

*Atlantic Sunrise Project – PA DEP Chapter 105 Joint Permit Application
Transcontinental Gas Pipe Line Company, LLC
Wyoming County*

***ATTACHMENT H -3
HDD AND CONVENTIONAL BORE CONTINGENCIES
CHAPTER 105 IMPACT MAPPING
(UNDER SEPARATE COVER)***

Revised April 2017

ATTACHMENT H-3
CONTINGENCY PLAN SET
WYOMING COUNTY



Transcontinental Gas Pipe Line Company LLC
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
CONTINGENCY PLAN IMPACT MAPS

M.P. 27.21 TO M.P. 50.58

WYOMING COUNTY, PENNSYLVANIA

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	1 OF 6	0
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	2 OF 6	0
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	3 OF 6	0
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	4 OF 6	0
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	5 OF 6	0
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	6 OF 6	0
24-1601-70-09A-A/35.08-01	WW-T95-19004A	1 OF 1	0
24-1601-70-20A-A/35.08-01	W-T21-19001 / W-T21-19001-1	1 OF 1	0
24-1601-70-20A-A/40.84-01	W-T12-19003C-1	1 OF 1	0
24-1601-70-09A-A/40.87-01	WW-T93-20002	1 OF 1	0

24-1601-70-09A-A-02_Wyoming-PKG
Issued for PADEP Submittal #3
Rev. 0
04-12-2017

ISSUED DATE: APRIL 12, 2017



Transcontinental Gas Pipe Line Company LLC
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
CONTINGENCY PLAN IMPACT MAPS

M.P. 27.21 TO M.P. 50.58

WYOMING COUNTY, PENNSYLVANIA

DRAWING NUMBER	DESCRIPTION	SHEET	REVISION
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	1 OF 6	0
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24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	3 OF 6	0
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	4 OF 6	0
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	5 OF 6	0
24-1601-70-09A-A/34.98-01	WW-T21-19001 & WW-T93-19001	6 OF 6	0
24-1601-70-09A-A/35.08-01	WW-T95-19004A	1 OF 1	0
24-1601-70-20A-A/35.08-01	W-T21-19001 / W-T21-19001-1	1 OF 1	0
24-1601-70-20A-A/40.84-01	W-T12-19003C-1	1 OF 1	0
24-1601-70-09A-A/40.87-01	WW-T93-20002	1 OF 1	0

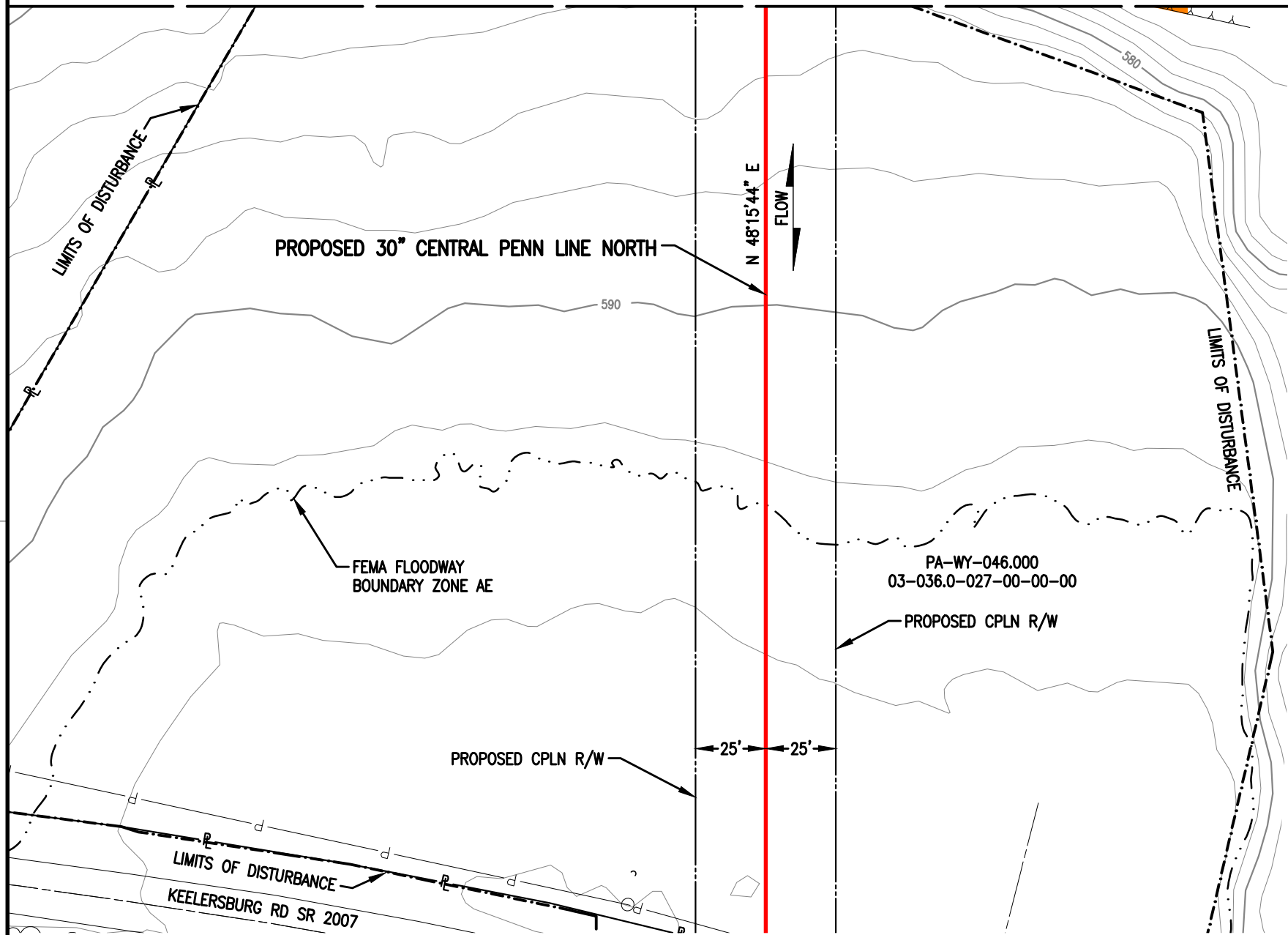
WOOD GROUP MUSTANG INC.
17325 PARK ROW
HOUSTON TX, 77084
(832) 809-8000

MAW JAW HWANG
PA. PE NO. PE077841

ISSUED FOR PADEP SUBMITTAL #3

ISSUED DATE: APRIL 12, 2017

MATCH LINE SEE SHEET 2 OF 6



PLAN
SCALE: 1" = 50'

STREAM DISTURBANCE:

STREAM WW-T21-19001	ACRE
TEMPORARY STREAM DISTURBANCE	6.6149
PERMANENT STREAM DISTURBANCE	0.1834
TOTAL STREAM DISTURBANCE	6.7983
TEMPORARY FLOODWAY DISTURBANCE	0.0958
PERMANENT FLOODWAY DISTURBANCE	4.4815
TOTAL FLOODWAY DISTURBANCE	4.5773

STREAM WW-T93-19001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0232
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.00232
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	798.73
STREAM TEMPORARY IMPACT LENGTH	290.46
STREAM PERMANENT IMPACT LENGTH	10.12
STREAM TOTAL IMPACT LENGTH	300.58

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	20.08
STREAM TEMPORARY IMPACT LENGTH	235.29
STREAM PERMANENT IMPACT LENGTH	0.00
STREAM TOTAL IMPACT LENGTH	235.29

STREAM WW-T21-19001 (ACCESS ROAD)	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.5656
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.5656

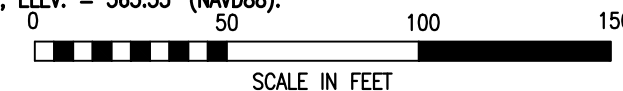
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	0.00
STREAM TEMPORARY IMPACT LENGTH	0.00
STREAM PERMANENT IMPACT LENGTH	0.00
STREAM TOTAL IMPACT LENGTH	0.00

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE COFFER DAM (CD).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. TRANSCO WILL REPLANT THE RIPARIAN FOREST BUFFER OF STREAM WW-T21-19001 WITHIN THE LIMITS OF THE FEMA FLOODWAY BOUNDARY
4. STATION 1+00 SHOWN IS EQUAL TO STATION 1842+66 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 13' LT. OF M.P. 39.92, ELEV. = 565.35' (NAVD88).



LEGEND

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

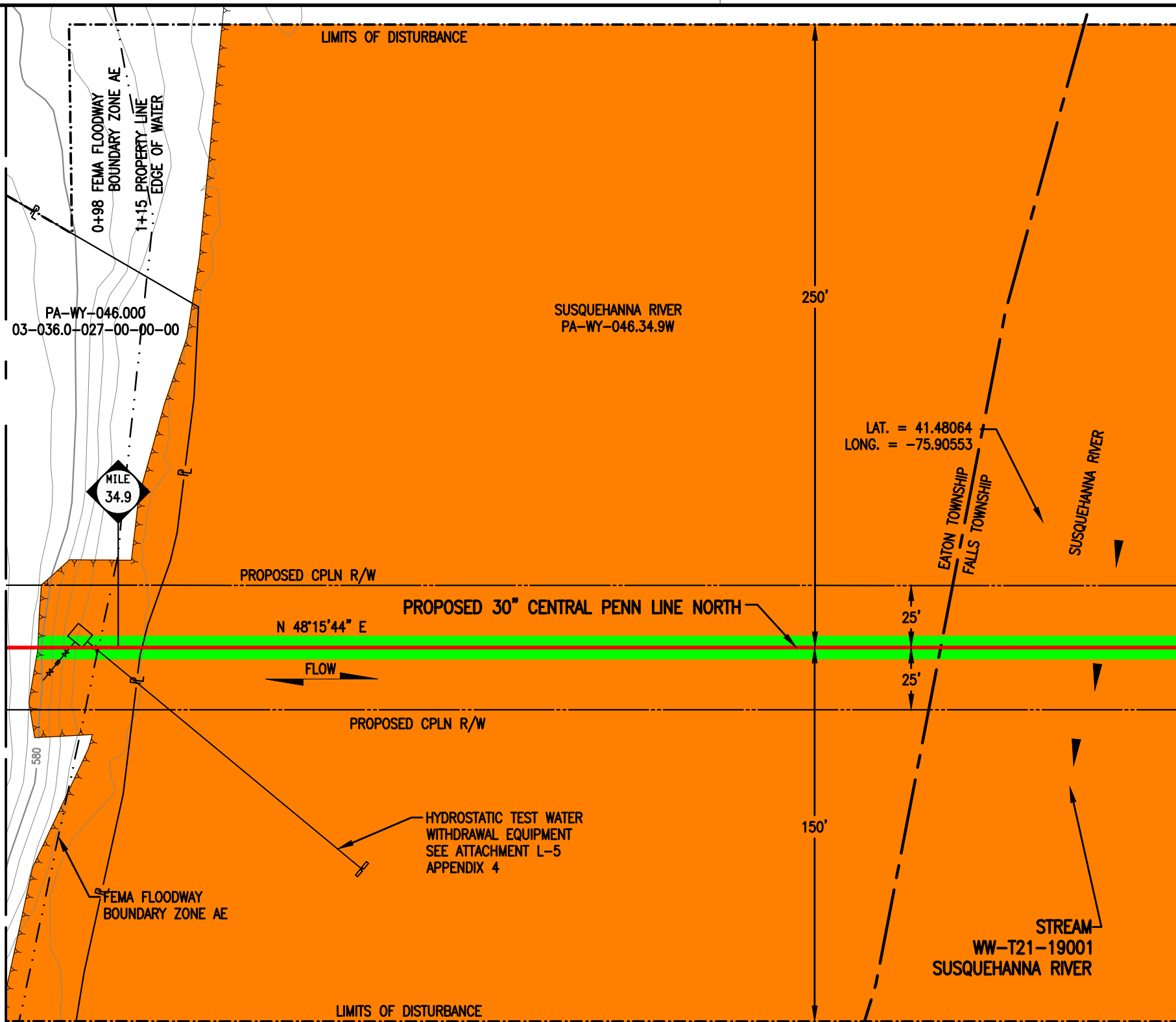
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24-1601-70-09-A/34.98-02		WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
CONTINGENCY PLAN IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
EATON TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: THL	DATE: 03/30/17	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: AT	DATE: 03/30/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 03/30/17	DRAWING NUMBER: 24-1601-70-09A-A/34.98-01	SHEET 1
WC: 1161481		12:58pm 4/28/2017 t2e	OF 6

MATCH LINE SEE SHEET 1 OF 6

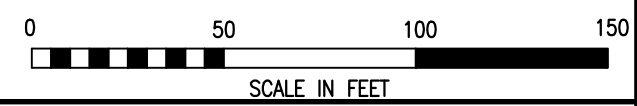
MATCH LINE SEE SHEET 3 OF 6



STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 6
SEE PROFILE ON SHEET 4 OF 6

GENERAL NOTE:

1. PIPELINE INSTALLATION WILL BE COMPLETED UTILIZING THE PRIMARY CROSSING METHOD REFERENCED ABOVE; EQUIPMENT TO CROSS STREAM USING A BRIDGE EQUIPMENT CROSSING (BEC). ALL TYPICALS FOR THE CROSSING METHODS AND BMPS REFERENCED WITHIN THIS PACKAGE ARE INCLUDED WITHIN THE "BEST MANAGEMENT PRACTICES AND QUANTITIES PLAN SET" (BMP PLAN SET), WHICH IS INCLUDED AT THE BACK OF THIS PACKAGE. THE BMP PLAN SET IS ALSO INCLUDED WITHIN ATTACHMENT M OF THE JOINT PERMIT APPLICATION, ALONG WITH THE EROSION AND SEDIMENT CONTROL PLANS AND NARRATIVES.



PLAN
SCALE: 1" = 50'

LEGEND

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

DRAWING NO.		REFERENCE TITLE				
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NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3	1161481	CLR	MJH

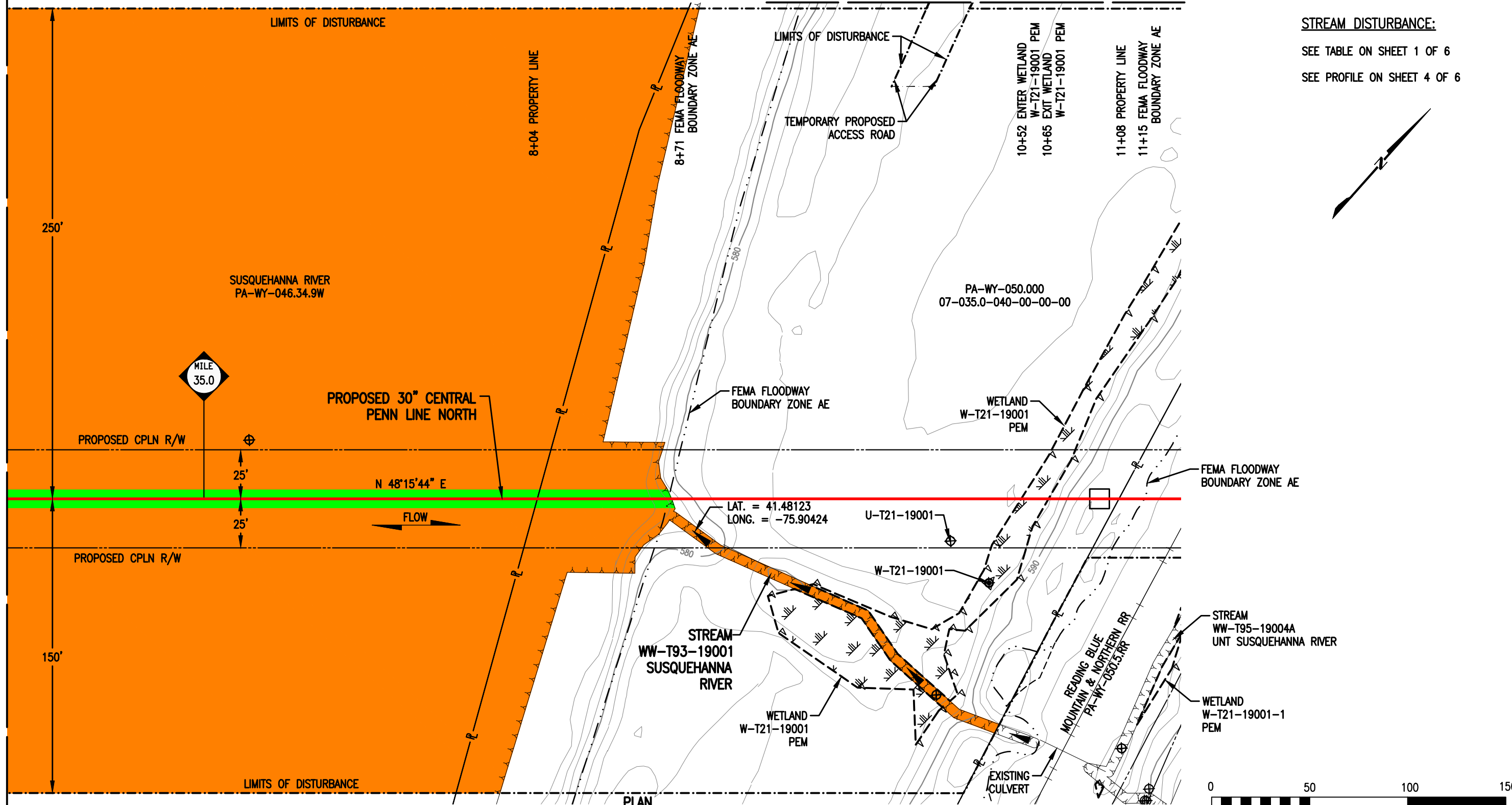
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
CONTINGENCY PLAN IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
EATON & FALLS TOWNSHIPS, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: THL	DATE: 03/30/17	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: AT	DATE: 03/30/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 03/30/17	DRAWING NUMBER: 24-1601-70-09A-A/34.98-01	SHEET 2
WO: 1161481		8/06am 4/26/2017 t3le	6

MATCH LINE SEE SHEET 5 OF 6

STREAM DISTURBANCE:
SEE TABLE ON SHEET 1 OF 6
SEE PROFILE ON SHEET 4 OF 6

MATCH LINE SEE SHEET 2 OF 6



LEGEND	
	PROPOSED 30" CENTRAL PENN LINE NORTH
	EXISTING PIPELINES
	EXISTING TGPL R/W
	LIMITS OF DISTURBANCE
	PROPOSED CPLN R/W
	PROPERTY LINE
	FOREIGN PIPELINE
	WETLAND AREA
	STREAM FLOW
	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

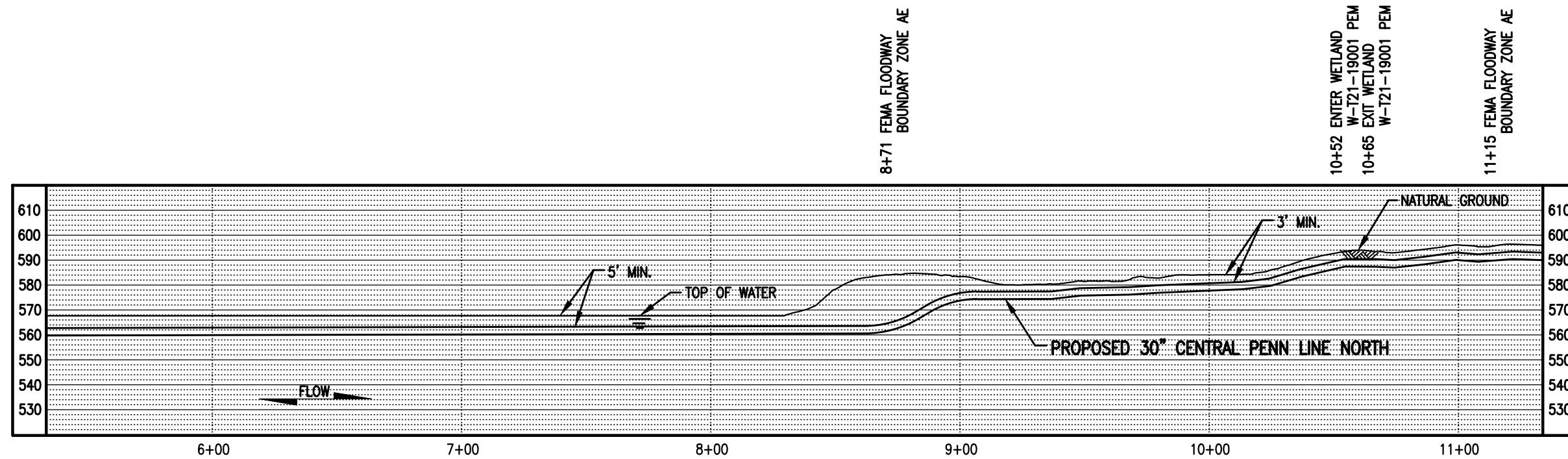
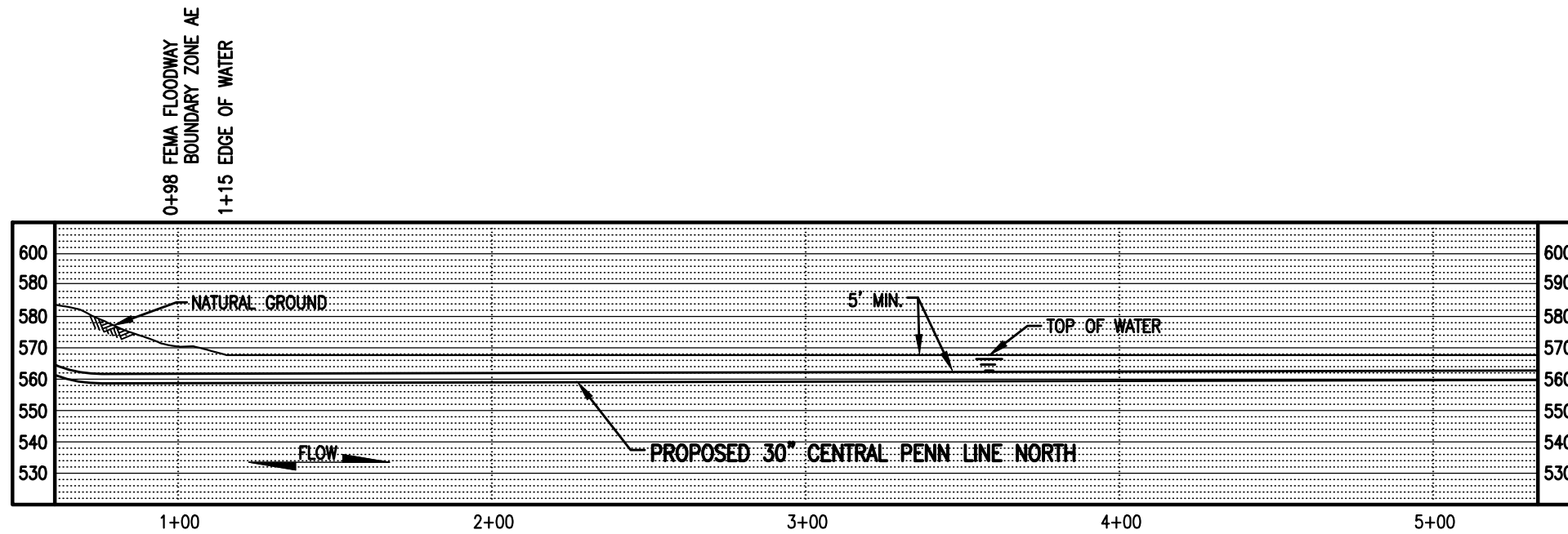
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24-1601-70-09-A/34.98-02		WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
CONTINGENCY PLAN IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL	DATE: 03/30/17	ISSUED FOR BID:	SCALE: 1" = 50'
							CHECKED BY: AT	DATE: 03/30/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 03/30/17	DRAWING NUMBER: 24-1601-70-09A-A/34.98-01	SHEET 3
							WC: 1161481	4/26/2017	t3le	OF 6

ALL TABLES:

SEE SHEET 1 OF 6
SEE SHEET 2 & 3 OF 6 FOR PLAN VIEWS



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

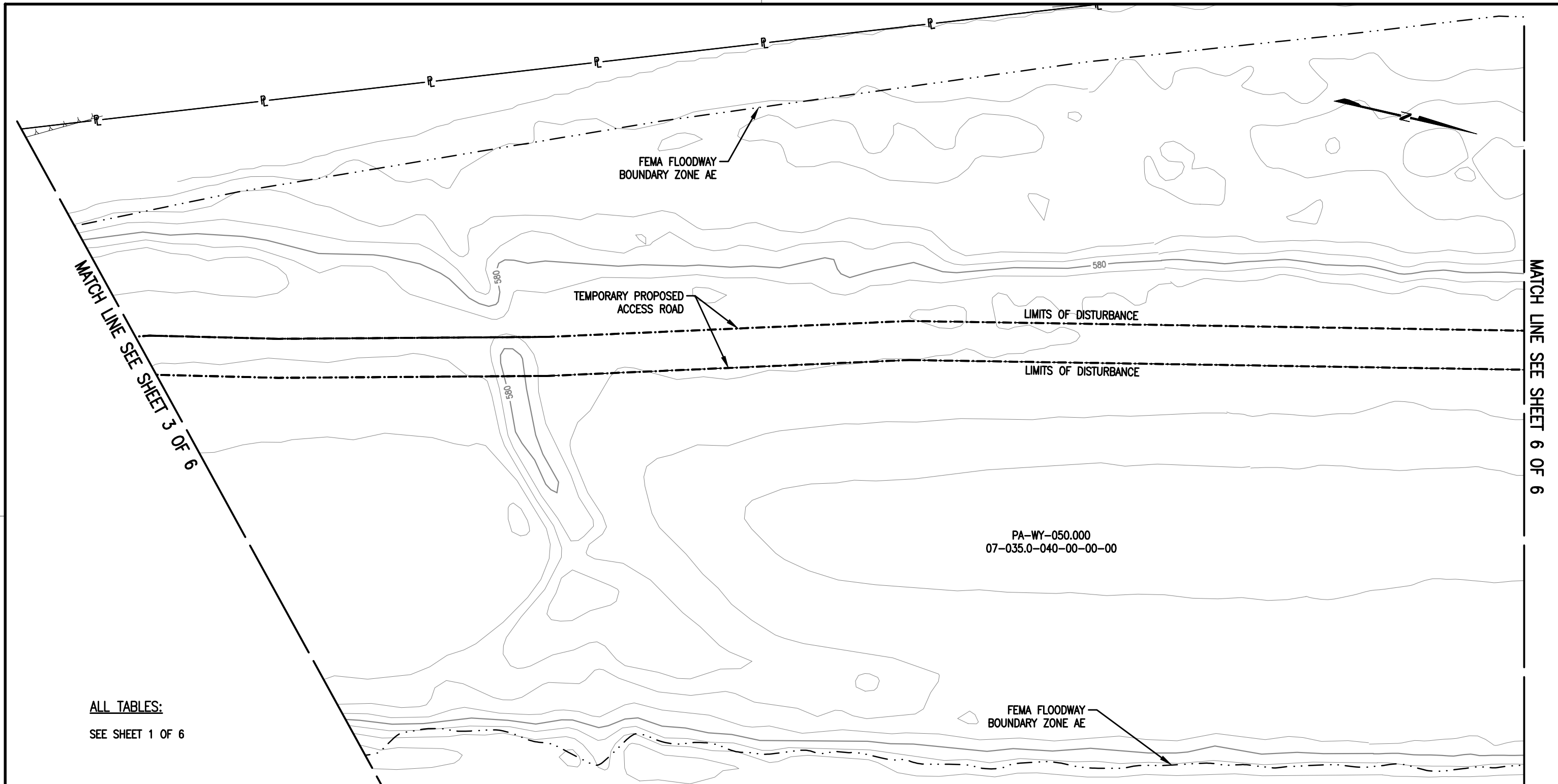


LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND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

DRAWING NO.		REFERENCE TITLE	
24-1601-70-09-A/34.98-02		WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS	
NO.	DATE	BY	REVISION DESCRIPTION
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
CONTINGENCY PLAN IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: THL	DATE: 03/30/17	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: AT	DATE: 03/30/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 03/30/17	DRAWING NUMBER: 24-1601-70-09A-A/34.98-01	SHEET 4
WO: 1161481			6



MATCH LINE SEE SHEET 3 OF 6

MATCH LINE SEE SHEET 6 OF 6

FEMA FLOODWAY
BOUNDARY ZONE AE

TEMPORARY PROPOSED
ACCESS ROAD

LIMITS OF DISTURBANCE

LIMITS OF DISTURBANCE

PA-WY-050.000
07-035.0-040-00-00-00

FEMA FLOODWAY
BOUNDARY ZONE AE

ALL TABLES:
SEE SHEET 1 OF 6

PLAN
SCALE: 1" = 50'



LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	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				
24-1601-70-09-A/34.98-02		WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3	1161481	CLR	MJH

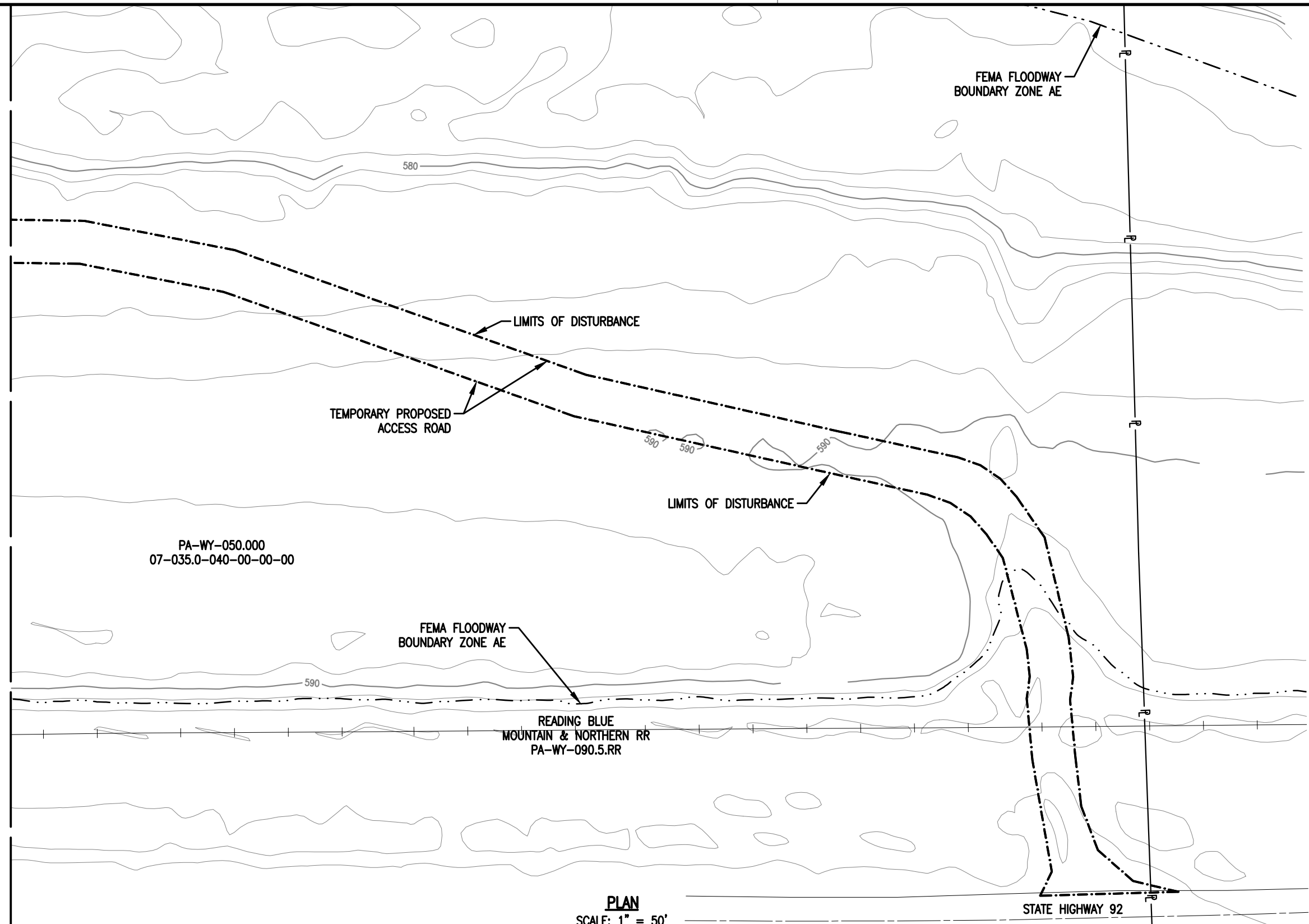
TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
CONTINGENCY PLAN IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: THL	DATE: 04/22/17	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: AT	DATE: 04/22/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 04/22/17	DRAWING NUMBER: 24-1601-70-09A-A/34.98-01	SHEET 5
WC: 1161481	4/26/2017 t3le	OF 6	

ALL TABLES:
SEE SHEET 1 OF 6



MATCH LINE SEE SHEET 5 OF 6



PA-WY-050.000
07-035.0-040-00-00-00

READING BLUE
MOUNTAIN & NORTHERN RR
PA-WY-090.5.RR

STATE HIGHWAY 92

PLAN
SCALE: 1" = 50'



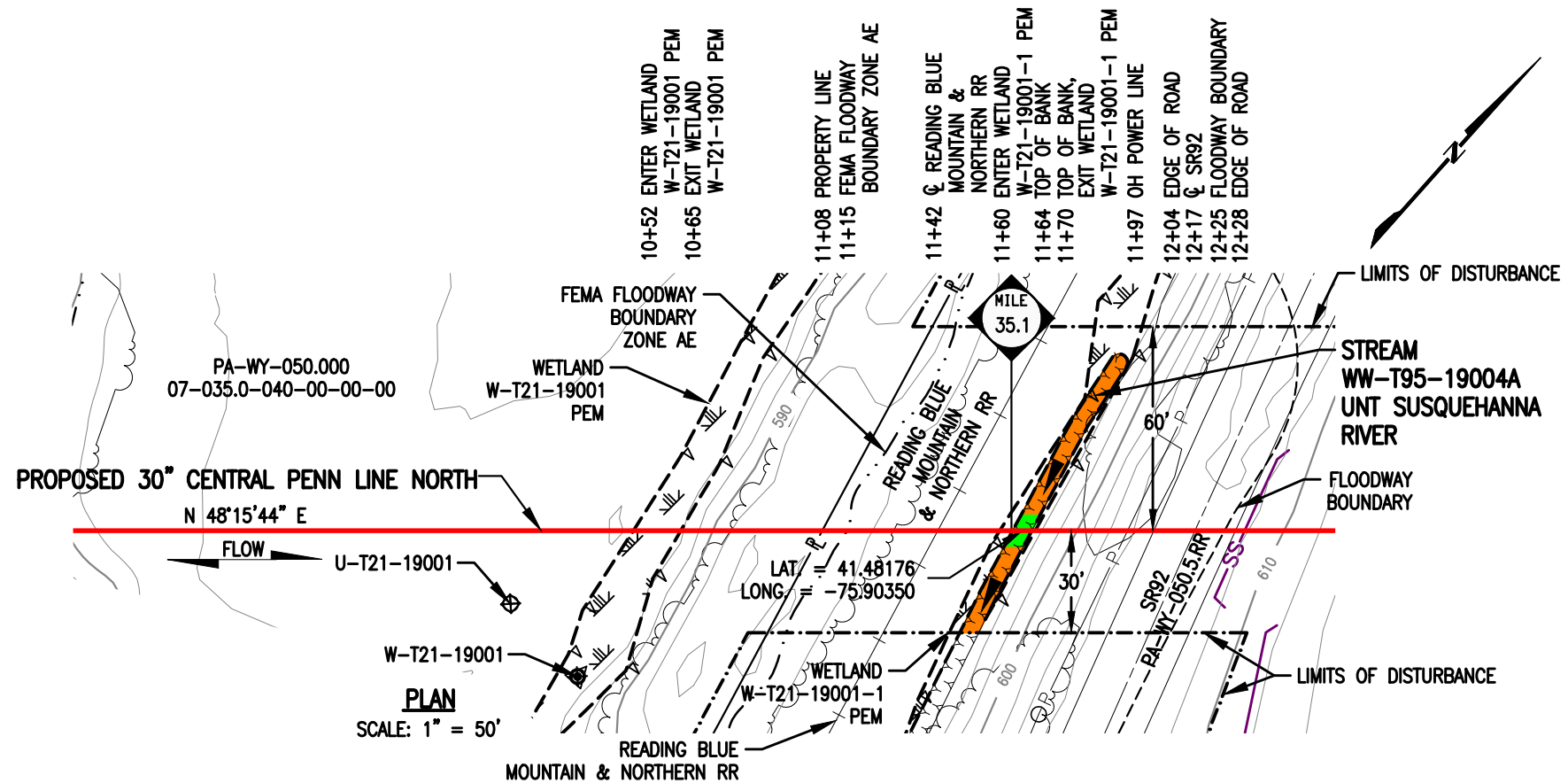
LEGEND		WOOD GROUP MUSTANG, INC.	
	PROPOSED 30" CENTRAL PENN LINE NORTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLN R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	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				
24-1601-70-09-A/34.98-02		WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
CONTINGENCY PLAN IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
STREAM CROSSINGS WW-T21-19001 @ M.P. 34.97 &
WW-T93-19001 @ M.P. 35.05
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: THL	DATE: 04/22/17	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: AT	DATE: 04/22/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 04/22/17	DRAWING NUMBER: 24-1601-70-09A-A/34.98-01	SHEET 6
WO: 1161481		8:15am 4/26/2017 t:3le	OF 6

K:\P11375\Mapping\Waterbodies\PADEP_IP_04-24-2017\Cont. Drawings\24-1601-70-09A-A_34.98-01.dwg



STREAM DISTURBANCE:

STREAM WW-T95-19004A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0052
PERMANENT STREAM DISTURBANCE	0.0013
TOTAL STREAM DISTURBANCE	0.0065
TEMPORARY FLOODWAY DISTURBANCE	0.0957
PERMANENT FLOODWAY DISTURBANCE	0.0232
TOTAL FLOODWAY DISTURBANCE	0.1189

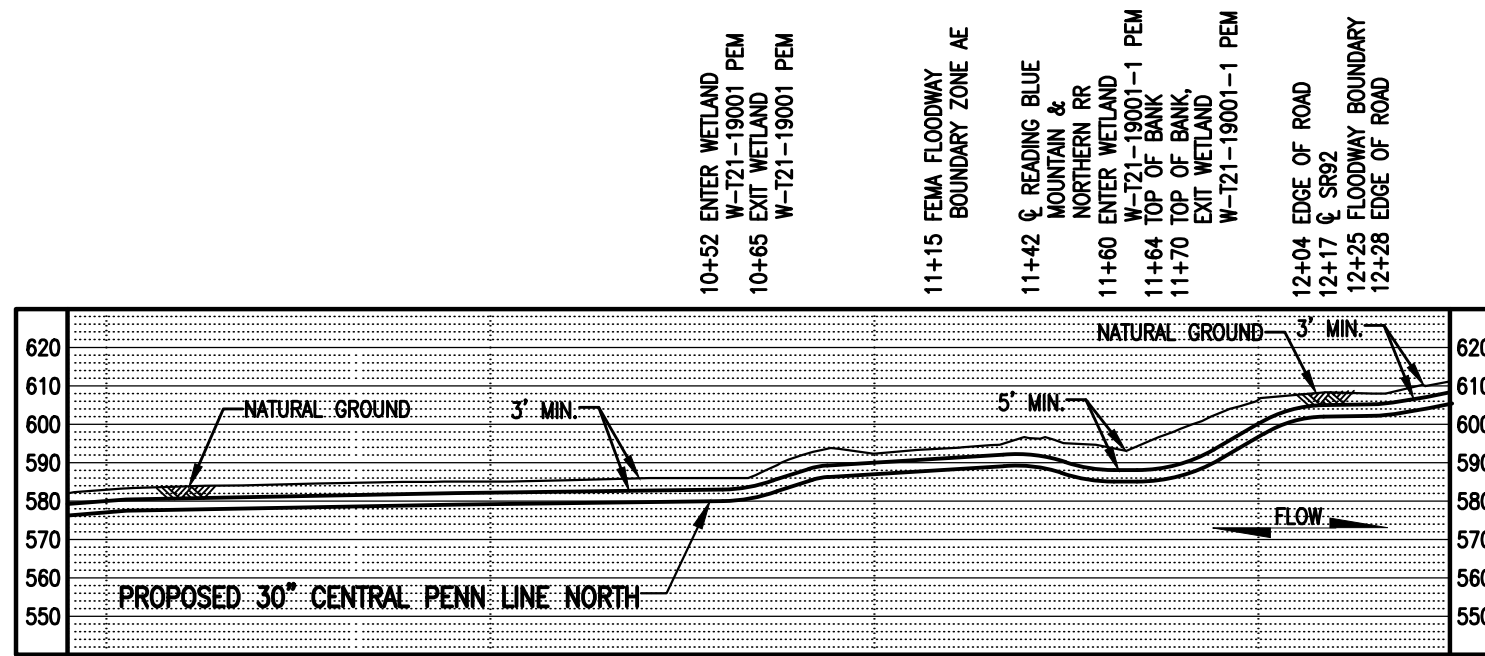
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.65
STREAM TOTAL IMPACT LENGTH	56.59

GENERAL NOTES:

1. STREAM CROSSING METHOD SHALL BE CONVENTIONAL BORE (WBX.1).
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 10+00 SHOWN IS EQUAL TO STATION 1851+65 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 36' RT. OF M.P. 35.11, ELEV. = 608.83' (NAVD88).



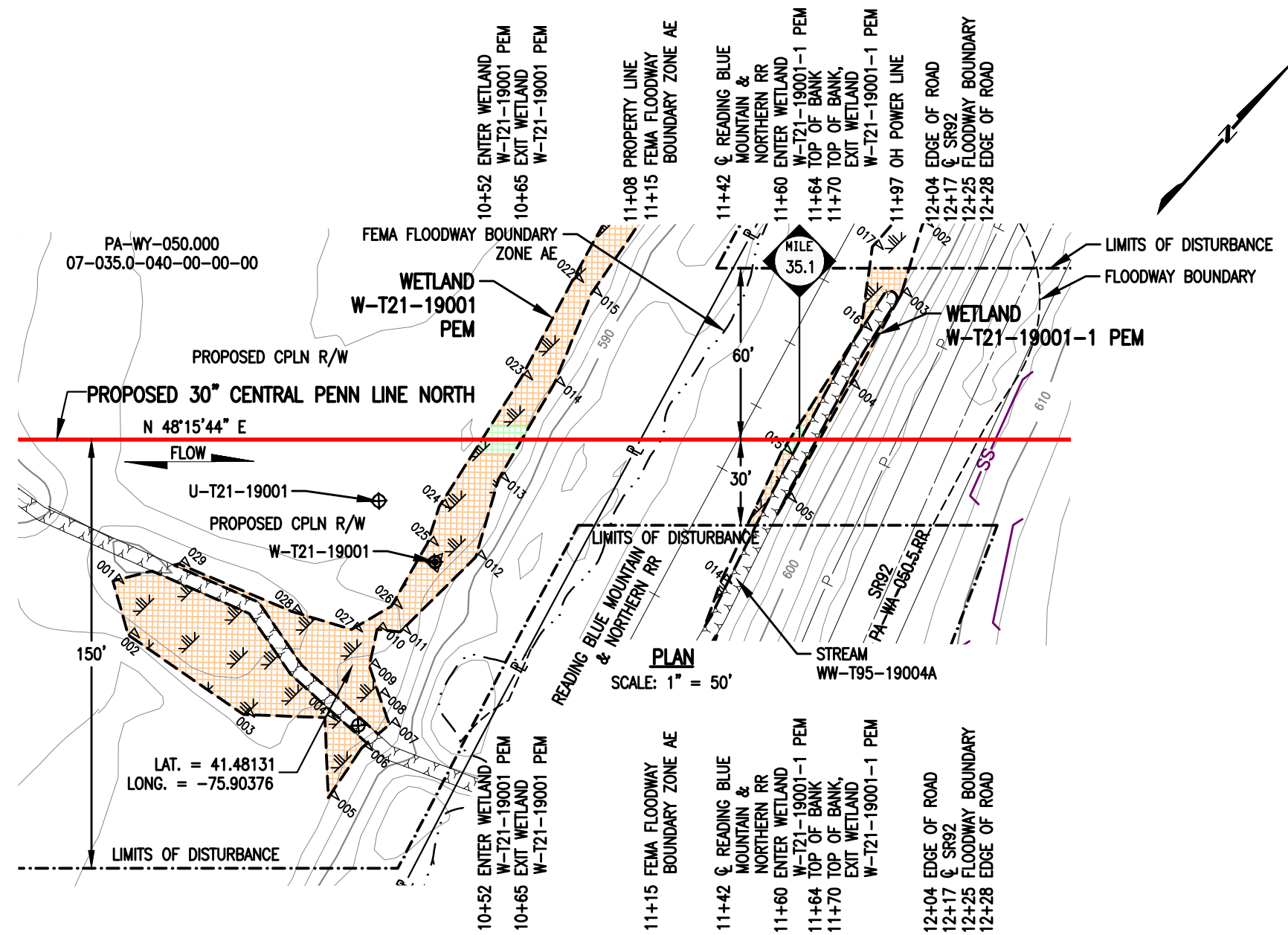
LEGEND

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

DRAWING NO. 24-1601-70-09-A/35.08-02		REFERENCE TITLE WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS		<p>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC CONTINGENCY PLAN IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T95-19004A © M.P. 35.10 FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA</p>						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL	DATE: 03/30/17	ISSUED FOR BID:	SCALE: 1" = 50'
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3	1161481	CLR	MJH	CHECKED BY: CLR	DATE: 03/30/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH		DATE: 03/30/17		DRAWING NUMBER: 24-1601-70-09A-A/35.08-01		SHEET 1		<small>3x20pm 4/24/2017 mlabell</small> <small>K:\PL11375\Mapping\Waterbodies\PADEP_IP_04-24-2017\Cont. Drawings\24-1601-70-09A-A_35.08-01.dwg</small>		

WETLAND DISTURBANCE:

WETLAND W-T21-19001 / W-T21-19001-1	ACRE
TEMPORARY DISTURBANCE	0.1421
PERMANENT DISTURBANCE	0.0043
TOTAL DISTURBANCE	0.1464



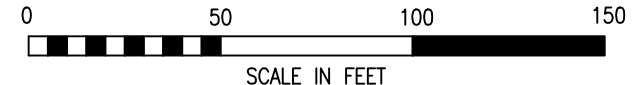
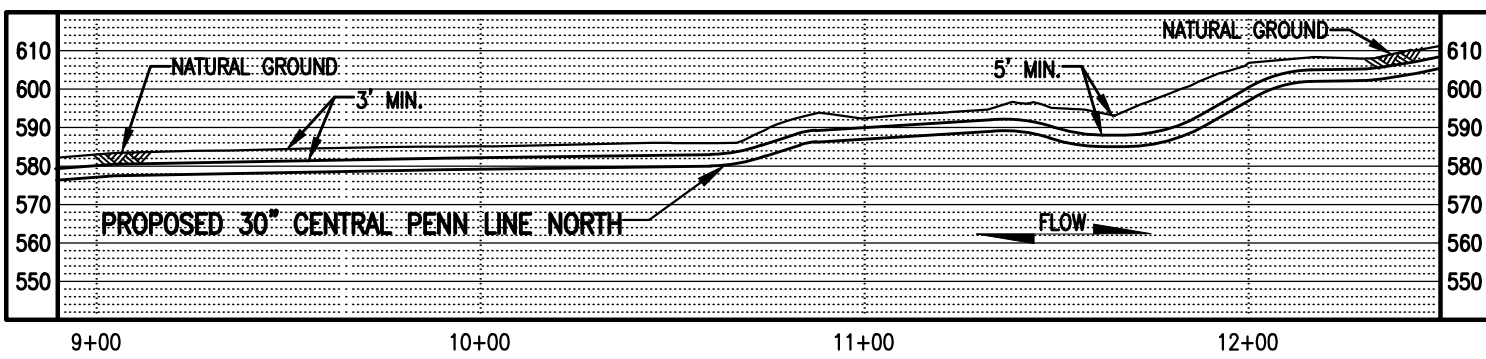
NOTES:

1. UTILIZE A WETLAND EQUIPMENT CROSSING (WEC) AND WCC.1 FOR WETLAND W-T21-19001.
2. WETLAND CROSSING METHOD FOR W-T21-19001-1 SHALL BE CONVENTIONAL BORE (WBX.1)
3. STATION 10+00 SHOWN IS EQUAL TO STATION 1851+65 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 36' RT. OF M.P. 35.11, ELEV. = 608.83' (NAVD88).

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



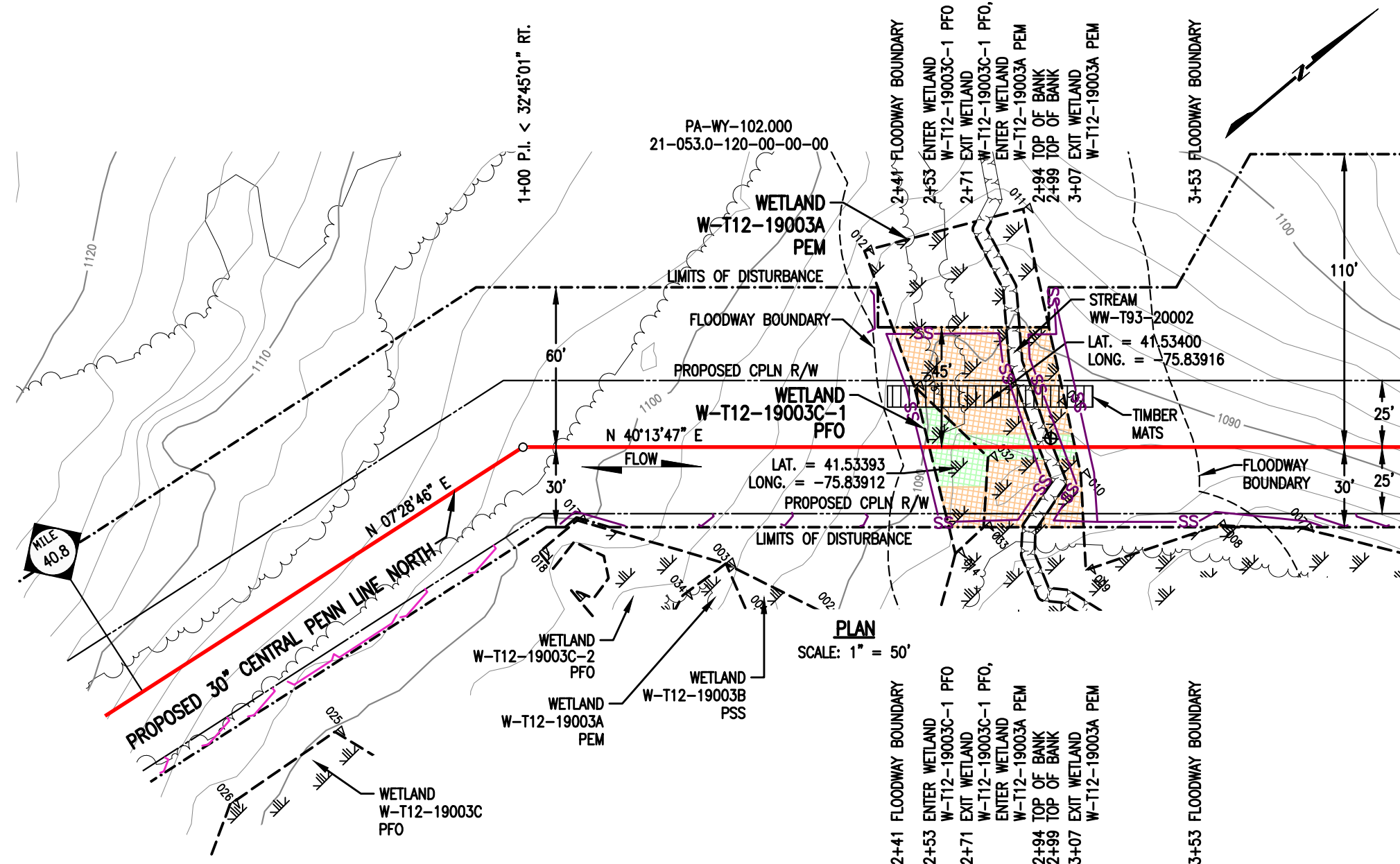
LEGEND		WOOD GROUP MUSTANG, INC.	
— PROPOSED 30° CENTRAL PENN LINE NORTH	▽ WETLAND FLAGS	SS 12" SEDIMENT BARRIER	PERMANENT WETLAND IMPACT TEMPORARY WETLAND IMPACT
— EXISTING PIPELINES	⊗ PHOTO DATA POINT	SS 18" SEDIMENT BARRIER	
— EXISTING TGPL R/W	⊗ WETLAND DATA POINT	SS 24" SEDIMENT BARRIER	
- - - LIMITS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

DRAWING NO. 24-1601-70-20-A/35.08-02	REFERENCE TITLE WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS					
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
CONTINGENCY PLAN IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30° CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T21-19001 / W-T21-19001-1
© M.P. 35.08
FALLS TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

Williams

DRAWN BY: THL	DATE: 03/30/17	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: AT	DATE: 03/30/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 03/30/17	DRAWING NUMBER: 24-1601-70-20A-A/35.08-01	SHEET 1
W.O. NO.: 1161481	DATE: 4/24/2017	FILE: t3le	OF 1



WETLAND DISTURBANCE:

WETLAND W-T12-19003C-1	ACRE
TEMPORARY DISTURBANCE	0.0058
PERMANENT DISTURBANCE	0.0109
TOTAL DISTURBANCE	0.0167

WETLAND W-T12-19003A	ACRE
TEMPORARY DISTURBANCE	0.0614
PERMANENT DISTURBANCE	0.0072
TOTAL DISTURBANCE	0.0686

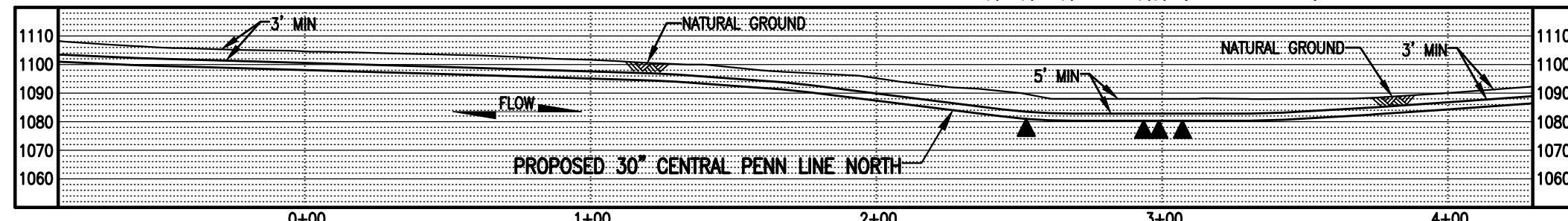
PLAN
SCALE: 1" = 50'

NOTES:

- UTILIZE A WETLAND EQUIPMENT CROSSING (WEC) AND WCC.1.
- STATION 2+00 SHOWN IS EQUAL TO STATION 2156+93 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

- T.B.M. SURVEY CONTROL POINT - 60' RT. OF M.P. 40.94, ELEV. = 1099.28' (NAVD88).



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



LEGEND

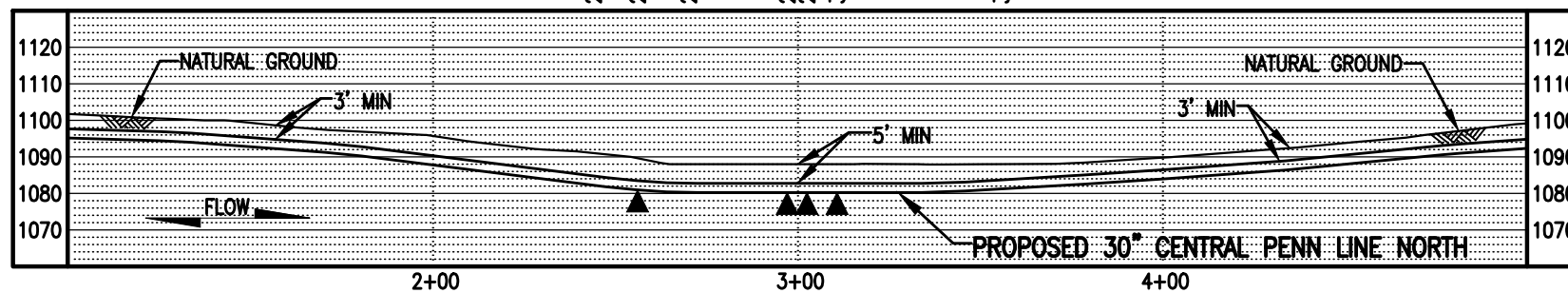
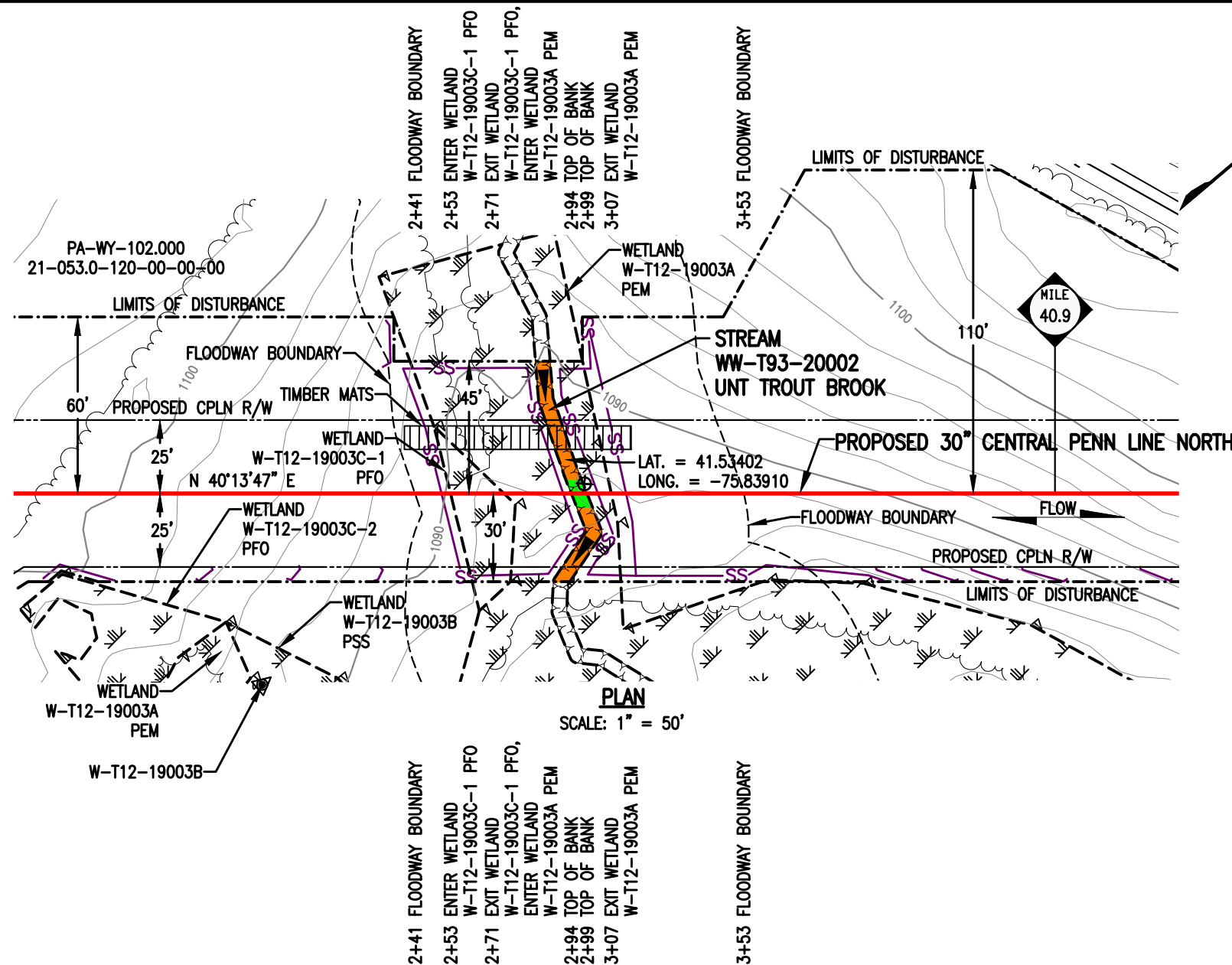
PROPOSED 30" CENTRAL PENN LINE NORTH	WETLAND FLAGS	WOOD GROUP MUSTANG, INC.
EXISTING PIPELINES	PHOTO DATA POINT	12" SEDIMENT BARRIER
EXISTING TGPL R/W	WETLAND DATA POINT	18" SEDIMENT BARRIER
LIMITS OF DISTURBANCE	UPLAND DATA POINT	24" SEDIMENT BARRIER
PROPOSED CPLN R/W	WELL POINT	32" SEDIMENT BARRIER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

DRAWING NO.		REFERENCE TITLE				
24-1601-70-20-A/40.84-02		WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	04/12/17	THL	ISSUED FOR PADEP SUBMITTAL #3	1161481	CLR	MJH

TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC
CONTINGENCY PLAN IMPACT MAPS
ATLANTIC SUNRISE PROJECT
PROPOSED 30" CENTRAL PENN LINE NORTH
WETLAND CROSSINGS W-T12-19003C-1
& W-T12-19003A @ M.P. 40.87
OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA

DRAWN BY: THL	DATE: 03/30/17	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: AT	DATE: 03/30/17	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 03/30/17	DRAWING NUMBER: 24-1601-70-20A-A/40.84-01	SHEET 1
W.O. NUMBER: 1161481	DATE: 4/20/2017	FILED BY: FJhuert	OF 1

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

STREAM DISTURBANCE:

STREAM WW-T93-20002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0081
PERMANENT STREAM DISTURBANCE	0.0012
TOTAL STREAM DISTURBANCE	0.0093
TEMPORARY FLOODWAY DISTURBANCE	0.1040
PERMANENT FLOODWAY DISTURBANCE	0.0131
TOTAL FLOODWAY DISTURBANCE	0.1171

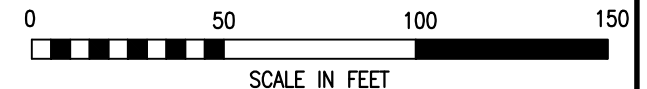
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.36
STREAM LENGTH	81.49

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. TRANSCO WILL REPLANT THE RIPARIAN FOREST BUFFER OF STREAM WW-T93-2002 WITHIN THE LIMITS OF THE MAPPED FLOODWAY BOUNDARY.
4. STATION 2+00 SHOWN IS EQUAL TO STATION 2156+93 ON THE EROSION AND SEDIMENT CONTROL PLAN.

SURVEY NOTES:

1. T.B.M. SURVEY CONTROL POINT - 60' RT. OF M.P. 40.94, ELEV. = 1099.28' (NAVD88).



LEGEND

	PROPOSED 30" CENTRAL PENN LINE NORTH		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 CPLN 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 STREAM IMPACT		32" SEDIMENT BARRIER
	STREAM FLOW		TOP OF BANK		PERMANENT STREAM IMPACT
	EXISTING POWER LINE		PERMANENT STREAM IMPACT		TEMPORARY STREAM IMPACT
	EXISTING FENCE				

DRAWING NO. 24-1601-70-09-A/40.87-02		REFERENCE TITLE WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS		TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC CONTINGENCY PLAN IMPACT MAPS ATLANTIC SUNRISE PROJECT PROPOSED 30" CENTRAL PENN LINE NORTH STREAM CROSSING WW-T93-20002 @ M.P. 40.87 OVERFIELD TOWNSHIP, WYOMING COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.
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DRAWN BY: THL		DATE: 03/30/17		ISSUED FOR BID:	
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APPROVED BY: MJH		DATE: 03/30/17		DRAWING NUMBER: 24-1601-70-09A-A/40.87-01 SHEET 1	
IW: 1161481		4/28/2017 t2le		OF 1	