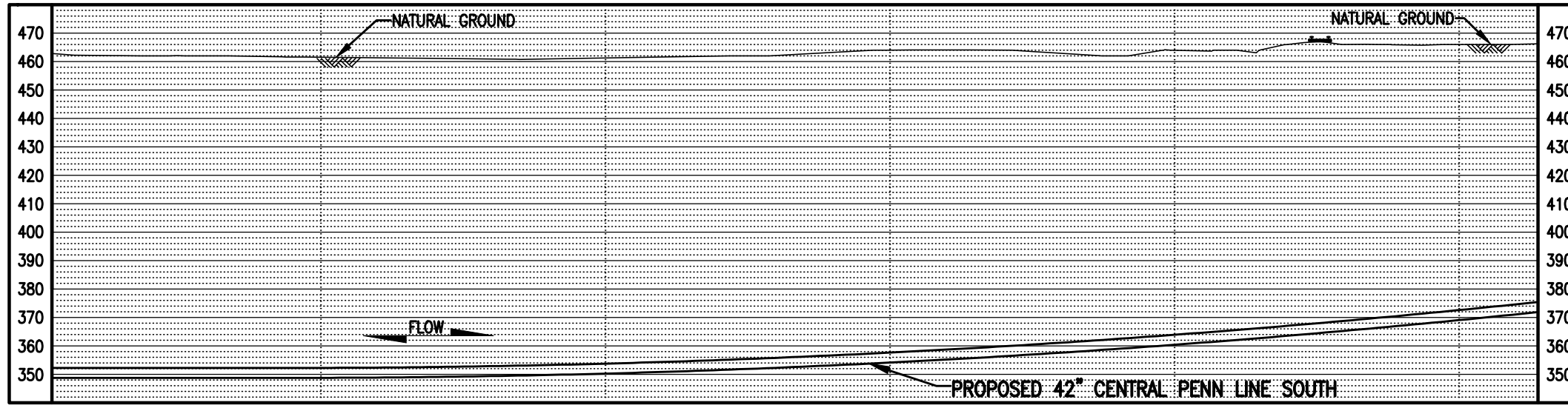
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CHECKED BY: ML	DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/99.66-01	SHEET 2
WO: 1161503		9/30/2016 jlibeast	OF 4

MATCH LINE SEE SHEET 2 OF 4

MATCH LINE SEE SHEET 4 OF 4



PLAN
SCALE: 1" = 50'



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
	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	W.O. NO.	CHK.	APP.
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/25/16	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-T04-12001
M.P. 99.66
MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

Williams

DRAWN BY:	LL	DATE:	05/18/15	ISSUED FOR BID:		SCALE:	1" = 50'
CHECKED BY:	ML	DATE:	06/05/15	ISSUED FOR CONSTRUCTION:		REVISION:	1
APPROVED BY:	MJH	DATE:	06/08/15	DRAWING NUMBER:	24-1600-70-09-A/99.66-01	SHEET	3
WO:	1161503					OF	4

MATCH LINE SEE SHEET 3 OF 4

LIMITS OF DISTURBANCE

PROPOSED 42" CENTRAL PENN LINE SOUTH

N 15°15'54" W

FLOW

LIMITS OF DISTURBANCE

PA-CO-064.000
25,01--00-600,000

PLAN

SCALE: 1" = 50'

18+45 FEMA FLOODWAY BOUNDARY ZONE A

19+03 FEMA FLOODWAY BOUNDARY ZONE A

20+10 FEMA FLOODWAY BOUNDARY ZONE A

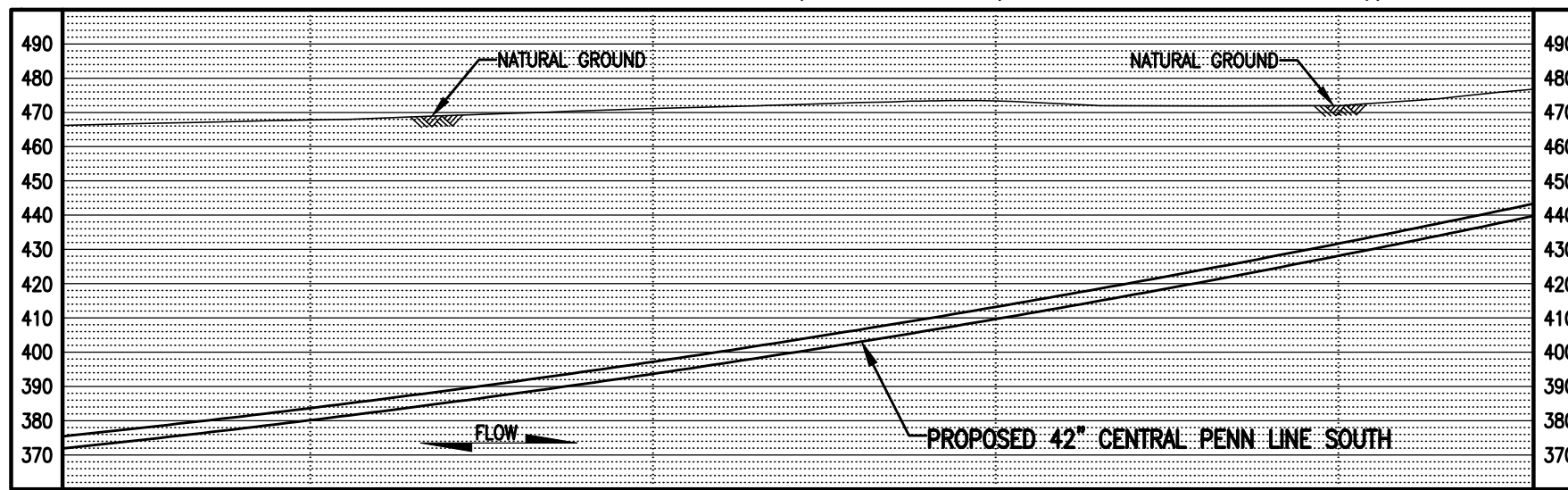
MILE 99.9

FEMA FLOODWAY BOUNDARY ZONE A

18+45 FEMA FLOODWAY BOUNDARY ZONE A

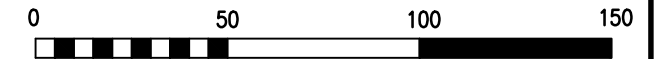
19+03 FEMA FLOODWAY BOUNDARY ZONE A

20+10 FEMA FLOODWAY BOUNDARY ZONE A



PROFILE

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



SCALE IN FEET

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

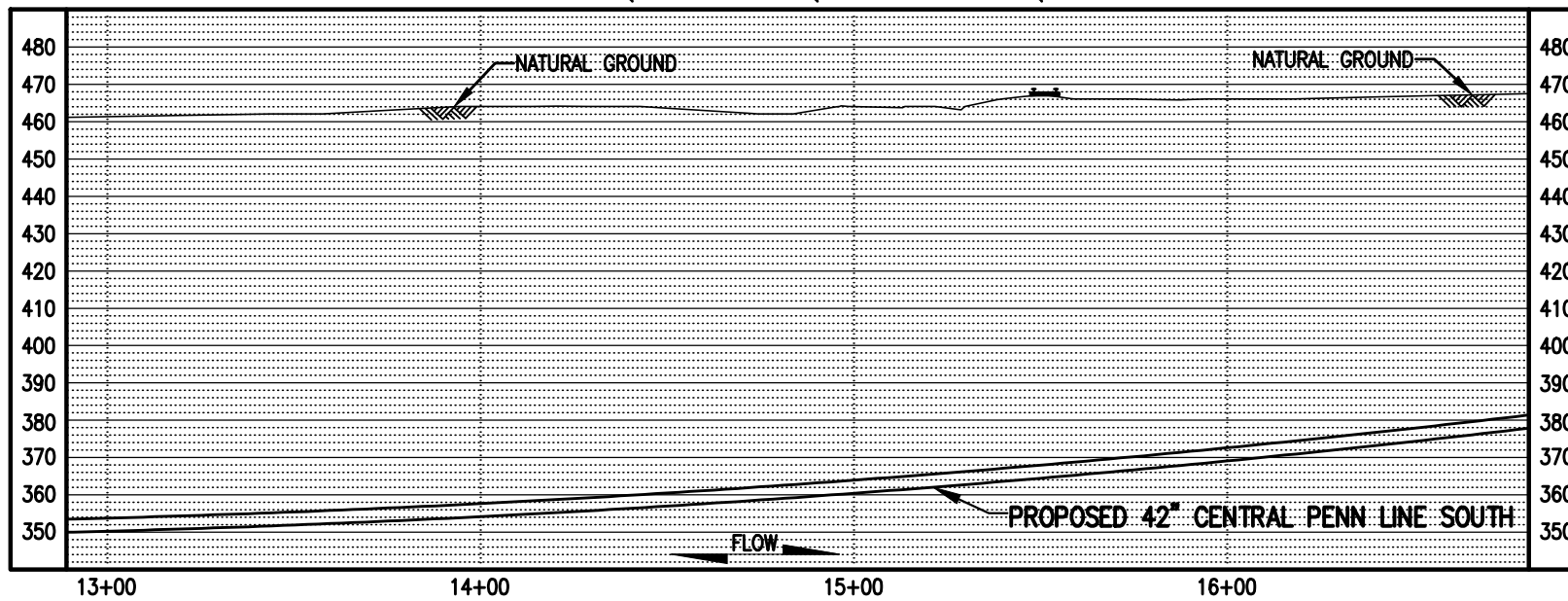
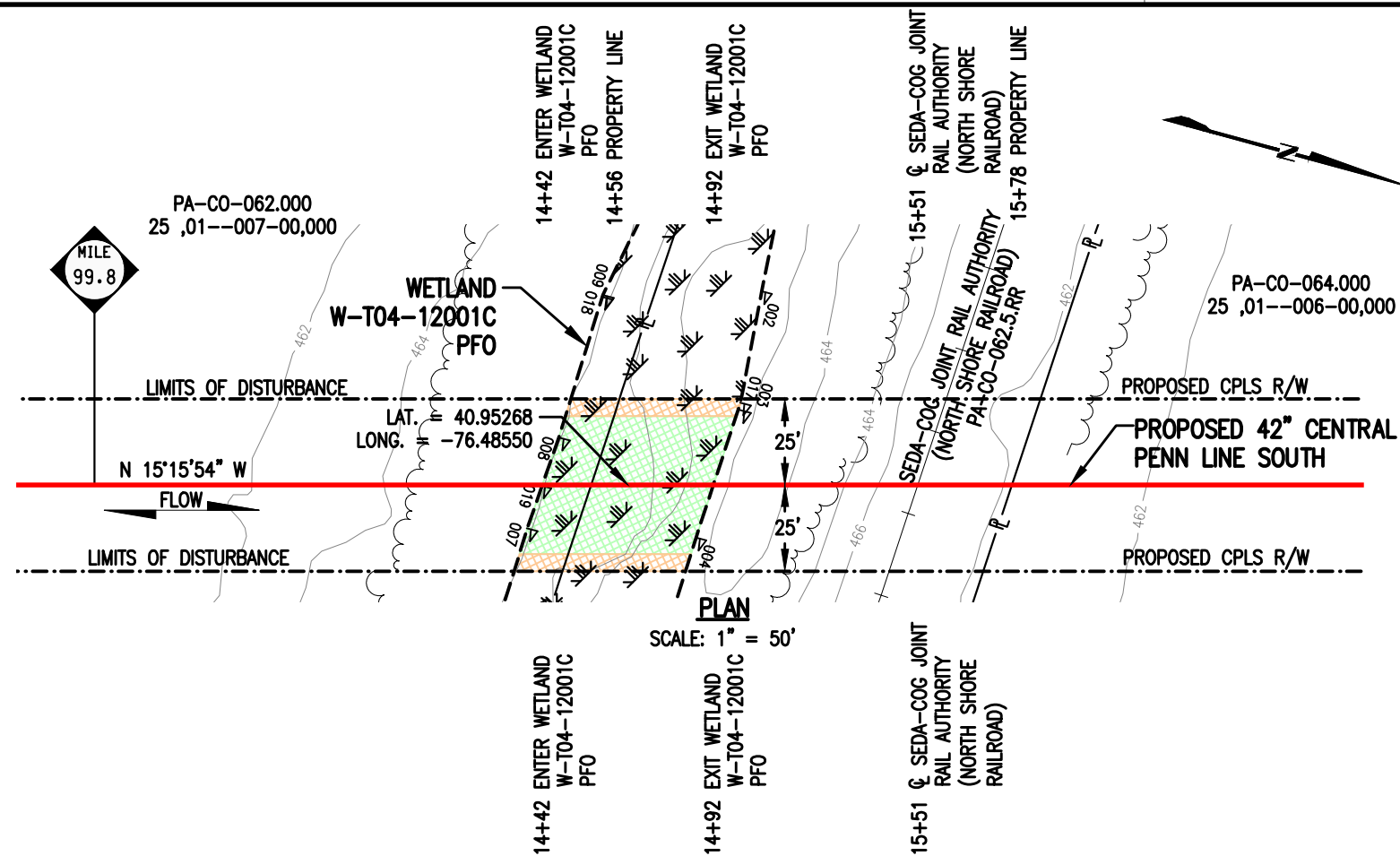
WOOD GROUP MUSTANG, INC.

DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/25/16	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-T04-12001
© M.P. 99.66
MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

Williams

DRAWN BY: LL	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/99.66-01	SHEET 4
WO: 1161503		9/30/2016 jibeast	OF 4



WETLAND DISTURBANCE:

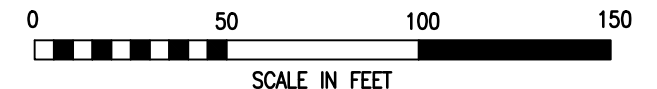
WETLAND W-T04-12001C	ACRE
TEMPORARY DISTURBANCE	0.0114
PERMANENT DISTURBANCE	0.0456
TOTAL DISTURBANCE	0.0570

NOTES:

1. WETLAND CROSSING METHOD FOR W-T04-12001C SHALL BE HDD. NO PHYSICAL SURFACE IMPACTS ARE PROPOSED TO THIS FEATURE DUE TO HDD CROSSING METHOD.
2. STATION 14+00 SHOWN IS EQUAL TO STATION 5270+32 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

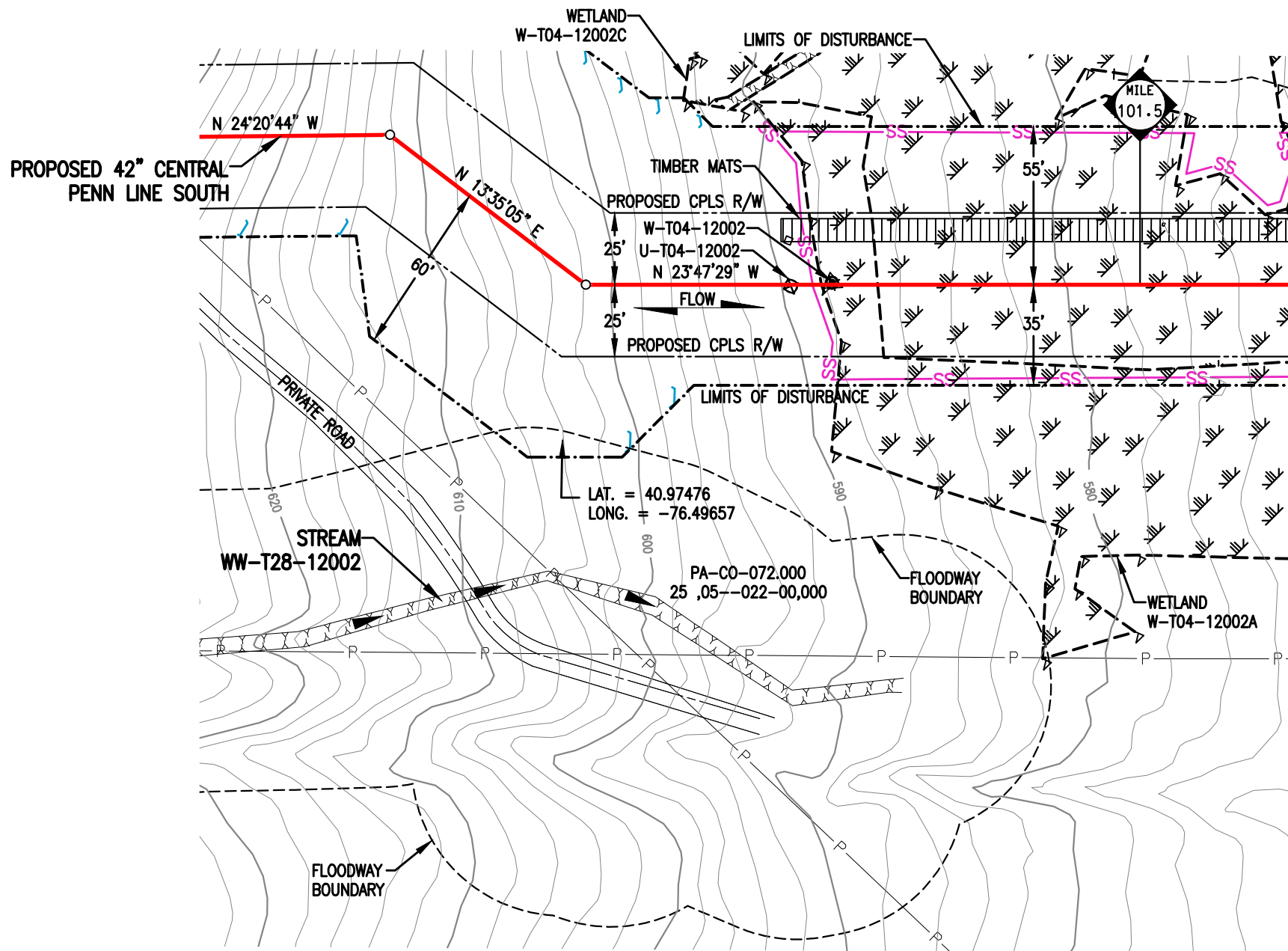
1. T.B.M. SURVEY CONTROL POINT - 26' LT. OF M.P. 99.84, ELEV. = 466.22' (NAVD88).



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-T04-12001C M.P. 99.83 MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA											
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: VC	DATE: 05/19/15	ISSUED FOR BID:	SCALE: 1" = 50'	
0	08/20/15	THL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 05/26/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
1	10/25/16	VT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/99.82-01	SHEET 1	
							12:44pm	9/30/2016	OF 1		
							W.O. NO. 1161503				



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

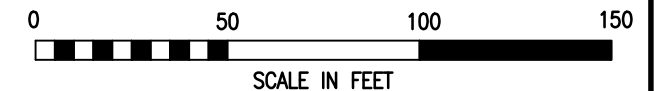
STREAM WW-T28-12002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0074
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0074
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	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.

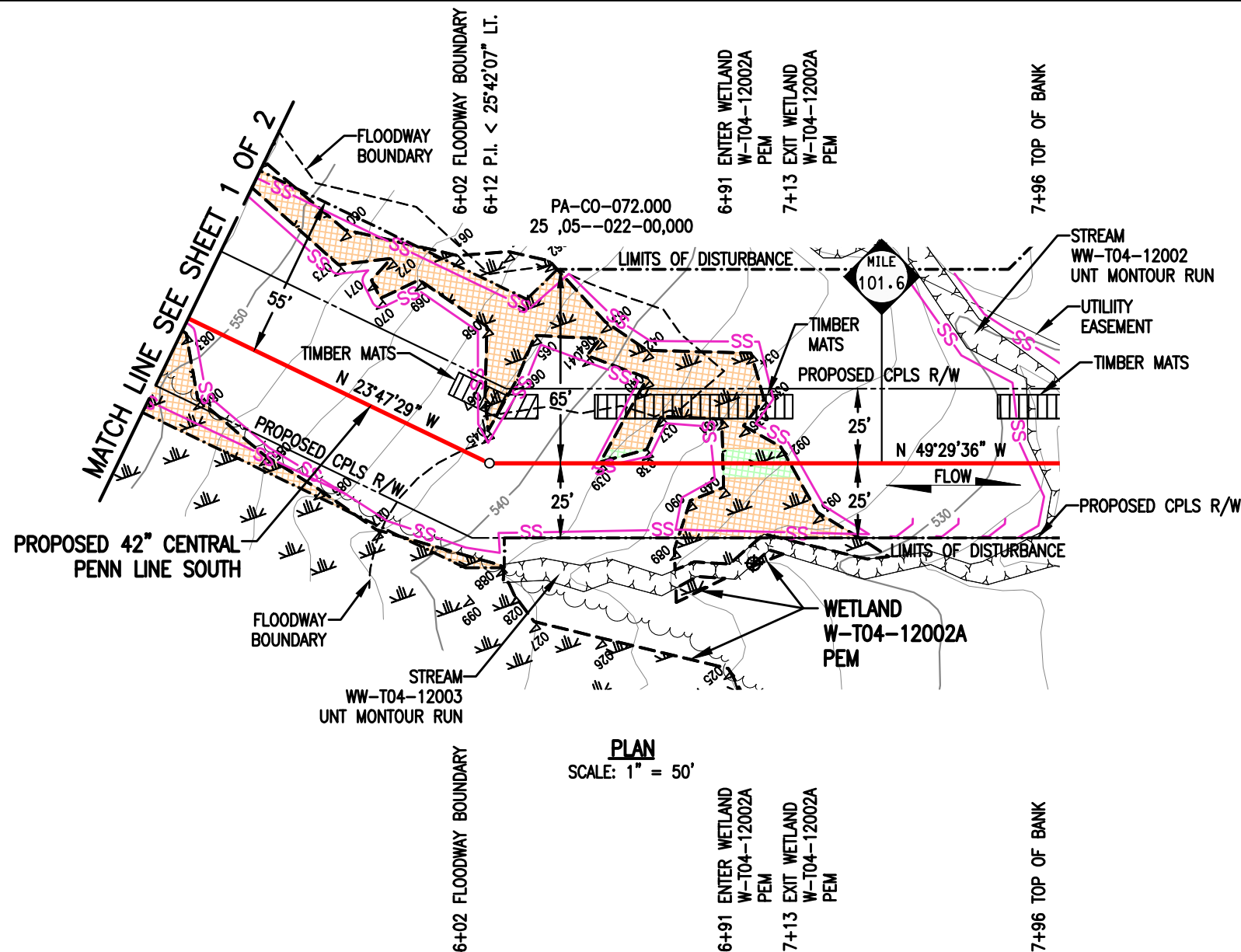
SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 147' LT. OF M.P. 101.48, ELEV. = 586.17' (NAVD88).

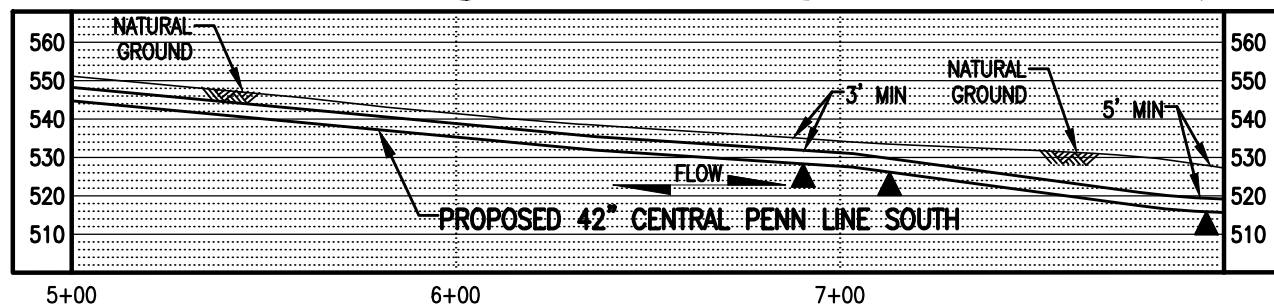


LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND 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	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-T28-12002 M.P. 101.46 MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA									
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JJB	DATE: 06/30/16	ISSUED FOR BID:	SCALE: 1" = 50'	
0	10/25/16	JJB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 06/30/16	ISSUED FOR CONSTRUCTION:	REVISION: 0	
							APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/101.46-01	SHEET 1	
							WO: 1161503		9/30/2016	OF 1	



PLAN
SCALE: 1" = 50'



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



LEGEND

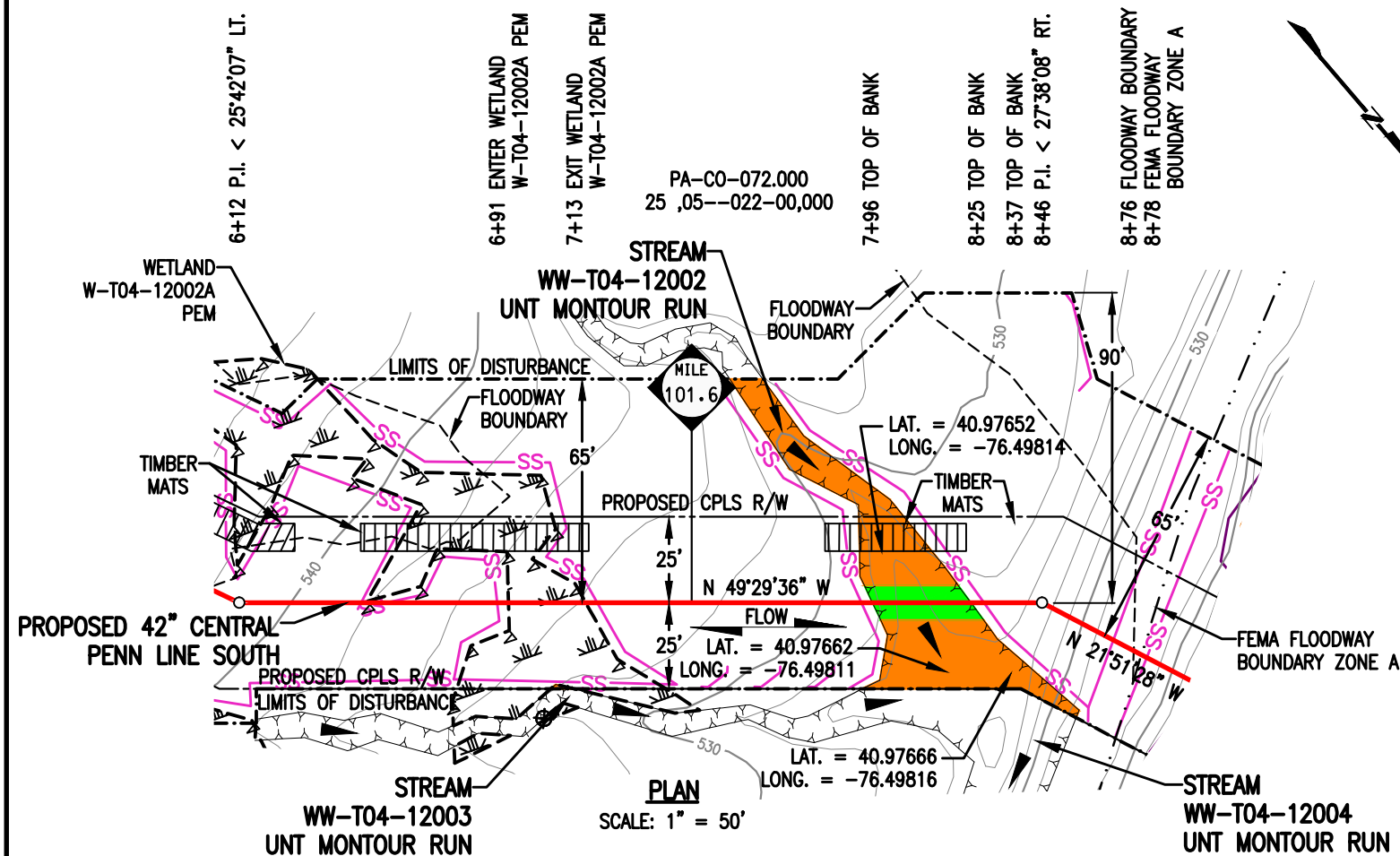
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- LIMITS OF DISTURBANCE
- PROPOSED CPLS R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- EXISTING POWER LINE
- EXISTING FENCE
- WETLAND FLAGS
- PHOTO DATA POINT
- WETLAND DATA POINT
- UPLAND DATA POINT
- WELL POINT
- 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 WETLAND IMPACT
- TEMPORARY WETLAND IMPACT



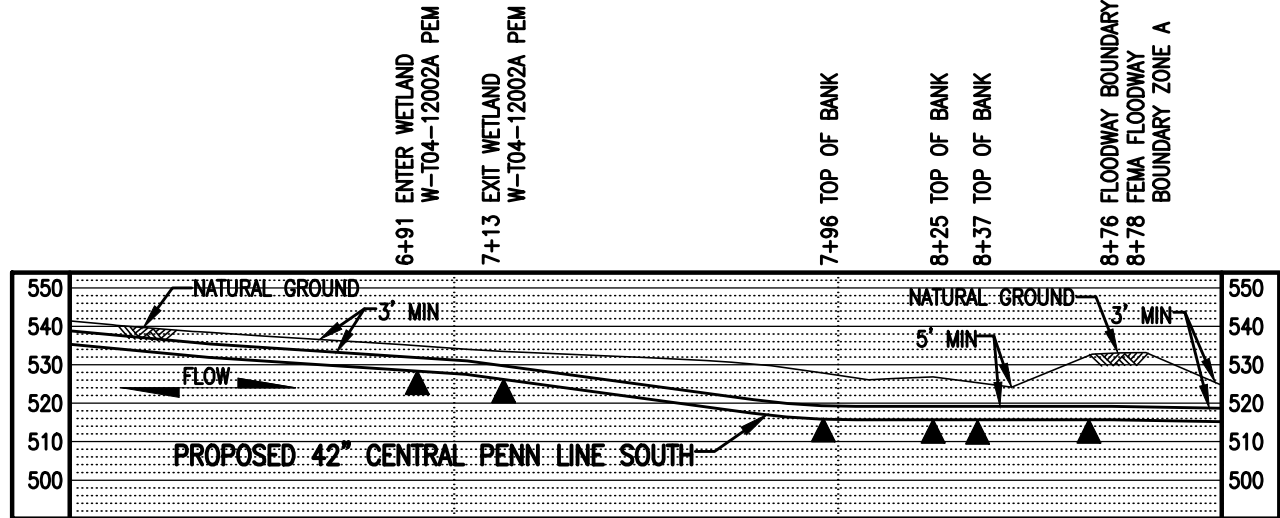
DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
WETLAND CROSSINGS W-T04-12002C @ M.P. 101.47
& W-T04-12002A @ M.P. 101.52
MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: VC	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 05/26/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/101.50-01	SHEET 2 OF 2
WC: 1161503		<small>9/29/2016 jibeast K:\103643-CPLS\Mapping\Wetlands\CPLS_PAN\Revised 105\24-1600-70-20-A_101.50-01.dwg</small>	



PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-T04-12002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0290
PERMANENT STREAM DISTURBANCE	0.0066
TOTAL STREAM DISTURBANCE	0.0356
TEMPORARY FLOODWAY DISTURBANCE	0.3581
PERMANENT FLOODWAY DISTURBANCE	0.0502
TOTAL FLOODWAY DISTURBANCE	0.4083

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	28.58
STREAM LENGTH	102.11

STREAM WW-T04-12004	ACRE
TEMPORARY STREAM DISTURBANCE	0.0044
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0044
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	12.69
STREAM LENGTH	32.21

STREAM WW-T04-12003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0065
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0065
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	14.08
STREAM LENGTH	2.55

GENERAL NOTES FOR STREAMS:

1. STREAM CROSSING METHOD FOR WW-T04-12002 SHALL BE PUMP AND DAM (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. STREAMS WW-T04-12003 & WW-T04-12004 DO NOT CROSS PROPOSED PIPELINE.
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 7+00 SHOWN IS EQUAL TO STATION 5364+04 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 26' LT. OF M.P. 101.59, ELEV. = 535.77' (NAVD88).



LEGEND

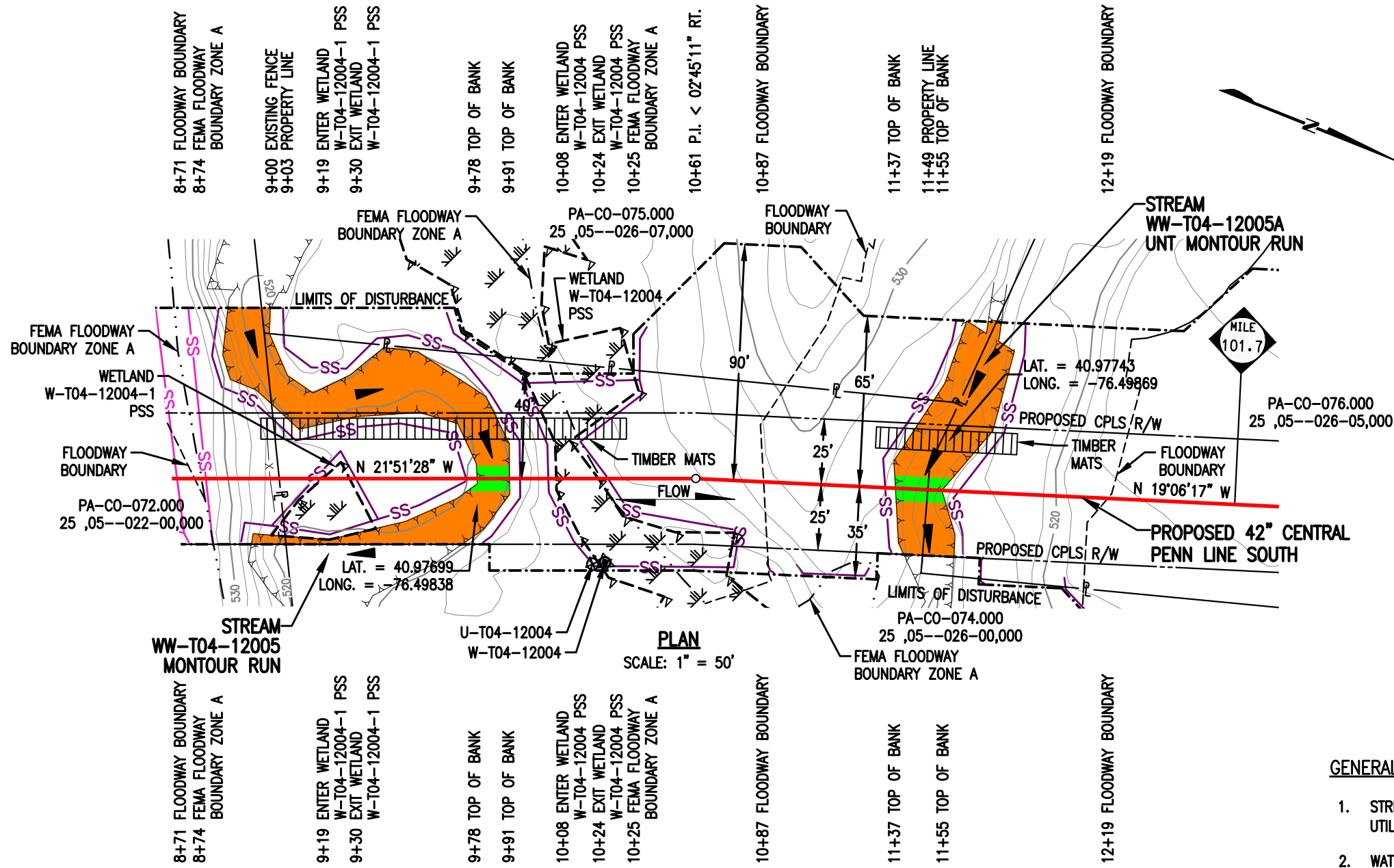
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLS R/W
- P — PROPERTY LINE
- F — FOREIGN PIPELINE
- - - WETLAND AREA
- ▲ STREAM FLOW
- P — EXISTING POWER LINE
- X — EXISTING FENCE

- ▲ 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
- 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 CROSSINGS WW-T04-12002 & WW-T04-12003 @ M.P. 101.61 AND WW-T04-12004 @ M.P. 101.62 MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/101.61-01	SHEET 1
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	W.O. NUMBER: 1161503	DATE: 06/08/15	104pm 9/30/2016 jibeast	OF 1



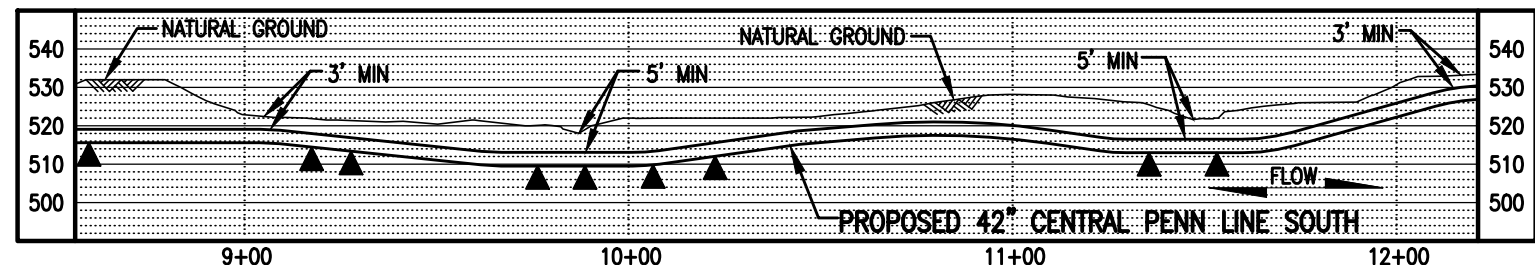
STREAM DISTURBANCE:

STREAM WW-T04-12005	ACRE
TEMPORARY STREAM DISTURBANCE	0.0700
PERMANENT STREAM DISTURBANCE	0.0030
TOTAL STREAM DISTURBANCE	0.0730
TEMPORARY FLOODWAY DISTURBANCE	0.1677
PERMANENT FLOODWAY DISTURBANCE	0.0259
TOTAL FLOODWAY DISTURBANCE	0.1936

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	12.33
STREAM LENGTH	160.38

STREAM WW-T04-12005A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0414
PERMANENT STREAM DISTURBANCE	0.0044
TOTAL STREAM DISTURBANCE	0.0458
TEMPORARY FLOODWAY DISTURBANCE	0.2131
PERMANENT FLOODWAY DISTURBANCE	0.0257
TOTAL FLOODWAY DISTURBANCE	0.2388

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	17.67
STREAM LENGTH	95.87



GENERAL NOTES FOR STREAMS WW-T04-12005 & WW-T04-12005A:

1. STREAM CROSSING METHODS 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. STREAM WW-T04-12005 IS WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
4. STATION 9+00 SHOWN IS EQUAL TO STATION 5366+09 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 11' LT. OF M.P. 101.63, ELEV. = 522.16' (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		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		

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-T04-12005 @ M.P. 101.65
& WW-T04-12005A @ M.P. 101.68
MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

Williams

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	LL	05/18/15		1" = 50'
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	ML	06/05/15		
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	MJH	06/08/15		

DRAWING NO. _____ REFERENCE TITLE _____

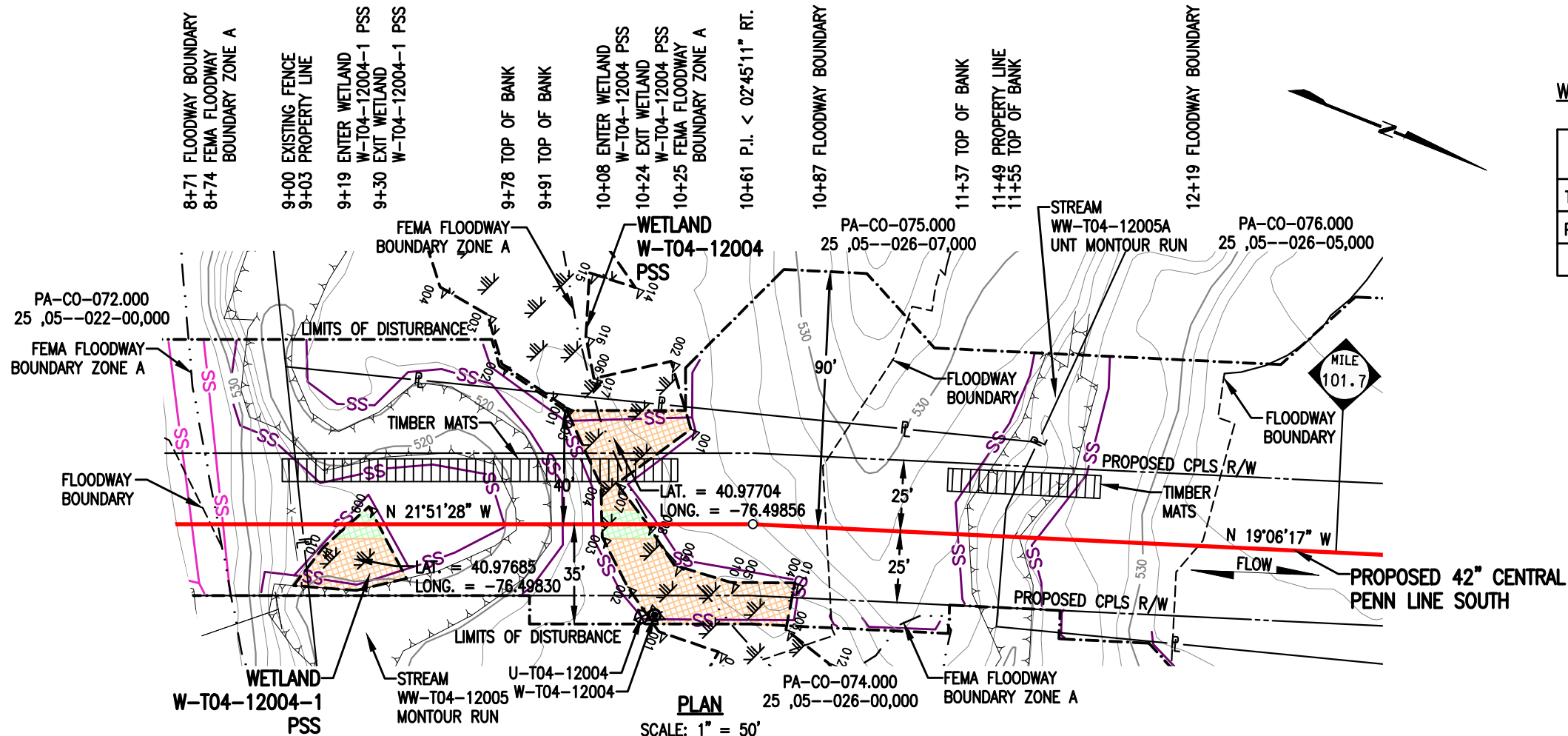
DRAWING NUMBER: **24-1600-70-09-A/101.64-01** SHEET 1 OF 1

W.O. NUMBER: 1161503

DATE: 10/5/2016

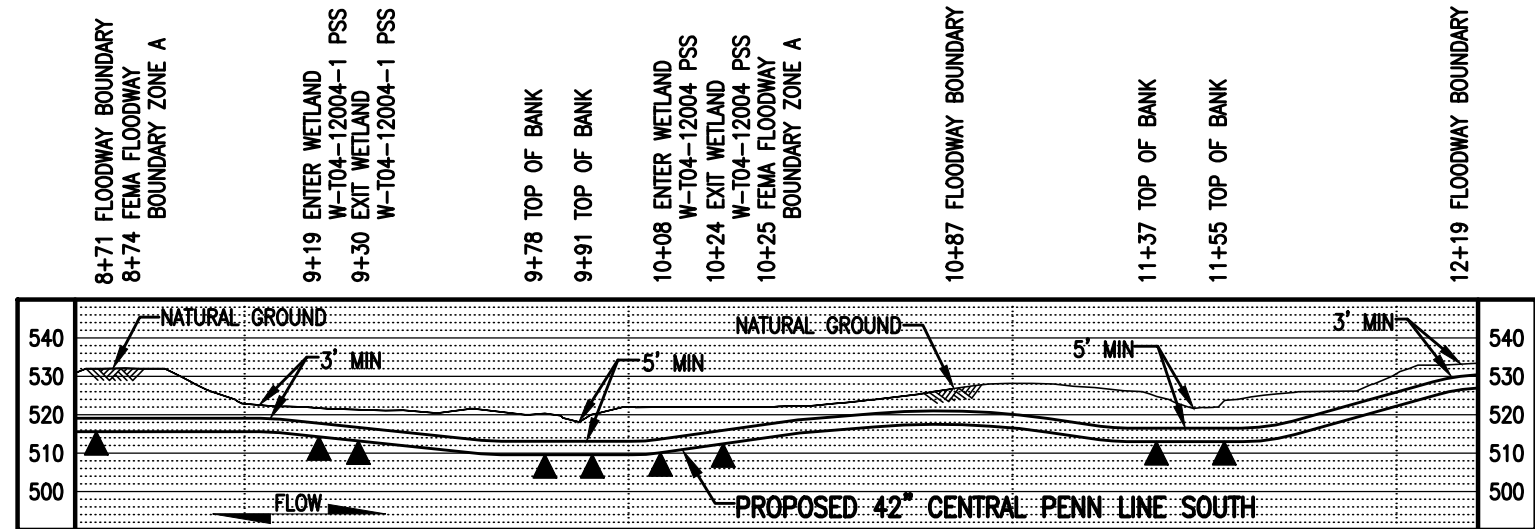
SCALE: 1" = 50'

REVISION: 2



WETLAND DISTURBANCE:

WETLAND W-T04-12004 / W-T04-12004-1	ACRE
TEMPORARY DISTURBANCE	0.0562
PERMANENT DISTURBANCE	0.0060
TOTAL DISTURBANCE	0.0622

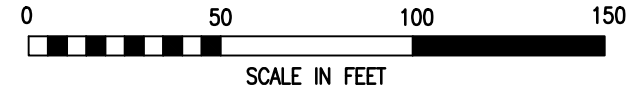


NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 9+00 SHOWN IS EQUAL TO STATION 5366+09 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

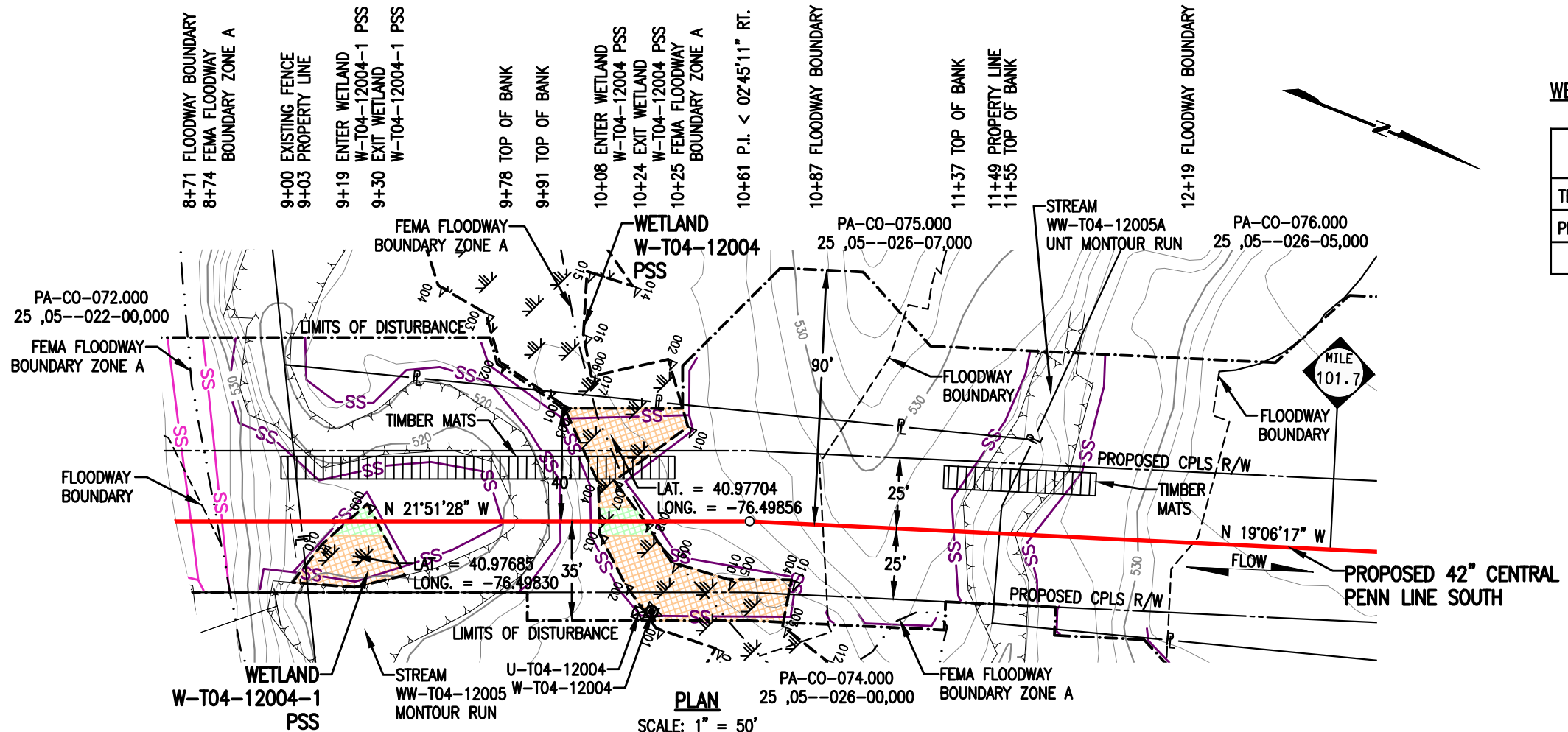
- T.B.M. SURVEY CONTROL POINT - 11' LT. OF M.P. 101.63, ELEV. = 522.16' (NAVD88).



LEGEND

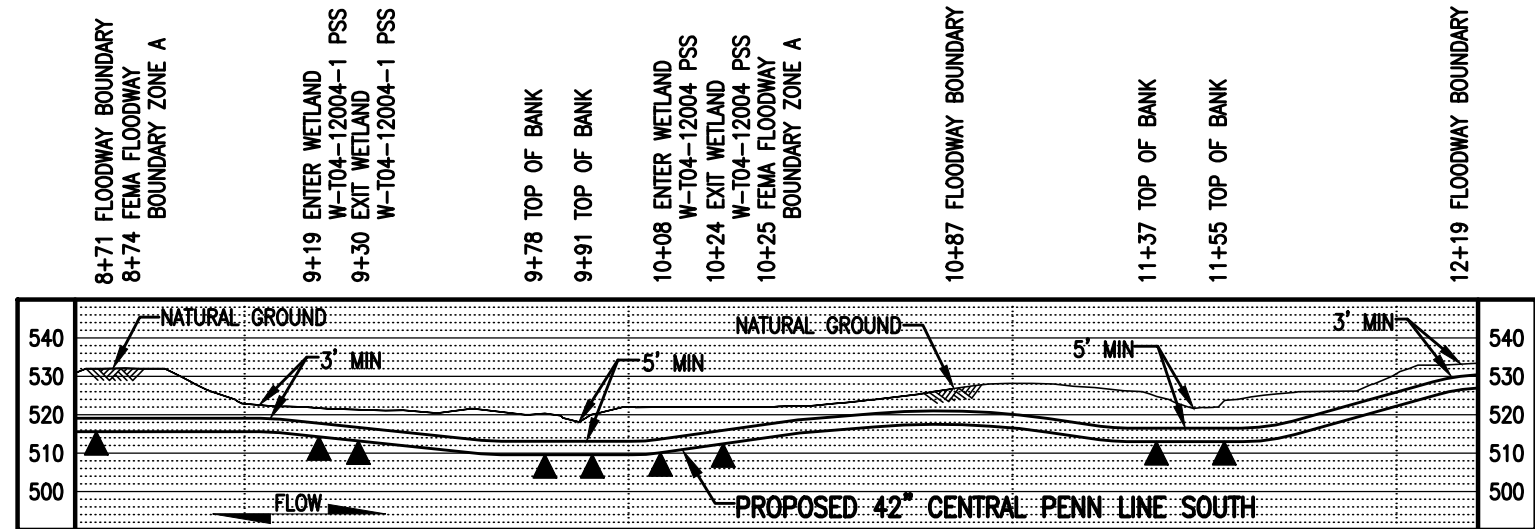
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		WETLAND DATA POINT
	EXISTING TGPL R/W		UPLAND DATA POINT		WELL POINT
	LIMITS OF DISTURBANCE		TRENCH PLUG		WATERBODY
	PROPOSED CPLS R/W		TREE LINE		12" SEDIMENT BARRIER
	PROPERTY LINE		FLOODWAY BOUNDARY		18" SEDIMENT BARRIER
	FOREIGN PIPELINE		FEMA FLOODWAY BOUNDARY		24" SEDIMENT BARRIER
	WETLAND AREA		PERMANENT WETLAND IMPACT		32" SEDIMENT BARRIER
	EXISTING POWER LINE		TEMPORARY WETLAND IMPACT		TOP OF BANK
	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 WETLAND CROSSINGS W-T04-12004 @ M.P. 101.65 / W-T04-12004-1 @ M.P. 101.64 MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR MJH
2	10/25/16	VT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: LL		DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/101.65-01	SHEET 1	
IWO: 1161503		10/26/2016	OF 1		



WETLAND DISTURBANCE:

WETLAND W-T04-12004 / W-T04-12004-1	ACRE
TEMPORARY DISTURBANCE	0.0562
PERMANENT DISTURBANCE	0.0060
TOTAL DISTURBANCE	0.0622



- NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 9+00 SHOWN IS EQUAL TO STATION 5366+09 ON THE EROSION AND SEDIMENT CONTROL PLAN.

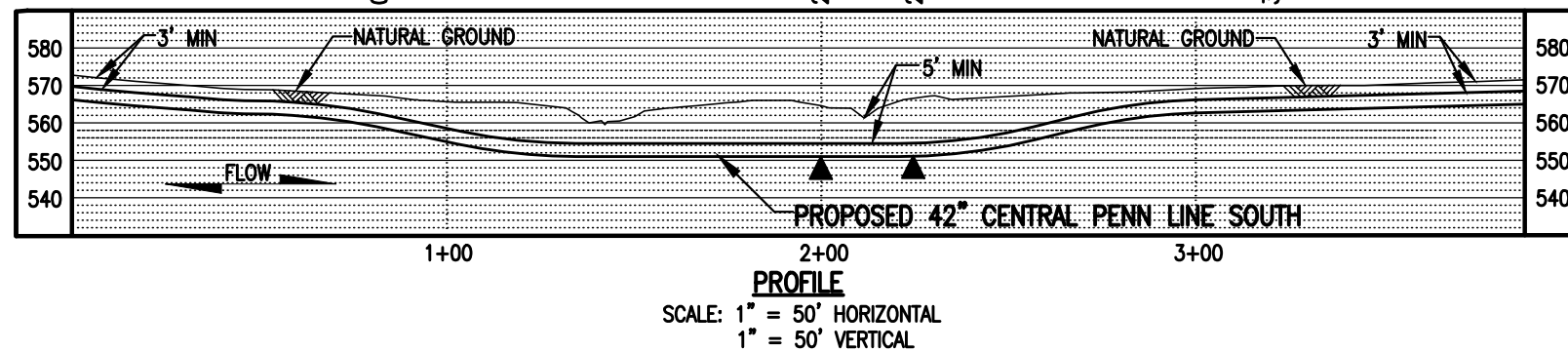
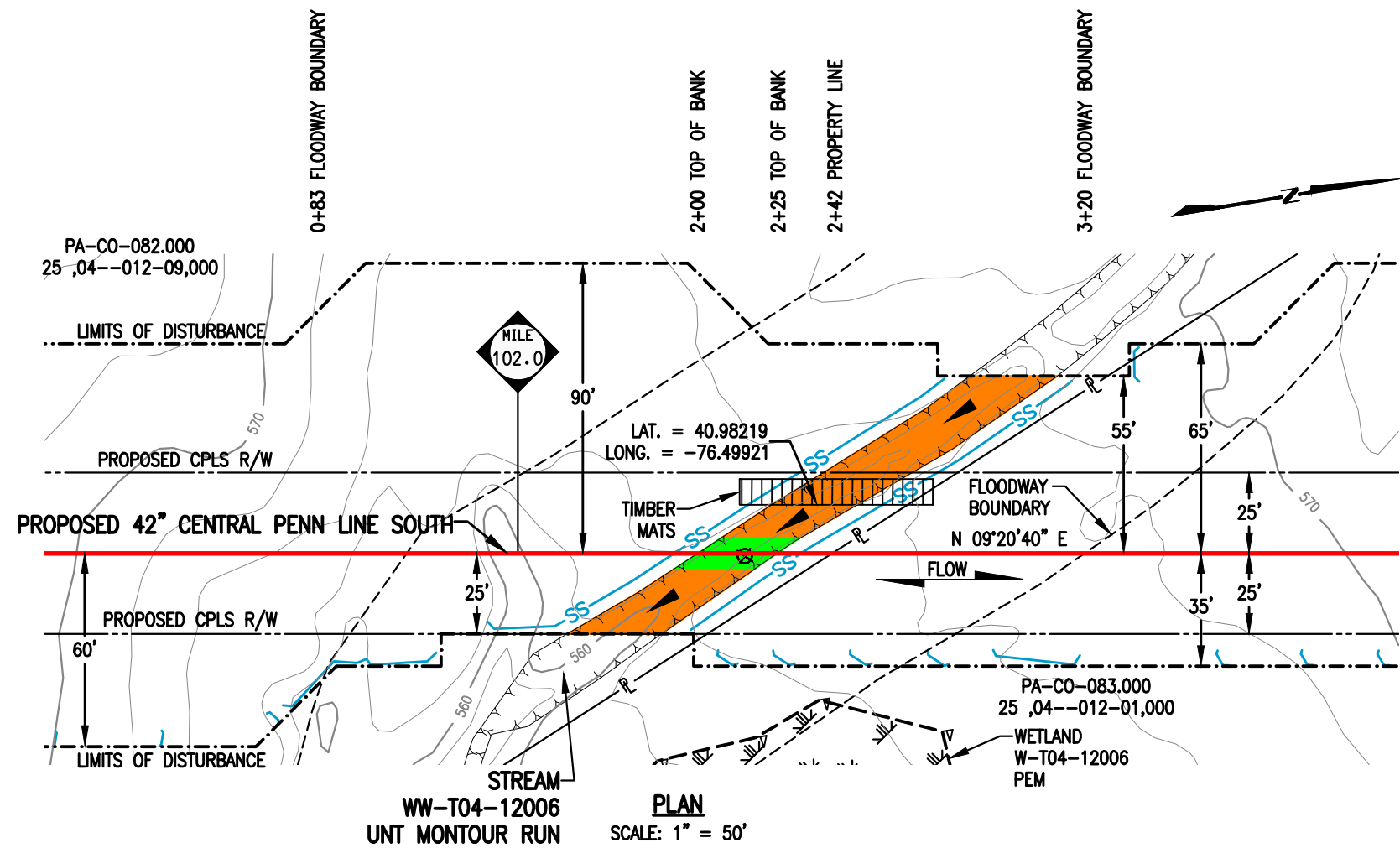
- SURVEY NOTES:**
- T.B.M. SURVEY CONTROL POINT - 11' LT. OF M.P. 101.63, ELEV. = 522.16' (NAVD88).



LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		WETLAND DATA POINT
	EXISTING TGPL R/W		UPLAND DATA POINT		WELL POINT
	LIMITS OF DISTURBANCE		TRENCH PLUG		WATERBODY
	PROPOSED CPLS R/W		TREE LINE		12" SEDIMENT BARRIER
	PROPERTY LINE		FLOODWAY BOUNDARY		18" SEDIMENT BARRIER
	FOREIGN PIPELINE		FEMA FLOODWAY BOUNDARY		24" SEDIMENT BARRIER
	WETLAND AREA		PERMANENT WETLAND IMPACT		32" SEDIMENT BARRIER
	EXISTING POWER LINE		TEMPORARY WETLAND IMPACT		TOP OF BANK
	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 WETLAND CROSSINGS W-T04-12004 @ M.P. 101.65 W-T04-12004-1 @ M.P. 101.64 MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA									
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'	
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER:		
2	10/25/16	VT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	W.O. NUMBER: 1161503	DATE: 10/26/2016	24-1600-70-20-A/101.65-01 SHEET 1 <small>9:58am 10/26/2016 t3le</small> OF 1		



STREAM DISTURBANCE:

STREAM WW-T04-12006	ACRE
TEMPORARY STREAM DISTURBANCE	0.0431
PERMANENT STREAM DISTURBANCE	0.0057
TOTAL STREAM DISTURBANCE	0.0488
TEMPORARY FLOODWAY DISTURBANCE	0.3498
PERMANENT FLOODWAY DISTURBANCE	0.0426
TOTAL FLOODWAY DISTURBANCE	0.3924
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	24.63
STREAM LENGTH	161.30

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 5385+16 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. I.R. - 315' RT. OF M.P. 101.92, ELEV. = 600.76' (NAVD88).



LEGEND

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

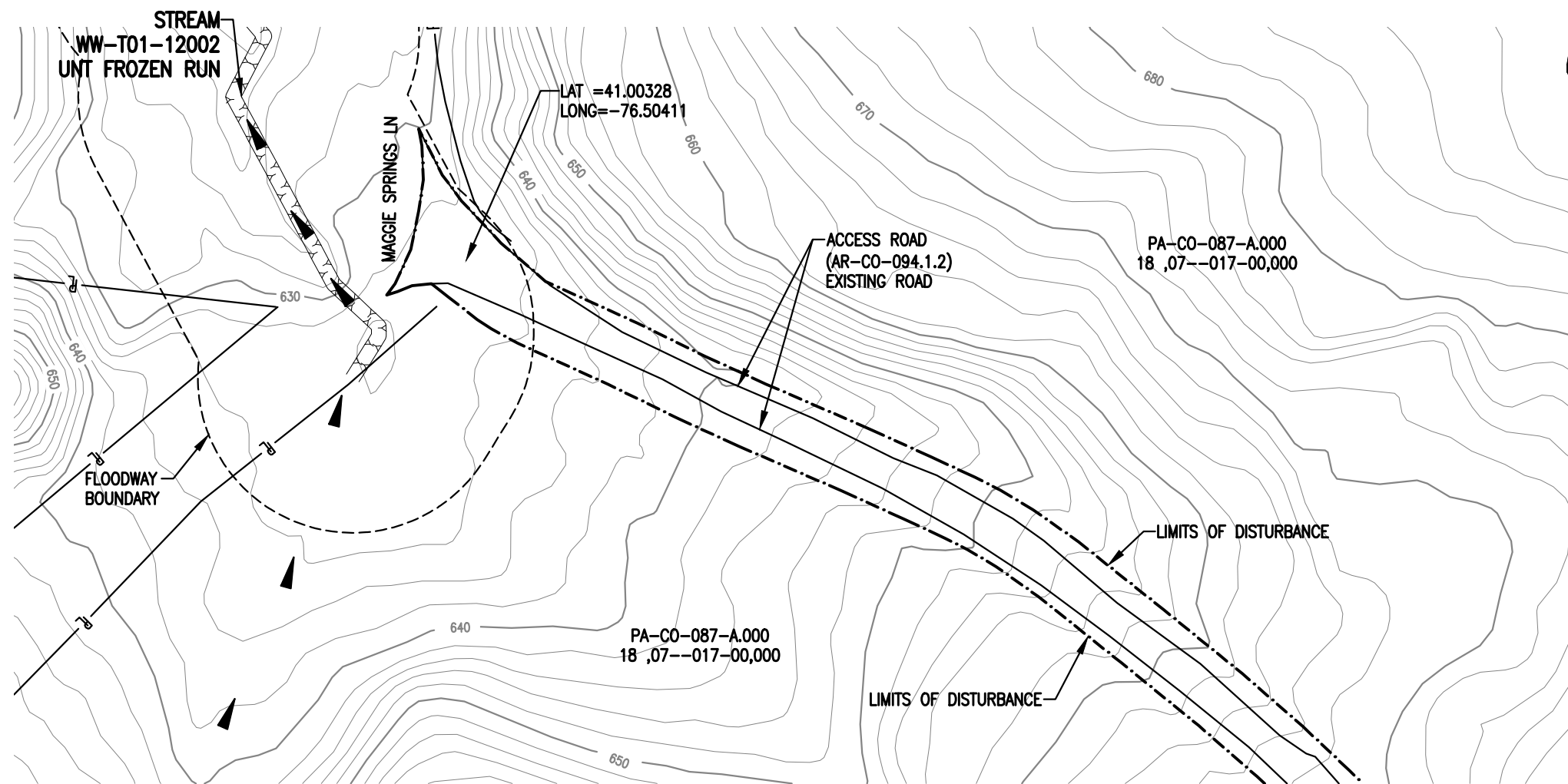
- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — TOP OF BANK
- PERMANENT STREAM IMPACT
- TEMPORARY STREAM IMPACT

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-T04-12006 © M.P. 102.02 MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA					
NO.		DATE						SCALE: 1" = 50'	
0		08/20/15		DRAWN BY: THL		DATE: 05/18/15		ISSUED FOR BID:	
1		10/25/16		CHECKED BY: ML		DATE: 06/05/15		ISSUED FOR CONSTRUCTION:	
				APPROVED BY: MJH		DATE: 06/08/15		DRAWING NUMBER: 24-1600-70-09-A/102.01-01	
				NO.:		1161503		10/24/2016	
				BY:		TL		10/24/2016	
				REVISION DESCRIPTION:		ISSUED FOR PADEP 105 PERMIT		10/24/2016	
				W.O. NO.:		1161503		10/24/2016	
				CHK.:		CLR		10/24/2016	
				APP.:		MJH		10/24/2016	
				DRAWN BY:		THL		10/24/2016	
				CHECKED BY:		ML		10/24/2016	
				APPROVED BY:		MJH		10/24/2016	
				NO.:		1161503		10/24/2016	

STREAM DISTURBANCE:

STREAM WW-T01-12002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0327
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0327

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



GENERAL NOTES:

1. STREAM DOES NOT CROSS ACCESS 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 - 1903' LT. OF M-0423 M.P. 1.15, ELEV. = 631.28' (NAVD88).

PLAN
SCALE: 1" = 50'



LEGEND

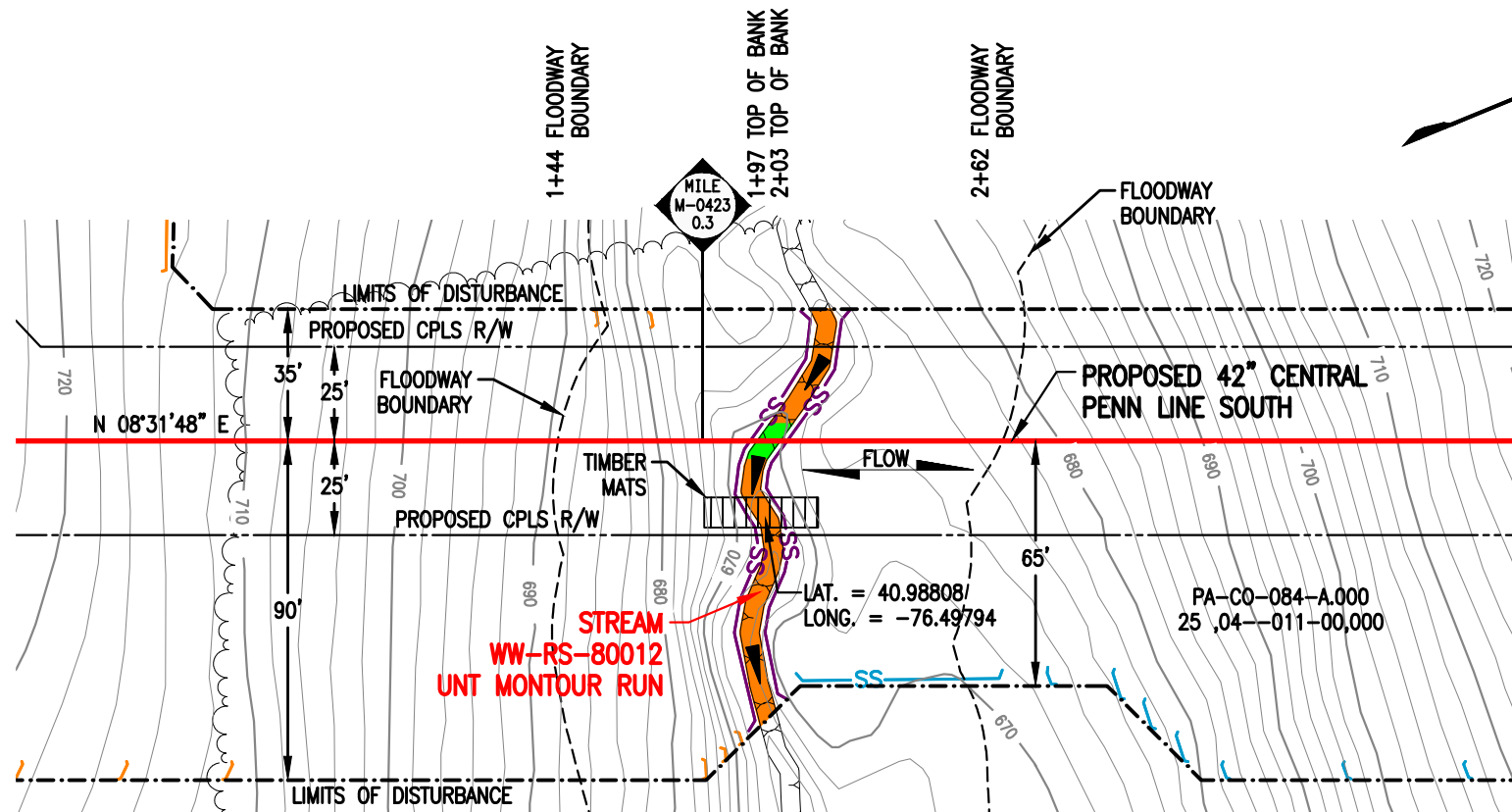
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - LIMITS OF DISTURBANCE
- - - - PROPOSED CPLS R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

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

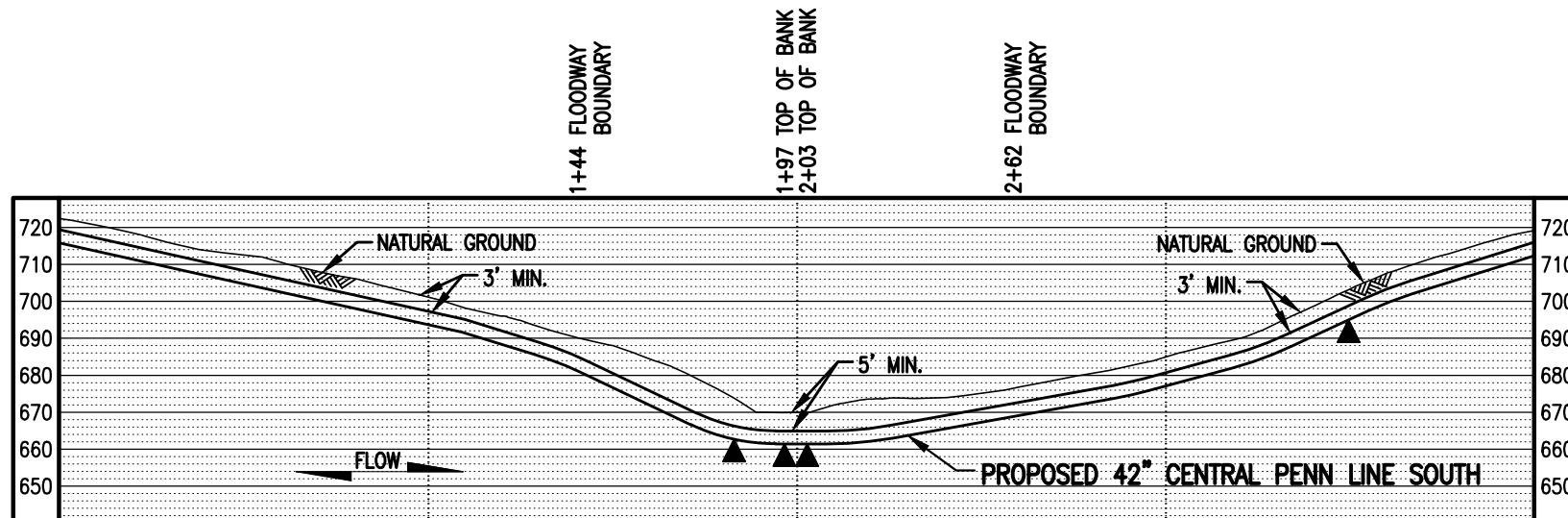
WOOD GROUP MUSTANG, INC.

- 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-T01-12002 ● M-0423 M.P. 1.15 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
				Williams						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MF	DATE: 06/20/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	MF	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/AR-CO-094.1.2-01	SHEET 1
							WO: 1161503	10/3/2016	10/5/2016 jlibeast	



PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-RS-80012	ACRE
TEMPORARY STREAM DISTURBANCE	0.0120
PERMANENT STREAM DISTURBANCE	0.0014
TOTAL STREAM DISTURBANCE	0.0134
TEMPORARY FLOODWAY DISTURBANCE	0.2465
PERMANENT FLOODWAY DISTURBANCE	0.0257
TOTAL FLOODWAY DISTURBANCE	0.2722

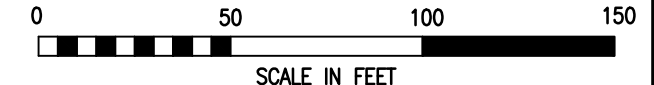
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	6.14
STREAM LENGTH	117.55

GENERAL NOTES:

1. THIS DRAWING CONTAINS REMOTE SENSING DATA.
2. STREAM CROSSING METHOD 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 WATERWAY.
4. STATION 1+00 SHOWN IS EQUAL TO M-0423 STATION 15+01 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

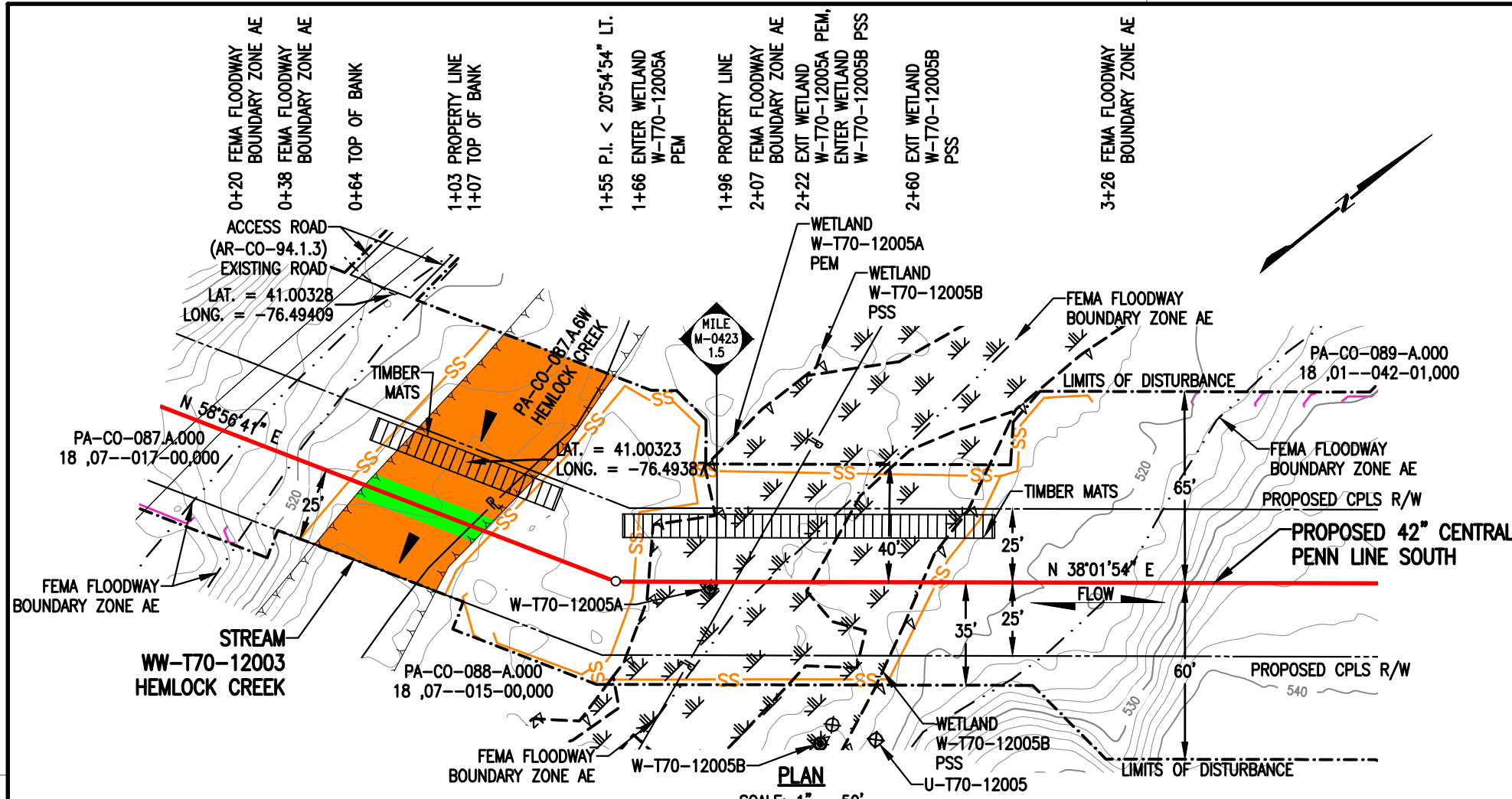
1. T.B.M. FOUND IRON ROD - 395.35' RT. OF M-0423 M.P. 0.3, ELEV. = 658.06' (NAVD88).



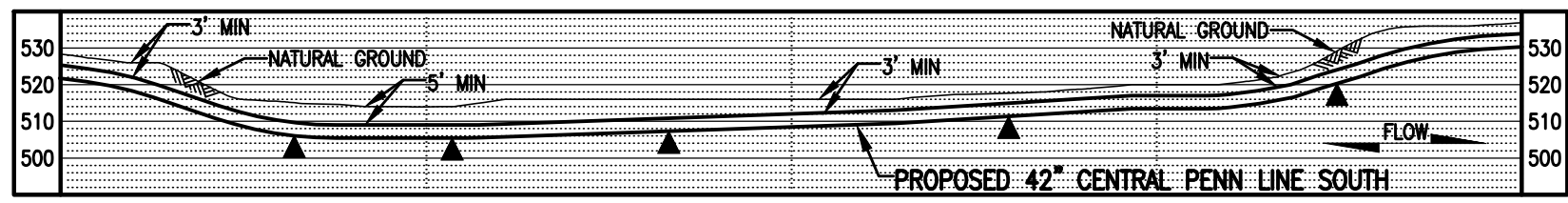
LEGEND

	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-RS-80012 M-0423 M.P. 0.3 MONTOUR TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: DLK DATE: 08/01/16 ISSUED FOR BID: SCALE: 1" = 50' CHECKED BY: CLR DATE: 08/01/16 ISSUED FOR CONSTRUCTION: REVISION: 0 APPROVED BY: MJH DATE: 08/01/16 DRAWING NUMBER: 24-1600-70-09-A/M-0423-0.3-01 SHEET 1 WO: 1161503 9:25am 10/25/2016 t3le K:\03643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\RS\24-1600-70-09-A_M-0423-0.3-01.dwg OF 1



PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-T70-12003A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0001
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0001

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

STREAM WW-T70-12003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0788
PERMANENT STREAM DISTURBANCE	0.0099
TOTAL STREAM DISTURBANCE	0.0887
TEMPORARY FLOODWAY DISTURBANCE	0.3256
PERMANENT FLOODWAY DISTURBANCE	0.0389
TOTAL FLOODWAY DISTURBANCE	0.3645

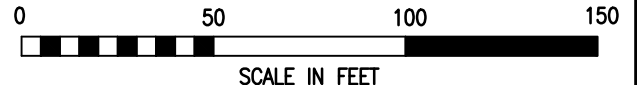
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	43.28
STREAM LENGTH	93.86

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 FLOODPLAIN PER FEMA FLOOD MAP DATA.
3. STATION 1+00 SHOWN IS EQUAL TO M-0423 STATION 78+31 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 37' RT. OF M-0423 M.P. 1.48, ELEV. = 512.14' (NAVD88).

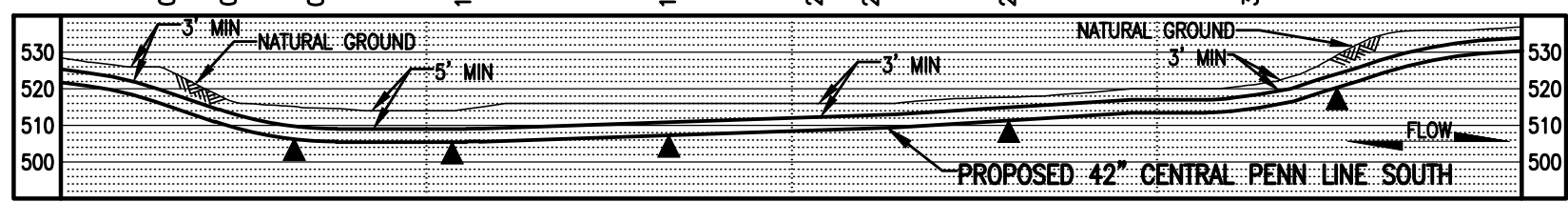
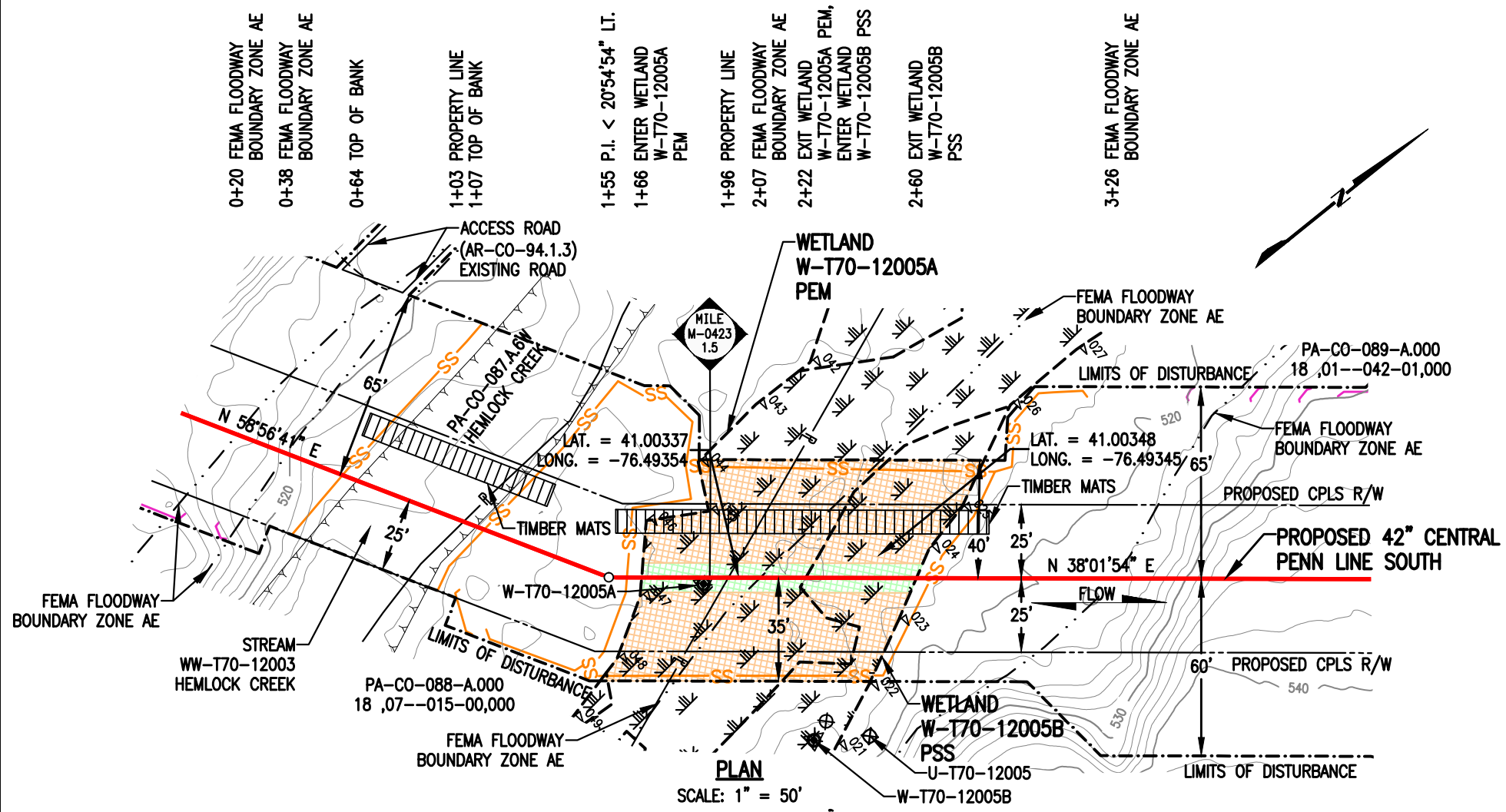


LEGEND

	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		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-T70-12003A & WW-T70-12003 @ M-0423 M.P. 1.47 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 07/15/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/15/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/15/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-1.47-01	SHEET 1
							W.O. NO: 1161503		10/24/2016	OF 1



WETLAND DISTURBANCE:

WETLAND W-T70-12005A	ACRE
TEMPORARY DISTURBANCE	0.0937
PERMANENT DISTURBANCE	0.0128
TOTAL DISTURBANCE	0.1065

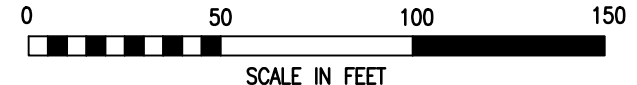
WETLAND W-T70-12005B	ACRE
TEMPORARY DISTURBANCE	0.0442
PERMANENT DISTURBANCE	0.0086
TOTAL DISTURBANCE	0.0528

GENERAL NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO M-0423 STATION 78+31 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 37' RT. OF M-0423 M.P. 1.48, ELEV. = 512.14' (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
- 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 WETLAND IMPACT
- TEMPORARY WETLAND 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
WETLAND CROSSING W-T70-12005A @ M-0423 M.P. 1.48
& WW-T70-12005B @ M-0423 M.P. 1.51
HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

Williams

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 07/06/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	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/M-0423-1.50-01	SHEET 1
							IWO: 1161503	10/5/2016	jibeast OF 1	

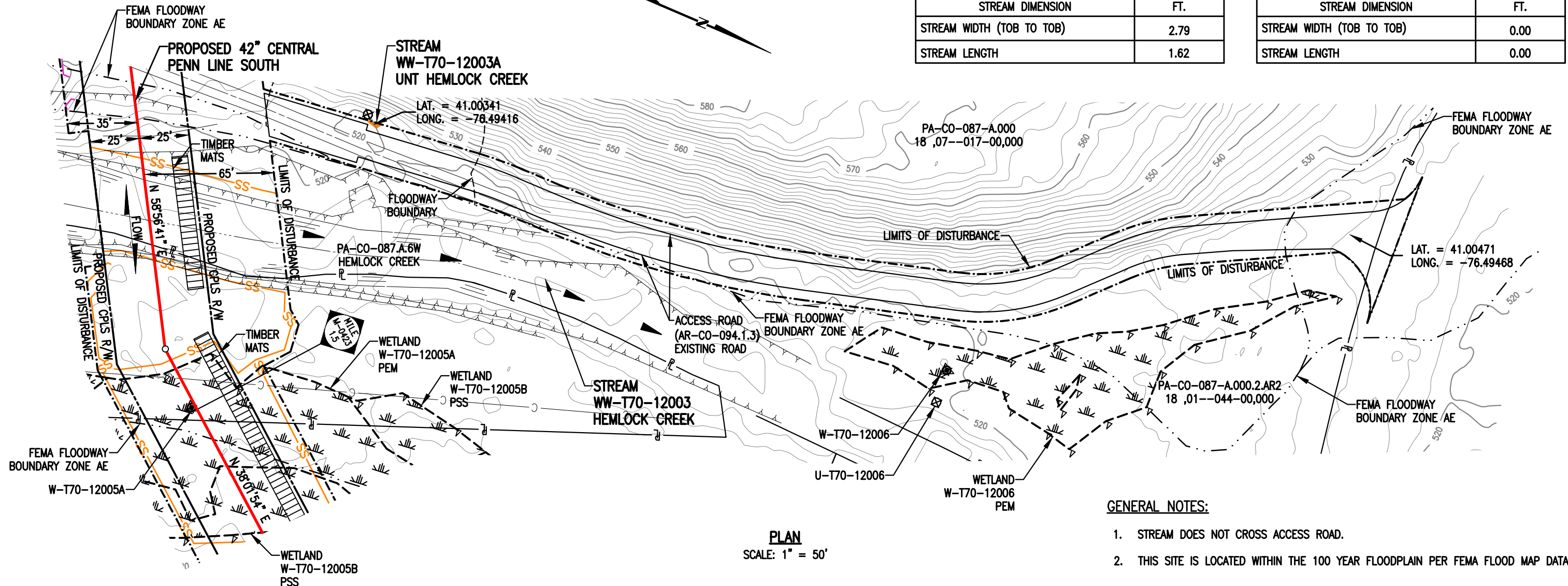
STREAM DISTURBANCE:

STREAM WW-T70-12003A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0003
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0003
TEMPORARY FLOODWAY DISTURBANCE	0.0570
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0570

STREAM WW-T70-12003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0471
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0471

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	2.79
STREAM LENGTH	1.62

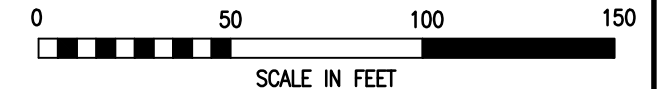
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00



PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM DOES NOT CROSS ACCESS ROAD.
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOODPLAIN PER FEMA FLOOD MAP DATA.



LEGEND

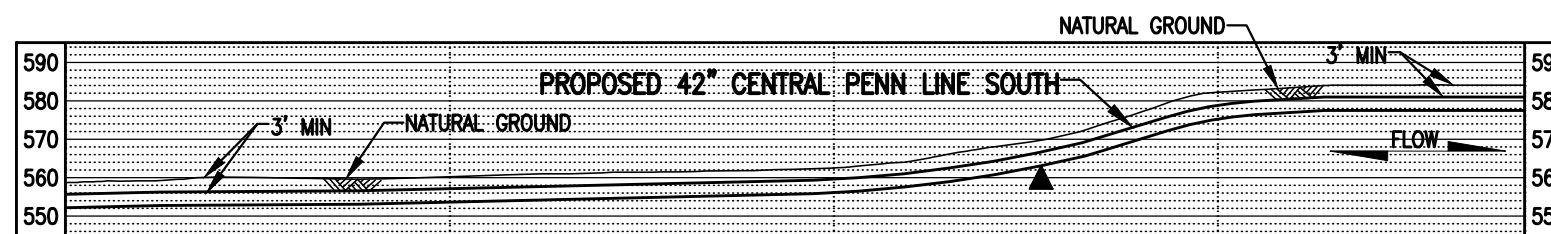
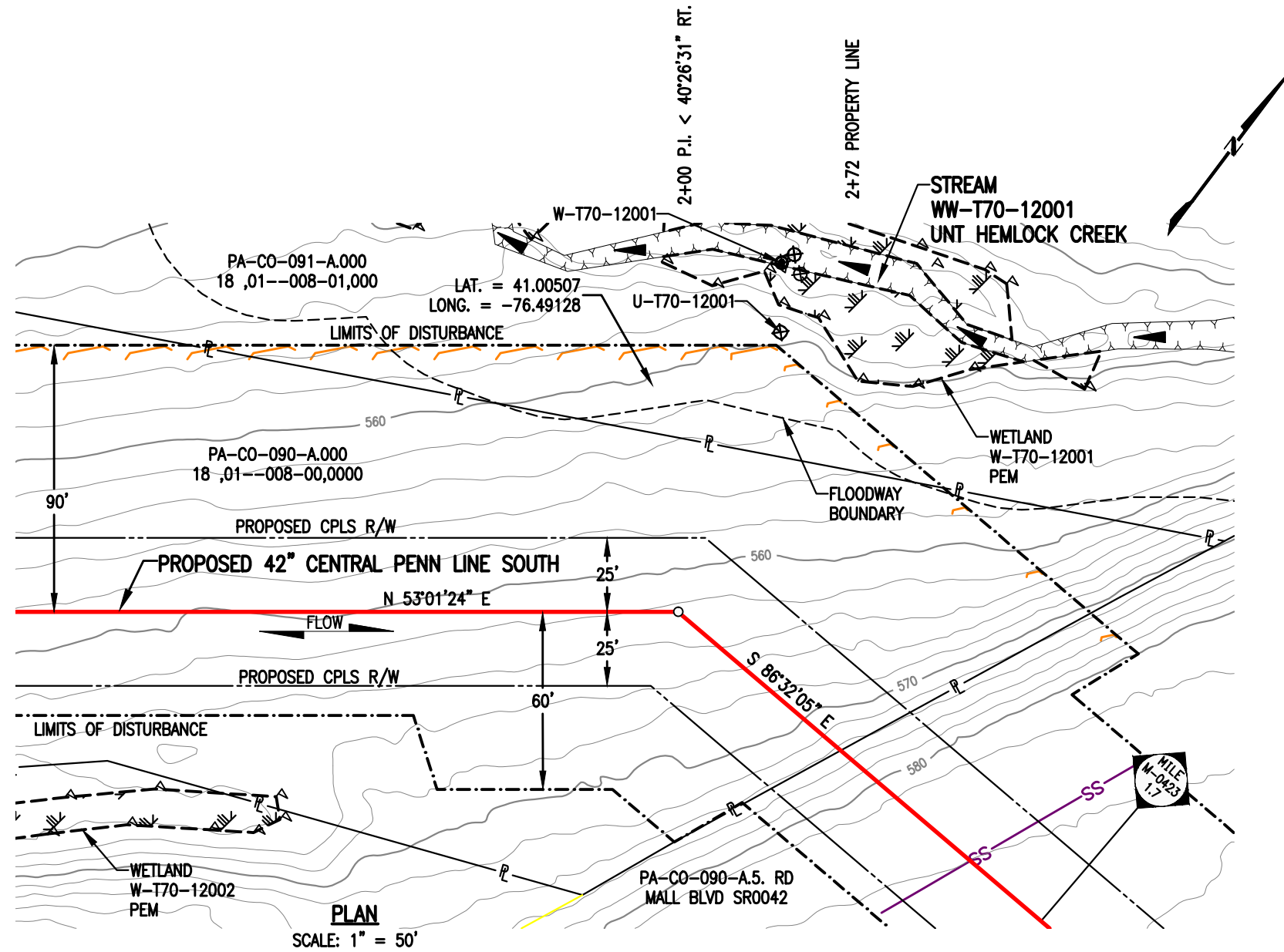
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- PROPOSED C/PLS R/W
- P — PROPERTY LINE
- X — FOREIGN PIPELINE
- ▨ WETLAND AREA
- ▶ STREAM FLOW
- P — EXISTING POWER LINE
- X — EXISTING FENCE

- ▴ 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
- 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 CROSSINGS WW-T70-12003A & M-0423 & WW-T70-12003 & M-0423 M.P. 1.47 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 07/19/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/19/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/20/16	DRAWING NUMBER: 24-1600-70-09-A/AR-CO-094.1.3-01 SHEET 1	
							W.O. NUMBER: 1161503	10/11/2016		OF 1



FLOODWAY DISTURBANCE:

STREAM WW-T70-12001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0733
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0733

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-0423 STATION 88+15 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. 577.47' LT. OF M-0423 M.P. 1.67, ELEV. = 903.89' (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		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

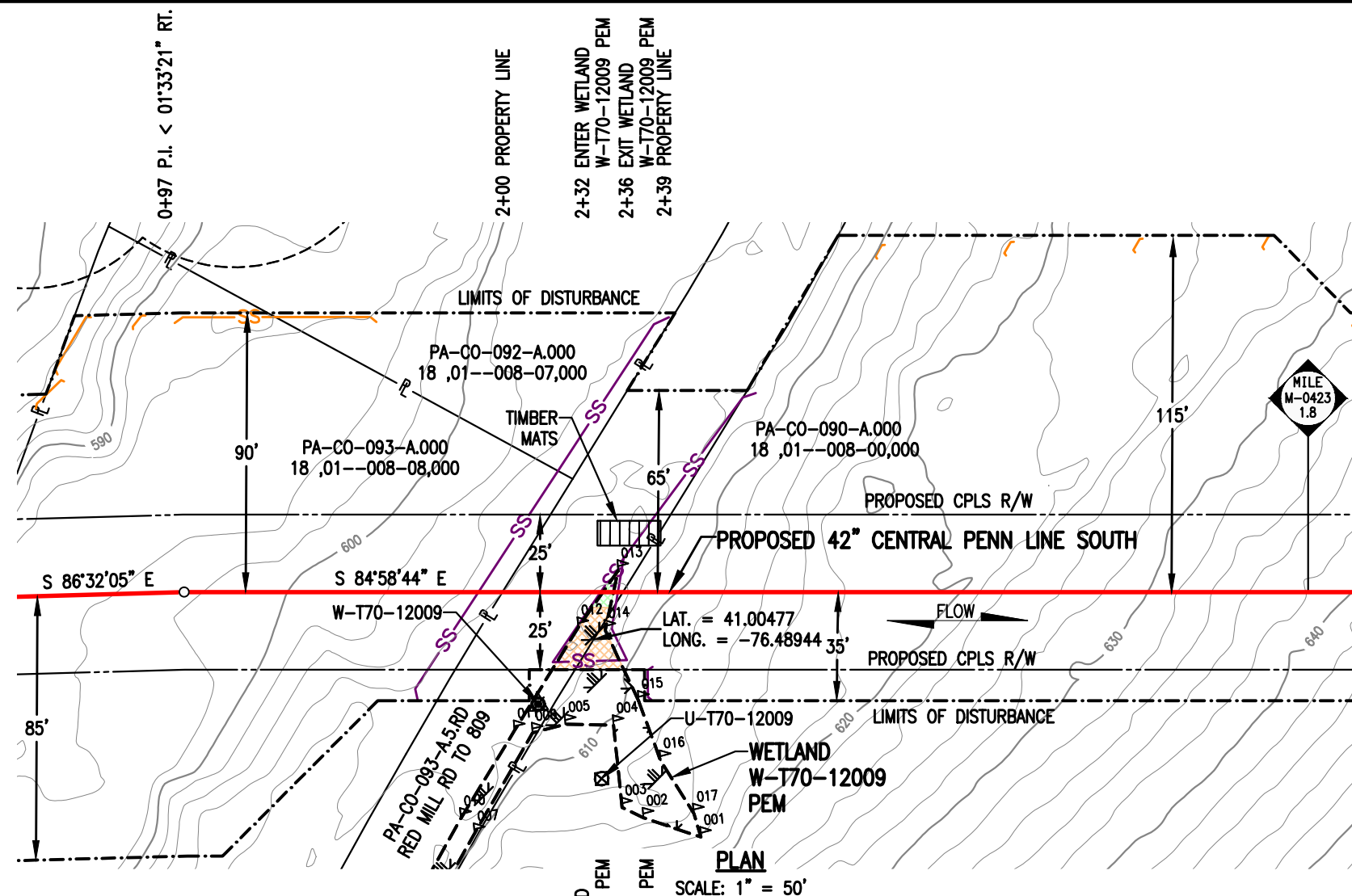
WOOD GROUP MUSTANG, INC.

DRAWING NO.		REFERENCE TITLE								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	10/25/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	MF	06/20/16		1" = 50'
							CLR	07/05/16		REVISION: 0
							MJH	07/06/16		
							1161503			

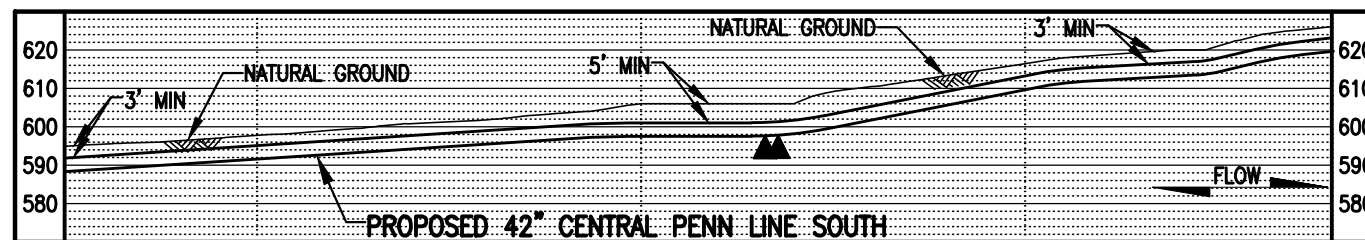
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
STREAM CROSSING WW-T70-12001
M-0423 M.P. 1.67
HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

Williams

DRAWING NUMBER: **24-1600-70-09-A/M-0423-1.67-01** SHEET 1 OF 1
11:28am 10/5/2016 jibeost



PLAN
SCALE: 1" = 50'



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

WETLAND DISTURBANCE:

WETLAND W-T70-12009	ACRE
TEMPORARY DISTURBANCE	0.0060
PERMANENT DISTURBANCE	0.0008
TOTAL DISTURBANCE	0.0068

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 2+00 SHOWN IS EQUAL TO M-0423 STATION 92+44 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

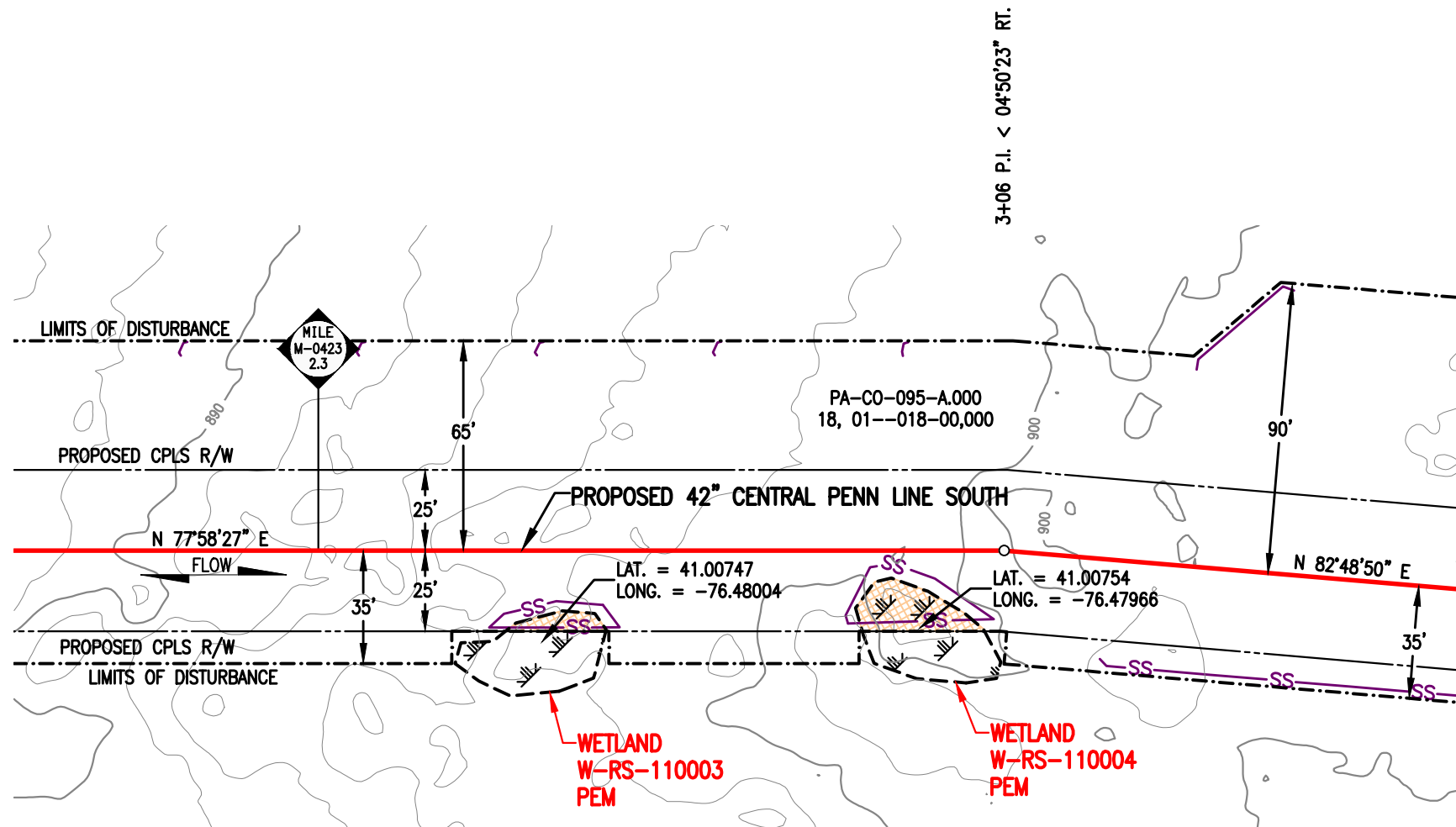
- T.B.M. 903.89' LT. OF M-0423 M.P. 1.76, ELEV. = 577.47' (NAVD88).



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-T70-12009 ● M-0423 M.P. 1.76 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MF	DATE: 05/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	MF	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/M-0423-1.76-01 SHEET 1	
							W.O. 1161503	10/21/2016	DRAWING NUMBER: 24-1600-70-20-A/M-0423-1.76-01 SHEET 1	

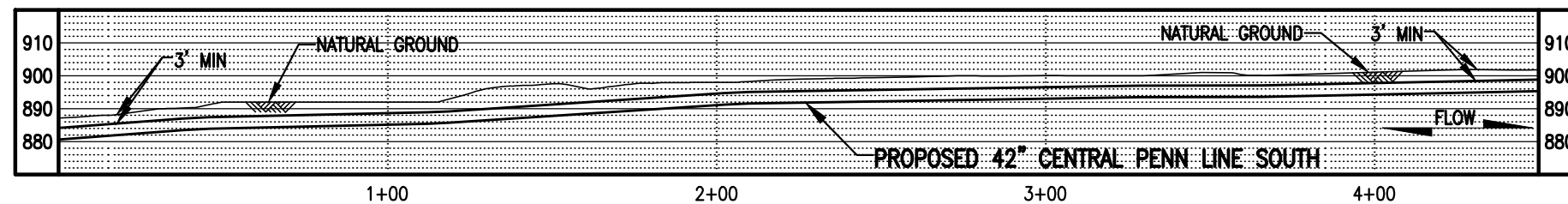


PLAN
SCALE: 1" = 50'

WETLAND DISTURBANCE:

WETLAND W-RS-110003	ACRE
TEMPORARY DISTURBANCE	0.0032
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0032

WETLAND W-RS-110004	ACRE
TEMPORARY DISTURBANCE	0.0098
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0098



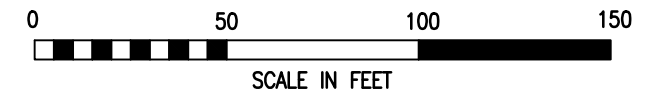
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

NOTES:

1. THIS DRAWING CONTAINS REMOTE SENSING DATA.
2. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
3. STATION 1+00 SHOWN IS EQUAL TO M-0423 STATION 121+96 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. 187.59' LT. OF M-0423 M.P. 2.31, ELEV. = 759.60' (NAVD88).



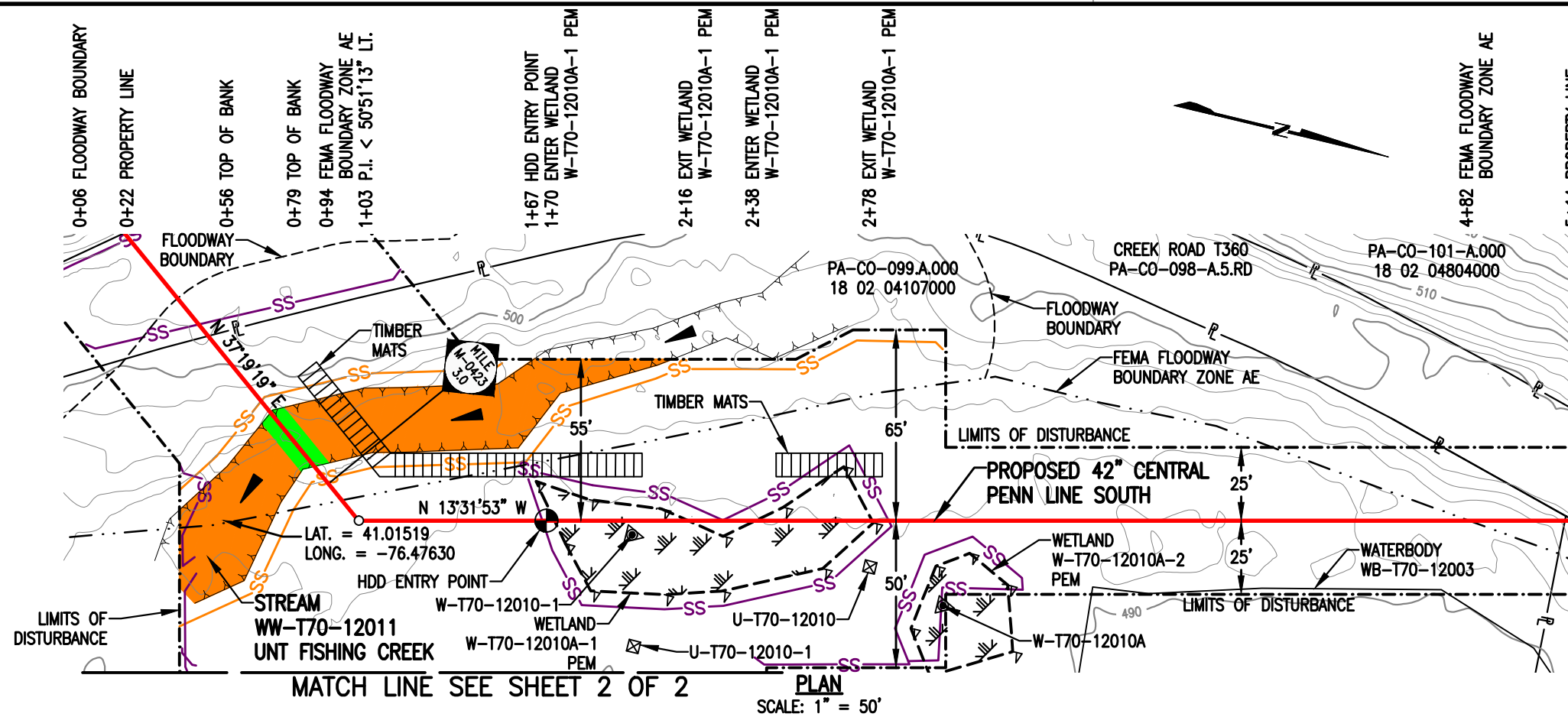
LEGEND

	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	

DRAWING NO.		REFERENCE TITLE								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MF	DATE: 08/09/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	MF	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 08/10/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 08/10/16	DRAWING NUMBER: 24-1600-70-20-A/M-0423-2.31-01	SHEET 1
							WO: 1161503		9:54am 10/25/2016 t3le	1

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-RS-110003 & W-RS-110004
 @ M-0423 M.P. 2.31
 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

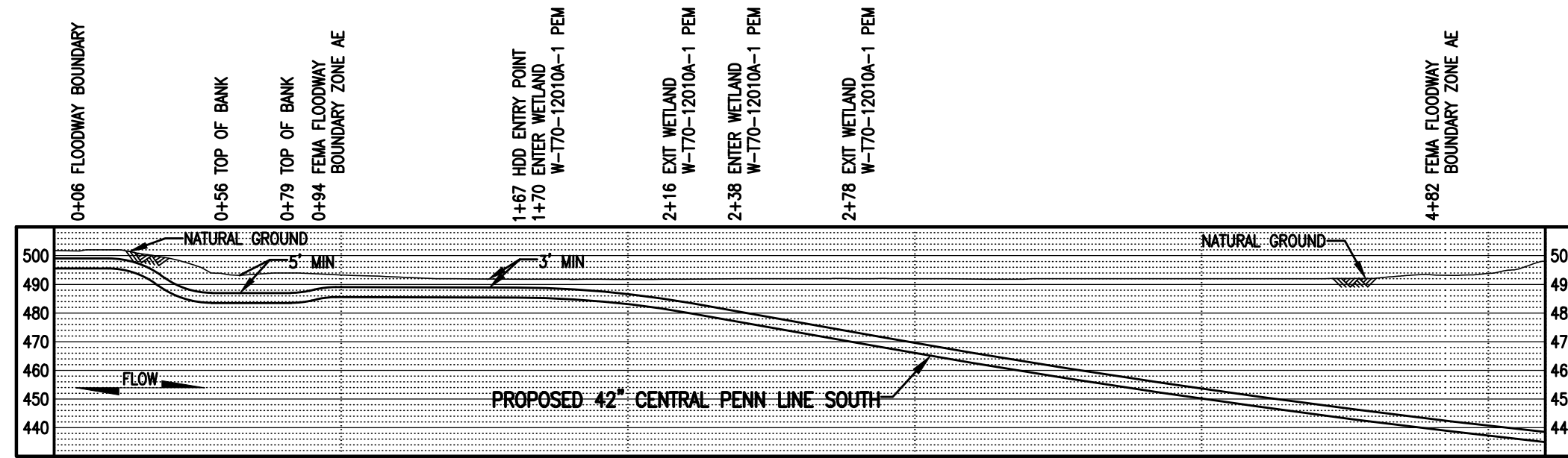




STREAM DISTURBANCE:

STREAM WW-T70-12011	ACRE
TEMPORARY STREAM DISTURBANCE	0.0799
PERMANENT STREAM DISTURBANCE	0.0053
TOTAL STREAM DISTURBANCE	0.0852
TEMPORARY FLOODWAY DISTURBANCE	0.2063
PERMANENT FLOODWAY DISTURBANCE	0.0150
TOTAL FLOODWAY DISTURBANCE	0.2213

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	23.60
STREAM LENGTH	165.14



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-0423 STATION 158+53 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 12' RT. OF M-0423 M.P. 3.01, ELEV. = 491.36' (NAVD88).



LEGEND

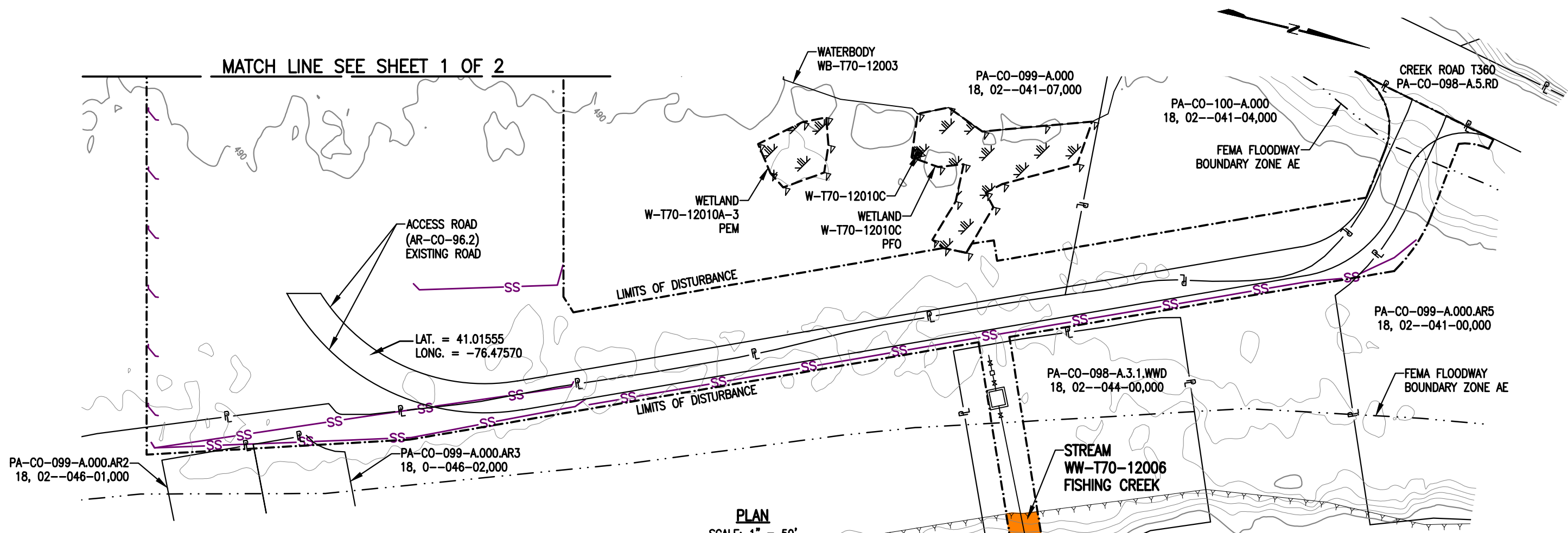
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/25/16	CM	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 CROSSINGS WW-T70-12011 @ M-0423 M.P. 3.00
& WW-T70-12006 @ M-0423 M.P. 3.07
HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

Williams

DRAWN BY: CM	DATE: 07/25/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/26/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-3.00-01	SHEET 1
IWO: 1161503		10/21/2016	OF 2



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE FOR HYDROSTATIC TEST WATER WITHDRAWAL EQUIPMENT:

STREAM WW-T70-12006	ACRE
TEMPORARY STREAM DISTURBANCE	0.0258
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0258
TEMPORARY FLOODWAY DISTURBANCE	0.0290
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0290

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	24.96
STREAM LENGTH	76.83

STREAM DISTURBANCE FOR ACCESS ROAD AR-CO-96.2:

STREAM WW-T70-12006	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.6912
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.6912

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

GENERAL NOTE:

- NO IN STREAM DISTURBANCE WILL OCCUR, AS HYDROSTATIC EQUIPMENT WILL BE PLACED ON STREAM BED.



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		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

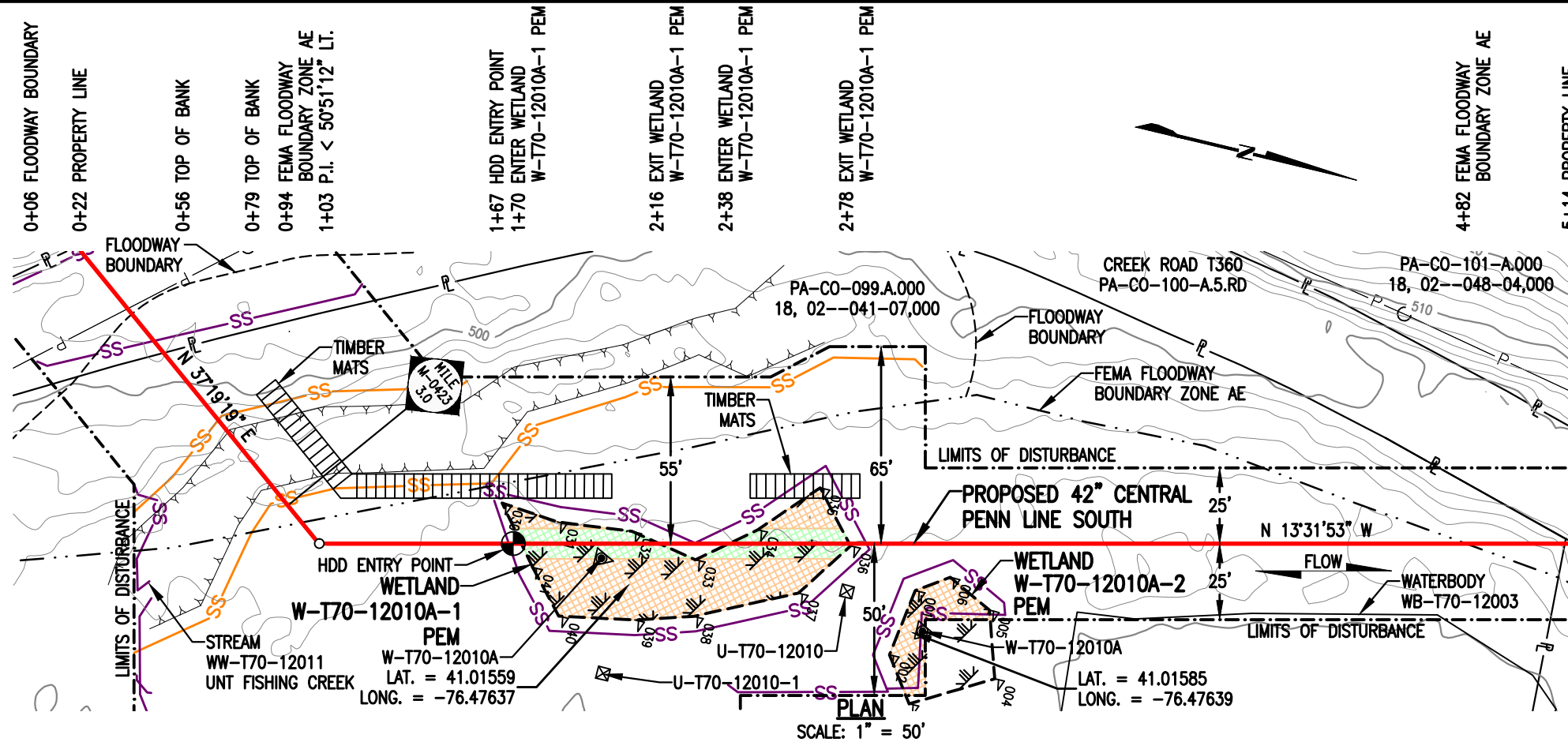
WOOD GROUP MUSTANG, INC.

DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/25/16	CM	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 CROSSINGS WW-T70-12011 @ M-0423 M.P. 3.00
& WW-T70-12006 @ M-0423 M.P. 3.07
HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

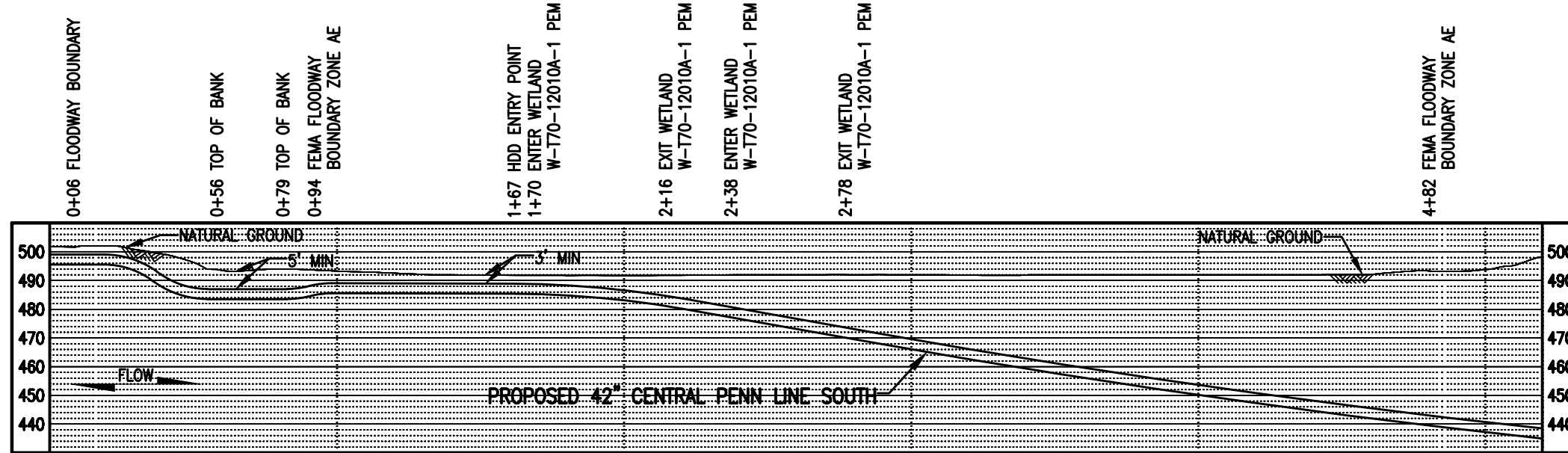
Williams

DRAWN BY: CM	DATE: 07/25/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/26/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-3.00-01	SHEET 2
WC: 1161503	10/27/2016	9:59am	OF 2



WETLAND DISTURBANCE:

WETLAND W-T70-12010A-1 / W-T70-12010A-2	ACRE
TEMPORARY DISTURBANCE	0.0535
PERMANENT DISTURBANCE	0.0192
TOTAL DISTURBANCE	0.0727



- GENERAL NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 1+00 SHOWN IS EQUAL TO M-0423 STATION 158+53 ON THE EROSION AND SEDIMENT CONTROL PLAN.

- SURVEY NOTES:**
- T.B.M. SURVEY CONTROL POINT - 12' RT. OF M-0423 M.P. 3.01, ELEV. = 491.36' (NAVD88).

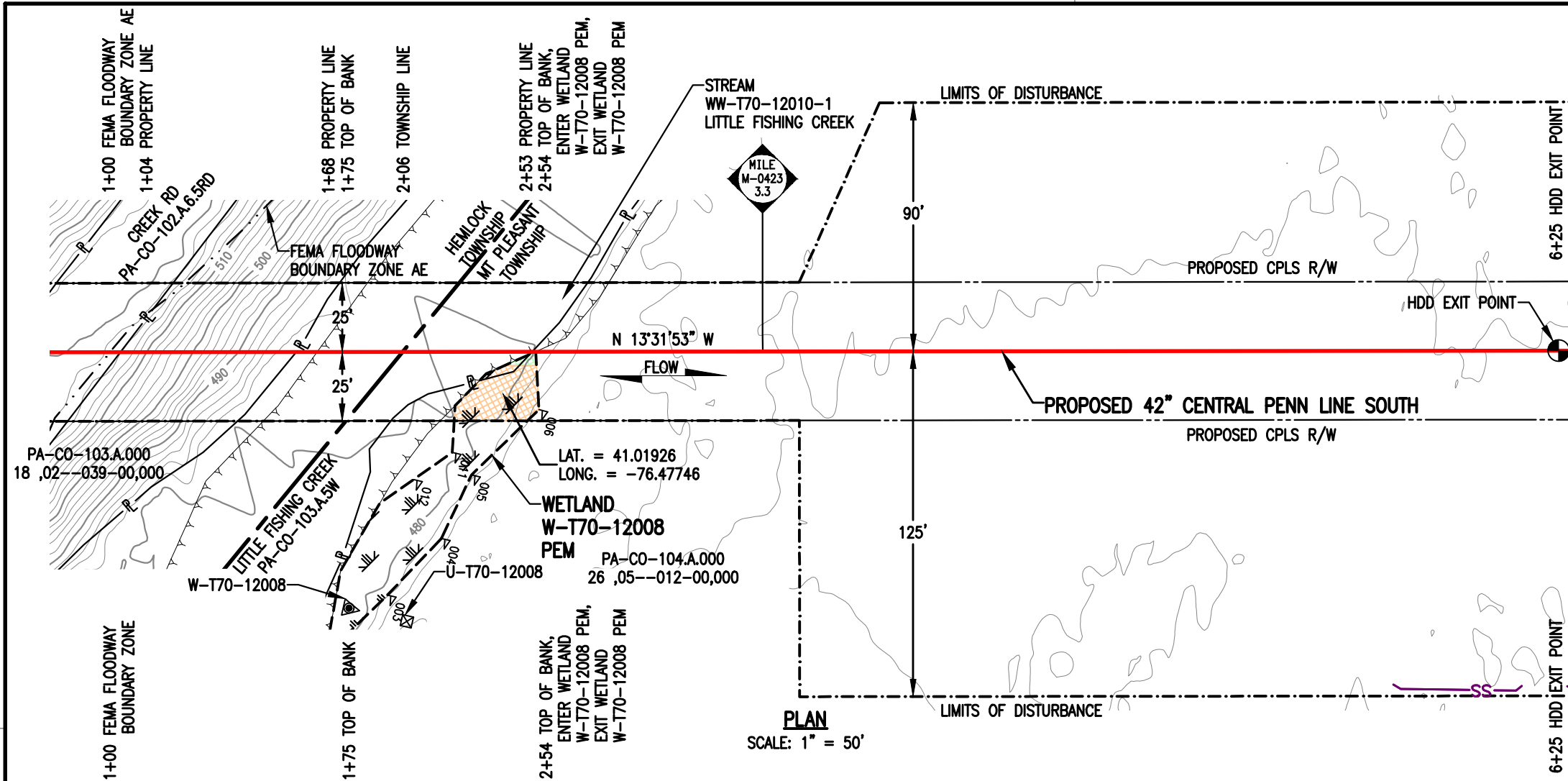


LEGEND

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	PERMANENT WETLAND IMPACT
EXISTING FENCE	FEMA FLOODWAY BOUNDARY	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 CROSSINGS W-T70-12010A-1/
W-T70-12010A-2 @ M-0423 M.P. 3.02
HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

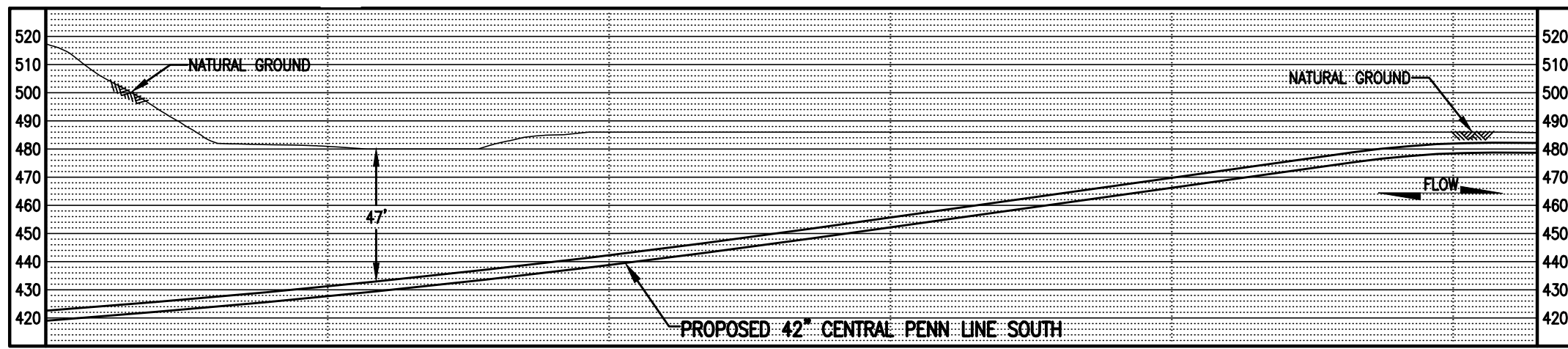
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	10/25/16	CM	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CM	07/25/16		1" = 50'
							CLR	07/26/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							MJH	06/08/15	DRAWING NUMBER: 24-1600-70-20-A/M-0423-3.02-01	SHEET 1
							1161503		10/21/2016	1



WETLAND DISTURBANCE:

WETLAND W-T70-12008	ACRE
TEMPORARY DISTURBANCE	0.0111
PERMANENT DISTURBANCE	0.0007
TOTAL DISTURBANCE	0.0118

PLAN
SCALE: 1" = 50'



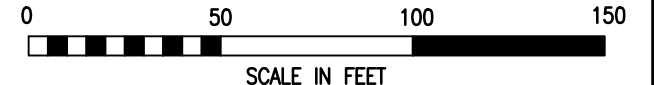
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

GENERAL NOTES:

1. WETLAND CROSSING METHOD FOR W-T70-12008 SHALL BE HDD. NO PHYSICAL SURFACE IMPACT ARE PROPOSED TO THIS FEATURE DUE TO HDD CROSSING MEATHOD.
2. STATION 1+00 SHOWN IS EQUAL TO M-0423 STATION 171+87 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

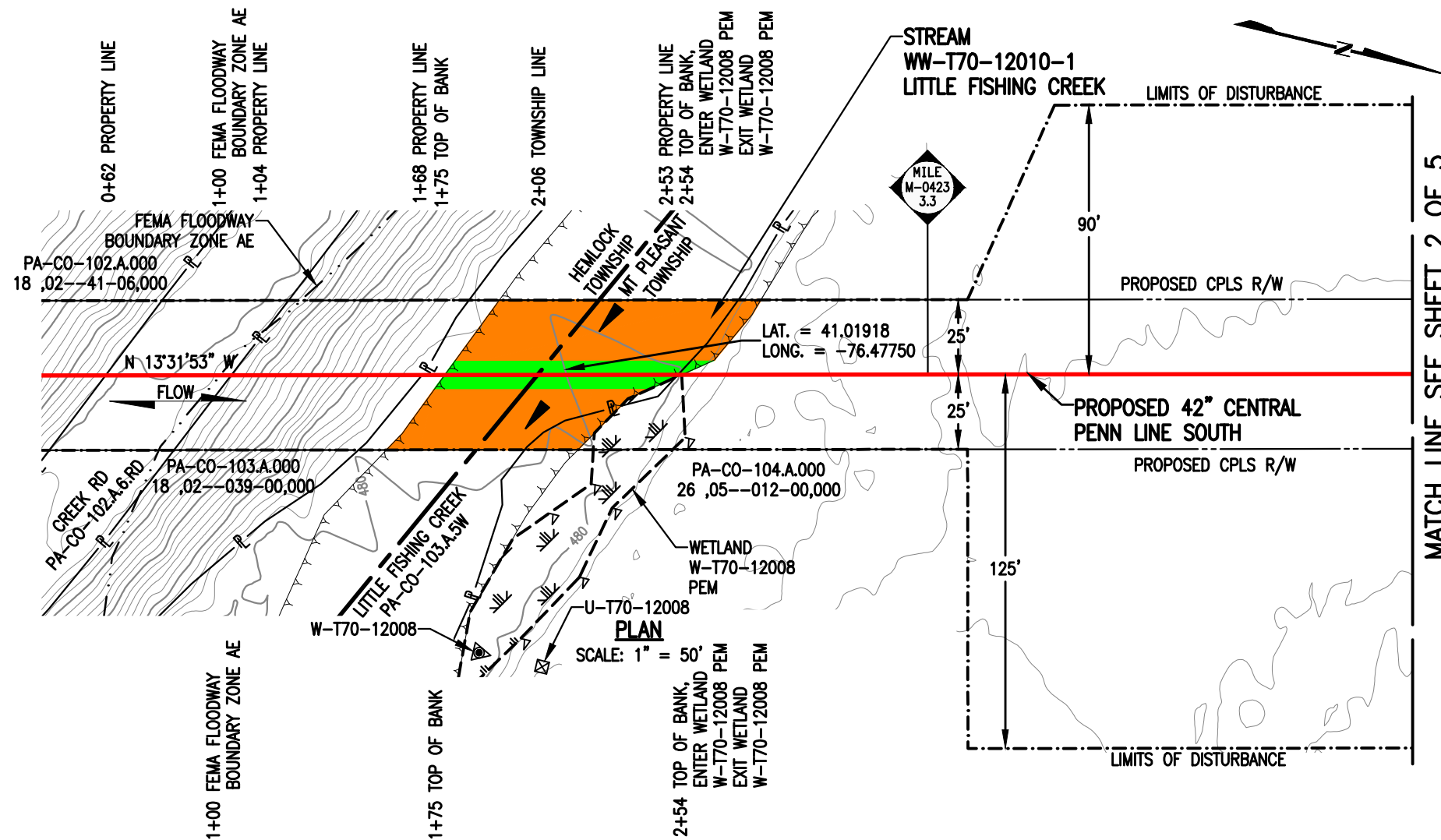
1. T.B.M. IRON ROD - 96' RT. OF M-0423 M.P. 3.16, ELEV. = 513.13' (NAVD88).



LEGEND

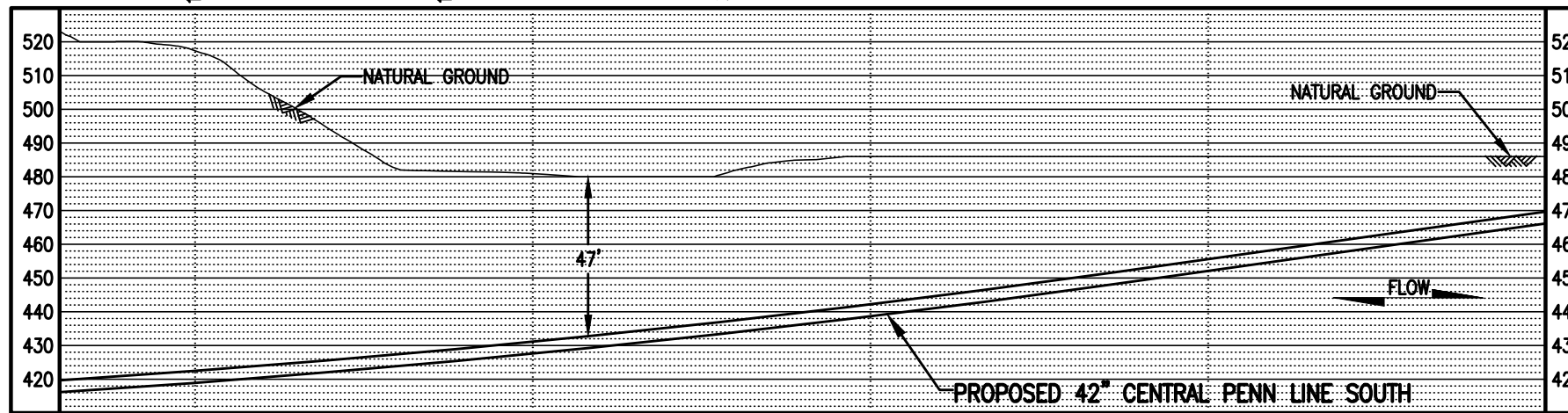
PROPOSED 42" CENTRAL PENN LINE SOUTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLS R/W	WELL POINT	32" SEDIMENT BARRIER
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-T70-12008 © M-0423 M.P. 3.28 HEMLOCK & MT PLEASANT TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: JB		DATE: 07/26/16	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: CLR		DATE: 07/26/16	ISSUED FOR CONSTRUCTION:	REVISION: 0	
APPROVED BY: MJH		DATE: 07/26/16	DRAWING NUMBER: 24-1600-70-20-A/M-0423-3.28-01	SHEET 1	
W.O. NUMBER: 1161503		10/6/2016	<small>7:46am jibeast</small> <small>K:\103643-CPLS\Mapping\Wetlands\CPLS_PAN\Revised 105\24-1600-70-20-A_M-0423-3.28-01.dwg</small>		



STREAM DISTURBANCE:

STREAM WW-T70-12010-1	ACRE
TEMPORARY STREAM DISTURBANCE	0.0703
PERMANENT STREAM DISTURBANCE	0.0182
TOTAL STREAM DISTURBANCE	0.0885
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	79.09
STREAM LENGTH	65.22



GENERAL NOTES:

1. STREAM CROSSING METHOD FOR STREAM WW-T70-12010-1 SHALL BE HDD. STREAM CROSSING METHOD FOR STREAM WW-T70-12010 SHALL BE DAM AND PUMP (DPX).
2. NO PHYSICAL SURFACE IMPACT ARE PROPOSED TO STREAM WW-T70-12010-1 DUE TO HDD CROSSING METHOD.
3. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
4. STATION 1+00 SHOWN IS EQUAL TO M-0423 STATION 171+87 ON THE EROSION AND SEDIMENT CONTROL PLAN.
5. FLOODWAY IMPACTS FOR STREAM WW-T70-12010-1 ARE INCLUDED IN FLOODWAY IMPACT OF STREAMS WW-T70-12006 ON DWG. 24-1600-70-09-A/M-0423-3.00-01.

SURVEY NOTES:

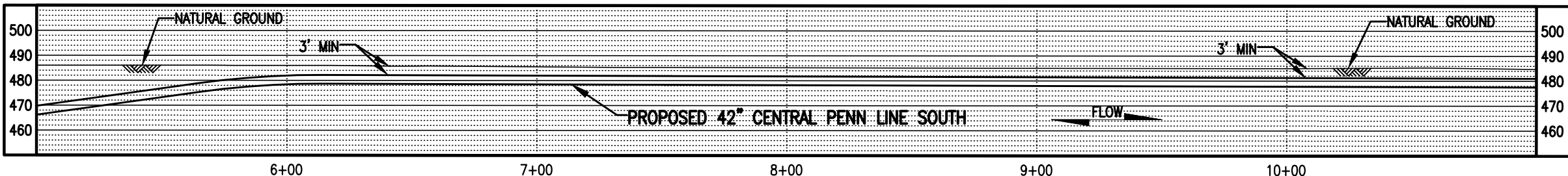
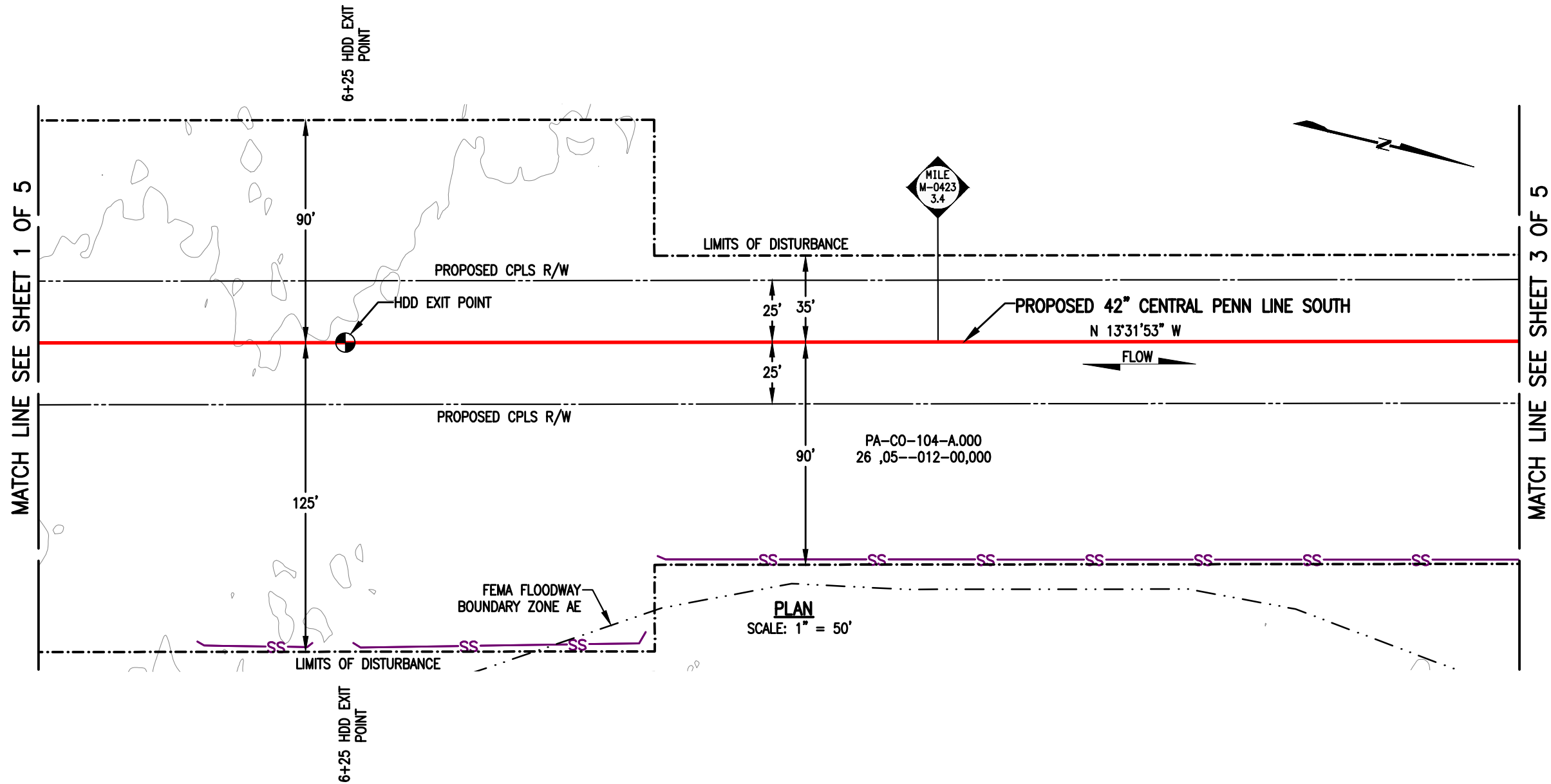
1. T.B.M. IRON ROD - 96' RT. OF M-0423 M.P. 3.16, ELEV. = 513.13' (NAVD88).



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-T70-12010-1 @ M-0423 M.P. 3.28, WW-T70-12006 @ M-0423 M.P. 3.50 & WW-T70-12010 @ M-0423 M.P. 3.58 HEMLOCK & MT PLEASANT TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 07/22/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/22/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/22/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-3.28-01	SHEET 1
							WO: 1161503		945m K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_M-0423-3.28-01.dwg	OF 5



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
- 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

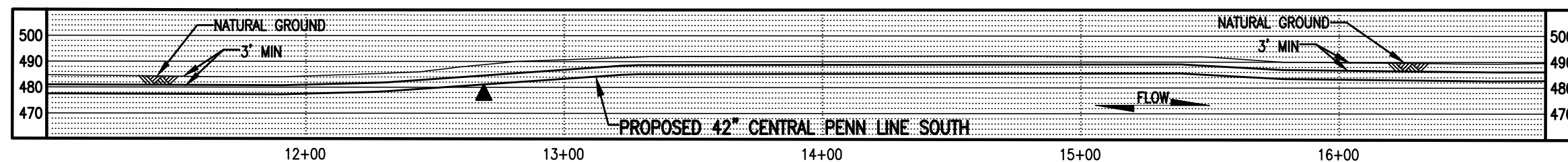
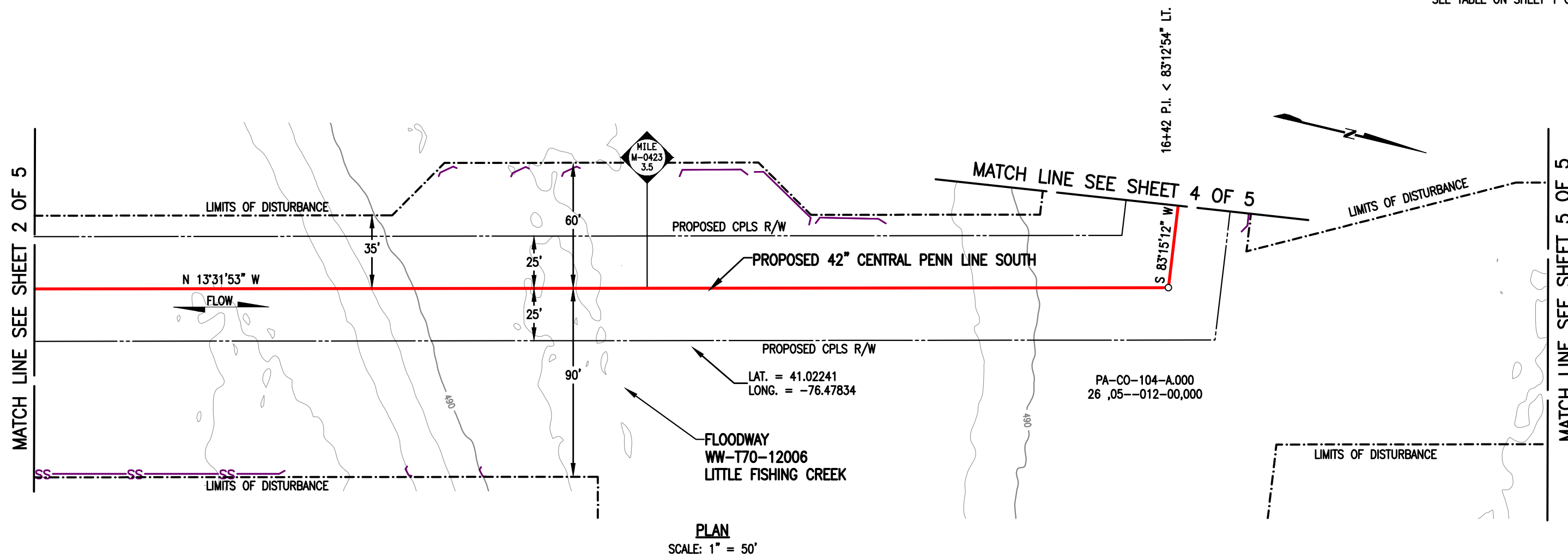


DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCRoACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
STREAM CROSSINGS WW-T70-12010-1 @ M-0423 M.P. 3.28,
WW-T70-12006 @ M-0423 M.P. 3.50 & WW-T70-12010 @ M-0423 M.P. 3.58
HEMLOCK & MT PLEASANT TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA

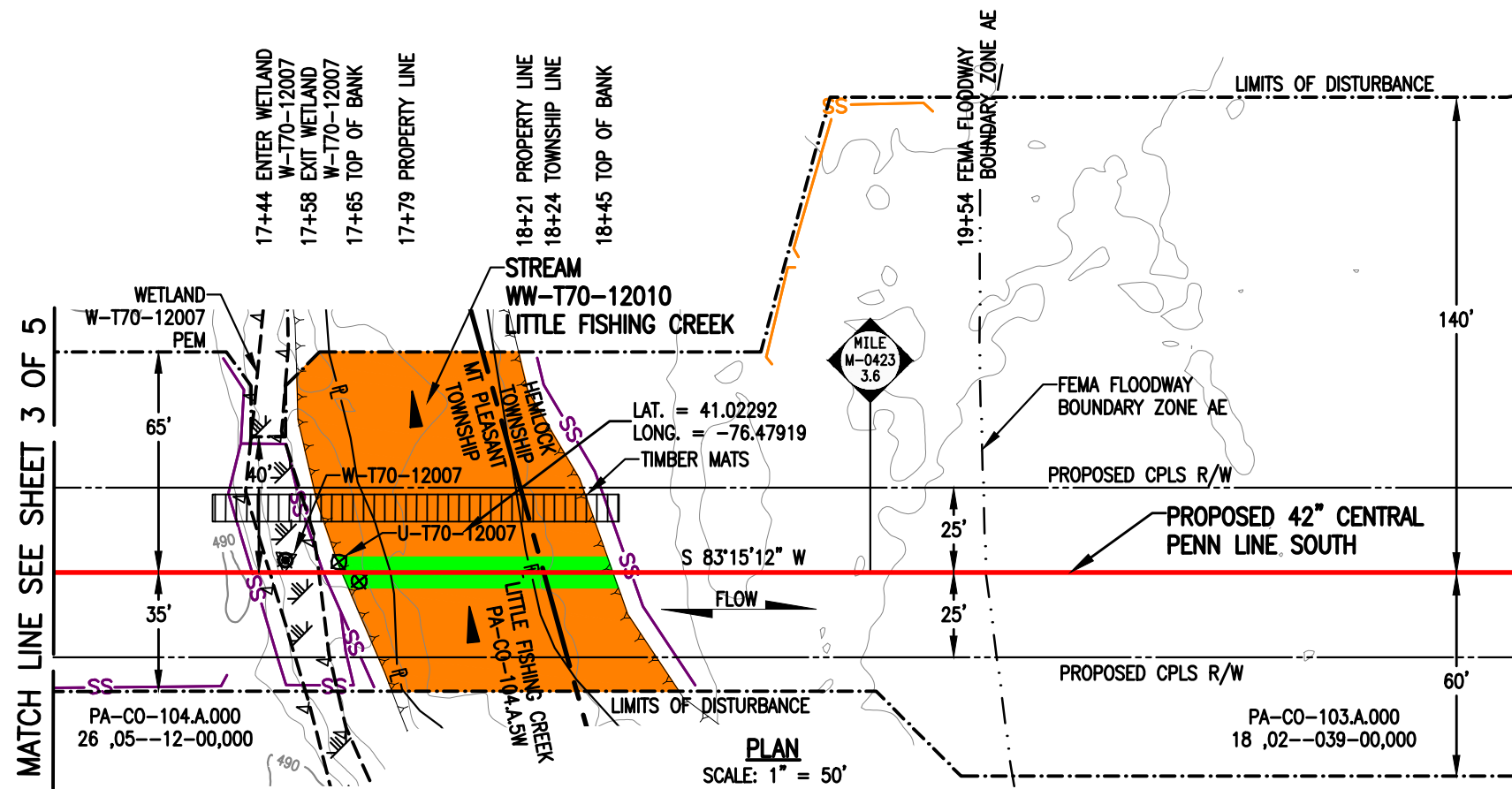
Williams

DRAWN BY: JB	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: 07/22/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-3.28-01	SHEET 2
WO: 1161503		10/20/2016 t3le	OF 5



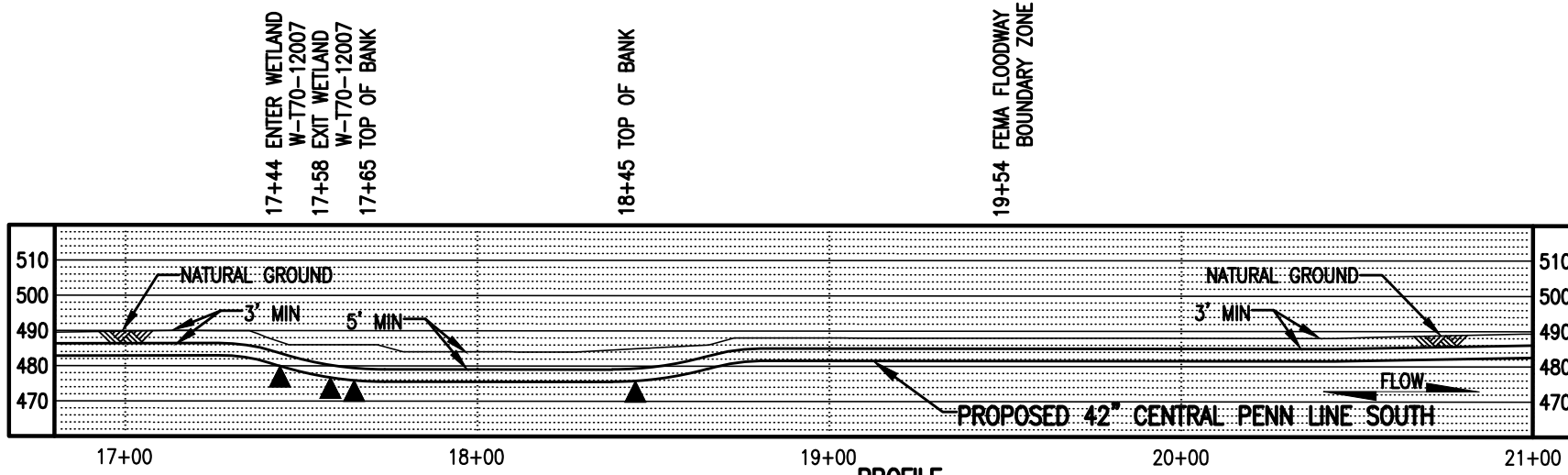
LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		WETLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND 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		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-T70-12010-1 @ M-0423 M.P. 3.28,						
				WW-T70-12006 @ M-0423 M.P. 3.50 & WW-T70-12010 @ M-0423 M.P. 3.58						
				HEMLOCK & MT PLEASANT TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 07/26/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/26/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/27/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-3.28-01	SHEET 3
							WO: 1161503		7:56am 10/11/2016 jibeast	OF 5



STREAM DISTURBANCE:

STREAM WW-T70-12010	ACRE
TEMPORARY STREAM DISTURBANCE	0.1583
PERMANENT STREAM DISTURBANCE	0.0183
TOTAL STREAM DISTURBANCE	0.1766
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	79.85
STREAM LENGTH	107.36



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

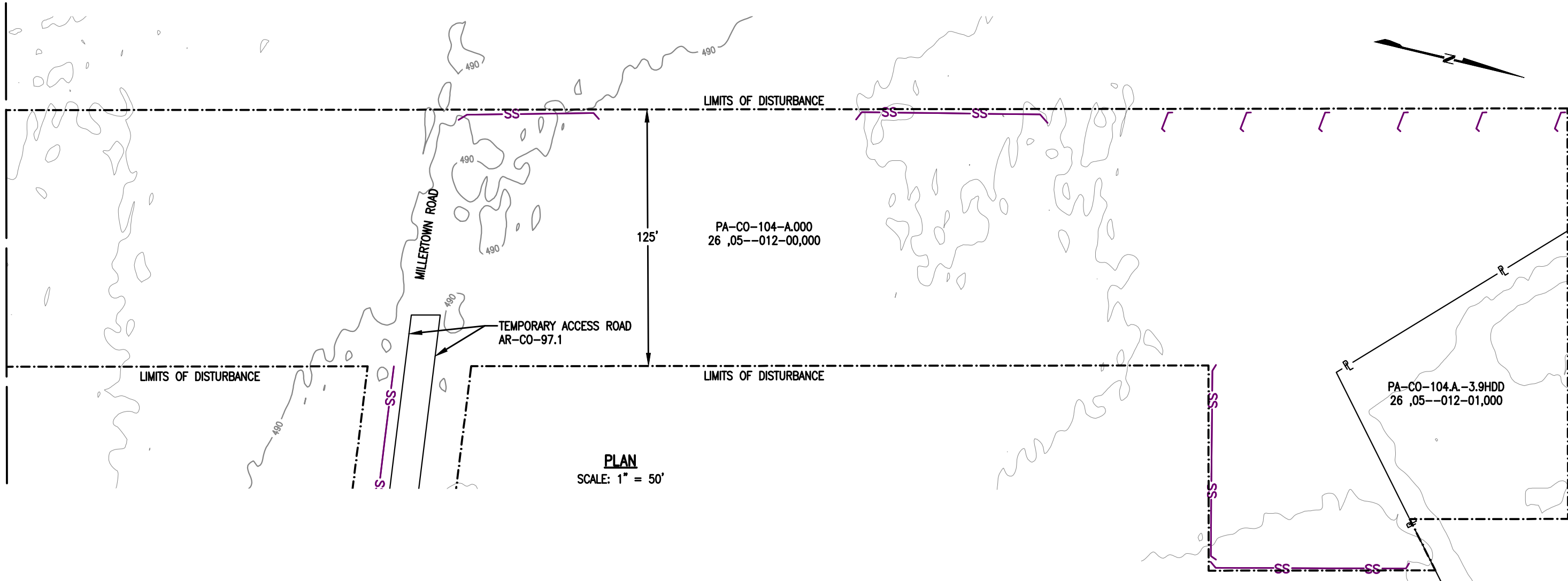
WOOD GROUP MUSTANG, INC.

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-T70-12010-1 @ M-0423 M.P. 3.28,
WW-T70-12006 @ M-0423 M.P. 3.50 & WW-T70-12010 @ M-0423 M.P. 3.58
HEMLOCK & MT PLEASANT TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA

Williams

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	JB	07/22/16		1" = 50'
							CLR	07/22/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							MJH	07/22/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-3.28-01	SHEET 4
							1161503		7:59am 10/11/2016 jibeast	OF 5

MATCH LINE SEE SHEET 3 OF 5



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
			PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/25/16	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 CROSSINGS WW-T70-12010-1 @ M-0423 M.P. 3.28,
WW-T70-12006 @ M-0423 M.P. 3.50 & WW-T70-12010 @ M-0423 M.P. 3.58
HEMLOCK & MT PLEASANT TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA

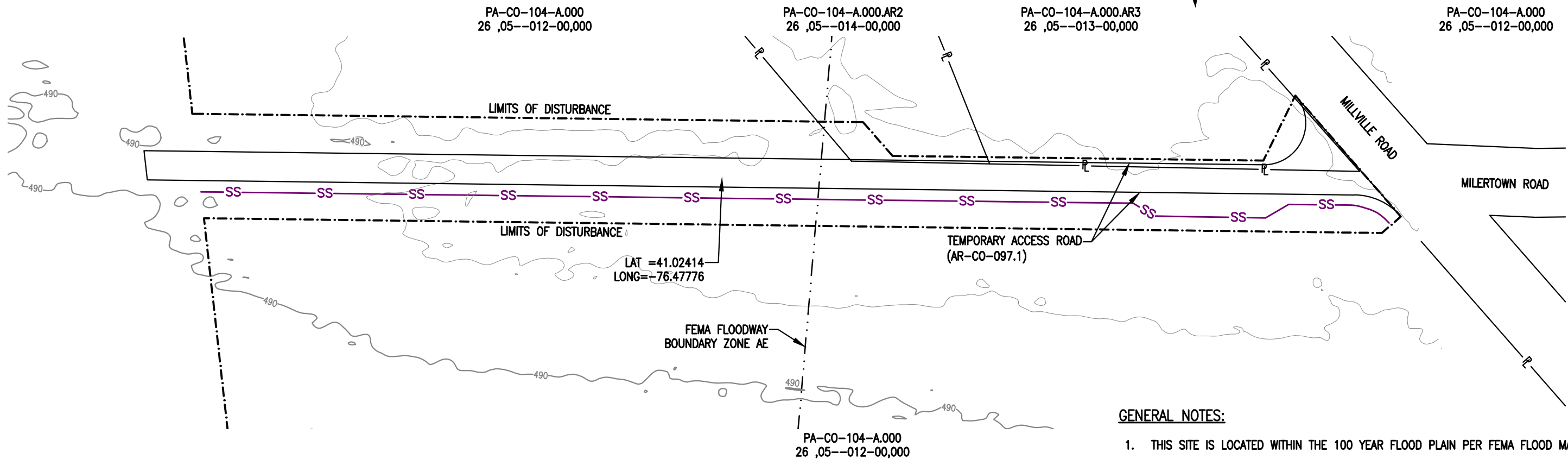
Williams

DRAWN BY: JB	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: 07/22/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-3.28-01	SHEET 5
WO: 1161503			OF 5

STREAM DISTURBANCE:

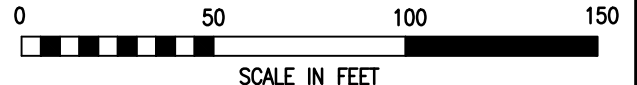
STREAM WW-T70-12006	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.6069
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.6069

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



GENERAL NOTES:

- THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.



LEGEND

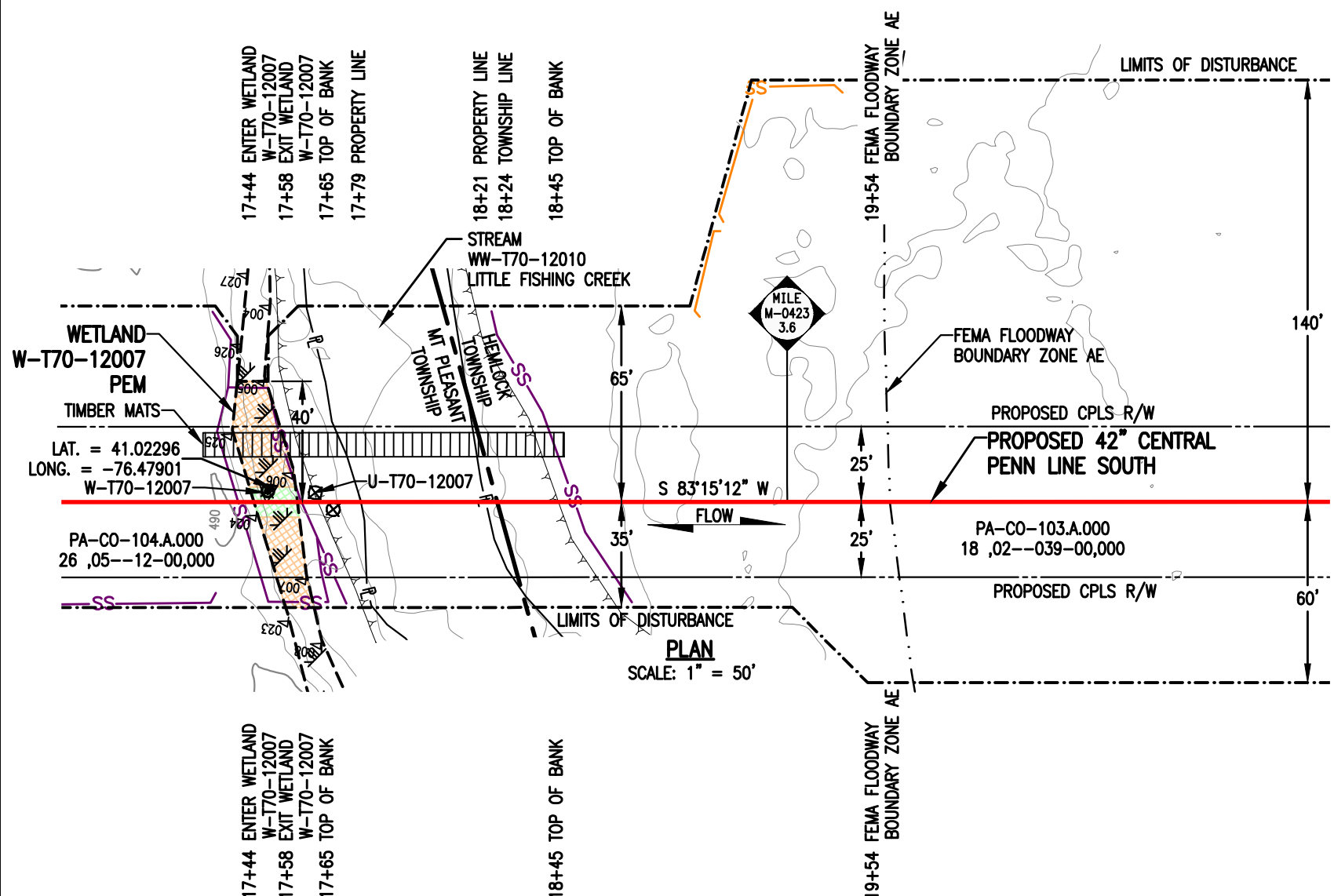
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - LIMITS OF DISTURBANCE
- - - - PROPOSED CPLS R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- ||||| WETLAND AREA
- ▶ STREAM FLOW
- P EXISTING POWER LINE
- X EXISTING FENCE

WOOD GROUP MUSTANG, INC.

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

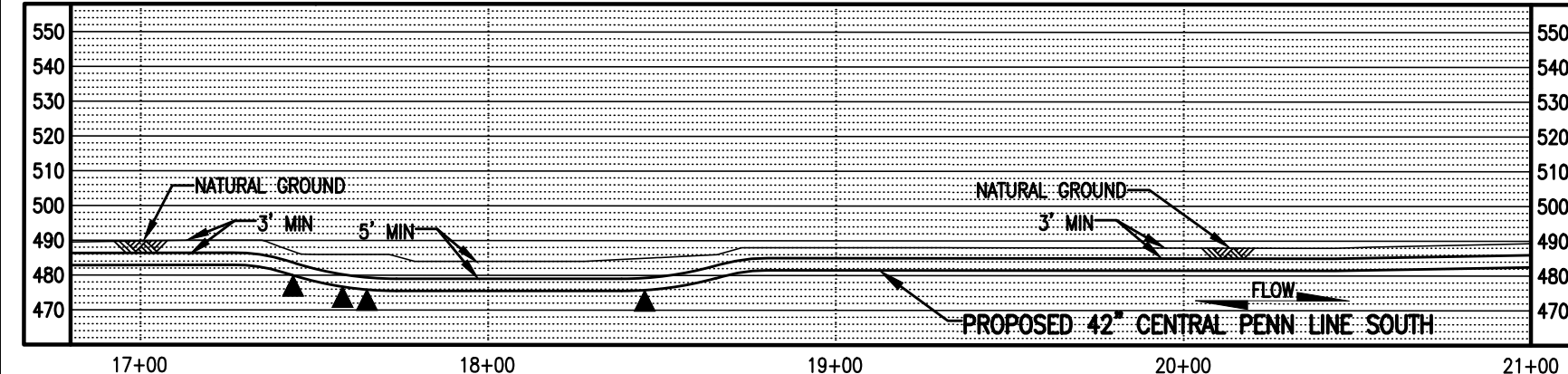
- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊠ UPLAND DATA POINT
- ☀ WELL POINT
- ▲ TRENCH PLUG
- ▭ WATERBODY
- ~ TREE LINE
- - - - FLOODWAY BOUNDARY
- - - - FEMA FLOODWAY BOUNDARY

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 STREAM CROSSING WW-T70-12006 ● M-0423 M.P. 3.07 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 07/06/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	LR	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-CO-097.1-01	SHEET 1
							WO: 1161503	10/5/2016	OF 1	



WETLAND DISTURBANCE:

WETLAND W-T70-12007	ACRE
TEMPORARY DISTURBANCE	0.0194
PERMANENT DISTURBANCE	0.0033
TOTAL DISTURBANCE	0.0227



- GENERAL NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
 - STATION 17+00 SHOWN IS EQUAL TO M-0423 STATION 187+87 ON THE EROSION AND SEDIMENT CONTROL PLAN.

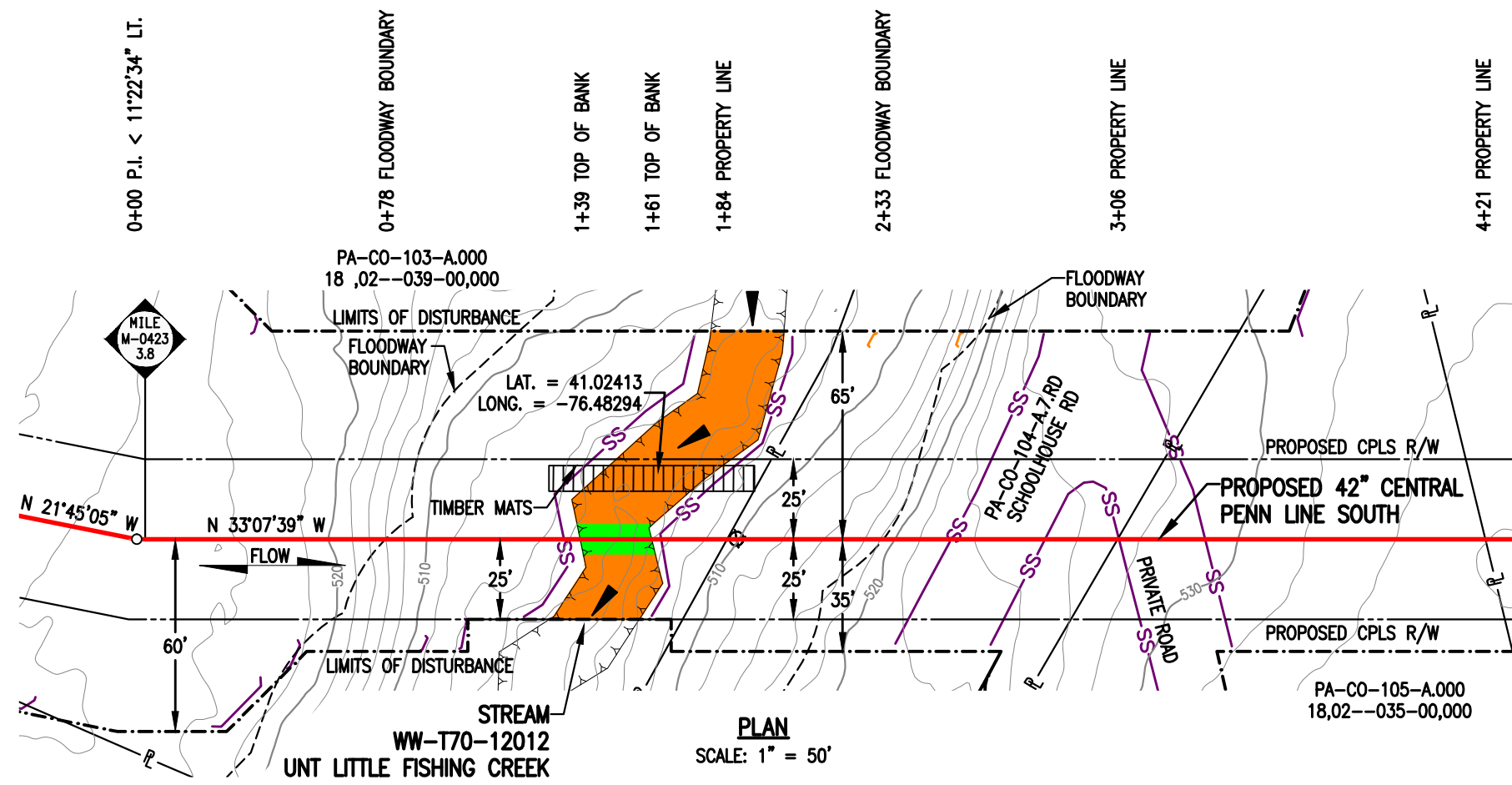


LEGEND

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	

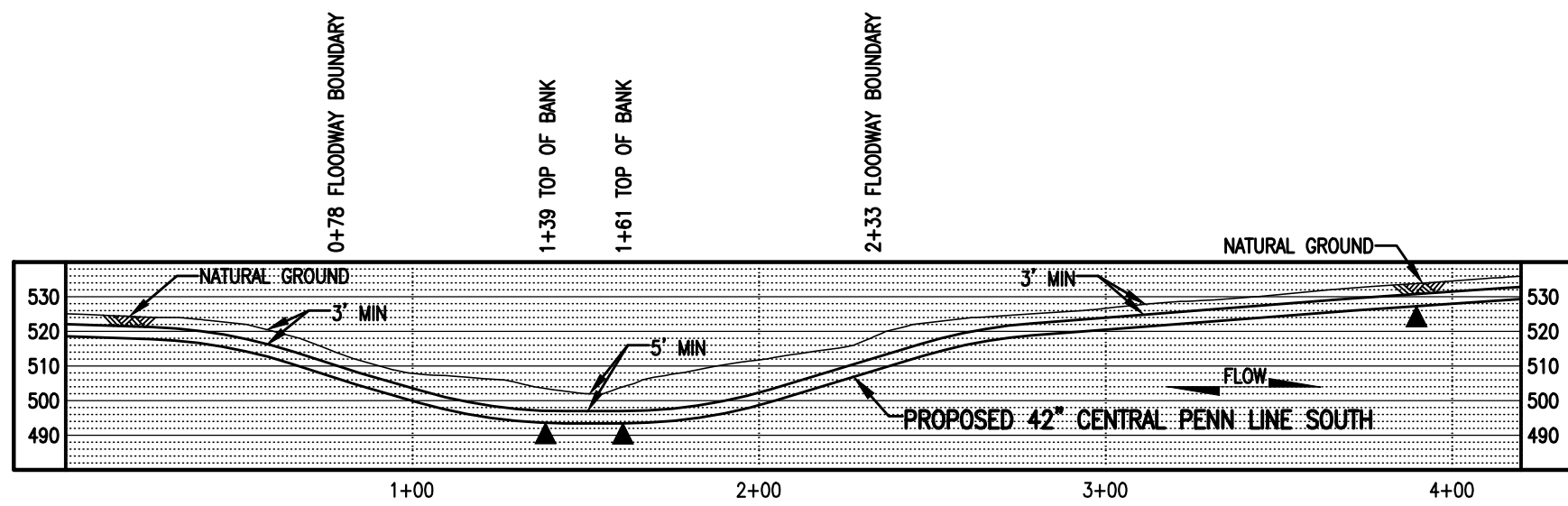
12" SEDIMENT BARRIER	PERMANENT WETLAND IMPACT
18" SEDIMENT BARRIER	TEMPORARY WETLAND IMPACT
24" SEDIMENT BARRIER	
32" SEDIMENT BARRIER	
TOP OF BANK	

DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH WETLAND CROSSING W-T70-12007 © M-0423 M.P. 3.57 MT PLEASANT & HEMLOCK TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 07/27/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/27/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/28/16	DRAWING NUMBER: 24-1600-70-20-A/M-0423-3.57-01	SHEET 1
							WC: 1161503	10/6/2016	jibeast	



STREAM DISTURBANCE:

STREAM WW-T70-12012	ACRE
TEMPORARY STREAM DISTURBANCE	0.0524
PERMANENT STREAM DISTURBANCE	0.0051
TOTAL STREAM DISTURBANCE	0.0575
TEMPORARY FLOODWAY DISTURBANCE	0.2480
PERMANENT FLOODWAY DISTURBANCE	0.0304
TOTAL FLOODWAY DISTURBANCE	0.2784
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	22.26
STREAM LENGTH	117.39



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 M-0423 STATION 201+61 ON THE EROSION AND SEDIMENT CONTROL PLAN.



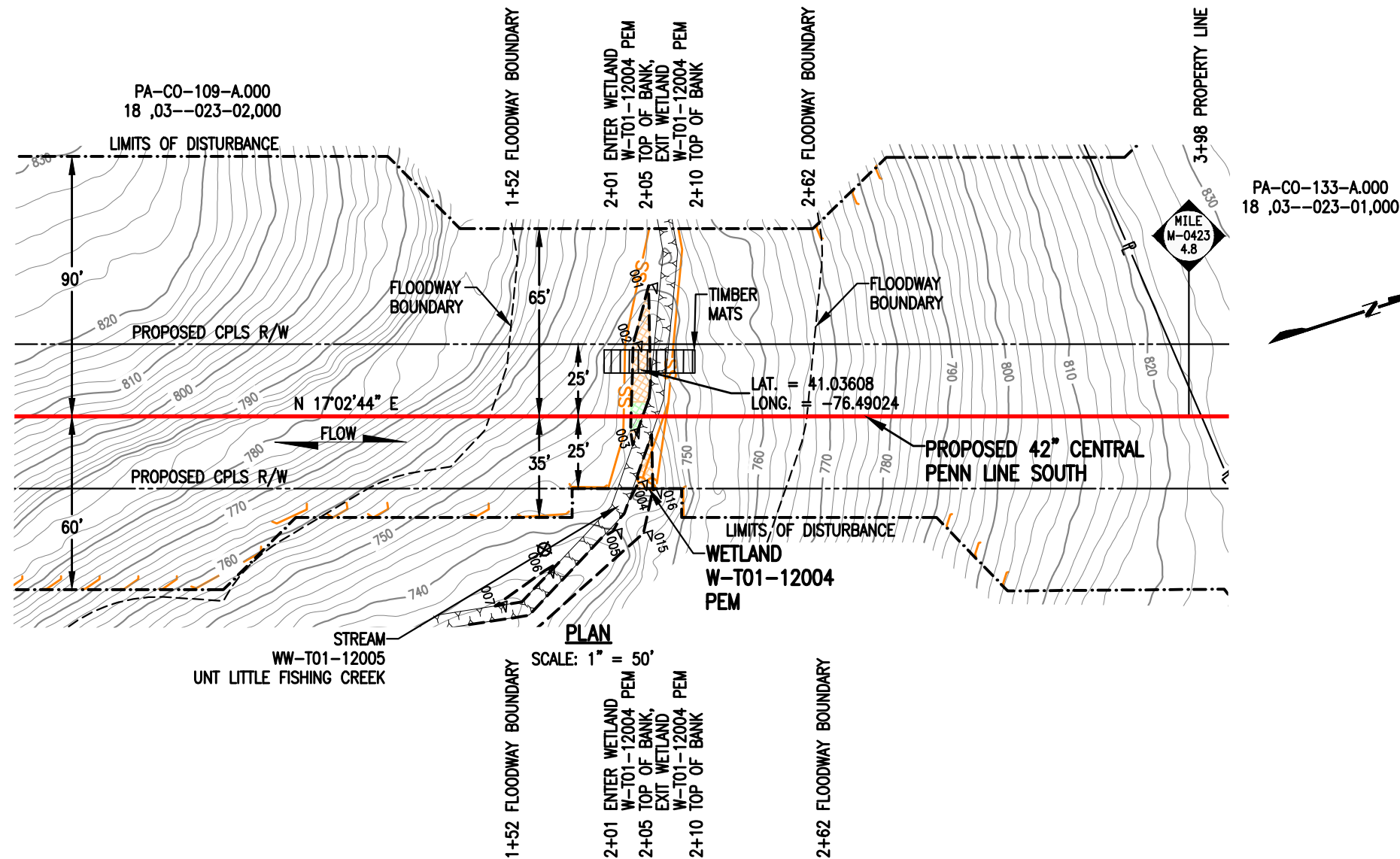
LEGEND

	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		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

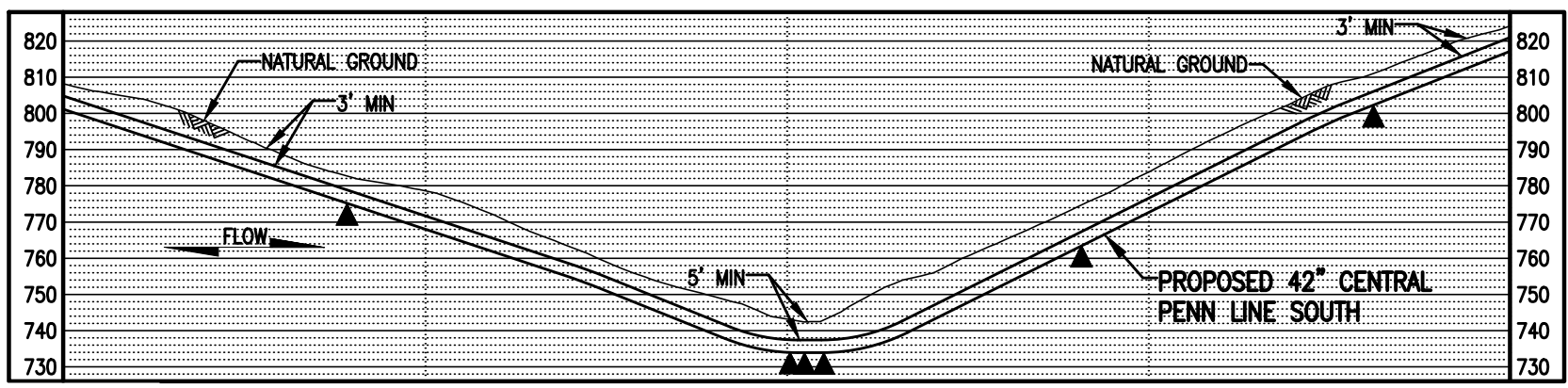
	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK

DRAWING NO.		REFERENCE TITLE	
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T70-12012 ● M-0423 M.P. 3.83 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION
0	10/25/16	LR	ISSUED FOR PADEP SUBMITTAL #2
W.O. NO.	CHK.	APP.	
1161503	CLR	MJH	
DRAWN BY: CM		DATE: 07/06/16	ISSUED FOR BID:
CHECKED BY: CLR		DATE: 07/06/16	ISSUED FOR CONSTRUCTION:
APPROVED BY: MJH		DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/M-0423-3.83-01
W.O. NUMBER: 1161503		SCALE: 1" = 50'	
		REVISION: 0	
		SHEET 1 OF 1	



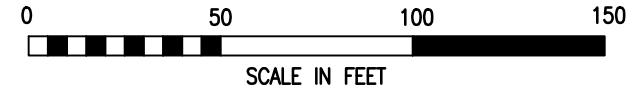
WETLAND DISTURBANCE:

WETLAND W-T01-12004	ACRE
TEMPORARY DISTURBANCE	0.0057
PERMANENT DISTURBANCE	0.0009
TOTAL DISTURBANCE	0.0066



- NOTES:**
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC),
 - STATION 1+00 SHOWN IS EQUAL TO M-0423 STATION 250+50 ON THE EROSION AND SEDIMENT CONTROL PLAN.

- SURVEY NOTES:**
- T.B.M. IRON ROD - 19' RT. OF M-0423 M.P. 4.80, ELEV. = 826.52' (NAVD88).

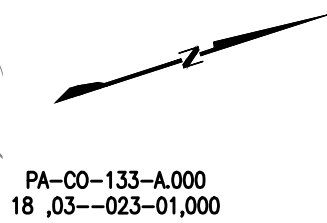
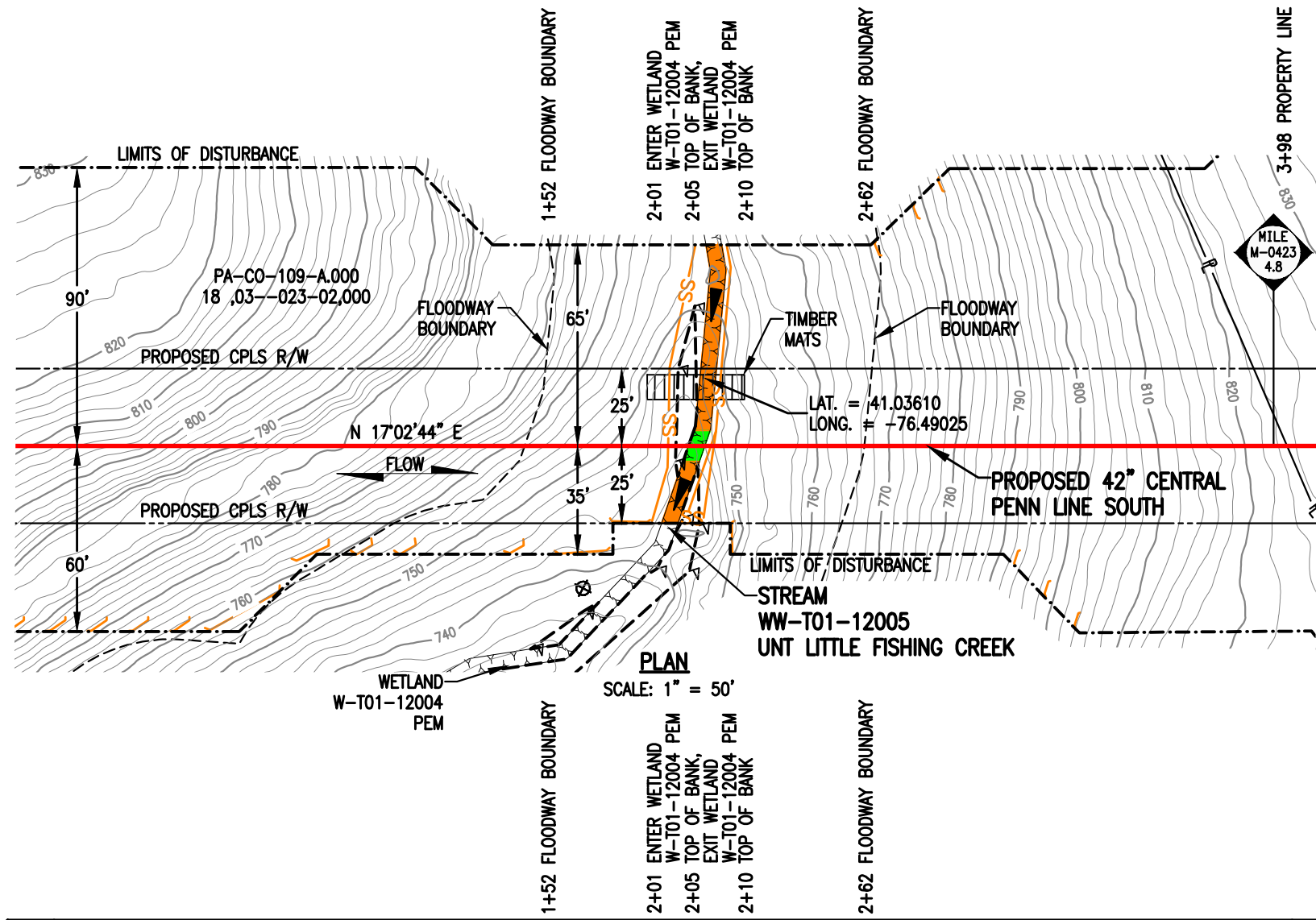


LEGEND

	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								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: MZL	DATE: 07/26/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	MZL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/26/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 07/26/16	DRAWING NUMBER: 24-1600-70-20-A/M-0423-4.76-01	SHEET 1
							WO: 1161503		6:47am 9/29/2016 jibeast	OF 1

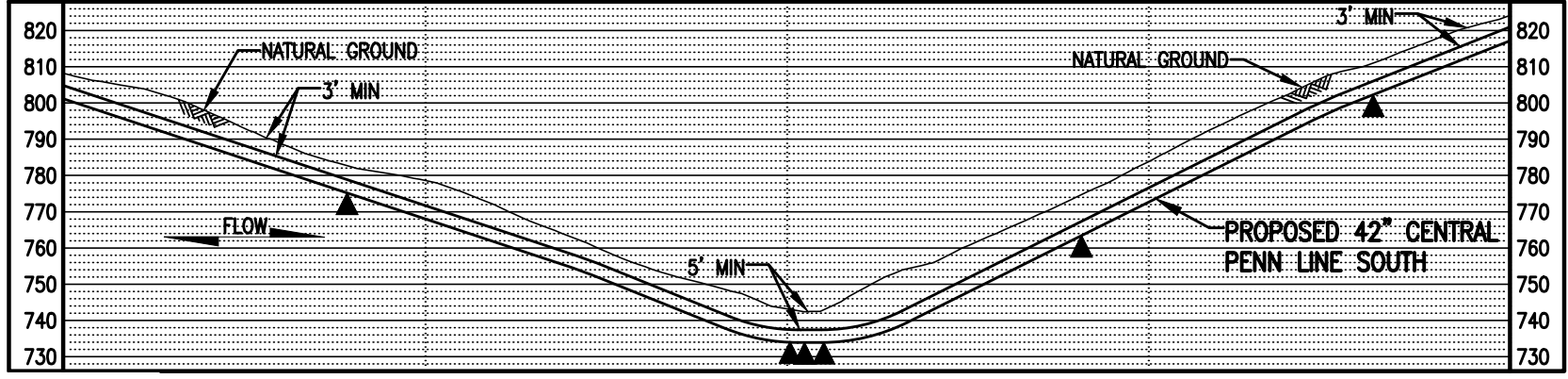
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
 WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
 ATLANTIC SUNRISE PROJECT
 PROPOSED 42" CENTRAL PENN LINE SOUTH
 WETLAND CROSSING W-T01-12004
 M-0423 M.P. 4.76
 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA



STREAM DISTURBANCE:

STREAM WW-T01-12005	ACRE
TEMPORARY STREAM DISTURBANCE	0.0093
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0105
TEMPORARY FLOODWAY DISTURBANCE	0.2132
PERMANENT FLOODWAY DISTURBANCE	0.0230
TOTAL FLOODWAY DISTURBANCE	0.2362

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.27
STREAM LENGTH	92.17

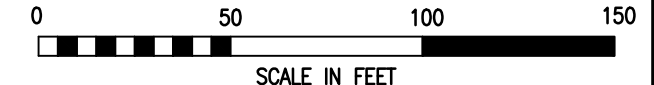


GENERAL NOTES:

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 M-0423 STATION 250+50 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. IRON ROD - 19' RT. OF M-0423 M.P. 4.80, ELEV. = 826.52' (NAVD88).



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

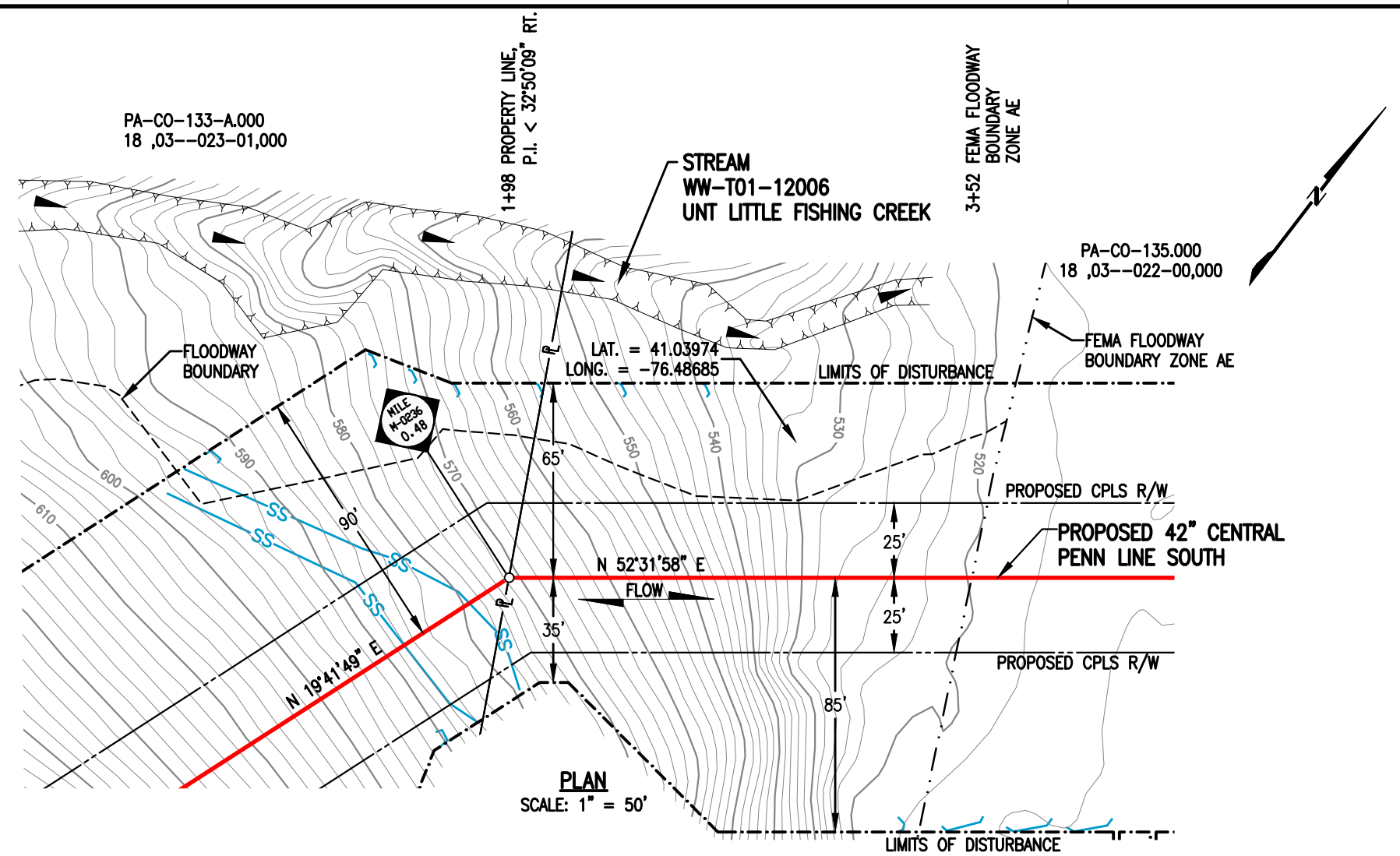
WOOD GROUP MUSTANG, INC.

- ▲ 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 — 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-T01-12005 ● M-0423 M.P. 4.77 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.		DATE			
0		10/25/16		DRAWN BY: MZL DATE: 07/25/16 ISSUED FOR BID: SCALE: 1" = 50' CHECKED BY: CLR DATE: 07/25/16 ISSUED FOR CONSTRUCTION: REVISION: 0 APPROVED BY: MJH DATE: 07/25/16 DRAWING NUMBER: 24-1600-70-09-A/M-0423-4.77-01 SHEET 1 WO: 1161503	

PA-CO-133-A.000
18 ,03--023-01,000



FLOODWAY DISTURBANCE:

STREAM WW-T01-12006	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.1734
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.1734

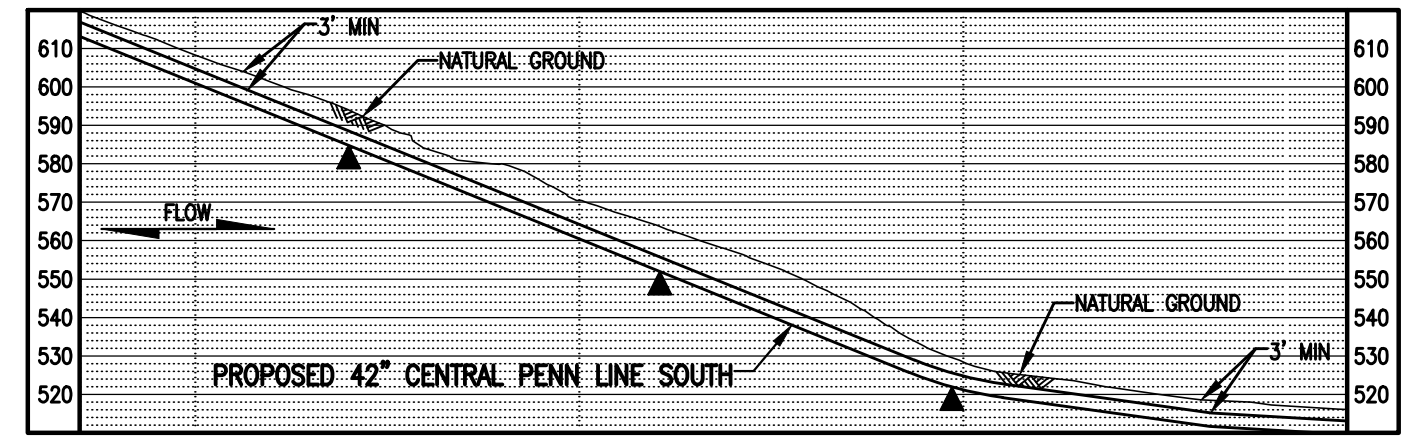
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

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 M-0236 STATION 24+36 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

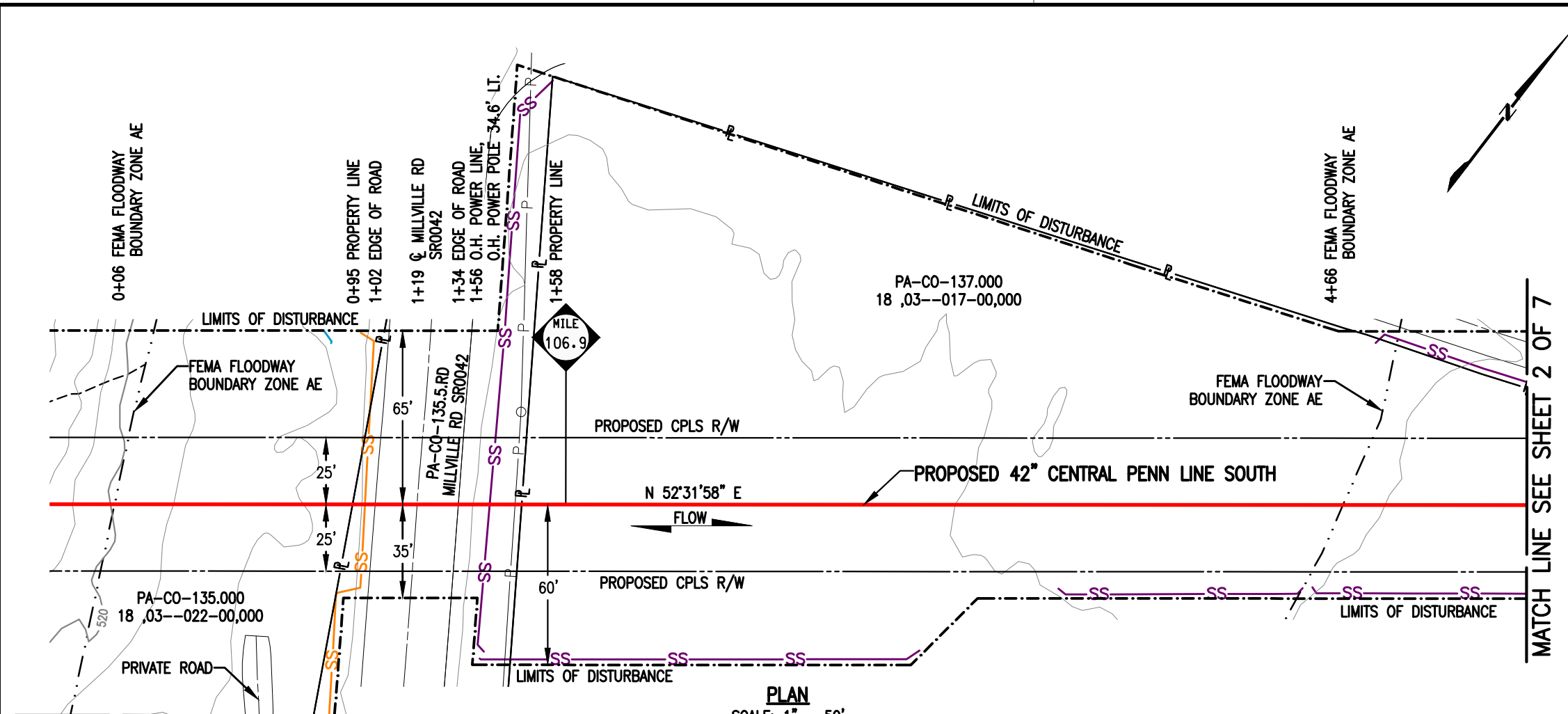
1. T.B.M. SURVEY CONTROL POINT - 94' LT. OF M-0236 M.P. 0.50, ELEV. = 537.85' (NAVD88).



LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT STREAM IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY STREAM IMPACT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		
	PROPOSED CPLS R/W		WELL POINT		12" SEDIMENT BARRIER
	PROPERTY LINE		TRENCH PLUG		18" SEDIMENT BARRIER
	FOREIGN PIPELINE		WATERBODY		24" SEDIMENT BARRIER
	WETLAND AREA		TREE LINE		32" SEDIMENT BARRIER
	STREAM FLOW		FLOODWAY BOUNDARY		TOP OF BANK
	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-T01-12006 M.P. 106.85 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL CHECKED BY: CLR APPROVED BY: MJH W.O.: 1161503
0	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	DATE: 02/01/16 ISSUED FOR CONSTRUCTION:
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	DATE: 02/01/16 DATE: 02/03/16 DRAWING NUMBER: 24-1600-70-09-A/M-0236-0.48-01 SCALE: 1" = 50' REVISION: 1
				SHEET 1 OF 1 10/3/2016 12:53pm jibeast			



PLAN
SCALE: 1" = 50'

FLOODWAY DISTURBANCE:

STREAM WW-RS-12002	ACRE
TEMPORARY STREAM DISTURBANCE	0.1506
PERMANENT STREAM DISTURBANCE	0.0166
TOTAL STREAM DISTURBANCE	0.1672
TEMPORARY FLOODWAY DISTURBANCE	8.1447
PERMANENT FLOODWAY DISTURBANCE	0.7028
TOTAL FLOODWAY DISTURBANCE	8.8475
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	72.19
STREAM LENGTH	102.35

GENERAL NOTES:

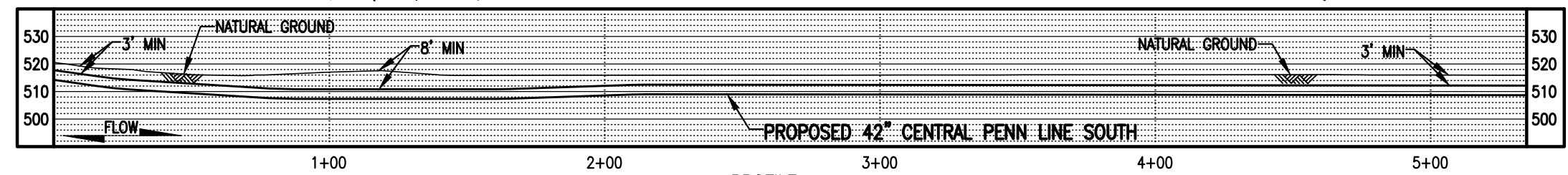
1. THIS DRAWING CONTAINS REMOTE SENSING DATA.
2. STREAM CROSSING METHODS FOR WW-RS-12002, WW-RS-99103, WW-T52-13001 AND WW-T52-13001C SHALL BE DAM AND PUMP (DPX). STREAM CROSSING METHOD FOR WW-RS-99108 SHALL BE FLUME (FX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
3. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD MAP DATA.
4. STATION 1+00 SHOWN IS EQUAL TO STATION 5643+57 ON THE EROSION AND SEDIMENT CONTROL PLAN.
5. IMPACTS FOR STREAM WW-T52-13001, STREAM WW-T52-13001C, STREAM WW-RS-99103 AND STREAM WW-RS-99104 ARE SHOWN ON SHEET 6 OF 7.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 24' RT. OF M.P. 106.99, ELEV. = 514.99' (NAVD88).

MATCH LINE SEE SHEET 7 OF 7

MATCH LINE SEE SHEET 2 OF 7



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



LEGEND

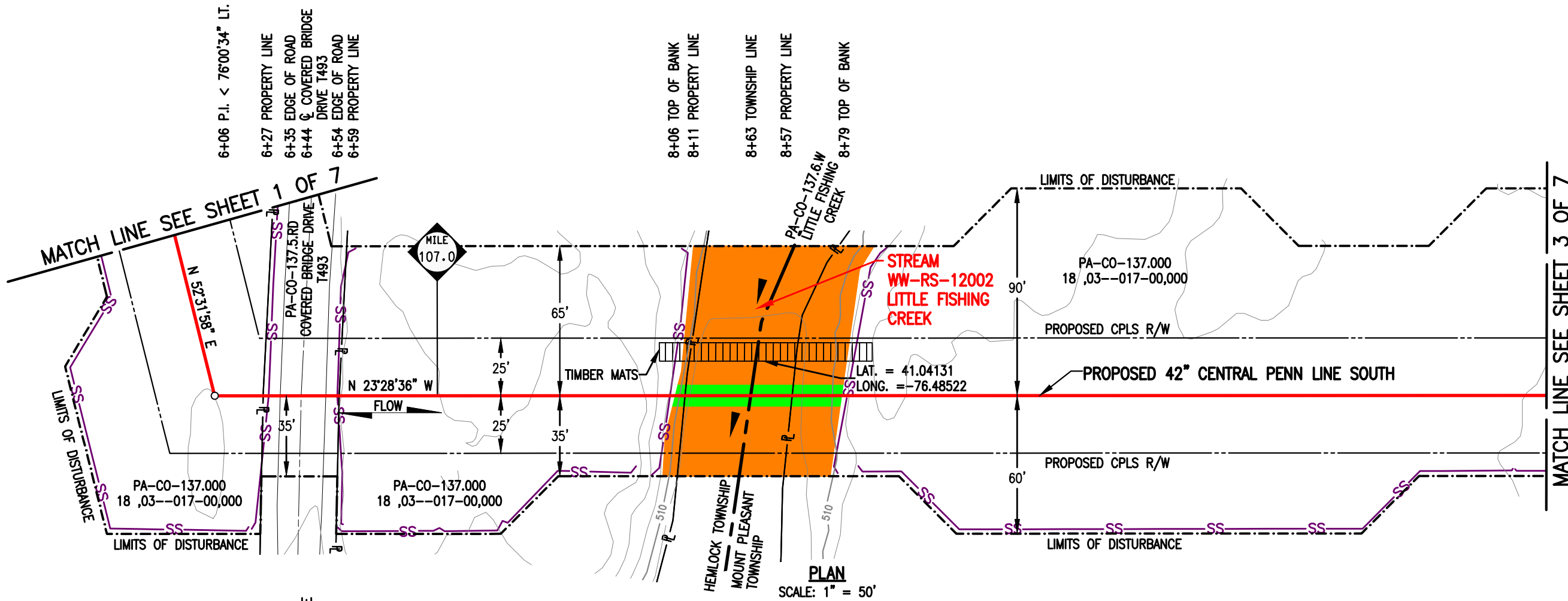
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS	
	EXISTING PIPELINES		PHOTO DATA POINT	
	EXISTING TGPL R/W		WETLAND DATA POINT	
	LIMITS OF DISTURBANCE		UPLAND DATA POINT	
	PROPOSED CPLS R/W		WELL POINT	
	PROPERTY LINE		TRENCH PLUG	
	FOREIGN PIPELINE		WATERBODY	
	WETLAND AREA		TREE LINE	
	STREAM FLOW		FLOODWAY BOUNDARY	
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY	
	EXISTING FENCE		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 CROSSINGS WW-RS-12002 M.P. 107.03, WW-RS-99103 M-0214 M.P. 0.16, WW-T52-13001C, WW-T52-13001, WW-RS-99104 @ M-0214 M.P. 0.17 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL	DATE: 08/06/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 08/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 08/06/16	DRAWING NUMBER: 24-1600-70-09-A/107.02-01	SHEET 1
							WO: 1161503	10/25/2016	9:42am	OF 7

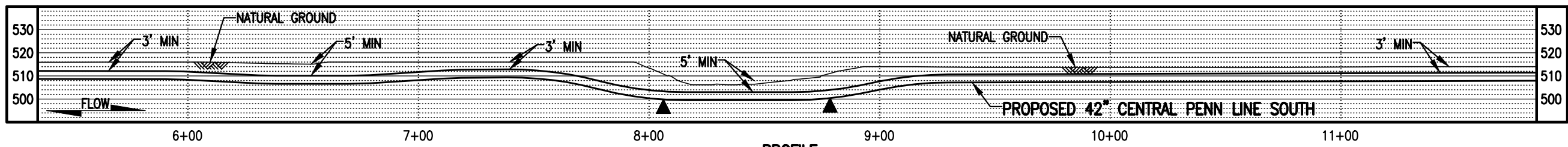
STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 7

GENERAL NOTES:
SEE SHEET 1 OF 7

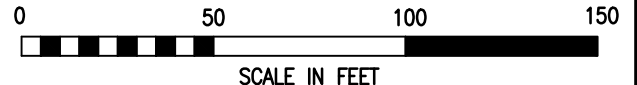
SURVEY NOTES:
SEE SHEET 1 OF 7



PLAN
SCALE: 1" = 50'



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



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

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/25/16	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 CROSSINGS WW-RS-12002 M.P. 107.03, WW-RS-99103 M-0214 M.P. 0.16,
WW-T52-13001C, WW-T52-13001, WW-RS-99104 @ M-0214 M.P. 0.17
HEMLOCK & MOUNT PLEASANT TOWNSHIPS, COLUMBIA COUNTY, PENNSYLVANIA

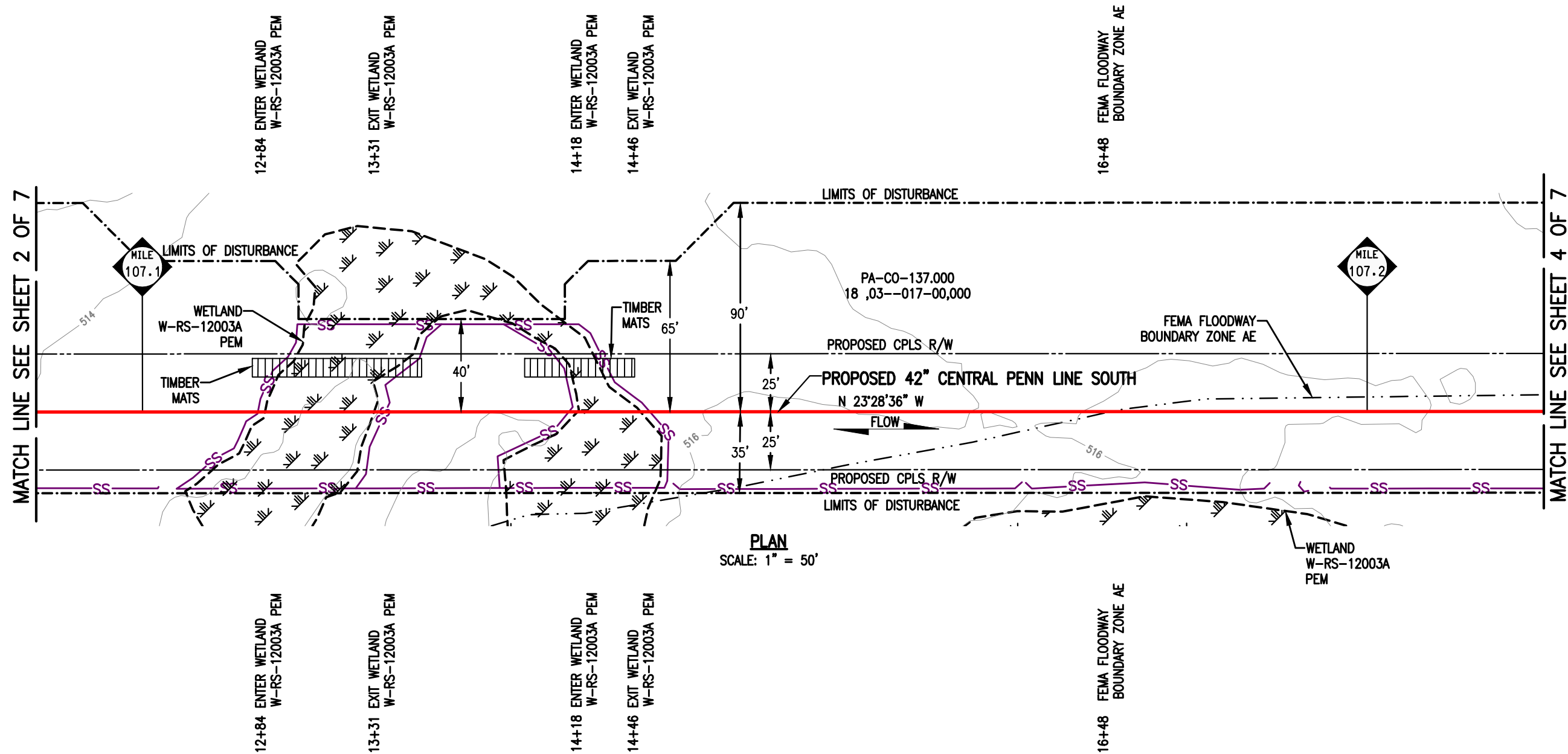
Williams

DRAWN BY: JB	DATE: 08/05/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 08/05/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 08/05/16	DRAWING NUMBER: 24-1600-70-09-A/107.02-01	SHEET 2
WO: 1161503		9:35am 10/25/2016 t3le	OF 7

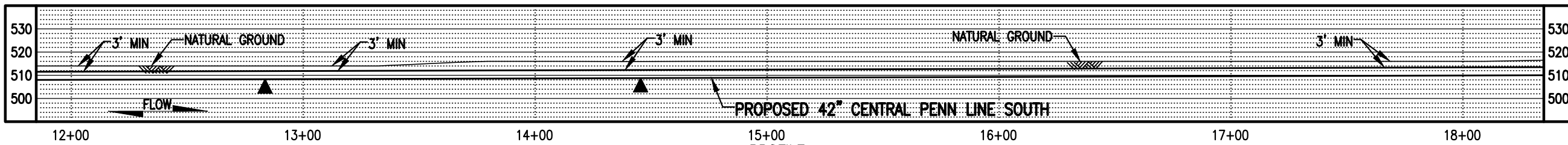
STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 7

GENERAL NOTES:
SEE SHEET 1 OF 7

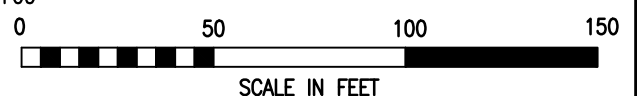
SURVEY NOTES:
SEE SHEET 1 OF 7



PLAN
SCALE: 1" = 50'



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
	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	W.O. NO.	CHK.	APP.
0	10/25/16	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 CROSSINGS WW-RS-12002 M.P. 107.03, WW-RS-99103 M-0214 M.P. 0.16,
WW-T52-13001C, WW-T52-13001, WW-RS-99104 @ M-0214 M.P. 0.17
MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

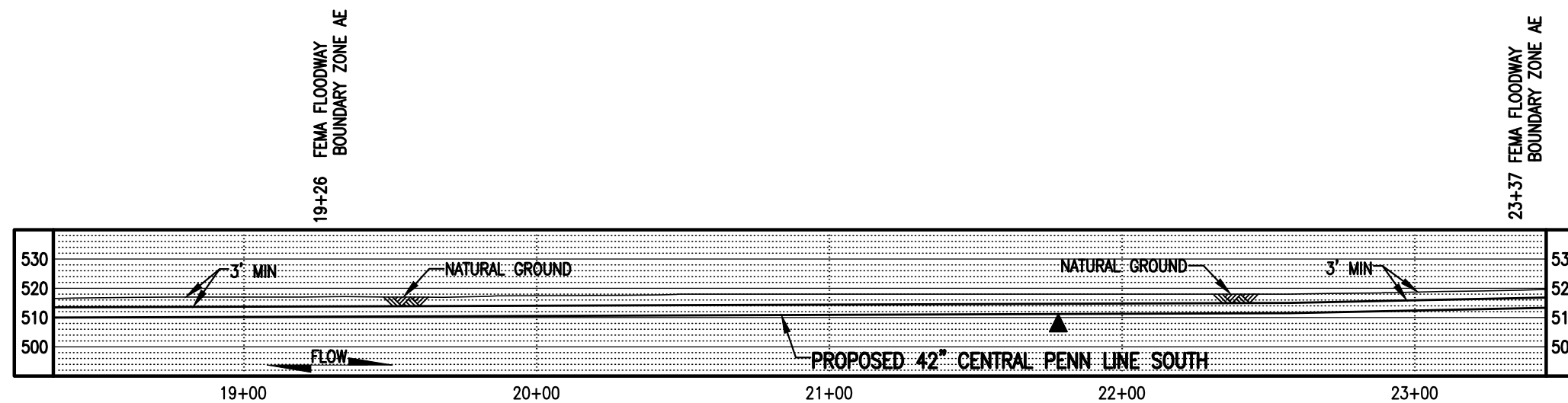
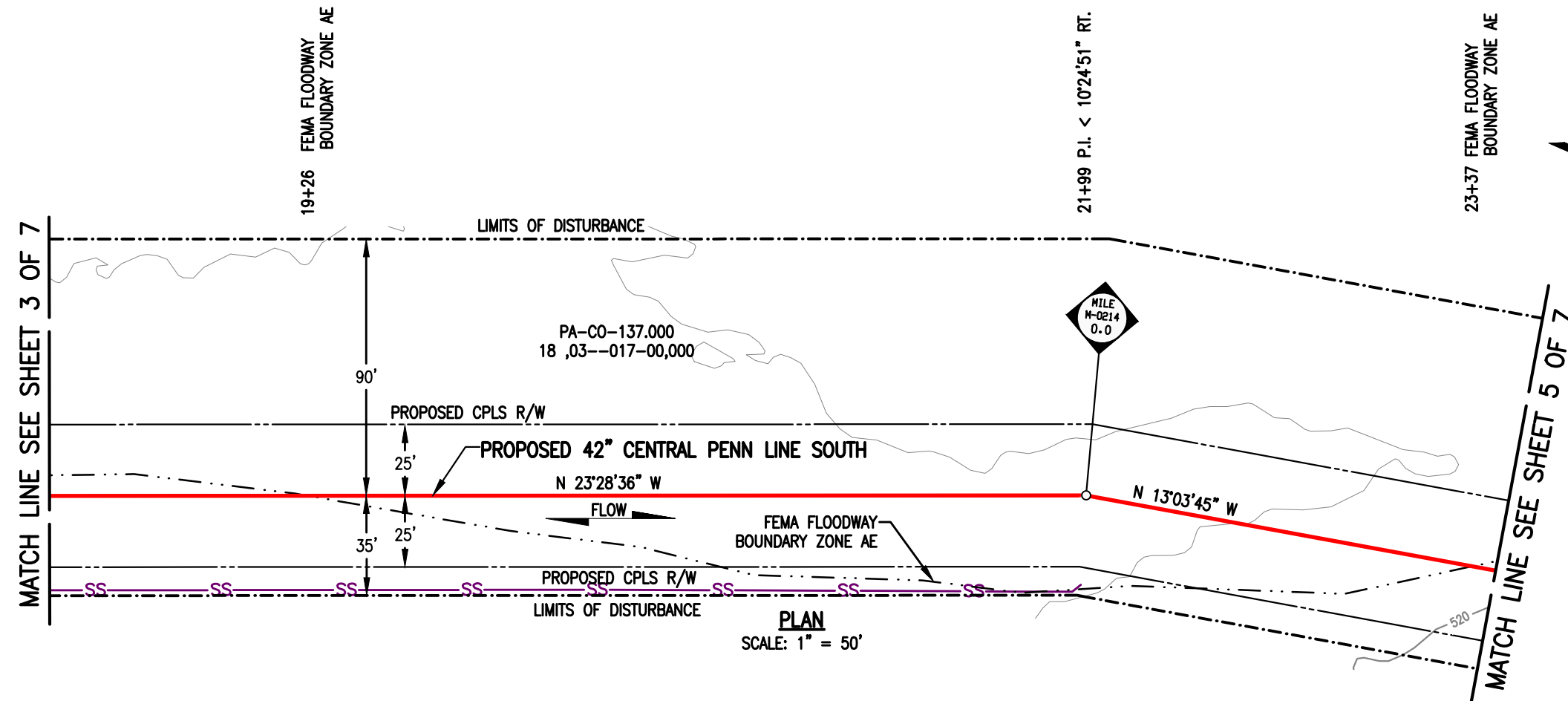
Williams

DRAWN BY: JB	DATE: 08/05/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 08/05/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 08/05/16	DRAWING NUMBER: 24-1600-70-09-A/107.02-01	SHEET 3 OF 7
W.O. NO.: 1161503			

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 7

GENERAL NOTES:
SEE SHEET 1 OF 7

SURVEY NOTES:
SEE SHEET 1 OF 7



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
	PERMANENT STREAM IMPACT
	TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

DRAWING NO.	REFERENCE TITLE
0	ISSUED FOR PADEP SUBMITTAL #2

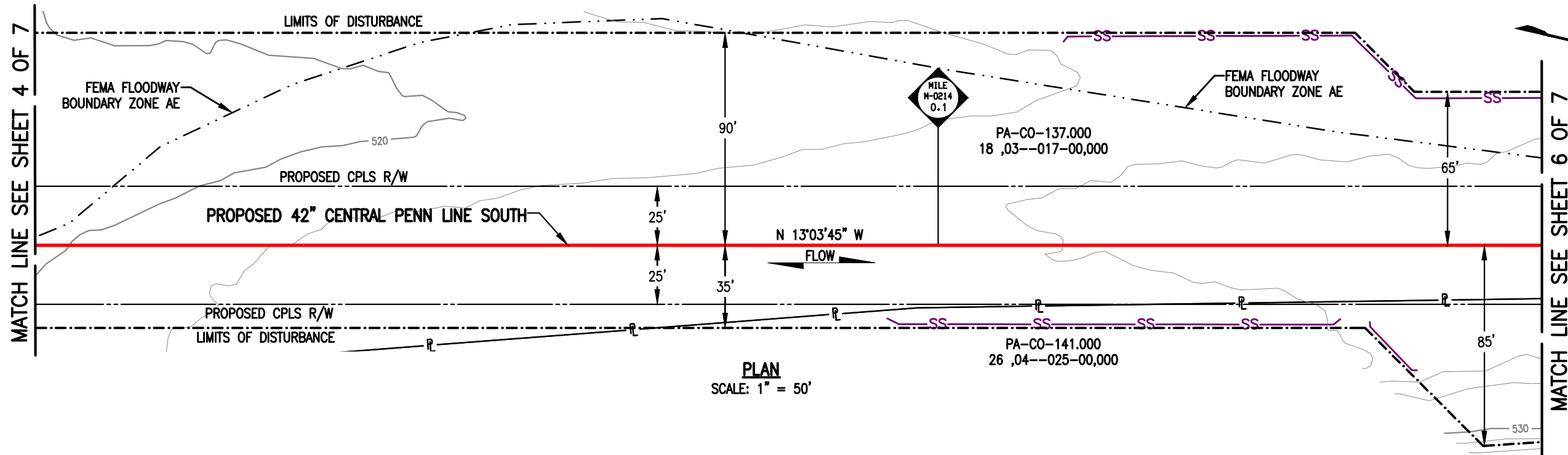
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC			
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS			
ATLANTIC SUNRISE PROJECT			
PROPOSED 42" CENTRAL PENN LINE SOUTH			
STREAM CROSSINGS WW-RS-12002 M.P. 107.03, WW-RS-99103 M-0214 M.P. 0.16, WW-T52-13001C, WW-T52-13001, WW-RS-99104 @ M-0214 M.P. 0.17			
MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
DRAWN BY:	JB	DATE:	08/05/16
CHECKED BY:	CLR	DATE:	08/05/16
APPROVED BY:	MJH	DATE:	08/05/16
ISSUED FOR BID:		SCALE:	1" = 50'
ISSUED FOR CONSTRUCTION:		REVISION:	0
DRAWING NUMBER:	24-1600-70-09-A/107.02-01	SHEET	4
W.O.:	1161503	OF	7

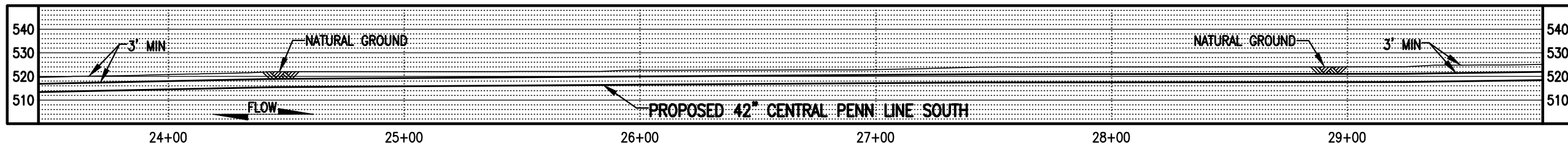
STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 7

GENERAL NOTES:
SEE SHEET 1 OF 7

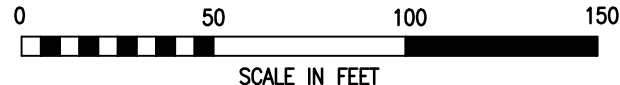
SURVEY NOTES:
SEE SHEET 1 OF 7



PLAN
SCALE: 1" = 50'

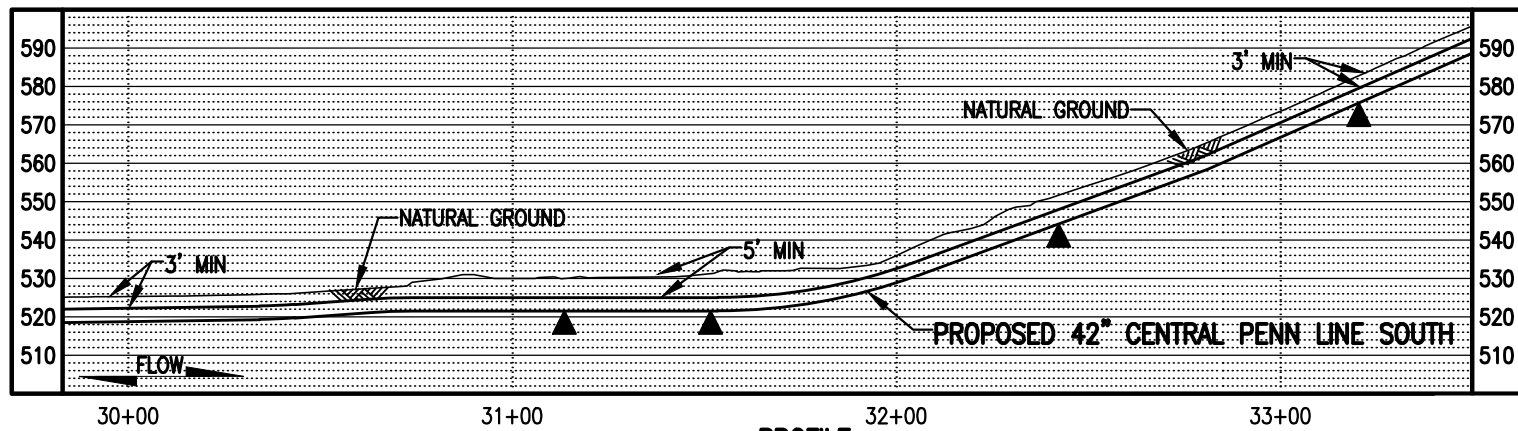
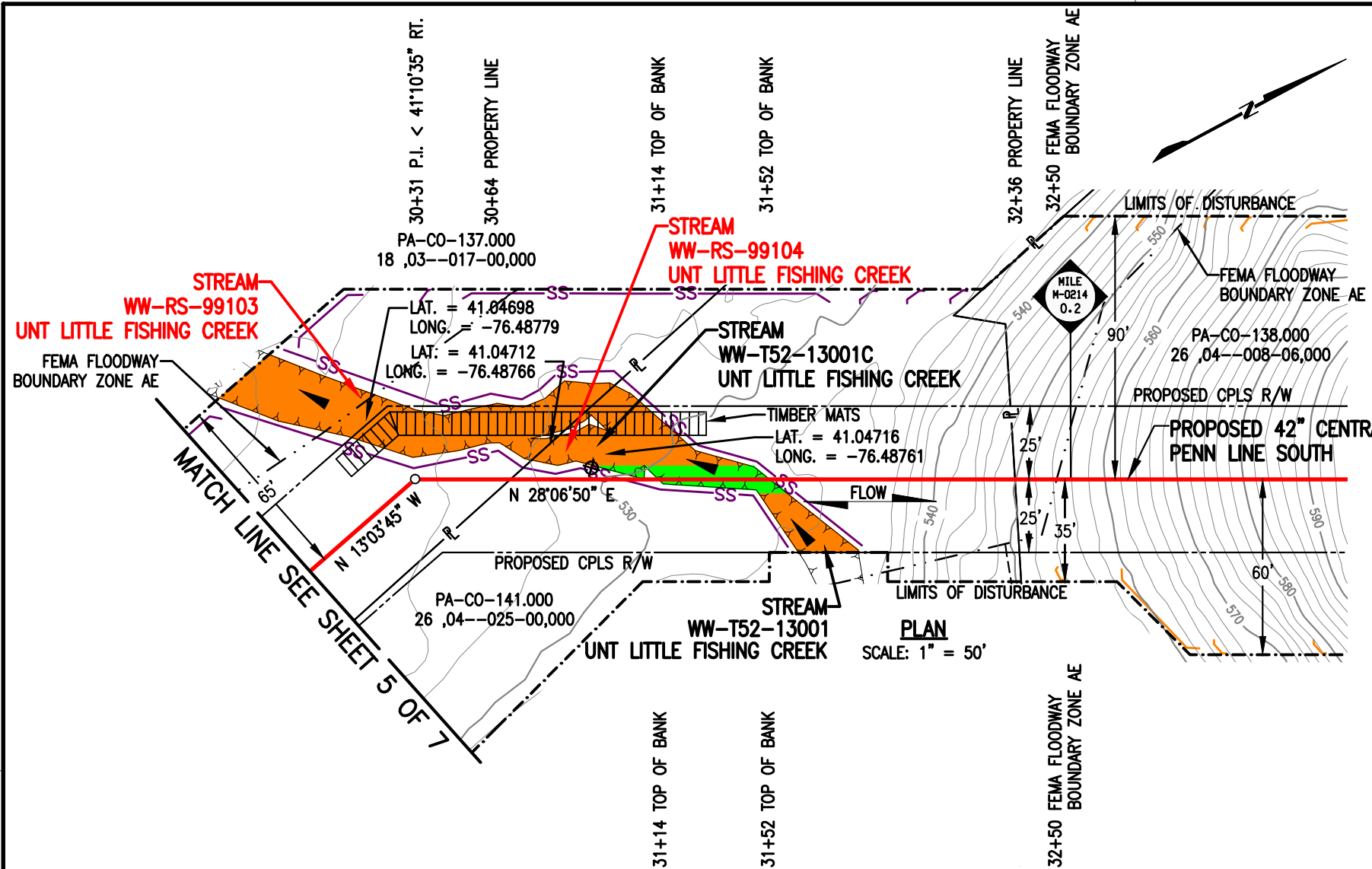


PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



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
	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								
		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-RS-12002 M.P. 107.03, WW-RS-99103 M-0214 M.P. 0.16, WW-T52-13001C, WW-T52-13001, WW-RS-99104 @ M-0214 M.P. 0.17 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 08/05/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 08/05/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 08/05/16	DRAWING NUMBER: 24-1600-70-09-A/107.02-01	SHEET 5
							WO: 1161503		5:55am 10/6/2016 jibeast	OF 7



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

STREAM DISTURBANCE:

STREAM WW-T52-13001C	ACRE
TEMPORARY STREAM DISTURBANCE	0.0042
PERMANENT STREAM DISTURBANCE	0.0011
TOTAL STREAM DISTURBANCE	0.0053
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	13.29
STREAM LENGTH	48.49

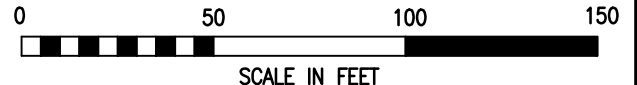
STREAM WW-T52-13001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0184
PERMANENT STREAM DISTURBANCE	0.0071
TOTAL STREAM DISTURBANCE	0.0255
TEMPORARY FLOODWAY DISTURBANCE	0.2999
PERMANENT FLOODWAY DISTURBANCE	0.0354
TOTAL FLOODWAY DISTURBANCE	0.3353
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	38.04
STREAM LENGTH	92.83

STREAM WW-RS-99103	ACRE
TEMPORARY STREAM DISTURBANCE	0.0459
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0459
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	30.98
STREAM LENGTH	132.99

STREAM WW-RS-99104	ACRE
TEMPORARY STREAM DISTURBANCE	0.0046
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0046
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	11.56
STREAM LENGTH	38.36

GENERAL NOTES:
SEE SHEET 1 OF 7

SURVEY NOTES:
SEE SHEET 1 OF 7



LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT STREAM IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY STREAM IMPACT
	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				

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-RS-12002 M.P. 107.03, WW-RS-99103 M-0214 M.P. 0.16,
WW-T52-13001C, WW-T52-13001, WW-RS-99104 @ M-0214 M.P. 0.17
MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	JB	08/05/16		1" = 50'

CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	REVISION:
CLR	08/05/16		0

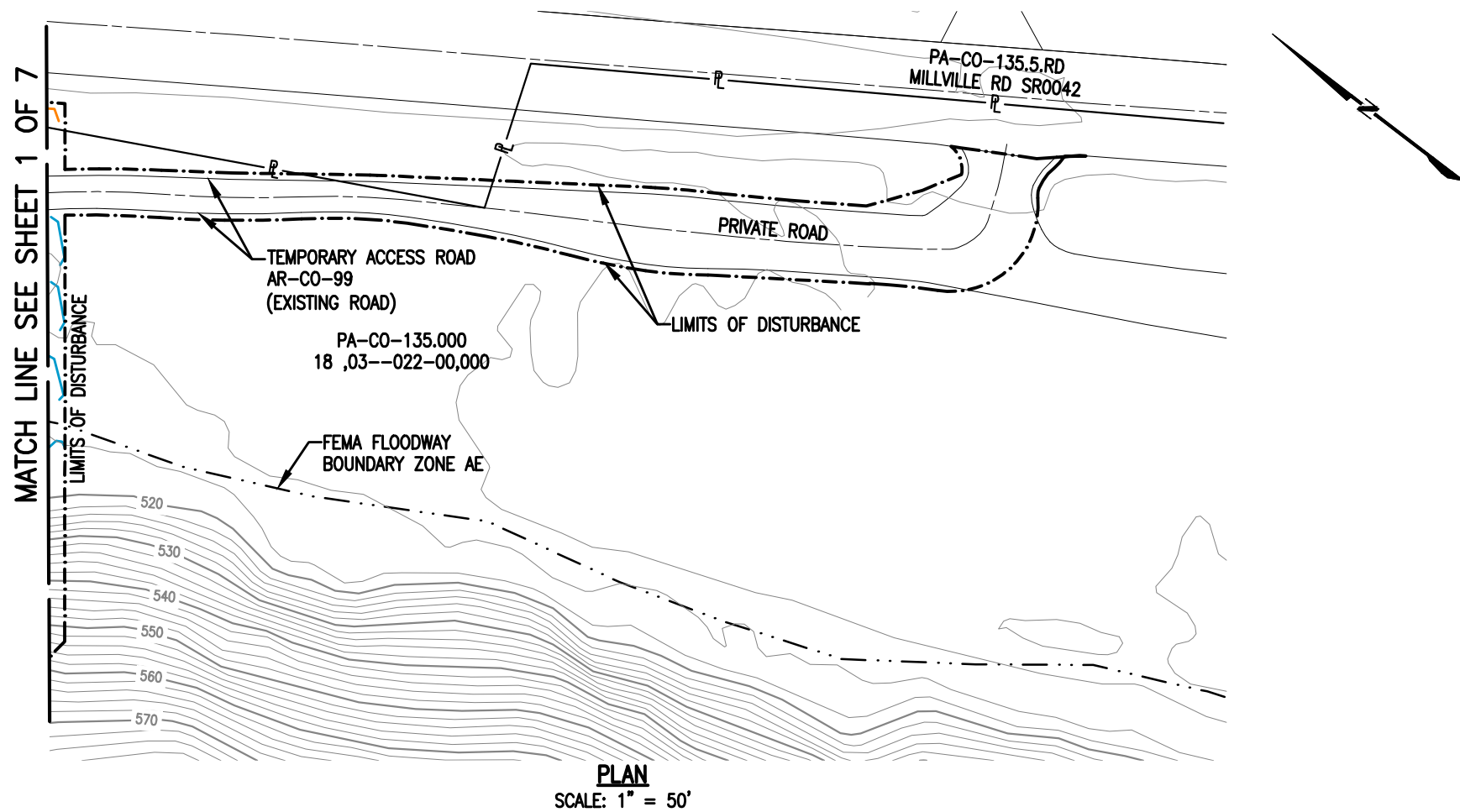
APPROVED BY:	DATE:	DRAWING NUMBER:	SHEET
MJH	08/05/16	24-1600-70-09-A/107.02-01	6

W.O. NUMBER: 1161503
 10/25/2016
 9:45am t3le
 K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\RS\24-1600-70-09-A_107.02-01.dwg OF 7

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 7

GENERAL NOTES:
SEE SHEET 1 OF 7

SURVEY NOTES:
SEE SHEET 1 OF 7



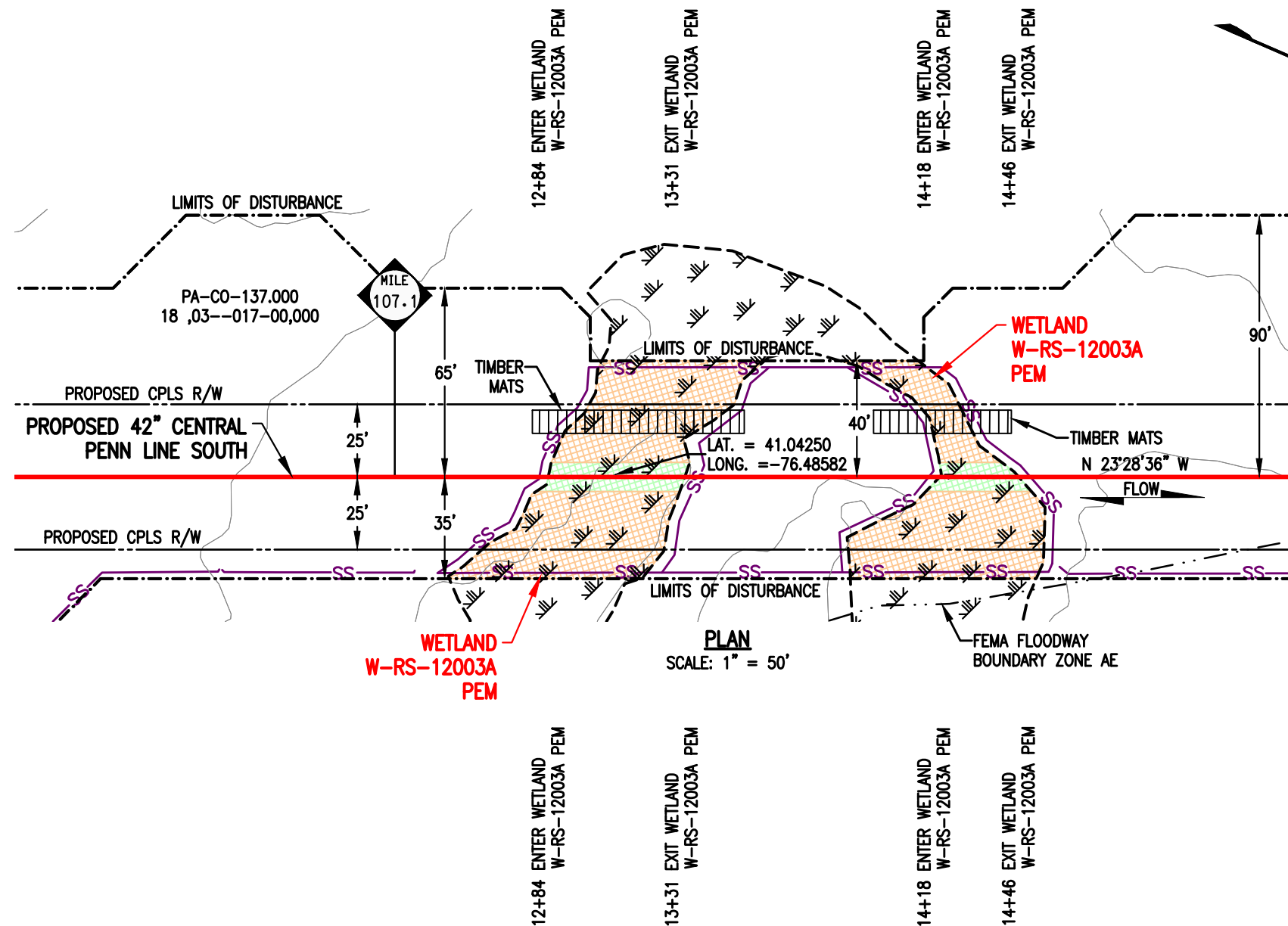
LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND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

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/25/16	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 CROSSINGS WW-RS-12002 M.P. 107.03, WW-RS-99103 M-0214 M.P. 0.16, WW-T52-13001, WW-T52-13001C, WW-RS-99104 @ M-0214 M.P. 0.17 HEMLOCK TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
DRAWN BY: JB		DATE: 08/05/16	
CHECKED BY: CLR		DATE: 08/05/16	
APPROVED BY: MJH		DATE: 08/05/16	
W.O. NO: 1161503		ISSUED FOR CONSTRUCTION: 24-1600-70-09-A/107.02-01	
SCALE: 1" = 50'		REVISION: 0	
DRAWING NUMBER: 24-1600-70-09-A/107.02-01		SHEET 7	
10/25/2016 t3le		OF 7	

WETLAND DISTURBANCE:

WETLAND W-RS-12003A	ACRE
TEMPORARY DISTURBANCE	0.1325
PERMANENT DISTURBANCE	0.0173
TOTAL DISTURBANCE	0.1498

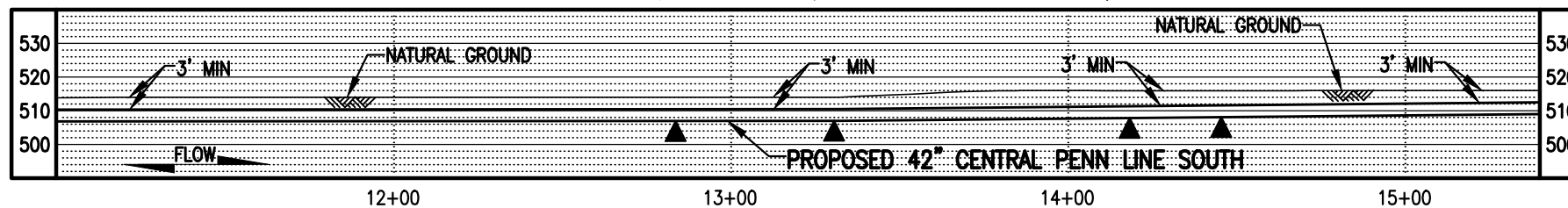


NOTES:

1. THIS DRAWING CONTAINS REMOTE SENSING DATA.
2. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
3. STATION 12+00 SHOWN IS EQUAL TO STATION 5654+57 ON THE EROSION AND SEDIMENT CONTROL PLAN.

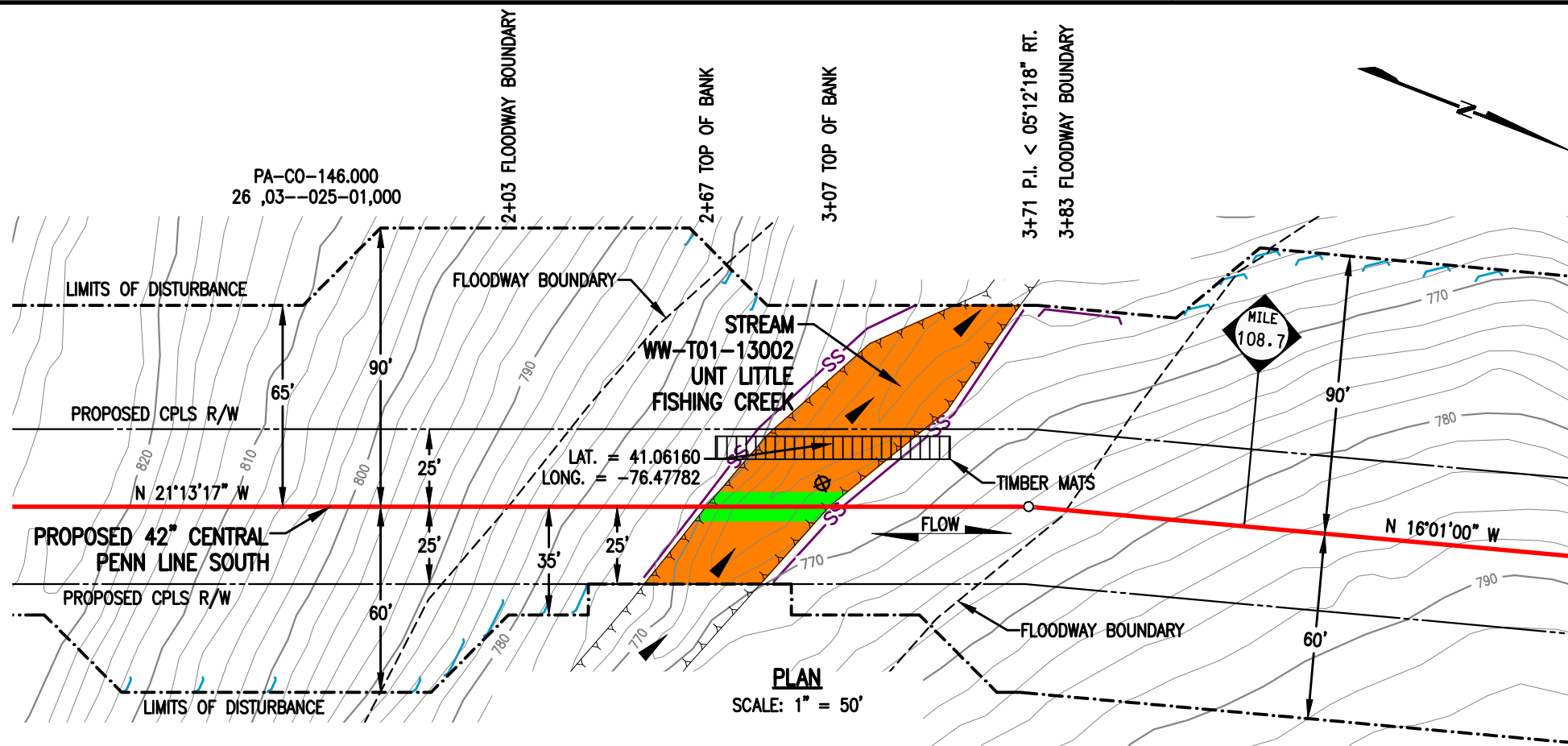
SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 24' RT. OF M.P. 106.99, ELEV. = 514.99' (NAVD88).



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
— P —	PROPERTY LINE	▲	TRENCH PLUG
— F —	FOREIGN PIPELINE	◊	WATERBODY
▨	WETLAND AREA	—	TREE LINE
— P —	EXISTING POWER LINE	- - - -	FLOODWAY BOUNDARY
— X —	EXISTING FENCE	- - - -	FEMA FLOODWAY BOUNDARY
— SS —	12" SEDIMENT BARRIER	▨	PERMANENT WETLAND IMPACT
— SS —	18" SEDIMENT BARRIER	▨	TEMPORARY WETLAND IMPACT
— SS —	24" SEDIMENT BARRIER		
— SS —	32" SEDIMENT BARRIER		
— Y —	TOP OF BANK		

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-RS-12003A ● M.P. 107.11 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: JB		DATE: 08/08/16		ISSUED FOR BID:	
CHECKED BY: CLR		DATE: 07/08/16		ISSUED FOR CONSTRUCTION:	
APPROVED BY: MJH		DATE: 07/08/16		DRAWING NUMBER: 24-1600-70-20-A/107.11-01	
WO: 1161503		10/25/2016		107.11-01.dwg	
				SCALE: 1" = 50'	
				REVISION: 0	
				SHEET 1 OF 1	



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T01-13002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0759
PERMANENT STREAM DISTURBANCE	0.0092
TOTAL STREAM DISTURBANCE	0.0851
TEMPORARY FLOODWAY DISTURBANCE	0.2910
PERMANENT FLOODWAY DISTURBANCE	0.0322
TOTAL FLOODWAY DISTURBANCE	0.3232

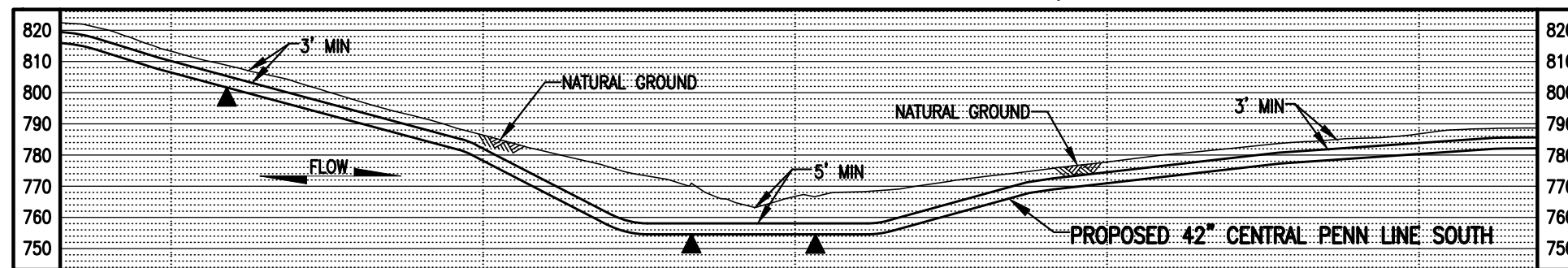
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	39.78
STREAM LENGTH	115.63

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 5736+95 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 52' RT. OF M.P. 108.66, ELEV. = 770.82' (NAVD88).



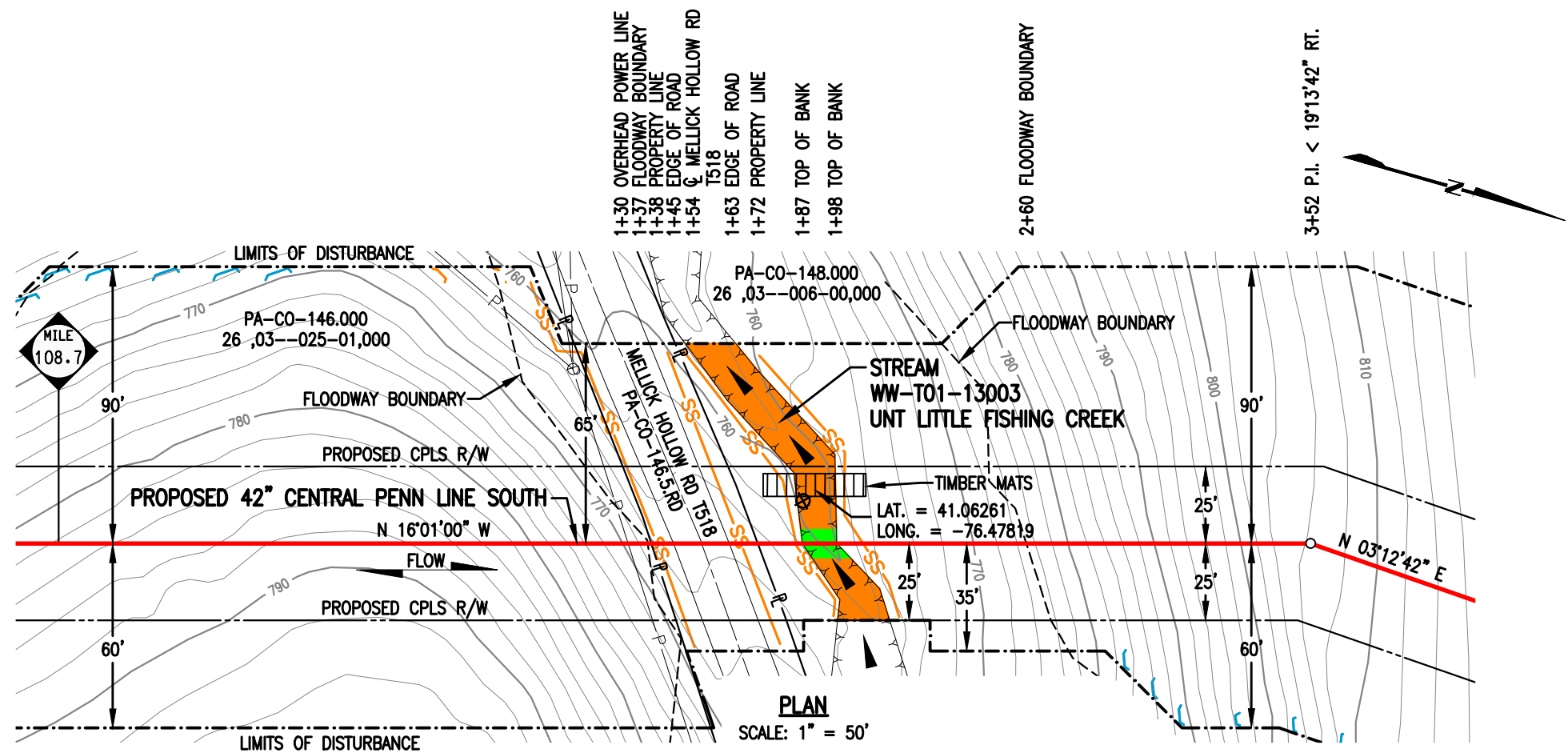
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		PERMANENT STREAM IMPACT
	EXISTING TGPL R/W		WETLAND DATA POINT		TEMPORARY STREAM 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		FLOODWAY BOUNDARY
	STREAM FLOW		FEMA FLOODWAY BOUNDARY		EXISTING FENCE
	EXISTING POWER LINE				
	EXISTING FENCE				

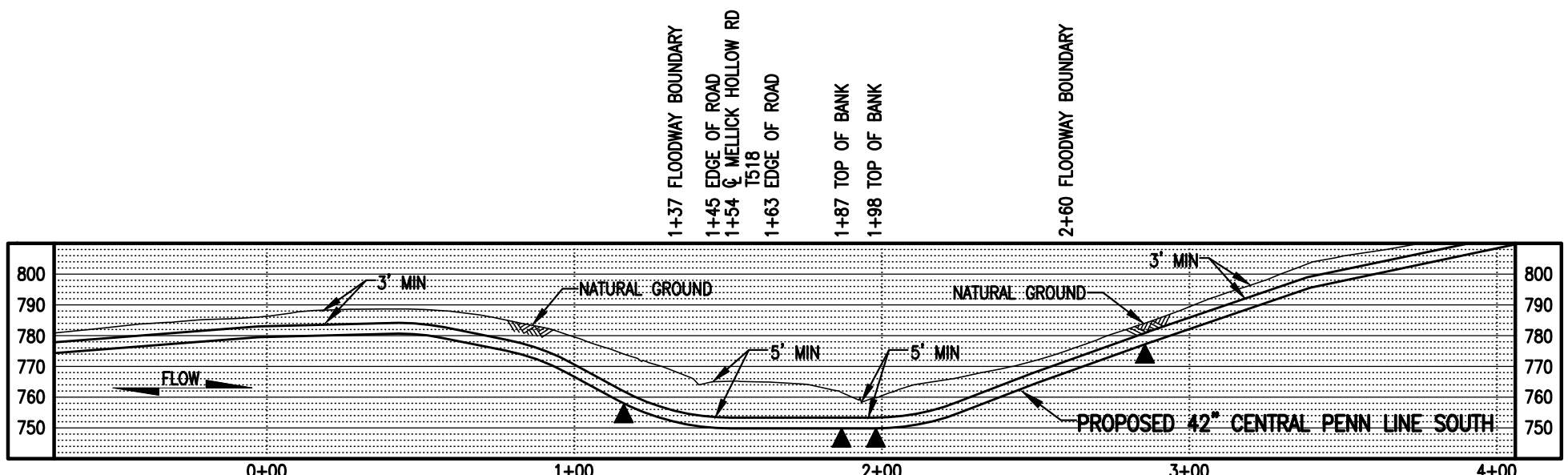
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T01-13002 © M.P. 108.67 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 04/30/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/108.67-01	SHEET 1
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	W.O. NUMBER: 1161503			OF 1



STREAM DISTURBANCE:

STREAM WW-T01-13003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0290
PERMANENT STREAM DISTURBANCE	0.0027
TOTAL STREAM DISTURBANCE	0.0317
TEMPORARY FLOODWAY DISTURBANCE	0.2496
PERMANENT FLOODWAY DISTURBANCE	0.0258
TOTAL FLOODWAY DISTURBANCE	0.2754

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	11.19
STREAM LENGTH	109.39

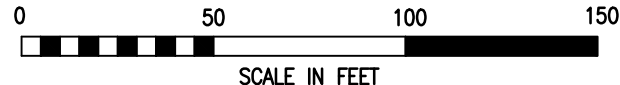


GENERAL NOTES:

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 0+00 SHOWN IS EQUAL TO STATION 5739+91 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

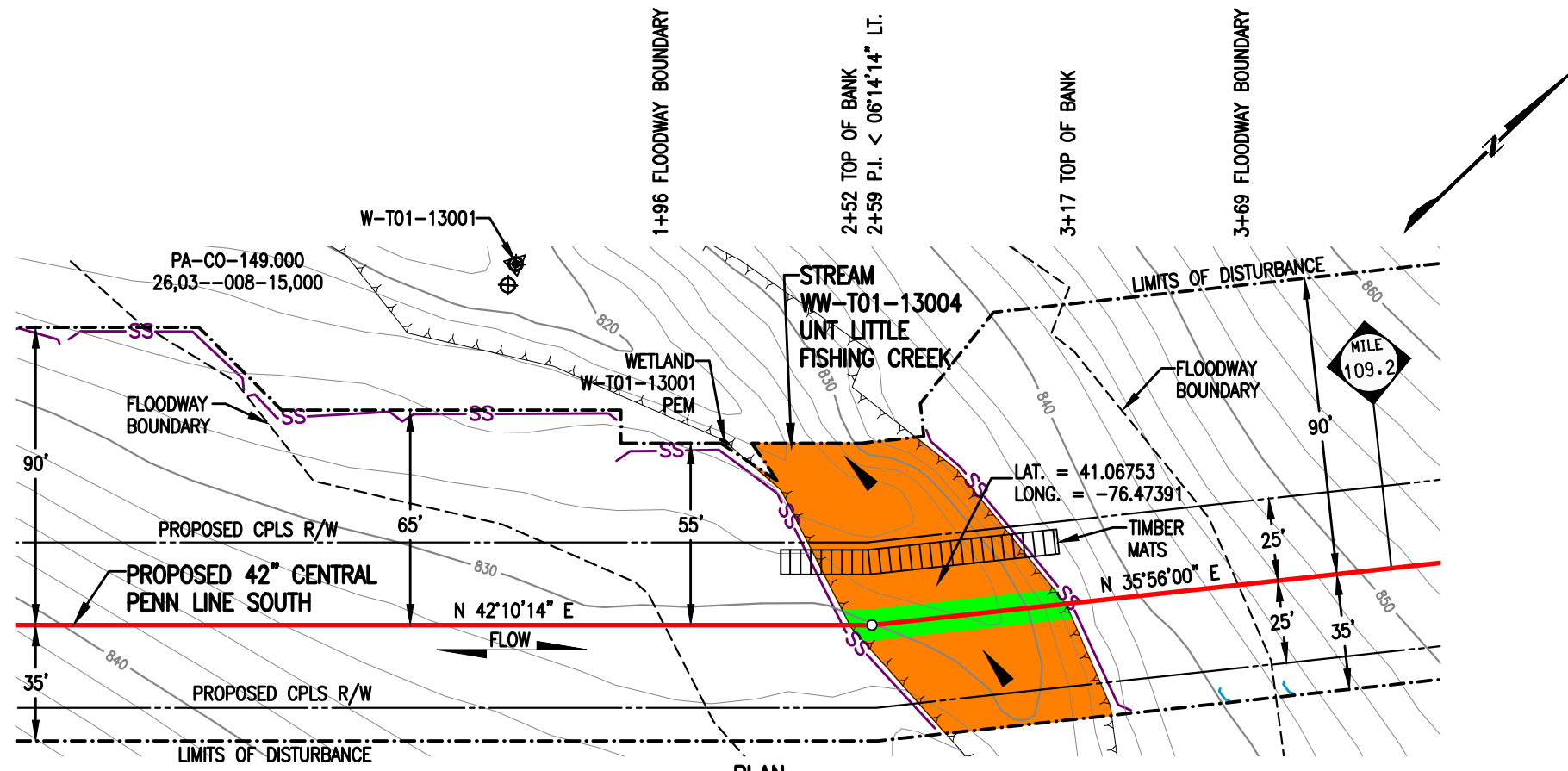
1. T.B.M. SURVEY CONTROL POINT - 9' LT. OF M.P. 108.74, ELEV. = 764.22' (NAVD88).



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-T01-13003 M.P. 108.75 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 04/30/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 05/29/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/108.75-01	SHEET 1
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503		10/4/2016	OF 1



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T01-13004	ACRE
TEMPORARY STREAM DISTURBANCE	0.1062
PERMANENT STREAM DISTURBANCE	0.0149
TOTAL STREAM DISTURBANCE	0.1211
TEMPORARY FLOODWAY DISTURBANCE	0.3194
PERMANENT FLOODWAY DISTURBANCE	0.0251
TOTAL FLOODWAY DISTURBANCE	0.3445

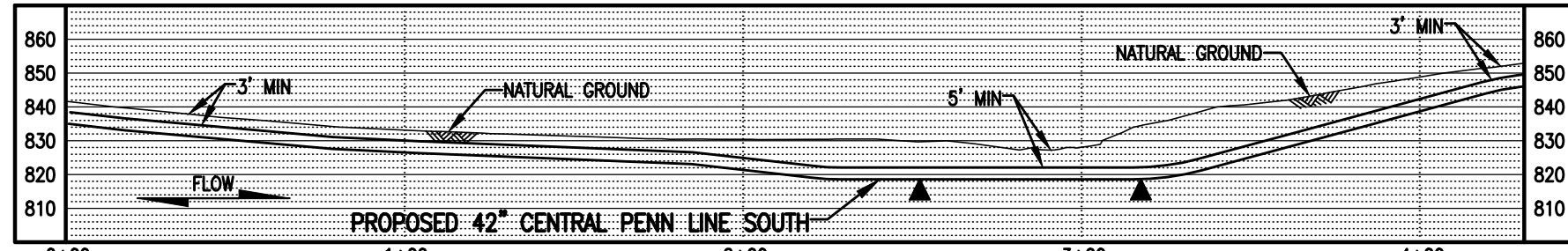
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	65.59
STREAM LENGTH	201.69

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 5762+59 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 118' LT. OF M.P. 109.13, ELEV. = 821.61' (NAVD88).



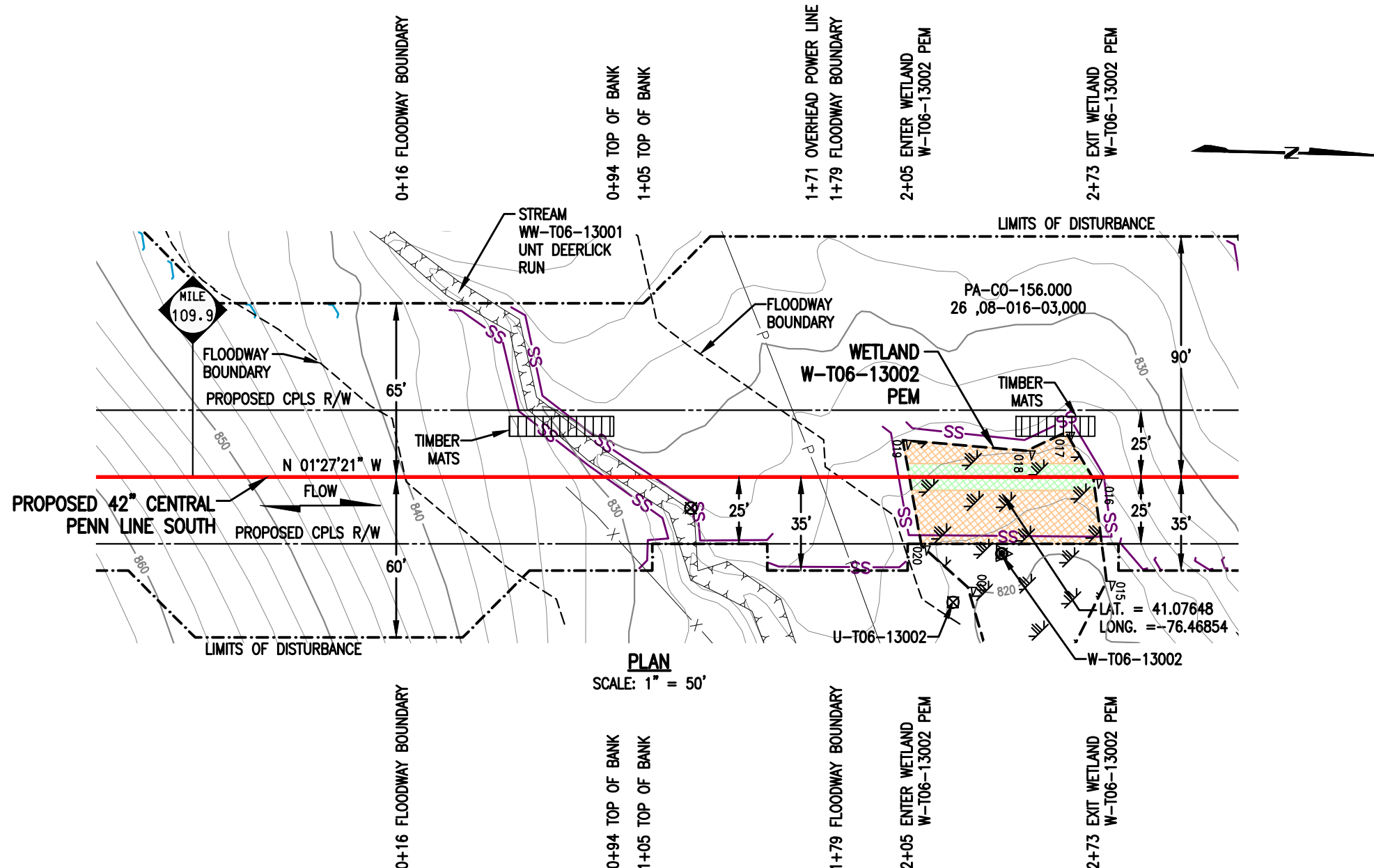
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



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		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-T01-13004 © M.P. 109.17 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 04/30/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 06/02/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/109.17-01	SHEET 1
				DRAWING NUMBER: 24-1600-70-09-A/109.17-01		SCALE: 1" = 50'		OF 1		



PLAN
SCALE: 1" = 50'

WETLAND DISTURBANCE:

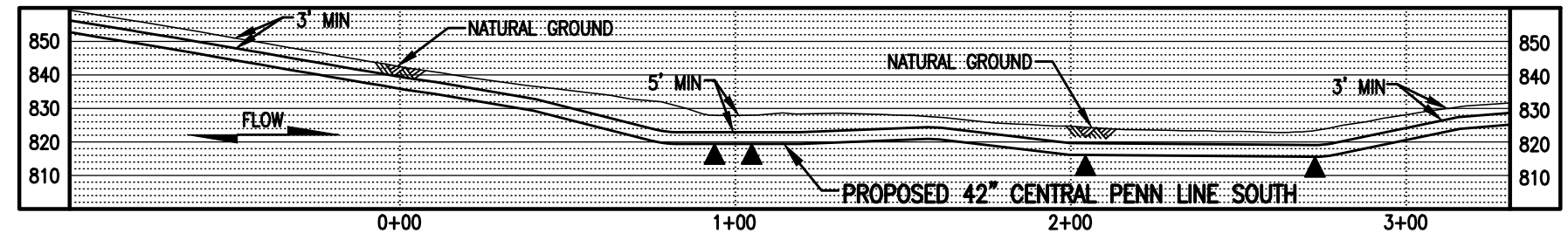
WETLAND W-T06-13002 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0421
PERMANENT DISTURBANCE	0.0156
TOTAL DISTURBANCE	0.0577

NOTES:

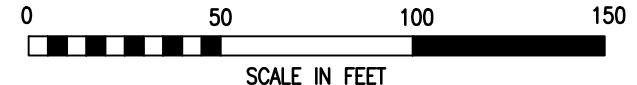
1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 0+00 SHOWN IS EQUAL TO STATION 5803+36 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 6' LT. OF M.P. 109.93, ELEV. = 827.61' (NAVD88).



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



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

- 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 42" CENTRAL PENN LINE SOUTH
WETLAND CROSSING W-T06-13002
© M.P. 109.96
MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	08/20/15	ELR	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	FH	03/02/15	ISSUED FOR BID:	1" = 50'
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	JM	04/22/15	ISSUED FOR CONSTRUCTION:	REVISION: 1

APPROVED BY: MJH

DATE: 06/08/15

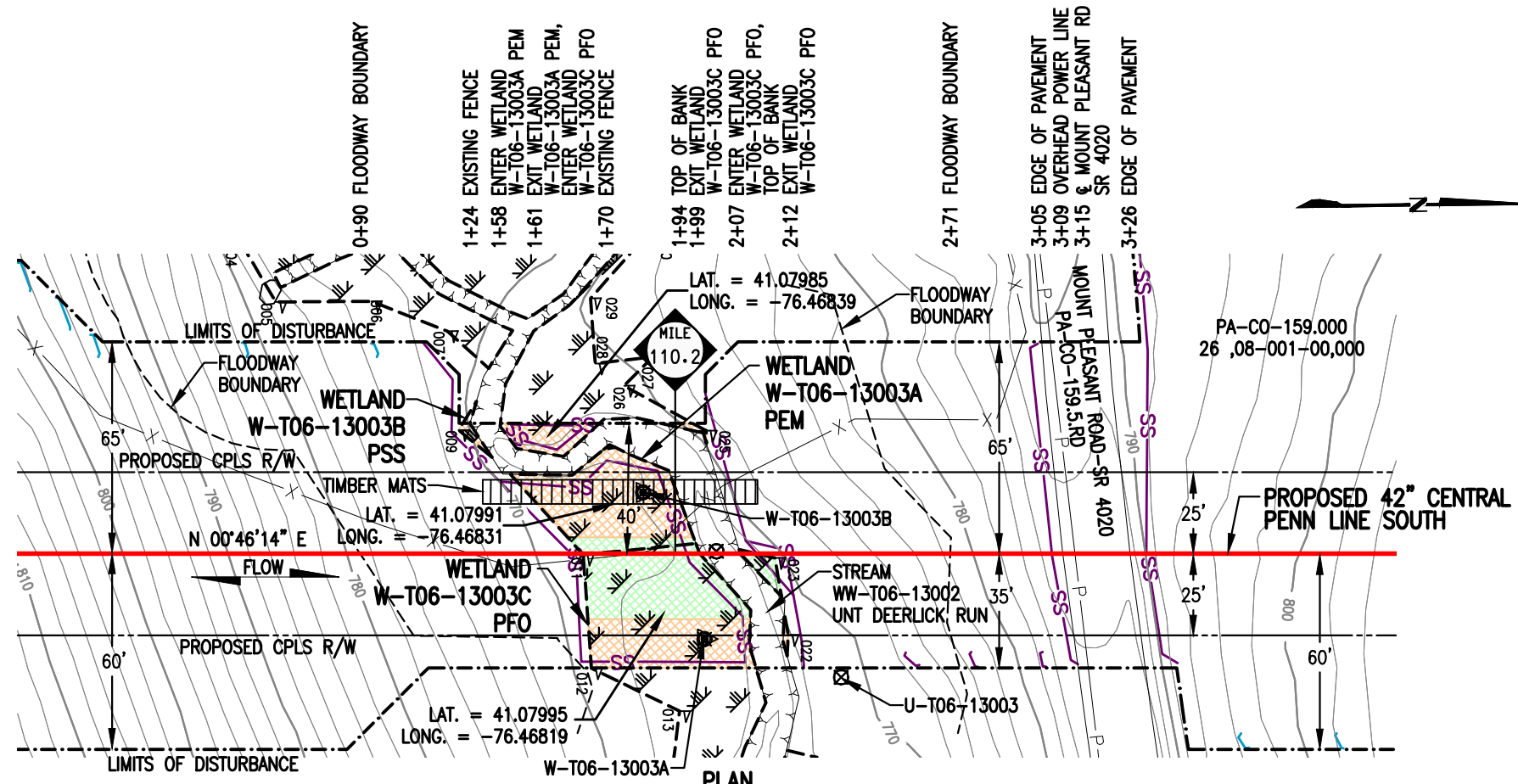
W.O. NUMBER: 1161503

24-1600-70-20-A/109.95-01 SHEET 1

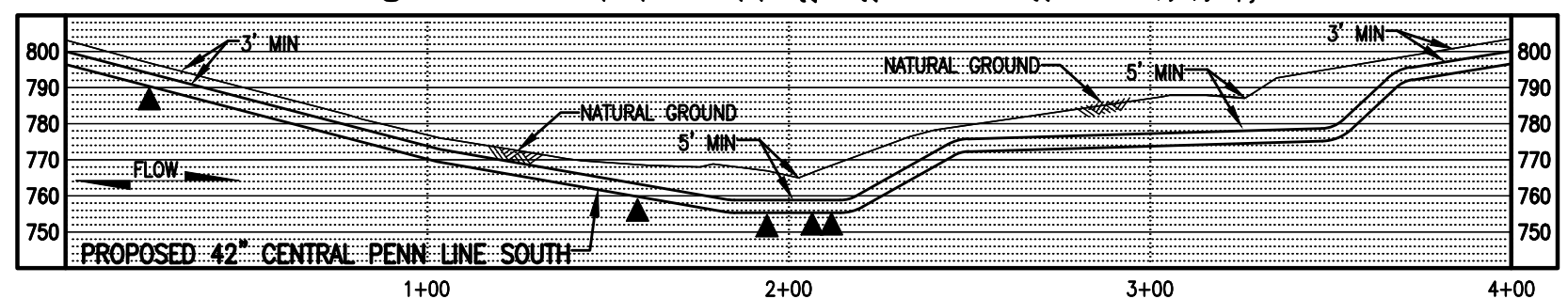
OF 1

9/27/2016 jibeast

K:\103643-CPLS\Mapping\Wetlands\CPLS_PAN\Revised 105\24-1600-70-20-A_109.95-01.dwg



PLAN
SCALE: 1" = 50'



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

WETLAND DISTURBANCE:

WETLAND W-T06-13003A (EV)	ACRE
TEMPORARY DISTURBANCE	0.0227
PERMANENT DISTURBANCE	0.0031
TOTAL DISTURBANCE	0.0258

WETLAND W-T06-13003B (EV)	ACRE
TEMPORARY DISTURBANCE	0.0058
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0058

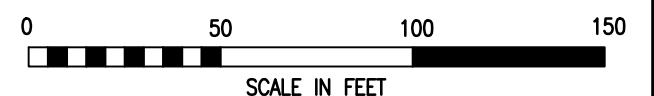
WETLAND W-T06-13003C (EV)	ACRE
TEMPORARY DISTURBANCE	0.0173
PERMANENT DISTURBANCE	0.0229
TOTAL DISTURBANCE	0.0402

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 5817+69 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

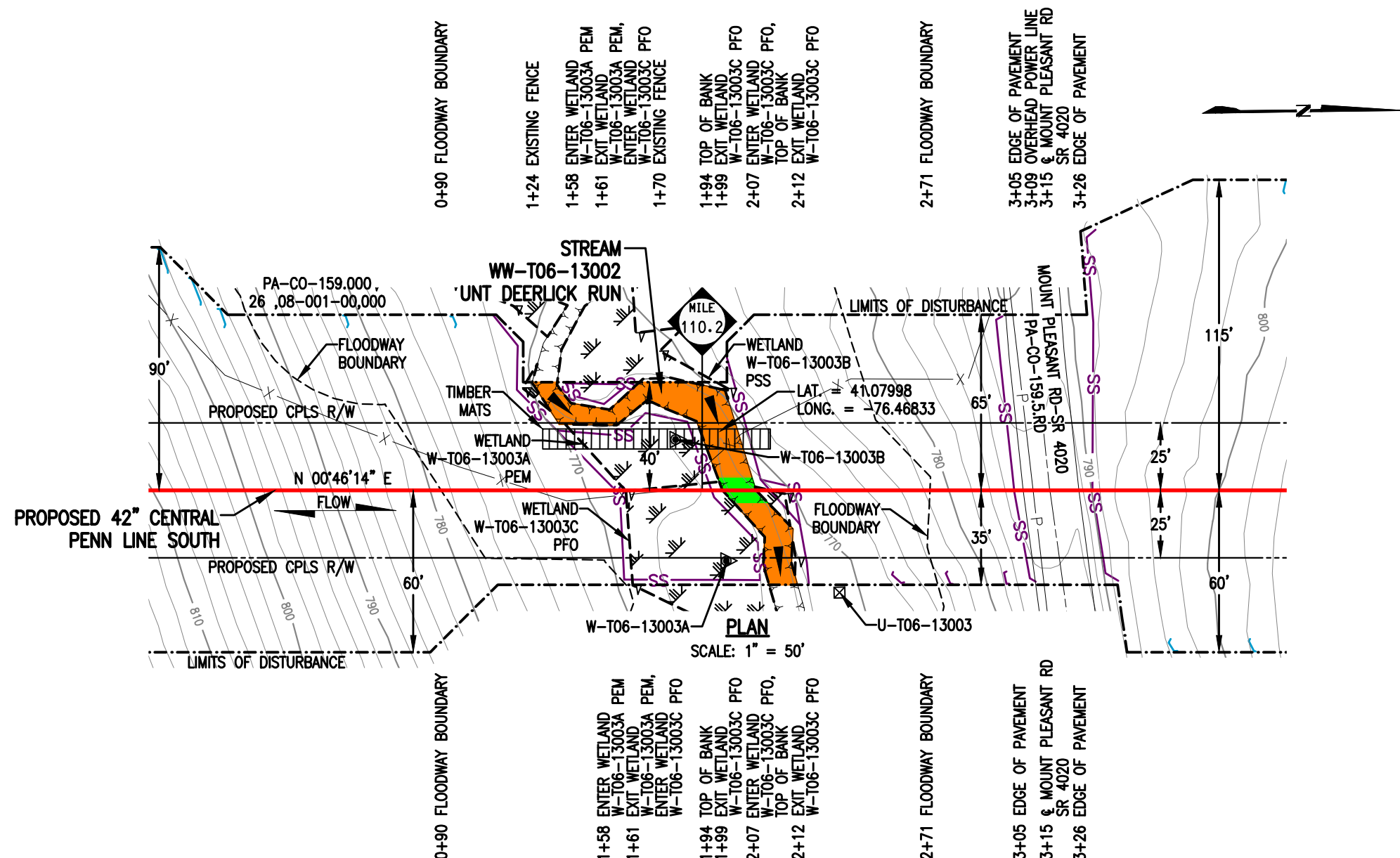
- T.B.M. SURVEY CONTROL POINT - 20' LT. OF M.P. 110.20, ELEV. = 767.71' (NAVD88).



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 CROSSINGS W-T06-13003A AND W-T06-13003C @ M.P. 110.20, W-T06-13003B @ M.P. 110.19 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/20/15	ELR	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: FH		DATE: 04/24/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: CLR		DATE: 06/04/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/110.19-01	SHEET 1	
W.O. NUMBER: 1161503		DATE: 9/27/2016	OF 1		



STREAM DISTURBANCE:

STREAM WW-T06-13002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0299
PERMANENT STREAM DISTURBANCE	0.0029
TOTAL STREAM DISTURBANCE	0.0328
TEMPORARY FLOODWAY DISTURBANCE	0.2418
PERMANENT FLOODWAY DISTURBANCE	0.0291
TOTAL FLOODWAY DISTURBANCE	0.2709

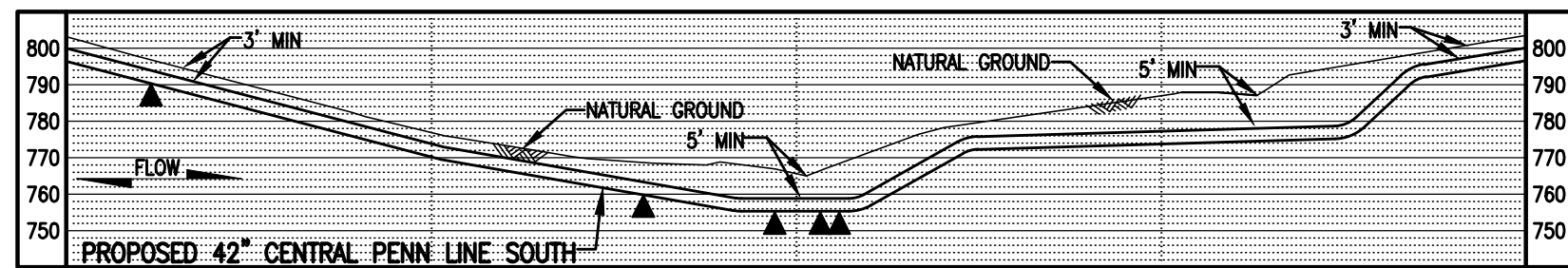
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	12.46
STREAM LENGTH	135.13

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 5817+69 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 20' LT. OF M.P. 110.20, ELEV. = 767.71' (NAVD88).



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



LEGEND

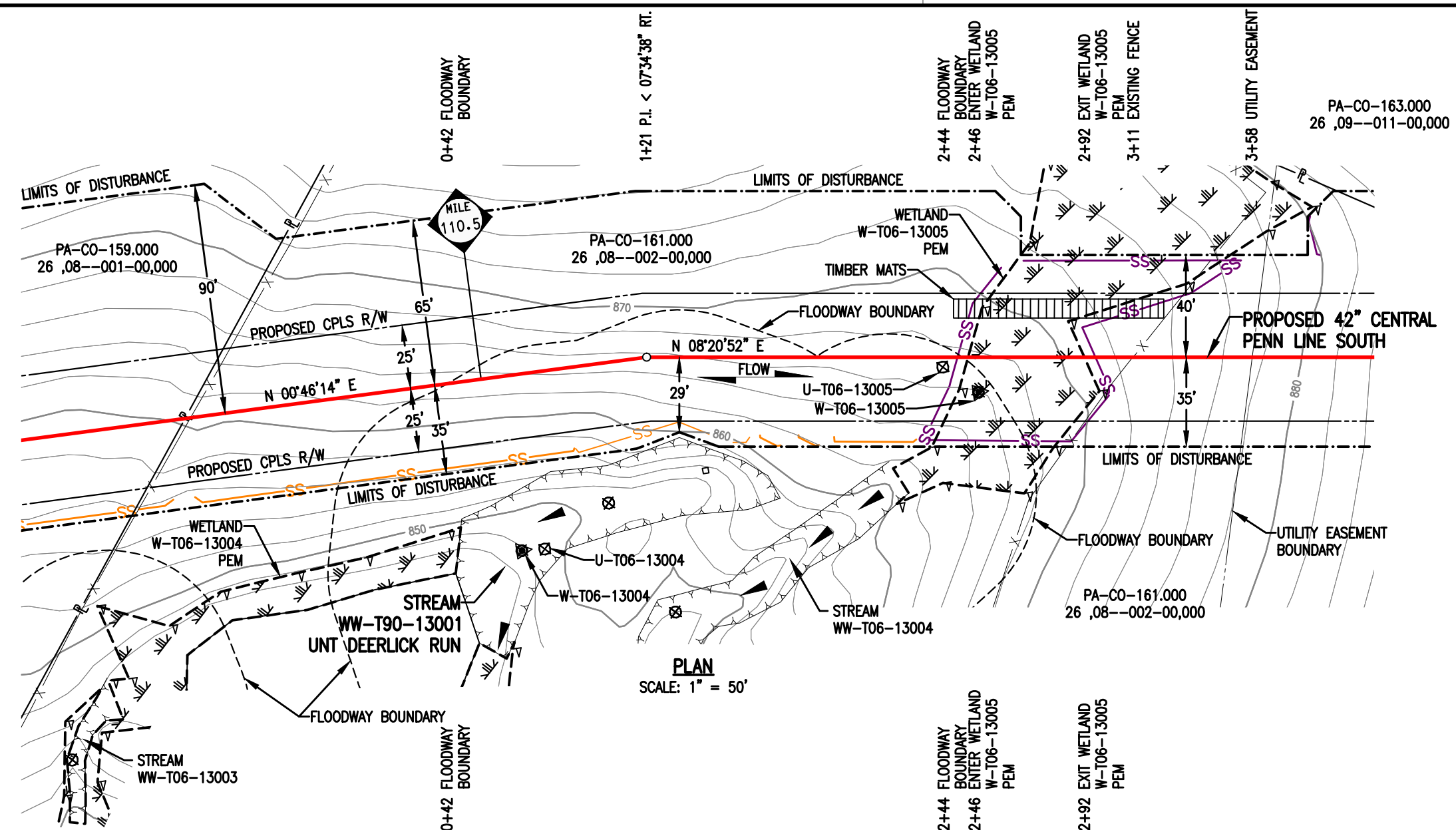
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLS R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- P — EXISTING POWER LINE
- X — EXISTING FENCE

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 — 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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T06-13002 © M.P. 110.20 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.		REVISION DESCRIPTION			
0	08/20/15	LL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	10/25/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: TL		DATE: 05/01/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: CLR		DATE: 06/05/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 06/08/15	DRAWING NUMBER:	24-1600-70-09-A/110.20-01 SHEET 1	
DRAWING NUMBER: 854m		10/3/2016	OF 1		



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T90-13001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.1814
PERMANENT FLOODWAY DISTURBANCE	0.0454
TOTAL FLOODWAY DISTURBANCE	0.2268

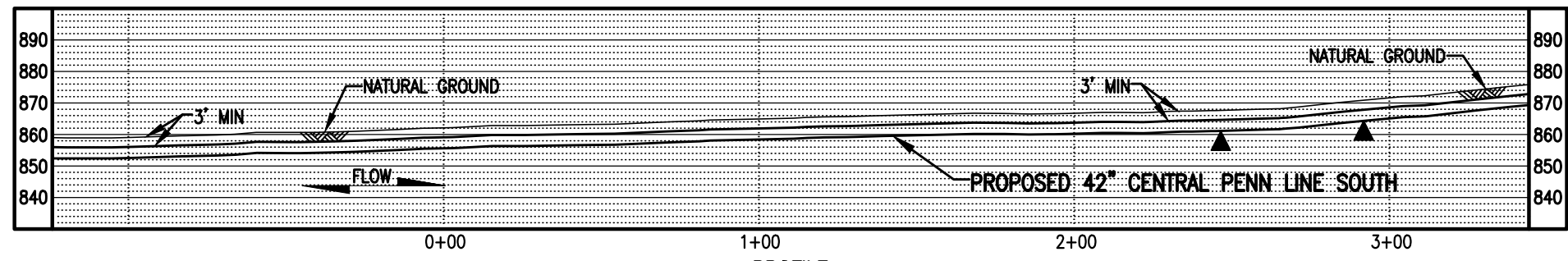
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE. STREAM WILL BE MATTED DURING CONSTRUCTION.
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 5834+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 28' RT. OF M.P. 110.53, ELEV. = 863.67' (NAVD88).



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



LEGEND

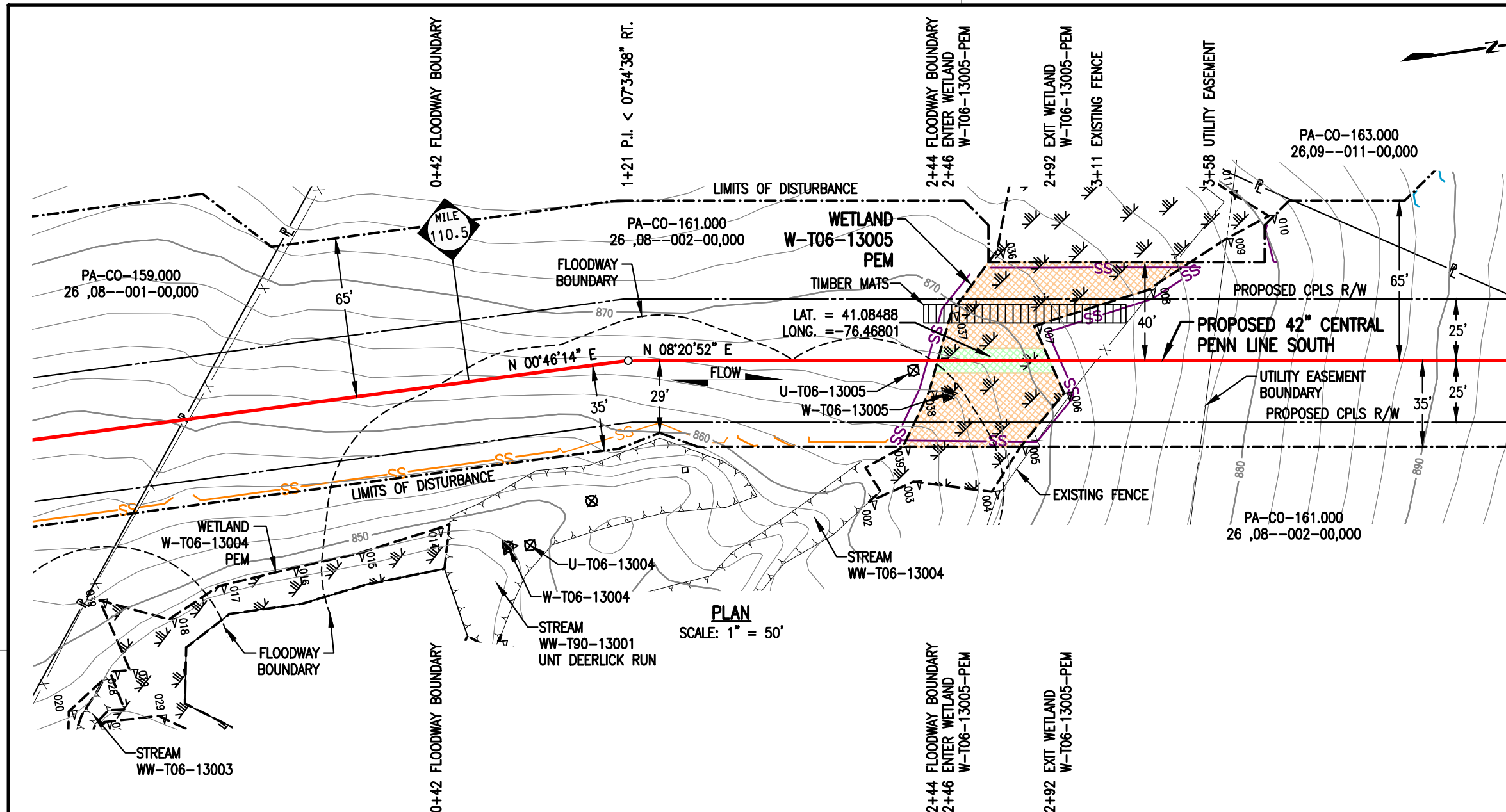
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT



DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/25/16	KB	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-T90-13001
 © M.P. 110.51
MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: TL	DATE: 05/01/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 06/06/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/110.53-01	SHEET 1
W.O. NO.: 1161503		10/21/2016	OF 1



WETLAND DISTURBANCE:

WETLAND W-T06-13005 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0822
PERMANENT DISTURBANCE	0.0104
TOTAL DISTURBANCE	0.0926

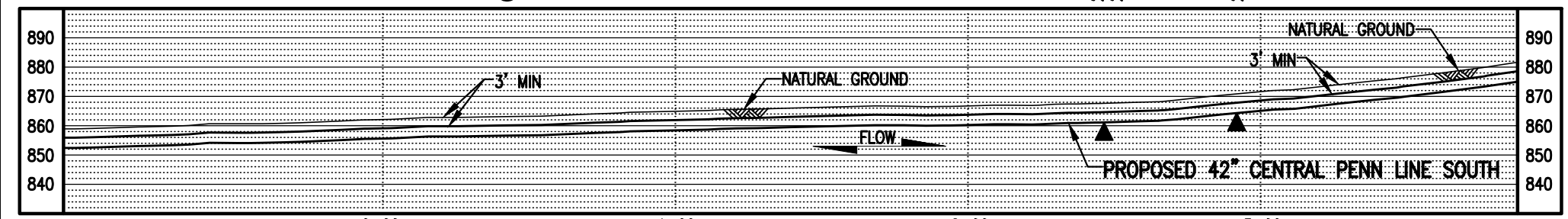
PLAN
SCALE: 1" = 50'

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 5834+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 28' RT. OF M.P. 110.53, ELEV. = 863.67' (NAVD88).



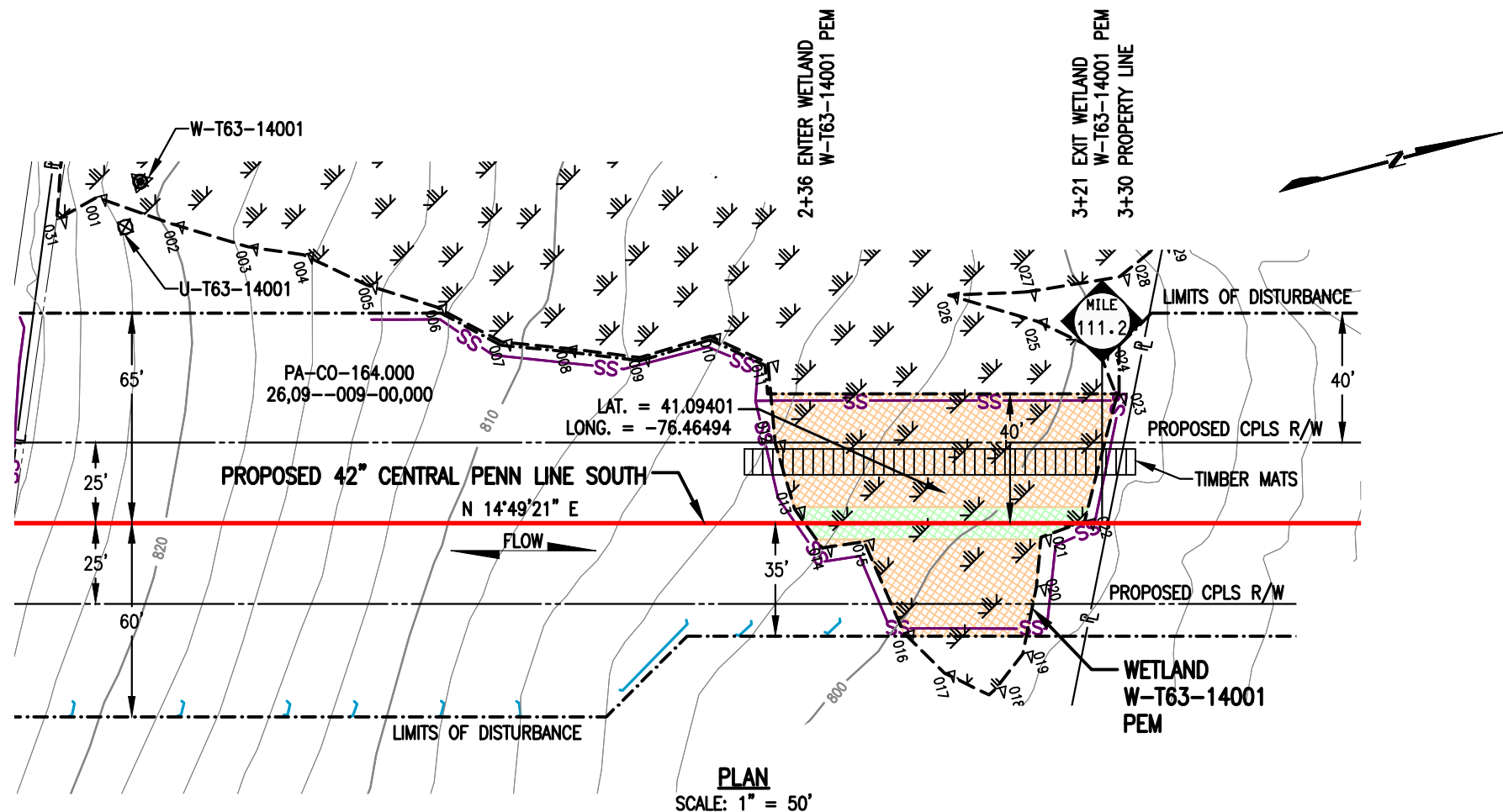
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



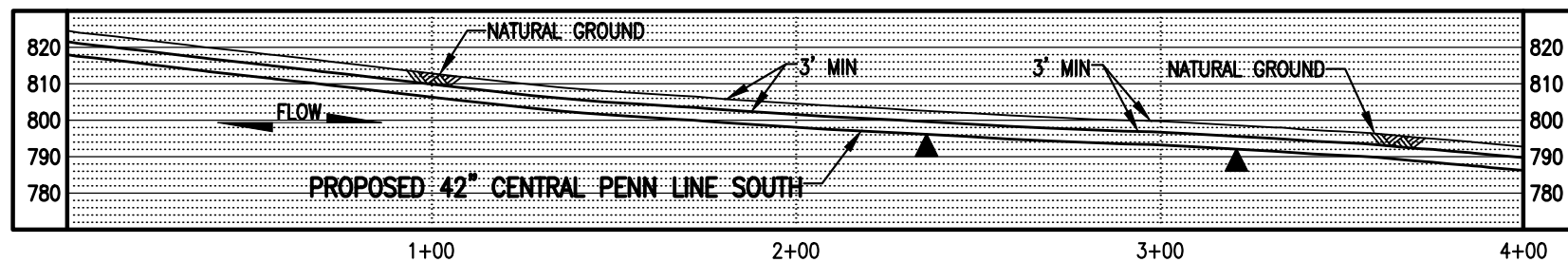
LEGEND

	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-T06-13005 © M.P. 110.54 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 04/24/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	ELR	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 06/04/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/110.53-01	SHEET 1
W.O. NO. 1161503		DRAWN BY: FH		DATE: 04/24/15		ISSUED FOR BID:		SCALE: 1" = 50'		



PLAN
SCALE: 1" = 50'



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

WETLAND DISTURBANCE:

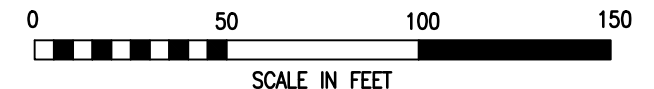
WETLAND W-T63-14001	ACRE
TEMPORARY DISTURBANCE	0.1131
PERMANENT DISTURBANCE	0.0190
TOTAL DISTURBANCE	0.1321

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 5869+08 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 59' LT. OF M.P. 111.14, ELEV. = 826.80' (NAVD88).



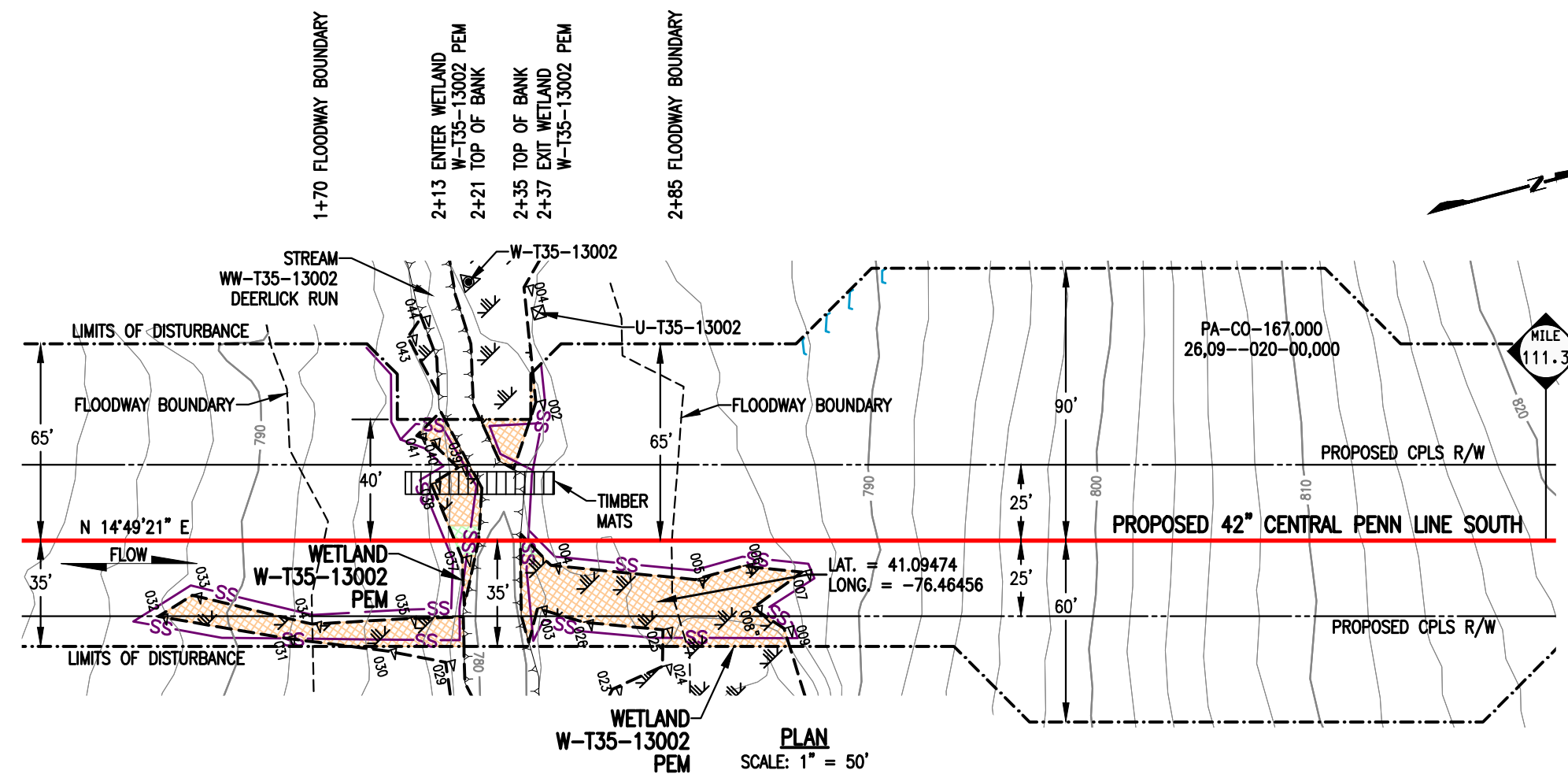
LEGEND

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-T63-14001 © M.P. 111.19 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH DATE: 06/08/16 ISSUED FOR BID: SCALE: 1" = 50' CHECKED BY: ML DATE: 06/08/16 ISSUED FOR CONSTRUCTION: REVISION: 0 APPROVED BY: MJH DATE: 06/08/16 DRAWING NUMBER: 24-1600-70-20-A/111.12-01 SHEET 1 WO: 1161503 3:47pm 10/6/2016 jibeast K:\103643-CPLS\Mapping\Wetlands\CPLS_PAN\Revised 105\24-1600-70-20-A_111.12-01.dwg OF 1

WETLAND DISTURBANCE:

WETLAND W-T35-13002 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0715
PERMANENT DISTURBANCE	0.0023
TOTAL DISTURBANCE	0.0738



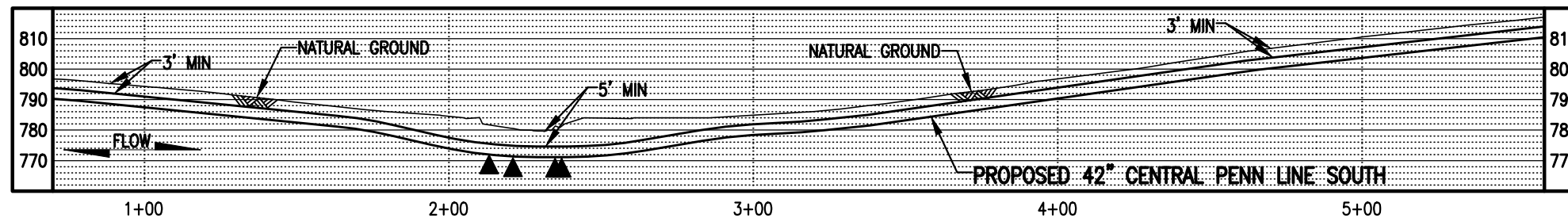
PLAN
SCALE: 1" = 50'

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 5871+90 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 80' LT. OF M.P. 111.23, ELEV. = 780.02' (NAVD88).



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



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

- 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
- Y — Y — 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-T35-13002
© M.P. 111.24
MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	FH	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
2	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

DRAWN BY: FH

CHECKED BY: ML

APPROVED BY: MJH

IWO: 1161503

DATE: 06/08/15

DATE: 06/08/15

DATE: 06/08/15

ISSUED FOR BID: _____

ISSUED FOR CONSTRUCTION: _____

DRAWING NUMBER: **24-1600-70-20-A/111.22-01**

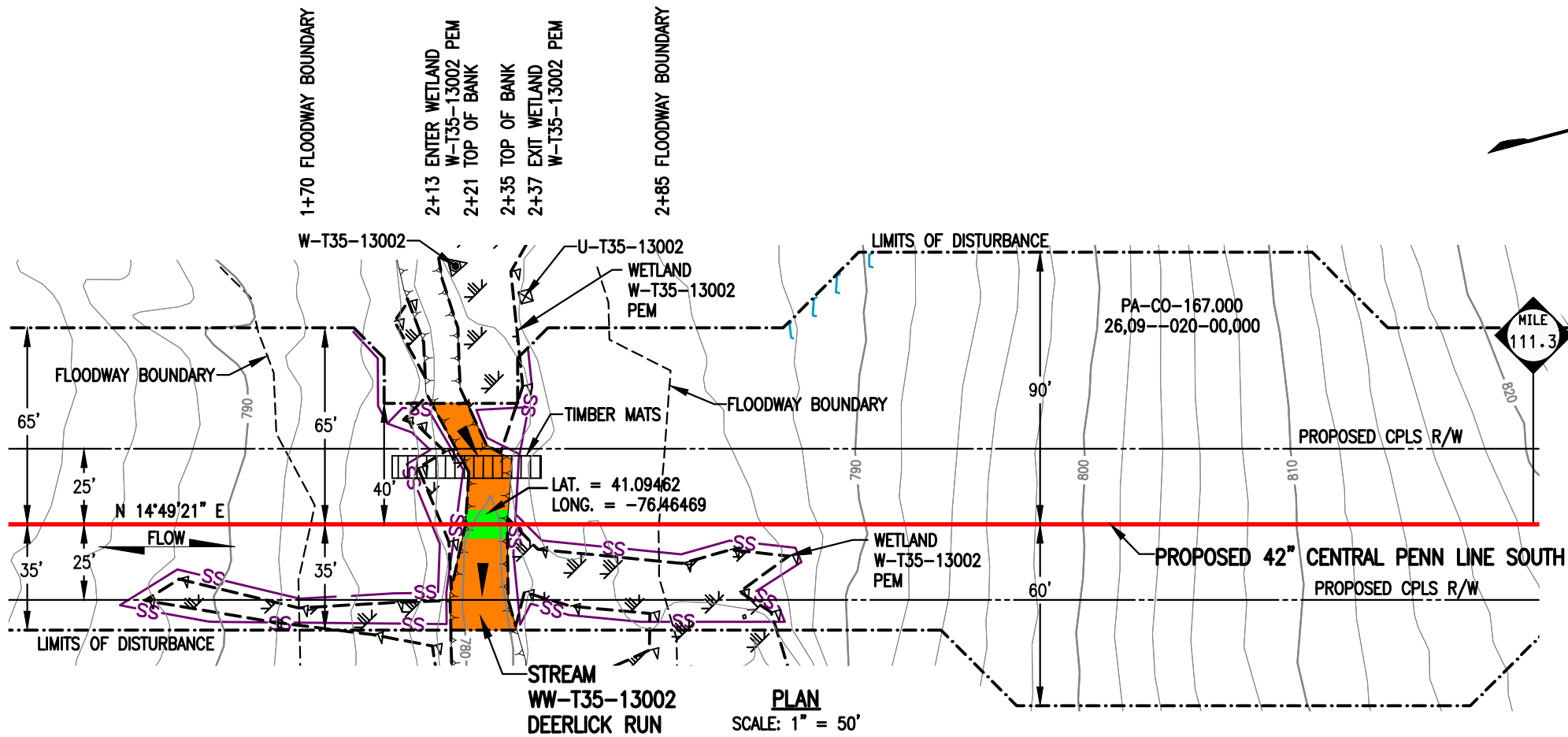
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REVISION: 2

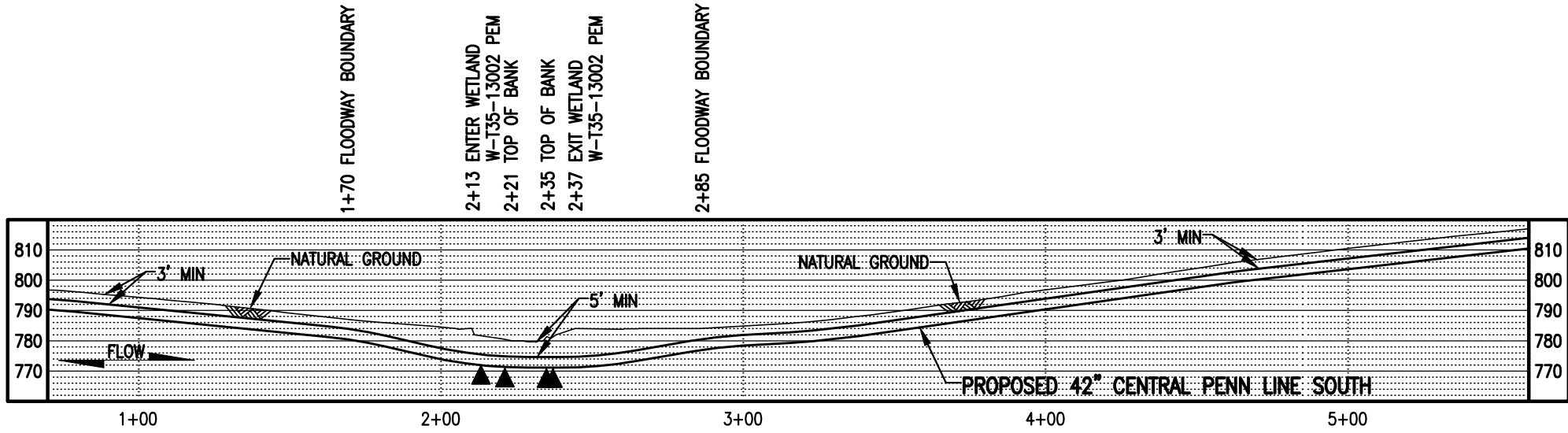
SHEET 1 OF 1

STREAM DISTURBANCE:

STREAM WW-T35-13002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0231
PERMANENT STREAM DISTURBANCE	0.0032
TOTAL STREAM DISTURBANCE	0.0263
TEMPORARY FLOODWAY DISTURBANCE	0.1581
PERMANENT FLOODWAY DISTURBANCE	0.0209
TOTAL FLOODWAY DISTURBANCE	0.1790
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	13.80
STREAM LENGTH	77.08



PLAN
SCALE: 1" = 50'



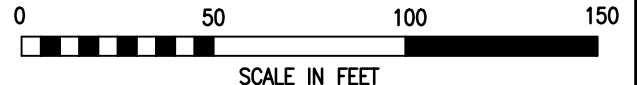
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T35-13002 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 5871+90 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 80' LT. OF M.P. 111.23, ELEV. = 780.02' (NAVD88).



LEGEND

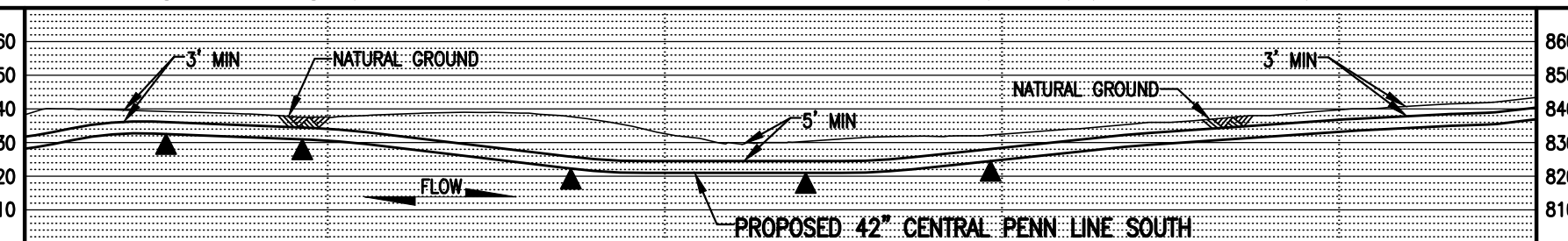
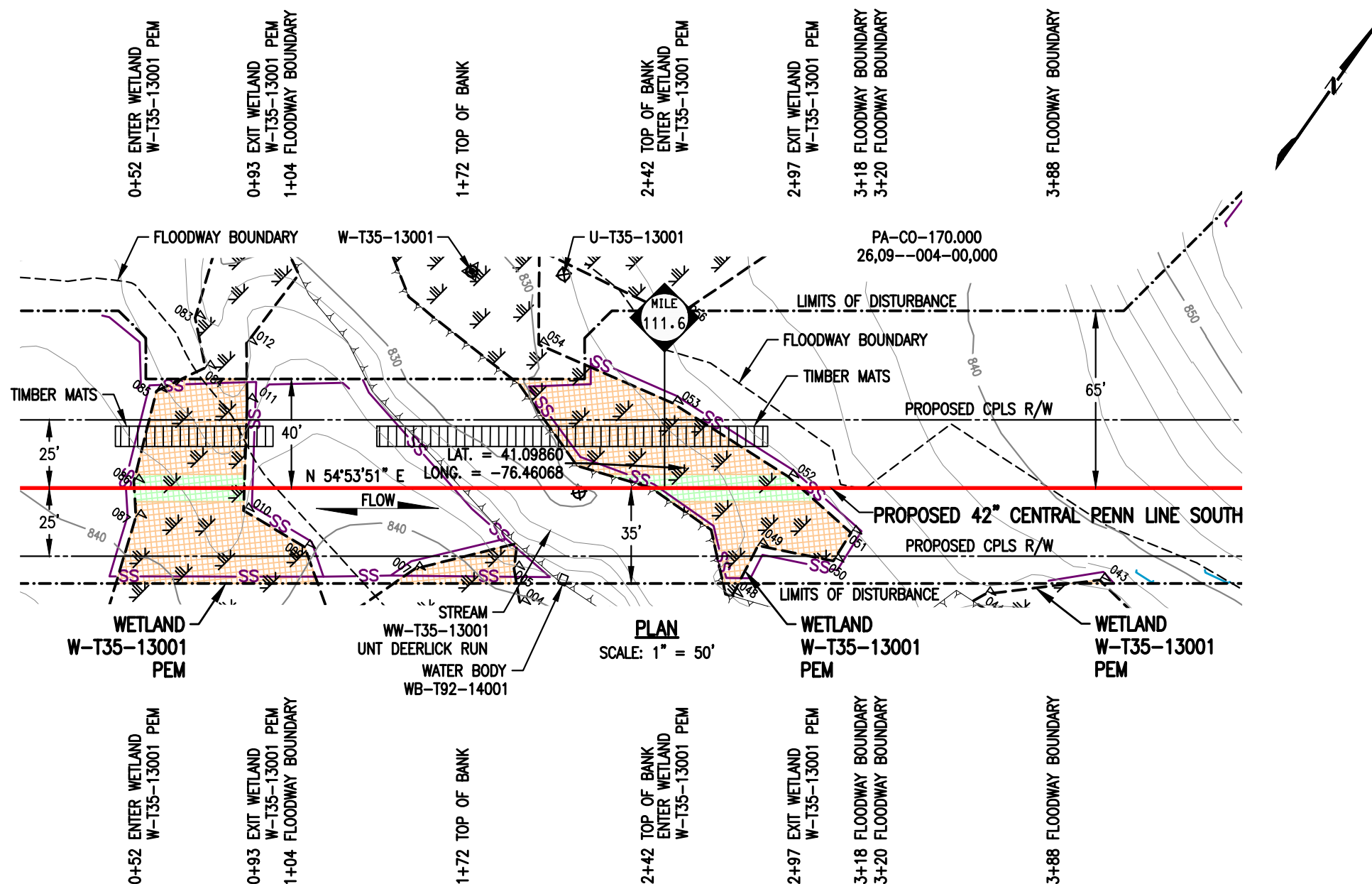
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		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-T35-13002 © M.P. 111.23 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL CHECKED BY: ML APPROVED BY: MJH IW: 1161503
0	08/20/15	THL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	DATE: 06/08/15 DATE: 06/08/15 DATE: 06/08/15
1	10/25/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	ISSUED FOR CONSTRUCTION: DRAWING NUMBER: 24-1600-70-09-A/111.23-01 SCALE: 1" = 50' REVISION: 1
				SHEET 1 OF 1 947am 10/24/2016 nll K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_111.23-01.dwg			

WETLAND DISTURBANCE:

WETLAND W-T35-13001 (EV)	ACRE
TEMPORARY DISTURBANCE	0.1495
PERMANENT DISTURBANCE	0.0224
TOTAL DISTURBANCE	0.1719



NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 5891+02 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 37' LT. OF M.P. 111.65, ELEV. = 860.37' (NAVD88).



LEGEND

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

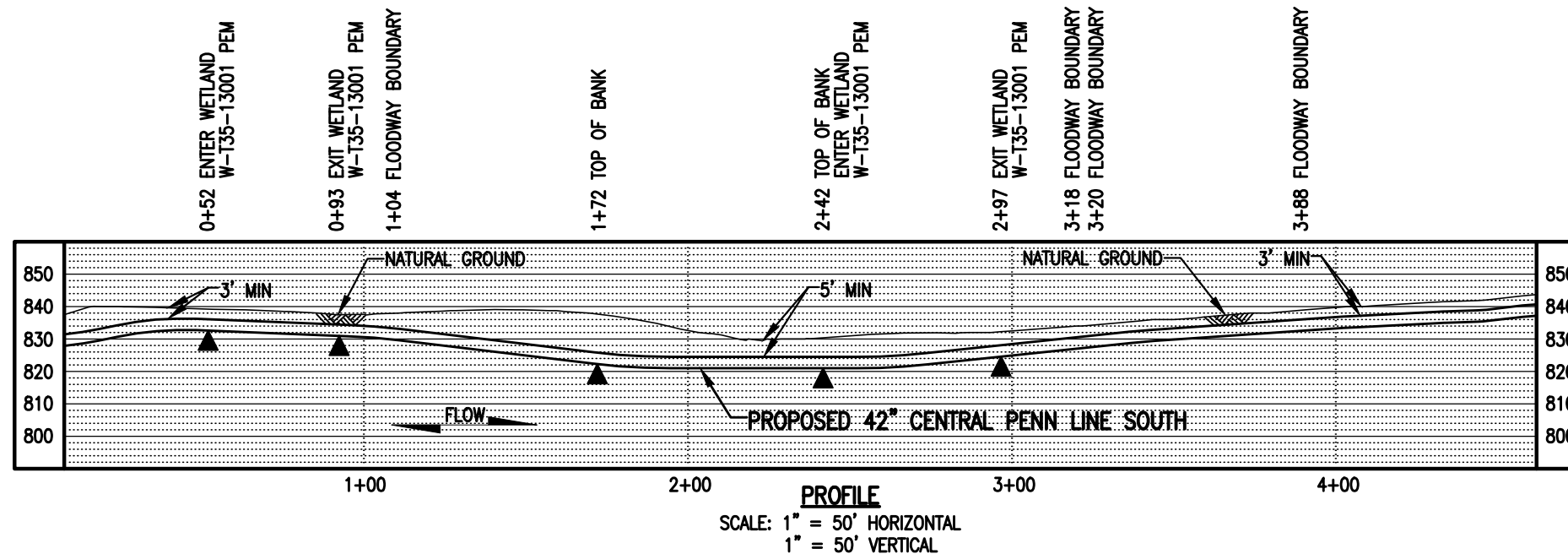
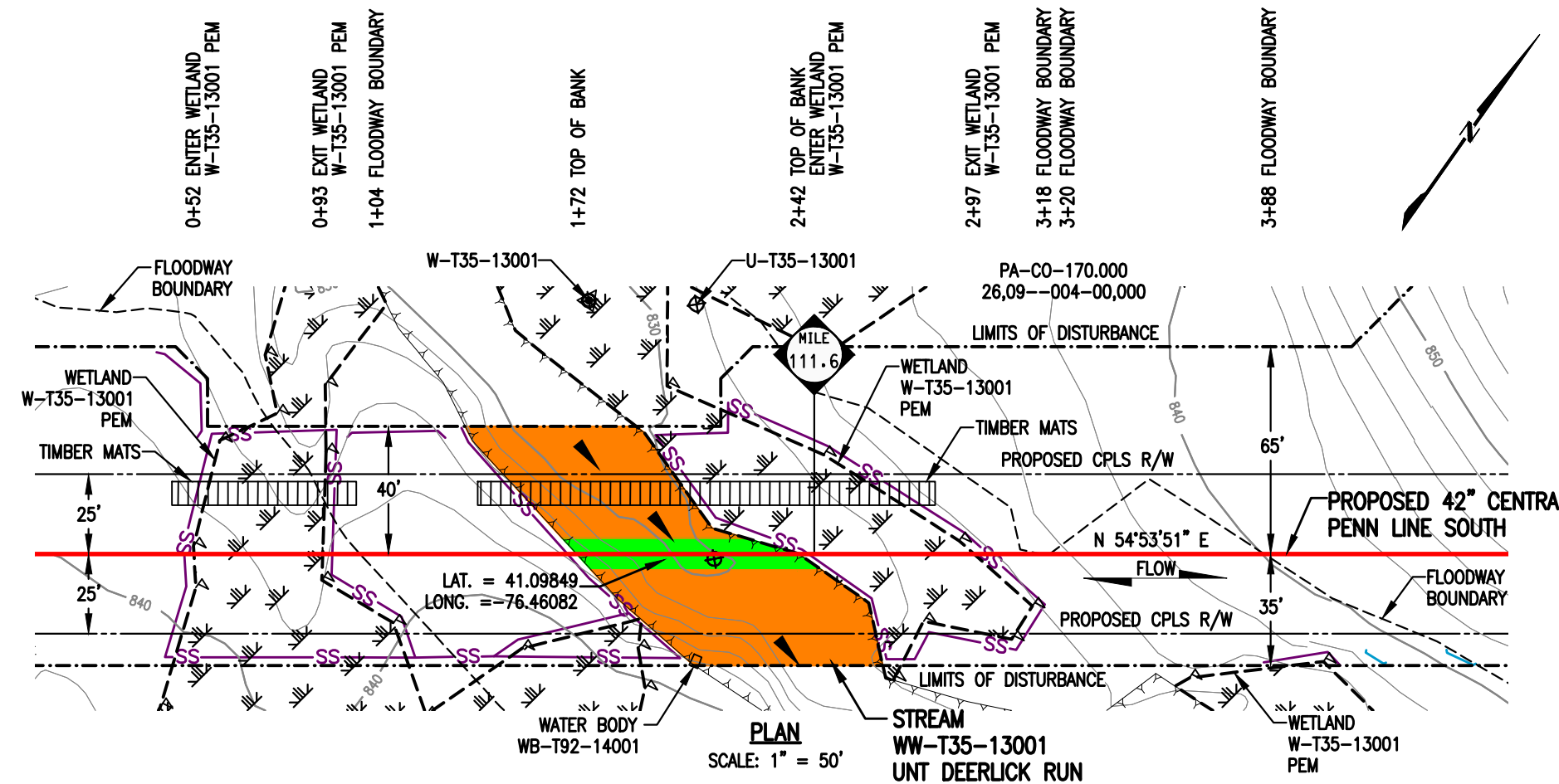
- SS — 12" SEDIMENT BARRIER
- SS — 18" SEDIMENT BARRIER
- SS — 24" SEDIMENT BARRIER
- SS — 32" SEDIMENT BARRIER
- Y — TOP OF BANK
- ▨ PERMANENT WETLAND IMPACT
- ▨ TEMPORARY WETLAND IMPACT

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-T35-13001 © M.P. 111.60 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 06/08/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	FH	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/08/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/111.57-01	SHEET 1
				10:31am		jlibeast		K:\103643-CPLS\Mapping\Wetlands\CPLS_PAN\Revised_105\24-1600-70-20-A_111.57-01.dwg		

STREAM DISTURBANCE:

STREAM WW-T35-13001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0913
PERMANENT STREAM DISTURBANCE	0.0155
TOTAL STREAM DISTURBANCE	0.1068
TEMPORARY FLOODWAY DISTURBANCE	0.2264
PERMANENT FLOODWAY DISTURBANCE	0.0351
TOTAL FLOODWAY DISTURBANCE	0.2615

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	69.67
STREAM LENGTH	99.83



GENERAL NOTES:

1. STREAM CROSSING METHOD WW-T35-13001 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 5891+02 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 37' LT. OF M.P. 111.65, ELEV. = 860.37' (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		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

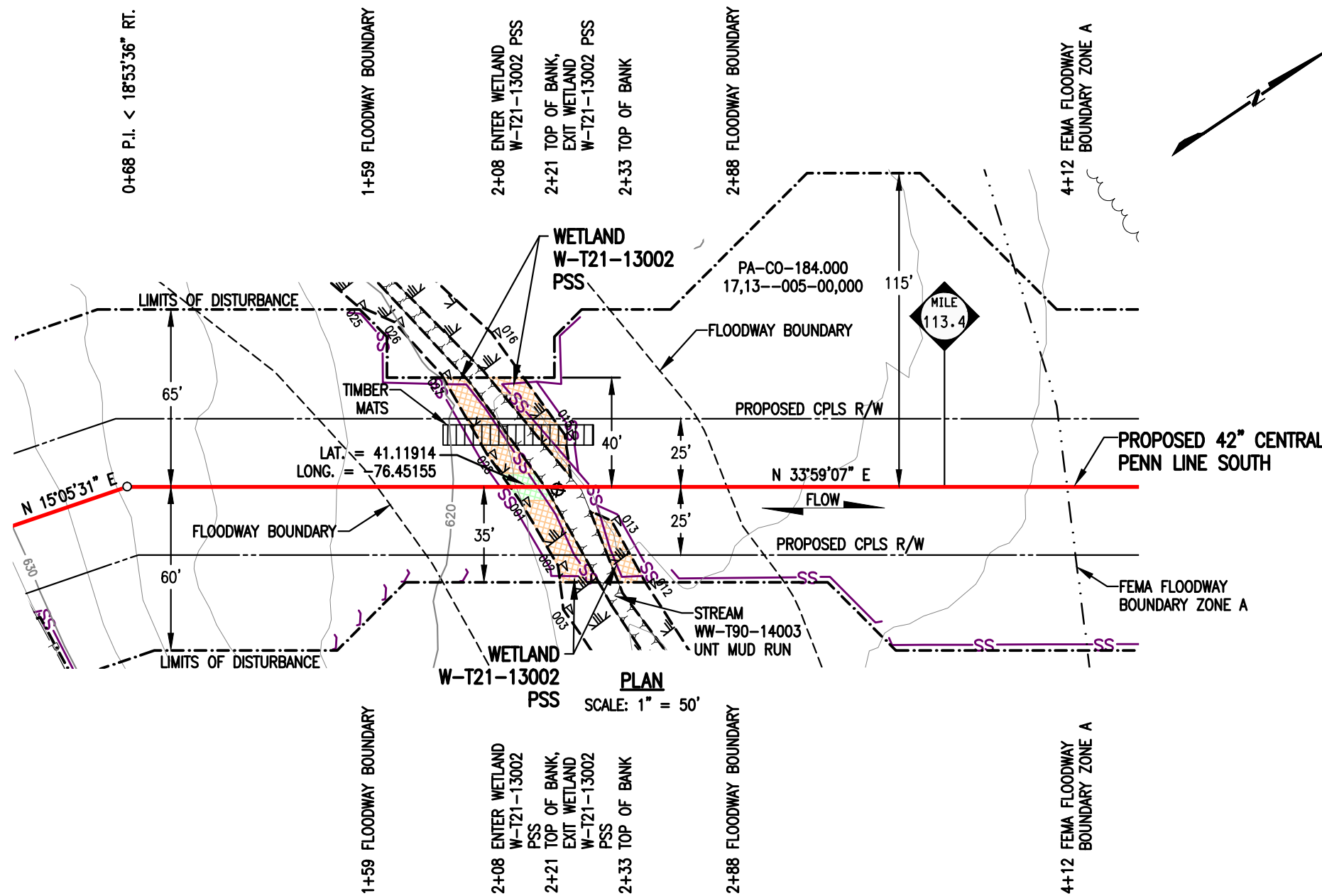
WOOD GROUP MUSTANG, INC.

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-T35-13001 © M.P. 111.59 MOUNT PLEASANT TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	FH	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: FH	DATE: 05/20/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/111.59-01	SHEET 1
							IWO: 1161503		10/3/2016 K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_111.59-01.dwg	OF 1

0+68 P.I. < 18°53'36" RT.

WETLAND DISTURBANCE:

WETLAND W-T21-13002 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0292
PERMANENT DISTURBANCE	0.0029
TOTAL DISTURBANCE	0.0321



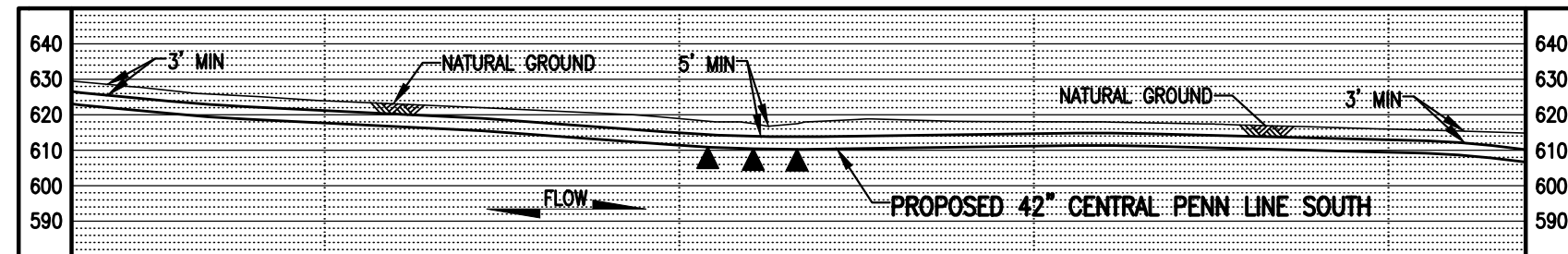
PLAN
SCALE: 1" = 50'

NOTES:

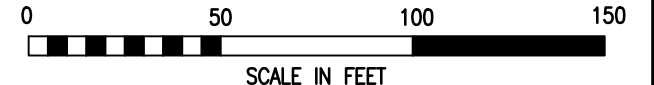
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 5984+84 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 76' LT. OF M.P. 113.45, ELEV. = 616.77' (NAVD88).



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

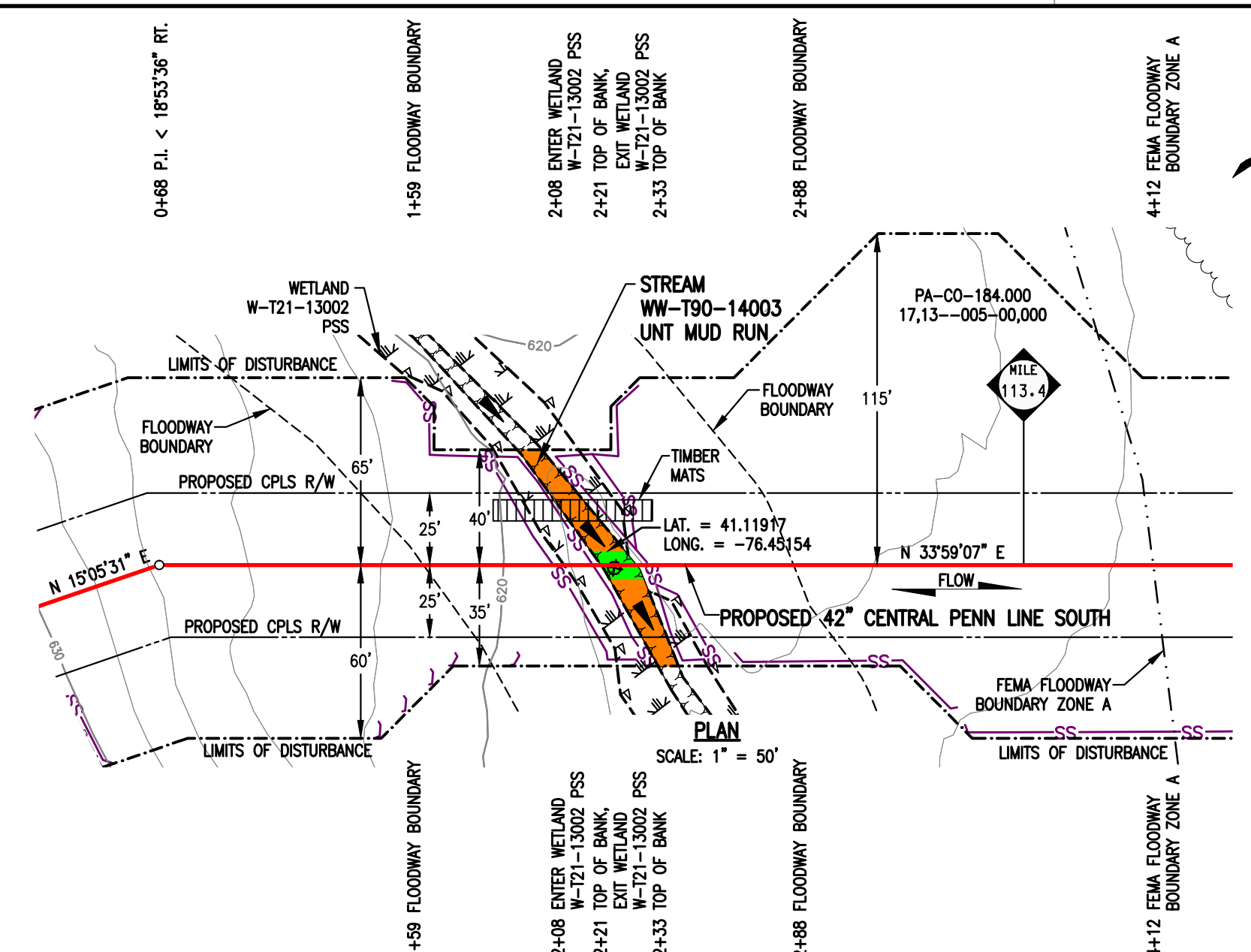


LEGEND

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		<p>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-T21-13002 © M.P. 113.37 GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA</p>						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 06/08/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	FH	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/08/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/113.37-01	SHEET 1
						IW: 1161503		DRAWING NUMBER: 24-1600-70-20-A/113.37-01		OF 1

0+68 P.I. < 18°53'36" RT.



STREAM DISTURBANCE:

STREAM WW-T90-14003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0146
PERMANENT STREAM DISTURBANCE	0.0028
TOTAL STREAM DISTURBANCE	0.0174
TEMPORARY FLOODWAY DISTURBANCE	0.1986
PERMANENT FLOODWAY DISTURBANCE	0.0237
TOTAL FLOODWAY DISTURBANCE	0.2223

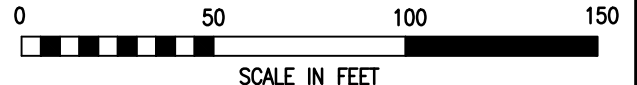
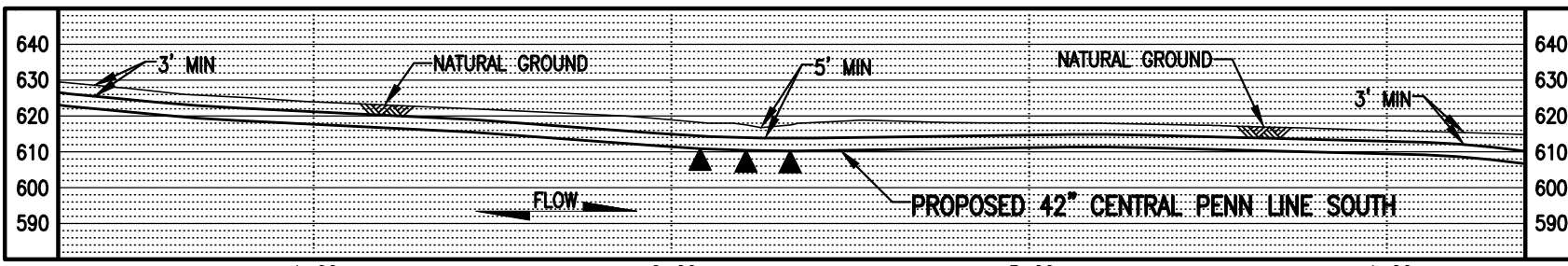
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	12.32
STREAM LENGTH	90.33

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T90-14003 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 5984+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 76' LT. OF M.P. 113.45, ELEV. = 616.77' (NAVD88).



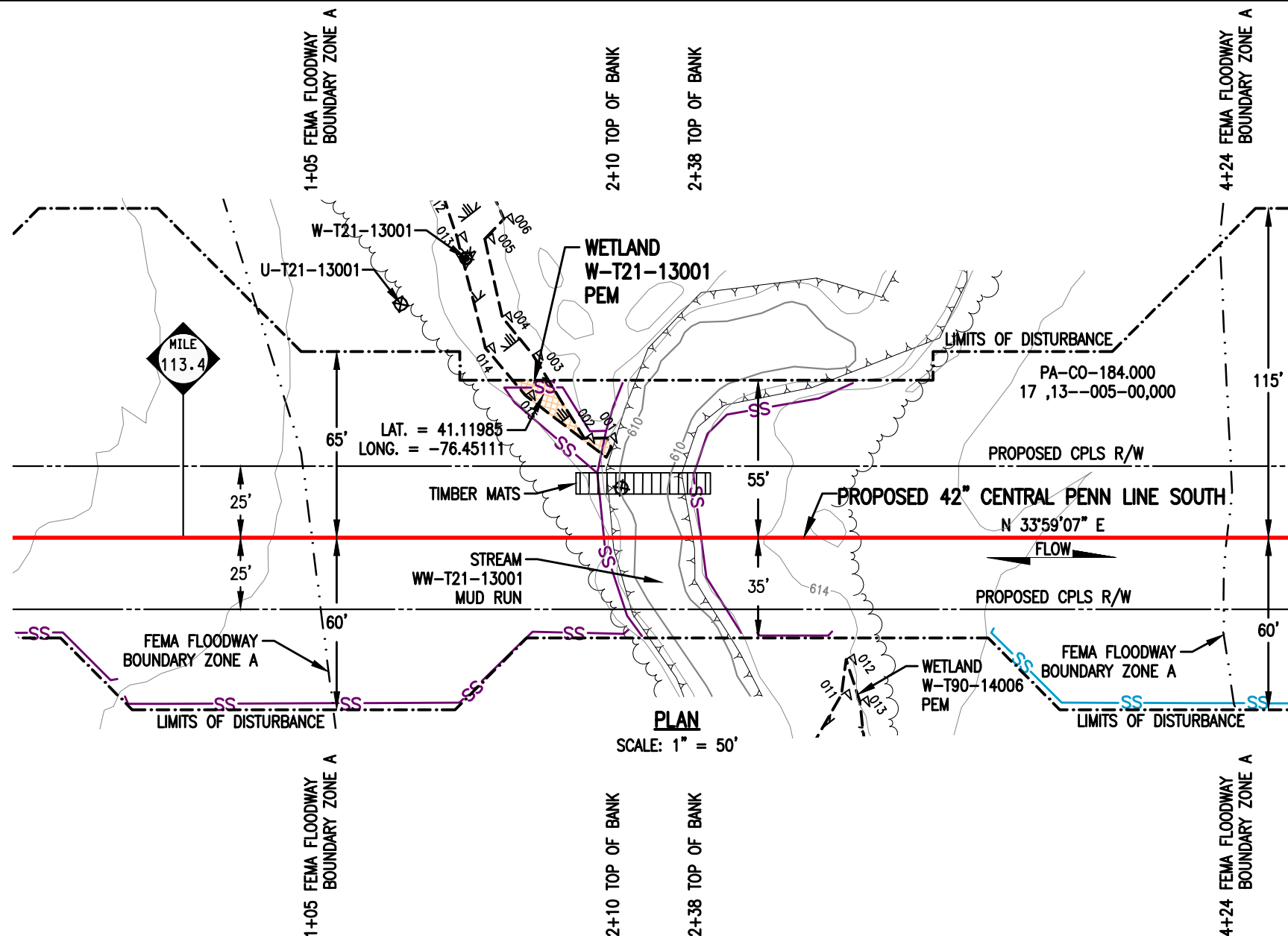
LEGEND

	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-T90-14003 © M.P. 113.37 GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 06/08/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	FH	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/08/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/113.37-01	SHEET 1
				DRAWING NUMBER: 10/3/2016		JLbeast		OF 1		

WETLAND DISTURBANCE:

WETLAND W-T21-13001 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0044
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0044



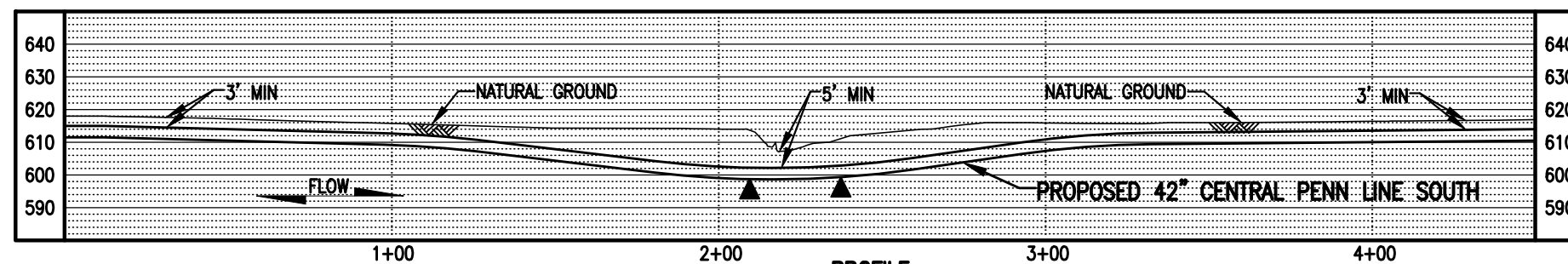
PLAN
SCALE: 1" = 50'

NOTES:

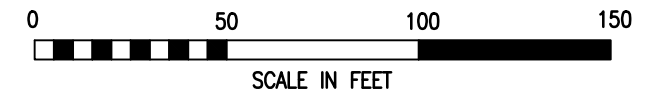
- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 5987+92 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 77' LT. OF M.P. 113.45, ELEV. = 616.77' (NAVD88).

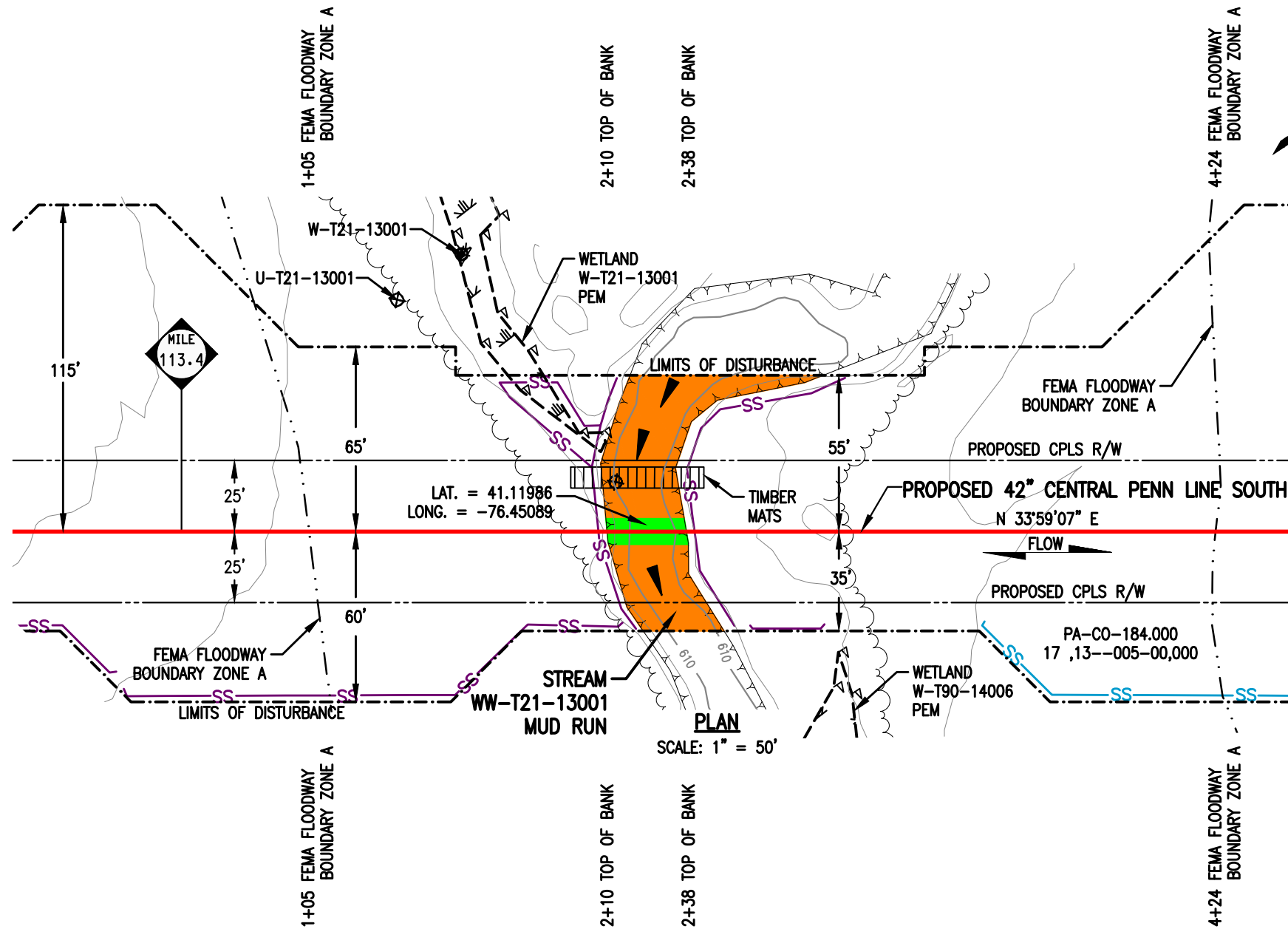


PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND		WOOD GROUP MUSTANG, INC.	
PROPOSED 42" CENTRAL PENN LINE SOUTH	WETLAND FLAGS	12" SEDIMENT BARRIER	
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 WETLAND IMPACT	
FOREIGN PIPELINE	WATERBODY	TEMPORARY WETLAND IMPACT	
WETLAND AREA	TREE LINE		
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-T21-13001 © M.P. 113.42 GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	08/20/15	AT	ISSUED FOR PAPEP 105 PERMIT	1161503	CLR MJH
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: AO		DATE: 06/01/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ML		DATE: 06/01/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/113.43-01	SHEET 1	
WO: 1161503		10/7/2016	jibeast		OF 1



STREAM DISTURBANCE:

STREAM WW-T21-13001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0557
PERMANENT STREAM DISTURBANCE	0.0064
TOTAL STREAM DISTURBANCE	0.0621
TEMPORARY FLOODWAY DISTURBANCE	0.6618
PERMANENT FLOODWAY DISTURBANCE	0.0670
TOTAL FLOODWAY DISTURBANCE	0.7288

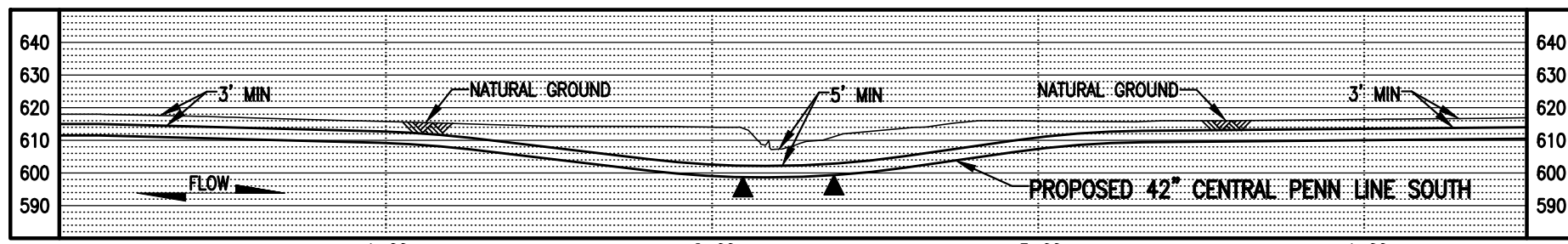
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	27.92
STREAM LENGTH	94.24

GENERAL NOTES:

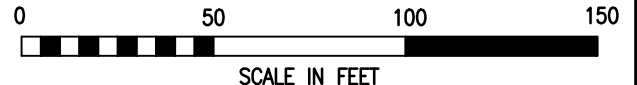
1. STREAM CROSSING METHOD WW-T21-13001 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 5987+92 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 77' LT. OF M.P. 113.45, ELEV. = 616.77' (NAVD88).



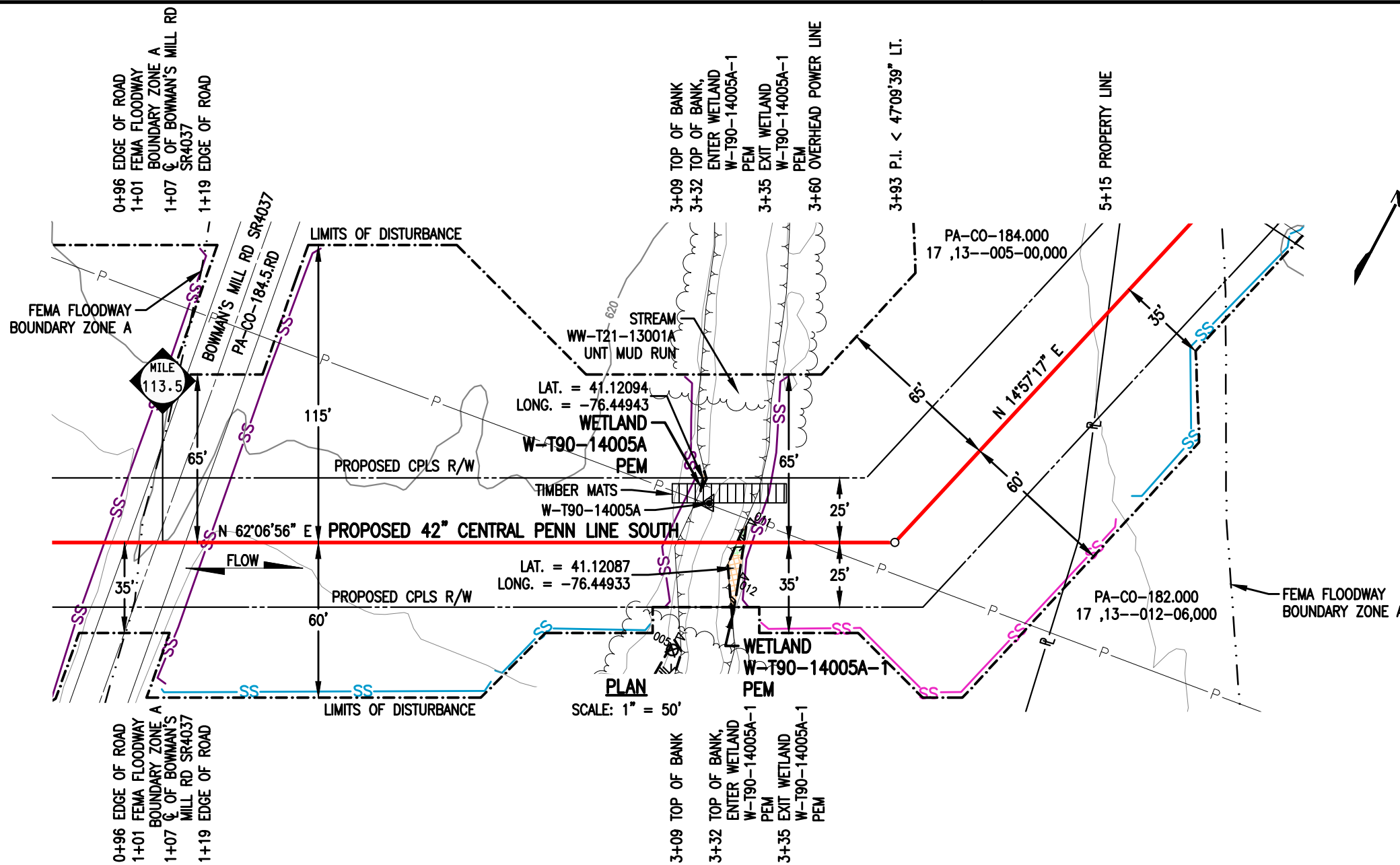
PROFILE
SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



LEGEND

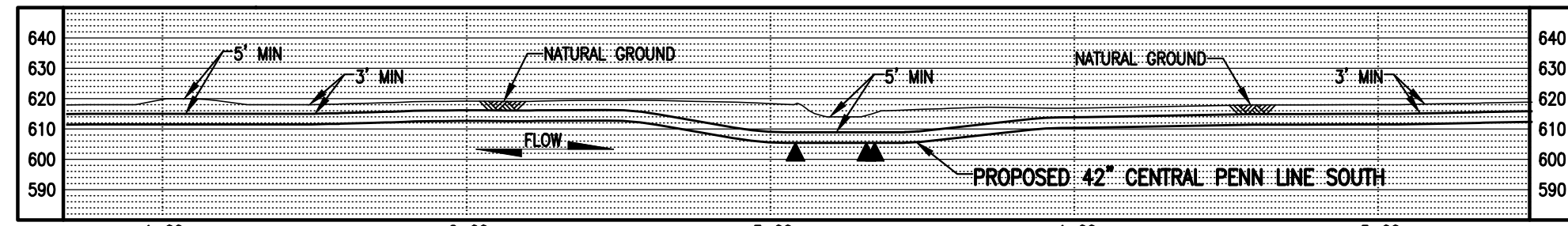
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		WOOD GROUP MUSTANG, INC.
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLS R/W		WELL POINT		32" SEDIMENT 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-T21-13001						
				M.P. 113.43						
				GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
				Williams						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	AT	ISSUED FOR PAPEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: JM	DATE: 06/08/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/113.43-01	SHEET 1
2	10/25/16	AD	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503		9499m 10/25/2016 oIdumog	OF 1



WETLAND DISTURBANCE:

WETLAND W-T90-14005A/ W-T90-14005A-1 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0017
PERMANENT DISTURBANCE	0.0006
TOTAL DISTURBANCE	0.0023



NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 5992+70 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 77' LT. OF M.P. 113.45, ELEV. = 616.77' (NAVD88).



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

- 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
- Y — Y — 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 CROSSINGS W-T90-14005A/
W-T90-14005A-1 @ M.P. 113.53**
GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

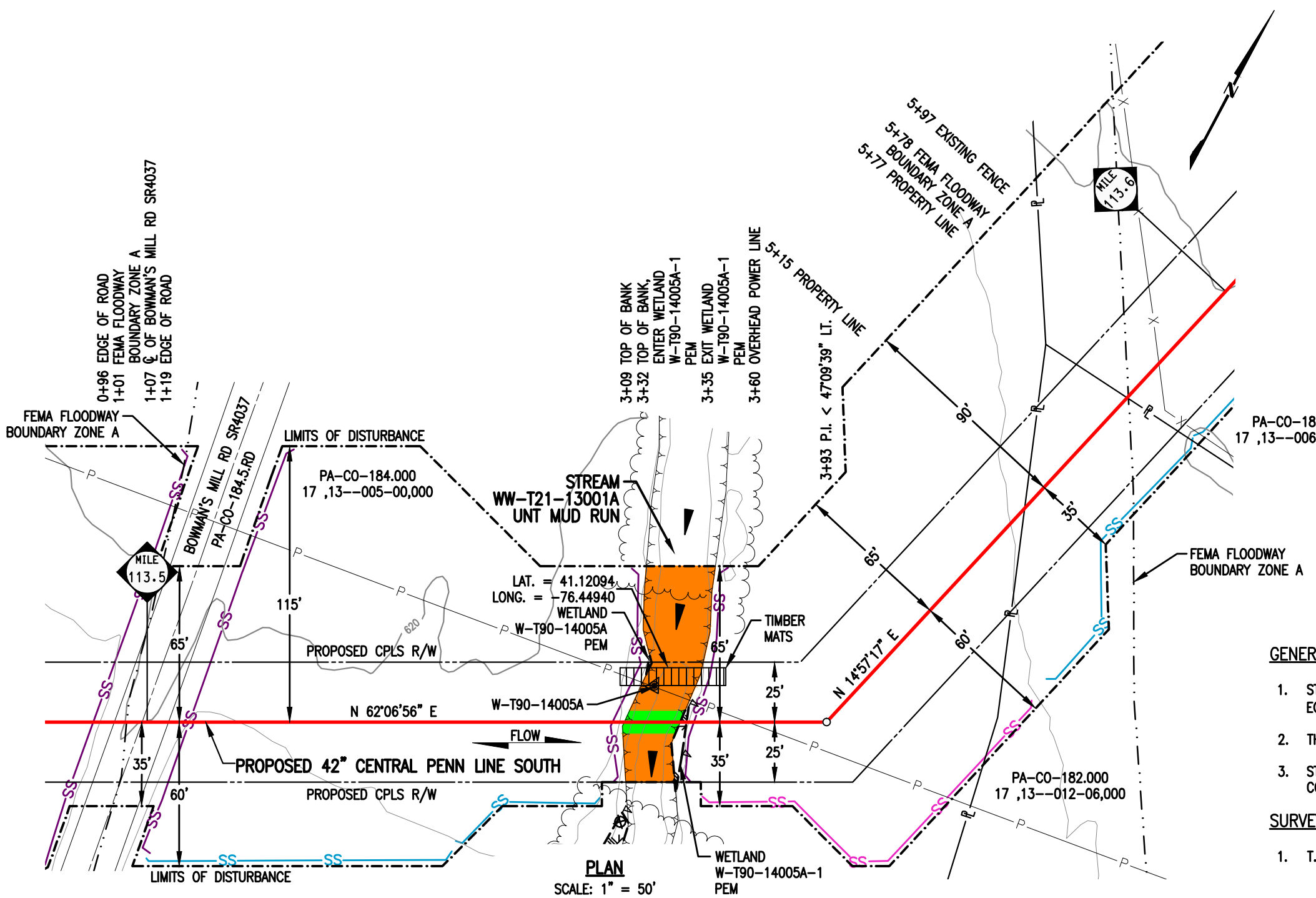
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
2	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

DRAWN BY: FH
CHECKED BY: JM
APPROVED BY: MJH
W.O. NUMBER: 1161503

DATE: 03/31/15
DATE: 06/08/15
DATE: 06/08/15

ISSUED FOR BID: _____
ISSUED FOR CONSTRUCTION: _____
DRAWING NUMBER: **24-1600-70-20-A/113.53-01**
SCALE: 1" = 50'
REVISION: 2

8:12am 10/4/2016 jibeast
K:\103643-CPLS\Mapping\Wetlands\CPLS_PAN\Revised 105\24-1600-70-20-A_113.53-01.dwg OF 1



STREAM DISTURBANCE:

STREAM WW-T21-13001A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0445
PERMANENT STREAM DISTURBANCE	0.0053
TOTAL STREAM DISTURBANCE	0.0498
TEMPORARY FLOODWAY DISTURBANCE	1.2988
PERMANENT FLOODWAY DISTURBANCE	0.1036
TOTAL FLOODWAY DISTURBANCE	1.4024

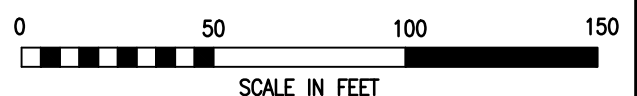
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	23.30
STREAM LENGTH	90.45

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T21-13001A 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 STATION 5992+70 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 77' LT. OF M.P. 113.45, ELEV. = 616.77' (NAVD88).



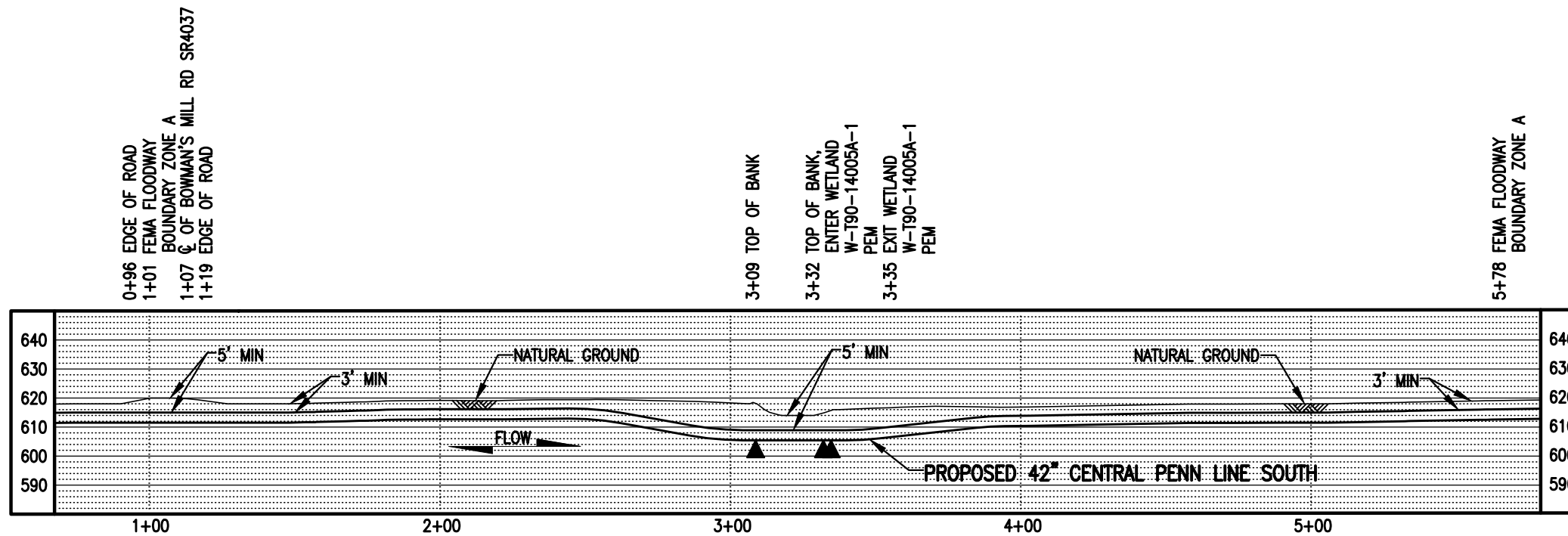
LEGEND

	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		

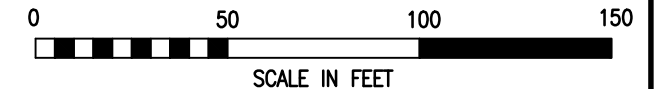
WOOD GROUP MUSTANG, INC.

	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 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T21-13001A M.P. 113.54 GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: JM	DATE: 06/08/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/113.54-01	SHEET 1
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	W.O. NUMBER: 1161503		10/4/2016	OF 2



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

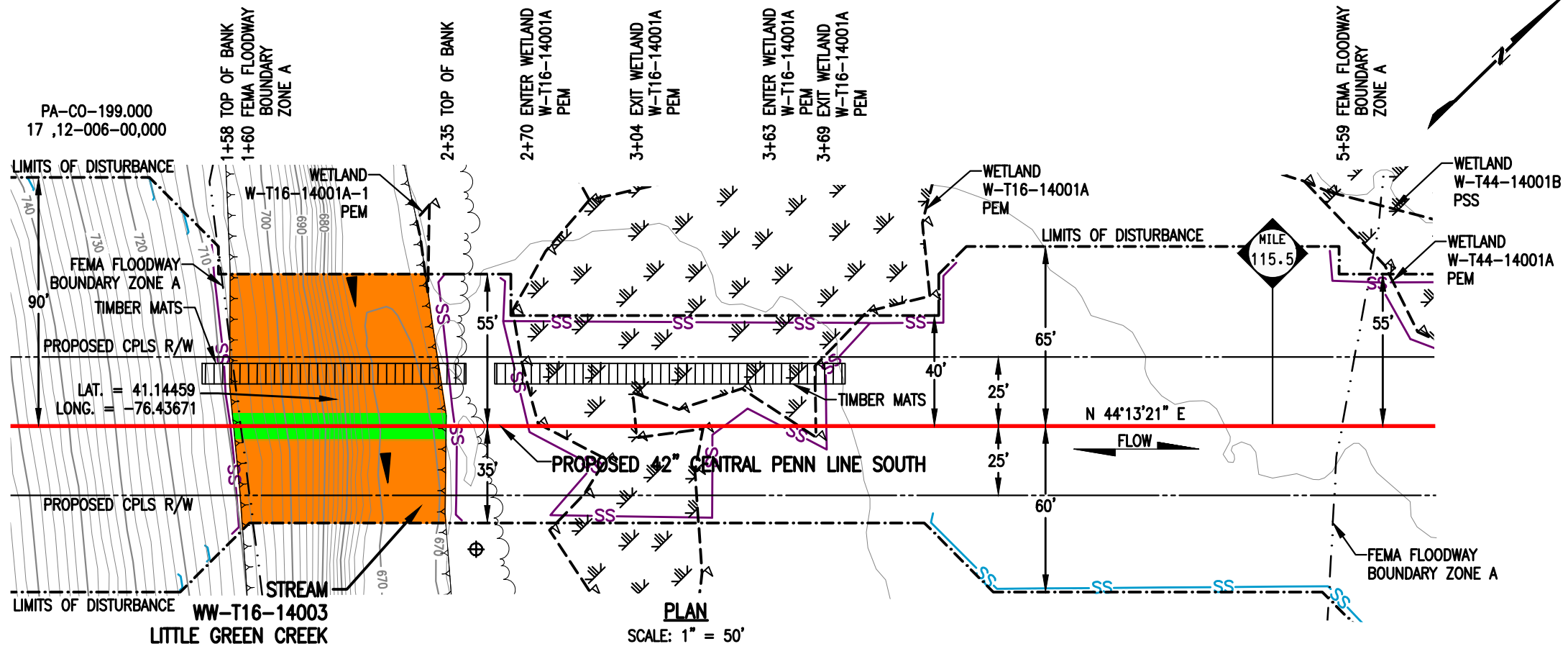


LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND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

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	10/25/16	MP	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-T21-13001A
M.P. 113.54
GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

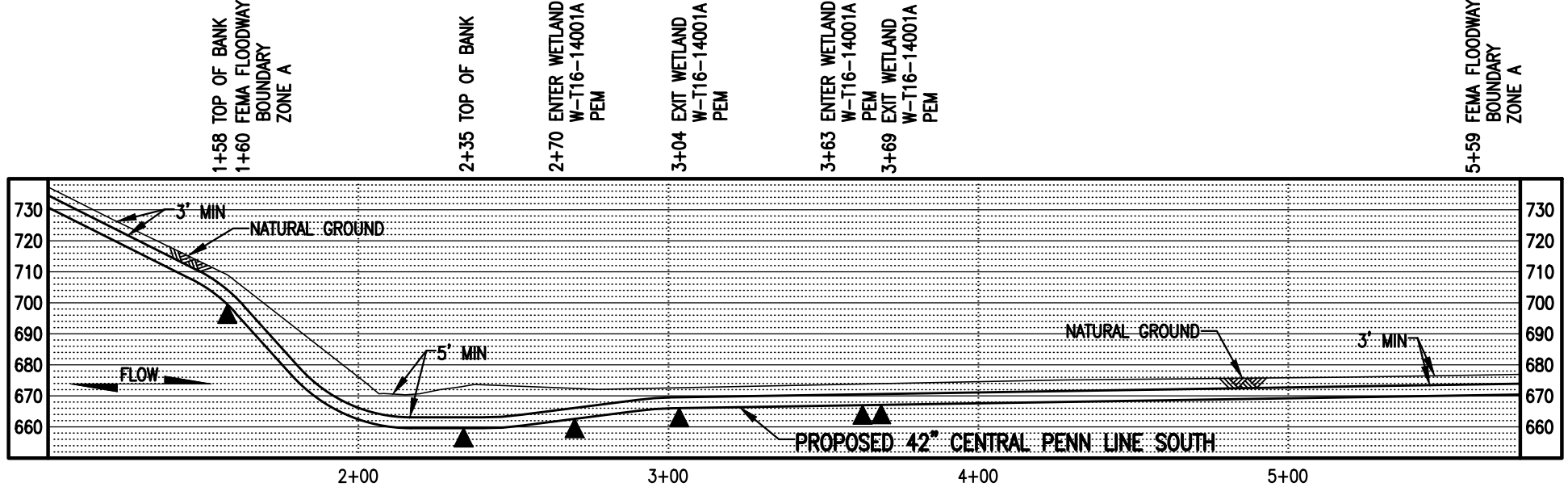
DRAWN BY: MP	DATE: 07/06/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: CLR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/113.54-01	SHEET 2
WO: 1161503		10/4/2016 jlibeast	OF 2



STREAM DISTURBANCE:

STREAM WW-T16-14003	ACRE
TEMPORARY STREAM DISTURBANCE	0.1369
PERMANENT STREAM DISTURBANCE	0.0177
TOTAL STREAM DISTURBANCE	0.1546
TEMPORARY FLOODWAY DISTURBANCE	0.5509
PERMANENT FLOODWAY DISTURBANCE	0.0644
TOTAL FLOODWAY DISTURBANCE	0.6153

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	76.95
STREAM LENGTH	91.24



GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T16-14003 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 2+00 SHOWN IS EQUAL TO STATION 6095+06 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 7' LT. OF M.P. 115.43, ELEV. = 670.85' (NAVD88).



LEGEND

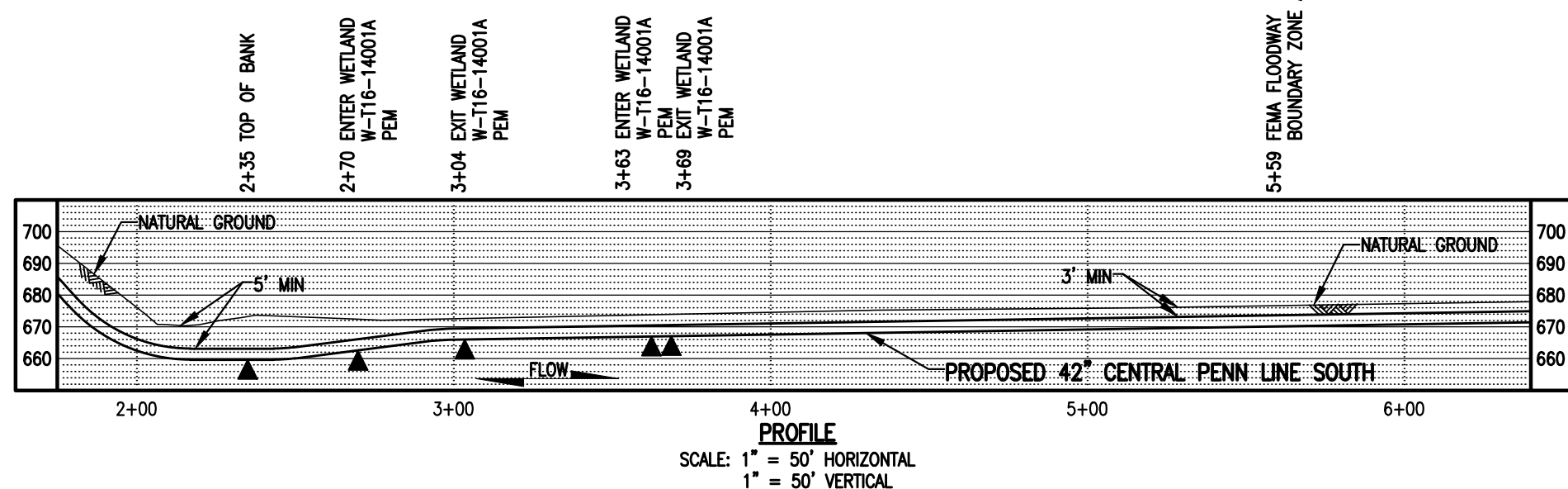
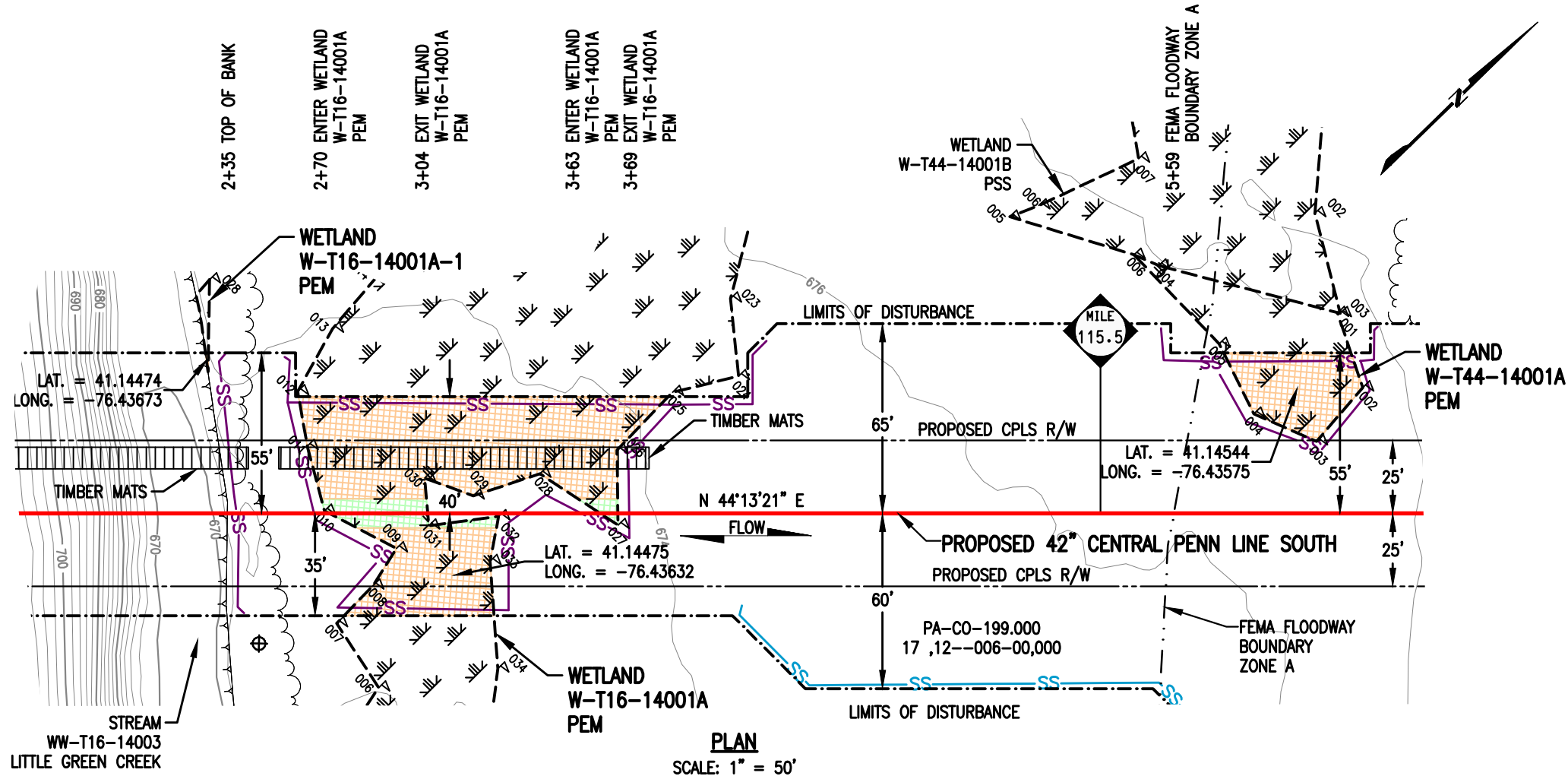
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY BOUNDARY
	EXISTING POWER LINE		FEMA FLOODWAY BOUNDARY
	EXISTING FENCE		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
2	10/25/16	KB	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-T16-14003
 © M.P. 115.44
GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: FH	DATE: 04/22/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ELR	DATE: 04/22/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/115.44-01	SHEET 1
IWO: 1161503	10/4/2016	11beast	OF 1



WETLAND DISTURBANCE:

WETLANDS W-T16-14001A/ W-T16-14001A-1 (EV)	ACRE
TEMPORARY DISTURBANCE	0.1113
PERMANENT DISTURBANCE	0.0101
TOTAL DISTURBANCE	0.1214

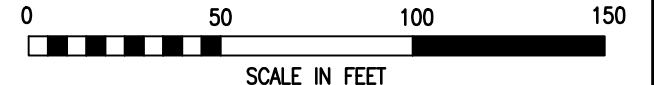
WETLAND W-T44-14001A (EV)	ACRE
TEMPORARY DISTURBANCE	0.0222
PERMANENT DISTURBANCE	0.0000
TOTAL DISTURBANCE	0.0222

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 2+00 SHOWN IS EQUAL TO STATION 6095+06 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 7' LT. OF M.P. 115.43, ELEV. = 670.85' (NAVD88).



LEGEND

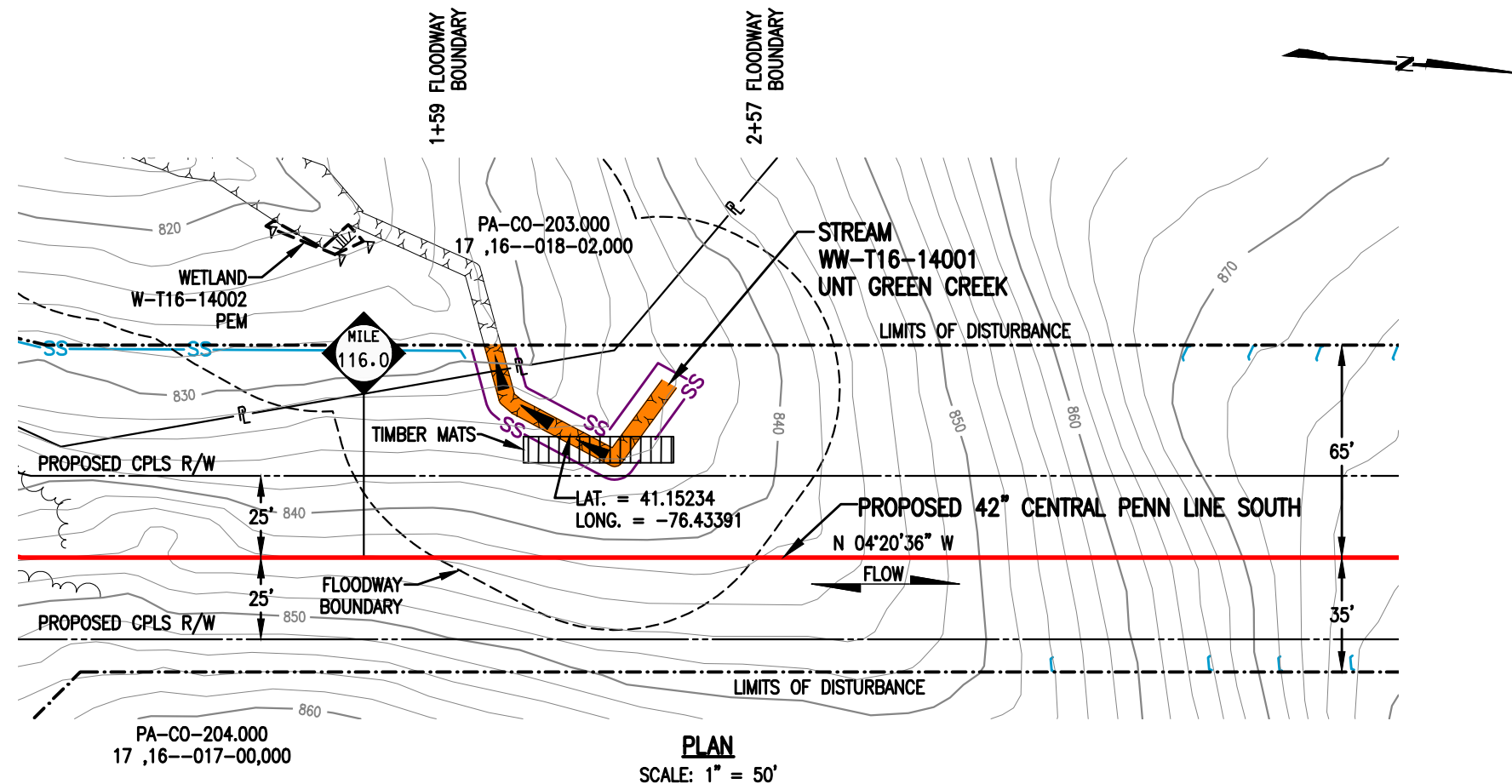
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	EXISTING POWER LINE		FLOODWAY BOUNDARY
	EXISTING FENCE		FEMA FLOODWAY BOUNDARY

SS 12" SEDIMENT BARRIER
SS 18" SEDIMENT BARRIER
SS 24" SEDIMENT BARRIER
SS 32" SEDIMENT BARRIER

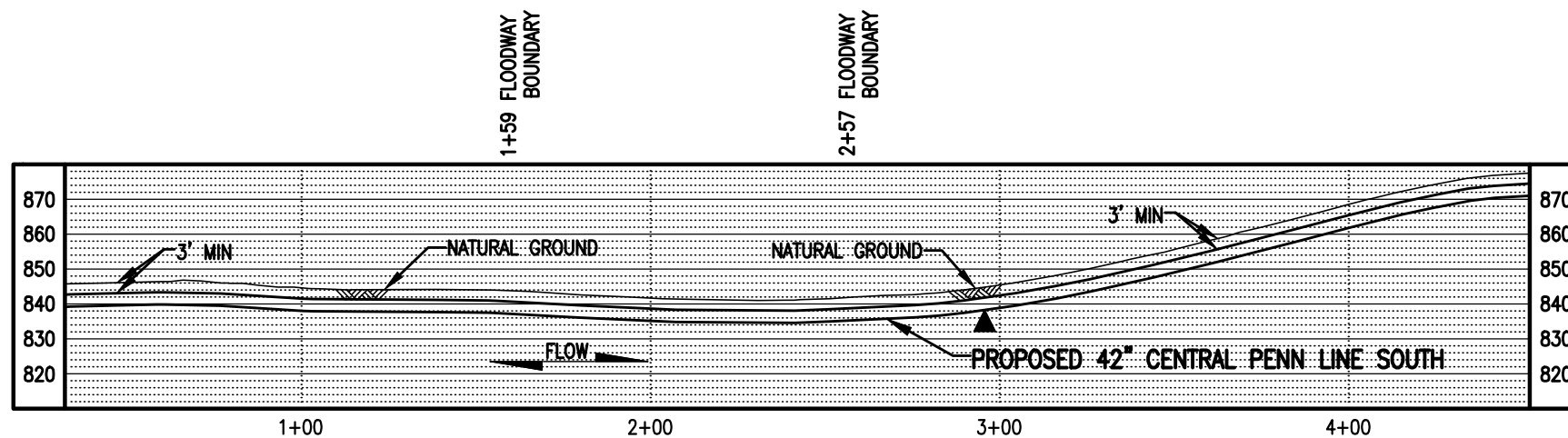
PERMANENT WETLAND IMPACT
TEMPORARY WETLAND IMPACT

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 WETLAND CROSSINGS W-T16-14001A/W-T16-14001A-1 @ M.P. 115.44 & W-T44-14001A @ M.P. 115.51 GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO
0	08/20/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	DATE: 05/22/15
1	02/03/16	AT	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	DATE: 06/01/15
2	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	DATE: 06/08/15
				ISSUED FOR BID:	SCALE: 1" = 50'		
				ISSUED FOR CONSTRUCTION:	REVISION: 2		
				DRAWING NUMBER: 24-1600-70-20-A/115.45-01	SHEET 1		
				8:00am 10/7/2016 a1traha	OF 1		
				W.O. NUMBER: 1161503			



PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-T16-14001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0094
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0094
TEMPORARY FLOODWAY DISTURBANCE	0.2252
PERMANENT FLOODWAY DISTURBANCE	0.0223
TOTAL FLOODWAY DISTURBANCE	0.2475

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	28.93
STREAM LENGTH	83.11

GENERAL NOTES:

1. STREAM DOES NOT CROSS PROPOSED PIPELINE. EQUIPMENT TO CROSS STREAM UTILIZING 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 6124+43 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

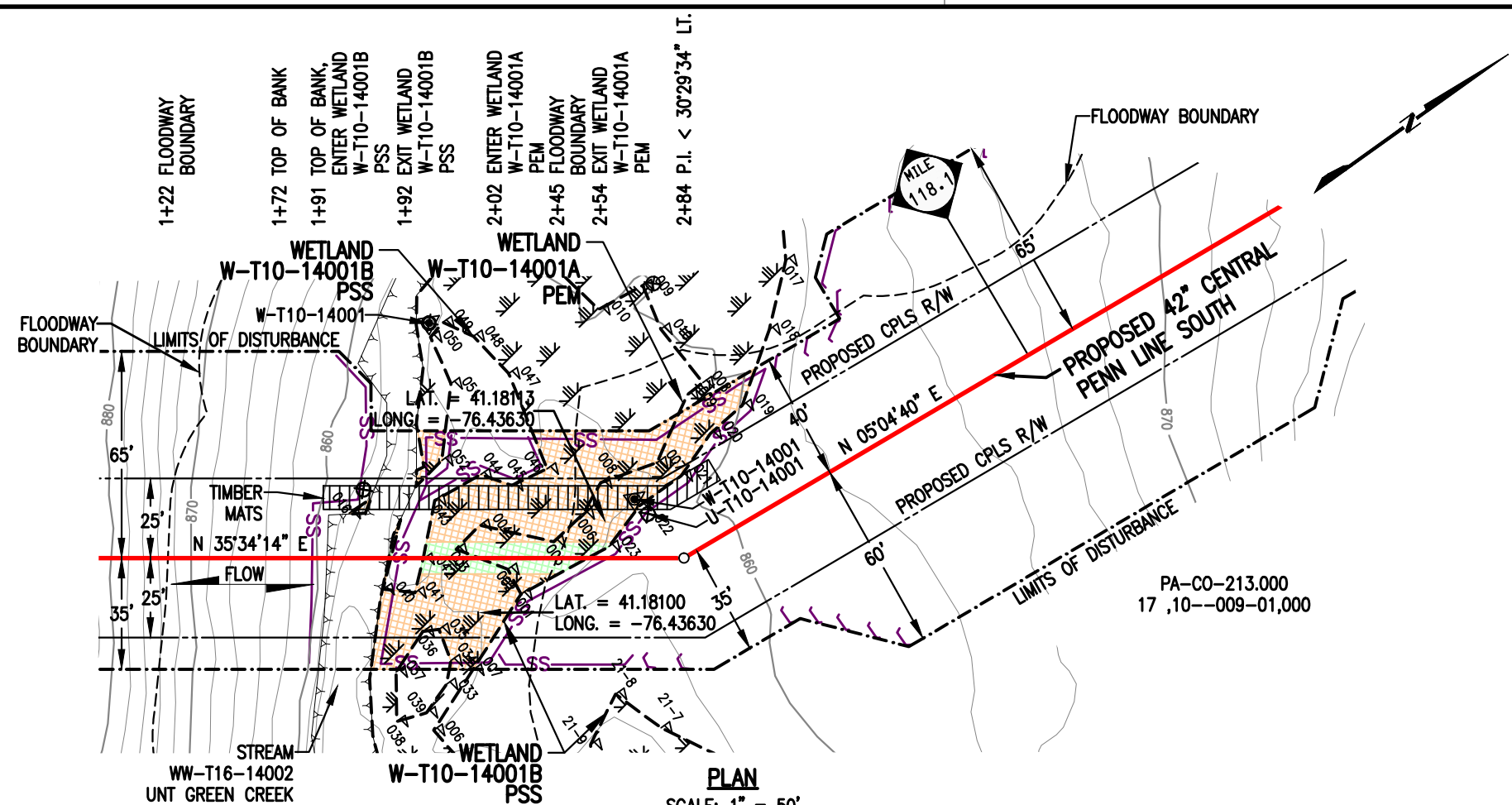
1. T.B.M. BOUNDARY MARKER - 63' LT. OF M.P. 116.01, ELEV. = 834.45' (NAVD88).



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				

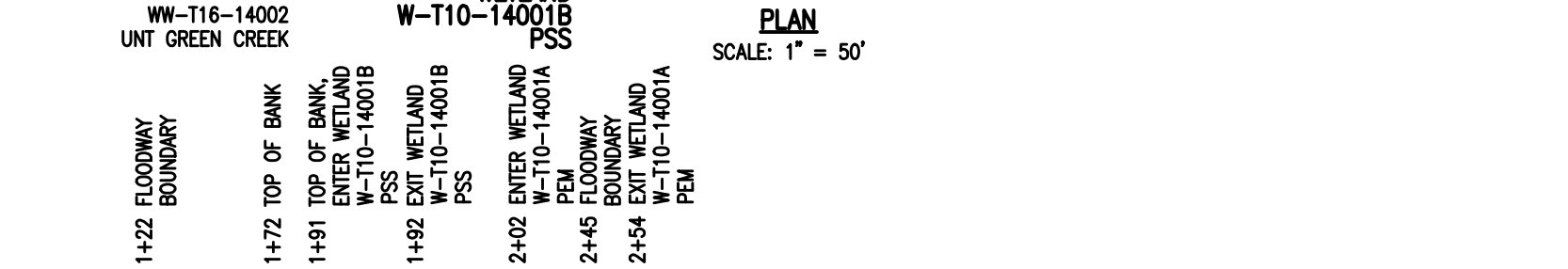
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T16-14001 © M.P. 116.01 GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL DATE: 05/23/15 ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	REVISION: 1
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	DATE: 06/05/15 ISSUED FOR CONSTRUCTION: APPROVED BY: MJH DATE: 06/08/15 DRAWING NUMBER: 24-1600-70-09-A/116.01-01 W.O. NUMBER: 1161503 10/24/2016 vqtran	SHEET 1 OF 1



WETLAND DISTURBANCE:

WETLAND W-T10-14001A (EV)	ACRE
TEMPORARY DISTURBANCE	0.0207
PERMANENT DISTURBANCE	0.0077
TOTAL DISTURBANCE	0.0284

WETLAND W-T10-14001B (EV)	ACRE
TEMPORARY DISTURBANCE	0.0566
PERMANENT DISTURBANCE	0.0043
TOTAL DISTURBANCE	0.0609

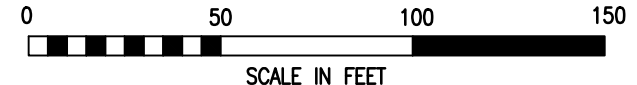


NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 6232+58 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 125' LT. OF M.P. 118.02, ELEV. = 892.95' (NAVD88).



LEGEND

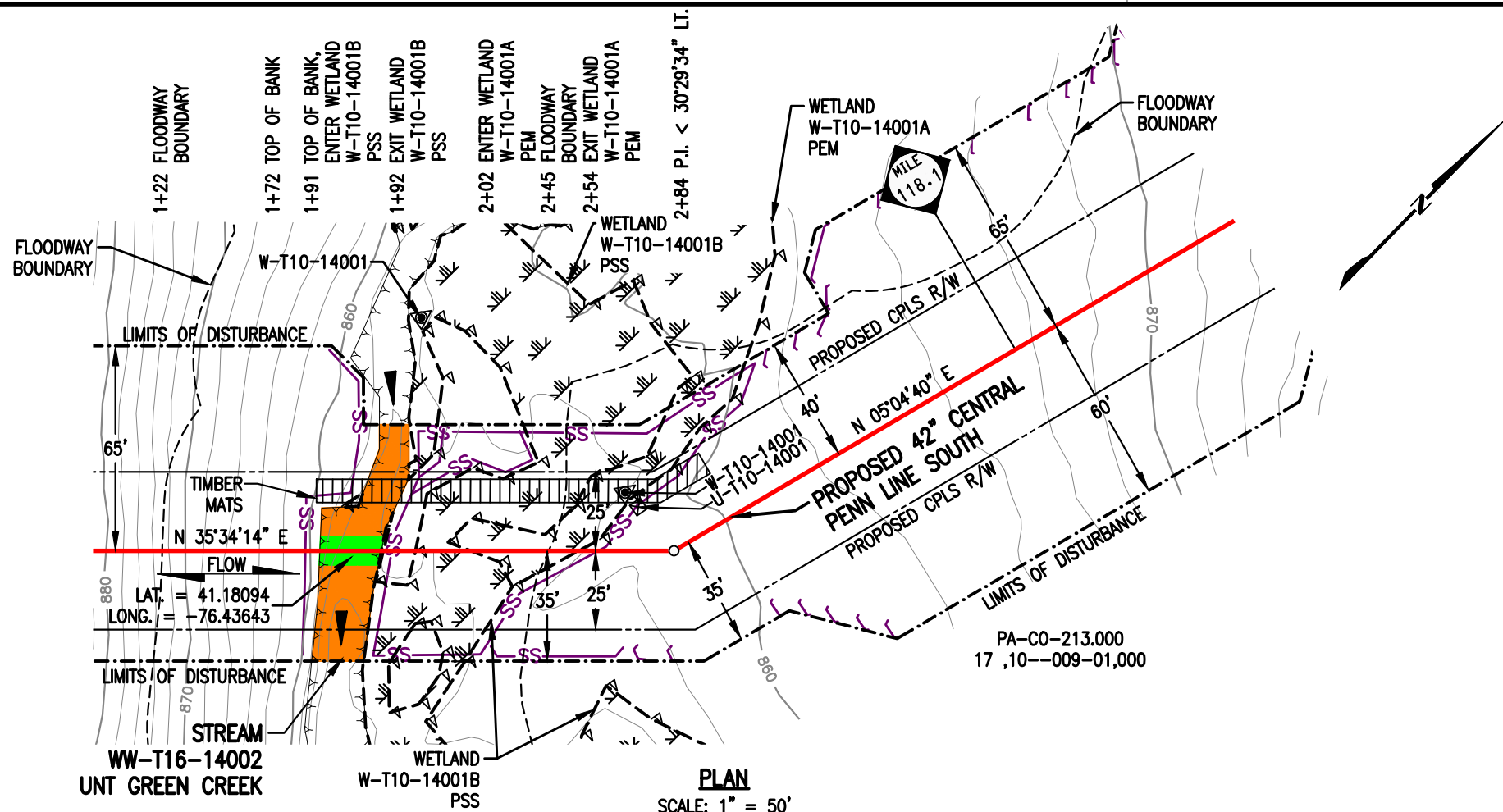
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - - - LIMITS OF DISTURBANCE
- - - - - PROPOSED CPLS R/W
- P — PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- P — EXISTING POWER LINE
- X — EXISTING FENCE

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

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-T10-14001B @ M.P. 118.07 W-T10-14001A @ M.P. 118.09 GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 07/28/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/118.06-01	SHEET 1
				10/11/2016		a1traha		340pm		OF 1
				K:\103643-CPLS\Mapping\Wetlands\CPLS_PAN\Revised 105\24-1600-70-20-A_118.06-01.dwg						



STREAM DISTURBANCE:

STREAM WW-T16-14002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0228
PERMANENT STREAM DISTURBANCE	0.0045
TOTAL STREAM DISTURBANCE	0.0273
TEMPORARY FLOODWAY DISTURBANCE	0.2029
PERMANENT FLOODWAY DISTURBANCE	0.0138
TOTAL FLOODWAY DISTURBANCE	0.2167

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	19.49
STREAM LENGTH	81.77

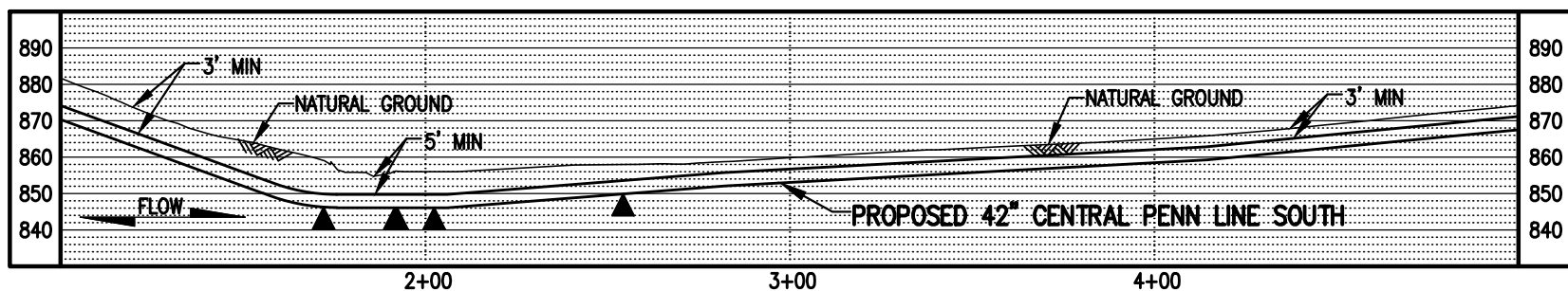
PLAN
SCALE: 1" = 50'

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR WW-T16-14002 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 6232+58 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 125' LT. OF M.P. 118.02, ELEV. = 892.95' (NAVD88).



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



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

WOOD GROUP MUSTANG, INC.

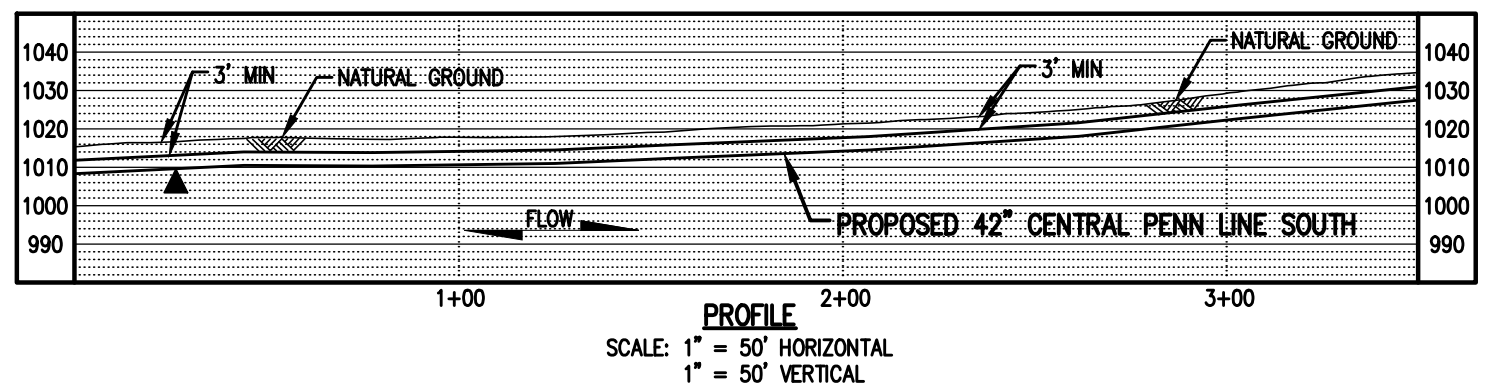
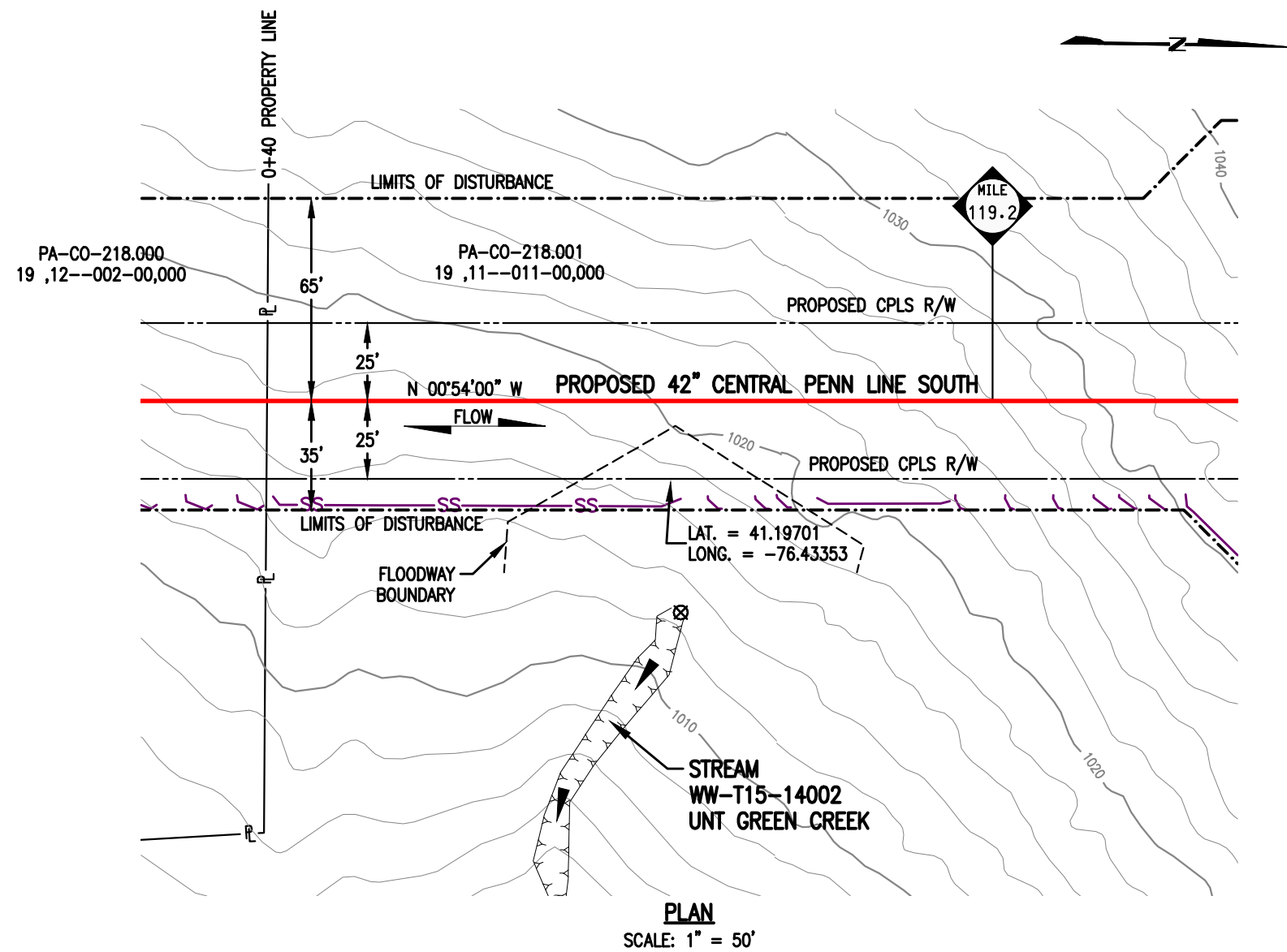
DRAWING NO.	REFERENCE TITLE

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-T16-14002
M.P. 118.06
GREENWOOD TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	08/20/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	ELR	03/31/15		1" = 50'
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CLR	03/31/15		

APPROVED BY:	DATE:	ISSUED FOR CONSTRUCTION:	REVISION:
MJH	06/08/15		1

DRAWING NUMBER: **24-1600-70-09-A/118.06-01** SHEET 1 OF 1
 IWO: 1161503
 10/11/2016 t2le
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STREAM DISTURBANCE:

STREAM WW-T15-14002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0277
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0277

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 0+00 SHOWN IS EQUAL TO STATION 6291+03 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

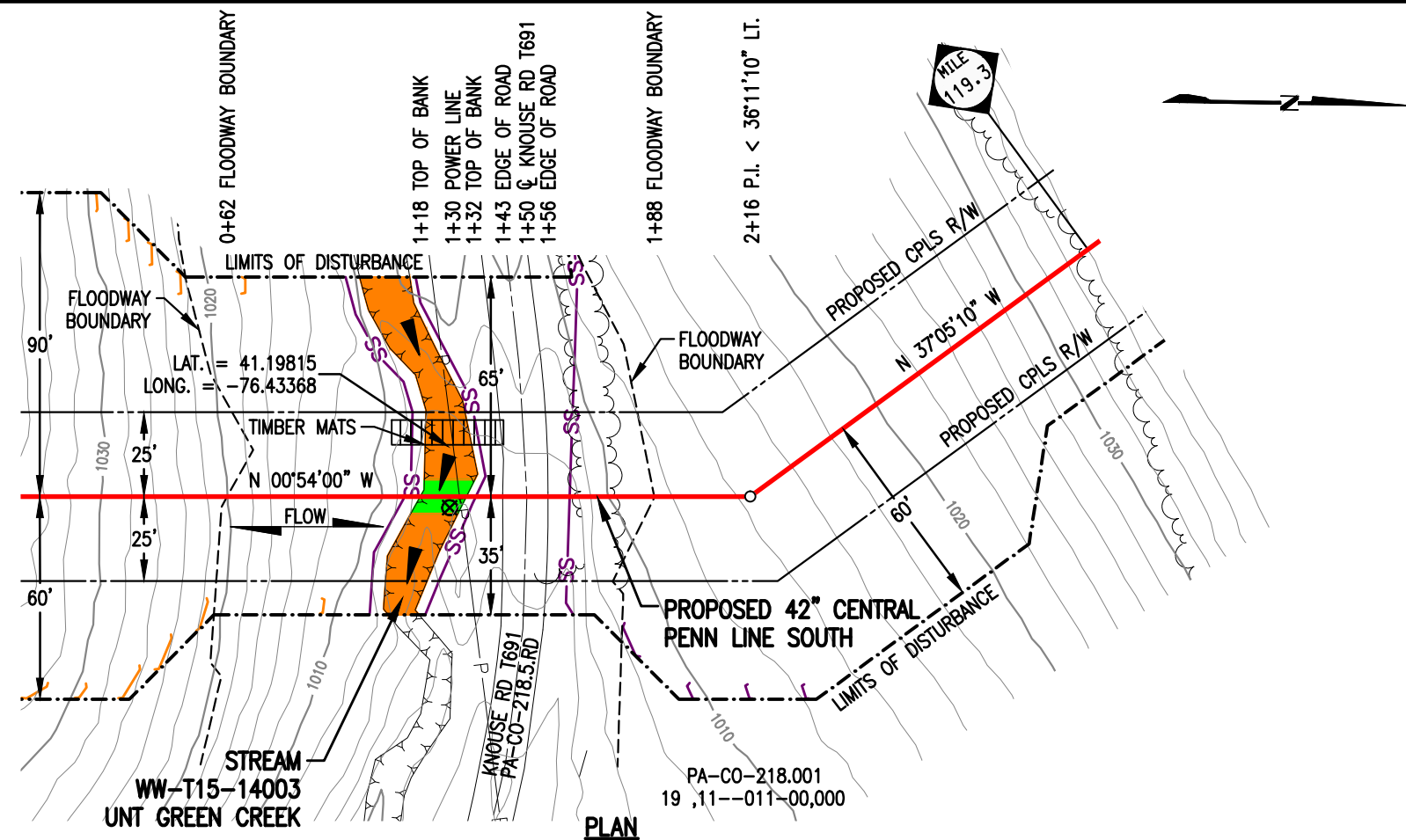
1. T.B.M. SURVEY CONTROL POINT - 132.40' LT. OF M.P. 119.18, ELEV. = 1004.10' (NAVD88).



LEGEND

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

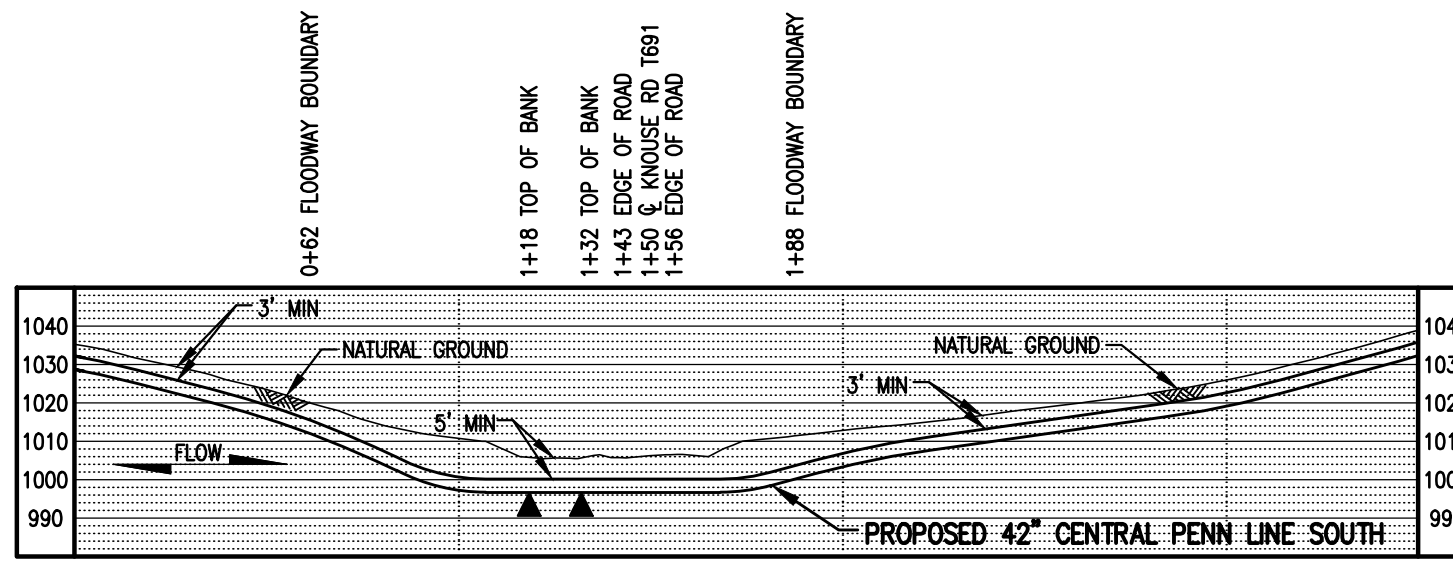
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSING WW-T15-14002 M.P. 119.18 JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: ELR DATE: 04/30/15 ISSUED FOR BID: SCALE: 1" = 50' CHECKED BY: CLR DATE: 06/02/15 ISSUED FOR CONSTRUCTION: REVISION: 1 APPROVED BY: MJH DATE: 06/08/15 DRAWING NUMBER: 24-1600-70-09-A/119.18-01 SHEET 1 W.O. NUMBER: 1161503 <small>10/3/2016 jlibeast</small> <small>K:\103643-CPLS\Mapping\Waterbodies\CPLS_PAN\Revised 105\24-1600-70-09-A_119.18-01.dwg</small> OF 1



STREAM DISTURBANCE:

STREAM WW-T15-14003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0269
PERMANENT STREAM DISTURBANCE	0.0032
TOTAL STREAM DISTURBANCE	0.0301
TEMPORARY FLOODWAY DISTURBANCE	0.2260
PERMANENT FLOODWAY DISTURBANCE	0.0256
TOTAL FLOODWAY DISTURBANCE	0.2516

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	13.62
STREAM LENGTH	104.48

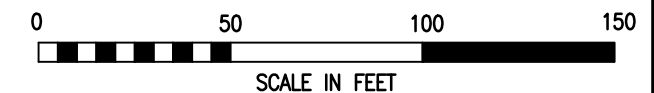


GENERAL NOTES:

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 6296+64 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 16' LT. OF M.P. 119.21, ELEV. = 1036.06' (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		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

WOOD GROUP MUSTANG, INC.

	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	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 42" CENTRAL PENN LINE SOUTH								
		STREAM CROSSING WW-T15-14003								
		© M.P. 119.26								
		JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
		Williams								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: ELR	DATE: 04/30/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 05/27/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	AT	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/119.26-01	SHEET 1
2	10/20/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	W.O. NUMBER: 1161503		10/3/2016	OF 1

STREAM DISTURBANCE:

STREAM WW-T15-14005	ACRE
TEMPORARY STREAM DISTURBANCE	0.0245
PERMANENT STREAM DISTURBANCE	0.0017
TOTAL STREAM DISTURBANCE	0.0262
TEMPORARY FLOODWAY DISTURBANCE	0.1929
PERMANENT FLOODWAY DISTURBANCE	0.0238
TOTAL FLOODWAY DISTURBANCE	0.2167

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	6.88
STREAM LENGTH	94.50

STREAM WW-T15-14006	ACRE
TEMPORARY STREAM DISTURBANCE	0.0293
PERMANENT STREAM DISTURBANCE	0.0036
TOTAL STREAM DISTURBANCE	0.0329
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

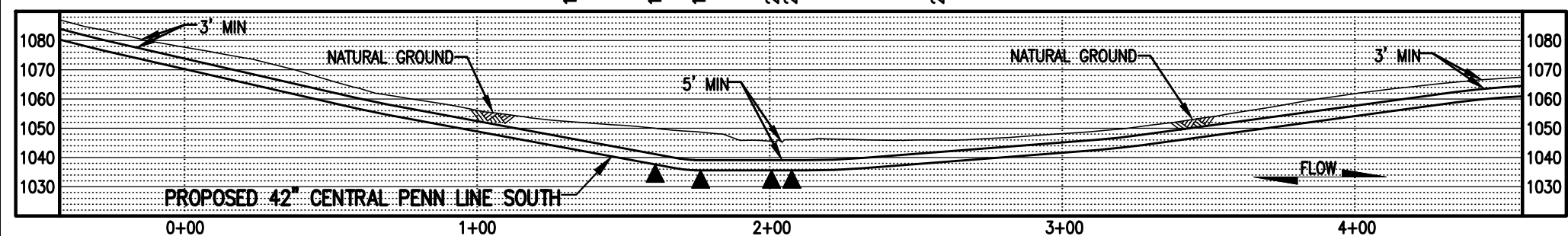
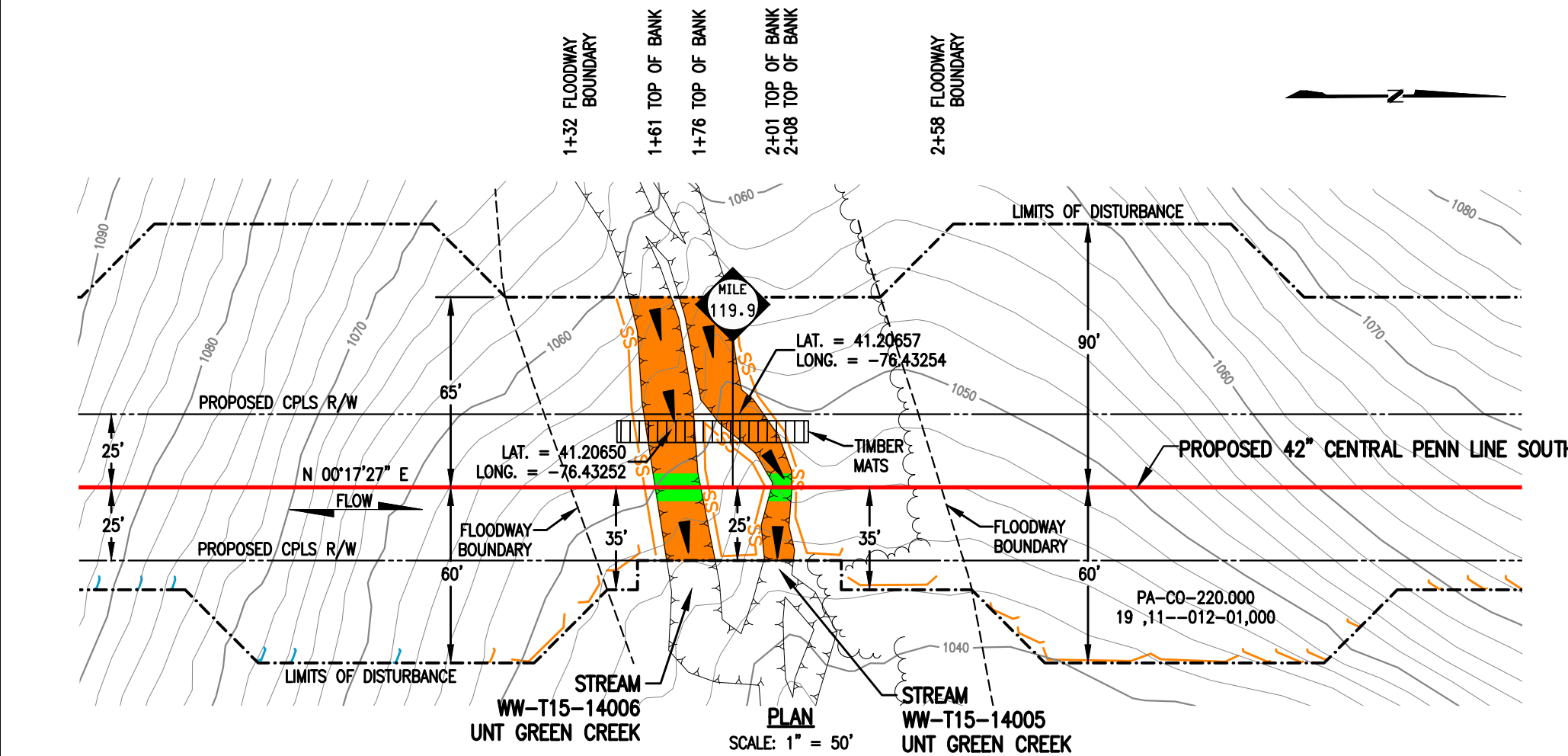
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	15.47
STREAM LENGTH	95.49

GENERAL NOTES:

1. STREAM CROSSING METHOD FOR EACH 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 6329+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

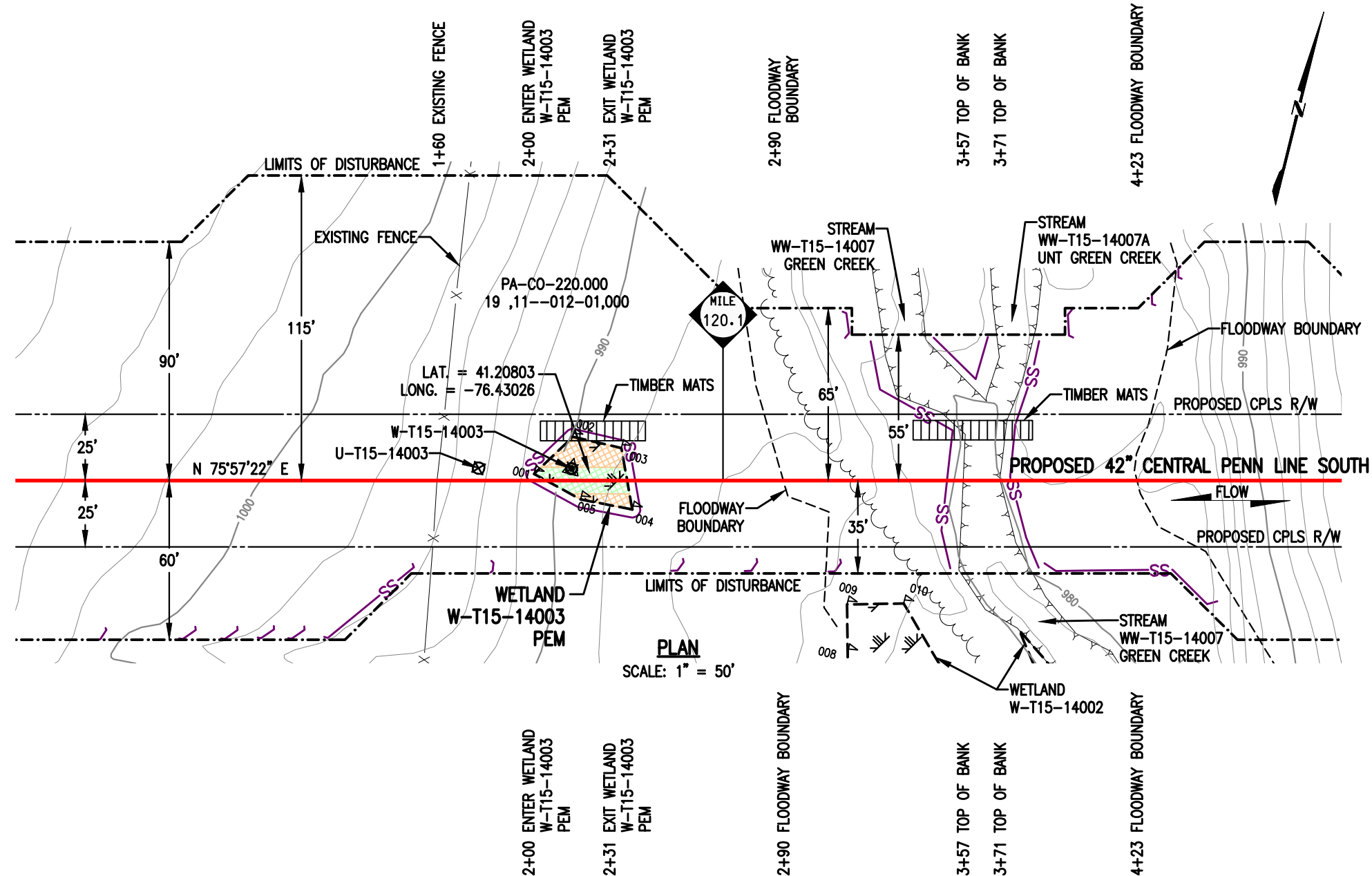
1. T.B.M. SURVEY CONTROL POINT - 425' RT. OF M.P. 119.90, ELEV. = 1012.90' (NAVD88).



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				

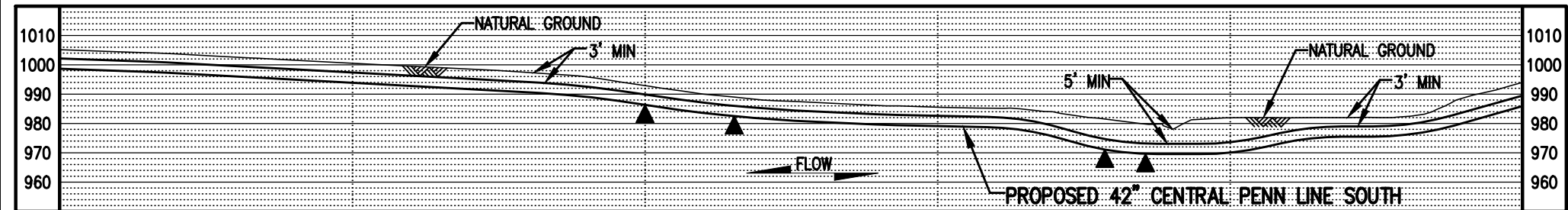
DRAWING NO.		REFERENCE TITLE		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 42" CENTRAL PENN LINE SOUTH STREAM CROSSINGS WW-T15-14005 & WW-T15-14006 © M.P. 119.90 JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ELR	DATE: 03/31/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/119.90-01	SHEET 1
2	10/25/16	LN	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	W.O. NUMBER: 1161503	DATE: 10/24/2016	905am	OF 1



WETLAND DISTURBANCE:

WETLAND W-T15-14003 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0075
PERMANENT DISTURBANCE	0.0068
TOTAL DISTURBANCE	0.0143

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 STATION 6339+61 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 9' RT. OF M.P. 120.08, ELEV. = 993.55' (NAVD88).



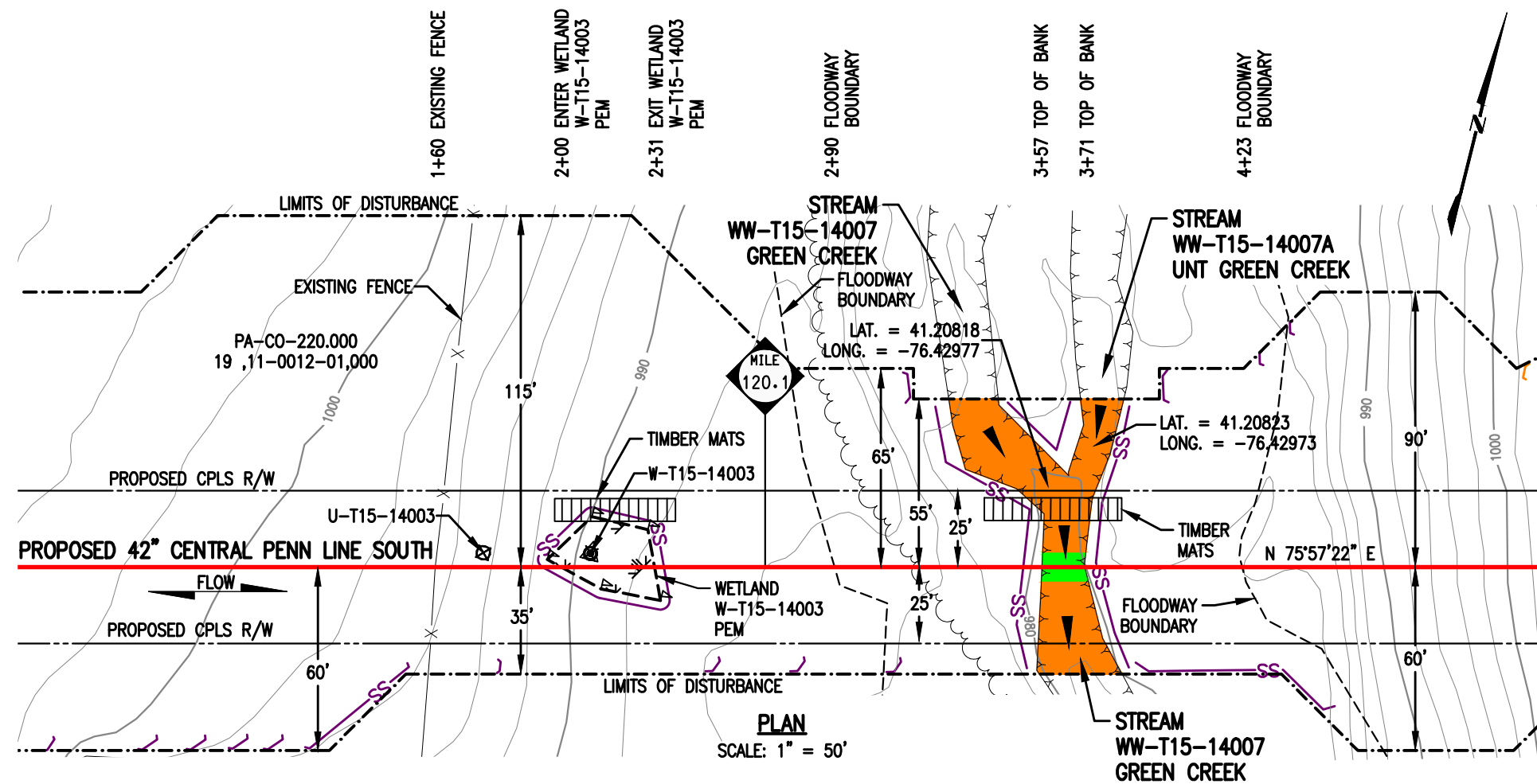
LEGEND

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

DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/25/16	MA	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
WETLAND CROSSINGS W-T15-14003
M.P. 120.09
JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: AO	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ELR	DATE: 06/01/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/120.08-01	SHEET 1
W.O. NUMBER: 1161503	10/5/2016	6-Siam	OF 1



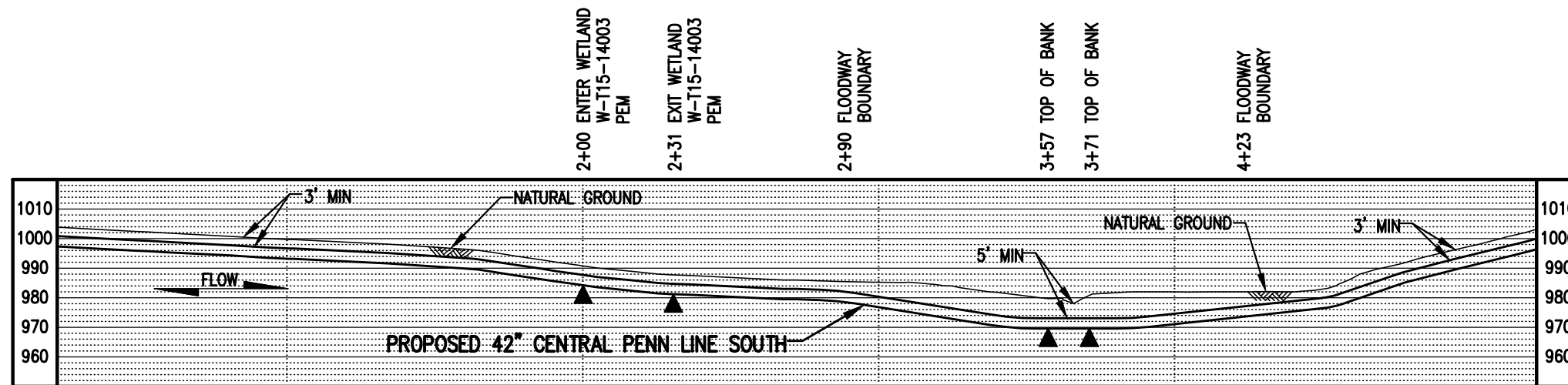
STREAM DISTURBANCE:

STREAM WW-T15-14007	ACRE
TEMPORARY STREAM DISTURBANCE	0.0377
PERMANENT STREAM DISTURBANCE	0.0033
TOTAL STREAM DISTURBANCE	0.0410
TEMPORARY FLOODWAY DISTURBANCE	0.2435
PERMANENT FLOODWAY DISTURBANCE	0.0273
TOTAL FLOODWAY DISTURBANCE	0.2708

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	13.93
STREAM LENGTH	108.51

STREAM WW-T15-14007A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0083
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0083
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	13.74
STREAM LENGTH	33.27



GENERAL NOTES:

1. STREAM CROSSING METHOD FOR STREAM WW-T15-14007 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. STREAM WW-T15-14007A DOES NOT CROSS PROPOSED PIPELINE. STREAM WILL BE MATTED DURING CONSTRUCTION.
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 6339+61 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 45' RT. OF M.P. 120.11, ELEV. = 981.84' (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-T15-14007 & WW-T15-14007A						
				© M.P. 120.12						
				JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ELR	DATE: 03/31/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	KB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/120.11-01	SHEET 1
				W.O. NO.:	1161503		W.O. NO.:	1161503	10/24/2016	OF 1

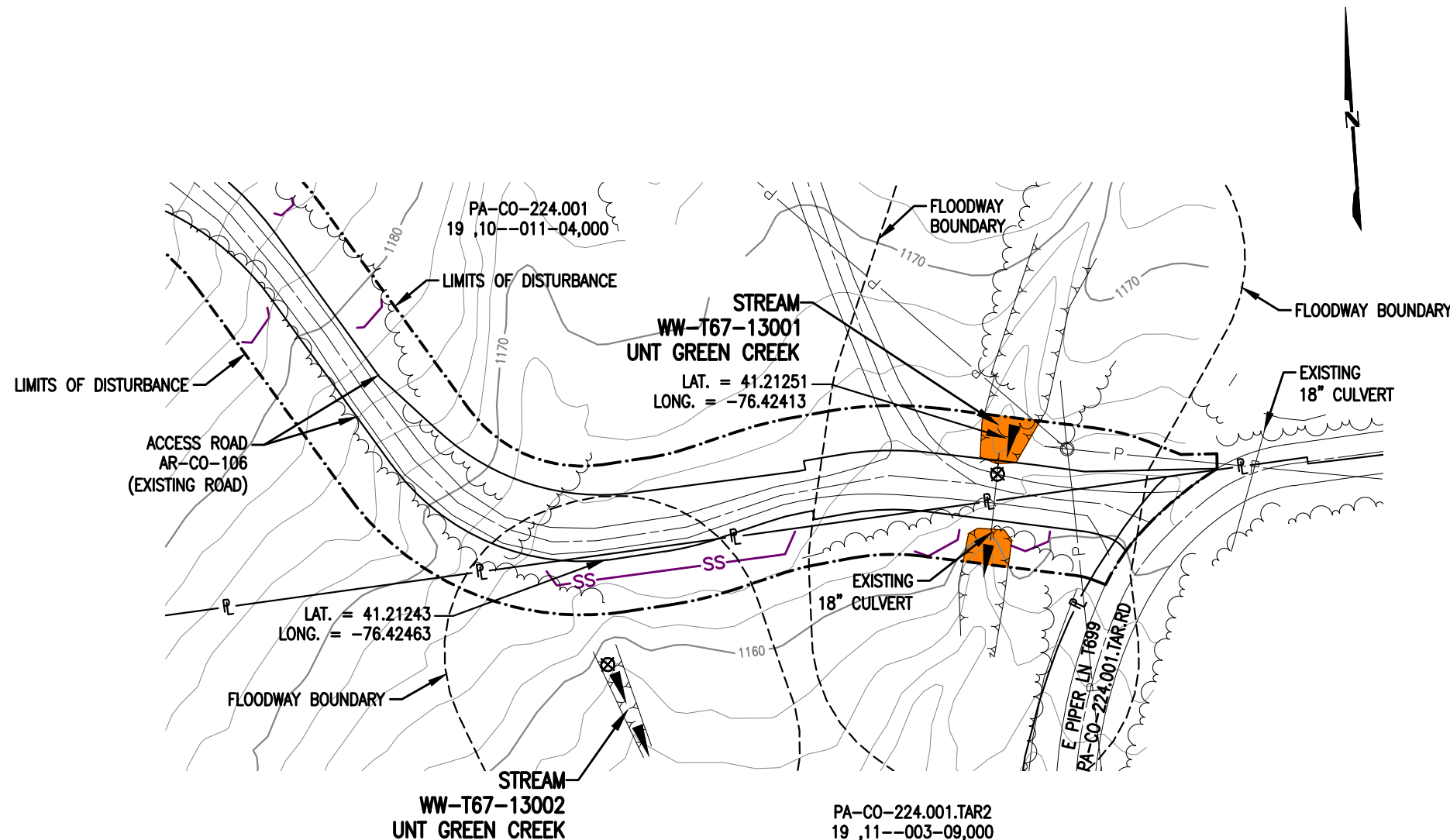
STREAM DISTURBANCE FOR ACCESS ROAD AR-CO-106:

STREAM WW-T67-13001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0094
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0094
TEMPORARY FLOODWAY DISTURBANCE	0.1152
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.1152

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	19.26
STREAM LENGTH	50.02

STREAM WW-T67-13002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0630
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0630

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



PLAN
SCALE: 1" = 50'

GENERAL NOTES:

- ACCESS ROAD CROSSES STREAM USING EXISTING CULVERT.
- 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:

- T.B.M. SURVEY CONTROL POINT - 1' RT. OF M.P. 120.46, ELEV. = 1236.88' (NAVD88).



LEGEND

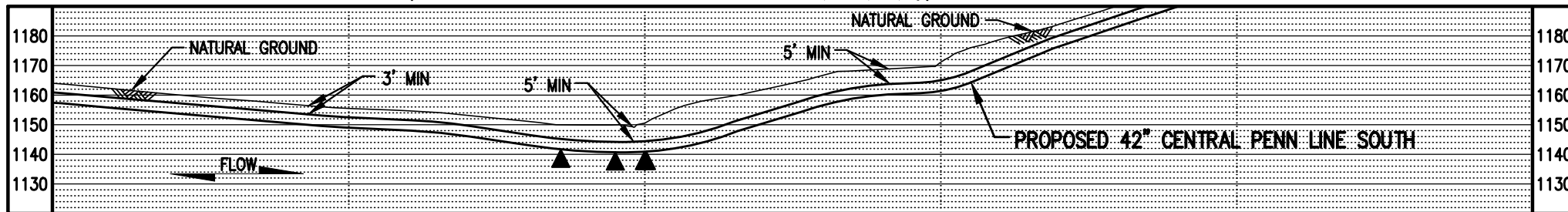
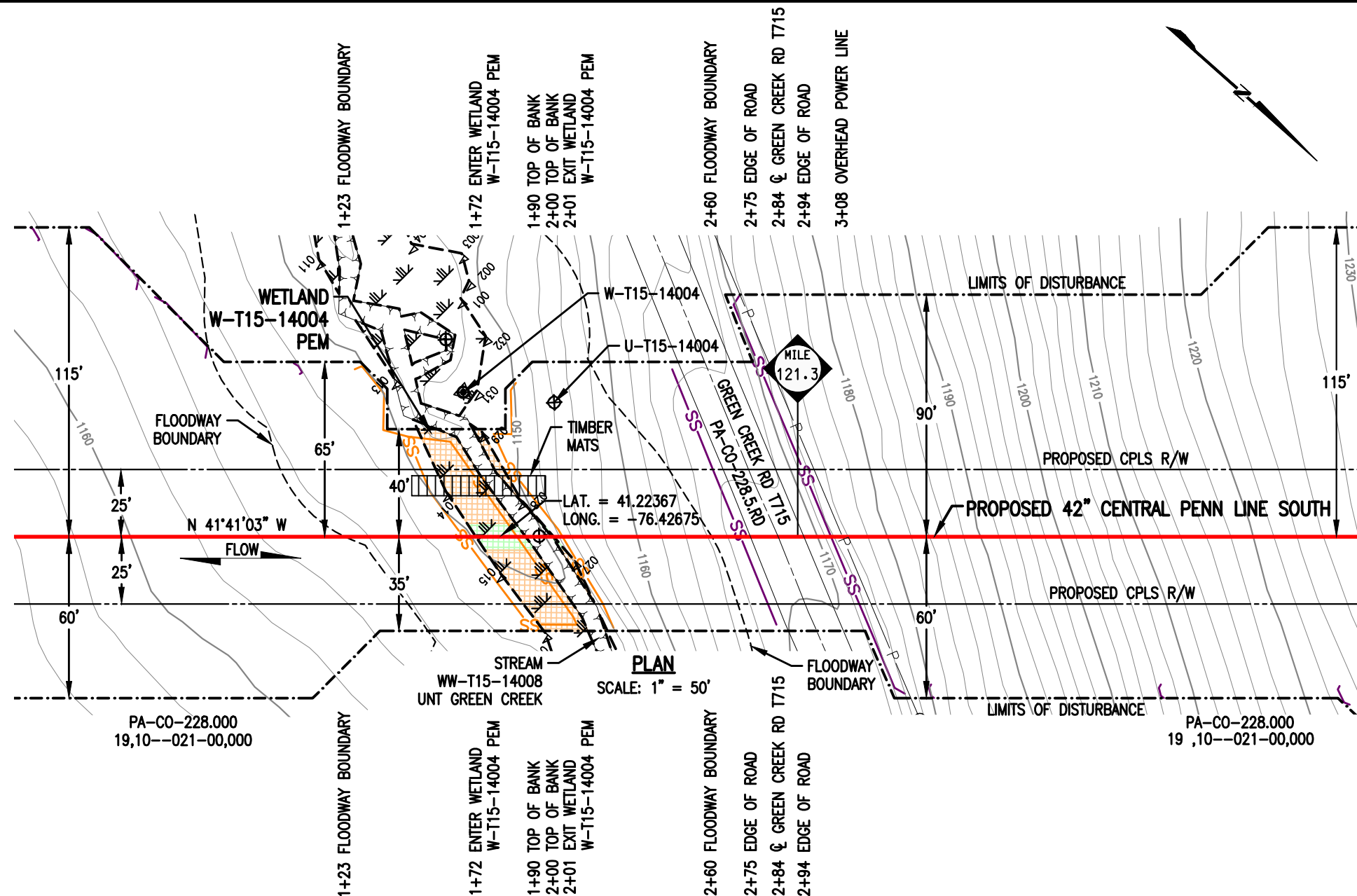
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLS R/W
- P — PROPERTY LINE
- F — FOREIGN PIPELINE
- - - WETLAND AREA
- ▶ STREAM FLOW
- P — EXISTING POWER LINE
- X — EXISTING FENCE

WOOD GROUP MUSTANG, INC.

- 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

- ▽ WETLAND FLAGS
- ⊗ PHOTO DATA POINT
- ⊠ WETLAND DATA POINT
- ⊡ 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 AND WW-T67-13002 @ M.P. 120.5 JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA			
NO.	DATE	BY	REVISION DESCRIPTION
0	10/25/16	JB	ISSUED FOR PADEP SUBMITTAL #2
W.O. NO.	CHK.	APP.	
1161503	CLR	MJH	
DRAWN BY: JB		DATE: 07/05/16	ISSUED FOR BID:
CHECKED BY: CLR		DATE: 07/05/16	ISSUED FOR CONSTRUCTION:
APPROVED BY: MJH		DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/AR-CO-106-01
WO: 1161503		SCALE: 1" = 50'	SHEET 1 OF 1



WETLAND DISTURBANCE:

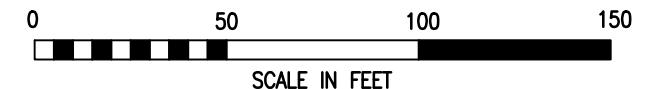
WETLAND W-T15-14004 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0276
PERMANENT DISTURBANCE	0.0044
TOTAL DISTURBANCE	0.0320

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 6402+73 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 4' RT. OF M.P. 121.29, ELEV. = 1168.40' (NAVD88).



LEGEND

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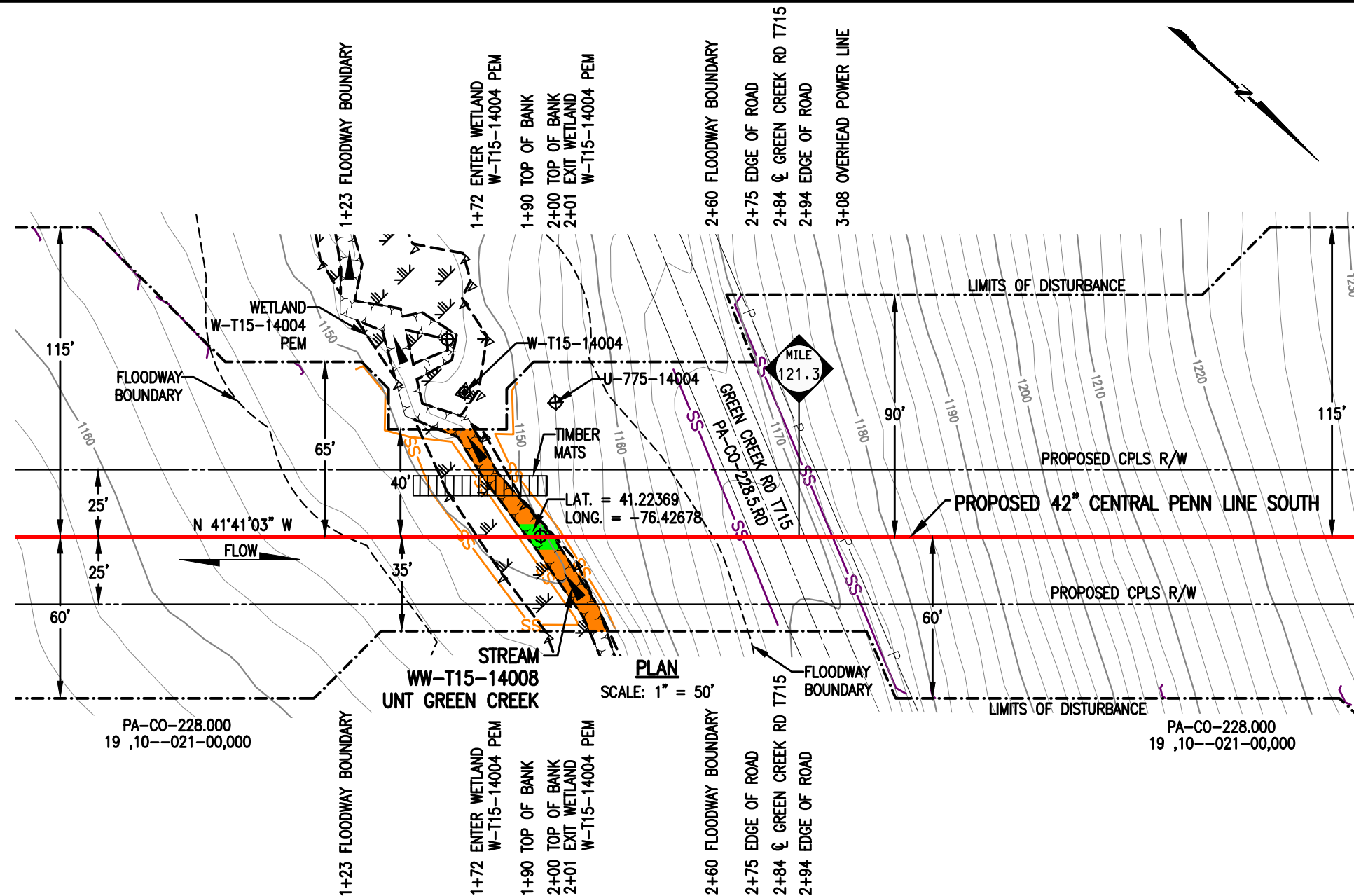


DRAWING NO.	REFERENCE TITLE					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	10/25/16	VC	ISSUED FOR PADEP SUBMITAL #2	1161503	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 42" CENTRAL PENN LINE SOUTH
WETLAND CROSSING W-T15-14004
M.P. 121.28
JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

Williams

DRAWN BY: AO	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ELR	DATE: 06/01/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/121.28-01	SHEET 1
IWO: 1161503	9/26/2016	11-48am	OF 1



STREAM DISTURBANCE:

STREAM WW-T15-14008	ACRE
TEMPORARY STREAM DISTURBANCE	0.0120
PERMANENT STREAM DISTURBANCE	0.0022
TOTAL STREAM DISTURBANCE	0.0142
TEMPORARY FLOODWAY DISTURBANCE	0.2139
PERMANENT FLOODWAY DISTURBANCE	0.0245
TOTAL FLOODWAY DISTURBANCE	0.2384

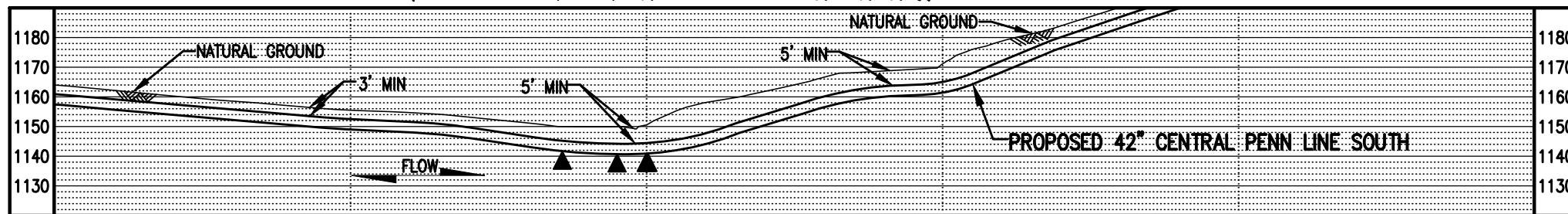
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	9.83
STREAM LENGTH	94.03

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 6402+73 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 4' RT. OF M.P. 121.29, ELEV. = 1168.40' (NAVD88).



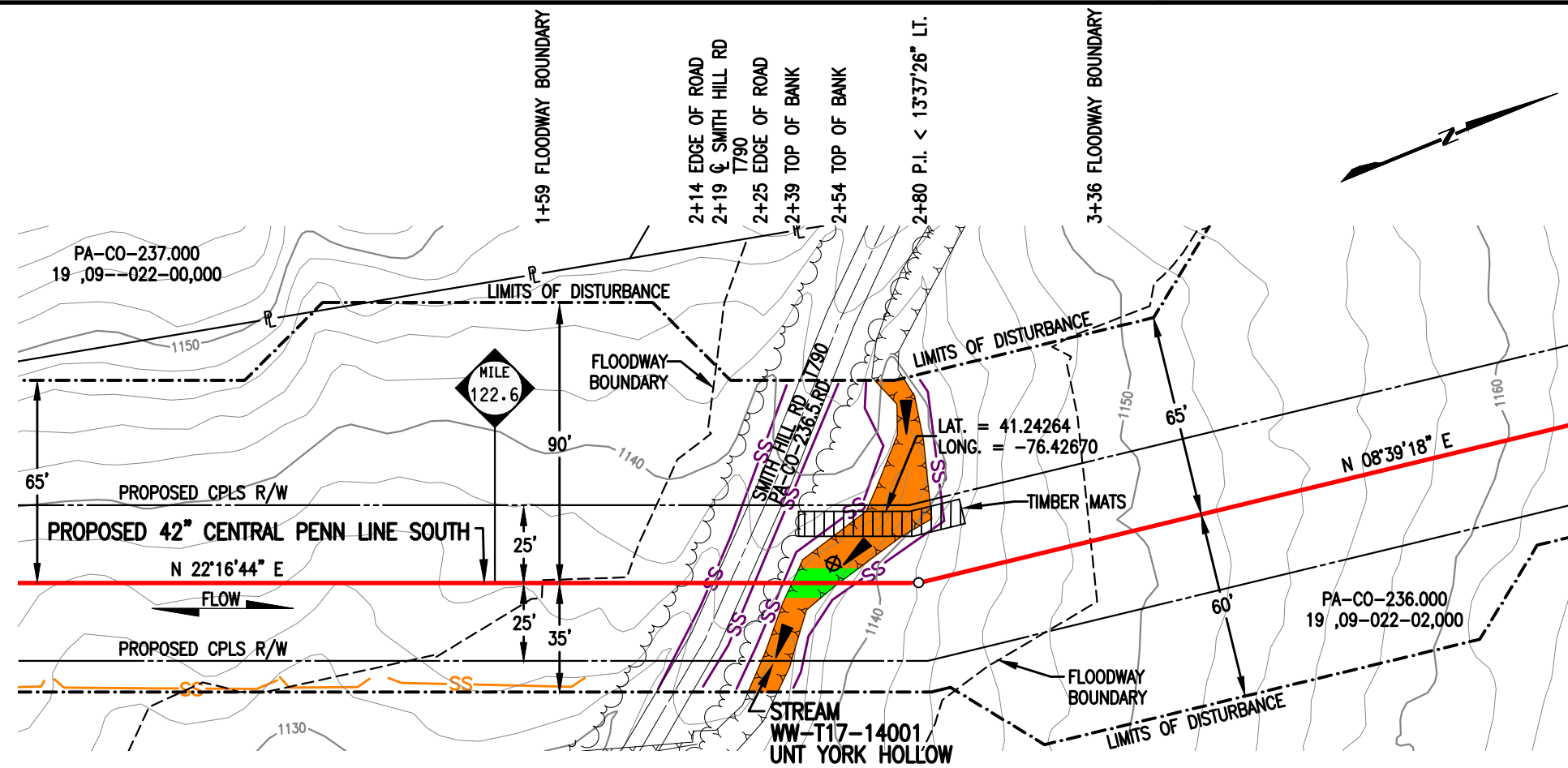
LEGEND

	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		

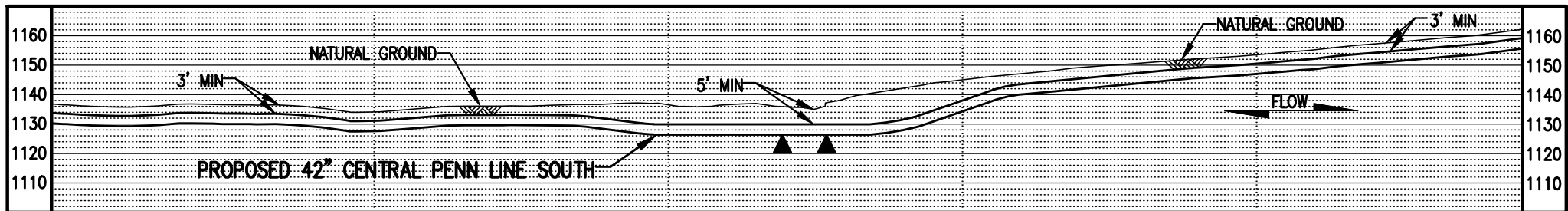
WOOD GROUP MUSTANG, INC.

	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-T15-14008 M.P. 121.28 JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ELR	DATE: 06/01/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	VC	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/121.28-01	SHEET 1
				DRAWING NUMBER: 24-1600-70-09-A/121.28-01		10/7/2016		Jlbeast		OF 1
				W.O. NO. 1161503						



PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-T17-14001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0266
PERMANENT STREAM DISTURBANCE	0.0035
TOTAL STREAM DISTURBANCE	0.0301
TEMPORARY FLOODWAY DISTURBANCE	0.2940
PERMANENT FLOODWAY DISTURBANCE	0.0350
TOTAL FLOODWAY DISTURBANCE	0.3290

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	14.99
STREAM LENGTH	124.92

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 1+00 SHOWN IS EQUAL TO STATION 6472+85 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 22' RT. OF M.P. 122.61, ELEV. = 1136.09' (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-T17-14001 M.P. 122.62 JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR MJH
2	10/25/16	VC	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: FH		DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ELR		DATE: 03/31/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/122.62-01	SHEET 1	
IWO: 1161503		10/24/2016	6:57am	OF 1	

STREAM DISTURBANCE:

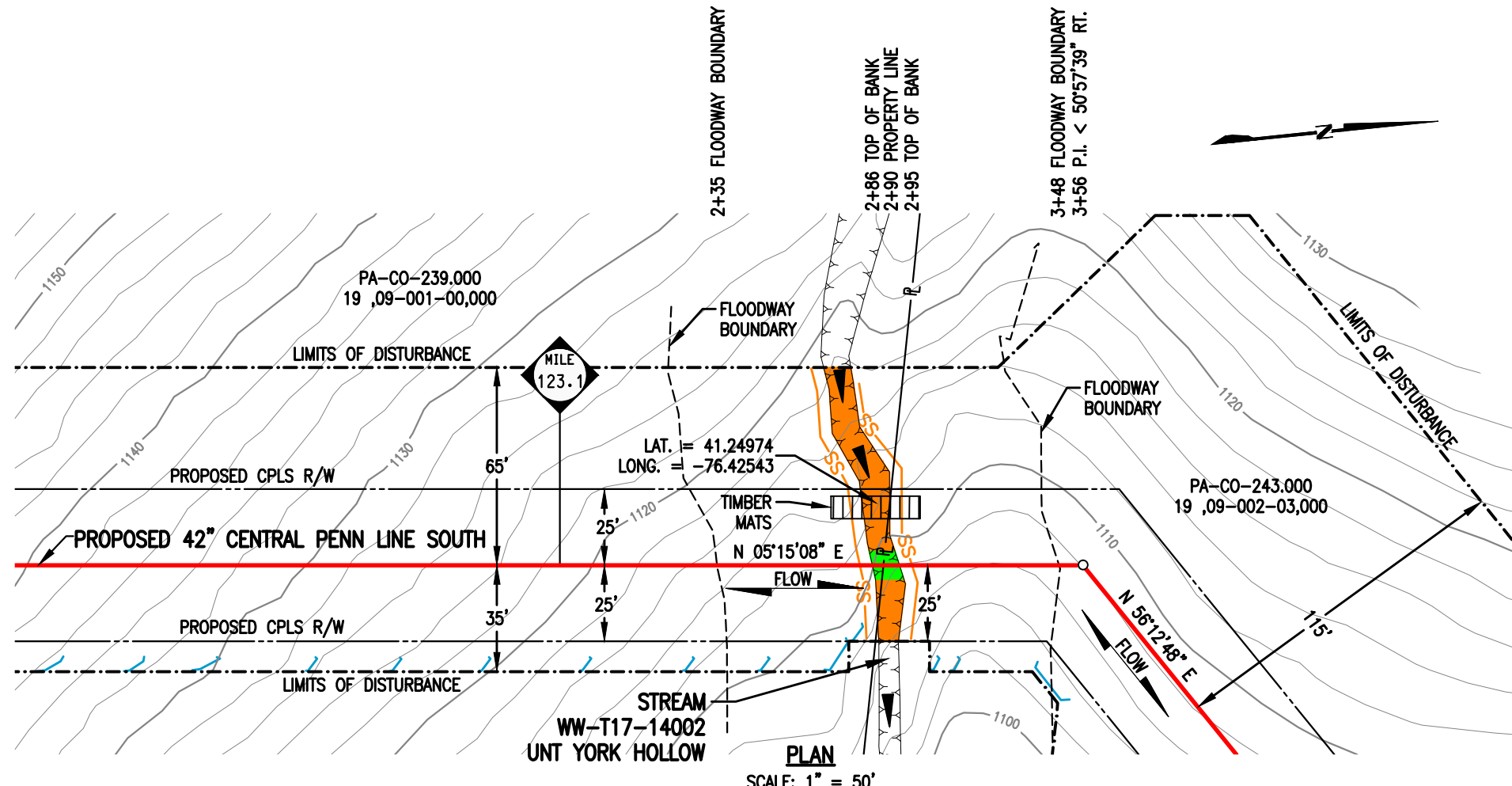
STREAM WW-T17-14002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0166
PERMANENT STREAM DISTURBANCE	0.0020
TOTAL STREAM DISTURBANCE	0.0186
TEMPORARY FLOODWAY DISTURBANCE	0.2214
PERMANENT FLOODWAY DISTURBANCE	0.0237
TOTAL FLOODWAY DISTURBANCE	0.2451
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	8.87
STREAM LENGTH	91.77

GENERAL NOTES:

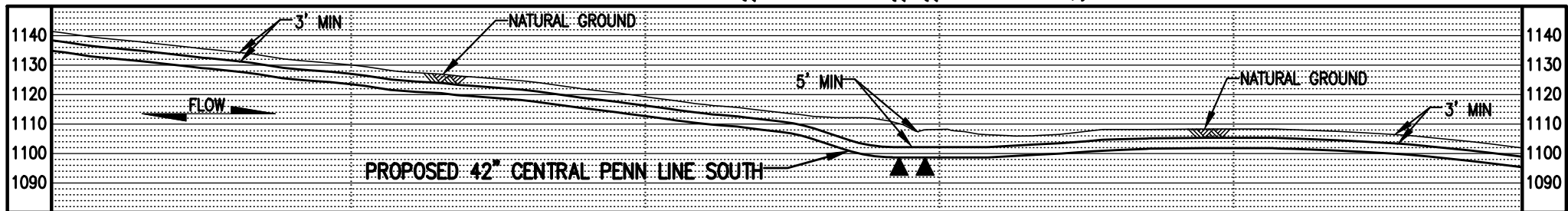
1. STREAM CROSSING METHOD SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. WATERBODIES WITHOUT A FEMA-ESTABLISHED FLOODPLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED LATERALLY FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STATION 2+00 SHOWN IS EQUAL TO STATION 6500+15 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

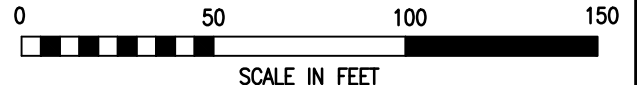
1. T.B.M. SURVEY CONTROL POINT - 82' RT. OF M.P. 123.15, ELEV. = 1092.00' (NAVD88).



SCALE: 1" = 50'

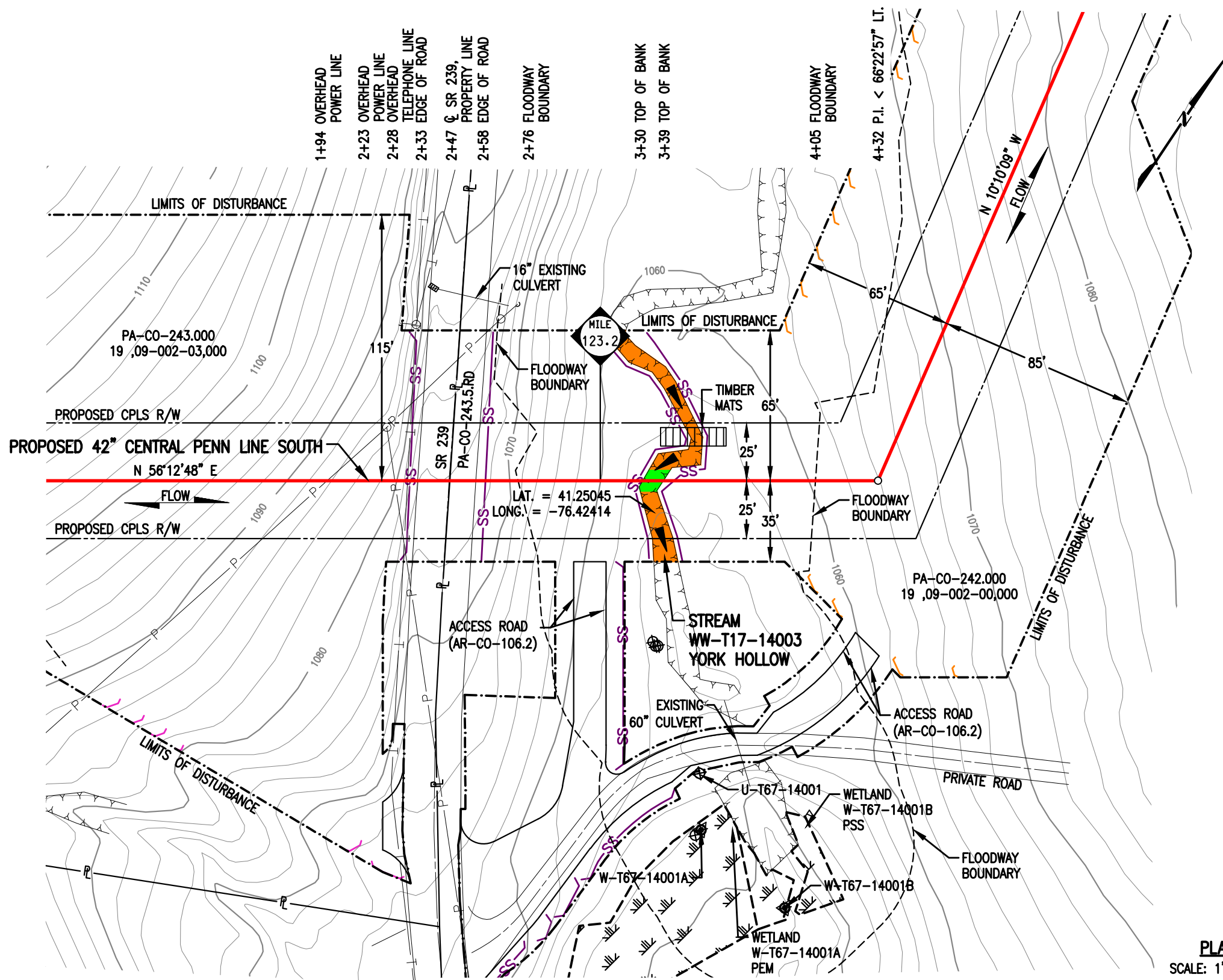


SCALE: 1" = 50' HORIZONTAL
1" = 50' VERTICAL



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
	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	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-T17-14002								
		M.P. 123.12								
		JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA								
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ELR	DATE: 03/31/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/123.12-01	SHEET 1
2	10/25/16	VC	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503		7:42am 10/24/2016 vqtran	OF 1



STREAM DISTURBANCE:

STREAM WW-T17-14003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0178
PERMANENT STREAM DISTURBANCE	0.0020
TOTAL STREAM DISTURBANCE	0.0198
TEMPORARY FLOODWAY DISTURBANCE	0.3372
PERMANENT FLOODWAY DISTURBANCE	0.0275
TOTAL FLOODWAY DISTURBANCE	0.3647
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	8.85
STREAM LENGTH	114.57

STREAM DISTURBANCE: ACCESS ROAD (AR-CO-106.2)

STREAM WW-T17-14003	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.1229
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.1229
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM LENGTH	0.00

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 6502+86 ON THE EROSION AND SEDIMENT CONTROL PLAN.
4. EQUIPMENT TO CROSS STREAM UTILIZING AN EXISTING CULVERT AND BRIDGE EQUIPMENT CROSSING (BEC) FOR ACCESS ROAD.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 7' LT. OF M.P. 123.20, ELEV. = 1060.32' (NAVD88).



LEGEND

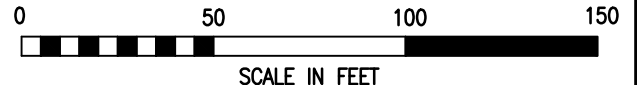
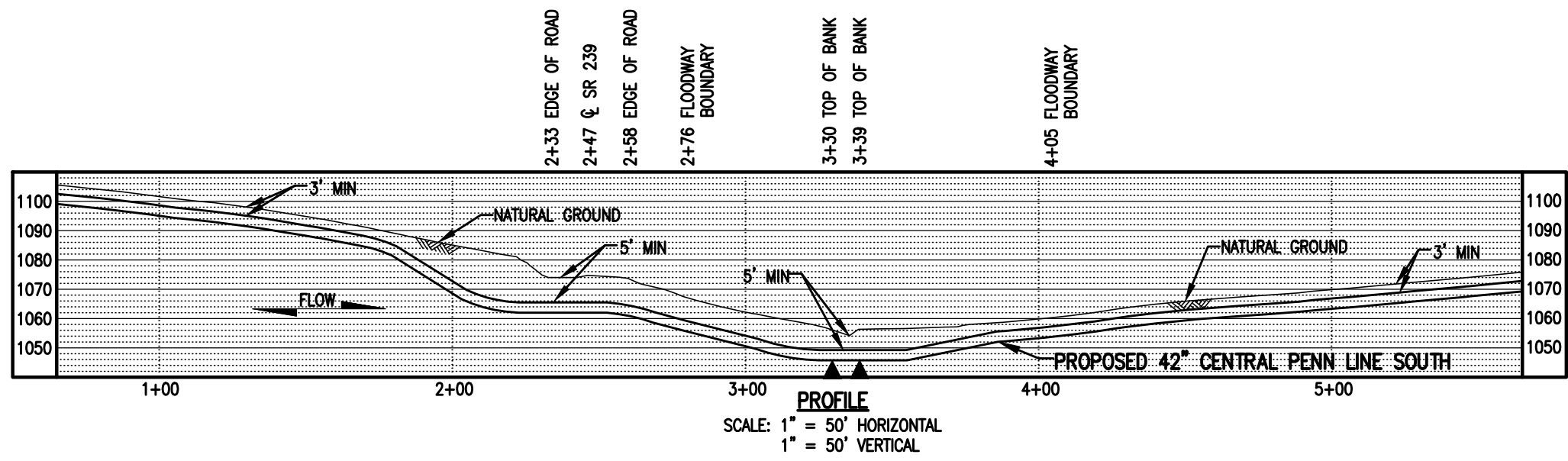
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- - - PROPOSED CPLS R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- ▨ WETLAND AREA
- ▶ STREAM FLOW
- EXISTING POWER LINE
- EXISTING FENCE

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

WOOD GROUP MUSTANG, INC.

- 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-T17-14003 © M.P. 123.20 JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ELR	DATE: 03/31/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	VC	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/123.20-01	SHEET 1
				W.O. NO.:	CHK.:	APP.:	1161503	10/11/2016	10/11/2016	OF 2



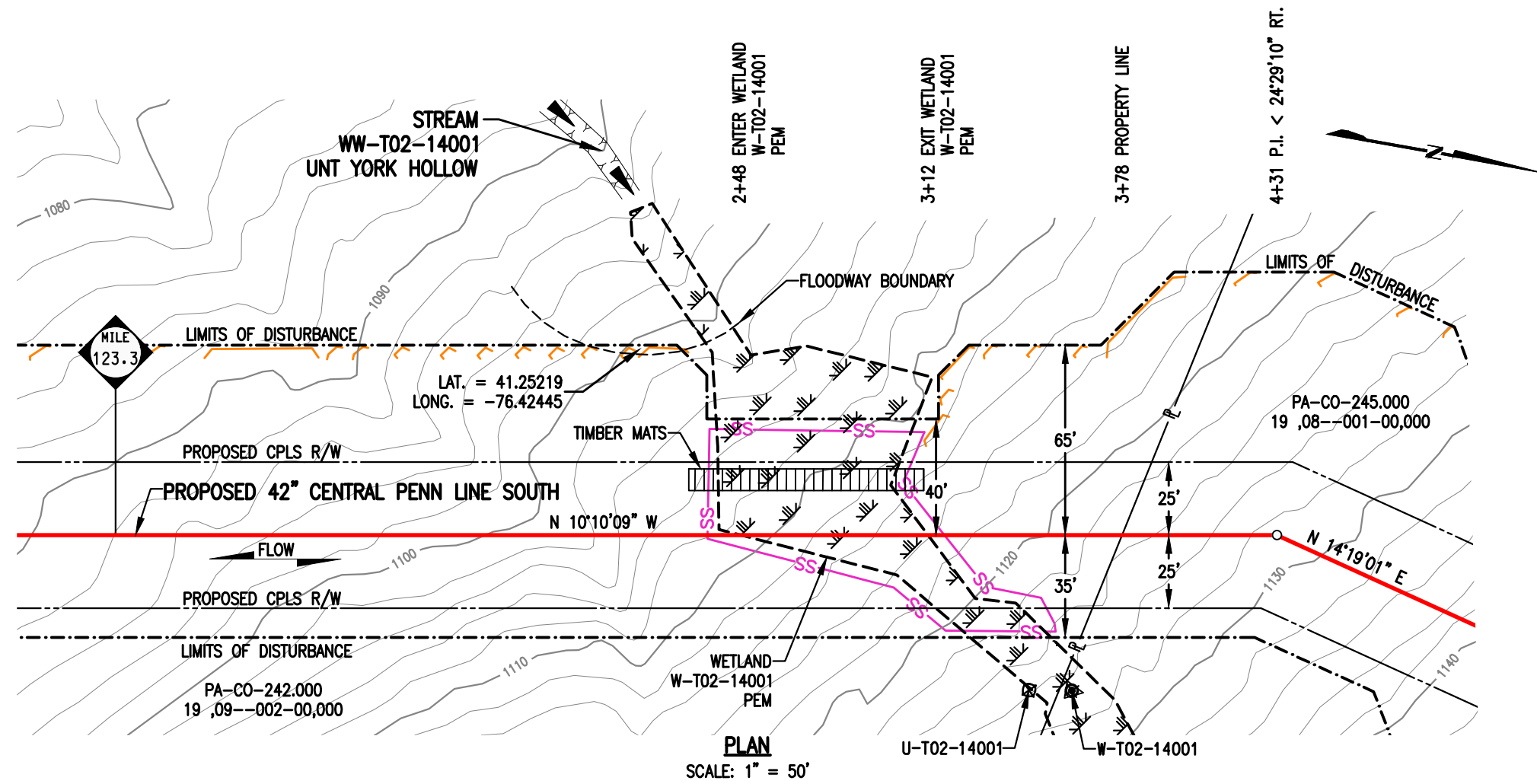
LEGEND

	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		TOP OF BANK
	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.
0	10/25/16	VC	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-T17-14003
M.P. 123.20
JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

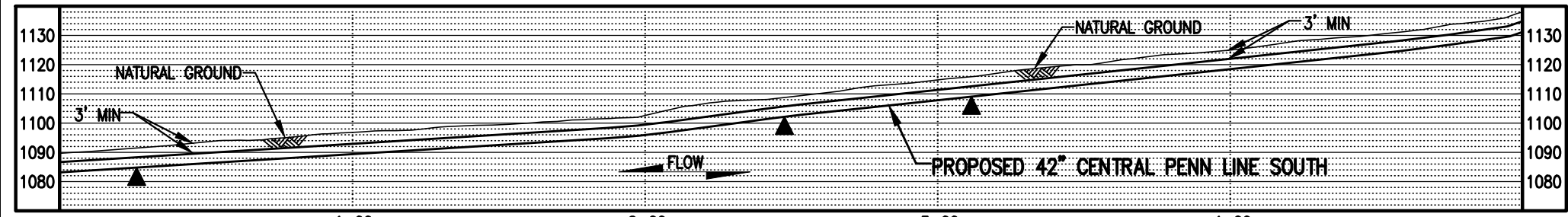
DRAWN BY: FH	DATE: 07/06/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ELR	DATE: 07/06/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 07/06/16	DRAWING NUMBER: 24-1600-70-09-A/123.20-01	SHEET 2
WO: 1161503		10/4/2016	OF 2



STREAM DISTURBANCE:

STREAM WW-T02-14001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.0017
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0017

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 6510+90 ON THE EROSION AND SEDIMENT CONTROL PLAN.
- SURVEY NOTES:**
1. T.B.M. SURVEY CONTROL POINT - 107' RT. OF M.P. 123.36, ELEV. = 1132.75' (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		

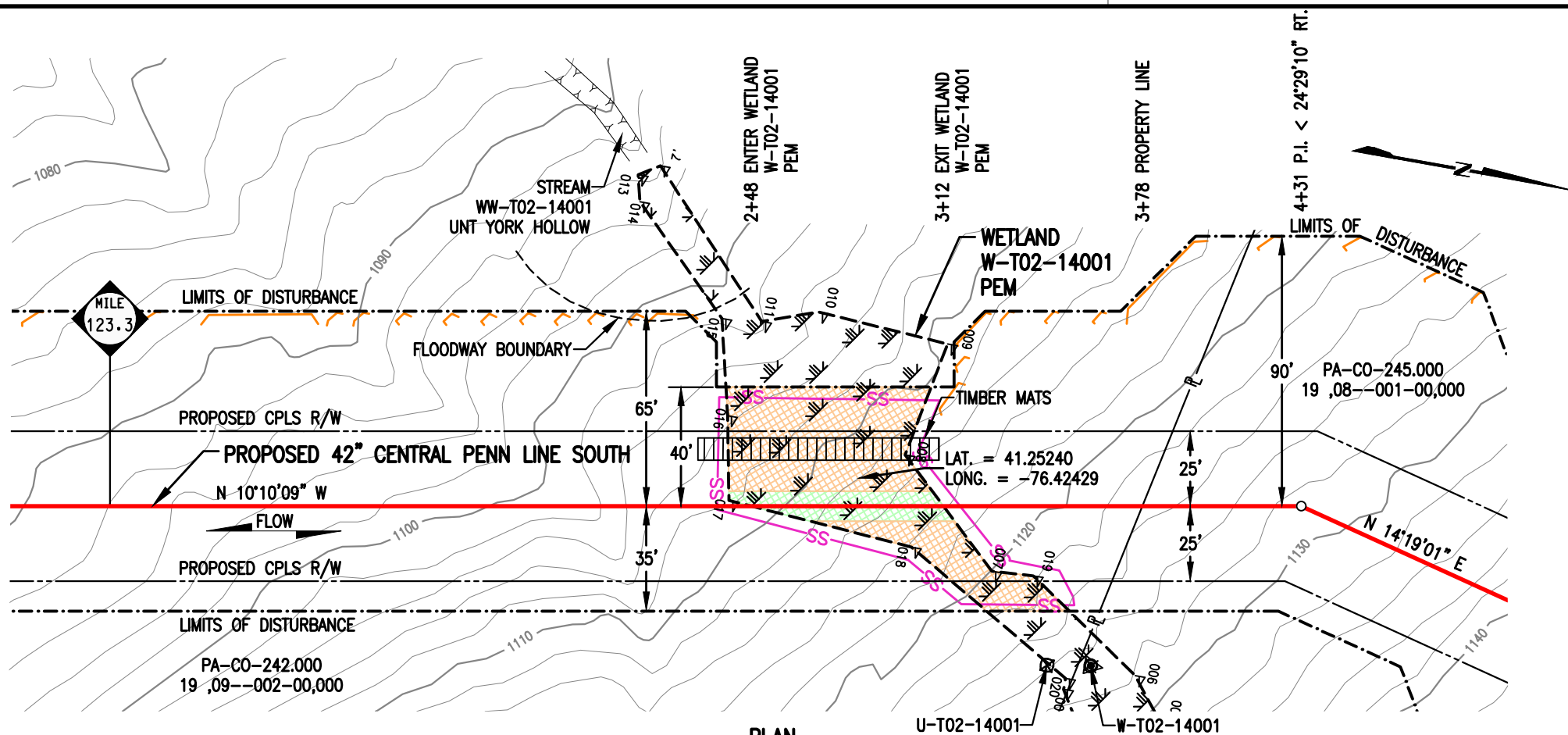
	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	24" SEDIMENT BARRIER
	32" SEDIMENT BARRIER
	TOP OF BANK
	PERMANENT STREAM IMPACT
	TEMPORARY STREAM IMPACT

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-T02-14001	
		© M.P. 123.33	
		JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
		Williams	

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	08/20/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	THL	05/20/15		1" = 50'
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	ML	06/01/15		
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	MJH	08/20/15		

ISSUED FOR CONSTRUCTION:	DRAWING NUMBER:	24-1600-70-09-A/123.33-01	SHEET 1
ISSUED FOR CONSTRUCTION:	DRAWING NUMBER:	24-1600-70-09-A/123.33-01	OF 1



PLAN
SCALE: 1" = 50'

WETLAND DISTURBANCE:

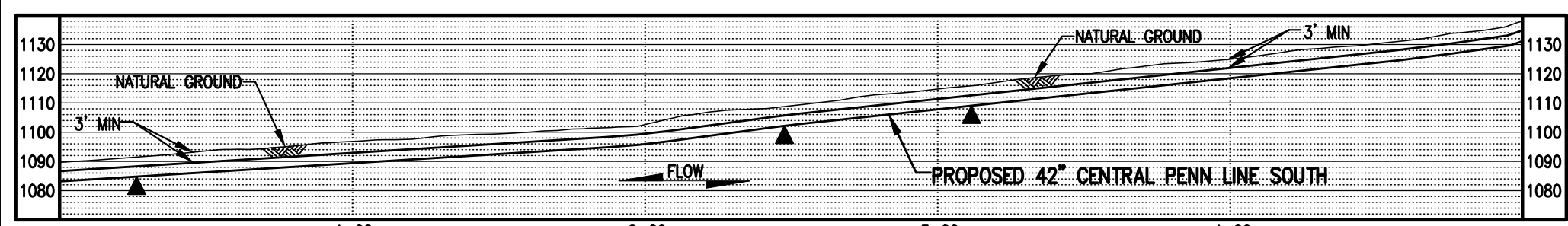
WETLAND W-T02-14001 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0695
PERMANENT DISTURBANCE	0.0143
TOTAL DISTURBANCE	0.0838

NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
2. STATION 1+00 SHOWN IS EQUAL TO STATION 6510+90 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. IRON ROD - 107' RT. OF M.P. 123.36, ELEV. = 1132.75' (NAVD88).



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



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

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08/20/15	AO	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH
1	02/03/16	AT	ISSUED FOR INTERNAL USE	1161503	CLR	MJH
2	10/25/16	MA	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
WETLAND CROSSING W-T02-14001
M.P. 123.35
JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA

DRAWN BY: AO	DATE: 05/20/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 06/01/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/123.34-01	SHEET 1
IWO: 1161503		6:32am 10/4/2016 jibeast	OF 1

STREAM DISTURBANCE:

STREAM WW-T06-14002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0699
PERMANENT STREAM DISTURBANCE	0.0093
TOTAL STREAM DISTURBANCE	0.0792
TEMPORARY FLOODWAY DISTURBANCE	0.1007
PERMANENT FLOODWAY DISTURBANCE	0.0119
TOTAL FLOODWAY DISTURBANCE	0.1126

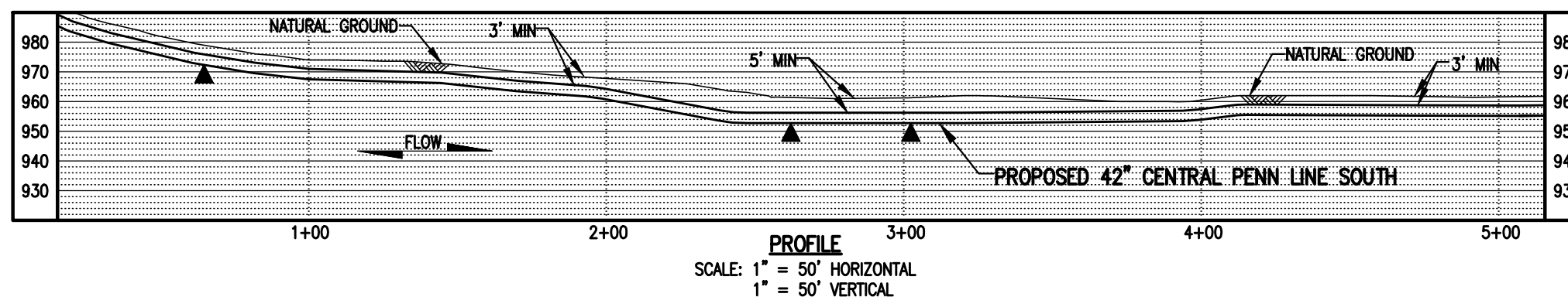
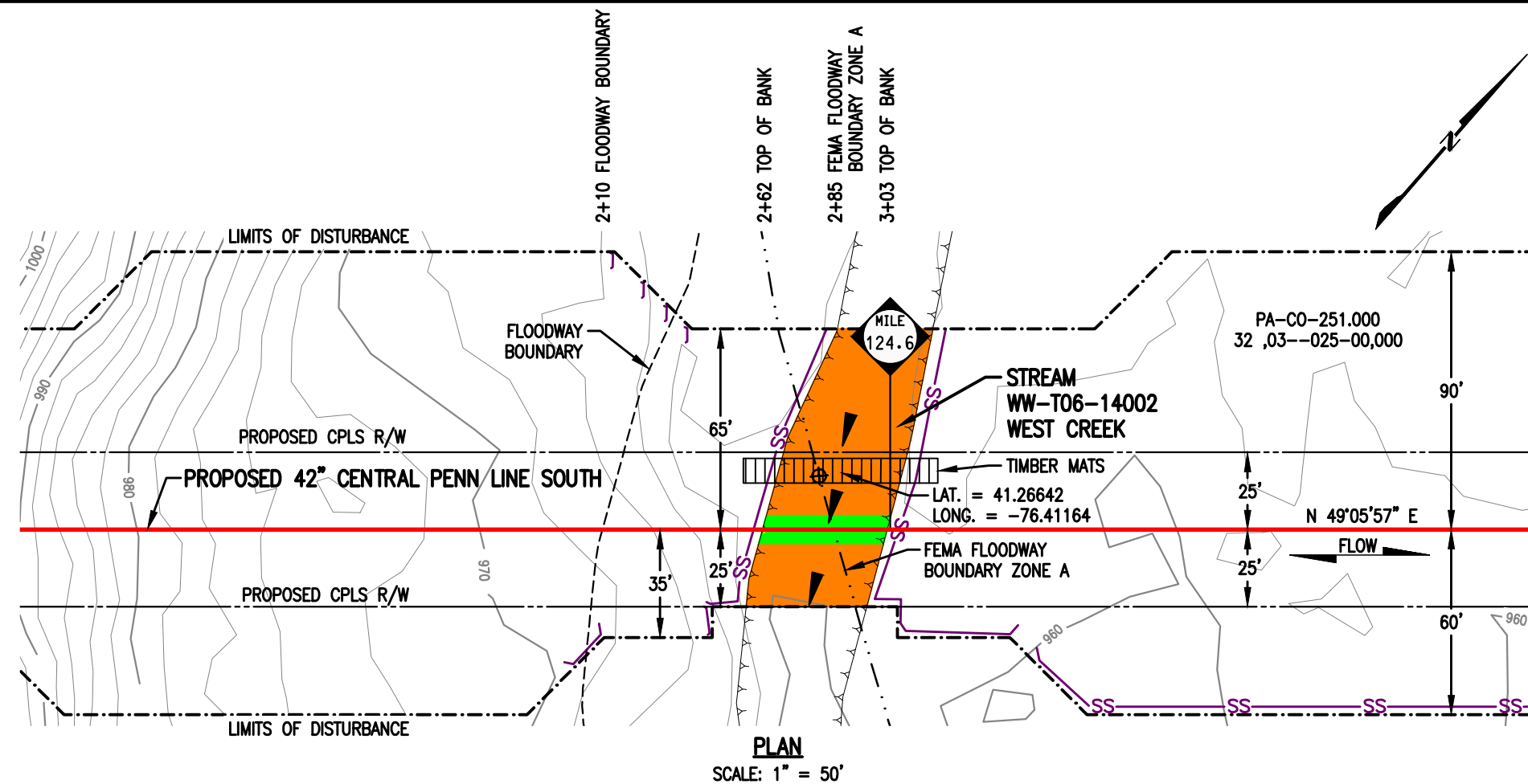
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	40.38
STREAM LENGTH	93.06

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 6576+50 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

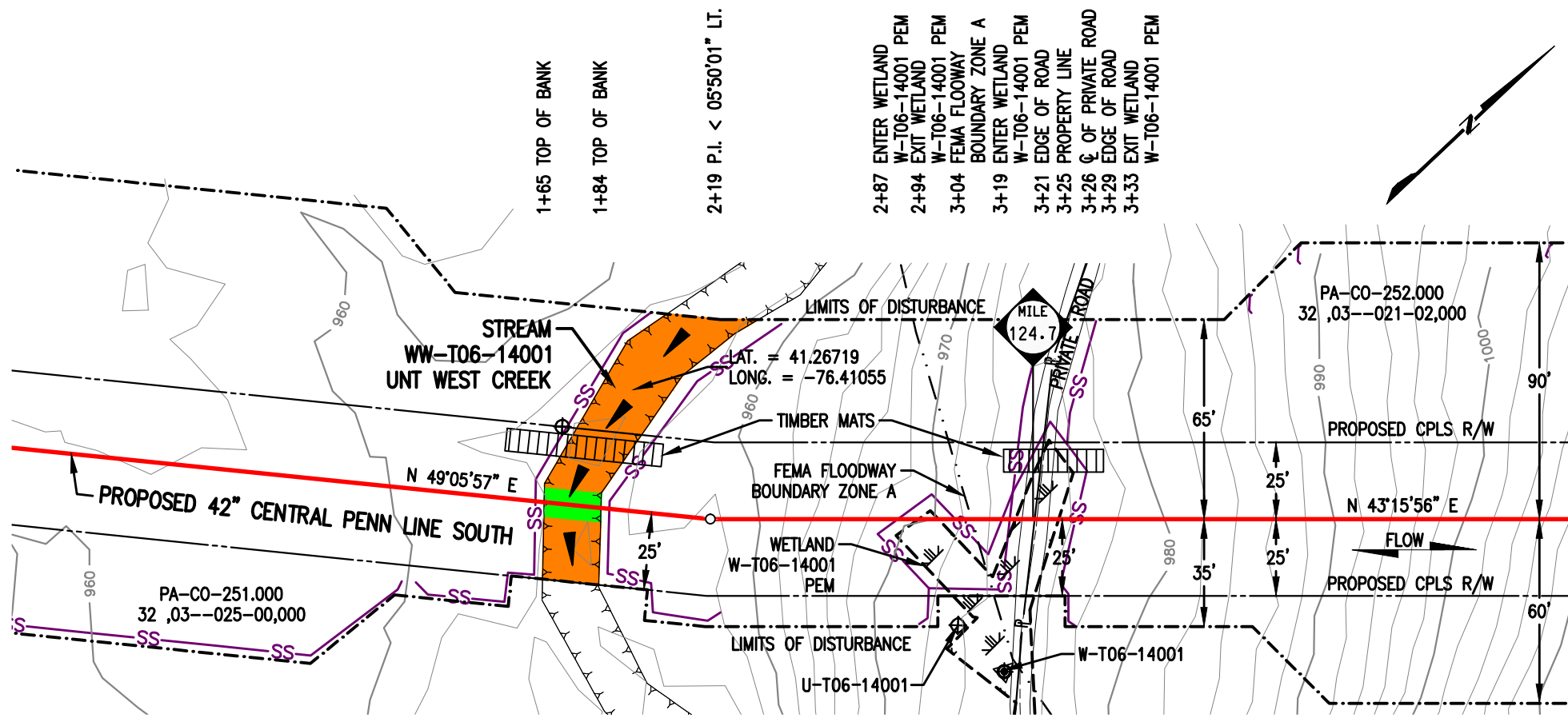
1. T.B.M. SURVEY CONTROL POINT - 45' RT. OF M.P. 124.70, ELEV. = 974.50' (NAVD88).



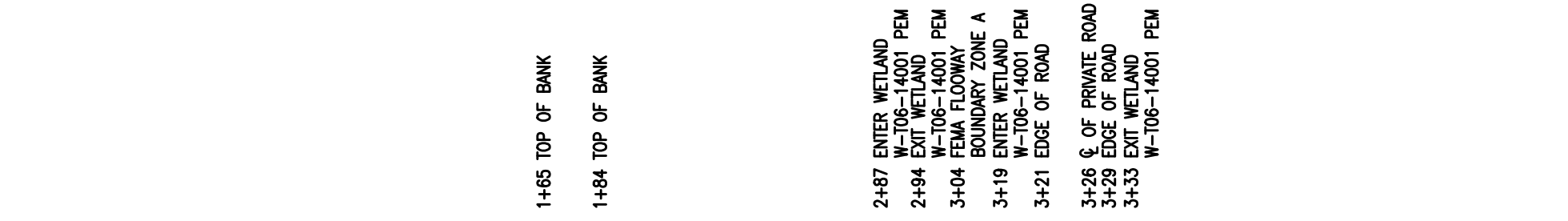
LEGEND

	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-T06-14002 M.P. 124.60 JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APPR.
0	08/20/15	FH	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: FH		DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: ELR		DATE: 03/31/15	ISSUED FOR CONSTRUCTION:	REVISION: 1	
APPROVED BY: MJH		DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/124.59-01	SHEET 1	
IWO: 1161503		10/24/2016	805sm	OF 1	



PLAN
SCALE: 1" = 50'



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

STREAM DISTURBANCE:

STREAM WW-T06-14001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0403
PERMANENT STREAM DISTURBANCE	0.0043
TOTAL STREAM DISTURBANCE	0.0446
TEMPORARY FLOODWAY DISTURBANCE	1.2574
PERMANENT FLOODWAY DISTURBANCE	0.1110
TOTAL FLOODWAY DISTURBANCE	1.3684

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	18.60
STREAM LENGTH	99.81

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 STATION 6581+92 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 45' RT. OF M.P. 124.70, ELEV. = 974.50' (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		PERMANENT STREAM IMPACT
			TEMPORARY STREAM IMPACT

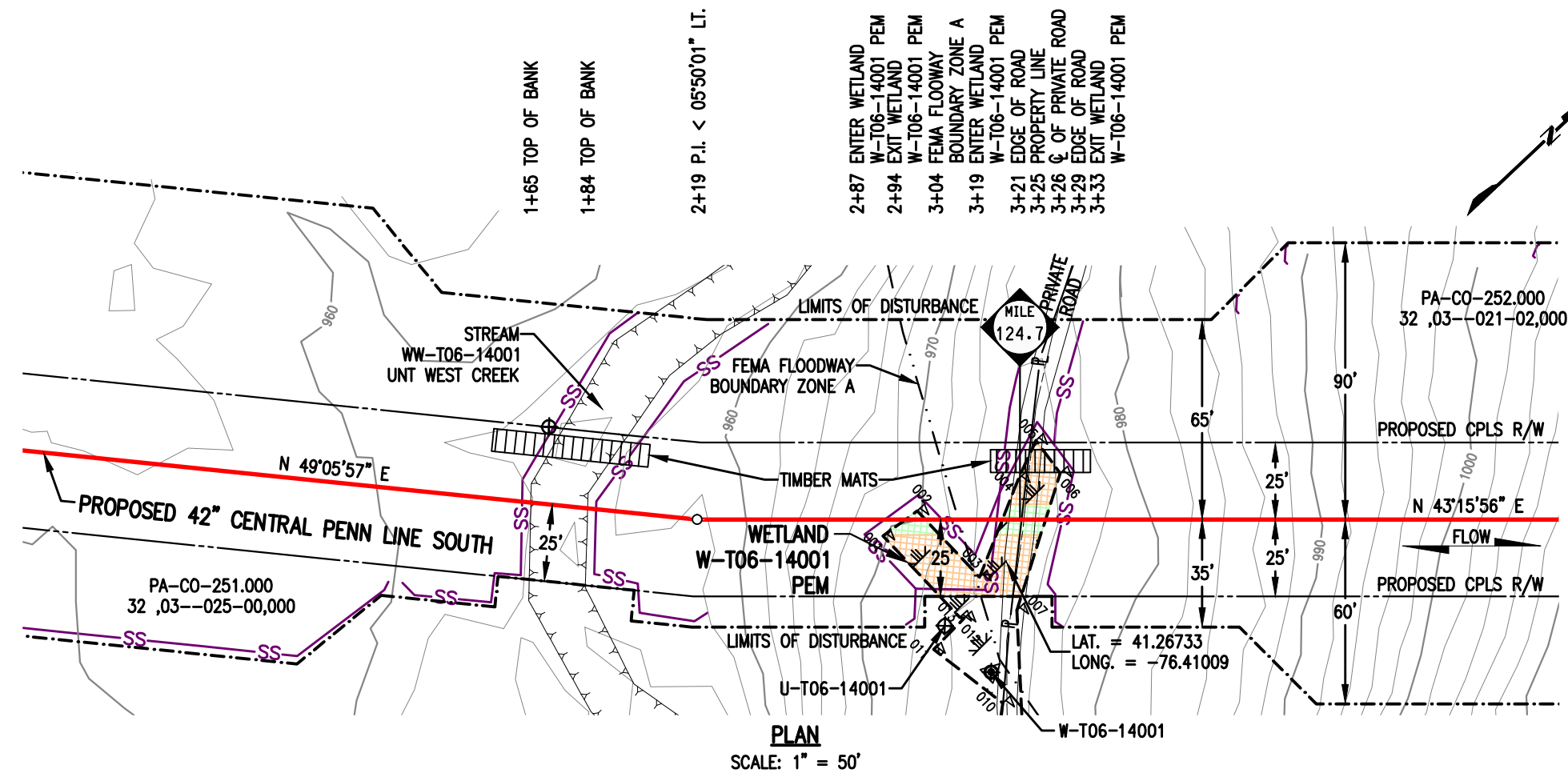
WOOD GROUP MUSTANG, INC.

	12" SEDIMENT BARRIER
	18" SEDIMENT BARRIER
	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 42" CENTRAL PENN LINE SOUTH						
				STREAM CROSSING WW-T06-14001						
				M.P. 124.67						
				JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: FH	DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	FH	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ELR	DATE: 03/31/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	LN	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-09-A/124.67-01	SHEET 1
2	10/25/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503		6-S4am	OF 1

WETLAND DISTURBANCE:

WETLAND W-T06-14001 (EV)	ACRE
TEMPORARY DISTURBANCE	0.0196
PERMANENT DISTURBANCE	0.0048
TOTAL DISTURBANCE	0.0244



1+65 TOP OF BANK
1+84 TOP OF BANK
2+19 P.I. < 05'50"01" Lt.

2+87 ENTER WETLAND W-T06-14001 PEM
2+94 EXIT WETLAND W-T06-14001 PEM
3+04 FEMA FLOWWAY BOUNDARY ZONE A
3+19 ENTER WETLAND W-T06-14001 PEM
3+21 EDGE OF ROAD
3+25 PROPERTY LINE
3+26 Q OF PRIVATE ROAD
3+29 EDGE OF ROAD
3+33 EXIT WETLAND W-T06-14001 PEM

1+65 TOP OF BANK
1+84 TOP OF BANK

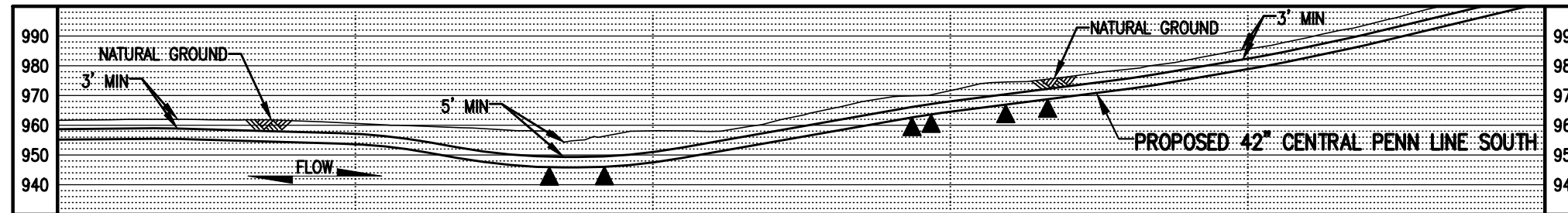
2+87 ENTER WETLAND W-T06-14001 PEM
2+94 EXIT WETLAND W-T06-14001 PEM
3+04 FEMA FLOWWAY BOUNDARY ZONE A
3+19 ENTER WETLAND W-T06-14001 PEM
3+21 EDGE OF ROAD
3+26 Q OF PRIVATE ROAD
3+29 EDGE OF ROAD
3+33 EXIT WETLAND W-T06-14001 PEM

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC).
- STATION 1+00 SHOWN IS EQUAL TO STATION 6581+92 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 45' RT. OF M.P. 124.70, ELEV. = 974.50' (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-T06-14001 M.P. 124.70 JACKSON TOWNSHIP, COLUMBIA COUNTY, PENNSYLVANIA										
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: AO	DATE: 03/31/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/20/15	AO	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: ML	DATE: 03/31/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	10/25/16	MA	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 06/08/15	DRAWING NUMBER: 24-1600-70-20-A/124.69-01	SHEET 1
										OF 1