

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

**ATTACHMENT O -1  
FLOODPLAIN ANALYSIS AND CONSISTENCY**

*Atlantic Sunrise Project – PA DEP Chapter 105 Joint Permit Application  
Transcontinental Gas Pipeline Company, LLC  
Schuylkill County*

Please refer to Attachment C of this application for copies of the letters and consistency requests which have been sent to each County and Municipality. Floodplain management analysis letters that have been provided to the County / Municipality, as well as any concurrence letters received at the time of the application submittal, have been included in this section. Additional concurrence letters will be provided upon receipt; however, because this Project is subject to the jurisdiction of the Federal Energy Regulatory Commission (FERC) under the Natural Gas Act, FERC has exclusive jurisdiction over siting. Therefore, local zoning is preempted.



October 28, 2016

Eldred Township  
Floodplain Administrator  
154 Ridge Road  
Pitman, PA 17964

Re: Atlantic Sunrise Project  
Central Penn Line South  
Eldred Township, Schuylkill County  
Floodplain Management Analysis

Dear Sir or Madam:

Transcontinental Gas Pipeline Company, LLC (Transco) proposes to construct and operate the Atlantic Sunrise Project (Project) to provide 1.7 million dekatherms per day of incremental firm transportation of natural gas from the Marcellus Shale production areas in northern Pennsylvania (PA) to its existing market areas, extending to as far south as the Station 85 Pooling Point in Choctaw County, Alabama. The Project includes modifications to the existing Transco Mainline System to reverse the direction of flow, enabling new north-to-south capabilities (bi-directional flow) to transport this new source of natural gas to existing markets. The Project consists of the following primary components within PA:

- Installing greenfield pipeline facilities of approximately 58.6 miles of new 30-inch-diameter pipe from Susquehanna County, PA to Columbia County, PA.
- Installing greenfield pipeline facilities of approximately 127.3 miles of 42-inch-diameter pipe from Columbia County, PA to Lancaster County, PA.;
- Installing two pipeline loops (pipeline laid parallel to existing facilities):
  - 8.56 miles of 42-inch pipeline loop located in Lycoming County, PA known as the Unity Loop;
  - 2.50 miles of 36-inch pipeline in Clinton County, PA, known as the Chapman Loop;
- Constructing two new compressor stations, one in Wyoming County and one in Columbia County, PA;
- Additional ancillary facilities, such as mainline valves, cathodic protection, communication facilities, and internal inspection device (e.g., pig) launchers and receivers;
- Two new meter stations and three new regulator stations with interconnecting piping;
- Additional compression and related modifications to one existing compressor station; and,
- Modification to an existing meter station for use of shared facilities with a new meter station.

Transco's consultants, BL Companies and TRC Solutions (TRC), have completed an analysis of potential impacts on FEMA delineated floodways from the Project in accordance with 25 Pa. Code § 105.13. The analysis for Eldred Township is provided below for your review and comment.

Eldred Township  
October 28, 2016  
BL Project No. 14C4909  
Page 1 of 3

**ATLANTIC SUNRISE PROJECT  
FEMA FLOODPLAIN CROSSINGS  
ELRED TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

Description of Impact	Structure Type and Dimensions	Resource ID	Resource Name	Chapter 93 Classification, Wetland Classification (EV or Other), or Floodway Type	Floodway Fill (cu. yds.)	Impact area (acres)		Latitude	Longitude
						Temporary	Permanent		
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T11-9001	Floodway to Mahantango Creek	FEMA Detailed	N/A	0.8067	0.0843 <sup>1</sup>	40.69885	-76.493853

<sup>1</sup> Permanent impacts associated with utility pipeline crossings are based on the permanent pipe footprint within the floodplain (pipe trench width x pipe crossing length). No permanent alternation to the floodway contours and elevation is associated with these permanent impacts.

The floodway crossing listed above is depicted on the enclosed plans from the Project’s PADEP Chapter 105 Permit Application.

Please note that construction activities are not expected to create permanent loss of flood storage capacity or hydraulic capacity, as all pre-construction surface elevations will be re-established during restoration. The temporary and permanent impacts noted above are associated with vegetation management and underground pipe installation only, and do not represent a permanent modification of ground elevation or loss of flood storage capacity or hydraulic capacity. No structures are proposed within the FEMA 100-year floodplain, no fill will be placed in the floodways, and no increase in 100-year flood elevation is anticipated as a result of the proposed Project.

On behalf of Transco, BL and TRC respectfully request that Eldred Township review this analysis and, if applicable, provide comments to:

Steve Crescenzo  
TRC Environmental Corporation  
2200 Liberty Avenue, Suite 100  
Pittsburgh, PA 15222

**Please do not send comments directly to the PADEP**, as we must include them with our permit application. Should you have any questions or concerns regarding this notification, please contact Al Busher at (717)-651-9850 or via email at [abusher@blcompanies.com](mailto:abusher@blcompanies.com).

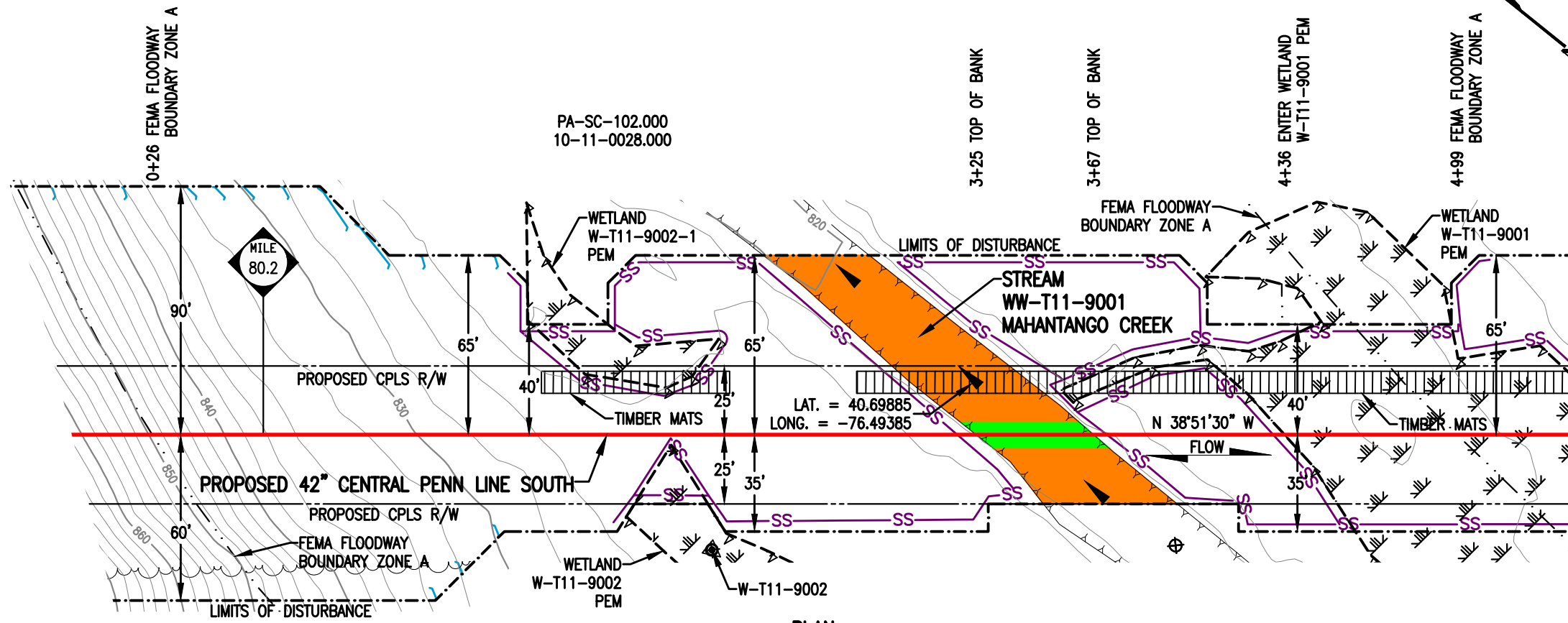
Sincerely,



Alaric J. Busher, PE  
Senior Engineer

Enclosures: Water Obstruction and Encroachment Permit Impact Maps  
Eldred Township  
October 28, 2016  
BL Project No. 14C4909  
Page 2 of 3





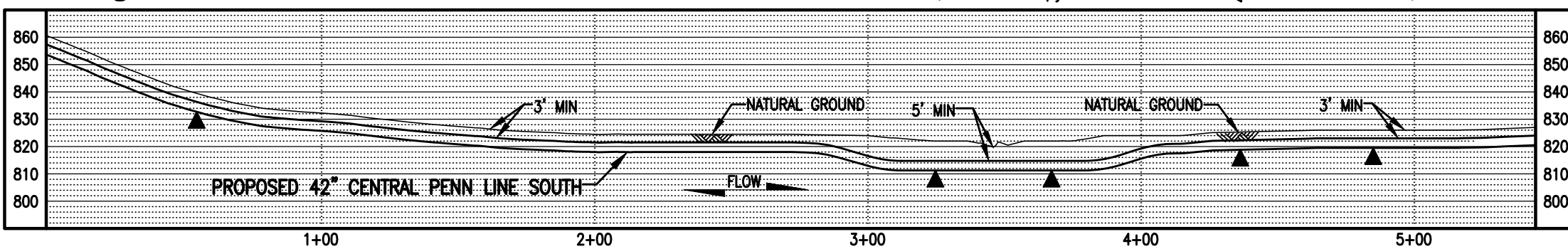
**PLAN**  
SCALE: 1" = 50'

**STREAM DISTURBANCE:**

STREAM WW-T11-9001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0765
PERMANENT STREAM DISTURBANCE	0.0097
TOTAL STREAM DISTURBANCE	0.0862
TEMPORARY FLOODWAY DISTURBANCE	0.8067
PERMANENT FLOODWAY DISTURBANCE	0.0843
TOTAL FLOODWAY DISTURBANCE	0.8910

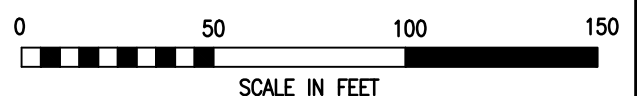
  

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	42.47
STREAM LENGTH	143.91



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

- 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 3+00 SHOWN IS EQUAL TO STATION 4236+89 ON THE EROSION AND SEDIMENT CONTROL PLAN.
- SURVEY NOTES:**
1. T.B.M. SURVEY CONTROL POINT - 53' RT. OF M.P. 80.29, ELEV. = 826.67' (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-T11-9001**  
**© M.P. 80.25**  
**ELDRED TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

**Williams**

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: JB	DATE: 03/18/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/04/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 05/15/15	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	11/01/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 05/19/15	DRAWING NUMBER: 24-1600-70-09-A/80.25-01	SHEET 1
							W.O. NO.: 1161503		9/30/2016	t3le



October 28, 2016

Frailey Township  
Floodplain Administrator  
23 Maryland Street  
Donaldson, PA 17981

Re: Atlantic Sunrise Project  
Central Penn Line South  
Frailey Township, Schuylkill County  
Floodplain Management Analysis

Dear Sir or Madam:

Transcontinental Gas Pipeline Company, LLC (Transco) proposes to construct and operate the Atlantic Sunrise Project (Project) to provide 1.7 million dekatherms per day of incremental firm transportation of natural gas from the Marcellus Shale production areas in northern Pennsylvania (PA) to its existing market areas, extending to as far south as the Station 85 Pooling Point in Choctaw County, Alabama. The Project includes modifications to the existing Transco Mainline System to reverse the direction of flow, enabling new north-to-south capabilities (bi-directional flow) to transport this new source of natural gas to existing markets. The Project consists of the following primary components within PA:

- Installing greenfield pipeline facilities of approximately 58.6 miles of new 30-inch-diameter pipe from Susquehanna County, PA to Columbia County, PA.
- Installing greenfield pipeline facilities of approximately 127.3 miles of 42-inch-diameter pipe from Columbia County, PA to Lancaster County, PA.;
- Installing two pipeline loops (pipeline laid parallel to existing facilities):
  - 8.56 miles of 42-inch pipeline loop located in Lycoming County, PA known as the Unity Loop;
  - 2.50 miles of 36-inch pipeline in Clinton County, PA, known as the Chapman Loop;
- Constructing two new compressor stations, one in Wyoming County and one in Columbia County, PA;
- Additional ancillary facilities, such as mainline valves, cathodic protection, communication facilities, and internal inspection device (e.g., pig) launchers and receivers;
- Two new meter stations and three new regulator stations with interconnecting piping;
- Additional compression and related modifications to one existing compressor station; and,
- Modification to an existing meter station for use of shared facilities with a new meter station.

Transco's consultants, BL Companies and TRC Solutions (TRC), have completed an analysis of potential impacts on FEMA delineated floodways from the Project in accordance with 25 Pa. Code § 105.13. The analysis for Frailey Township is provided below for your review and comment.

Frailey Township  
October 28, 2016  
BL Project No. 14C4909  
Page 1 of 3

**ATLANTIC SUNRISE PROJECT  
FEMA FLOODPLAIN CROSSINGS  
FRAILEY TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

Description of Impact	Structure Type and Dimensions	Resource ID	Resource Name	Chapter 93 Classification, Wetland Classification (EV or Other), or Floodway Type	Floodway Fill (cu. yds.)	Impact area (acres)		Latitude	Longitude
						Temporary	Permanent		
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T24-8001	Floodway to UNT to Lower Rausch Creek	FEMA Detailed <sup>1</sup>	N/A	1.7067	0.1790 <sup>2</sup>	40.62080	-76.44122
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T35-8001	Floodway to Good Spring Creek	FEMA Detailed <sup>1</sup>	N/A	1.1190	0.1235 <sup>2</sup>	40.62673	-76.44122

Notes:  
<sup>1</sup> Multiple streams are included in these calculations as the floodways overlap.  
<sup>2</sup> Permanent impacts associated with utility pipeline crossings are based on the permanent pipe footprint within the floodplain (pipe trench width x pipe crossing length). No permanent alternation to the floodway contours and elevation is associated with these permanent impacts.

The floodway crossing listed above is depicted on the enclosed plans from the Project’s PADEP Chapter 105 Permit Application.

Please note that construction activities are not expected to create permanent loss of flood storage capacity or hydraulic capacity, as all pre-construction surface elevations will be re-established during restoration. The temporary and permanent impacts noted above are associated with vegetation management and underground pipe installation only, and do not represent a permanent modification of ground elevation or loss of flood storage capacity or hydraulic capacity. No structures are proposed within the FEMA 100-year floodplain, no fill will be placed in the floodways, and no increase in 100-year flood elevation is anticipated as a result of the proposed Project.

On behalf of Transco, BL and TRC respectfully request that Frailey Township review this analysis and, if applicable, provide comments to:

Steve Crescenzo  
 TRC Environmental Corporation  
 2200 Liberty Avenue, Suite 100  
 Pittsburgh, PA 15222

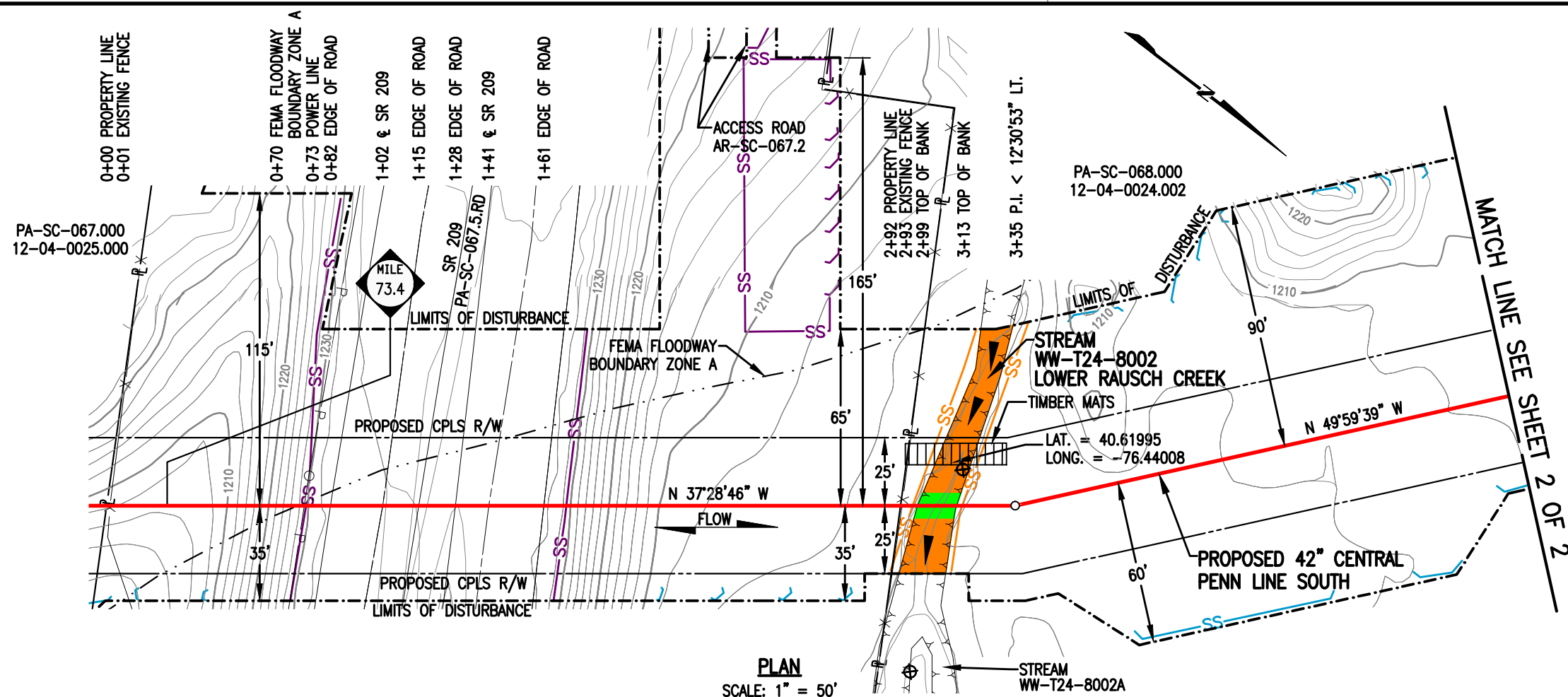
**Please do not send comments directly to the PADEP,** as we must include them with our permit application. Should you have any questions or concerns regarding this notification, please contact Al Busher at (717)-651-9850 or via email at abusher@blcompanies.com.

Sincerely,



Alaric J. Busher, PE  
 Senior Engineer  
 Frailey Township  
 October 28, 2016  
 BL Project No. 14C4909  
 Page 2 of 3

Enclosures: Water Obstruction and Encroachment Permit Impact Maps



**PLAN**  
SCALE: 1" = 50'

**STREAM DISTURBANCE:**

STREAM WW-T24-8002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0235
PERMANENT STREAM DISTURBANCE	0.0033
TOTAL STREAM DISTURBANCE	0.0268
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

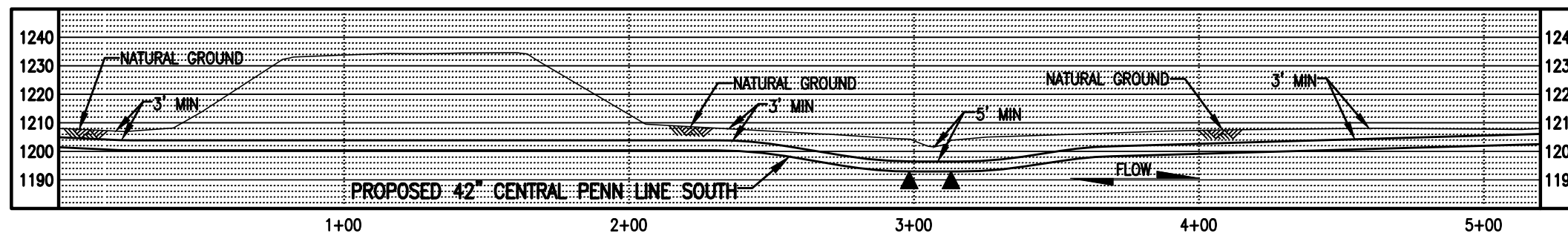
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	14.41
STREAM LENGTH	97.24

**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. FLOODWAY IMPACTS FOR STREAM WW-T24-8002 ARE INCORPORATED IN FLOODWAY IMPACTS OF STREAM WW-T24-8001 DUE TO OVERLAPPING FLOODWAY BOUNDARY.
4. STATION 6+00 SHOWN IS EQUAL TO STATION 3881+30 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

1. T.B.M. SURVEY CONTROL POINT - 90' RT. OF M.P. 73.42, ELEV. = 1234.20' (NAVD88).



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



**LEGEND**

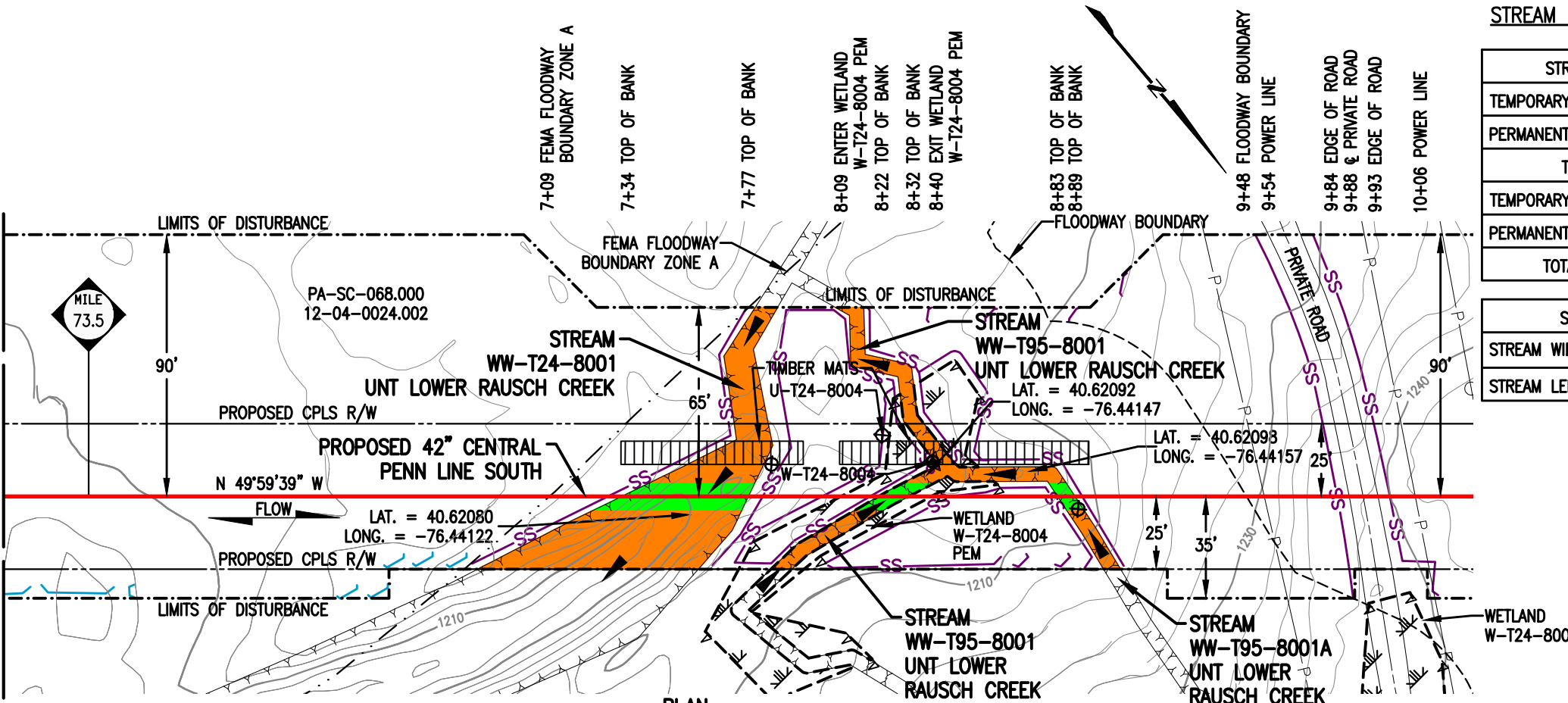
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS
	EXISTING PIPELINES		PHOTO DATA POINT
	EXISTING TGPL R/W		WETLAND DATA POINT
	LIMITS OF DISTURBANCE		UPLAND DATA POINT
	PROPOSED CPLS R/W		WELL POINT
	PROPERTY LINE		TRENCH PLUG
	FOREIGN PIPELINE		WATERBODY
	WETLAND AREA		TREE LINE
	STREAM FLOW		FLOODWAY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

DRAWING NO.		REFERENCE TITLE	
NO.	DATE	BY	REVISION DESCRIPTION
0	08/04/15	TL	ISSUED FOR PADEP 105 PERMIT
1	02/03/16	TL	ISSUED FOR INTERNAL USE
2	11/01/16	AT	ISSUED FOR PADEP SUBMITTAL #2
W.O. NO.	CHK.	APP.	
1161503	CLR	MJH	
1161503	CLR	MJH	
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-T24-8002**  
**M.P. 73.45**  
**FRAILEY TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

DRAWN BY: TL	DATE: 03/25/15	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 05/13/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
APPROVED BY: MJH	DATE: 05/19/15	DRAWING NUMBER: 24-1600-70-09-A/73.45-01	SHEET 1
IWO: 1161503	9/30/2016	t3le	OF 2

MATCH LINE SEE SHEET 1 OF 2



**PLAN**  
SCALE: 1" = 50'

**STREAM DISTURBANCE:**

STREAM	ACRE	STREAM	ACRE
STREAM WW-T24-8001		STREAM WW-T95-8001	
TEMPORARY STREAM DISTURBANCE	0.0484	TEMPORARY STREAM DISTURBANCE	0.0137
PERMANENT STREAM DISTURBANCE	0.0100	PERMANENT STREAM DISTURBANCE	0.0024
<b>TOTAL STREAM DISTURBANCE</b>	<b>0.0584</b>	<b>TOTAL STREAM DISTURBANCE</b>	<b>0.0161</b>
TEMPORARY FLOODWAY DISTURBANCE	1.7067	TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.1790	PERMANENT FLOODWAY DISTURBANCE	0.0000
<b>TOTAL FLOODWAY DISTURBANCE</b>	<b>1.8857</b>	<b>TOTAL FLOODWAY DISTURBANCE</b>	<b>0.0000</b>

STREAM DIMENSION	FT.	STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	43.55	STREAM WIDTH (TOB TO TOB)	10.41
STREAM LENGTH	111.63	STREAM LENGTH	141.30

STREAM	ACRE
STREAM WW-T95-8001A	
TEMPORARY STREAM DISTURBANCE	0.0074
PERMANENT STREAM DISTURBANCE	0.0014
<b>TOTAL STREAM DISTURBANCE</b>	<b>0.0088</b>
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
<b>TOTAL FLOODWAY DISTURBANCE</b>	<b>0.0000</b>

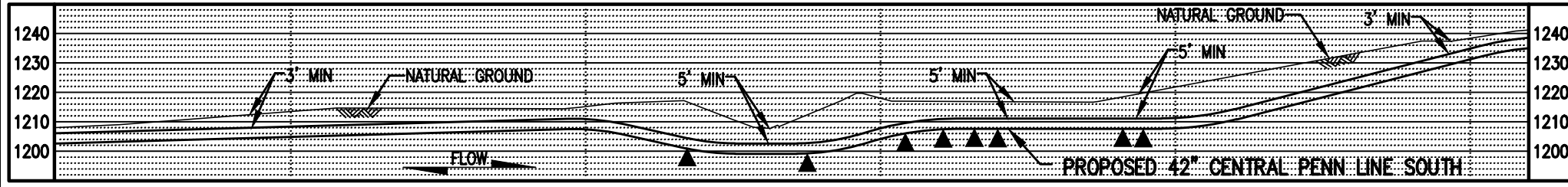
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	5.96
STREAM LENGTH	75.05

**GENERAL NOTES:**

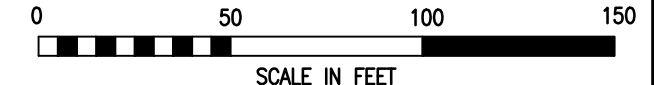
1. STREAM CROSSING METHOD FOR STREAMS WW-T95-8001, WW-T95-8001A, AND WW-T24-8001 SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS LOCATED WITHIN THE 100 YEAR FLOODPLAIN PER FEMA FLOOD MAP DATA.
3. STATION 6+00 SHOWN IS EQUAL TO STATION 3881+30 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

1. T.B.M. SURVEY CONTROL POINT - 90' RT. OF M.P. 73.42, ELEV. = 1234.20' (NAVD88).



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



**LEGEND**

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		<b>WOOD GROUP MUSTANG, INC.</b>
	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		FLOODWAY BOUNDARY		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 CROSSINGS WW-T24-8001 @ M.P. 73.54,**  
**WW-T95-8001 @ M.P. 73.55, & WW-T95-8001A @ M.P. 73.56**  
**FRAILEY TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY:	DATE:	ISSUED FOR BID:	SCALE:
0	11/01/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	TL	07/01/16	ISSUED FOR CONSTRUCTION:	1" = 50'

CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	REVISION:
CLR	07/01/16		0

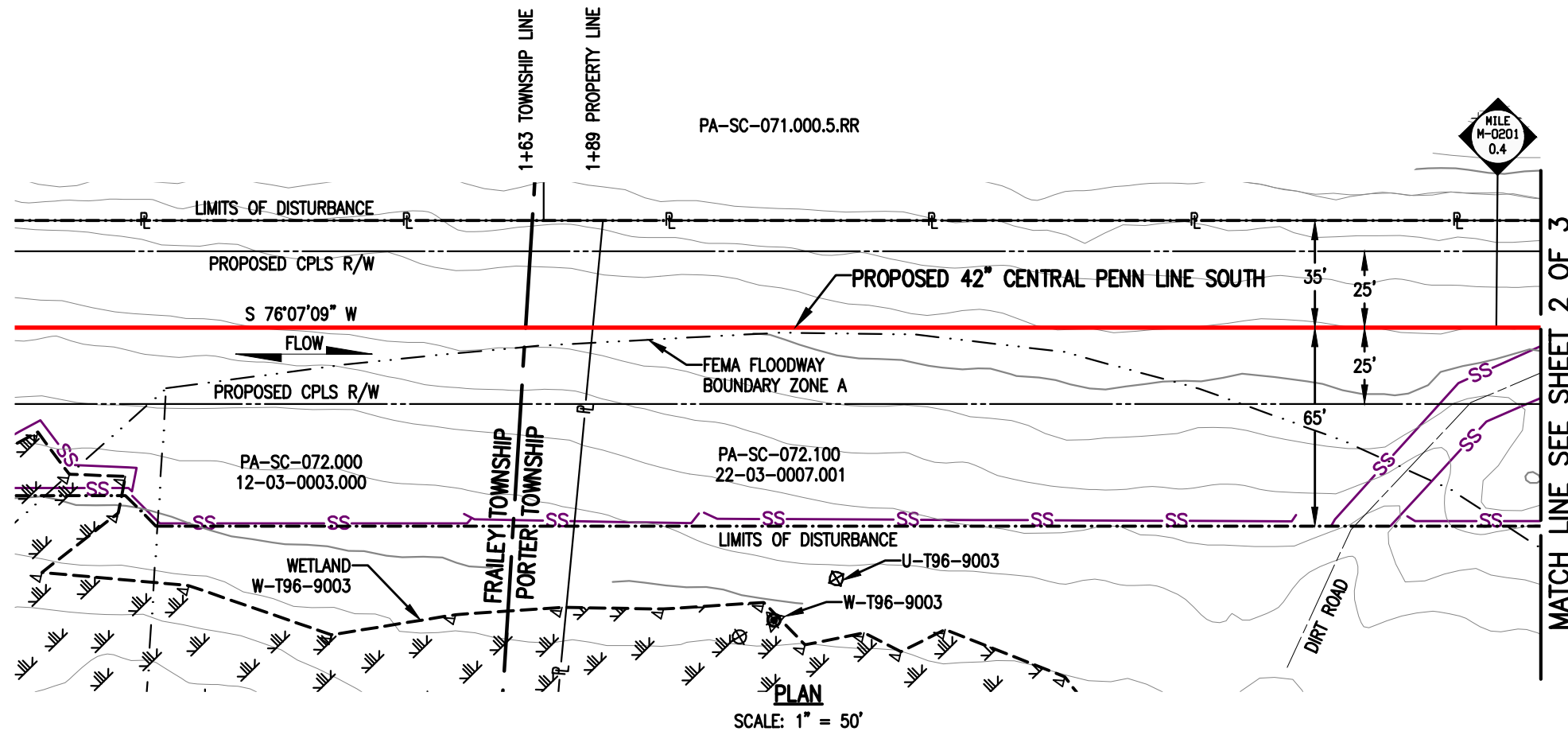
APPROVED BY:	DATE:	DRAWING NUMBER:	SHEET
MJH	07/01/16	24-1600-70-09-A/73.45-01	2

W.O. NUMBER: 1161503  
 I13pm  
 K:\03643-CPLS\Maping\Waterbodies\CPLS\_PAS\Revised 10/5/2016-70-09-A\_73.45-01.dwg

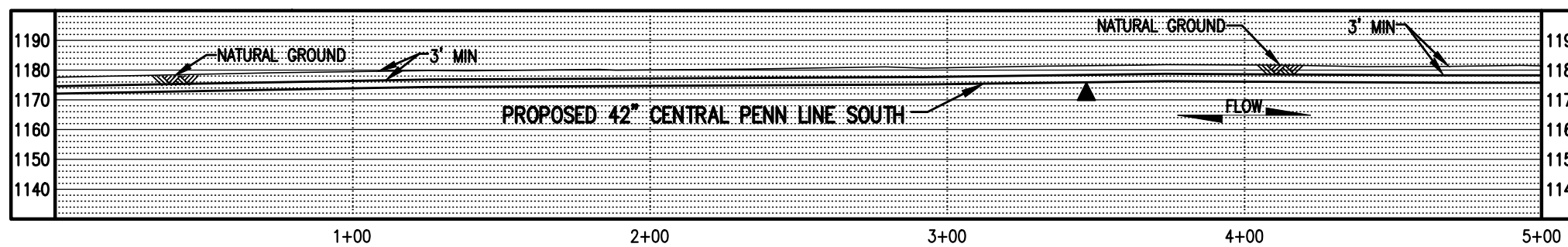
**STREAM DISTURBANCE:**

STREAM WW-T35-8001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0263
PERMANENT STREAM DISTURBANCE	0.0025
TOTAL STREAM DISTURBANCE	0.0288
TEMPORARY FLOODWAY DISTURBANCE	1.1190
PERMANENT FLOODWAY DISTURBANCE	0.0789
TOTAL FLOODWAY DISTURBANCE	1.1979

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	10.59
STREAM LENGTH	97.39



MATCH LINE SEE SHEET 2 OF 3



**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-0201 STATION 17+32 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

1. T.B.M. IRON ROD - 935' LT. OF M.P. 74.82, ELEV. = 1179.96' (NAVD88).

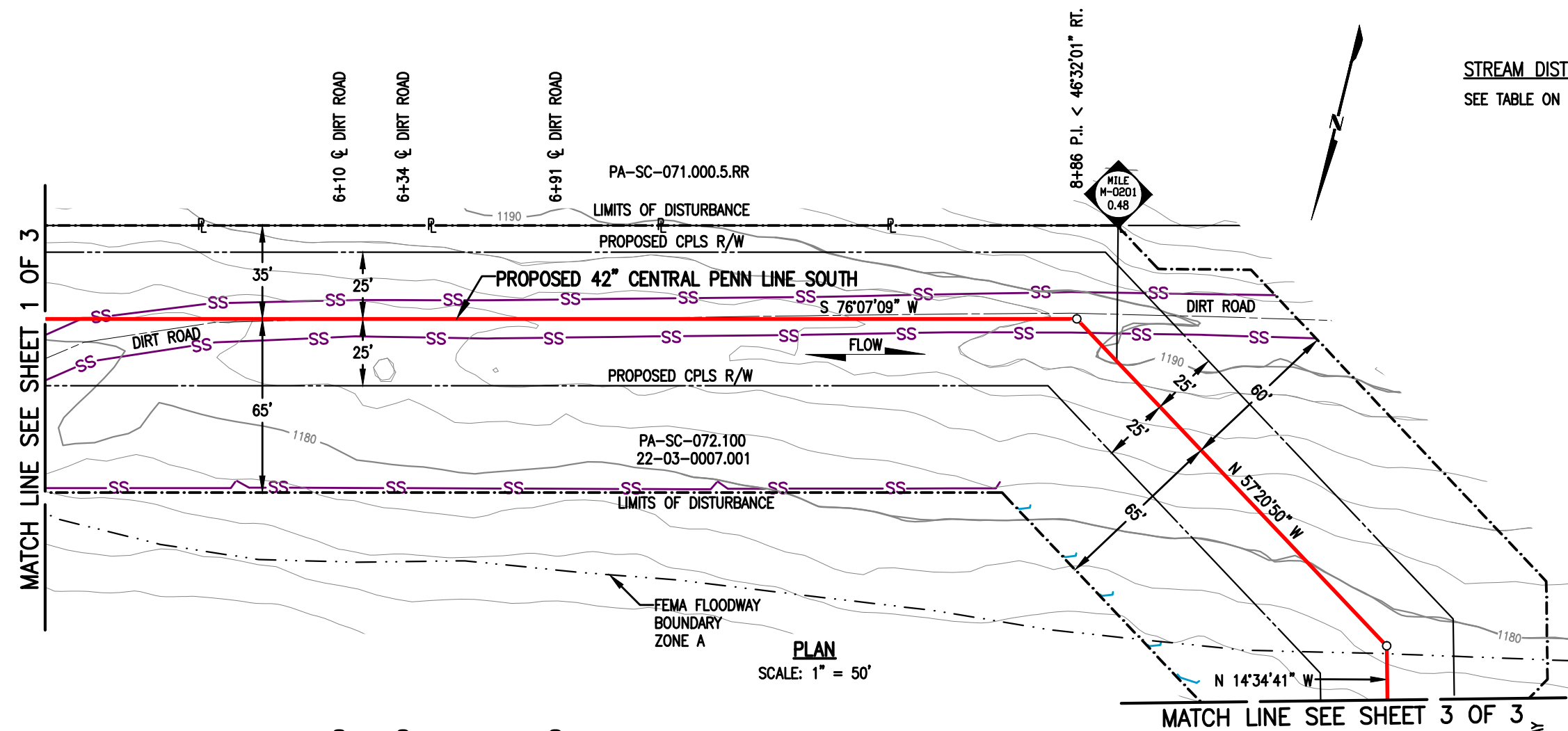


**LEGEND**

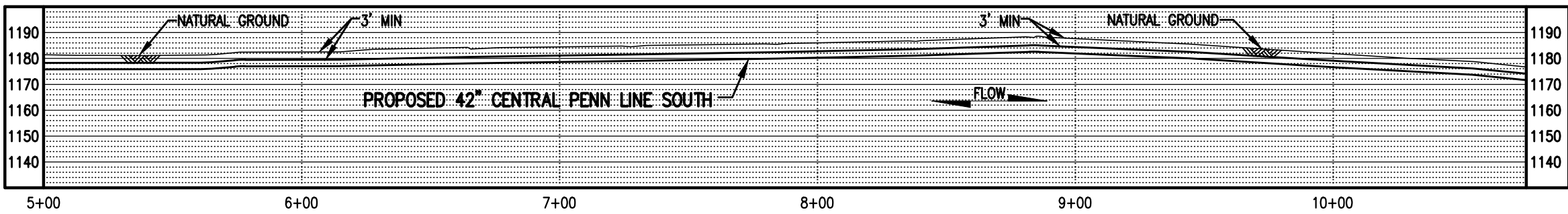
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		<b>WOOD GROUP MUSTANG, INC.</b>
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLS R/W		WELL POINT		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		<b>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC</b> <b>WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS</b> <b>ATLANTIC SUNRISE PROJECT</b> <b>PROPOSED 42" CENTRAL PENN LINE SOUTH</b> <b>STREAM CROSSING WW-T35-8001</b> <b>© M.P. 74.74</b> <b>FRAILEY/PORTER TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA</b>						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: CM	DATE: 06/29/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	11/01/16	DLK	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/29/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH		DATE: 06/29/16		DRAWING NUMBER: 24-1600-70-09-A/74.74-01		SHEET 1		OF 3		
W.O. NUMBER: 1161503		DATE: 10/3/2016		FILE: 11r-o.jal						

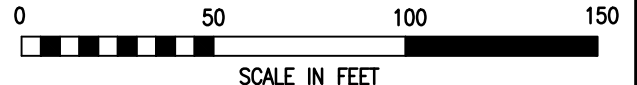
STREAM DISTURBANCE:  
SEE TABLE ON SHEET 1 OF 3



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

**WOOD GROUP MUSTANG, INC.**

DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	11/01/16	DLK	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

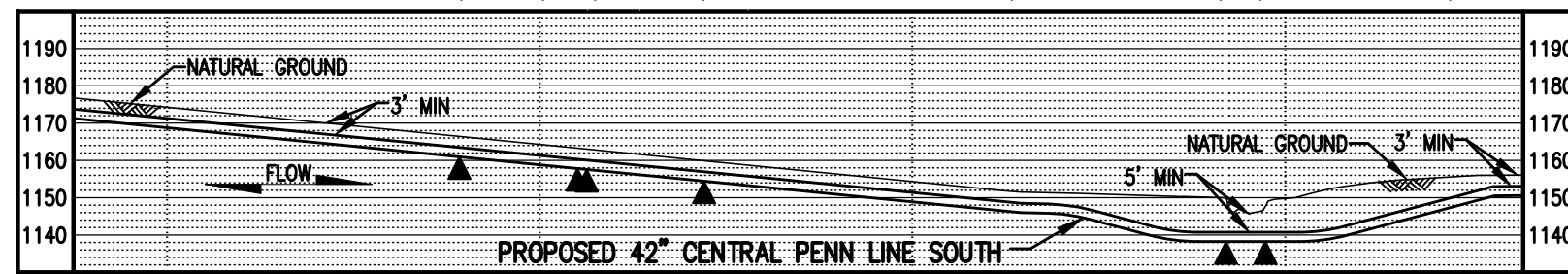
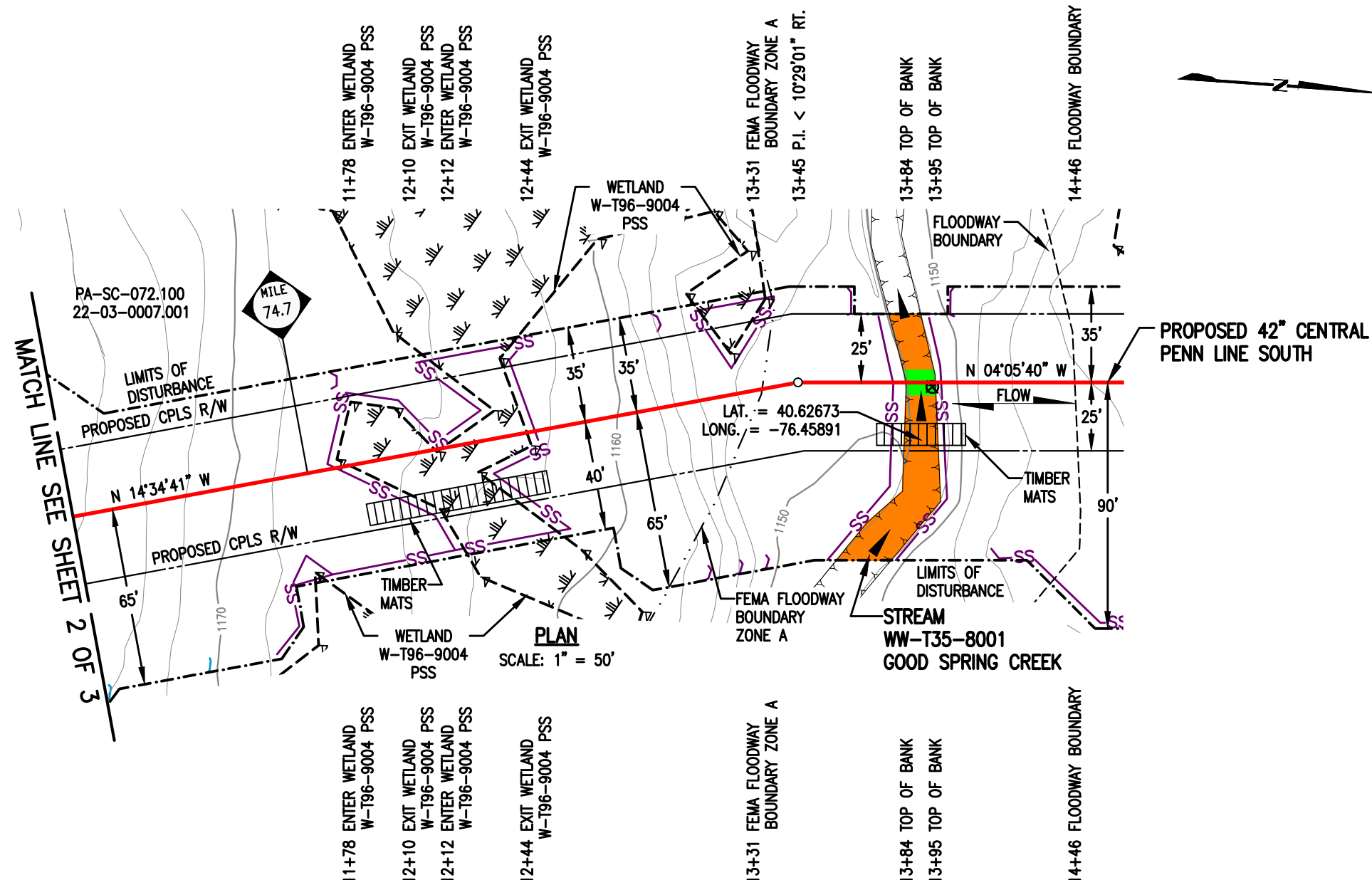
**TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC**  
**WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS**  
**ATLANTIC SUNRISE PROJECT**  
**PROPOSED 42" CENTRAL PENN LINE SOUTH**  
**STREAM CROSSING WW-T35-8001**  
**© M.P. 74.74**  
**PORTER TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

**Williams**

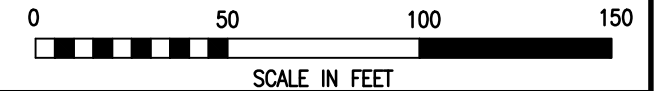
DRAWN BY: CM	DATE: 06/29/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 06/29/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/29/16	DRAWING NUMBER: 24-1600-70-09-A/74.74-01	SHEET 2
WO: 1161503		10/3/2016	11r-o.jal

K:\103643-CPLS\Maping\Waterbodies\CPLS\_PAS\Revised 105\24-1600-70-09-A\_74.74-01.dwg

STREAM DISTURBANCE:  
SEE TABLE ON SHEET 1 OF 3



**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 C/PLS 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	08/04/15	AT	ISSUED FOR PADEP 105 PERMIT
1	02/03/16	TL	ISSUED FOR INTERNAL USE
2	11/01/16	DLK	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-T35-8001  
M.P. 74.74  
PORTER TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA

W.O. NO.	CHK.	APP.	DRAWN BY:	CM	DATE:	02/06/15	ISSUED FOR BID:	SCALE:	1" = 50'
1161503	CLR	MJH	CHECKED BY:	ML	DATE:	04/10/15	ISSUED FOR CONSTRUCTION:	REVISION:	2
1161503	CLR	MJH	APPROVED BY:	MJH	DATE:	05/19/15	DRAWING NUMBER:	24-1600-70-09-A/74.74-01 SHEET 3	
1161503	CLR	MJH	IWO:	1161503	12:46pm 10/3/2016 11:01am K:\03643-CPLS\Mapping\Waterbodies\CPLS_PAS\Revised 105\24-1600-70-09-A_74.74-01.dwg				



October 28, 2016

Hegins Township  
Floodplain Administrator  
421 South Gap Street  
Valley View, PA 17983

Re: Atlantic Sunrise Project  
Central Penn Line South  
Hegins Township, Schuylkill County  
Floodplain Management Analysis

Dear Sir or Madam:

Transcontinental Gas Pipeline Company, LLC (Transco) proposes to construct and operate the Atlantic Sunrise Project (Project) to provide 1.7 million dekatherms per day of incremental firm transportation of natural gas from the Marcellus Shale production areas in northern Pennsylvania (PA) to its existing market areas, extending to as far south as the Station 85 Pooling Point in Choctaw County, Alabama. The Project includes modifications to the existing Transco Mainline System to reverse the direction of flow, enabling new north-to-south capabilities (bi-directional flow) to transport this new source of natural gas to existing markets. The Project consists of the following primary components within PA:

- Installing greenfield pipeline facilities of approximately 58.6 miles of new 30-inch-diameter pipe from Susquehanna County, PA to Columbia County, PA.
- Installing greenfield pipeline facilities of approximately 127.3 miles of 42-inch-diameter pipe from Columbia County, PA to Lancaster County, PA.;
- Installing two pipeline loops (pipeline laid parallel to existing facilities):
  - 8.56 miles of 42-inch pipeline loop located in Lycoming County, PA known as the Unity Loop;
  - 2.50 miles of 36-inch pipeline in Clinton County, PA, known as the Chapman Loop;
- Constructing two new compressor stations, one in Wyoming County and one in Columbia County, PA;
- Additional ancillary facilities, such as mainline valves, cathodic protection, communication facilities, and internal inspection device (e.g., pig) launchers and receivers;
- Two new meter stations and three new regulator stations with interconnecting piping;
- Additional compression and related modifications to one existing compressor station; and,
- Modification to an existing meter station for use of shared facilities with a new meter station.

Transco's consultants, BL Companies and TRC Solutions (TRC), have completed an analysis of potential impacts on FEMA delineated floodways from the Project in accordance with 25 Pa. Code § 105.13. The analysis for Hegins Township is provided below for your review and comment.

Hegins Township  
October 28, 2016  
BL Project No. 14C4909  
Page 1 of 3

**ATLANTIC SUNRISE PROJECT  
FEMA FLOODPLAIN CROSSINGS  
HEGINS TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

Description of Impact	Structure Type and Dimensions	Resource ID	Resource Name	Chapter 93 Classification, Wetland Classification (EV or Other), or Floodway Type	Floodway Fill (cu. yds.)	Impact area (acres)		Latitude	Longitude
						Temporary	Permanent		
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T20-8001	Floodway to Pine Creek	FEMA Detailed <sup>1,2</sup>	N/A	0.6545	0.0532 <sup>3</sup>	40.64681	-76.46069
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T16-9003	Floodway to Deep Creek	FEMA Detailed	N/A	0.3868	0.0427 <sup>3</sup>	40.67189	-76.46870

Notes:  
<sup>1</sup> Multiple streams are included in these calculations as the floodways overlap.  
<sup>2</sup> Includes both FEMA Detailed and Assumed 50 Foot buffers.  
<sup>3</sup> Permanent impacts associated with utility pipeline crossings are based on the permanent pipe footprint within the floodplain (pipe trench width x pipe crossing length). No permanent alternation to the floodway contours and elevation is associated with these permanent impacts.

The floodway crossings listed above are depicted on the enclosed plans from the Project’s PADEP Chapter 105 Permit Application.

Please note that construction activities are not expected to create permanent loss of flood storage capacity or hydraulic capacity, as all pre-construction surface elevations will be re-established during restoration. The temporary and permanent impacts noted above are associated with vegetation management and underground pipe installation only, and do not represent a permanent modification of ground elevation or loss of flood storage capacity or hydraulic capacity. No structures are proposed within the FEMA 100-year floodplain, no fill will be placed in the floodways, and no increase in 100-year flood elevation is anticipated as a result of the proposed Project.

On behalf of Transco, BL and TRC respectfully request that Hegins Township review this analysis and, if applicable, provide comments to:

Steve Crescenzo  
 TRC Environmental Corporation  
 2200 Liberty Avenue, Suite 100  
 Pittsburgh, PA 15222

**Please do not send comments directly to the PADEP**, as we must include them with our permit application. Should you have any questions or concerns regarding this notification, please contact Al Busher at (717)-651-9850 or via email at [abusher@blcompanies.com](mailto:abusher@blcompanies.com).

Sincerely,



Alaric J. Busher, PE  
 Senior Engineer

Enclosures: Water Obstruction and Encroachment Permit Impact Maps

**STREAM DISTURBANCE:**

STREAM WW-T20-8001A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0104
PERMANENT STREAM DISTURBANCE	0.0013
<b>TOTAL STREAM DISTURBANCE</b>	<b>0.0117</b>
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
<b>TOTAL FLOODWAY DISTURBANCE</b>	<b>0.0000</b>
<b>STREAM DIMENSION</b>	<b>FT.</b>
STREAM WIDTH (TOB TO TOB)	5.83
STREAM LENGTH	139.75

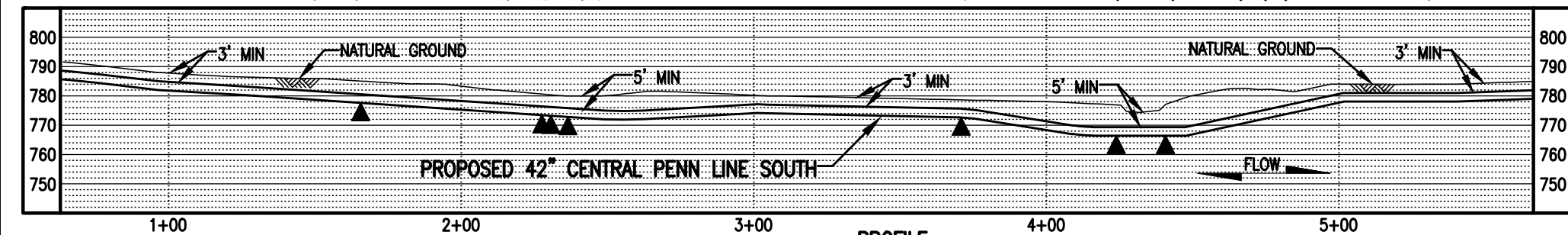
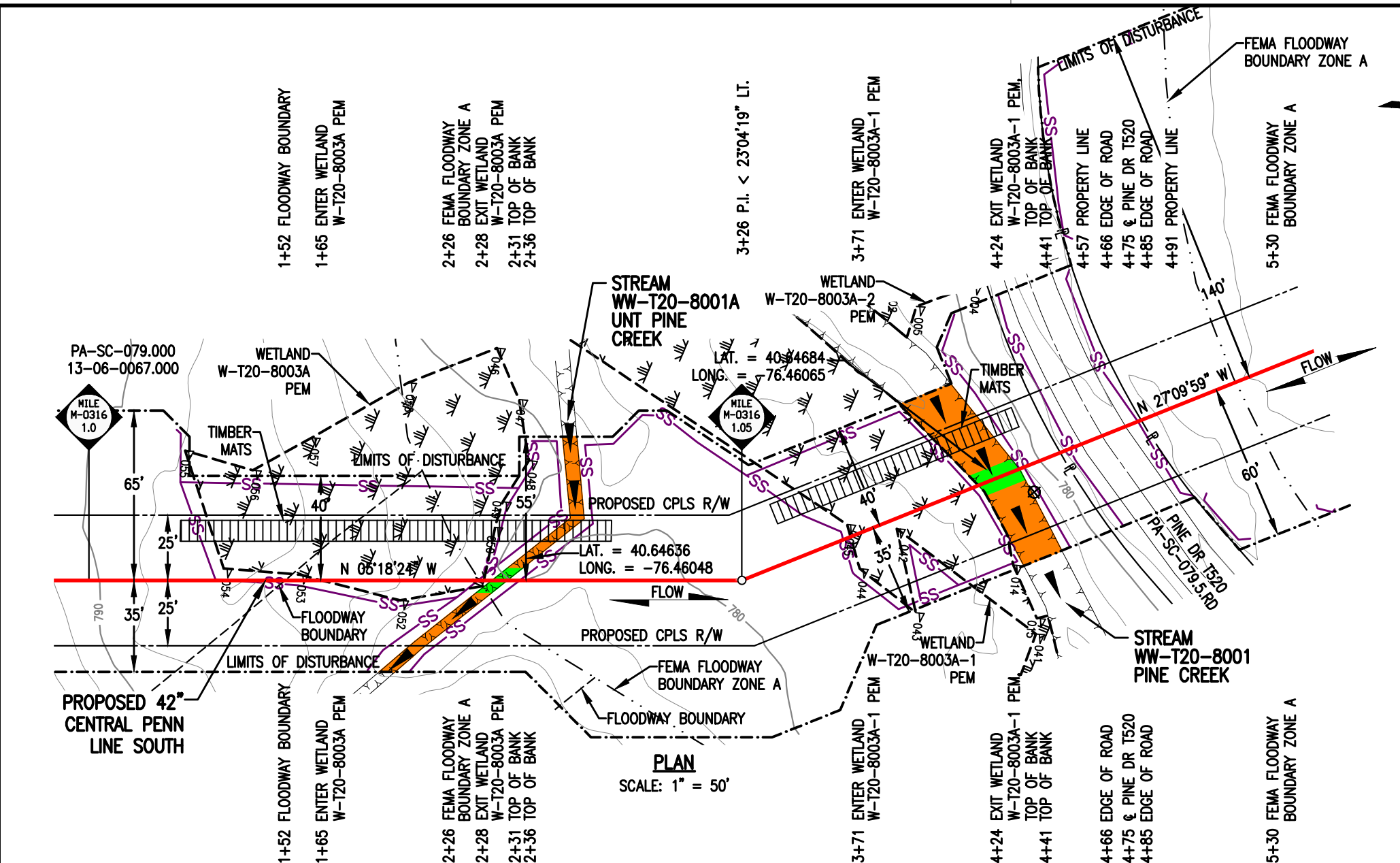
STREAM WW-T20-8001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0264
PERMANENT STREAM DISTURBANCE	0.0038
<b>TOTAL STREAM DISTURBANCE</b>	<b>0.0302</b>
TEMPORARY FLOODWAY DISTURBANCE	0.6545
PERMANENT FLOODWAY DISTURBANCE	0.0562
<b>TOTAL FLOODWAY DISTURBANCE</b>	<b>0.7107</b>
<b>STREAM DIMENSION</b>	<b>FT.</b>
STREAM WIDTH (TOB TO TOB)	16.85
STREAM LENGTH	77.40

**GENERAL NOTES:**

1. STREAM CROSSINGS METHOD FOR STREAM WW-T20-8001 & WW-T20-8001A SHALL BE DAM AND PUMP (DPX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. STREAM WW-T20-8001 IS LOCATED WITHIN THE 100 YEARS FLOOD PLAIN PER FEMA FLOOD MAP DATA. A PORTION OF STREAM WW-T20-8001A IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP.
3. STATION 1+00 SHOWN IS EQUAL TO M-0316 STATION 53+03 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

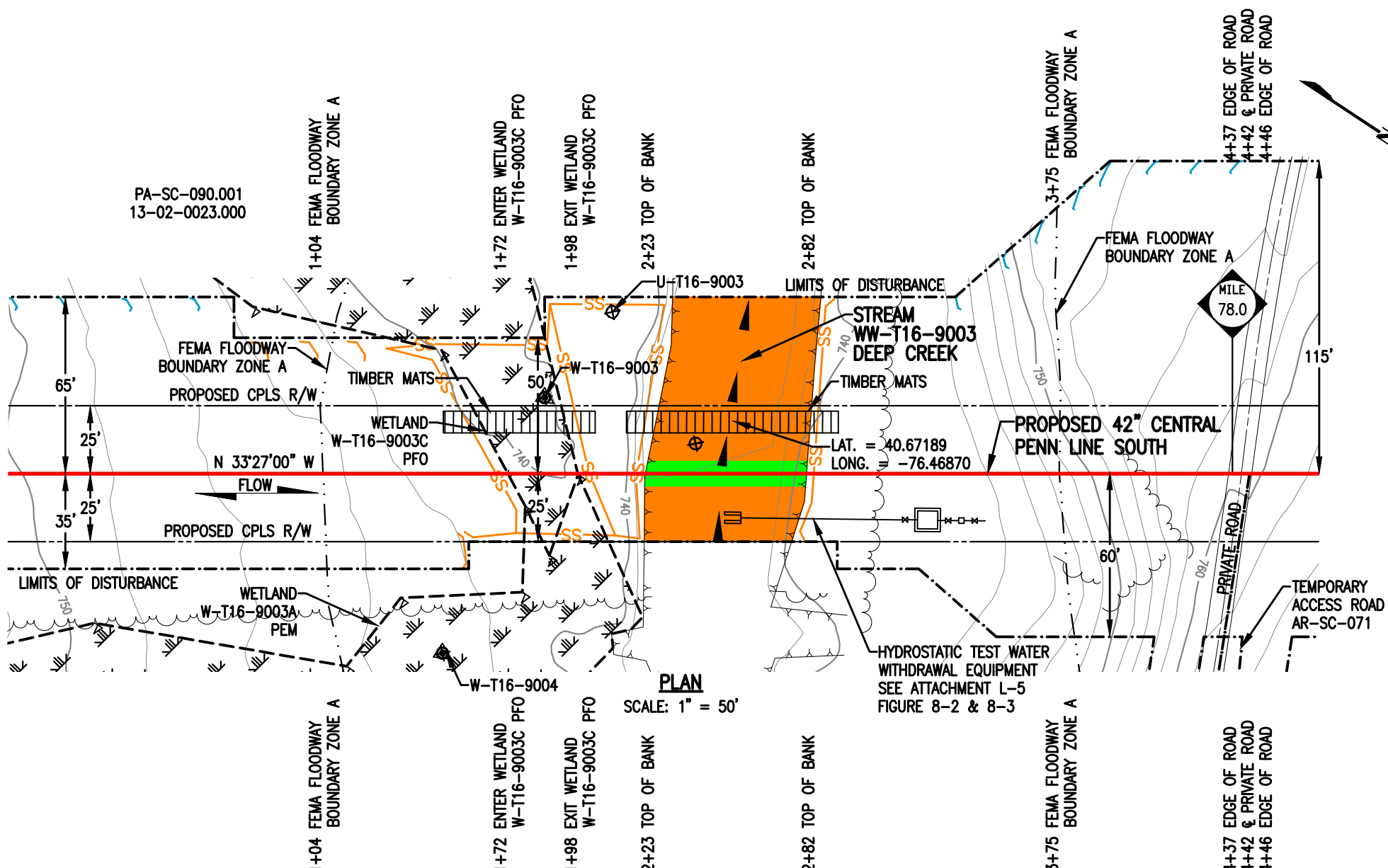
1. T.B.M. SURVEY CONTROL POINT - 154.5' RT. OF M.P. 76.11, ELEV. = 787.68 (NAVD88).



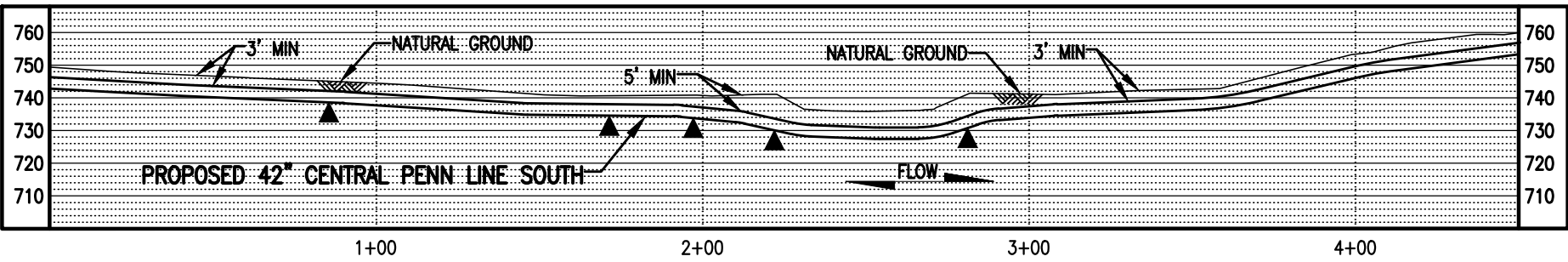
**LEGEND**

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		<b>WOOD GROUP MUSTANG, INC.</b>
	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		
	WETLAND AREA		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 CROSSINGS WW-T20-8001A &						
				WW-T20-8001 @ M-0316 M.P. 1.03						
				HEGINS TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: LL	DATE: 01/26/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	02/03/16	LL	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	CHECKED BY: ML	DATE: 01/28/16	ISSUED FOR CONSTRUCTION:	REVISION: 1
1	11/01/16	VC	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 02/03/16	DRAWING NUMBER: 24-1600-70-09-A/M-0316-1.05-01	SHEET 1
				10/3/2016		11r-o-jal				
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				9:30am						
				1161503						



**PLAN**  
SCALE: 1" = 50'



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

**STREAM DISTURBANCE:**

STREAM WW-T16-9003	ACRE
TEMPORARY STREAM DISTURBANCE	0.1024
PERMANENT STREAM DISTURBANCE	0.0136
TOTAL STREAM DISTURBANCE	0.1160
TEMPORARY FLOODWAY DISTURBANCE	0.3868
PERMANENT FLOODWAY DISTURBANCE	0.0427
TOTAL FLOODWAY DISTURBANCE	0.4295

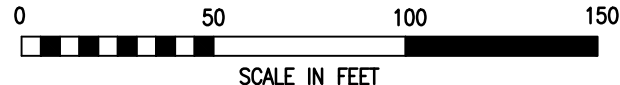
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	59.23
STREAM LENGTH	92.56

**GENERAL NOTES:**

1. STREAM CROSSING METHOD SHALL BE FLUME (FX). EQUIPMENT TO CROSS STREAM UTILIZING A BRIDGE EQUIPMENT CROSSING (BEC).
2. THIS SITE IS WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.
3. STATION 1+00 SHOWN IS EQUAL TO STATION 4115+06 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

1. T.B.M. SURVEY CONTROL POINT - 757' LT. OF M.P. 77.91, ELEV. = 751.25' (NAVD88).



**LEGEND**

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		<b>WOOD GROUP MUSTANG, INC.</b>
	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-T16-9003 M.P. 77.97 HEGINS TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/04/15	AT	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	02/03/16	THL	ISSUED FOR INTERNAL USE	1161503	CLR MJH
2	11/01/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: TL		DATE: 03/18/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: CLR		DATE: 05/15/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 05/19/15	DRAWING NUMBER: 24-1600-70-09-A/77.97-01	SHEET 1	
IWO: 1161503		10/3/2016	11r.o.jal	OF 1	



October 28, 2016

Pine Grove Township  
Floodplain Administrator  
175 Oak Grove Road  
Pine Grove, PA 17963

Re: Atlantic Sunrise Project  
Central Penn Line South  
Pine Grove Township, Schuylkill County  
Floodplain Management Analysis

Dear Sir or Madam:

Transcontinental Gas Pipeline Company, LLC (Transco) proposes to construct and operate the Atlantic Sunrise Project (Project) to provide 1.7 million dekatherms per day of incremental firm transportation of natural gas from the Marcellus Shale production areas in northern Pennsylvania (PA) to its existing market areas, extending to as far south as the Station 85 Pooling Point in Choctaw County, Alabama. The Project includes modifications to the existing Transco Mainline System to reverse the direction of flow, enabling new north-to-south capabilities (bi-directional flow) to transport this new source of natural gas to existing markets. The Project consists of the following primary components within PA:

- Installing greenfield pipeline facilities of approximately 58.6 miles of new 30-inch-diameter pipe from Susquehanna County, PA to Columbia County, PA.
- Installing greenfield pipeline facilities of approximately 127.3 miles of 42-inch-diameter pipe from Columbia County, PA to Lancaster County, PA.;
- Installing two pipeline loops (pipeline laid parallel to existing facilities):
  - 8.56 miles of 42-inch pipeline loop located in Lycoming County, PA known as the Unity Loop;
  - 2.50 miles of 36-inch pipeline in Clinton County, PA, known as the Chapman Loop;
- Constructing two new compressor stations, one in Wyoming County and one in Columbia County, PA;
- Additional ancillary facilities, such as mainline valves, cathodic protection, communication facilities, and internal inspection device (e.g., pig) launchers and receivers;
- Two new meter stations and three new regulator stations with interconnecting piping;
- Additional compression and related modifications to one existing compressor station; and,
- Modification to an existing meter station for use of shared facilities with a new meter station.

Transco's consultants, BL Companies and TRC Solutions (TRC), have completed an analysis of potential impacts on FEMA delineated floodways from the Project in accordance with 25 Pa. Code § 105.13. The analysis for Pine Grove Township is provided below for your review and comment.

Pine Grove Township  
October 28, 2016  
BL Project No. 14C4909  
Page 1 of 3

**ATLANTIC SUNRISE PROJECT  
FEMA FLOODPLAIN CROSSINGS  
PINE GROVE TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

Description of Impact	Structure Type and Dimensions	Resource ID	Resource Name	Chapter 93 Classification, Wetland Classification (EV or Other), or Floodway Type	Floodway Fill (cu. yds.)	Impact area (acres)		Latitude	Longitude
						Temporary	Permanent		
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T35-7002	Floodway to Mill Creek	FEMA Detailed <sup>1</sup>	N/A	0.4100	0.0386 <sup>2</sup>	40.53687	-76.47601
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T34-7002	Floodway to UNT to Mill Creek	FEMA Detailed	N/A	0.19418	0.0176 <sup>2</sup>	40.53791	-76.47381
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T34-8001	Floodway to UNT to Swatara Creek	FEMA Detailed	N/A	0.4628	0.0534 <sup>2</sup>	40.54168	-76.46100
Temporary Road Crossing	Equipment Access and E&S Controls	WW-T35-7002	Floodway to UNT to Swatara Creek	FEMA Detailed	N/A	0.0392	0.00	40.53444	-76.47780
Temporary Road Crossing	Equipment Access and E&S Controls	WW-T65-8001	Floodway to UNT to Swatara Creek	FEMA Detailed	N/A	0.0503	0.00	40.53476	-76.46213

Notes:  
<sup>1</sup> Multiple streams are included in these calculations as the floodways overlap.  
<sup>2</sup> Permanent impacts associated with utility pipeline crossings are based on the permanent pipe footprint within the floodplain (pipe trench width x pipe crossing length). No permanent alternation to the floodway contours and elevation is associated with these permanent impacts.  
<sup>3</sup> Floodway fill is associated with a temporary access road. Pre development contours will be restored prior to permit termination.

The floodway crossings listed above are depicted on the enclosed plans from the Project's PADEP Chapter 105 Permit Application.

Please note that construction activities are not expected to create permanent loss of flood storage capacity or hydraulic capacity, as all pre-construction surface elevations will be re-established during restoration. The temporary and permanent impacts noted above are associated with vegetation management and underground pipe installation and temporary access road grading only, and do not represent a permanent modification of ground elevation or loss of flood storage capacity or hydraulic capacity. No structures are proposed within the FEMA 100-year floodplain, no permanent fill will be placed in the floodways, and no increase in 100-year flood elevation is anticipated as a result of the proposed Project.

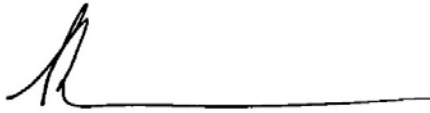
On behalf of Transco, BL and TRC respectfully request that Pine Grove Township review this analysis and, if applicable, provide comments to:

Steve Crescenzo  
TRC Environmental Corporation  
2200 Liberty Avenue, Suite 100  
Pittsburgh, PA 15222

**Please do not send comments directly to the PADEP**, as we must include them with our permit application. Should you have any questions or concerns regarding this notification, please contact Al Busher at (717)-651-9850 or via email at [abusher@blcompanies.com](mailto:abusher@blcompanies.com).

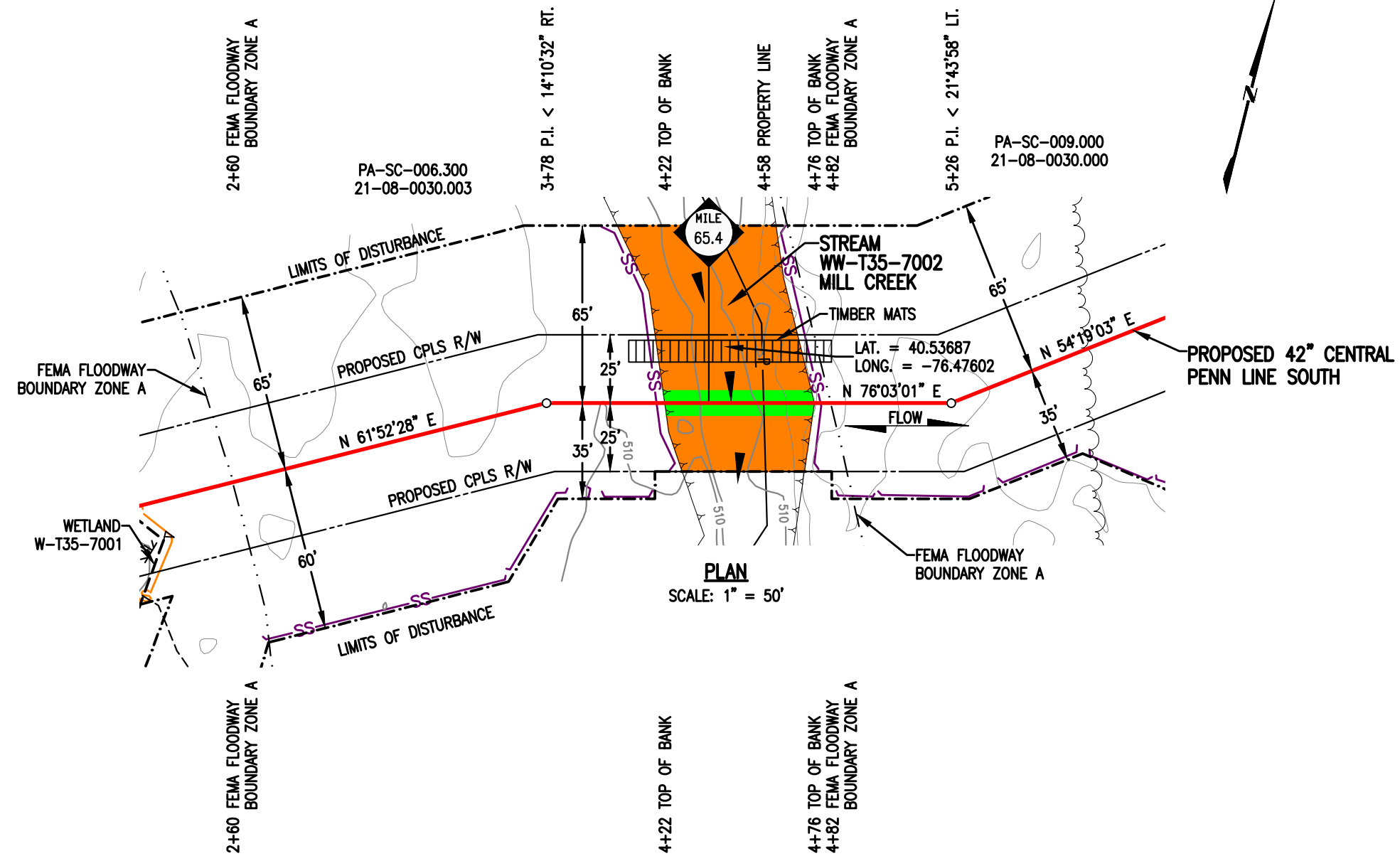
Sincerely,

Pine Grove Township  
October 28, 2016  
BL Project No. 14C4909  
Page 2 of 3



Alaric J. Busher, PE  
Senior Engineer

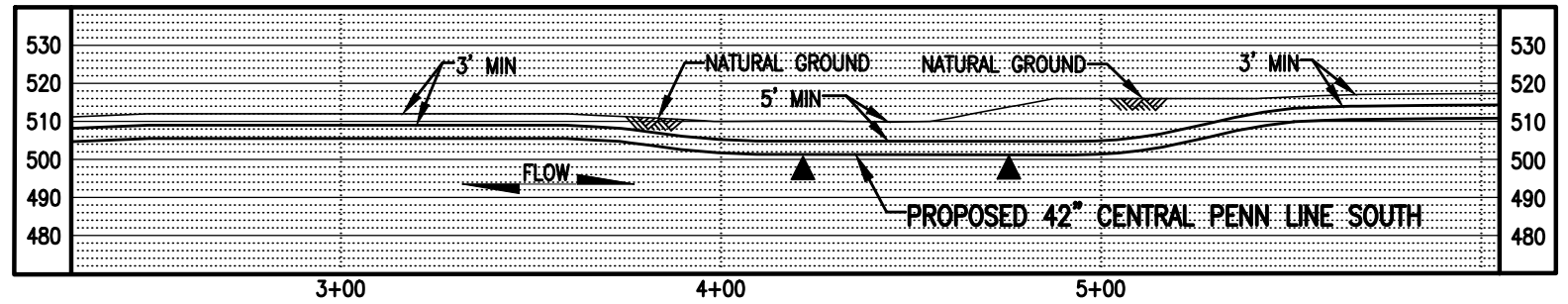
Enclosures: Water Obstruction and Encroachment Permit Impact Maps



**STREAM DISTURBANCE:**

STREAM WW-T35-7002	ACRE
TEMPORARY STREAM DISTURBANCE	0.0957
PERMANENT STREAM DISTURBANCE	0.0125
TOTAL STREAM DISTURBANCE	0.1082
TEMPORARY FLOODWAY DISTURBANCE	0.4100
PERMANENT FLOODWAY DISTURBANCE	0.0386
TOTAL FLOODWAY DISTURBANCE	0.4486

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	54.75
STREAM LENGTH	94.78

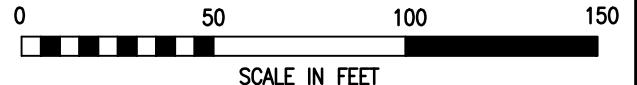


**GENERAL NOTES:**

1. STREAM CROSSING METHOD FOR WW-T35-7002 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 4+00 IS EQUAL TO STATION 3452+78 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

1. T.B.M. SURVEY CONTROL POINT - 74' LT. OF M.P. 65.40, ELEV. = 509.53' (NAVD88).

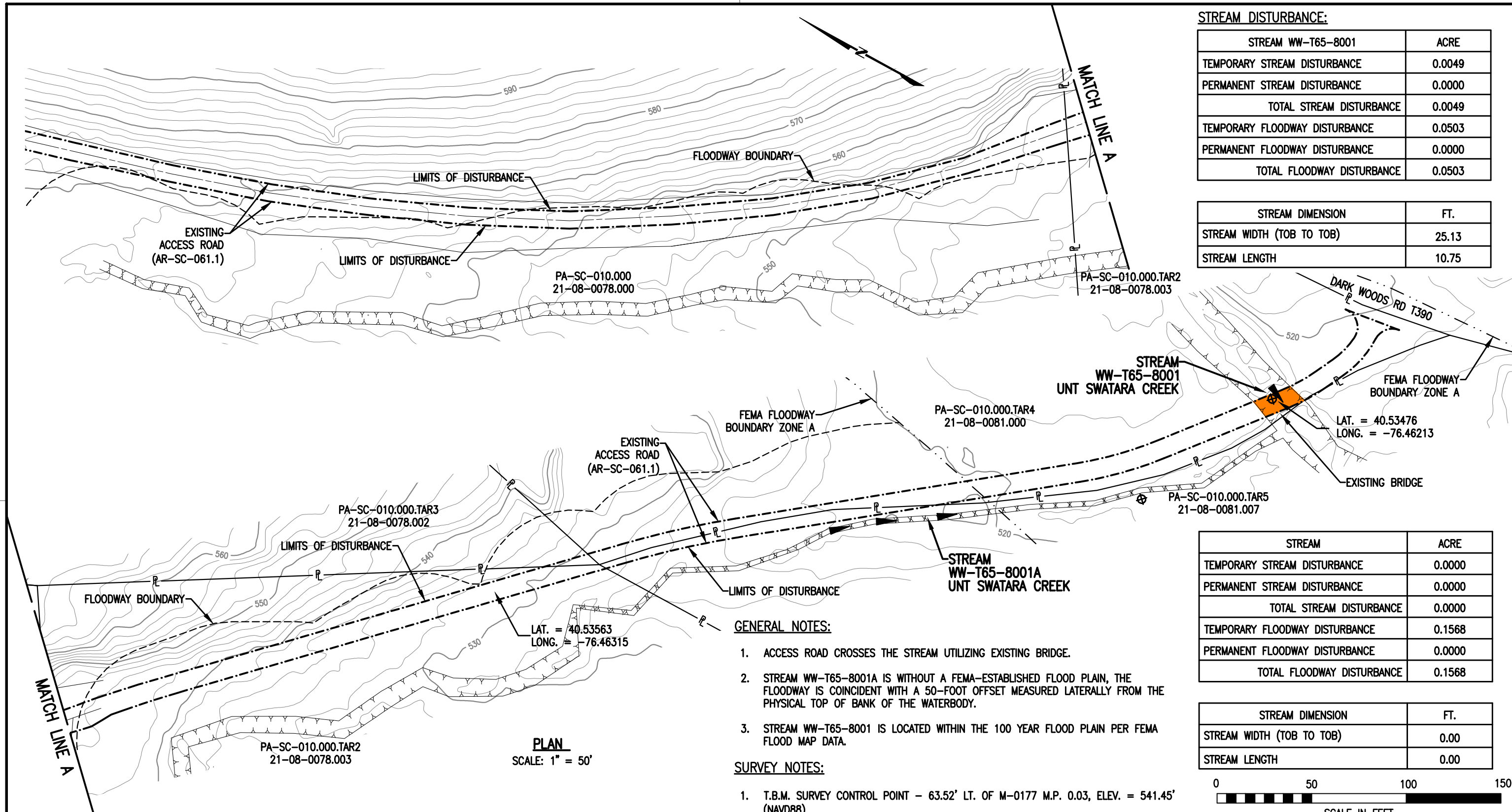


**LEGEND**

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		<b>WOOD GROUP MUSTANG, INC.</b>
	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-T35-7002 M.P. 65.40 PINE GROVE TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA	
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK. APP.
0	08/04/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR MJH
1	02/03/16	LL	ISSUED FOR INTERNAL USE	1161503	CLR MJH
2	11/01/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR MJH
DRAWN BY: TL		DATE: 04/08/15	ISSUED FOR BID:	SCALE: 1" = 50'	
CHECKED BY: CLR		DATE: 04/09/15	ISSUED FOR CONSTRUCTION:	REVISION: 2	
APPROVED BY: MJH		DATE: 05/19/15	DRAWING NUMBER: 24-1600-70-09-A/65.40-01	SHEET 1	
IWO: 1161503		9/30/2016	OF 1		





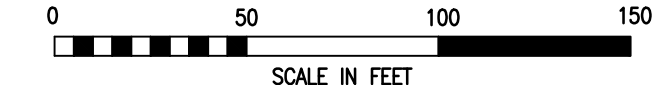
**STREAM DISTURBANCE:**

STREAM WW-T65-8001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0049
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0049
TEMPORARY FLOODWAY DISTURBANCE	0.0503
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0503

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	25.13
STREAM LENGTH	10.75

STREAM	ACRE
TEMPORARY STREAM DISTURBANCE	0.0000
PERMANENT STREAM DISTURBANCE	0.0000
TOTAL STREAM DISTURBANCE	0.0000
TEMPORARY FLOODWAY DISTURBANCE	0.1568
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.1568

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



**PLAN**  
SCALE: 1" = 50'

**GENERAL NOTES:**

1. ACCESS ROAD CROSSES THE STREAM UTILIZING EXISTING BRIDGE.
2. STREAM WW-T65-8001A IS WITHOUT A FEMA-ESTABLISHED FLOOD PLAIN, THE FLOODWAY IS COINCIDENT WITH A 50-FOOT OFFSET MEASURED Laterally FROM THE PHYSICAL TOP OF BANK OF THE WATERBODY.
3. STREAM WW-T65-8001 IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD MAP DATA.

**SURVEY NOTES:**

1. T.B.M. SURVEY CONTROL POINT - 63.52' LT. OF M-0177 M.P. 0.03, ELEV. = 541.45' (NAVD88).

**LEGEND**

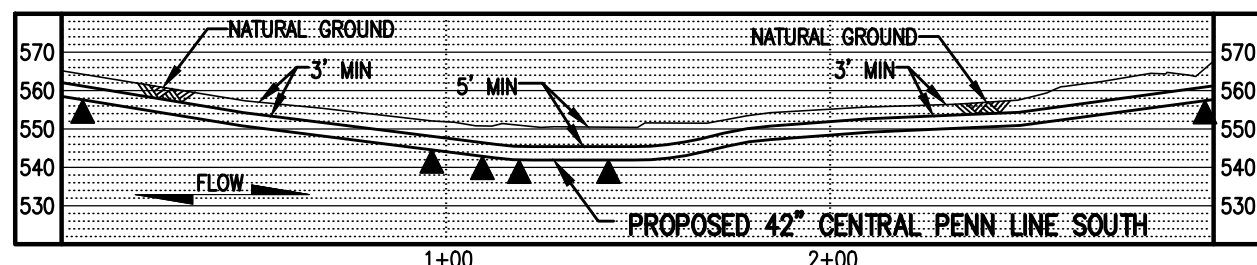
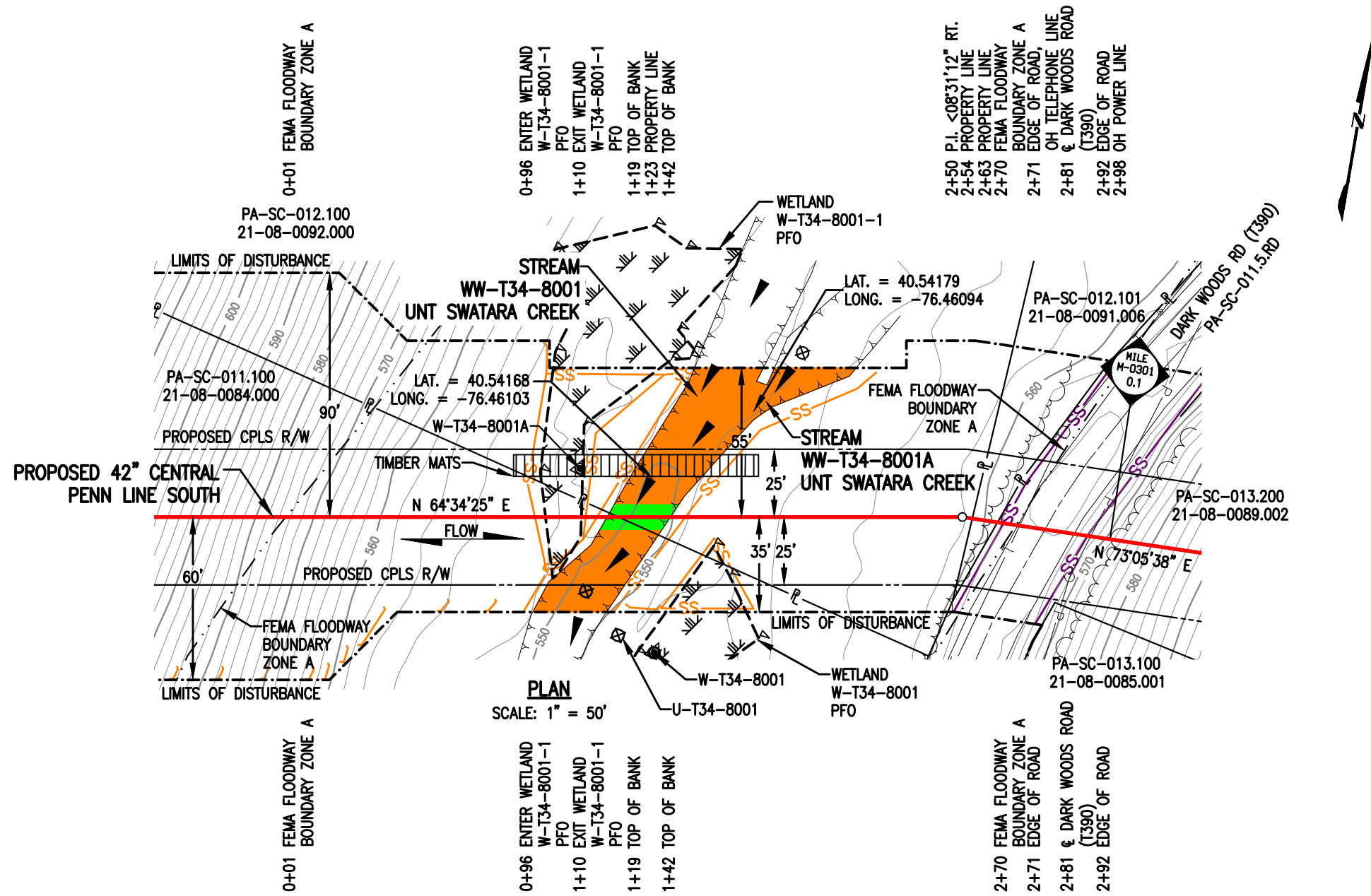
- PROPOSED 42" CENTRAL PENN LINE SOUTH
- EXISTING PIPELINES
- EXISTING TGPL R/W
- - - LIMITS OF DISTURBANCE
- PROPOSED CPLS R/W
- PROPERTY LINE
- FOREIGN PIPELINE
- WETLAND AREA
- ▲ STREAM FLOW
- EXISTING POWER LINE
- EXISTING FENCE

- ▲ 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		<b>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC</b> <b>WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS</b> <b>ATLANTIC SUNRISE PROJECT</b> <b>PROPOSED 42" CENTRAL PENN LINE SOUTH</b> <b>STREAM CROSSING WW-T65-8001 &amp; WW-T65-8001A</b> <b>© M-0177 M.P. 0.03</b> <b>PINE GROVE TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA</b>						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL	DATE: 06/24/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	11/01/16	THL	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 06/24/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
							APPROVED BY: MJH	DATE: 06/25/16	DRAWING NUMBER: 24-1600-70-09-A/AR-SC-061.1-01 SHEET 1	
							W.O. NO.: 1161503	10/19/2016		OF 1



**STREAM DISTURBANCE:**

STREAM WW-T34-8001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0346
PERMANENT STREAM DISTURBANCE	0.0033
TOTAL STREAM DISTURBANCE	0.0379
TEMPORARY FLOODWAY DISTURBANCE	0.4628
PERMANENT FLOODWAY DISTURBANCE	0.0534
TOTAL FLOODWAY DISTURBANCE	0.5162
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	14.39
STREAM LENGTH	103.05

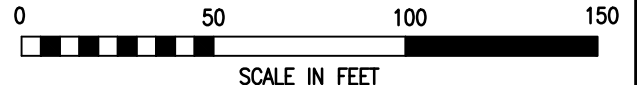
STREAM WW-T34-8001A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0226
PERMANENT STREAM DISTURBANCE	0.0020
TOTAL STREAM DISTURBANCE	0.0246
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000
STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	8.90
STREAM LENGTH	112.25

**GENERAL NOTES:**

1. STREAM CROSSING METHOD FOR WW-T34-8001 & FOR WW-T34-8001A 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 0+00 SHOWN IS EQUAL TO STATION 2+23 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

1. T.B.M. SURVEY CONTROL POINT - 18.15' RT. OF M-0301 M.P. 0.06, ELEV. = 551.79' (NAVD88).



**LEGEND**

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		<b>WOOD GROUP MUSTANG, INC.</b>
	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		<b>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC</b> <b>WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS</b> <b>ATLANTIC SUNRISE PROJECT</b> <b>PROPOSED 42" CENTRAL PENN LINE SOUTH</b> <b>STREAM CROSSINGS WW-T34-8001 @ M-0301 M.P. 0.07</b> <b>&amp; WW-T34-8001A @ M-0301 M.P. 0.08</b> <b>PINE GROVE TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA</b>							
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: THL	DATE: 01/26/16	ISSUED FOR BID:	SCALE: 1" = 50'	
0	02/03/16	THL	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	CHECKED BY: CLR	DATE: 01/28/16	ISSUED FOR CONSTRUCTION:	REVISION: 1	
1	11/01/16	JB	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 02/03/16	DRAWING NUMBER: 24-1600-70-09-A/M-0301-0.07-01	SHEET 1	
NO.		DATE		W.O. NO.		CHK.		APP.		DRAWING NUMBER: 24-1600-70-09-A/M-0301-0.07-01	
NO.		DATE		W.O. NO.		CHK.		APP.		DRAWING NUMBER: 24-1600-70-09-A/M-0301-0.07-01	
NO.		DATE		W.O. NO.		CHK.		APP.		DRAWING NUMBER: 24-1600-70-09-A/M-0301-0.07-01	



October 28, 2016

Porter Township  
Floodplain Administrator  
309 West Wiconisco Street  
Muir, PA 17957

Re: Atlantic Sunrise Project  
Central Penn Line South  
Porter Township, Schuylkill County  
Floodplain Management Analysis

Dear Sir or Madam:

Transcontinental Gas Pipeline Company, LLC (Transco) proposes to construct and operate the Atlantic Sunrise Project (Project) to provide 1.7 million dekatherms per day of incremental firm transportation of natural gas from the Marcellus Shale production areas in northern Pennsylvania (PA) to its existing market areas, extending to as far south as the Station 85 Pooling Point in Choctaw County, Alabama. The Project includes modifications to the existing Transco Mainline System to reverse the direction of flow, enabling new north-to-south capabilities (bi-directional flow) to transport this new source of natural gas to existing markets. The Project consists of the following primary components within PA:

- Installing greenfield pipeline facilities of approximately 58.6 miles of new 30-inch-diameter pipe from Susquehanna County, PA to Columbia County, PA.
- Installing greenfield pipeline facilities of approximately 127.3 miles of 42-inch-diameter pipe from Columbia County, PA to Lancaster County, PA.;
- Installing two pipeline loops (pipeline laid parallel to existing facilities):
  - 8.56 miles of 42-inch pipeline loop located in Lycoming County, PA known as the Unity Loop;
  - 2.50 miles of 36-inch pipeline in Clinton County, PA, known as the Chapman Loop;
- Constructing two new compressor stations, one in Wyoming County and one in Columbia County, PA;
- Additional ancillary facilities, such as mainline valves, cathodic protection, communication facilities, and internal inspection device (e.g., pig) launchers and receivers;
- Two new meter stations and three new regulator stations with interconnecting piping;
- Additional compression and related modifications to one existing compressor station; and,
- Modification to an existing meter station for use of shared facilities with a new meter station.

Transco's consultants, BL Companies and TRC Solutions (TRC), have completed an analysis of potential impacts on FEMA delineated floodways from the Project in accordance with 25 Pa. Code § 105.13. The analysis for Porter Township is provided below for your review and comment.

Porter Township  
October 28, 2016  
BL Project No. 14C4909  
Page 1 of 2

**ATLANTIC SUNRISE PROJECT  
FEMA FLOODPLAIN CROSSINGS  
PORTER TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

Description of Impact	Structure Type and Dimensions	Resource ID	Resource Name	Chapter 93 Classification, Wetland Classification (EV or Other), or Floodway Type	Floodway Fill (cu. yds.)	Impact area (acres)		Latitude	Longitude
						Temporary	Permanent		
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T35-8001	Floodway to Good Spring Creek	FEMA Detailed <sup>1</sup>	N/A	1.1190	0.1235 <sup>2</sup>	40.62673	-76.44122

Notes:  
<sup>1</sup> Multiple streams are included in these calculations as the floodways overlap.  
<sup>2</sup> Permanent impacts associated with utility pipeline crossings are based on the permanent pipe footprint within the floodplain (pipe trench width x pipe crossing length). No permanent alternation to the floodway contours and elevation is associated with these permanent impacts.

The floodway crossing listed above is depicted on the enclosed plans from the Project’s PADEP Chapter 105 Permit Application.

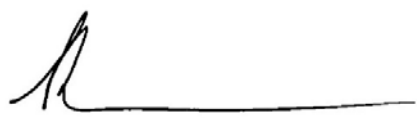
Please note that construction activities are not expected to create permanent loss of flood storage capacity or hydraulic capacity, as all pre-construction surface elevations will be re-established during restoration. The temporary and permanent impacts noted above are associated with vegetation management and underground pipe installation only, and do not represent a permanent modification of ground elevation or loss of flood storage capacity or hydraulic capacity. No structures are proposed within the FEMA 100-year floodplain, no fill will be placed in the floodways, and no increase in 100-year flood elevation is anticipated as a result of the proposed Project.

On behalf of Transco, BL and TRC respectfully request that Porter Township review this analysis and, if applicable, provide comments to:

Steve Crescenzo  
 TRC Environmental Corporation  
 2200 Liberty Avenue, Suite 100  
 Pittsburgh, PA 15222

**Please do not send comments directly to the PADEP.** as we must include them with our permit application. Should you have any questions or concerns regarding this notification, please contact Al Busher at (717)-651-9850 or via email at abusher@blcompanies.com.

Sincerely,



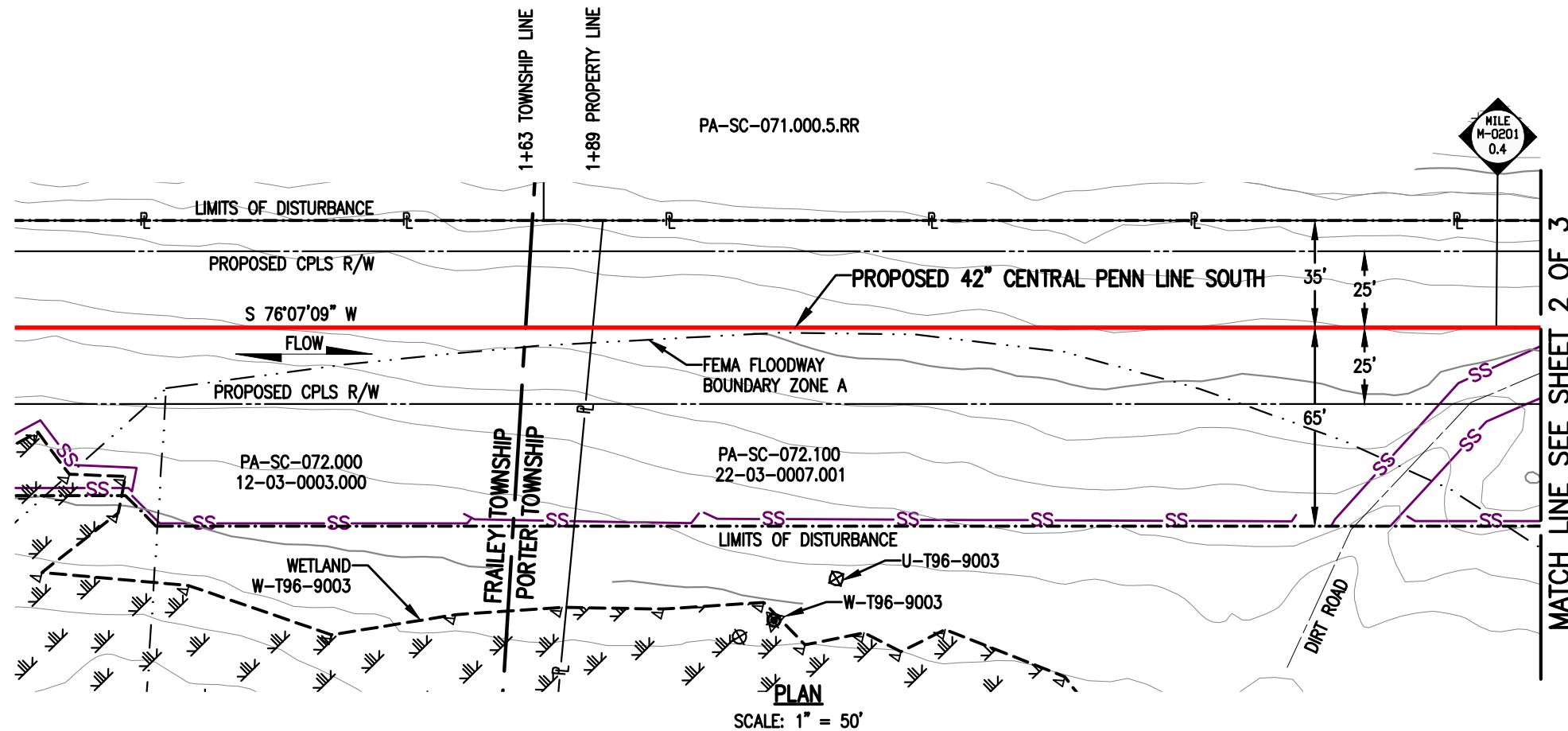
Alaric J. Busher, PE  
 Senior Engineer

Enclosures: Water Obstruction and Encroachment Permit Impact Maps

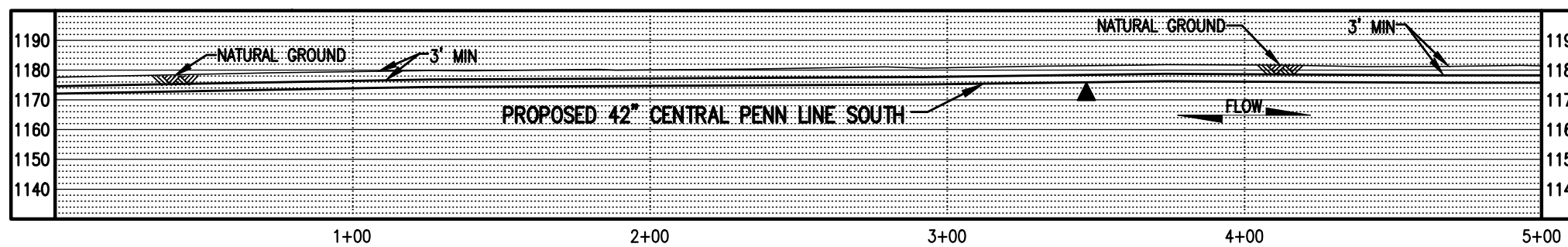
**STREAM DISTURBANCE:**

STREAM WW-T35-8001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0263
PERMANENT STREAM DISTURBANCE	0.0025
TOTAL STREAM DISTURBANCE	0.0288
TEMPORARY FLOODWAY DISTURBANCE	1.1190
PERMANENT FLOODWAY DISTURBANCE	0.0789
TOTAL FLOODWAY DISTURBANCE	1.1979

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	10.59
STREAM LENGTH	97.39



MATCH LINE SEE SHEET 2 OF 3



**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-0201 STATION 17+32 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

1. T.B.M. IRON ROD - 935' LT. OF M.P. 74.82, ELEV. = 1179.96' (NAVD88).

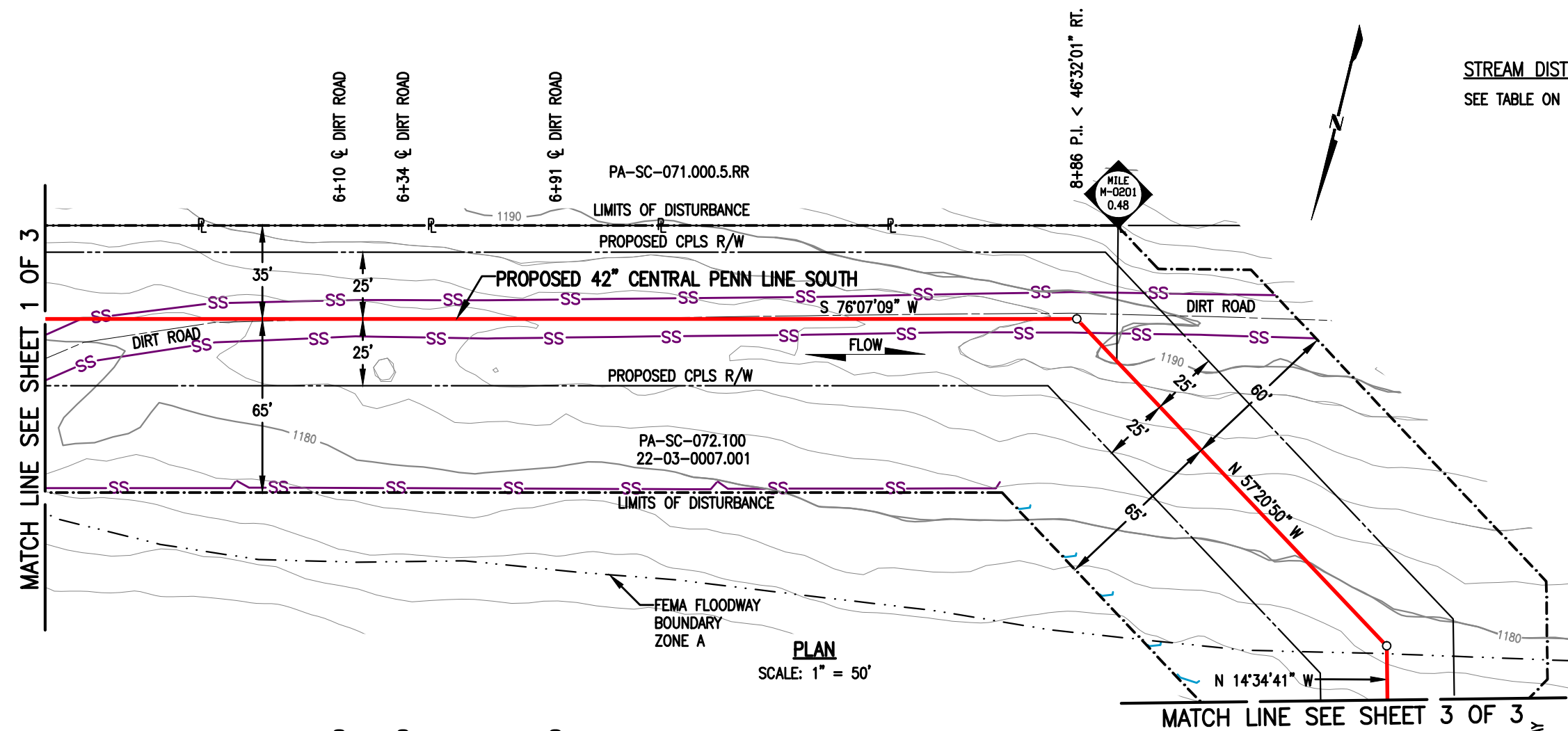


**LEGEND**

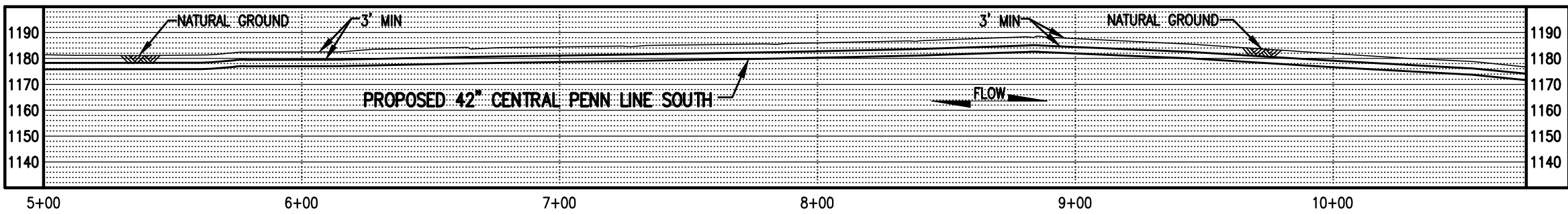
	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		<b>WOOD GROUP MUSTANG, INC.</b>
	EXISTING PIPELINES		PHOTO DATA POINT		12" SEDIMENT BARRIER
	EXISTING TGPL R/W		WETLAND DATA POINT		18" SEDIMENT BARRIER
	LIMITS OF DISTURBANCE		UPLAND DATA POINT		24" SEDIMENT BARRIER
	PROPOSED CPLS R/W		WELL POINT		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		<b>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC</b> <b>WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS</b> <b>ATLANTIC SUNRISE PROJECT</b> <b>PROPOSED 42" CENTRAL PENN LINE SOUTH</b> <b>STREAM CROSSING WW-T35-8001</b> <b>© M.P. 74.74</b> <b>FRAILEY/PORTER TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA</b>						
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: CM	DATE: 06/29/16	ISSUED FOR BID:	SCALE: 1" = 50'
0	11/01/16	DLK	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	CHECKED BY: ML	DATE: 06/29/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH		DATE: 06/29/16		DRAWING NUMBER: 24-1600-70-09-A/74.74-01		SHEET 1		OF 3		
W.O. NUMBER: 1161503		DATE: 10/3/2016		FILE: 11r-o.jal						

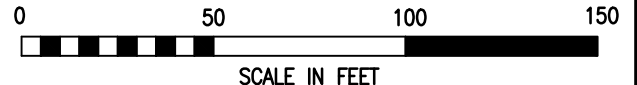
STREAM DISTURBANCE:  
SEE TABLE ON SHEET 1 OF 3



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

**WOOD GROUP MUSTANG, INC.**

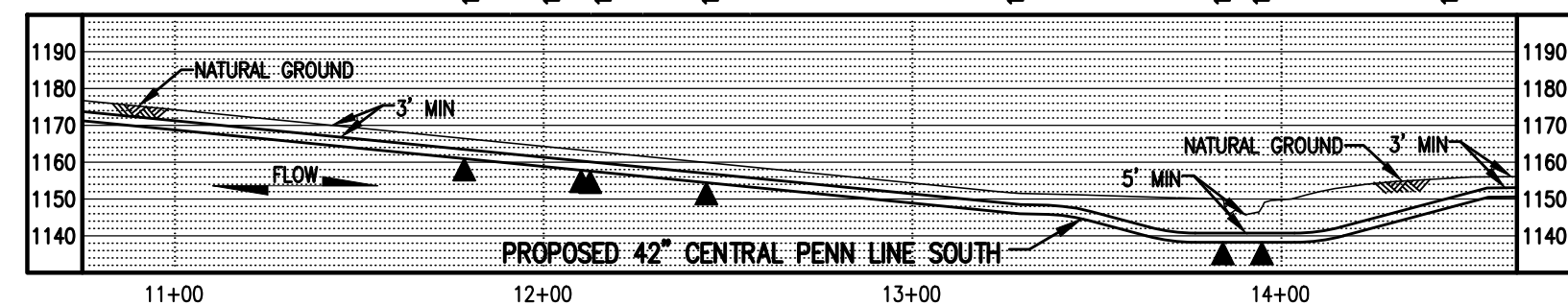
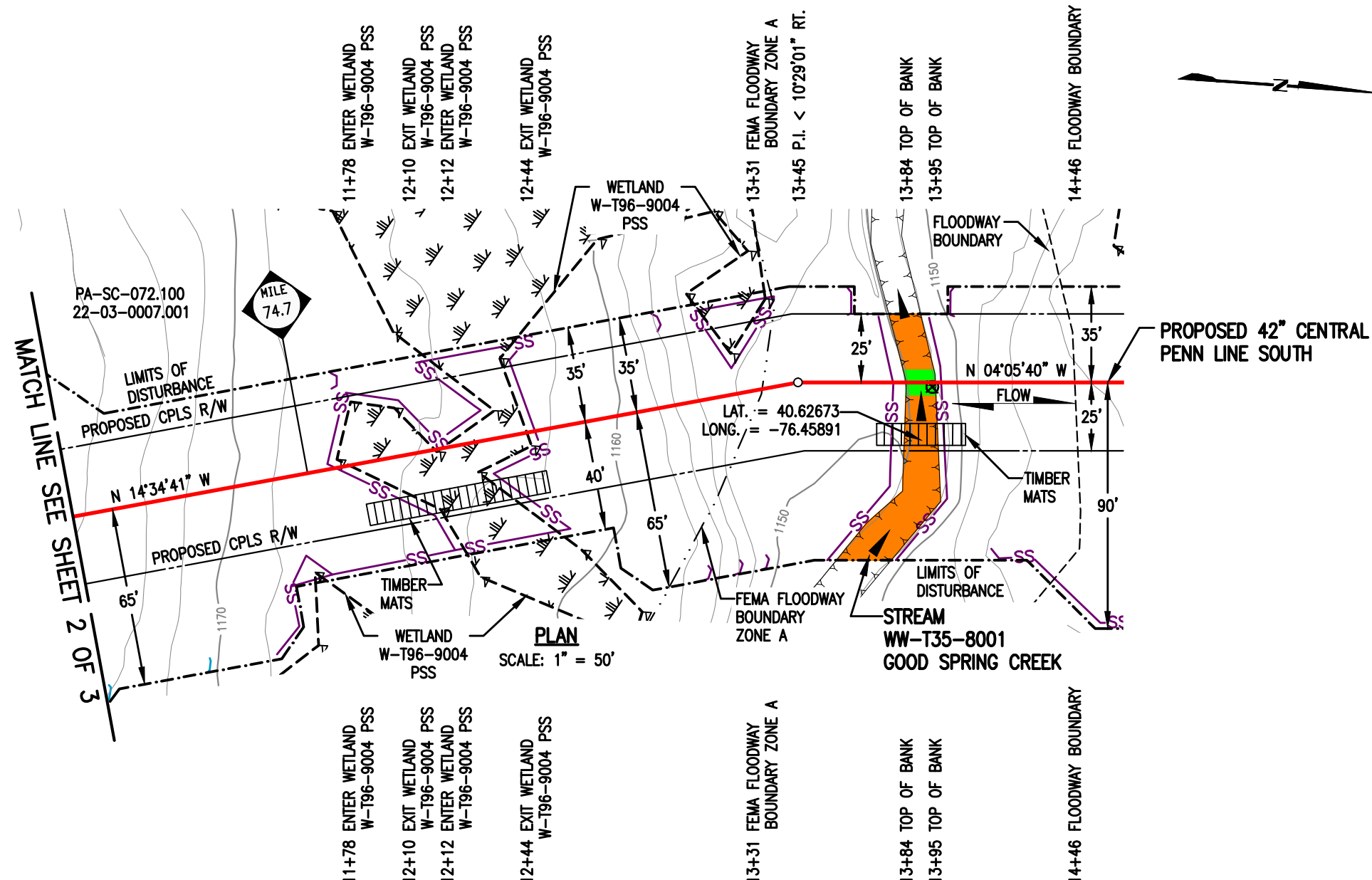
DRAWING NO.		REFERENCE TITLE				
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	11/01/16	DLK	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH

**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-T35-8001**  
**© M.P. 74.74**  
**PORTER TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

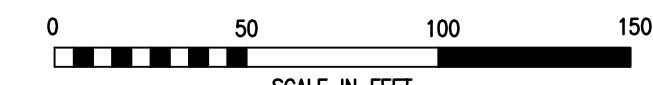
**Williams**

DRAWN BY: CM	DATE: 06/29/16	ISSUED FOR BID:	SCALE: 1" = 50'
CHECKED BY: ML	DATE: 06/29/16	ISSUED FOR CONSTRUCTION:	REVISION: 0
APPROVED BY: MJH	DATE: 06/29/16	DRAWING NUMBER: 24-1600-70-09-A/74.74-01	SHEET 2
WO: 1161503		10/3/2016 11:01:01	OF 3

STREAM DISTURBANCE:  
SEE TABLE ON SHEET 1 OF 3



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



**LEGEND**

	PROPOSED 42" CENTRAL PENN LINE SOUTH		WETLAND FLAGS		<b>WOOD GROUP MUSTANG, INC.</b>
	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 C/PLS 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
0	08/04/15	AT	ISSUED FOR PADEP 105 PERMIT
1	02/03/16	TL	ISSUED FOR INTERNAL USE
2	11/01/16	DLK	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-T35-8001**  
**© M.P. 74.74**  
**PORTER TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

W.O. NO.	CHK.	APP.	DRAWN BY: CM	DATE: 02/06/15	ISSUED FOR BID:	SCALE: 1" = 50'
1161503	CLR	MJH	CHECKED BY: ML	DATE: 04/10/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1161503	CLR	MJH	APPROVED BY: MJH	DATE: 05/19/15	DRAWING NUMBER: 24-1600-70-09-A/74.74-01	SHEET 3
1161503	CLR	MJH	IWO: 1161503		10/3/2016 11:03:43 AM	OF 3



October 28, 2016

Tremont Township  
Floodplain Administrator  
166 Molleystown Road  
Pine Grove, PA 17963

Re: Atlantic Sunrise Project  
Central Penn Line South  
Tremont Township, Schuylkill County  
Floodplain Management Analysis

Dear Sir or Madam:

Transcontinental Gas Pipeline Company, LLC (Transco) proposes to construct and operate the Atlantic Sunrise Project (Project) to provide 1.7 million dekatherms per day of incremental firm transportation of natural gas from the Marcellus Shale production areas in northern Pennsylvania (PA) to its existing market areas, extending to as far south as the Station 85 Pooling Point in Choctaw County, Alabama. The Project includes modifications to the existing Transco Mainline System to reverse the direction of flow, enabling new north-to-south capabilities (bi-directional flow) to transport this new source of natural gas to existing markets. The Project consists of the following primary components within PA:

- Installing greenfield pipeline facilities of approximately 58.6 miles of new 30-inch-diameter pipe from Susquehanna County, PA to Columbia County, PA.
- Installing greenfield pipeline facilities of approximately 127.3 miles of 42-inch-diameter pipe from Columbia County, PA to Lancaster County, PA.;
- Installing two pipeline loops (pipeline laid parallel to existing facilities):
  - 8.56 miles of 42-inch pipeline loop located in Lycoming County, PA known as the Unity Loop;
  - 2.50 miles of 36-inch pipeline in Clinton County, PA, known as the Chapman Loop;
- Constructing two new compressor stations, one in Wyoming County and one in Columbia County, PA;
- Additional ancillary facilities, such as mainline valves, cathodic protection, communication facilities, and internal inspection device (e.g., pig) launchers and receivers;
- Two new meter stations and three new regulator stations with interconnecting piping;
- Additional compression and related modifications to one existing compressor station; and,
- Modification to an existing meter station for use of shared facilities with a new meter station.

Transco's consultants, BL Companies and TRC Solutions (TRC), have completed an analysis of potential impacts on FEMA delineated floodways from the Project in accordance with 25 Pa. Code § 105.13. The analysis for Tremont Township is provided below for your review and comment.

Tremont Township  
October 28, 2016  
BL Project No. 14C4909  
Page 1 of 2

**ATLANTIC SUNRISE PROJECT  
FEMA FLOODPLAIN CROSSINGS  
TREMONT TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA**

Description of Impact	Structure Type and Dimensions	Resource ID	Resource Name	Chapter 93 Classification, Wetland Classification (EV or Other), or Floodway Type	Floodway Fill (cu. yds.)	Impact area (acres)		Latitude	Longitude
						Temporary	Permanent		
Utility Pipeline Crossing	Equipment Access and E&S Controls	WW-T31-8001	Floodway to Lorberry Creek	FEMA Detailed <sup>1</sup>	N/A	0.3099	0.0347 <sup>2</sup>	40.58899	-76.41957

Notes:  
<sup>1</sup> Multiple streams are included in these calculations as the floodways overlap.  
<sup>2</sup> Permanent impacts associated with utility pipeline crossings are based on the permanent pipe footprint within the floodplain (pipe trench width x pipe crossing length). No permanent alternation to the floodway contours and elevation is associated with these permanent impacts.

The floodway crossing listed above is depicted on the enclosed plans from the Project’s PADEP Chapter 105 Permit Application.

Please note that construction activities are not expected to create permanent loss of flood storage capacity or hydraulic capacity, as all pre-construction surface elevations will be re-established during restoration. The temporary and permanent impacts noted above are associated with vegetation management and underground pipe installation only, and do not represent a permanent modification of ground elevation or loss of flood storage capacity or hydraulic capacity. No structures are proposed within the FEMA 100-year floodplain, no fill will be placed in the floodways, and no increase in 100-year flood elevation is anticipated as a result of the proposed Project.

On behalf of Transco, BL and TRC respectfully request that Tremont Township review this analysis and, if applicable, provide comments to:

Steve Crescenzo  
 TRC Environmental Corporation  
 2200 Liberty Avenue, Suite 100  
 Pittsburgh, PA 15222

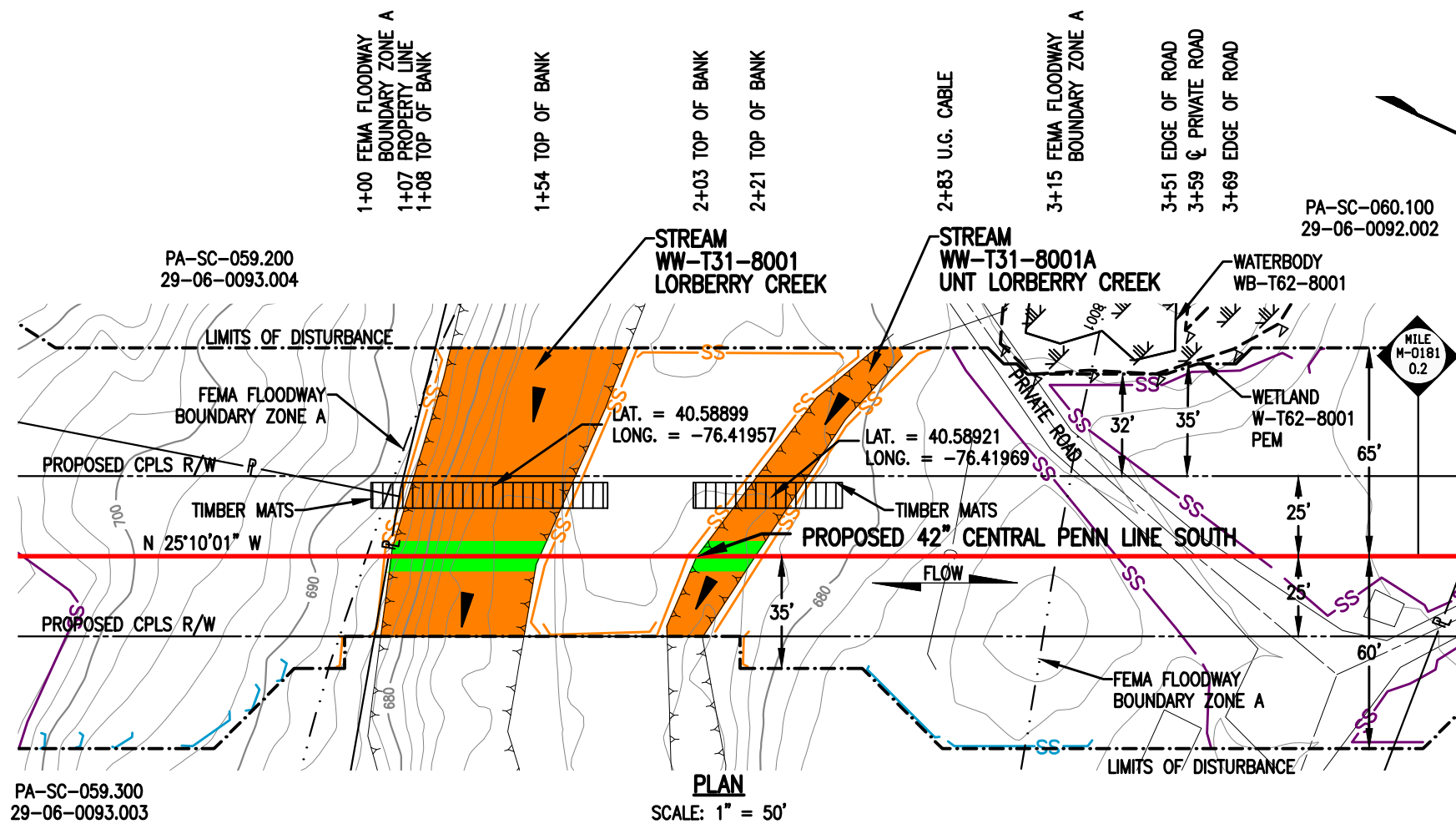
**Please do not send comments directly to the PADEP.** as we must include them with our permit application. Should you have any questions or concerns regarding this notification, please contact Al Busher at (717)-651-9850 or via email at abusher@blcompanies.com.

Sincerely,



Alaric J. Busher, PE  
 Senior Engineer

Enclosures: Water Obstruction and Encroachment Permit Impact Maps



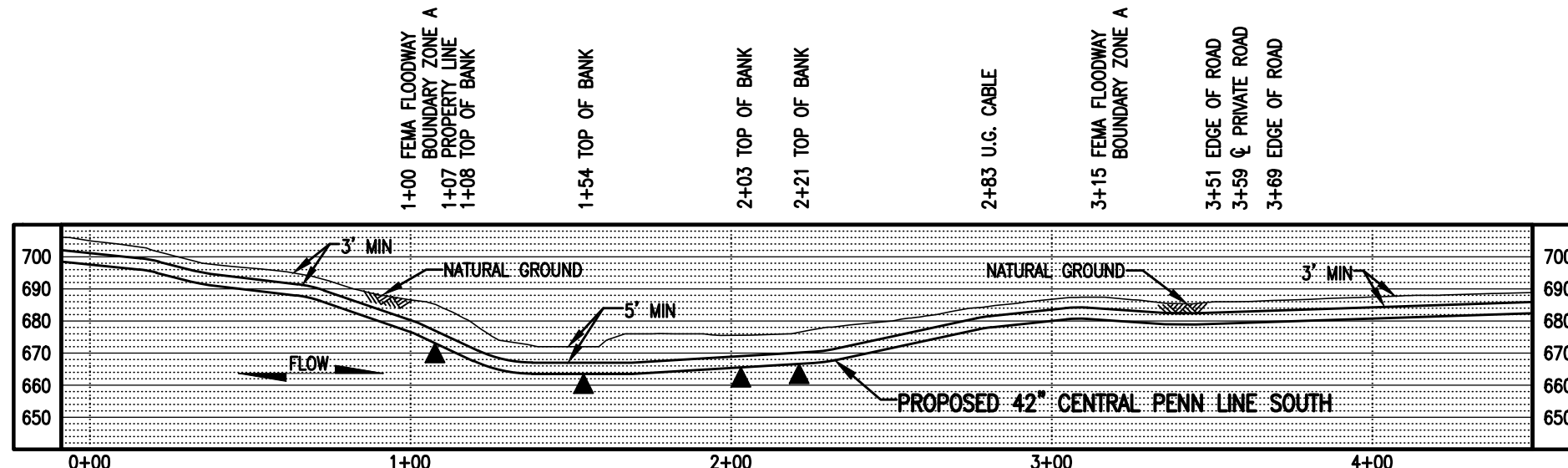
**STREAM DISTURBANCE:**

STREAM WW-T31-8001	ACRE
TEMPORARY STREAM DISTURBANCE	0.0917
PERMANENT STREAM DISTURBANCE	0.0106
TOTAL STREAM DISTURBANCE	0.1023
TEMPORARY FLOODWAY DISTURBANCE	0.3100
PERMANENT FLOODWAY DISTURBANCE	0.0347
TOTAL FLOODWAY DISTURBANCE	0.3447

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	46.32
STREAM LENGTH	91.73

STREAM WW-T31-8001A	ACRE
TEMPORARY STREAM DISTURBANCE	0.0272
PERMANENT STREAM DISTURBANCE	0.0041
TOTAL STREAM DISTURBANCE	0.0313
TEMPORARY FLOODWAY DISTURBANCE	0.0000
PERMANENT FLOODWAY DISTURBANCE	0.0000
TOTAL FLOODWAY DISTURBANCE	0.0000

STREAM DIMENSION	FT.
STREAM WIDTH (TOB TO TOB)	18.19
STREAM LENGTH	107.18



**GENERAL NOTES:**

1. STREAM CROSSING METHOD FOR WW-T31-8001 AND WW-T31-8001A 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-0181 STATION 07+28 ON THE EROSION AND SEDIMENT CONTROL PLAN.

**SURVEY NOTES:**

1. T.B.M. SURVEY CONTROL POINT - 32' LT. OF M-0181 M.P. 0.05, ELEV. = 686.16' (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		

DRAWING NO.		REFERENCE TITLE								
<b>TRANSCONTINENTAL GAS PIPE LINE COMPANY LLC</b> <b>WATER OBSTRUCTION AND ENCROACHMENT PERMIT IMPACT MAPS</b> <b>ATLANTIC SUNRISE PROJECT</b> <b>PROPOSED 42" CENTRAL PENN LINE SOUTH</b> <b>STREAM CROSSINGS WW-T31-8001 @ M-0181 M.P. 0.14</b> <b>&amp; WW-T31-8001A @ M-0181 M.P. 0.16</b> <b>TREMONT TOWNSHIP, SCHUYLKILL COUNTY, PENNSYLVANIA</b>										
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.	DRAWN BY: TL	DATE: 04/02/15	ISSUED FOR BID:	SCALE: 1" = 50'
0	08/04/15	TL	ISSUED FOR PADEP 105 PERMIT	1161503	CLR	MJH	CHECKED BY: DS	DATE: 05/15/15	ISSUED FOR CONSTRUCTION:	REVISION: 2
1	02/03/16	SY	ISSUED FOR INTERNAL USE	1161503	CLR	MJH	APPROVED BY: MJH	DATE: 05/19/15	DRAWING NUMBER: 24-1600-70-09-A/M-0181-0.15-01	SHEET 1
2	11/01/16	AT	ISSUED FOR PADEP SUBMITTAL #2	1161503	CLR	MJH	IWO: 1161503	DATE: 10/5/2016	altraha	OF 1

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**Kathy Cash**

## FedEx® Tracking

**777592763307**

Ship date:

**Mon 10/31/2016**

Houston, TX US

Actual delivery:

**Tue 11/01/2016 4:15 pm**

PITMAN, PA US

**Delivered**

*On FedEx vehicle for delivery  
Signature not required*

### Travel History

Date/Time	Activity	Location
<b>11/01/2016 - Tuesday</b>		
4:15 pm	Delivered	PITMAN, PA
	Left at garage. Package delivered to recipient address - release authorized	
9:01 am	On FedEx vehicle for delivery	READING, PA
8:32 am	At local FedEx facility	READING, PA
6:16 am	At destination sort facility	ALLENTOWN, PA
3:27 am	Departed FedEx location	MEMPHIS, TN
<b>10/31/2016 - Monday</b>		
11:37 pm	Arrived at FedEx location	MEMPHIS, TN
8:37 pm	Left FedEx origin facility	HOUSTON, TX
6:38 pm	Picked up	HOUSTON, TX
5:43 pm	Picked up	KINGWOOD, TX
7:30 am	Tendered at FedEx Office Shipment information sent to FedEx	

### Shipment Facts

<b>Tracking number</b>	777592763307	<b>Service</b>	FedEx Priority Overnight
<b>Weight</b>	0.5 lbs / 0.23 kgs	<b>Delivered To</b>	Residence
<b>Total pieces</b>	1	<b>Total shipment weight</b>	0.5 lbs / 0.23 kgs
<b>Terms</b>	Shipper	<b>Packaging</b>	FedEx Envelope
<b>Special handling section</b>	Deliver Weekday, Residential Delivery	<b>Standard transit</b>	11/01/2016 by 4:30 pm



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## Lacey, Suzan

---

**From:** trackingupdates@fedex.com  
**Sent:** Tuesday, November 01, 2016 3:21 PM  
**To:** Lacey, Suzan  
**Subject:** FedEx Shipment 777592763307 Delivered

## Your package has been delivered

Tracking # 777592763307

Ship date:  
**Mon, 10/31/2016**

**Suzan Lacey**  
B L COMPANIES  
Houston, TX 77070  
US



Delivery date:  
**Tue, 11/1/2016 4:15 pm**

**Floodplain Administrator**  
Eldred Township  
154 Ridge Road  
PITMAN, PA 17964  
US



### Shipment Facts

Our records indicate that the following package has been delivered.

**Tracking number:** [777592763307](#)

**Status:** Delivered: 11/01/2016 4:15 PM  
Signed for By: Signature not required

**Signed for by:** Signature not required

**Delivery location:** PITMAN, PA

**Delivered to:** Residence

**Service type:** FedEx Priority Overnight

**Packaging type:** FedEx Envelope

**Number of pieces:** 1

**Weight:** 0.50 lb.

**Special handling/Services:** Deliver Weekday  
Residential Delivery

**Standard transit:** 11/1/2016 by 4:30 pm



FedEx® Tracking

**777592821450**

Ship date:

**Mon 10/31/2016**

Actual delivery:

**Tue 11/01/2016 1:45 pm**

**B L COMPANIES**

Suzan Lacey  
Suite 220  
19500 State Hwy 249  
Houston, TX US 77070  
281 671-5139

**Delivered**

*On FedEx vehicle for delivery  
Signature not required*

**Frailey Township**

Floodplain Administrator  
23 Maryland Street  
DONALDSON, PA US 17961  
717 943-1686

Travel History

Date/Time	Activity	Location
<b>11/01/2016 - Tuesday</b>		
1:45 pm	Delivered	DONALDSON, PA
	Left at front door. Package delivered to recipient address - release authorized	
9:01 am	On FedEx vehicle for delivery	READING, PA
8:33 am	At local FedEx facility	READING, PA
6:16 am	At destination sort facility	ALLENTOWN, PA
3:27 am	Departed FedEx location	MEMPHIS, TN
<b>10/31/2016 - Monday</b>		
11:37 pm	Arrived at FedEx location	MEMPHIS, TN
8:37 pm	Left FedEx origin facility	HOUSTON, TX
6:38 pm	Picked up	HOUSTON, TX
5:43 pm	Picked up	KINGWOOD, TX
	Tendered at FedEx Office	
7:41 am	Shipment information sent to FedEx	

Shipment Facts

<b>Tracking number</b>	777592821450	<b>Service</b>	FedEx Priority Overnight
<b>Weight</b>	0.5 lbs / 0.23 kgs	<b>Delivery attempts</b>	1
<b>Delivered To</b>	Residence	<b>Total pieces</b>	1
<b>Total shipment weight</b>	0.5 lbs / 0.23 kgs	<b>Terms</b>	Not Available
<b>Packaging</b>	FedEx Envelope	<b>Special handling section</b>	Deliver Weekday, Residential Delivery
<b>Standard transit</b>	11/01/2016 by 4:30 pm		



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# FedEx® Tracking

**777592866397**

Ship date:

**Mon 10/31/2016**

Houston, TX US

Actual delivery:

**Tue 11/01/2016 3:23 pm**

VALLEY VIEW, PA US

**Delivered**

*On FedEx vehicle for delivery  
Signature not required*

## Travel History

Date/Time	Activity	Location
<b>11/01/2016 - Tuesday</b>		
3:23 pm	Delivered	VALLEY VIEW, PA
	Package delivered to recipient address - release authorized	
9:01 am	On FedEx vehicle for delivery	READING, PA
8:30 am	At local FedEx facility	READING, PA
6:16 am	At destination sort facility	ALLENTOWN, PA
3:27 am	Departed FedEx location	MEMPHIS, TN
<b>10/31/2016 - Monday</b>		
11:37 pm	Arrived at FedEx location	MEMPHIS, TN
8:37 pm	Left FedEx origin facility	HOUSTON, TX
6:39 pm	Picked up	HOUSTON, TX
5:43 pm	Picked up	KINGWOOD, TX
	Tendered at FedEx Office	
7:51 am	Shipment information sent to FedEx	

## Shipment Facts

<b>Tracking number</b>	777592866397	<b>Service</b>	FedEx Priority Overnight
<b>Weight</b>	0.5 lbs / 0.23 kgs	<b>Delivered To</b>	Residence
<b>Total pieces</b>	1	<b>Total shipment weight</b>	0.5 lbs / 0.23 kgs
<b>Terms</b>	Shipper	<b>Packaging</b>	FedEx Envelope
<b>Special handling section</b>	Deliver Weekday, Residential Delivery	<b>Standard transit</b>	11/01/2016 by 4:30 pm



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## Lacey, Suzan

---

**From:** trackingupdates@fedex.com  
**Sent:** Tuesday, November 01, 2016 2:29 PM  
**To:** Lacey, Suzan  
**Subject:** FedEx Shipment 777592866397 Delivered

## Your package has been delivered

Tracking # 777592866397

Ship date:  
**Mon, 10/31/2016**

**Suzan Lacey**  
B L COMPANIES  
Houston, TX 77070  
US

Delivery date:  
**Tue, 11/1/2016 3:23 pm**

**Floodplain Administrator**  
Hegins Township  
421 South Gap Street  
VALLEY VIEW, PA 17983  
US



Delivered

### Shipment Facts

Our records indicate that the following package has been delivered.

**Tracking number:** [777592866397](#)

**Status:** Delivered: 11/01/2016 3:23 PM  
Signed for By: Signature not required

**Signed for by:** Signature not required

**Delivery location:** VALLEY VIEW, PA

**Delivered to:** Residence

**Service type:** FedEx Priority Overnight

**Packaging type:** FedEx Envelope

**Number of pieces:** 1

**Weight:** 0.50 lb.

**Special handling/Services:** Deliver Weekday  
Residential Delivery

**Standard transit:** 11/1/2016 by 4:30 pm





FedEx® Tracking

**777592906980**

Ship date:

**Mon 10/31/2016**

Actual delivery:

**Tue 11/01/2016 11:36 am**

**B L COMPANIES**

Suzan Lacey  
Suite 220  
19500 State Hwy 249  
Houston, TX US 77070  
281 671-5139

**Delivered**

Signed for by: K.FERGUSON



**Pine Grove Township**

Floodplain Administrator  
175 Oak Grove Road  
PINE GROVE, PA US 17963  
717 943-1686

Travel History

Date/Time	Activity	Location
<b>11/01/2016 - Tuesday</b>		
11:36 am	Delivered	PINE GROVE, PA
9:01 am	On FedEx vehicle for delivery	READING, PA
8:32 am	At local FedEx facility	READING, PA
6:16 am	At destination sort facility	ALLENTOWN, PA
3:27 am	Departed FedEx location	MEMPHIS, TN
<b>10/31/2016 - Monday</b>		
11:37 pm	Arrived at FedEx location	MEMPHIS, TN
8:37 pm	Left FedEx origin facility	HOUSTON, TX
6:38 pm	Picked up	HOUSTON, TX
5:43 pm	Picked up	KINGWOOD, TX
7:51 am	Tendered at FedEx Office	
	Shipment information sent to FedEx	

Shipment Facts

<b>Tracking number</b>	777592906980	<b>Service</b>	FedEx Priority Overnight
<b>Weight</b>	0.5 lbs / 0.23 kgs	<b>Delivery attempts</b>	1
<b>Delivered To</b>	Receptionist/Front Desk	<b>Total pieces</b>	1
<b>Total shipment weight</b>	0.5 lbs / 0.23 kgs	<b>Terms</b>	Not Available
<b>Packaging</b>	FedEx Envelope	<b>Special handling section</b>	Deliver Weekday
<b>Standard transit</b>	11/01/2016 by 4:30 pm		



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**777593454631**

Ship date:

**Mon 10/31/2016**

Actual delivery:

**Tue 11/01/2016 12:56 pm**

**B L COMPANIES**

Suzan Lacey  
Suite 220  
19500 State Hwy 249  
Houston, TX US 77070  
281 671-5139

**Delivered**

*On FedEx vehicle for delivery  
Signature not required*

**Porter Township**

Floodplain Administrator  
309 West Wiconisco Street  
MUIR, PA US 17957  
717 943-1686

## Travel History

Date/Time	Activity	Location
<b>11/01/2016 - Tuesday</b>		
12:56 pm	Delivered	MUIR, PA
	Package delivered to recipient address - release authorized	
9:01 am	On FedEx vehicle for delivery	READING, PA
8:33 am	At local FedEx facility	READING, PA
6:16 am	At destination sort facility	ALLENTOWN, PA
3:27 am	Departed FedEx location	MEMPHIS, TN
<b>10/31/2016 - Monday</b>		
11:37 pm	Arrived at FedEx location	MEMPHIS, TN
8:37 pm	Left FedEx origin facility	HOUSTON, TX
6:38 pm	Picked up	HOUSTON, TX
5:43 pm	Picked up	KINGWOOD, TX
	Tendered at FedEx Office	
8:53 am	Shipment information sent to FedEx	

## Shipment Facts

<b>Tracking number</b>	777593454631	<b>Service</b>	FedEx Priority Overnight
<b>Weight</b>	0.5 lbs / 0.23 kgs	<b>Delivery attempts</b>	1
<b>Delivered To</b>	Residence	<b>Total pieces</b>	1
<b>Total shipment weight</b>	0.5 lbs / 0.23 kgs	<b>Terms</b>	Not Available
<b>Packaging</b>	FedEx Envelope	<b>Special handling section</b>	Deliver Weekday, Residential Delivery
<b>Standard transit</b>	11/01/2016 by 4:30 pm		



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**777593544655**

Ship date:

**Mon 10/31/2016****B L COMPANIES**

Suzan Lacey  
Suite 220  
19500 State Hwy 249  
Houston, TX US 77070  
281 671-5139

**Delivered**

*On FedEx vehicle for delivery  
Signature not required*

Actual delivery:

**Tue 11/01/2016 12:40 pm****Tremont Township**

Floodplain Administrator  
166 Molleystown Road  
PINE GROVE, PA US 17963  
717 943-1686

## Travel History

Date/Time	Activity	Location
- 11/01/2016 - Tuesday		
12:40 pm	Delivered	PINE GROVE, PA
	Package delivered to recipient address - release authorized	
9:01 am	On FedEx vehicle for delivery	READING, PA
8:38 am	At local FedEx facility	READING, PA
6:16 am	At destination sort facility	ALLENTOWN, PA
3:27 am	Departed FedEx location	MEMPHIS, TN
- 10/31/2016 - Monday		
11:37 pm	Arrived at FedEx location	MEMPHIS, TN
8:37 pm	Left FedEx origin facility	HOUSTON, TX
6:36 pm	Picked up	HOUSTON, TX
5:43 pm	Picked up	KINGWOOD, TX
9:02 am	Tendered at FedEx Office Shipment information sent to FedEx	

## Shipment Facts

<b>Tracking number</b>	777593544655	<b>Service</b>	FedEx Priority Overnight
<b>Weight</b>	0.5 lbs / 0.23 kgs	<b>Delivery attempts</b>	1
<b>Delivered To</b>	Residence	<b>Total pieces</b>	1
<b>Total shipment weight</b>	0.5 lbs / 0.23 kgs	<b>Terms</b>	Not Available
<b>Packaging</b>	FedEx Envelope	<b>Special handling section</b>	Deliver Weekday, Residential Delivery
<b>Standard transit</b>	11/01/2016 by 4:30 pm		



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