

SHELL PIPELINE COMPANY LP  
FALCON ETHANE PIPELINE SYSTEM  
FINDLAY AND NORTH FAYETTE TOWNSHIPS, ALLEGHENY COUNTY PENNSYLVANIA

# Joint Permit Application

September 2017



*Prepared for:*

**Shell Pipeline Company LP**

150 North Dairy Ashford  
Houston, TX 77079

*Submitted by:*

**AECOM**

Foster Plaza 6  
681 Andersen Drive, Suite 400  
Pittsburgh, PA 15220

---

## TABLE OF CONTENTS

<b>Checklist Item</b>	<b>Requirement</b>
General Information Form (GIF) and Permit Application .....	A
Application Fee .....	B
Acts 14/67/68/127 Notifications and Receipts .....	C
Cultural Resource Coordination .....	D
PASPGP-5 Reporting Criteria Checklist.....	E
Bog Turtle Habitat Screening .....	F
PNDI Search and Approval .....	G
Plans .....	H
Location Map.....	I
Project Narrative .....	J
Color Photographs of Proposed Impacts.....	K
Environmental Assessment.....	L
Erosion and Sediment Control Plan and Approval Letter .....	M
Hydrologic and Hydraulic Analysis .....	N
Stormwater Management Analysis and Consistency Letter .....	O
Floodplain Management Analysis and Consistency Letter .....	P
Risk Assessment.....	Q
Professional Engineer's Seal and Certification.....	R
Alternatives Analysis .....	S
Mitigation Plan.....	T
USACE Linear Project Upload Spreadsheet .....	U
Shell Pipeline HDD Procedure .....	V

## **Requirement A**

### General Information Form (GIF) and Permit Application



## GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

Related ID#s (If Known)		DEP USE ONLY
Client ID# _____	APS ID# _____	Date Received & General Notes
Site ID# _____	Auth ID# _____	
Facility ID# _____		

### CLIENT INFORMATION

DEP Client ID#	Client Type / Code LLP			
Organization Name or Registered Fictitious Name Shell Pipeline Company LP		Employer ID# (EIN) 52-2074528	Dun & Bradstreet ID#	
Individual Last Name Alley	First Name Pam	MI	Suffix	SSN
Additional Individual Last Name Van Stone	First Name Stephen	MI	Suffix	SSN
Mailing Address Line 1 150 North Dairy Ashford		Mailing Address Line 2		
Address Last Line – City Houston		State Texas	ZIP+4 77079	Country USA
Client Contact Last Name Wooten	First Name Robert	MI B	Suffix	
Client Contact Title Senior Staff Land Agent		Phone 1-832-762-2568	Ext	
Email Address Robert.Wooten@shell.com		FAX N/A		

### SITE INFORMATION

DEP Site ID#	Site Name Falcon Ethane Pipeline System				
EPA ID#	Estimated Number of Employees to be Present at Site				0
Description of Site Agricultural land, forest, developed land (residential, commercial, and municipal), streams, and wetlands.					
County Name Allegheny	Municipality Findlay	City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input checked="" type="checkbox"/>	State
County Name Allegheny	Municipality North Fayette	City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input checked="" type="checkbox"/>	State
Site Location Line 1 northern termni: 40.514094, -80.309685		Site Location Line 2 southern termni: 40.419067, -80.288216			
Site Location Last Line – City Clinton		State PA	ZIP+4 15026		
Detailed Written Directions to Site From I-376W take exit 53 toward US-22 and continue onto PA Turnpike 576E. Then take exit 2 for US 30 toward Imperia/Clinton. Turnright onto US-30 and then turn left onto Point Park Road. Travel approximately 0.7 mile and arrive at approximately the center of the alignment in Allegheny County.					
Site Contact Last Name Wooten	First Name Robert	MI B	Suffix		
Site Contact Title Senior Staff Land Agent		Site Contact Firm Shell Pipeline Company LP			
Mailing Address Line 1 150 North Dairy Ashford, #A2036G		Mailing Address Line 2			



<b>Mailing Address Last Line – City</b> Houston			<b>State</b> TX	<b>ZIP+4</b> 77079
<b>Phone</b> 1-832-762-2568	<b>Ext</b>	<b>FAX</b>	<b>Email Address</b> Robert.Wooten@shell.com	
<b>NAICS Codes</b> (Two- & Three-Digit Codes – List All That Apply)			<b>6-Digit Code</b> (Optional)	

**Client to Site Relationship**  
LESOP

### FACILITY INFORMATION

<b>Modification of Existing Facility</b>				<b>Yes</b>	<b>No</b>
1. Will this project modify an existing facility, system, or activity?				<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Will this project involve an addition to an existing facility, system, or activity?				<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>If "Yes", check all relevant facility types and provide DEP facility identification numbers below.</i>					
<b>Facility Type</b>	<b>DEP Fac ID#</b>	<b>Facility Type</b>	<b>DEP Fac ID#</b>		
<input type="checkbox"/> Air Emission Plant		<input type="checkbox"/> Industrial Minerals Mining Operation			
<input type="checkbox"/> Beneficial Use (water)		<input type="checkbox"/> Laboratory Location			
<input type="checkbox"/> Blasting Operation		<input type="checkbox"/> Land Recycling Cleanup Location			
<input type="checkbox"/> Captive Hazardous Waste Operation		<input type="checkbox"/> MineDrainageTrmt/LandRecyProjLocation			
<input type="checkbox"/> Coal Ash Beneficial Use Operation		<input type="checkbox"/> Municipal Waste Operation			
<input type="checkbox"/> Coal Mining Operation		<input type="checkbox"/> Oil & Gas Encroachment Location			
<input type="checkbox"/> Coal Pillar Location		<input type="checkbox"/> Oil & Gas Location			
<input type="checkbox"/> Commercial Hazardous Waste Operation		<input type="checkbox"/> Oil & Gas Water Poll Control Facility			
<input type="checkbox"/> Dam Location		<input type="checkbox"/> Public Water Supply System			
<input type="checkbox"/> Deep Mine Safety Operation -Anthracite		<input type="checkbox"/> Radiation Facility			
<input type="checkbox"/> Deep Mine Safety Operation -Bituminous		<input type="checkbox"/> Residual Waste Operation			
<input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals		<input type="checkbox"/> Storage Tank Location			
<input type="checkbox"/> Encroachment Location (water, wetland)		<input type="checkbox"/> Water Pollution Control Facility			
<input type="checkbox"/> Erosion & Sediment Control Facility		<input type="checkbox"/> Water Resource			
<input type="checkbox"/> Explosive Storage Location		<input checked="" type="checkbox"/> Other: Ethane Pipeline			
<b>Latitude/Longitude Point of Origin</b>	<b>Latitude</b>		<b>Longitude</b>		
	<b>Degrees</b>	<b>Minutes</b>	<b>Seconds</b>	<b>Degrees</b>	<b>Minutes</b>
GPS	40	28	20	80	17
<b>Horizontal Accuracy Measure</b>	Feet	+/-3	--or--	Meters	
<b>Horizontal Reference Datum Code</b>	<input type="checkbox"/> North American Datum of 1927 <input checked="" type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984				
<b>Horizontal Collection Method Code</b>	GIS DR				
<b>Reference Point Code</b>	Center				
<b>Altitude</b>	Feet	~1,080 to 1,318	--or--	Meters	
<b>Altitude Datum Name</b>	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input checked="" type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)				
<b>Altitude (Vertical) Location Datum Collection Method Code</b>	Topo				
<b>Geometric Type Code</b>	Point				
<b>Data Collection Date</b>	2015-2017				
<b>Source Map Scale Number</b>	1	Inch(es)	=	2,000	Feet
	--or--	Centimeter(s)	=		Meters

### PROJECT INFORMATION

<b>Project Name</b> Falcon Ethane Pipeline Project			
<b>Project Description</b> Installation of 11.6 miles of 12-inch ethane pipeline for the purpose of transporting raw materials (ethane) from the fractionation facility in Houston, PA to the Pennsylvania Petrochemical Plant in Monaca, Pennsylvania.			
<b>Project Consultant Last Name</b> Shearer	<b>First Name</b> Natalie	<b>MI</b> L	<b>Suffix</b>
<b>Project Consultant Title</b> Natural Resources Lead		<b>Consulting Firm</b> AECOM Technical Services, Inc.	
<b>Mailing Address Line 1</b> Foster Plaza 6		<b>Mailing Address Line 2</b> 681 Andersen Drive	

<b>Address Last Line – City</b> Pittsburgh		<b>State</b> PA	<b>ZIP+4</b> 15220
<b>Phone</b> 412-503-4595	<b>Ext</b>	<b>FAX</b>	<b>Email Address</b> natalie.shearer@aecom.com
<b>Time Schedules</b>	<b>Project Milestone (Optional)</b>		
Sept./October 2018	Start of Construction		
<b>Fall 2018</b>	<b>Start tree clearing</b>		
<b>Spring 2019-Fall 2019</b>	<b>Full construction</b>		
<b>Spring 2020</b>	<b>Comissioning</b>		
<b>Fall 2019-Spring 2020</b>	<b>Restoration</b>		

- Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department? ☒ Yes ☐ No
- Is your project funded by state or federal grants? ☐ Yes ☒ No  
 Note: If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.  
 Aspect of Project Related to Grant \_\_\_\_\_  
 Grant Source: \_\_\_\_\_  
 Grant Contact Person: \_\_\_\_\_  
 Grant Expiration Date: \_\_\_\_\_
- Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions) ☐ Yes ☒ No  
 Note: If "No" to Question 3, the application is not subject to the Land Use Policy.  
 If "Yes" to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the **Land Use Information** section.

**LAND USE INFORMATION**

**Note:** Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

- Is there an adopted county or multi-county comprehensive plan? ☒ Yes ☐ No
- Is there an adopted municipal or multi-municipal comprehensive plan? ☒ Yes ☐ No
- Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance? ☒ Yes ☐ No  
 Note: If the Applicant answers "No" to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below.  
 If the Applicant answers "Yes" to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.
- Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval? If zoning approval has been received, attach documentation. ☒ Yes ☐ No
- Have you attached Municipal and County Land Use Letters for the project? ☒ Yes ☐ No

## COORDINATION INFORMATION

**Note:** The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

**If the activity will be a mining project** (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

**If the activity will not be a mining project**, skip questions 1.0 through 2.5 and begin with question 3.0.

<b>1.0</b>	<b>Is this a coal mining project?</b> If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
<b>1.1</b>	<b>Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.2</b>	<b>Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.3</b>	<b>Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.4</b>	<b>For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.5</b>	<b>Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.6</b>	<b>Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.0</b>	<b>Is this a non-coal (industrial minerals) mining project?</b> If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
<b>2.1</b>	<b>Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.2</b>	<b>Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.3</b>	<b>Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.4</b>	<b>For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.5</b>	<b>Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

3.0	Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
3.1	Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.2	Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> .	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.3	Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
4.0	Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage. 4.0.1 Total Disturbed Acreage 110.12	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.0	Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.1	Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.2	Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.3	Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
6.0	Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
7.0	Will the project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
8.0	Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable. 8.0.1 Estimated Proposed Flow (gal/day)	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0	Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0.1	Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
10.0	Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year). 10.0.1 Gallons Per Year (residential septage) _____ 10.0.2 Dry Tons Per Year (biosolids) _____	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
11.0	Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam. 11.0.1 Dam Name _____	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

12.0	Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
12.0.1	Dam Name				
13.0	Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
13.0.1	Enter all types & amounts of emissions; separate each set with semicolons.				
14.0	Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
14.0.1	Number of Persons Served				
14.0.2	Number of Employee/Guests				
14.0.3	Number of Connections				
14.0.4	Sub-Fac: Distribution System	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.5	Sub-Fac: Water Treatment Plant	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.6	Sub-Fac: Source	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.7	Sub-Fac: Pump Station	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.8	Sub Fac: Transmission Main	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.9	Sub-Fac: Storage Facility	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
15.0	Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0	Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0.1	Supplier's Name				
16.0.2	Letter of Approval from Supplier is Attached	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
17.0	Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
17.0.1	Stream Name				
18.0	Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
18.0.1	Type & Amount				
19.0	Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0	Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. <b>Note:</b> Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
21.0	Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. <b>Note:</b> Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
21.0.1	Enter all substances & capacity of each; separate each set with semicolons.				

- 22.0 Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. ☐ Yes ☒ No  
22.0.1 Enter all substances & capacity of each; separate each set with semicolons.
- 23.0 Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons? If "Yes", list each Substance & its Capacity. Note: Applicant may need a Storage Tank Site Specific Installation Permit. ☐ Yes ☒ No  
23.0.1 Enter all substances & capacity of each; separate each set with semicolons.
- 24.0 Will the intended activity involve the use of a radiation source? ☐ Yes ☒ No

**CERTIFICATION**

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

Type or Print Name Stephen Van Stone

Stephen Van Stone  
Signature

Attorney-in-Fact

Title

11/9/17  
Date



**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
 and  
**DEPARTMENT OF ARMY CORPS OF ENGINEERS**  
 (Baltimore, Philadelphia, and Pittsburgh Districts)

**JOINT APPLICATION FOR**  
**PENNSYLVANIA CHAPTER 105 WATER OBSTRUCTION AND ENCROACHMENT PERMIT AND**  
**U.S. ARMY CORPS OF ENGINEERS SECTION 404 PERMIT**

**Before completing this form, please read the step-by-step instructions  
 and Section F Application Completeness Checklist provided with this Joint Permit package.**

**AGENCY USE ONLY**

Application ID# (Assigned by DEP) _____	RECEIVED DATE _____	CHECK NO. _____
Program Application No. _____	REQUIRED APP. FEE _____	AMOUNT \$ _____

**SECTION A. APPLICATION TYPE**

STANDARD ☒

SMALL PROJECTS ☐

**SECTION B. APPLICANT IDENTIFIER**

Applicant Name Shell Pipeline Company LP	Employer ID# (EIN) 52-2074528
Consulting Firm AECOM Technical Services, Inc.	Employer ID# (EIN) 95-2661922

**SECTION C. PROJECT LOCATION DATA AND STATUS**

Name of stream and/or body of water and Chapter 93 designation.  
See Table 3 in the Wetland and Watercourse Delineation Report in Requirement L.

Corps District where project will occur.  
☒ Pittsburgh (Ohio River Basin)    ☐ Baltimore (Susquehanna River Basin)    ☐ Philadelphia (Delaware River Basin)

Name of the U.S.G.S. 7 1/2 Minute Quadrangle Map where project is located: Aliquippa and Clinton

Indicate location of project: Latitude 40.472284; Longitude -80.292827

Project type, purpose and need: To construct approximately 11.6 miles of 12-inch ethane pipeline for the purpose of transporting raw materials (ethane) to the Pennsylvania Petrochemical Plant located in Monaca, Pennsylvania.

HAS ANY PORTION OF PROPOSED PROJECT BEEN AUTHORIZED? ☐ yes    ☒ no \_\_\_\_\_ date authorized

If yes, attach description of those portions of the project that have been authorized and identify dates of authorization.

**SECTION D. AQUATIC RESOURCE IMPACT TABLE**

HAS ALL INFORMATION INCLUDED ON THE IMPACT TABLE BEEN PROVIDED? ☒ yes    ☐ no

If NO, indicate the information not included and the reason. Also attach a completed [Aquatic Resource Impact Table \(3150-PM-BWEW0557\)](#) worksheet or equivalent.

- Project Information: \_\_\_\_\_
- Corps / 404: \_\_\_\_\_
- DEP / 105: \_\_\_\_\_

**SECTION E. COMPLIANCE REVIEW**

Yes No

☐ ☒ Is the applicant (owner and/or operator) currently in violation of any permits issued by the Department?  
 If yes, please provide:

1. Permit Number: \_\_\_\_\_
2. Nature of the violation (if any): \_\_\_\_\_
3. Status of violation (i.e., schedule for compliance, etc.): \_\_\_\_\_

**SECTION F. APPLICATION COMPLETENESS CHECKLIST**

Applicant must place an entry - Y = Yes, N = No, N/A = Not Applicable - in each left side column space. See Section 105.13 for additional details. If you are applying under the Small Projects Application format, place an entry in only those comments prefixed by an asterisk (\*).

REQUIREMENT	Applicant Entry	DEP Use Only
a. GIF and permit application properly signed, sealed and witnessed	*Y	
b. Application Fee & Worksheet enclosed (see Section G.)	*Y	
c. Copies and proof of receipt - Act 14 notification - Acts 67/68/127	*Y	
d. Cultural Resource Notice (Notice, return receipt and PHMC review letter, as appropriate)	*Y	
e. PASPGP-5 Reporting Criteria Checklist	*Y	
f. Bog Turtle Habitat Screening (copy of "No Effect" determination from the Army Corps of Engineers OR copy of documented clearance from the US Fish and Wildlife Service)	*N/A	
g. Pennsylvania Natural Diversity Inventory (signed PNDI Receipt showing Avoidance Measures or Potential Impacts and proof of delivery to the appropriate jurisdictional agency(ies) where further coordination is required, as appropriate)	*Y	
h. Plans (site plan including cross sections and profiles for Subsections 151, 191, 231, 261)	*Y	
i. Location map	Y	
j. Project description narrative including PNDI avoidance measures (if applicable) AND Aquatic Resource Impact Table	*Y *Y	
k. Color photographs with map showing location taken	*Y	
l. Environmental Assessment form	*Y	
m. Erosion and Sediment Control Plan and approval letter	Y-PLAN	
n. Hydrologic and hydraulic analysis	N/A	
o. Stormwater Management Analysis with consistency letter	N/A	
p. Floodplain Management Analysis with consistency letter	N	
q. Risk Assessment	N/A	
r. Professional engineer's seal and certification	Y	
s. Alternative analysis	Y	
t. Mitigation plan	Y	



**SECTION G. DETERMINATION OF APPLICATION FEES (DEP FEES ONLY)**

The fee required for a project authorized under this permit shall be consistent with 25 PA Code §105.13 (relating to regulated activities – information and fees). To determine the application fee, please complete the [Chapter 105 Fee\(s\) Calculation Worksheet \(3150-PM-BWEW0553\)](#). Please provide the completed worksheet and a check for the applicable fee(s) made payable to the "Commonwealth of Pennsylvania Clean Water Fund."

**SECTION H. ADJOINING PROPERTY OWNERS**

Please list the name and address of all property owners whose land adjoins the project property.

NAMEADDRESS

Please see attached table

**SECTION I. CERTIFICATION AND SIGNATURE (see Instructions for clarification of signature requirements)**

I certify under penalty of law that the information provided in this permit registration is true and correct to the best of my knowledge and information and that I possess the authority to undertake the proposed action. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (If any of the information and/or plans is found to be in error, falsified, and/or incomplete, this authorization/verification may be subject to modification, suspension, or revocation in accordance with applicable regulations.)

I certify that the project proposed in this application complies with and will be conducted in a manner that is consistent with the approved Coastal Zone Management program of the Commonwealth of Pennsylvania. (Only portions of Erie, Bucks, Philadelphia and Delaware Counties are in the Coastal Zone).

I grant permission to the agencies responsible for authorization of this work, or their duly authorized representative, to enter the project site for inspection purposes during working hours. I will abide by the conditions of the permit or license if issued and will not begin work without the appropriate authorization.



Signature of Applicant/Owner

11/9/17

Date

Stephen Van Stone, Attorney-in-Fact

Typed / Printed Name &amp; Title of Applicant/Owner



Signature of Witness

11-9-17

Robert B. Wooten Senior Staff Land Agent

Typed / Printed Name &amp; Title of Witness

SEAL

TABLE 1  
AQUATIC RESOURCE IMPACT TABLE - **REVISED NOVEMBER, 2017**  
FALCON ETHANE PIPELINE SYSTEM  
ALLEGHENY COUNTY, PENNSYLVANIA

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type <sup>1</sup>	Chapter 93 Designation <sup>2</sup>	Pipeline or Access Road Crossing Length (ft.) <sup>5</sup>	Stream Width	Length of Stream within Permanent Right-of-Way (ft.)	Length of Stream within Temporary Workspace (ft.)	DEP Impact		Corps Impact	Crossing Type <sup>5</sup>	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) <sup>4</sup>	Area within Temporary Workspace (ft²) <sup>4</sup>	Area within ROW (ft²) <sup>4</sup>				
1	40.418728	-80.287902	14.0	S-PA-170113-MRK-007	UNT to Little Raccoon Run	Floodway	Ephemeral	-	0.00	-	-	-	0.00	2878.11	NA	Temporary Workspace: The top of the floodway is located in TWS on the travel side of the ROW. Therefore vehicles will travel through this area during construction. An erosion control blanket will be placed over this area following construction to aid in slope stability and revegetation.	GP-5, GP-8	2 of 26	SS051
2	40.422950	-80.291682	14.3	W-PA-170113-MRK-005	-	Wetland	PEM	OTHER	0.00	-	-	-	32.45	186.38	218.84	Permanent Right-of-Way: this wetland is located within the PROW. A trench will be dug to place the pipe a minimum of four feet below the wetland. The topsoil will be segregated during construction. Following construction, segregated topsoil is replaced and the wetland is restored to original contours. The wetland will be maintained in perpetuity as an herbaceous wetland.	GP-5, GP-8	3 of 26	SS052
3	40.423978	-80.292646	14.3	W-PA-170113-MRK-004	-	Wetland	PEM	OTHER	79.58	-	-	-	5471.16	6461.42	11932.58	Pipeline (Partial HDD): a portion of this wetland is located along the pipeline route. In this area, A trench will be dug to place the pipe a minimum of four feet below the wetland. The topsoil will be segregated during construction. Following construction, segregated topsoil is replaced and the wetland is restored to original contours. The wetland will be maintained in perpetuity as an herbaceous wetland. The remaining portion of the wetland will be crossed via HDD.	GP-5, GP-8	3&4 of 26	SS052/SS053
	40.425108	-80.293148	14.4	S-PA-170113-MRK-003	UNT to Little Raccoon Run	Stream Floodway	Intermittent	WWF -	2.50 524.26	2.50 -	225.05 -	0.00 -	2.66 557.03	0.00 0.00	0.00	HDD: This stream and floodway will be crossed via HDD. The HDD will be 56 feet below the surface. There will be no above-ground disturbance.			
4	40.426753	-80.293878	14.6	S-PA-170113-MRK-002	UNT to Little Raccoon Run	Stream Floodway	Intermittent	WWF -	6.00 125.48	6.00 -	68.36 -	0.00 -	6.38 133.32	0.00 0.00	0.00	HDD: This stream and floodway will be crossed via HDD. The HDD will be 63 feet below the surface. There will be no above-ground disturbance.	GP-5	4 of 26	SS055
5	40.430024	-80.295073	14.8	W-PA-170113-MRK-001	-	Wetland	PEM	-	0.00	-	-	-	0.00	1.46	1.46	Temporary Workspace: A very small portion of this wetland is located in TWS. It is located within the travel area and may be crossed with vehicles during construction. If it needs to be crossed; a timber mat will be placed over it to allow construction equipment to cross. Otherwise if it is impacted, topsoil will be segregated and it will be returned to original contours following construction.	GP-5, GP-8	5 of 26	SS056
6	40.431040	-80.293621	14.9	S-PA-161205-WRA-008	UNT to Potato Garden Run	Stream Floodway	Intermittent	TSF -	4.00 151.54	4.00 -	77.66 -	69.14 -	310.64 7934.80	276.57 12185.24	587.21	Pipeline: The stream is located through the ROW. The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing.	GP-5, GP-8	5 of 26	SS057
7	40.431621	-80.293237	14.9	S-PA-170207-MRK-004	UNT to Potato Garden Run	Stream Floodway	Intermittent	TSF -	0.00 109.07	4.00 -	17.38 -	0.00 -	69.52 5184.81	0.00 445.34	69.52	Permanent Right-of-Way/Pipeline: The wetland and floodway are being directly crossed by the pipeline and the stream, floodway, and wetland are all located within the PROW. The stream will be crossed in the dry and the pipe will be placed a minimum of five feet below the stream bed. The pipe will be placed a minimum of four feet below the wetland. During construction the topsoil will be stockpiled. Following construction, the resources will be restored to their original contours. The wetland will be maintained as PEM.	GP-5, GP-8	5 of 26	SS058
	40.431777	-80.293135		W-PA-170207-MRK-003	-	Wetland	PEM	OTHER	16.12	-	-	-	443.54	0.00	443.54				
8	40.431938	-80.293041	15.0	W-PA-170207-MRK-002	-	Wetland	PEM	OTHER	0.00	-	-	-	144.20	1767.36	1911.56	Permanent Right-of-Way/TWS: portions of this wetland are located within the PROW. A trench will be dug to place the pipe a minimum of four feet below the wetland. The topsoil will be segregated during construction. Following construction, segregated topsoil is replaced and the wetland is returned to pre-construction conditions. Any area above the PROW will be maintained as PEM. 10-ft.-wide timber mats will be placed across the wetlands in the travel areas. Following construction, the mats will be removed.	GP-5, GP-8	5 of 26	SS058

TABLE 1  
AQUATIC RESOURCE IMPACT TABLE - REVISED NOVEMBER, 2017  
FALCON ETHANE PIPELINE SYSTEM  
ALLEGHENY COUNTY, PENNSYLVANIA

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type <sup>1</sup>	Chapter 93 Designation <sup>2</sup>	Pipeline or Access Road Crossing Length (ft.) <sup>5</sup>	Stream Width	Length of Stream within Permanent Right-of-Way (ft.)	Length of Stream within Temporary Workspace (ft.)	DEP Impact		Corps Impact	Crossing Type <sup>5</sup>	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) <sup>4</sup>	Area within Temporary Workspace (ft²) <sup>4</sup>	Area within ROW (ft²) <sup>4</sup>				
9	40.437228	-80.295134	15.4	S-PA-161205-WRA-006	UNT to Potato Garden Run	Stream	Ephemeral	WWF	0.00	5.00	57.16	0.00	285.79	0.00	285.79	Permanent Right-of-Way: the stream is located within the permanent ROW. Work will be conducted in the dry with a method (pump and dam/tume) determined by field conditions. The stream will be returned to the original contours following construction.	GP-5, GP-8	7 of 26	SS059
	40.437175	-80.295112				Floodway		-	127.20	-	-	-	6152.39	1424.74		Pipeline: The floodway will be crossed directly by the pipeline and is also located in both the travel lane and the permanent LOD. The area will be restored to its original contours following construction. An erosion control blanket will be placed over this area.			
10	40.437968	-80.296653	15.5	S-PA-161205-WRA-004	UNT to Potato Garden Run	Stream	Perennial	WWF	4.00	4.00	50.07	25.01	200.28	100.05	300.33	Pipeline: stream and floodway are being directly impacted by the pipeline. The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream/floodway to allow for construction equipment crossing.	GP-5, GP-8	7 of 26	SS060
						Floodway		-	263.49	-	-	-	5230.71	2703.93					
	40.438000	-80.296576		W-PA-161205-WRA-003	-	Wetland	PSS	OTHER	0.00	-	-	-	75.37	0.00	75.37	Permanent Right-of-Way: Shrubs will be cleared/grubbed and topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland.			
	40.438041	-80.296666		S-PA-161205-WRA-003	UNT to Potato Garden Run	Stream	Ephemeral	WWF	16.00	8.00	73.65	0.00	589.22	0.00	589.22	Pipeline: streams and floodways are being directly impacted by the pipeline. The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the S-PA-161205-WRA-003A stream/floodway to allow for construction equipment crossing.			
						Floodway		-	113.07	-	-	-	2828.20	1190.24					
	40.438107	-80.296725		S-PA-161205-WRA-003A	UNT to Potato Garden Run	Stream	Ephemeral	WWF	0.00	8.00	21.40	0.00	171.23	0.00	171.23	Permanent Right-of-Way: the floodway is located within the permanent ROW. This is in an upland area and once construction is completed, it will be restored to previous conditions and maintained in an herbaceous state.			
						Floodway		-	0.00	-	-	-	40.52	1061.04					
	40.438246	-80.296934		S-PA-170207-MRK-001	UNT to Potato Garden Run	Floodway	Intermittent	-	0.00	-	-	-	0.00	1269.05	NA	Temporary Workspace: the floodway is located within TWS. This is within an upland area. Once construction is complete, it will be restored to previous contours and vegetation will be allowed to return to pre-construction conditions.			
11	40.438754	-80.296156	15.6	W-PA-161205-WRA-001	-	Wetland	PEM	OTHER	14.96	-	-	-	766.78	405.24	1172.02	Pipeline: The pipeline crosses the wetland directly. A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	7 of 26	SS061
12	40.439281	-80.295447	15.7	S-PA-161205-WRA-001	UNT to Potato Garden Run	Stream	Ephemeral	WWF	2.00	2.00	51.18	25.80	102.37	51.59	153.96	Pipeline: stream and floodway are being directly impacted by the pipeline. The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the stream/floodway to allow for construction equipment crossing. The mats will be removed following construction.	GP-5, GP-8	7 of 26	SS061
						Floodway		-	103.73	-	-	-	5218.94	2802.11					
13	40.438793	-80.292918	15.7	S-PA-151117-NLS-004	UNT to Potato Garden Run	Floodway	Intermittent	-	80.55	-	-	-	0.00	1607.96	NA	HOU-TAR-20: The upland floodway will be impacted by the rock for the rock construction entrance. Once construction is complete, the rock will be removed and the floodway will be the same as it was prior to construction.	GP-8	7 of 26	SS062

TABLE 1  
AQUATIC RESOURCE IMPACT TABLE - **REVISED NOVEMBER, 2017**  
FALCON ETHANE PIPELINE SYSTEM  
ALLEGHENY COUNTY, PENNSYLVANIA

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type <sup>1</sup>	Chapter 93 Designation <sup>2</sup>	Pipeline or Access Road Crossing Length (ft.) <sup>5</sup>	Stream Width	Length of Stream within Permanent Right-of-Way (ft.)	Length of Stream within Temporary Workspace (ft.)	DEP Impact		Corps Impact	Crossing Type <sup>5</sup>	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) <sup>4</sup>	Area within Temporary Workspace (ft²) <sup>4</sup>	Area within ROW (ft²) <sup>4</sup>				
14	40.446071	-80.295066	16.2	S-PA-160315-NLS-001	UNT to Potato Garden Run	Floodway	Ephemeral	-	126.93	-	-	-	0.00	2518.90	NA	HOU-TAR-21: The upland floodway will be impacted by the rock placed to upgrade the existing access road. Once construction is complete, the rock will be removed and the floodway will be the same as it was prior to construction.	GP-8	9 of 26	SS063
15	40.446958	-80.292138	16.3	S-PA-151117-NLS-003	Potato Garden Run	Stream	Perennial	WWF	7.50	7.50	51.94	0.00	7.94	0.00	0.00	HDD: These resources will be crossed via HDD approximately 41 feet below the stream and 39 feet below the wetland. There will be no above-ground disturbance. <u>The wetland is greater than 10 acres.</u>	JPA	9 of 26	SS064
				W-PA-151117-NLS-001 Crossing #1	-	Wetland		PEM	OTHER	253.995542	-	-	-	269.87					
16	40.448986	-80.293224	16.3	W-PA-151117-NLS-001 Crossing #2	-	Wetland	PEM	OTHER	68.72	-	-	-	0.00	1397.53	1397.53	HOU-TAR-22: This is a temporary access road crossing. Ten-foot-wide timber mats will be installed and compost filter sock will be installed along the mats.	GP-8	9&10 of 26	SS065
17	40.463641	-80.289120	17.7	S-PA-160405-JLK-001	UNT to Potato Garden Run	Stream	Intermittent	WWF	1.50	1.50	41.18	0.00	1.59	0.00	0.00	HDD. The stream will be crossed via HDD. The HDD begins 74 feet away from the stream. The pipe depth ranges 11 to 13 feet deep. The stream will have no above-ground disturbance.	GP-5, GP-8	13 of 26	SS066
						Floodway		-	136.37	-	-	-	212.34	30.50	NA	Pipeline (Partial HDD): The HDD begins within the floodway.			
	40.463870	-80.289239	W-PA-160405-JLK-001	-	Wetland	PEM	OTHER	47.74	-	-	-	50.73	0.00	0.00	HDD: This complex is crossed via HDD at a depth ranging 11 to 13 feet. There will be no above-ground disturbance.				
40.463811	-80.289215	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
40.463864	-80.289237	S-PA-161206-WRA-001	UNT to Potato Garden Run	Floodway	Intermittent	-	31.01	-	-	-	-	-	32.94	0.00	-	-			
18	40.466653	-80.290370	17.9	S-PA-151202-MRK-003	UNT to Potato Garden Run	Stream	Perennial	WWF	4.50	4.50	69.88	0.00	4.78	0.00	0.00	HDD: This complex is crossed via HDD at a depth of 39 feet. There will be no above-ground disturbance.	GP-5	14 of 26	SS067
				Floodway	-	146.13		-	-	-	155.27	0.00							
				W-PA-151202-MRK-003	-	Wetland	PSS	OTHER	62.48	-	-	-	66.39	0.00					
19	40.468995	-80.291152	18.0	S-PA-151202-MRK-002	UNT to Potato Garden Run	Floodway	Intermittent	-	0.00	-	-	-	0.00	1057.10	NA	Temporary Workspace: both upland floodways are located within TWS in the travel lane of the ROW. Following construction this area will be restored to original contours. Portions of this area will be covered with an erosion control blanket.	GP-5, GP-8	14 of 26	SS068
				S-PA-151202-MRK-001		Floodway	Intermittent	-	0.00	-	-	-	0.00	4552.42	NA				
20	40.471279	-80.294268	18.3	W-PA-160401-MRK-008	-	Wetland	PEM	OTHER	30.15	-	-	-	1007.70	5202.93	6210.63	Pipeline: The pipeline crosses the wetland directly. A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	15 of 26	SS069
21	40.471662	-80.293848	18.3	W-PA-160401-MRK-007	-	Wetland	PEM	OTHER	0.00	-	-	-	1431.13	0.00	1431.13	Permanent Right-of-Way: Topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland.	GP-5, GP-8	15 of 26	SS069
22	40.472656	-80.292393	18.4	W-PA-160401-MRK-006	-	Wetland	PEM	OTHER	8.79	-	-	-	2044.77	0.00	2044.77	Permanent Right-of-Way: Topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland.	GP-5, GP-8	15 of 26	SS070
23	40.473412	-80.292626	18.5	W-PA-161213-MRK-003	-	Wetland	PEM	OTHER	0.00	-	-	-	0.86	0.00	0.86	Permanent Right-of-Way: Wetland topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland. The upland floodway will be returned to upland conditions following construction.	GP-5, GP-8	15 of 26	SS071
	40.473536	-80.292643		S-PA-161213-MRK-001	UNT to Potato Garden Run	Floodway	Intermittent	-	0.00	-	-	-	170.49	0.00	NA				
24	40.472937	-80.292463	18.5	W-PA-160401-MRK-005	-	Wetland	PSS	OTHER	0.00	-	-	-	0.00	19715.40	19715.40	Temporary Workspace: the shrubs will be cleared and topsoil will be segregated. Timber mats will be placed within the travel lane. Following construction, timber mats will be removed, the segregated topsoil will be returned, and the contours will be restored to original conditions. Since this is a TWS, shrubs will be allowed to grow back in this area.	GP-5, GP-8	15&16 of 26	SS072
	40.474585	-80.292346		S-PA-161220-MRK-001	UNT to Potato Garden Run	Floodway	Intermittent	-	28.78	-	-	-	6243.17	11973.74	NA	Permanent Right-of-Way: This is in an upland area and once construction is completed, it will be restored to previous conditions and maintained in an herbaceous state.			
25	40.475799	-80.291850	18.6	W-PA-161220-MRK-002	-	Wetland	PEM	OTHER	48.97	-	-	-	1764.00	2.02	1766.02	Pipeline: A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland.	GP-5, GP-8	16 of 26	SS073

TABLE 1  
AQUATIC RESOURCE IMPACT TABLE - **REVISED NOVEMBER, 2017**  
FALCON ETHANE PIPELINE SYSTEM  
ALLEGHENY COUNTY, PENNSYLVANIA

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type <sup>1</sup>	Chapter 93 Designation <sup>2</sup>	Pipeline or Access Road Crossing Length (ft.) <sup>5</sup>	Stream Width	Length of Stream within Permanent Right-of-Way (ft.)	Length of Stream within Temporary Workspace (ft.)	DEP Impact		Corps Impact	Crossing Type <sup>5</sup>	Permit Type	Plan View Page	Site Specific # (Req H)	
													Area within Permanent Right-of-Way (ft²) <sup>4</sup>	Area within Temporary Workspace (ft²) <sup>4</sup>	Area within ROW (ft²) <sup>4</sup>					
26	40.476167	-80.291463	18.7	W-PA-161220-MRK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	944.96	944.96	Temporary Workspace: The topsoil will be segregated during construction. A 10-foot-wide timber mat will be placed over the wetland in the travel lane to allow for construction equipment to cross the wetland. Following construction the timber mat will be removed, segregated topsoil will be returned, and the wetland will be returned to its original contours.	GP-5, GP-8	16 of 26	SS073	
27	40.479131	-80.293634	18.9	W-PA-170213-JLK-004	-	Wetland	PEM	OTHER	51.02	-	-	-	605.19	0.00	605.19	Pipeline: The pipeline crosses the wetland directly. A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	17 of 26	SS074	
	40.479230	-80.293765		S-PA-161123-WRA-006 Crossing #1	UNT to Potato Garden Run	Stream	Intermittent	WWF	0.00	6.00	123.04	98.62	738.24	591.70	1329.94	Permanent Right-of-Way/Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.				
						Floodway		-	236.56	-	-	-	11636.50	13275.38						
	40.479318	-80.293815		W-PA-170213-JLK-003	-	Wetland	PSS	OTHER	0.00	-	-	-	311.34	149.34	460.68	Permanent Right-of-Way: Shrubs will be cleared/grubbed and topsoil will be segregated during construction. Following construction the wetland will be returned to original contours and maintained as a PEM wetland.				
28	40.481121	-80.295916	19.1	S-PA-161123-WRA-006 Crossing #2	UNT to Potato Garden Run	Stream	Intermittent	WWF	6.00	6.00	66.28	11.23	397.66	67.37	465.03	Pipeline/Permanent ROW: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed. For the wetland, A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	17&18 of 26	SS075/SS076/SS077	
	Floodway	-				65.82		-	-	-	4182.17	1471.66								
	40.481328	-80.295883		S-PA-151111-MRK-003		Stream	Perennial	WWF	4.50	4.50	119.31	116.03	536.88	522.15	1059.04					
	Floodway	-				834.72		-	-	-	22174.58	22174.58								
	40.481375	-80.296061	S-PA-161123-WRA-004	Stream		Intermittent	WWF	0.00	4.00	2.19	143.89	8.74	575.55	584.29						
				Floodway			-	9.94	-	-	-	1460.66	5403.42							
	40.481977	-80.295781	19.2	W-PA-161122-WRA-002		-	Wetland	PEM	OTHER	84.76	-	-	-	4436.61	13.45					4450.07
	40.481856	-80.295869		S-PA-161122-WRA-004		UNT to Potato Garden Run	Stream	Ephemeral	WWF	0.00	2.00	13.15	55.40	26.29	110.81					137.10
		Floodway	-		0.00		-		-	-	644.38	6249.71								
29	40.483435	-80.296473	19.3	S-PA-161122-WRA-001	UNT to Potato Garden Run	Stream	Intermittent	WWF	5.00	5.00	58.52	32.56	292.62	162.78	455.40	Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	18 of 26	SS078	
						Floodway		-	124.64	-	-	-	6672.22	12438.09						



TABLE 1  
AQUATIC RESOURCE IMPACT TABLE - **REVISED NOVEMBER, 2017**  
FALCON ETHANE PIPELINE SYSTEM  
ALLEGHENY COUNTY, PENNSYLVANIA

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type <sup>1</sup>	Chapter 93 Designation <sup>2</sup>	Pipeline or Access Road Crossing Length (ft.) <sup>5</sup>	Stream Width	Length of Stream within Permanent Right-of-Way (ft.)	Length of Stream within Temporary Workspace (ft.)	DEP Impact		Corps Impact	Crossing Type <sup>5</sup>	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) <sup>4</sup>	Area within Temporary Workspace (ft²) <sup>4</sup>	Area within ROW (ft²) <sup>4</sup>				
30	40.484823	-80.303870	19.7	S-PA-160308-MRK-001	UNT to Potato Garden Run	Stream	Intermittent	WWF	0.00	2.50	8.86	31.39	22.15	78.47	100.62	Pipeline/Permanent ROW: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	18 of 26	SS079
						Floodway		-	101.51	-	-	-	4864.55	3072.06					
31	40.485044	-80.305855	19.8	S-PA-151112-MRK-003	UNT to Potato Garden Run	Stream	Perennial	WWF	7.00	7.00	90.96	43.84	636.71	306.91	943.62	Pipeline: The stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	18&20 of 26	SS080
						Floodway		-	140.98	-	-	-	7645.06	7006.96					
	40.485014	-80.306116	W-PA-160307-MRK-006	-	Wetland	PEM	OTHER	0.00	-	-	-	185.64	402.57	588.20	Permanent Right-of-Way: A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. During construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.				
32	40.485114	-80.307181	19.9	W-PA-160307-MRK-004	-	Wetland	PEM	OTHER	0.00	-	-	-	59.96	101.72	161.67	Permanent and Temporary ROW: A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. During construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.	GP-5, GP-8	20 of 26	SS081
				S-PA-151112-MRK-003	UNT to Potato Garden Run	Floodway	Perennial	-	0.00	-	-	-	292.63	2079.69	NA				
33	40.485210	-80.307571	20.0	S-PA-151112-MRK-002	UNT to Potato Garden Run	Stream	Perennial	WWF	4.50	4.50	133.65	33.75	601.41	151.88	753.29	Pipeline/PROW: For the streams/floodways: The stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed. A small portion of the wetland is located within the PROW. Topsoil will be segregated during construction. Following construction it will be replaced and original contours will be returned. The wetland will be maintained as PEM.	GP-5, GP-8	20 of 26	SS082
						Floodway		-	224.85	-	-	-	11222.54	4770.76					
	40.485300	-80.307881		W-PA-160307-MRK-003	-	Wetland	PEM	OTHER	0.00	-	-	-	252.49	0.00	252.49				
	40.485545	-80.308573		S-PA-151112-MRK-001A	UNT to Potato Garden Run	Stream	Ephemeral	WWF	2.00	2.00	64.72	32.67	129.44	65.34	194.78				
Floodway			-			132.55		-	-	-	6658.43	4216.16							

TABLE 1  
AQUATIC RESOURCE IMPACT TABLE - **REVISED NOVEMBER, 2017**  
FALCON ETHANE PIPELINE SYSTEM  
ALLEGHENY COUNTY, PENNSYLVANIA

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type <sup>1</sup>	Chapter 93 Designation <sup>2</sup>	Pipeline or Access Road Crossing Length (ft.) <sup>5</sup>	Stream Width	Length of Stream within Permanent Right-of-Way (ft.)	Length of Stream within Temporary Workspace (ft.)	DEP Impact		Corps Impact	Crossing Type <sup>5</sup>	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) <sup>4</sup>	Area within Temporary Workspace (ft²) <sup>4</sup>	Area within ROW (ft²) <sup>4</sup>				
34	40.490343	-80.315476	20.5	S-PA-151116-MRK-002	UNT to Potato Garden Run	Stream	Intermittent	WWF	5.50	5.50	92.92	51.41	511.04	282.76	793.80	Pipeline: The stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed.	GP-5, GP-8	21&22 of 26	SS083/SS084
	Floodway	-		162.46		-		-	-	7430.11	3172.60								
	40.490698	-80.315591		S-PA-151116-MRK-001	Perennial	WWF	6.50	6.50	51.55	54.95	335.05	357.15	692.20						
	Floodway	-		909.62		-	-	-	40153.38	7711.69									
	40.490606	-80.315710	W-PA-161020-MRK-001	-	Wetland	PEM	OTHER	0.00	-	-	-	0.00	531.38	531.38	Temporary Workspace: The topsoil will be segregated during construction. Following construction the segregated topsoil will be returned and the wetland will be returned to its original contours.				
40.492990	-80.314508	20.7	W-PA-160308-MRK-001	-	Wetland	PEM	OTHER	165.25	-	-	-	8740.92	0.00	8740.92	Pipeline: A trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland located within the travel lane will have a 10-ft-wide timber mat placed over it so that equipment can cross. Once construction is complete, the timber mat will be removed.				
35	40.503138	-80.314899	21.7	S-PA-151116-MRK-003	UNT to Raredon Run	Stream	Perennial	WWF	6.50	6.50	87.82	25.50	570.85	165.74	736.59	Pipeline/Permanent ROW: For the stream, the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contour. For the wetland, a trench will be dug in the wetland and the topsoil will be segregated. The pipeline will be placed a minimum of four feet deep. Following construction the segregated topsoil will be returned and the wetland will be restored to original contours and the area above the pipe and within the PROW will be maintained as an herbaceous wetland. Additionally, during construction the portion of the wetland and stream complex located within the travel lane will have 10-ft-wide timber mats placed over it so that equipment can cross. Once construction is complete, the timber mats will be removed.	GP-5, GP-8	24 of 26	SS085
	Floodway	-		152.14		-		-	-	7391.80	3813.84								
	40.503167	-80.315003	W-PA-151116-MRK-003	-	Wetland	PEM	OTHER	0.00	-	-	-	328.53	515.36	843.89					
36	40.506020	-80.315154	21.9	S-PA-151118-JLK-004	UNT to Raredon Run	Stream	Perennial	WWF	8.50	8.50	50.54	25.48	429.58	216.57	646.15	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	25 of 26	SS086
	Floodway	-	109.35	-		-		-	5483.01	2829.84									
37	40.509535	-80.312967	22.2	S-PA-151118-JLK-003	UNT to Raredon Run	Stream	Intermittent	WWF	3.35	3.35	50.96	50.75	170.72	170.00	340.72	Pipeline: the stream crossing will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the stream will be restored to its original contours. Additionally, a 10-ft-wide timber mat will be placed in the travel area across the stream to allow for construction equipment crossing. Following construction the timber mat will be removed.	GP-5, GP-8	25 of 26	SS087
	Floodway	-	105.34	-		-		-	5266.88	5242.17									

TABLE 1  
AQUATIC RESOURCE IMPACT TABLE - **REVISED NOVEMBER, 2017**  
FALCON ETHANE PIPELINE SYSTEM  
ALLEGHENY COUNTY, PENNSYLVANIA

Resource Crossing	Latitude	Longitude	Nearest Milepost	Feature ID (Unique Identifier)	Stream Name	Feature Type (Stream, Floodway, Wetland)	Aquatic Resource Type <sup>1</sup>	Chapter 93 Designation <sup>2</sup>	Pipeline or Access Road Crossing Length (ft.) <sup>5</sup>	Stream Width	Length of Stream within Permanent Right-of-Way (ft.)	Length of Stream within Temporary Workspace (ft.)	DEP Impact		Corps Impact	Crossing Type <sup>5</sup>	Permit Type	Plan View Page	Site Specific # (Req H)
													Area within Permanent Right-of-Way (ft²) <sup>4</sup>	Area within Temporary Workspace (ft²) <sup>4</sup>	Area within ROW (ft²) <sup>4</sup>				
38	40.512229	-80.311028	22.4	S-PA-161207-WRA-003A	UNT to Raredon Run	Stream	Intermittent	WWF	0.00	6.00	14.85	12.93	89.09	77.56	166.64	Permanent Right-of-Way: stream work will be conducted in the dry. Once construction is completed, the stream will be restored to its original contours.			
						Floodway		-	20.15	-	-	-	856.70	631.24					
	40.512243	-80.310929		S-PA-161207-WRA-003		Stream	Intermittent	WWF	6.00	6.00	56.14	24.83	336.84	148.99	485.82	Pipeline: the stream crossings will be conducted "in the dry" and the method used (pump and dam/flume) will be determined on site depending on the conditions at the time. The trench will be dug in the dry stream bed and placed a minimum of five feet below stream bed depth. Following construction, the streams will be restored to their original contours. Additionally, 10-ft-wide timber mats will be placed in the travel area across the streams to allow for construction equipment crossing. Following construction the timber mats will be removed.			
						Floodway		-	26.14	-	-	-	1500.47	2939.86					
	40.512302	-80.310889		S-PA-161207-WRA-002		Stream	Intermittent	WWF	6.00	6.00	52.71	12.44	316.29	74.65	390.93				
						Floodway		-	111.76	-	-	-	5575.27	4973.90					
Houston to Junction Pipeline, Allegheny County, Pennsylvania Totals						Stream			119.35	148.85	1943.07	977.61	7,901.98	4,554.58	12,433.22				
						Floodway			5646.65	0.00	0.00	0.00	191,323.69	161,174.05	NA				
						Wetland			959.69	0.00	0.00	0.00	28,527.79	37,798.52	65901.17				

**KEY**  
<sup>1</sup> Cowardin Vegetation Classes are defined by the United States Fish and Wildlife Service (USFWS) for the National Wetland Inventory. PEM -Palustrine Emergent, PSS - Palustrine Scrub Shrub, PFO - Palustrine Forested, PUB - Palustrine Unconsolidated Bottom, POW - Palustrine Open  
<sup>2</sup> Title 25, PA Code, Chapter 93 Designation WWF - Warm Water Fishes, TSF - Trout Stocked Fishes, OTHER - other wetland, not EV  
<sup>3</sup> Floodways overlap streams and wetlands but not other floodways. Floodways are an assumed 50' wide from tops of banks. These are only applicable to PADEP impacts.  
<sup>4</sup> The areas for wetlands and floodways are measured using Geographic Information Systems (G.I.S.) and the areas of streams are calculated by multiplying width X length.  
<sup>5</sup> TWS = Temporary Workspace; PROW = Permanent Rights-of-Way,  
**Note that although there is no permanent above-ground ROW for HDDs, the permanent impact area is captured within the "Area within Permanent Right-of-Way" column.**



## Shell Falcon Abutters - Allegheny County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Allegheny	1038-F-1	IMPERIAL BEAGLE CLUB	694 BEAGLE CLUB RD	MCDONALD	PA	15057
Allegheny	1038-L-3	LUCCHINO GEORGE M & ANNA K	399 BEAGLE CLUB RD	MCDONALD	PA	15057
Allegheny	1040-J-1	NOVELLI MATTHEW J & CAROLINE H	515 SEABRIGHT RD	MCDONALD	PA	15057
Allegheny	1043-N-1	IMPERIAL LAND CORPORATION	ROBINSON RD	IMPERIAL		15126
Allegheny	1173-F-251	CINDRICH DEVELOPMENT COMPANY	BOGGS RD	IMPERIAL	PA	15126
Allegheny	1173-K-1	CINDRICH DEVELOPMENT COMPANY	OLD STEUBENVILLE PIKE	MCDONALD	PA	15057
Allegheny	1173-R-1	BATEMAN THOMAS M	8329 STEUBENVILLE PIKE	MCDONALD	PA	15057
Allegheny	1173-R-3	KISOW WILBERT C JR & DARLENE	8331 STEUBENVILLE PIKE	MCDONALD	PA	15057
Allegheny	1173-S-1	GEORGE DANNY & ROSEMARIE	107 -109 GEORGES LN	OAKDALE	PA	15071
Allegheny	1174-K-190	DARLING INTERNATIONAL INC	BOGGS RD	IMPERIAL		15126
Allegheny	1174-N-35	INDUSTRIAL WASTE INC	BOGGS RD	IMPERIAL		15126
Allegheny	1174-R-233	IMPERIAL LAND CORPORATION	11 BOGGS RD	IMPERIAL	PA	15126
Allegheny	1175-D-35	IMPERIAL LAND CORPORATION	11 BOGGS RD	IMPERIAL	PA	15126
Allegheny	1176-D-1	FINDLAY TOWNSHIP MUNICIPAL	BURGETTSTOWN RD	IMPERIAL	PA	15126
Allegheny	1176-L-105	RD SOLOMON LLC	3385 BURGETTSTOWN RD	IMPERIAL	PA	15126
Allegheny	1176-L-56	RD SOLOMON LLC	3386 BURGETTSTOWN RD	IMPERIAL	PA	15126
Allegheny	1176-L-56-T1	AT& T WIRELESS	3410 BURGETTSTOWN RD	IMPERIAL	PA	15126
Allegheny	1177-G-215	CERCIELLO BARTHOLOMEW	165 POINT PARK RD	IMPERIAL	PA	15126
Allegheny	1177-G-225	CERCIELLO BARTHOLOMEW	165 POINT PARK RD	IMPERIAL	PA	15126
Allegheny	1177-K-75	SPRAY DONALD L	POINT PARK RD	IMPERIAL	PA	15126
Allegheny	1177-M-280	ALOE BROTHERS LLC	BURGETTSTOWN RD	IMPERIAL	PA	15126
Allegheny	1178-A-29	MARONDA FOUNDATION	152 YOUTHTOWNE DR	IMPERIAL	PA	15126
Allegheny	1178-C-10	NICOLETTI CAROL M & CHIRSTOPHER CAPT	CLINTON RD	CLINTON	PA	15026
Allegheny	1178-H-345	NICOLETTI CAROL MAZZARO, CAPTLINE CH	1056 -1058 US ROUTE 30	IMPERIAL	PA	15126
Allegheny	1178-H-50	NICOLETTI CAROL MAZZARO	US ROUTE 30	IMPERIAL	PA	15126
Allegheny	1178-J-275	NOVAK EDWARD JR	3662 WASHINGTON RD	IMPERIAL	PA	15126
Allegheny	1179-E-5	TIMON JAMES	3704 WASHINGTON RD	IMPERIAL	PA	15126
Allegheny	1179-E-97	CLINTON U P CHURCH	25 WILSON RD	CLINTON	PA	15026
Allegheny	1179-E-99	CLINTON U P CHURCH	25 WILSON RD	CLINTON	PA	15026
Allegheny	1179-G-335	FINDLAY TOWNSHIP	1355 US ROUTE 30	CLINTON		15026
Allegheny	1179-R-270	SPRAY DONALD	US ROUTE 30	IMPERIAL	PA	15126
Allegheny	1314-S-35	WHITTEN EDITH H	3447 WASHINGTON RD	IMPERIAL	PA	15126

## Shell Falcon Abutters - Allegheny County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Allegheny	1315-F-130	IMPERIAL LAND CORPORATION	CLINTON RD	CLINTON	PA	15026
Allegheny	1316-M-10	EBW REALTY ASSOCIATES LP	135 SOLAR DR	IMPERIAL	PA	15126
Allegheny	1316-R-10	OK PITTS WAREHOUSE LIMITED PARTNERSH	120 SOLAR DR	IMPERIAL	PA	15126
Allegheny	1318-C-32	JOHNSTON LORI HINEY & DAVID	3671 POTATO GARDEN RUN	IMPERIAL	PA	15126
Allegheny	1318-C-40	HINEY GAIL D	POTATO GARDEN RUN RD	IMPERIAL	PA	15126
Allegheny	1318-D-201	KUZIO ZACHARY A & SARAH M	3450 WASHINGTON RD	CLINTON	PA	15026
Allegheny	1318-G-210	BECK THOMAS W & RUTH M	3421 WASHINGTON RD	IMPERIAL	PA	15126
Allegheny	1318-H-61	MAZZARO PAULINE & (IRREVOCABLE TRUST	POINT PARK RD	IMPERIAL	PA	15126
Allegheny	1318-H-75	POINT PARK ROD & GUN CLUB	POTATO GARDEN RUN RD	IMPERIAL		15126
Allegheny	1319-A-1	BOWERS MATTHEW S & TARA L	22 TROTTER LN	CLINTON	PA	15026
Allegheny	1319-J-235	PAPE HERMAN L LAND TRUST	3675 POTATO GARDEN RUN	IMPERIAL	PA	
Allegheny	1320-A-147	CARR JOHN D & EDIE L	1053 MOORE LN	IMPERIAL	PA	15126
Allegheny	1320-A-89	BUFFINGTON ROBERT JAMES & PATRICIA A	1060 MOORE LN	IMPERIAL	PA	15126
Allegheny	1320-F-147	WILSON IRA W & PEGGY K	175 MOODY RD	IMPERIAL	PA	15126
Allegheny	1320-F-153	GEIER WILLIAM F & RITA M	181 MOODY RD	IMPERIAL	PA	15126
Allegheny	1320-F-165	TRAPUZZANO ROBERT AARON & SUSAN R	1001 MOORE LN	CLINTON	PA	15026
Allegheny	1320-F-309	MARONDA FOUNDATION	202 MOODY RD	CLINTON	PA	15026
Allegheny	1320-K-350	MARONDA HOMES INC	STALLION RD	CLINTON	PA	15026
Allegheny	1320-N-10	MARONDA HOMES INC	HORSE SHOE DR	CLINTON	PA	15026
Allegheny	1320-N-50	MARONDA HOMES INC	STALLION RD	CLINTON	PA	15026
Allegheny	1320-P-118	ROSCART CHARLES W & MARGARET L	51 MOORE RD	CLINTON	PA	15026
Allegheny	1320-P-130	CHURCH OF JESUS CHRIST	57 MOORE RD	CLINTON	PA	15026
Allegheny	1320-P-148	TARBUK TIMOTHY & REBECCA	63 MOORE RD	CLINTON	PA	15026
Allegheny	1320-P-236	TARBUK TIMOTHY & REBECCA	MOORE RD	CLINTON	PA	15026
Allegheny	1321-N-160	NOYES DANIEL C JR & BETTY JEAN	1487 US ROUTE 30	IMPERIAL	PA	15126
Allegheny	1321-R-389	MARONDA FOUNDATION	1434 US ROUTE 30	IMPERIAL	PA	15126
Allegheny	1322-M-276	HTM LEGACY LLC	CAMP MEETING RD	CLINTON	PA	15026
Allegheny	1322-M-308	COUNTY OF ALLEGHENY	57 CAMP MEETING RD	CLINTON	PA	15026
Allegheny	1323-R-36	SCHEERS MATTHEW P, SCHEERS PAUL M	295 CAMP MEETING RD	CLINTON	PA	15026
Allegheny	1323-R-65	SCHEERS MATTHEW P, SCHEERS PAUL M	295 CAMP MEETING RD	CLINTON	PA	15026
Allegheny	1468-D-162	KRAMER BRENT D & ELIZABETH M	3860 POTATO GARDEN RUN	IMPERIAL	PA	15126
Allegheny	1468-G-34	FINDLAY TOWNSHIP MUNICIPAL AUTHORIT	190 STROUSS DR	IMPERIAL	PA	15126

## Shell Falcon Abutters - Allegheny County

County	Parcel ID	Landowner Name	Address	City	State	Zip
Allegheny	1470-B-101	STICKLEY JARROD M & KELLY	4220 CORK BOCKTOWN RD	CLINTON	PA	15026
Allegheny	1470-C-25	CAIN KAREN LEE MOWRY, MOWRY SHIELDS	FERGUSON RD	CLINTON	PA	15026
Allegheny	1470-G-320	HEIDLER TOD	235 FERGUSON RD	CLINTON	PA	15026
Allegheny	1470-G-379	SHAW ANTHONY D	217 FERGUSON RD	CLINTON	PA	15026
Allegheny	1470-H-231	HOLDER JOHN C JR	273 FERGUSON RD	CLINTON	PA	15026
Allegheny	1470-R-105	COMBS W DELBERT & DELORIS M REVOCAB	40 COMBS RD	CLINTON	PA	15026
Allegheny	1471-R-342	SHIMER RONALD D & DARLENE ANN	4254 CORK BOCKTOWN RD	CLINTON	PA	15026
Allegheny	696-D-396	County of Allegheny	Beaver Grade Road	Coraopolis	PA	15108

## **Requirement B**

Application Fee

**PART ONE: WATER OBSTRUCTIONS AND ENCROACHMENTS****SECTION A. APPLICATION FEES**☒ **WATER OBSTRUCTION AND ENCROACHMENT PERMIT** (Joint Permit Application)

Some activities or structures within a project may also qualify for an accumulation of General Permit fees, please mark the box above indicating an Individual Water Obstruction and Encroachment Permit AND the corresponding fee(s) in the General Permit section below those. Activities or structures not qualifying for a General Permit fee must include a disturbance fee.

<input checked="" type="checkbox"/> Administrative Filing Fee <sup>1</sup> .....		\$ 1,750	+	
<input type="checkbox"/> Temporary Disturbance (\$400/0.1ac) .....	0.0 acres x \$4,000 =	\$ 0	+	
<input checked="" type="checkbox"/> Permanent Disturbance (\$800/0.1ac) .....	0.1 acres x \$8,000 =	\$ 800		= \$ 800
<b>WO&amp;E FEE subtotal (a)</b>				<b>\$ 2,550</b>

☒ **GENERAL PERMIT(S)** (select activity/structure(s) below, see page 4 for “#” explanation)

Some activities or structures within a project requiring an Individual Water Obstruction and Encroachment Permit may qualify for an accumulation of General Permit fees, please mark the corresponding fee(s) below but not the box above indicating a General Permit.

<input type="checkbox"/> GP-1 Fish Habitat Enhancement Structures .....		\$ 50	= \$	
<input type="checkbox"/> GP-2 Small Docks and Boat Launching Ramps .....	(#) X	\$ 175	= \$	
<input type="checkbox"/> GP-3 Bank Rehabilitation, Bank Protection and Gravel Bar Removal .....	(#) X	\$ 250	= \$	
<input type="checkbox"/> GP-4 Intake and Outfall Structures .....	(#) X	\$ 200	= \$	
<input checked="" type="checkbox"/> GP-5 Utility Line Stream Crossings <sup>2</sup> .....	1 (#) X 34 (#) X	\$ 250	= \$	8,500
<input type="checkbox"/> GP-6 Agricultural Crossings and Ramps .....	(#) X	\$ 50	= \$	
<input type="checkbox"/> GP-7 Minor Road Crossings <sup>2</sup> .....	(#) X	\$ 350	= \$	
<input checked="" type="checkbox"/> GP-8 Temporary Road Crossings <sup>2</sup> .....	35 (#) X	\$ 175	= \$	6,125
<input type="checkbox"/> GP-9 Agricultural Activities .....		\$ 50	= \$	
<input type="checkbox"/> GP-10 Abandoned Mine Reclamation .....		\$ 500	= \$	
<input type="checkbox"/> GP-11 Maintenance, Testing, Repair, Rehabilitation, or Replacement of Water Obstructions and Encroachments <sup>1</sup> .....		\$ 750	+	
<input type="checkbox"/> Temporary Disturbance (\$400/0.1ac) .....	acres x \$4,000 =	\$	+	
<input type="checkbox"/> Permanent Disturbance (\$800/0.1ac) .....	acres x \$8,000 =	\$	= \$	
<input type="checkbox"/> GP-15 Private Residential Construction in Wetlands <sup>1</sup> .....		\$ 750	+	
<input type="checkbox"/> Temporary Disturbance (\$400/0.1ac) .....	acres x \$4,000 =	\$	+	
<input type="checkbox"/> Permanent Disturbance (\$800/0.1ac) .....	acres x \$8,000 =	\$	= \$	
<b>GP(s) FEE subtotal (b)</b>				<b>\$ 14,625</b>

**PART ONE: SECTION A. APPLICATION FEE(S) subtotal (a+b=c)** **\$ 17,175**

**SECTION B. OTHER FEES**

<input type="checkbox"/> Environmental Assessment for Waived Activities (§105.13(c)(2)(iv)) .....		\$ 500		\$ 0
<input type="checkbox"/> Amendment to Water Obstruction and Encroachment Permit				
<input type="checkbox"/> Major Amendment <sup>1</sup> .....		\$ 500	+	
<input type="checkbox"/> Temporary Disturbance .....	acres x \$4,000 =	\$	+	\$ 0
<input type="checkbox"/> Permanent Disturbance .....	acres x \$8,000 =	\$	= \$	0
<input type="checkbox"/> Minor Amendment .....		\$ 250		\$ 0

Transfer of Water Obstruction and Encroachment Permit *does not require submission of this form;*  
see [Application for Transfer of Permit / Submerged Lands License Agreement \(3150-PM-BWEW-0016\)](#)

**PART ONE: SECTION B. OTHER FEE(S) subtotal (d)** **\$ 0**

**PART ONE: FEE(S) TOTAL (c+d=e)** **\$ 16,448**

**DEP USE ONLY**

FEE TOTAL: \_\_\_\_\_  
Correct Amount: \_\_\_\_\_  
Check Amount: \_\_\_\_\_

Permit / Authorization Number (s): \_\_\_\_\_  
Check #: \_\_\_\_\_  
Payable to: \_\_\_\_\_

**PART TWO: DAM SAFETY (USE ONE FEE SHEET PER DAM)****SECTION A. APPLICATION FEES**☐ **DAM PERMIT APPLICATION – NEW DAM**

<input type="checkbox"/> Size A	<input type="checkbox"/> Hazard 1 \$26,500	<input type="checkbox"/> Hazard 2 \$26,500	<input type="checkbox"/> Hazard 3 \$25,500	<input type="checkbox"/> Hazard 4 \$23,500	\$ _____
<input type="checkbox"/> Size B	<input type="checkbox"/> Hazard 1 \$19,000	<input type="checkbox"/> Hazard 2 \$19,000	<input type="checkbox"/> Hazard 3 \$18,500	<input type="checkbox"/> Hazard 4 \$17,000	\$ _____
<input type="checkbox"/> Size C	<input type="checkbox"/> Hazard 1 \$10,500	<input type="checkbox"/> Hazard 2 \$10,500	<input type="checkbox"/> Hazard 3 \$10,000	<input type="checkbox"/> Hazard 4 \$ 8,000	\$ _____

☐ **STAGED CONSTRUCTION**

NO. OF STAGES BEYOND INITIAL STAGE \_\_\_\_\_ X APPLICATION FEE \_\_\_\_\_ X 0.90 (90%) \$ \_\_\_\_\_

☐ **DAM PERMIT APPLICATION – MODIFICATION OF DAM**

<input type="checkbox"/> Size A	<input type="checkbox"/> Hazard 1 \$18,500	<input type="checkbox"/> Hazard 2 \$18,500	<input type="checkbox"/> Hazard 3 \$18,500	<input type="checkbox"/> Hazard 4 \$18,000	\$ _____
<input type="checkbox"/> Size B	<input type="checkbox"/> Hazard 1 \$12,000	<input type="checkbox"/> Hazard 2 \$12,000	<input type="checkbox"/> Hazard 3 \$12,000	<input type="checkbox"/> Hazard 4 \$11,500	\$ _____
<input type="checkbox"/> Size C	<input type="checkbox"/> Hazard 1 \$ 7,500	<input type="checkbox"/> Hazard 2 \$ 7,500	<input type="checkbox"/> Hazard 3 \$ 7,500	<input type="checkbox"/> Hazard 4 \$ 7,500	\$ _____

☐ **STAGED CONSTRUCTION**

NO. OF STAGES BEYOND INITIAL STAGE \_\_\_\_\_ X APPLICATION FEE \_\_\_\_\_ X 0.85 (85%) \$ \_\_\_\_\_

☐ **DAM PERMIT APPLICATION – OPERATION & MAINTANANCE OF EXISTING DAM**

<input type="checkbox"/> Size A	<input type="checkbox"/> Hazard 1 \$12,500	<input type="checkbox"/> Hazard 2 \$12,500	<input type="checkbox"/> Hazard 3 \$12,000	<input type="checkbox"/> Hazard 4 \$10,000	\$ _____
<input type="checkbox"/> Size B	<input type="checkbox"/> Hazard 1 \$10,000	<input type="checkbox"/> Hazard 2 \$10,000	<input type="checkbox"/> Hazard 3 \$ 9,500	<input type="checkbox"/> Hazard 4 \$ 8,500	\$ _____
<input type="checkbox"/> Size C	<input type="checkbox"/> Hazard 1 \$ 7,000	<input type="checkbox"/> Hazard 2 \$ 7,000	<input type="checkbox"/> Hazard 3 \$ 6,500	<input type="checkbox"/> Hazard 4 \$ 6,000	\$ _____

**PART TWO: SECTION A. APPLICATION FEE(S) subtotal (a)** \$ 0**SECTION B. OTHER FEES**☐ Letter of Amendment or Authorization☐ Major (≥\$250,000)

<input type="checkbox"/> Size A \$14,700	<input type="checkbox"/> Size B \$ 8,700	<input type="checkbox"/> Size C \$ 4,400	\$ _____
--	--	--	----------

☐ Minor (<\$250,000)

<input type="checkbox"/> Size A \$ 1,300	<input type="checkbox"/> Size B \$ 1,000	<input type="checkbox"/> Size C \$ 650	\$ _____
--	--	--	----------

☐ Major Dam Design Revision

<input type="checkbox"/> Size A \$ 4,700	<input type="checkbox"/> Size B \$ 3,200	<input type="checkbox"/> Size C \$ 1,700	\$ _____
--	--	--	----------

☐ Environmental Assessment☐ Environmental Assessment for Dam Removal (§105.12(a)(16)) \$ 500 \$ \_\_\_\_\_☐ Non-Jurisdictional Dams \$ 900 \$ \_\_\_\_\_☐ Letter of Amendment or Authorization

<input type="checkbox"/> Size A \$ 1,400	<input type="checkbox"/> Size B \$ 1,000	<input type="checkbox"/> Size C \$ 900	\$ _____
--	--	--	----------

☐ Transfer of Dam Permit

<input type="checkbox"/> No Proof of Financial Responsibility \$ 550	<input type="checkbox"/> Proof of Financial Responsibility \$300	\$ _____
--	--	----------

☐ Annual Registration

<input type="checkbox"/> Hazard 1 \$ 1,500	<input type="checkbox"/> Hazard 2 \$ 1,500	<input type="checkbox"/> Hazard 3 \$ 800	\$ _____
--	--	--	----------

**PART TWO: SECTION B. OTHER FEE(S) subtotal (b)** \$ 0**PART TWO: FEE(S) TOTAL (a+b=c)** \$ 0**DEP USE ONLY**

FEE TOTAL: _____	Permit / Authorization Number (s): _____
Correct Amount: _____	Check #: _____
Check amount: _____	Payable to: _____

## **Requirement C**

Acts 14/67/68/127 Notifications and Receipts

**From:** [TrackingUpdates@fedex.com](mailto:TrackingUpdates@fedex.com)  
**To:** [Shearer, Natalie](#)  
**Subject:** FedEx Shipment 770223439117 Delivered  
**Date:** Wednesday, September 13, 2017 10:35:11 AM

FedEx®

## Your package has been delivered

Tracking # 770223439117

Ship date:

**Tue, 9/12/2017**

**Natalie L. Shearer**

AECOM

Pittsburgh, PA 15220

US

Delivery date:

**Wed, 9/13/2017 10:33 am**

**Chief Executive, Rich Fitzgerald**


Allegheny County Government

436 Grant Street #101

Allegheny County Courthouse

PITTSBURGH, PA 15219

US

 **Delivered**

### Shipment Facts

Our records indicate that the following package has been delivered.

**Tracking number:** [770223439117](#)

**Status:** Delivered: 09/13/2017 10:33 AM  
Signed for By: J.KALSO

**Invoice number:** 10.5

**Purchase order number:** 60536988

**Reference:** 04104183.1

**Signed for by:** J.KALSO

**Delivery location:** PITTSBURGH, PA

**Delivered to:** Receptionist/Front Desk

**Service type:** FedEx Priority Overnight

**Packaging type:** FedEx Box

**Number of pieces:** 1

**Weight:** 2.00 lb.

**Special handling/Services:** Deliver Weekday

**Standard transit:** 9/13/2017 by 10:30 am

☐ Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 9:35 AM CDT on 09/13/2017.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

© 2017 Federal Express Corporation. The content of this message is protected by copyright and trademark laws under U.S. and international law. Review our [privacy policy](#). All rights reserved.

Thank you for your business.



September 11, 2017

Allegheny County Government  
Chief Executive, Rich Fitzgerald  
Allegheny County Courthouse  
436 Grant Street #101  
Pittsburgh, PA 15219

**Via FedEx: 7702 2343 9117**

Dear County Commissioners:

Shell Pipeline Company LP (SPLC) retained AECOM Technical Services, Inc. (AECOM) to provide design and permitting services. This notice is to inform you of SPLC's intent to construct an ethane pipeline under a Pennsylvania Erosion and Sediment Control General Permit (ESCGP-2) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities and a Chapter 105 Water Obstruction and Encroachment Joint Permit coverage from the Pennsylvania Department of Environmental Protection (PADEP) for the following project:

Project Name:	Falcon Ethane Pipeline System
Project Description:	Installation of approximately 8.8 miles of 12-inch ethane pipeline ethane pipeline for the purpose of delivering product to the Shell Pennsylvania Petrochemical Facility in Monaca, Pennsylvania.
Applicant Name:	Shell Pipeline Company LP
Applicant Contact:	Robert Wooten 150 North Dairy Ashford #A2036G Houston Texas, 77079 Phone: (832) 762-2568
Site Location:	See attached Location Map.
Municipality/County:	Findlay and North Fayette Townships, Allegheny County, PA

Enclosed is a Location Map, a copy of the General Information Form (GIF), a copy of the ESCGP-2 Notice of Intent (NOI) Form, and the Erosion & Sediment Control (E&SC) plan drawings completed by AECOM on behalf of the applicant. If desired, AECOM will also furnish the E&SC Narrative and detail drawings. DEP invites you to review the attached form and to comment on the accuracy of answers provided with regard to land use aspects of this project. Please be specific to DEP and focus on the relationship to local ordinances. If you wish to submit comments to DEP, you must respond within 30 days to the DEP regional office referenced in this letter. If you do not submit comments by the end of the comment period, DEP will assume that there are no substantive conflicts and proceed with the normal application review process.

This letter is intended to satisfy the requirements of Pennsylvania Acts 14, 67, 68, and 127 and the Pennsylvania Municipalities Planning Code. Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PADEP permit must give written notice to the municipality(ies) and the county(ies) in which the permitted activity is located. The written notices shall be received by the municipality(ies) and county(ies) at least 30 days before the PADEP may issue or deny the permit.

Acts 67 and 68, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code.

Please submit any comments concerning this project within 30 days from the date of receipt of this letter to the PADEP, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

For more information about this land use review process, please contact me at 412-503-4595 or visit [www.depweb.state.pa.us](http://www.depweb.state.pa.us) (Keyword: Land Use Reviews).

Sincerely,

A handwritten signature in blue ink, appearing to read "Natalie L. Shearer".

Natalie L. Shearer, M.S., QEP  
Natural Resources Lead  
AECOM

Enclosures:     Location Map, General Information Form (GIF), ESCGP-2 NOI Form, and E&SC plan drawings

**From:** [TrackingUpdates@fedex.com](mailto:TrackingUpdates@fedex.com)  
**To:** [Shearer, Natalie](#)  
**Subject:** FedEx Shipment 770223472815 Delivered  
**Date:** Wednesday, September 13, 2017 11:09:53 AM

FedEx®



## Your package has been delivered

Tracking # 770223472815

Ship date:

**Tue, 9/12/2017**

**Natalie L. Shearer**

AECOM  
Pittsburgh, PA 15220  
US

Delivery date:

**Wed, 9/13/2017 11:06 am**

**Chris Caruso, Township Manager**

Findlay Township  
1271 Route 30, Findlay  
Township  
CLINTON, PA 15026  
US

  
**Delivered**

### Shipment Facts

Our records indicate that the following package has been delivered.

**Tracking number:** [770223472815](#)

**Status:** Delivered: 09/13/2017 11:06 AM  
Signed for By: K.CAIN

**Invoice number:** 10.5

**Purchase order number:** 60536988

**Reference:** 04104183.1

**Signed for by:** K.CAIN

**Delivery location:** CLINTON, PA

**Delivered to:** Receptionist/Front Desk

**Service type:** FedEx Priority Overnight

**Packaging type:** FedEx Box

**Number of pieces:** 1

**Weight:** 2.00 lb.

**Special handling/Services:** Deliver Weekday

**Standard transit:** 9/13/2017 by 12:00 pm

☐ Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 10:09 AM CDT on 09/13/2017.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

© 2017 Federal Express Corporation. The content of this message is protected by copyright and trademark laws under U.S. and international law. Review our [privacy policy](#). All rights reserved.

Thank you for your business.

September 11, 2017

Chris Caruso, Township Manager  
Findlay Township  
1271 Route 30, Findlay Township  
Clinton, PA 15026

**Via FedEx: 7702 2347 2815**

Dear Mr. Caruso:

Shell Pipeline Company LP (SPLC) retained AECOM Technical Services, Inc. (AECOM) to provide design and permitting services. This notice is to inform you of SPLC's intent to construct an ethane pipeline under a Pennsylvania Erosion and Sediment Control General Permit (ESCGP-2) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities and a Chapter 105 Water Obstruction and Encroachment Joint Permit coverage from the Pennsylvania Department of Environmental Protection (PADEP) for the following project:

Project Name:	Falcon Ethane Pipeline System
Project Description:	Installation of approximately 8.8 miles of 12-inch ethane pipeline ethane pipeline for the purpose of delivering product to the Shell Pennsylvania Petrochemical Facility in Monaca, Pennsylvania.
Applicant Name:	Shell Pipeline Company LP
Applicant Contact:	Robert Wooten 150 North Dairy Ashford #A2036G Houston Texas, 77079 Phone: (832) 762-2568
Site Location:	See attached Location Map.
Municipality/County:	Findlay and North Fayette Townships, Allegheny County, PA

Enclosed is a Location Map, a copy of the General Information Form (GIF), a copy of the ESCGP-2 Notice of Intent (NOI) Form, and the Erosion & Sediment Control (E&SC) plan drawings completed by AECOM on behalf of the applicant. If desired, AECOM will also furnish the E&SC Narrative and detail drawings. DEP invites you to review the attached form and to comment on the accuracy of answers provided with regard to land use aspects of this project. Please be specific to DEP and focus on the relationship to local ordinances. If you wish to submit comments to DEP, you must respond within 30 days to the DEP regional office referenced in this letter. If you do not submit comments by the end of the comment period, DEP will assume that there are no substantive conflicts and proceed with the normal application review process.

This letter is intended to satisfy the requirements of Pennsylvania Acts 14, 67, 68, and 127 and the Pennsylvania Municipalities Planning Code. Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PADEP permit must give written notice to the municipality(ies) and the county(ies) in which the permitted activity is located. The written notices shall be received by the municipality(ies) and county(ies) at least 30 days before the PADEP may issue or deny the permit.

Acts 67 and 68, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code.

Please submit any comments concerning this project within 30 days from the date of receipt of this letter to the PADEP, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

For more information about this land use review process, please contact me at 412-503-4595 or visit [www.depweb.state.pa.us](http://www.depweb.state.pa.us) (Keyword: Land Use Reviews).

Sincerely,

A handwritten signature in blue ink, appearing to read "Natalie L. Shearer".

Natalie L. Shearer, M.S., QEP  
Natural Resources Lead  
AECOM

Enclosures:      Location Map, General Information Form (GIF), ESCGP-2 NOI Form, and E&SC plan drawings

**From:** [TrackingUpdates@fedex.com](mailto:TrackingUpdates@fedex.com)  
**To:** [Shearer, Natalie](#)  
**Subject:** FedEx Shipment 770223505008 Delivered  
**Date:** Wednesday, September 13, 2017 8:49:34 AM

FedEx®

## Your package has been delivered

Tracking # 770223505008

Ship date:

**Tue, 9/12/2017**

**Natalie L. Shearer**


AECOM  
Pittsburgh, PA 15220  
US

Delivery date:

**Wed, 9/13/2017 8:47 am**

**James Morosetti & Laura Ludwig**

Township of North Fayette  
400 North Branch Road  
Oakdale, PA 15071  
US

 **Delivered**

### Shipment Facts

Our records indicate that the following package has been delivered.

**Tracking number:** [770223505008](#)

**Status:** Delivered: 09/13/2017 08:47 AM  
Signed for By: W.BUNGARD

**Invoice number:** 10.5

**Purchase order number:** 60536988

**Reference:** 04104183.1

**Signed for by:** W.BUNGARD

**Delivery location:** Oakdale, PA

**Delivered to:** Receptionist/Front Desk

**Service type:** FedEx Priority Overnight

**Packaging type:** FedEx Box

**Number of pieces:** 1

**Weight:** 2.00 lb.

**Special handling/Services:** Deliver Weekday

**Standard transit:** 9/13/2017 by 10:30 am

☐ Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 7:49 AM CDT on 09/13/2017.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

© 2017 Federal Express Corporation. The content of this message is protected by copyright and trademark laws under U.S. and international law. Review our [privacy policy](#). All rights reserved.

Thank you for your business.

September 11, 2017

James Morosetti, Chairman of  
Board of Supervisors  
Laura Ludwig, Community  
Development Director  
North Fayette Township  
400 North Branch Rd, Oakdale, PA

**Via FedEx: 7702 2350 5008**

Dear Supervisors:

Shell Pipeline Company LP (SPLC) retained AECOM Technical Services, Inc. (AECOM) to provide design and permitting services. This notice is to inform you of SPLC's intent to construct an ethane pipeline under a Pennsylvania Erosion and Sediment Control General Permit (ESCGP-2) for Earth Disturbance Associated with Oil & Gas Exploration, Production, Processing or Treatment Operations or Transmission Facilities and a Chapter 105 Water Obstruction and Encroachment Joint Permit coverage from the Pennsylvania Department of Environmental Protection (PADEP) for the following project:

Project Name:	Falcon Ethane Pipeline System
Project Description:	Installation of approximately 8.8 miles of 12-inch ethane pipeline ethane pipeline for the purpose of delivering product to the Shell Pennsylvania Petrochemical Facility in Monaca, Pennsylvania.
Applicant Name:	Shell Pipeline Company LP
Applicant Contact:	Robert Wooten 150 North Dairy Ashford #A2036G Houston Texas, 77079 Phone: (832) 762-2568
Site Location:	See attached Location Map.
Municipality/County:	Findlay and North Fayette Townships, Allegheny County, PA

Enclosed is a Location Map, a copy of the General Information Form (GIF), a copy of the ESCGP-2 Notice of Intent (NOI) Form, and the Erosion & Sediment Control (E&SC) plan drawings completed by AECOM on behalf of the applicant. If desired, AECOM will also furnish the E&SC Narrative and detail drawings. DEP invites you to review the attached form and to comment on the accuracy of answers provided with regard to land use aspects of this project. Please be specific to DEP and focus on the relationship to local ordinances. If you wish to submit comments to DEP, you must respond within 30 days to the DEP regional office referenced in this letter. If you do not submit comments by the end of the comment period, DEP will assume that there are no substantive conflicts and proceed with the normal application review process.

This letter is intended to satisfy the requirements of Pennsylvania Acts 14, 67, 68, and 127 and the Pennsylvania Municipalities Planning Code. Section 1905-A of the Commonwealth Administrative Code, as amended by Act 14, requires that each applicant for a PADEP permit must give written notice to the municipality(ies) and the county(ies) in which the permitted activity is located. The written notices shall be received by the municipality(ies) and county(ies) at least 30 days before the PADEP may issue or deny the permit.

Acts 67 and 68, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code.

Please submit any comments concerning this project within 30 days from the date of receipt of this letter to the PADEP, Southwest Regional Office, 400 Waterfront Drive, Pittsburgh, PA 15222-4745.

For more information about this land use review process, please contact me at 412-503-4595 or visit [www.depweb.state.pa.us](http://www.depweb.state.pa.us) (Keyword: Land Use Reviews).

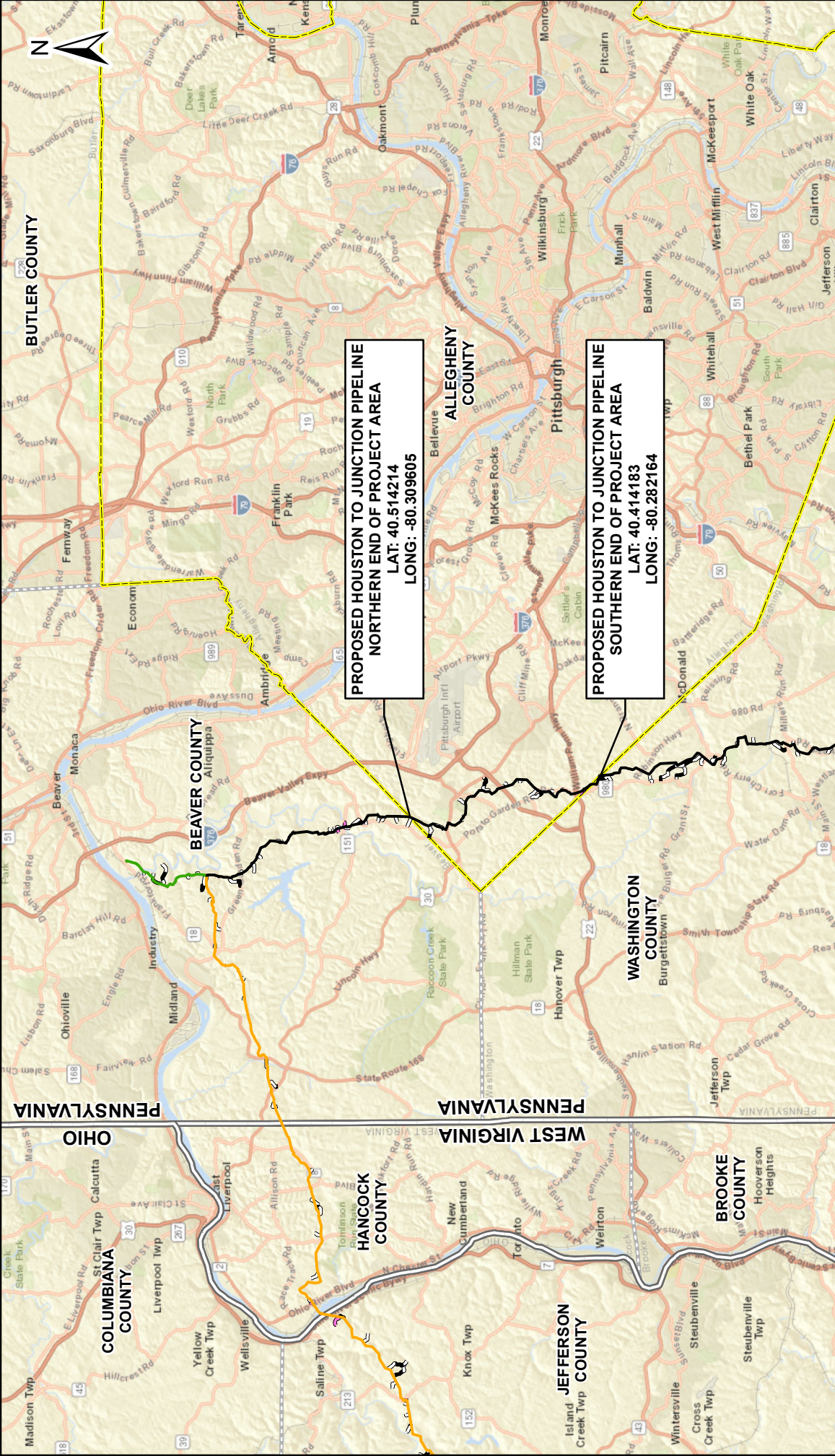
Sincerely,



Natalie L. Shearer, M.S., QEP  
Natural Resources Lead  
AECOM

Enclosures:      Location Map, General Information Form (GIF), ESCGP-2 NOI Form, and E&SC plan drawings





<b>PROJECT LOCATION</b>		<b>REFERENCE: AERIAL LAYER</b> SOURCES: ESRI, HERE, DELORME, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), MAPMYINDIA, NGCC, © OPENSTREETMAP, CONTRIBUTORS, AND THE GIS USER COMMUNITY COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N TRANSVERSE MERCATOR	
		<b>LEGEND</b>  PROPOSED PIPELINE CADIZ TO SCIO HOUSTON TO JUNCTION JUNCTION TO MONACA SCIO TO JUNCTION  PERMANENT ACCESS ROAD TEMPORARY ACCESS ROAD  ALLEGHENY COUNTY COUNTY BOUNDARY STATE BOUNDARY  Miles 0 2.5 5 10 1 in = 5 miles	
<b>FIGURE 1</b>		<b>SITE LOCATION MAP</b> ALLEGHENY COUNTY, PENNSYLVANIA	
		SHELL PIPELINE COMPANY LP HOUSTON, TX 77079	
		SHELL PIPELINE COMPANY LP FALCON ETHANE PIPELINE SYSTEM	
DRAWN BY: PMH APPROVED: NLS		DATE: 9/11/2017 PROJECT #: 60536988	

## **Requirement D**

Cultural Resource Coordination

**See Requirement D PDF**

## **PHMC Correspondence and Cultural Resources Reports**

## **PHMC Correspondence and Architectural History Reports**

## **Requirement E**

### PASPGP-5 Reporting Criteria Checklist





## PASPGP-5 REPORTING CRITERIA CHECKLIST

The following questionnaire must be completed (instructions on pages 1-6) and submitted as part of all DEP Chapter 105 applications / registrations to determine the appropriate Federal Pennsylvania State Programmatic General Permit-5 (PASPGP-5) review procedure. **Incomplete submissions, including lack of certification signature, will be returned.**

Applicant / Project Name: Shell Pipeline Company LP/Falcon Ethane Pipeline Project

County(s): Allegheny

### SECTION A: ELIGIBILITY DETERMINATION

- YES ☐ NO ☒ 1. Does the proposed work associated with the Single and Complete Project temporarily and/or permanently impact greater than 1.0 acre of waters and/or wetlands, and/or result in the loss of greater than 1,000 linear feet of stream channel(s)?
- YES ☐ NO ☒ 2. Is any of the proposed work located waterward of the ordinary high water mark (OHWM) of any of the ineligible waterbodies identified in the instructions?
- YES ☐ NO ☒ 3. Has any portion of the proposed work been denied a DEP Chapter 105 Permit, a State Water Quality Certification as required under Section 401 of the Clean Water Act, or a Coastal Zone Consistency Determination?
- YES ☐ NO ☒ 4. Does the proposed work result in the diversion of more than 10,000 gallons per day of surface water or groundwater into or out of the Great Lakes Basin (Lake Erie Watershed)?

\*\*\*\*\*

### SECTION B: REPORTING ACTIVITY DETERMINATION

- YES ☐ NO ☒ 1. Does the proposed work associated with a Single and Complete Project, including any attendant features, permanently and/or temporarily impact greater than 0.5 acre of waters of the United States, including jurisdictional wetlands?
- YES ☐ NO ☒ 2a. Does the application/registration include any proposed Single and Complete Projects permanently impacting greater than 250 linear feet of streams, rivers, or other watercourses (excluding wetlands)?
- YES ☐ NO ☒ 2b. Is the Single and Complete Project for stream bank stabilization, rehabilitation, protection and/or enhancement and propose impacts of greater than 500 linear feet of stream channel(s)?
- YES ☐ NO ☒ 2c. Does the Single and Complete Project qualify for DEP GP-1 for Fish and Enhancement Structures?
- YES ☐ NO ☒ 2d. Is the project covered by a programmatic State Water Quality Certification issued by DEP - that is conditioned upon receiving approval by- the Environmental Review Committee?
- YES ☐ NO ☒ 3. Does the application/registration include any Single and Complete Projects that propose the permanent conversion of greater than 0.10 acre of forested and/or shrub-scrub wetlands in association with a regulated activity?
- YES ☐ NO ☒ 4. If the application/registration is for a utility line, do any of the single and complete projects in waters of the United States, including jurisdictional wetlands, exceed 500 linear feet (excluding overhead lines)?
- YES ☒ NO ☐ 5. Is this application/registration to place a buried utility line in waters and/or wetlands in a manner that the utility line will run parallel to or along a stream bed?

## SECTION B: REPORTING ACTIVITY DETERMINATION (CONT)

- YES ☐ NO ☒ 6. Is the application/registration associated with a Single and Complete Project whereby a previous Department of the Army authorization has been issued through an Individual Permit, a Nationwide Permit, or a PASPGP processed by the Corps as a Category III/Reporting Activity? **If YES, please complete the following table.**

Authorization Type	Authorization Number	Date (mm/dd/yyyy)	Federal Permitted Impacts	
			Wetlands	Waters

- YES ☐ NO ☒ 7a. Is the proposed project located in waterways occupied by Federally listed, proposed, or candidate mussels or fish, or in waters of the United States within 300 feet of these listed waterways? See *instructions for list of waterways*.
- YES ☐ NO ☐ 7b. If 7a is yes, have you received documented clearance from the USFWS, or a Section 7 of the Endangered Species Act (ESA) "no effect" determination from the Corps? Documented clearance from the USFWS could include PNDI language stating "NO KNOWN IMPACT"; or, if in a USFWS letter the language must indicate "no effect" or "the project or activity will not affect Federally listed species."
- YES ☐ NO ☒ 8a. Does the project propose impacts to Federally regulated wetlands in a county that requires bog turtle screening procedures? See *instructions for list of counties*.
- YES ☐ NO ☐ 8b. If 8a is YES, have you received documented clearance from the USFWS, or a Section 7 ESA "no effects" determination from the Corps? Documented clearance from the USFWS could include PNDI language stating "NO KNOWN IMPACT"; or, if in a USFWS letter the language must indicate "no effect" or "the project or activity will not affect Federally listed species."
- YES ☒ NO ☐ 9a. Does the completed Pennsylvania Natural Diversity Inventory (PNDI) search receipt identify a potential conflict(s) for a Federally listed species?
- YES ☒ NO ☐ 9b. If YES for 9a, have you received additional documented Section 7 ESA clearance, or do you agree, through signing of the PNDI receipt, to comply with all avoidance measures identified on the PNDI receipt associated with Federally listed species for the proposed work?
- YES ☐ NO ☒ 10. Is the proposed work associated with maintenance dredging of a reservoir's design storage capacity, including the removal of accumulated sediments? This corresponds to activities authorized pursuant to Section 7 of the Dam Safety and Encroachments Act (DSEA), 32 P.S. § 693.1, et seq., and the rules and regulations promulgated there under in the PA Bulletin (codified at 25 PA. Code, Chapter 105, § 105.131(c)).
- YES ☒ NO ☐ 11a. If the DEP Chapter 105 application/registration requires submittal of a Cultural Resources Notification Form as part of the application/registration, have you included the response letter from the State Historic Preservation Officer (SHPO), i.e., Pennsylvania Historic and Museum Commission (PHMC) with your application/registration?
- YES ☒ NO ☐ 11b. Has the PHMC determined that archaeological or other cultural resources are believed to exist within the permit area?
- YES ☒ NO ☐ 11c. If yes for 11b, have you received follow-up documented clearance from PHMC, or a Section 106 "no effect" determination from the Corps?
- YES ☐ NO ☒ 12a. Does the proposed work occur in a component of the National Wild and Scenic River System or in a river officially designated by Congress as a "Study River" for possible inclusion in the System? See *instructions for listing*.
- YES ☐ NO ☐ 12b. If yes for 12a, have you received a written determination from the Federal agency with direct management responsibility for such river that the proposed activity will not adversely affect any Wild and Scenic River including study rivers?
- YES ☐ NO ☒ 13. Does the proposed project require the preparation of an Environmental Impact Statement?
- YES ☒ NO ☐ 14. Does the proposed regulated activity or area of indirect impact (secondary impact) extend across state boundaries (i.e., the work is not wholly located within the Commonwealth of Pennsylvania)?

## SECTION B: REPORTING ACTIVITY DETERMINATION (CONT)

- YES ☐ NO ☒ 15. Is the proposed work authorized pursuant to DEP Chapter 105 permits in conjunction with coal and non-coal mining permits issued by the DEP District Mining Offices (Bureau of Mining and Reclamation), including activities authorized pursuant to Chapter 105 Waiver 4 [25 Pa. Code §105.12(a)(4)] and GP-101 and GP-102]?
- YES ☒ NO ☐ 16. Is the proposed work associated with the construction of a Mitigation Bank or In Lieu Fee site developed to meet the requirements of the Corps and EPA April 10, 2008 Compensatory Mitigation for Losses of Aquatic Resources: Final Rule?
- YES ☐ NO ☒ 17. Will the proposed work alter, use, build upon, attempt to possess, or that may harm or impair any existing or proposed Corps Civil Works project, and any Corps-owned or managed property?
- YES ☐ NO ☒ 18a. Does the Single and Complete Project involve the construction or expansion of a residential, commercial or institutional subdivision or development?
- YES ☒ NO ☐ 18b. Does greater than 0.25 acre of wetland(s) exist within the property boundary that are not proposed to be directly impacted as part of this application/registration? **If YES, provide wetland acreage: 7.87 acres.**
- YES ☐ NO ☒ 18c. Are you proposing to protect the wetland area(s) through a deed restriction or conservation easement that follows the Corps' Model Protective Covenant?
- YES ☐ NO ☒ 19. Does the proposed work temporarily impact waters and/or wetlands that will remain in place for more than 1 year?
- YES ☐ NO ☒ 20. Do you have any other pending applications/registrations with the DEP or Corps that are necessary for this total proposed project to function and meet its intended purpose? **If YES, provide following information.**

Application / Registration Number / Type	Project Name	Date of Submittal to DEP (mm/dd/yyyy)	DEP / CCD Reviewing Office	Corps Reviewing Office

- YES ☐ NO ☒ 21. Are you proposing to do work in the Delaware River (upstream from the U.S. Route 202 Bridge in New Hope, Pennsylvania.) and/or the Lehigh River (from the mouth to Francis E. Walter Dam, located in Carbon and Luzerne County, Pennsylvania between March 15 and June 30)?
- YES ☐ NO ☒ 22a. Does the proposed work occur in any of the waters listed in the instructions?
- YES ☐ NO ☐ 22b. Will you comply with all of the identified conservation measures?

\*\*\*\*\*



### SECTION C: CERTIFICATION

I certify that the information provided on this form is true and correct to the best of my knowledge and information. If any of the information and/or plans is found to be in error, falsified, and/or incomplete, your Chapter 105/PASPGP-5 authorization/verification may be subject to modification, suspension, or revocation in accordance with applicable regulations.

Stephen Van Stone  
Signature of Applicant

11/9/17  
Date

**Stephen Van Stone**  
**Attorney-In-Fact**

Stephen Van Stone  
Name Typed or Printed

\*\*\*\*\*

### IMPERVIOUS SURFACE DATA FOR CORPS

- YES ☐ NO ☒ 1a. Is your project located in the Corps of Engineers Philadelphia District (Delaware River Watershed), or in Chester, Lancaster, or York County?
- YES ☐ NO ☒ 1b. Does your project propose impervious surfaces within waters and wetlands? If YES, provide area of impervious surface within the footprint of waters and wetlands: \_\_\_\_\_ square feet
- YES ☐ NO ☒ 1c. Does any part of your project propose the removal of any impervious surfaces? If YES, provide area of impervious surface being removed: \_\_\_\_\_ square feet

### FOR DEP USE ONLY

\_\_\_\_\_  
DEP / District Manager Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name Typed or Printed

\_\_\_\_\_  
Permit Number

## **Requirement F**

### **Bog Turtle Habitat Screening**

(This requirement is not applicable due to this Project's location in counties where bog turtles do not occur)

## **Requirement G**

PNDI Search and Approval

**See Requirement G PDF**

## **DCNR Correspondence and Botanical Survey Reports**

## **PFBC Correspondence**

## **PGC Correspondence and Northern Harrier/Short Eared Owl Survey Report**

**USFWS Correspondence and Bat Mist Net, Bald Eagle, and  
Mussel Survey Reports**

## **Requirement H**

### Plans



FALCON ETHANE PIPELINE SYSTEM  
 EROSION AND SEDIMENT CONTROL SITE SPECIFIC PLANS  
 ALLEGHENY COUNTY, PA

PREPARED FOR:  
 SHELL PIPELINE COMPANY LP  
 150 N DAIRY ASHFORD RD  
 HOUSTON, TX 77079

SEPTEMBER, 2017  
 REVISED: NOVEMBER, 2017

PREPARED BY:  
 AECOM  
 FOSTER PLAZA 6  
 681 ANDERSEN DRIVE  
 SUITE 400  
 PITTSBURGH, PA 15220

						FALCON ETHANE PIPELINE SYSTEM	
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	SHELL PIPELINE COMPANY LP	
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	COVER	
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	ALLEGHENY CO. PA	
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						DATE: 09/14/17	REV. 1
						BY: IMM	SPLC-GOM-AE-SA124677

Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\COVER-ALLEGHENY.DWG  
 Last saved by: TASHINA.MCKINNEY (12/4/2017 3:57 PM) Last Plotted: 2017-12-04 (12/4/2017 3:58 PM)

Filename: Y:\PROJECTS\1747\SHELL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\_COVER-ALLEGHENY.DWG  
Last saved by: TASHINA MCKINNEY (12/4/2017 3:57 PM) Last Plotted: 2017-12-04 (12/4/2017 3:58 PM)

## EXISTING:

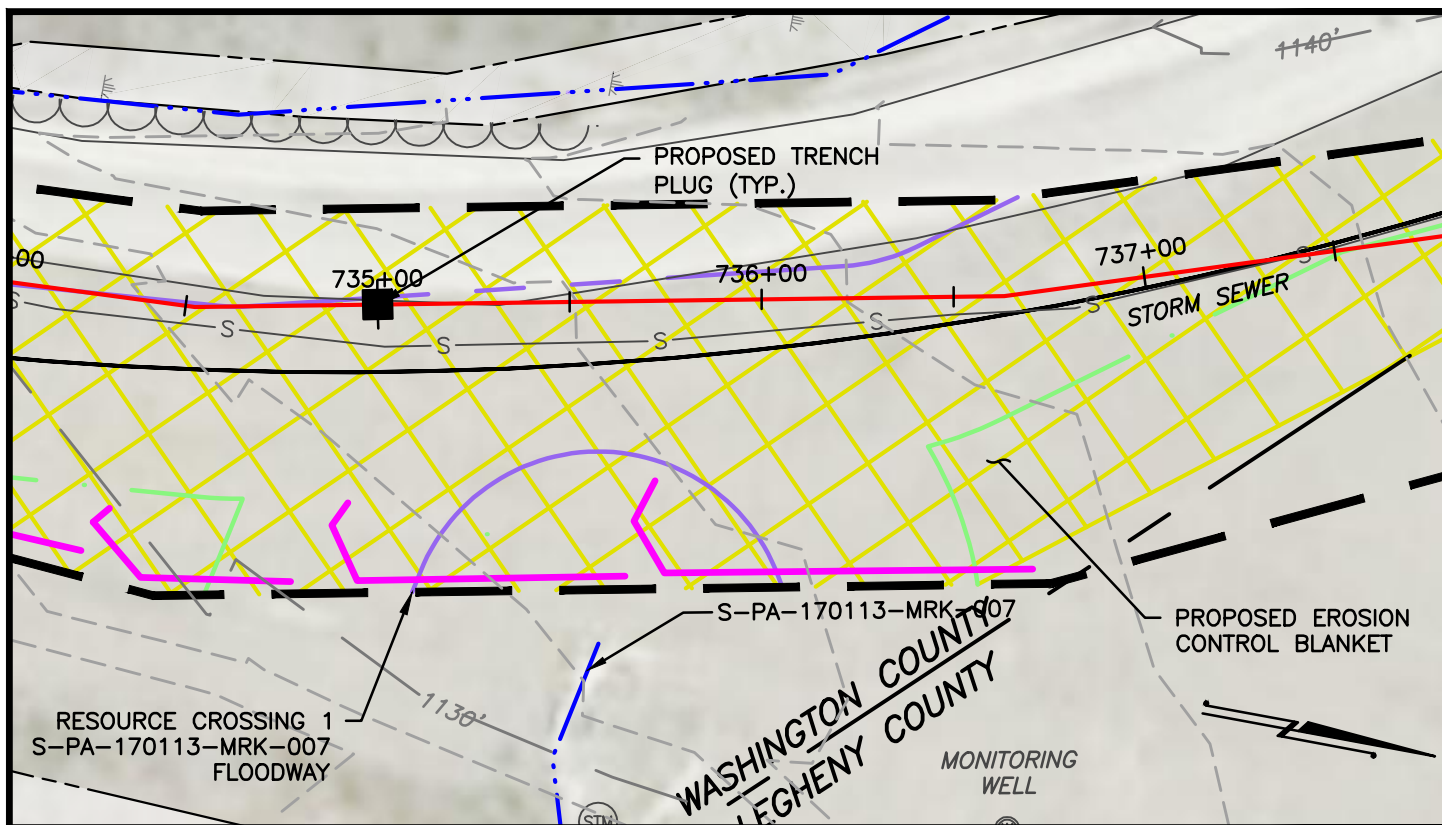
	EXISTING CONTOURS (INDEX)		ROAD CENTERLINE
	EXISTING CONTOURS (INTERMEDIATE)		WATER LINE
	PROPERTY LINE		GUIDE RAIL
	STREAM		SIGN
	WETLAND		MAILBOX
	OPEN-ENDED WETLAND		TREE
	SANITARY SEWER		TELEPHONE PEDESTOOL
	FENCE LINE		GAS METER
	ELECTRIC UTILITY		WELL
	GAS LINE		PIPELINE MARKER
	OVERHEAD POWER LINE		CATCH BASIN
	CULVERT		PIPELINE TEST LEAD
	TREE / BRUSH LINE		WATER METER
	UTILITY POLE, GAS LINE MAKER		STORM SEWER MANHOLE
	RIPARIAN BUFFER (100' BUFFER)		SANITARY SEWER MANHOLE
	50' ASSUMED FLOODWAY		

## PROPOSED:

	ACCESS ROAD CENTERLINE
	PROPOSED PIPELINE
	PROPOSED BORE/HDD
	PROPOSED LIMIT OF DISTURBANCE
	ACCESS ROAD CENTERLINE
	PROPOSED SILT FENCE (BY TYPE)
	PROPOSED COMPOST FILTER SOCK
	PROPOSED WATERBAR
	PROPOSED TRENCH PLUG
	PROPOSED ORANGE SAFETY FENCE
	PROPOSED TIMBER MAT
	PROPOSED EROSION CONTROL BLANKET
	PROPOSED STONE CONSTRUCTION ENTRANCE

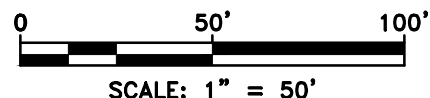
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	FALCON ETHANE PIPELINE SYSTEM		
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	SCIO TO JUNCTION		
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	LEGEND		
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						ALLEGHENY CO. PA		
DATE:		09/14/17	BY:		IMM	SPLC-GOM-AE-SA124678		REV. 1

Filename: Y:\PROJECTS\1747\SHALL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\063-FW ALLEGHENY.DWG  
 Last saved by: TASHINA MCKINNEY (12/5/2017 2:13 PM)  
 Last Plotted: 2017-12-05 (12/5/2017 2:17 PM)

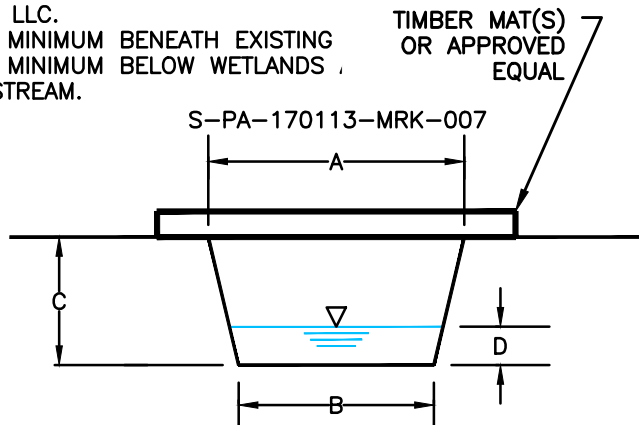


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS, FEET BELOW BOTTOM OF STREAM.

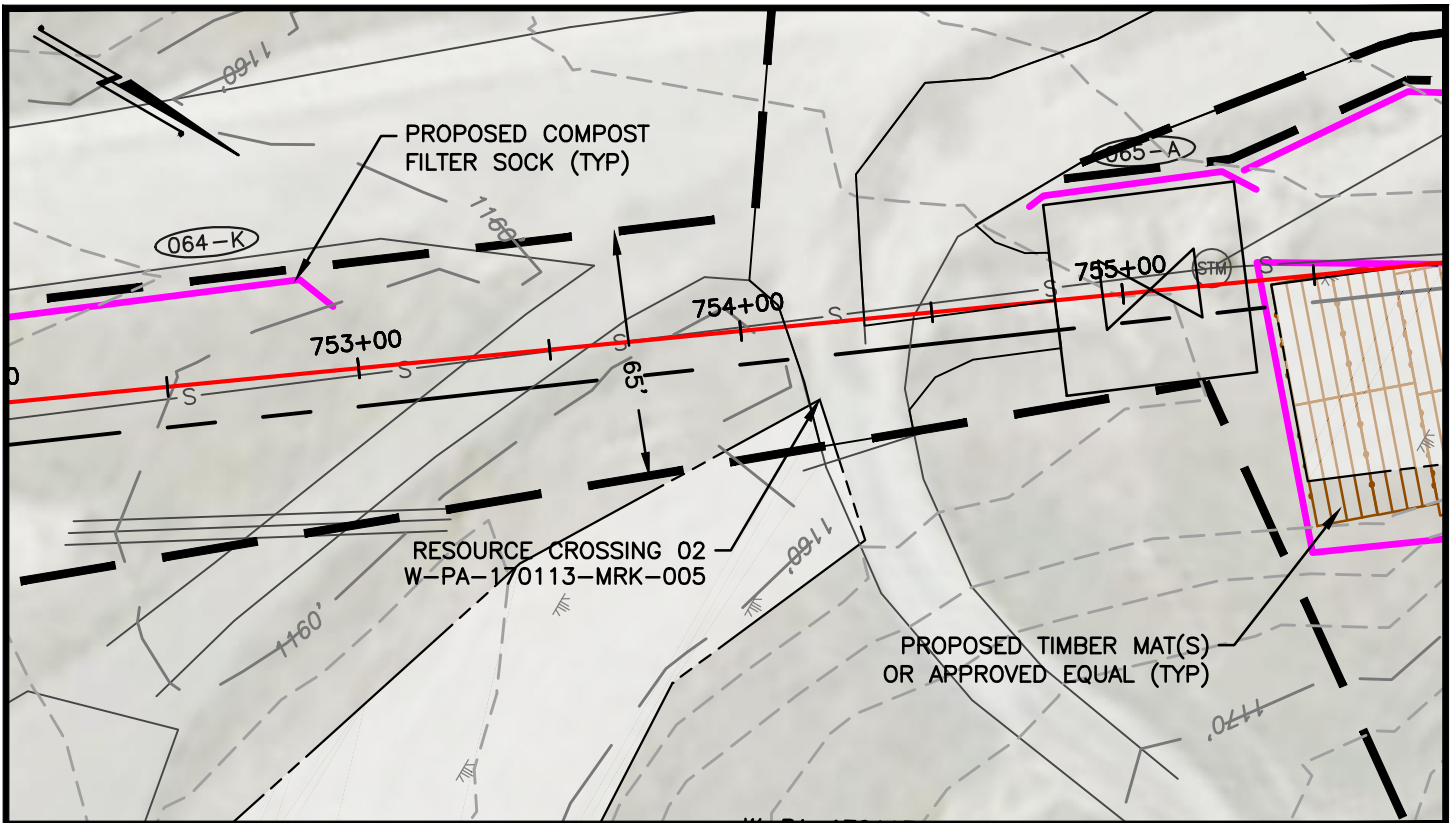


A = 6.00'  
 B = 2.00'  
 C = 1.10'  
 D = 0.10'



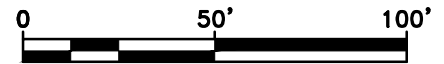
						FALCON ETHANE PIPELINE SYSTEM	
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	HOUSTON TO JUNCTION	
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	SS051 - RESOURCE CROSSING #1	
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	NORTH FAYETTE TOWNSHIP	
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						ALLEGHENY COUNTY, PA	
			DATE: 09/14/17		SPLC-GOM-AE-SA124550		REV. 1
			BY: IMM				

Filename: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\065-1-W01.DWG  
Last saved by: TASHINA MCKINNEY (10/27/2017 2:14 PM) Last Plotted: 2017-12-04 (12/4/2017 9:39 AM)



**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'

REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

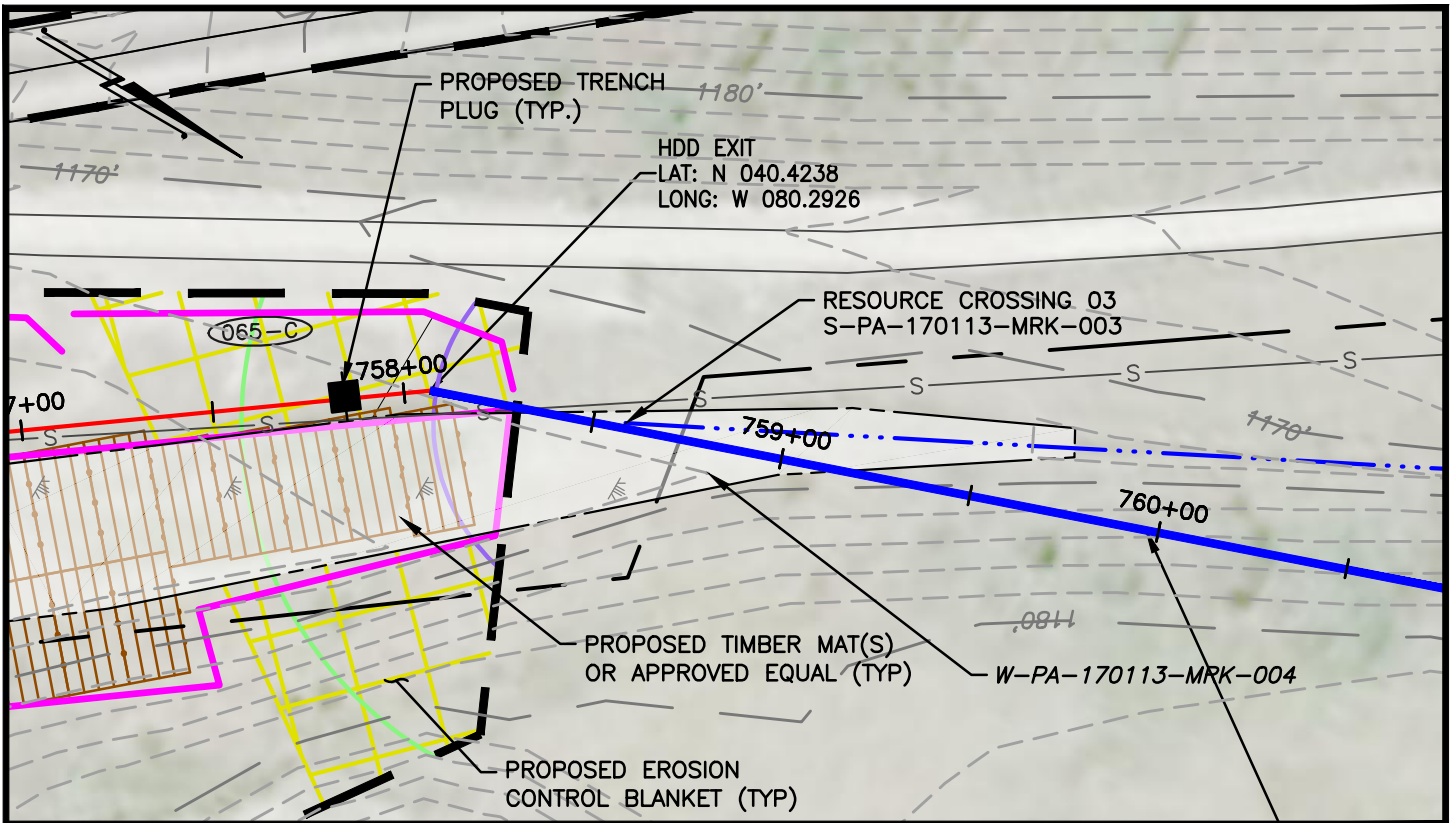
**FALCON ETHANE PIPELINE SYSTEM**

**HOUSTON TO JUNCTION**

**SS052 - RESOURCE CROSSING #2**  
**NORTH FAYETTE TOWNSHIP**  
**ALLEGHENY COUNTY, PA**

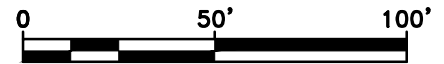
DATE:	09/14/17	SPLC-GOM-AE-SA124551	REV.
BY:	IMM		1

File name: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\065-2-S01.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 8:56 AM) Last Plotted: 2017-12-04 (12/4/2017 9:41 AM)



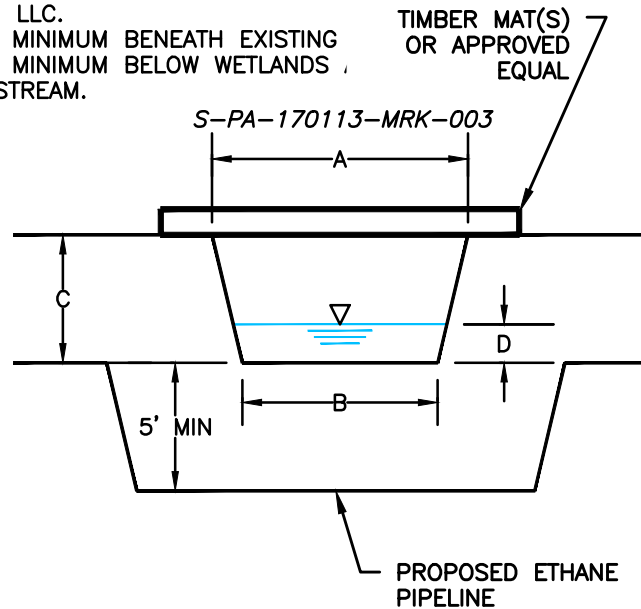
**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS , FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'

A = 2.50'  
 B = 1.00'  
 C = 1.10'  
 D = 0.30'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

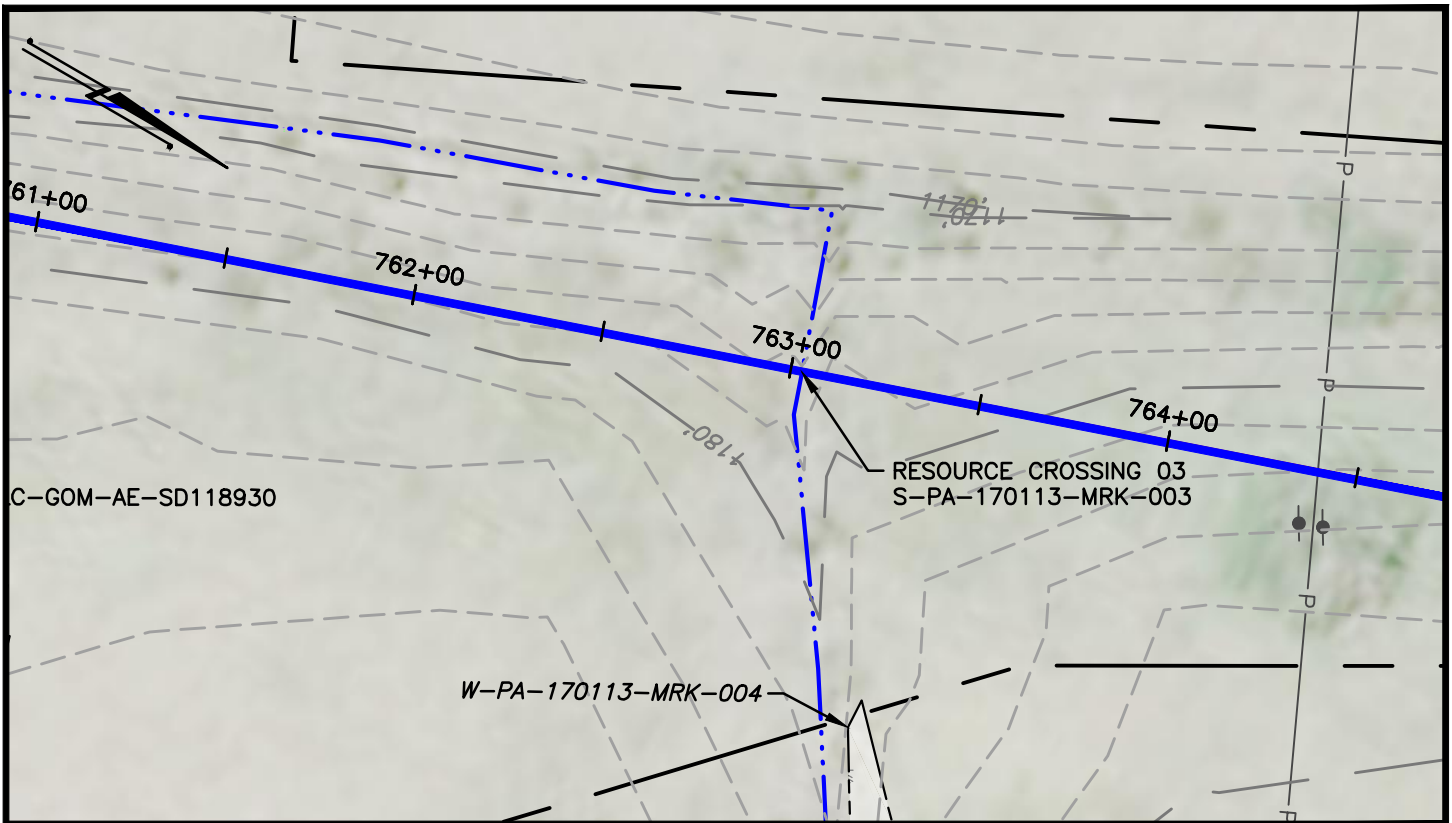
**FALCON ETHANE PIPELINE SYSTEM**

**HOUSTON TO JUNCTION**

**SS053 - RESOURCE CROSSING #3**  
**NORTH FAYETTE TOWNSHIP**  
**ALLEGHENY COUNTY, PA**

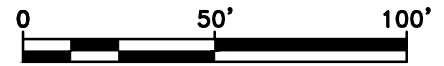
DATE:	09/14/17	SPLC-GOM-AE-SA124552	REV. 1
BY:	IMM		

Filename: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\065-3-W02.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 8:52 AM) Last Plotted: 2017-12-04 (12/4/2017 9:42 AM)



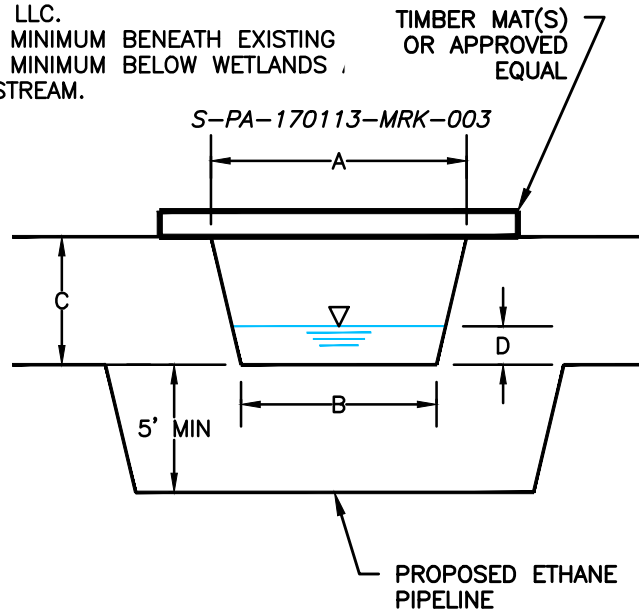
**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS , FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'

A = 2.50'  
 B = 1.00'  
 C = 1.10'  
 D = 0.30'



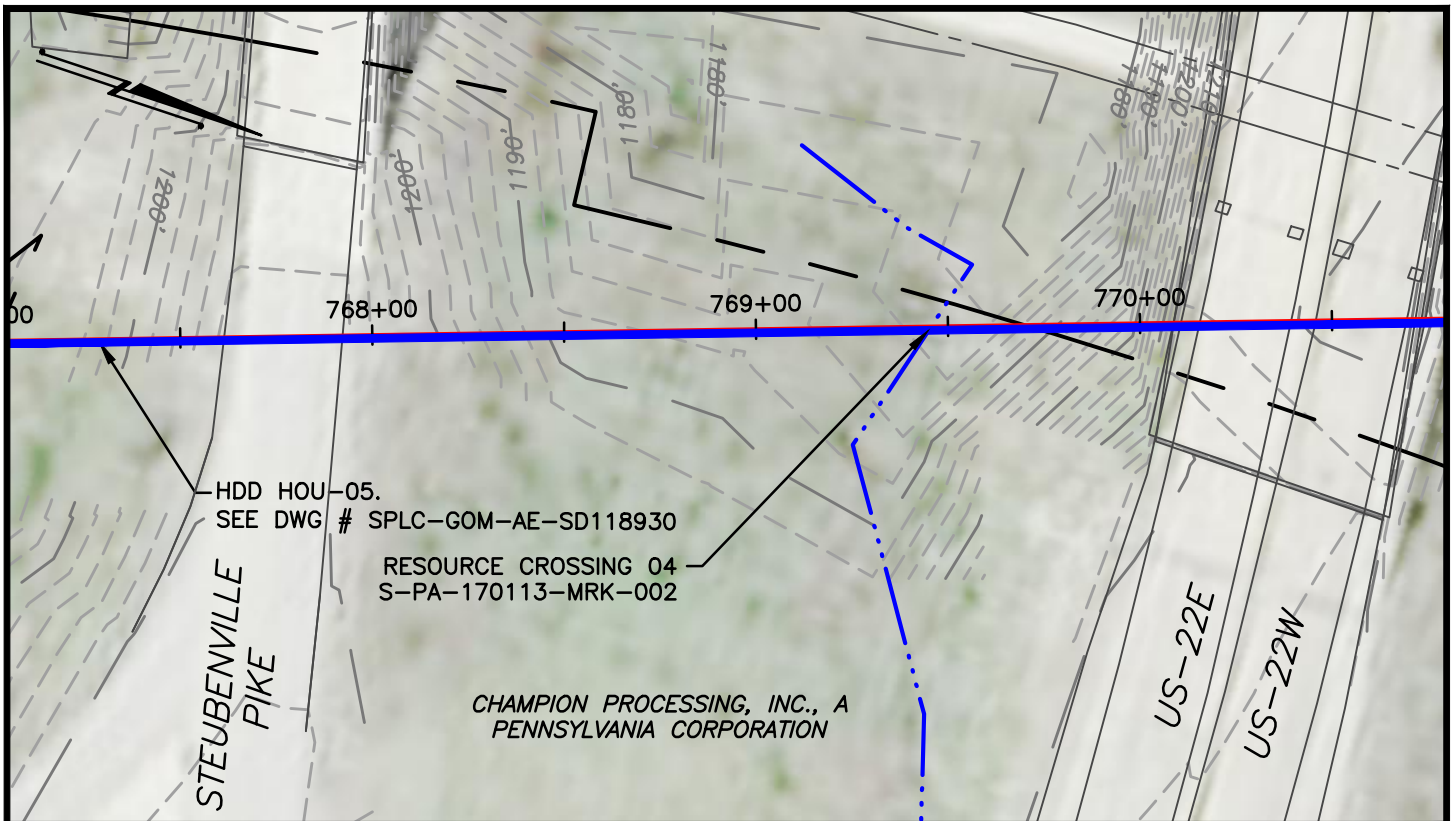
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

FALCON ETHANE PIPELINE SYSTEM		
HOUSTON TO JUNCTION		
SS054 - RESOURCE CROSSING #3		
NORTH FAYETTE TOWNSHIP		
ALLEGHENY COUNTY, PA		
DATE:	09/14/17	REV. 1
BY:	IMM	
SPLC-GOM-AE-SA124553		

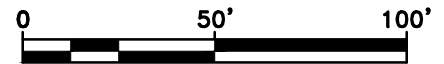


Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\066-1-S01.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 10:22 AM) Last Plotted: 2017-12-04 (12/4/2017 9:44 AM)

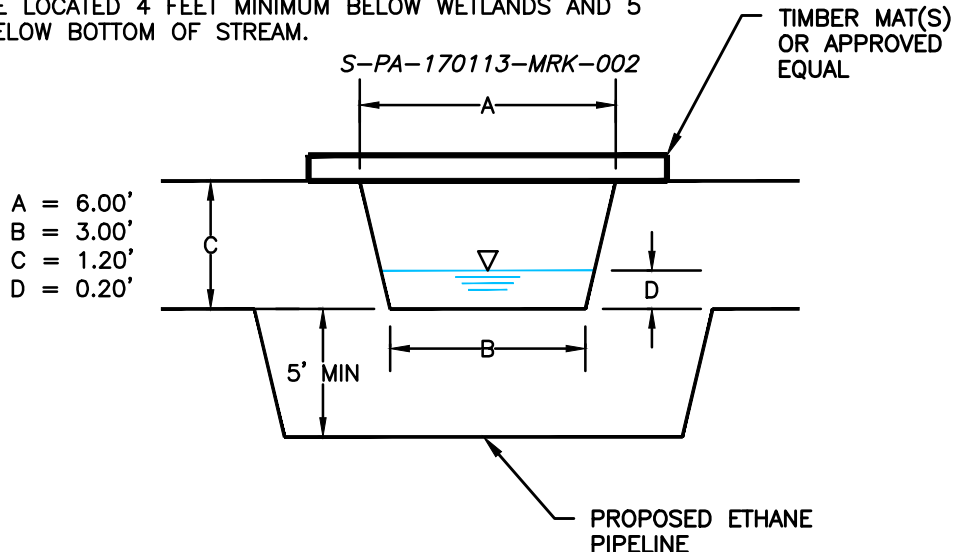


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.

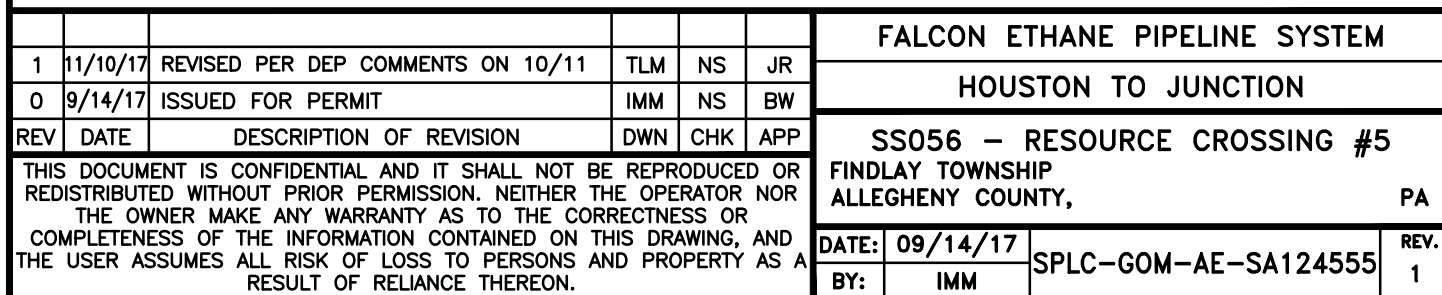


SCALE: 1" = 50'



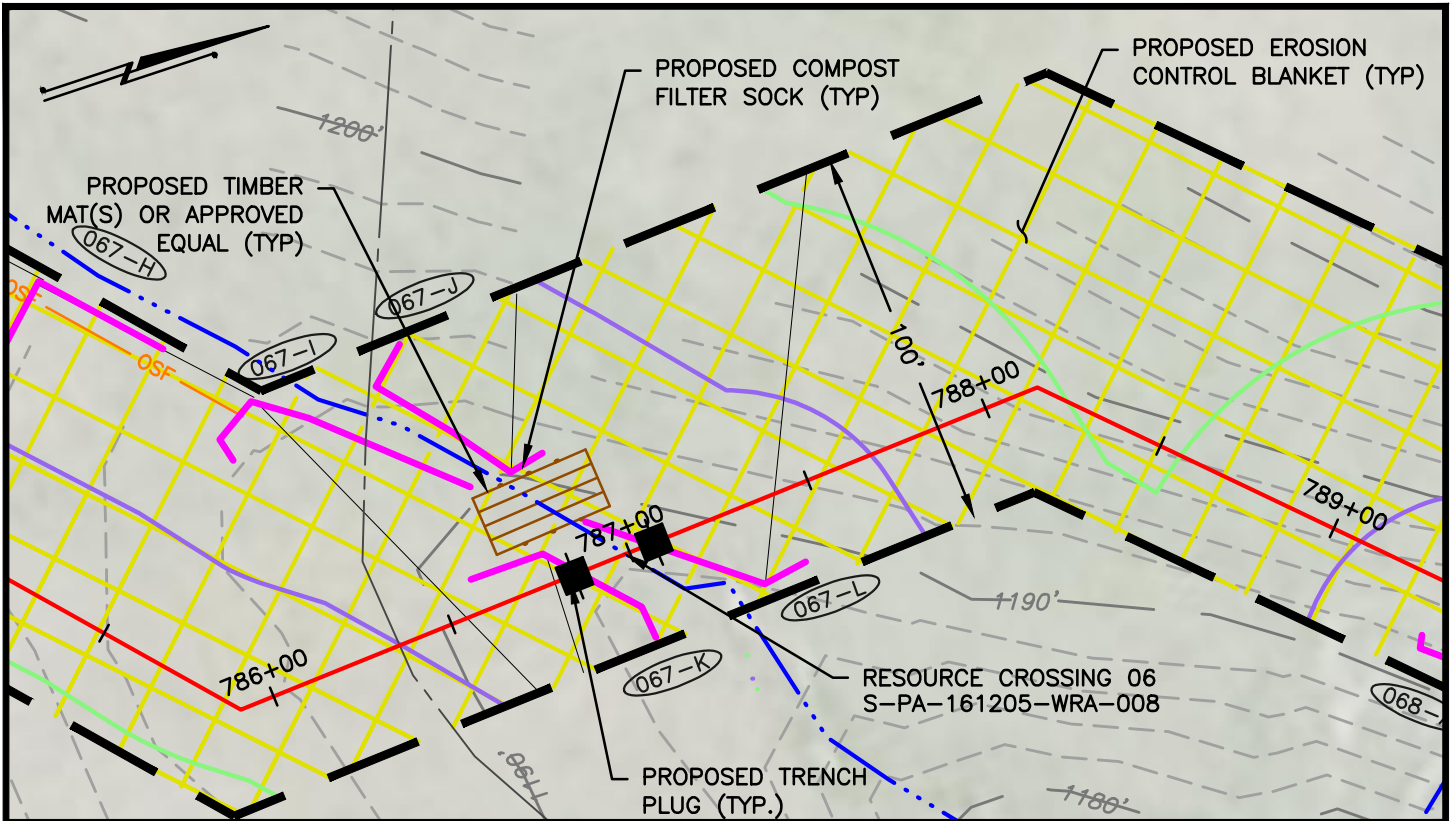
FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS055 - RESOURCE CROSSING #4					
NORTH FAYETTE AND FINDLAY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.			DATE: 09/14/17		
			BY: IMM		
			SPLC-GOM-AE-SA124554		
			REV. 1		

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



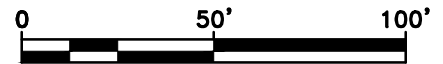


File: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\067-2-S01.DWG  
 Last saved by: LEVI.WOLFE02 (11/10/2017 2:22 PM) Last Plotted: 2017-12-04 (12/4/2017 9:47 AM)

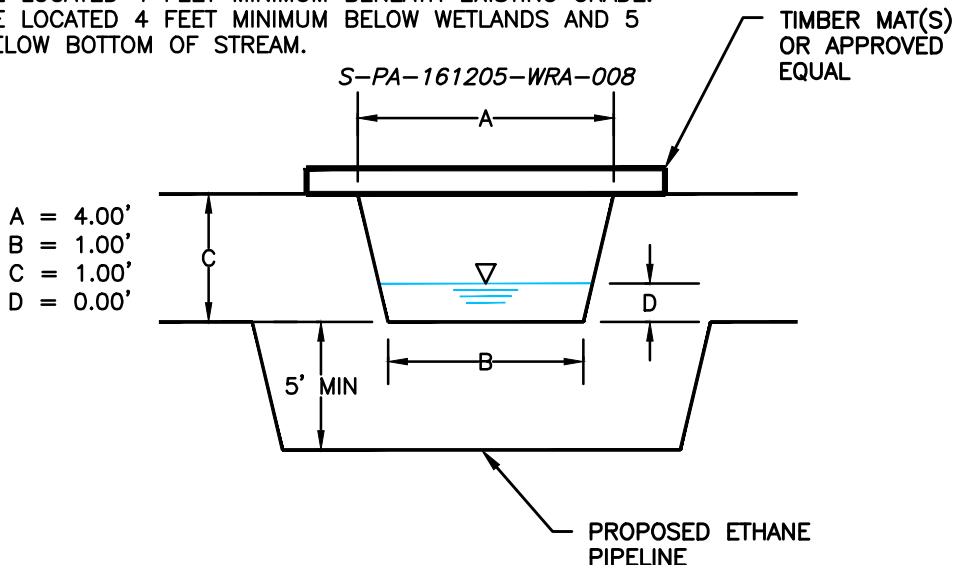


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

**FALCON ETHANE PIPELINE SYSTEM**

**HOUSTON TO JUNCTION**

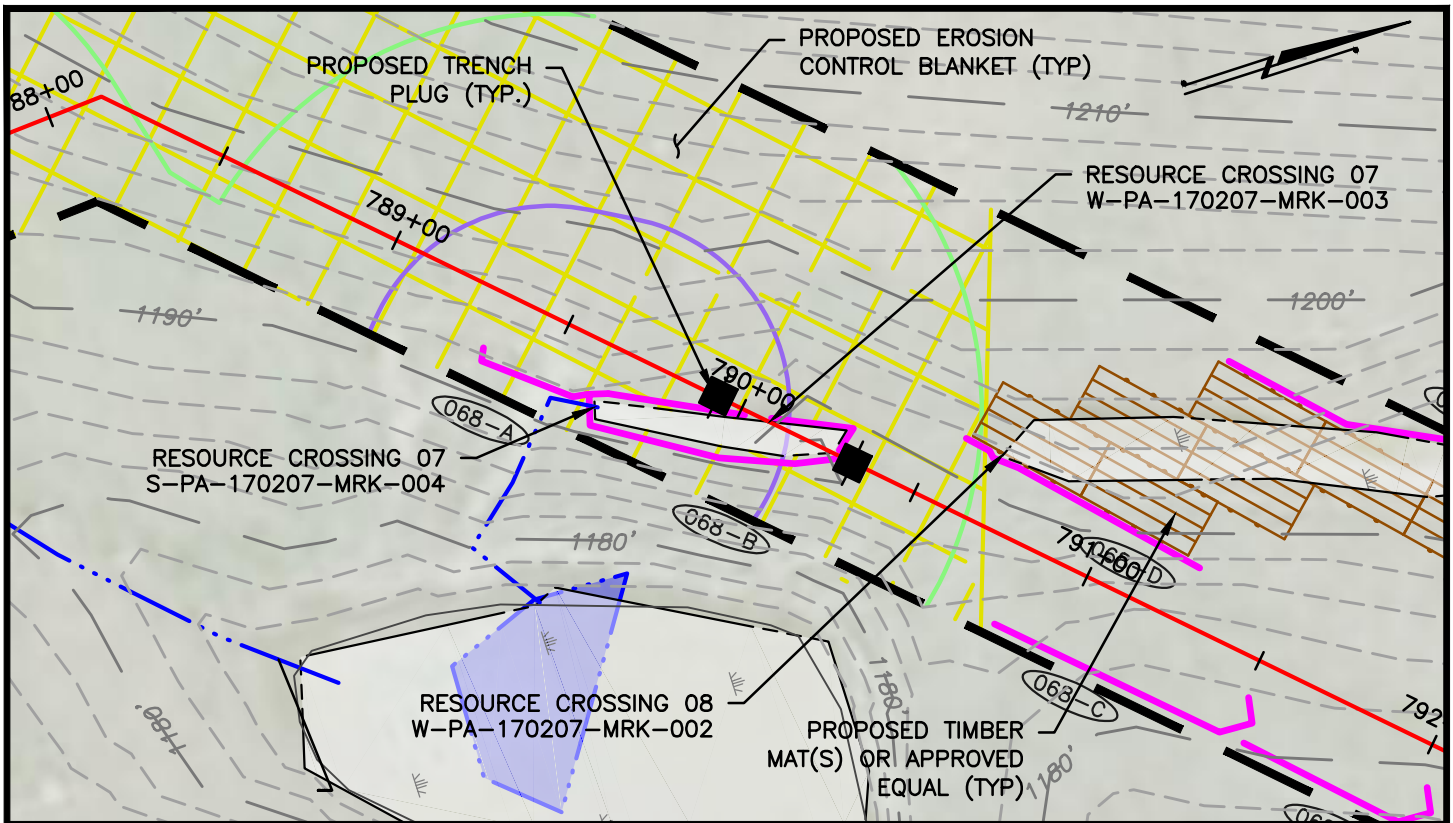
**SS057 - RESOURCE CROSSING #6**

FINDLAY TOWNSHIP  
 ALLEGHENY COUNTY,

PA

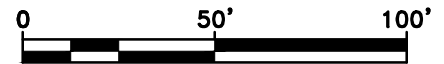
DATE:	09/14/17	SPLC-GOM-AE-SA124556	REV. 1
BY:	IMM		

Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\068-S1\_W1\_W2.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 9:06 AM) Last Plotted: 2017-12-04 (12/4/2017 9:48 AM)

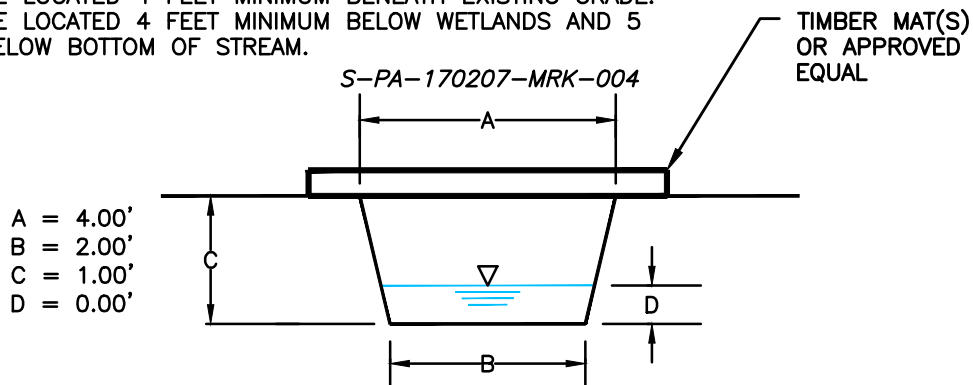


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

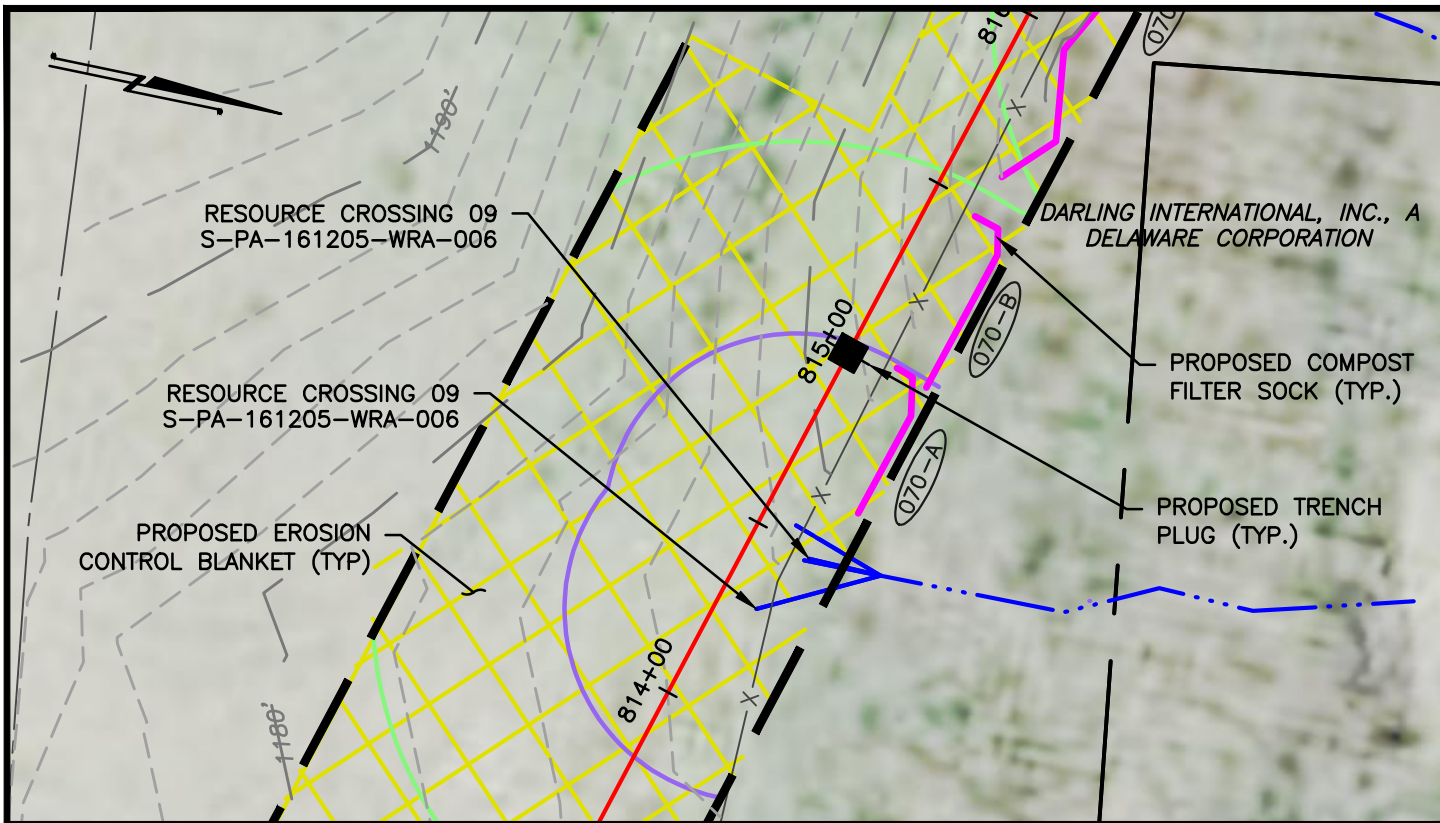
**FALCON ETHANE PIPELINE SYSTEM**

**HOUSTON TO JUNCTION**

**SS058 - RESOURCE CROSSING #7 & #8**  
**FINDLAY TOWNSHIP**  
**ALLEGHENY COUNTY, PA**

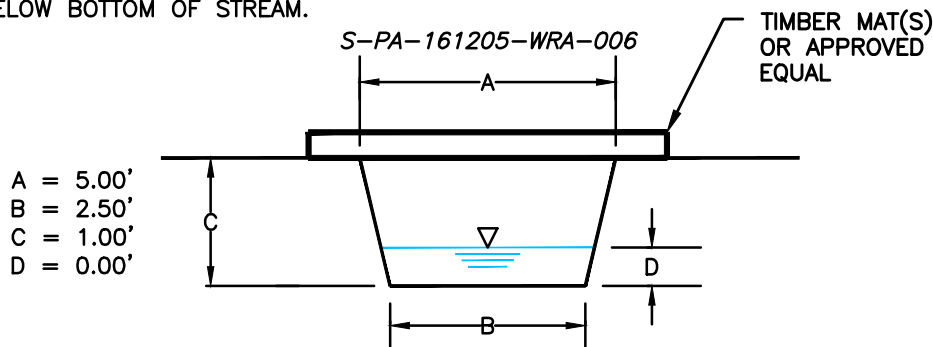
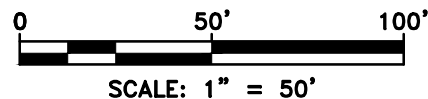
DATE:	09/14/17	SPLC-GOM-AE-SA124557	REV.
BY:	IMM		1

File name: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\070-1-S1.DWG  
 Last saved by: LEVI.WOLFE02 (11/10/2017 3:08 PM) Last Plotted: 2017-12-04 (12/4/2017 9:49 AM)



**NOTES:**

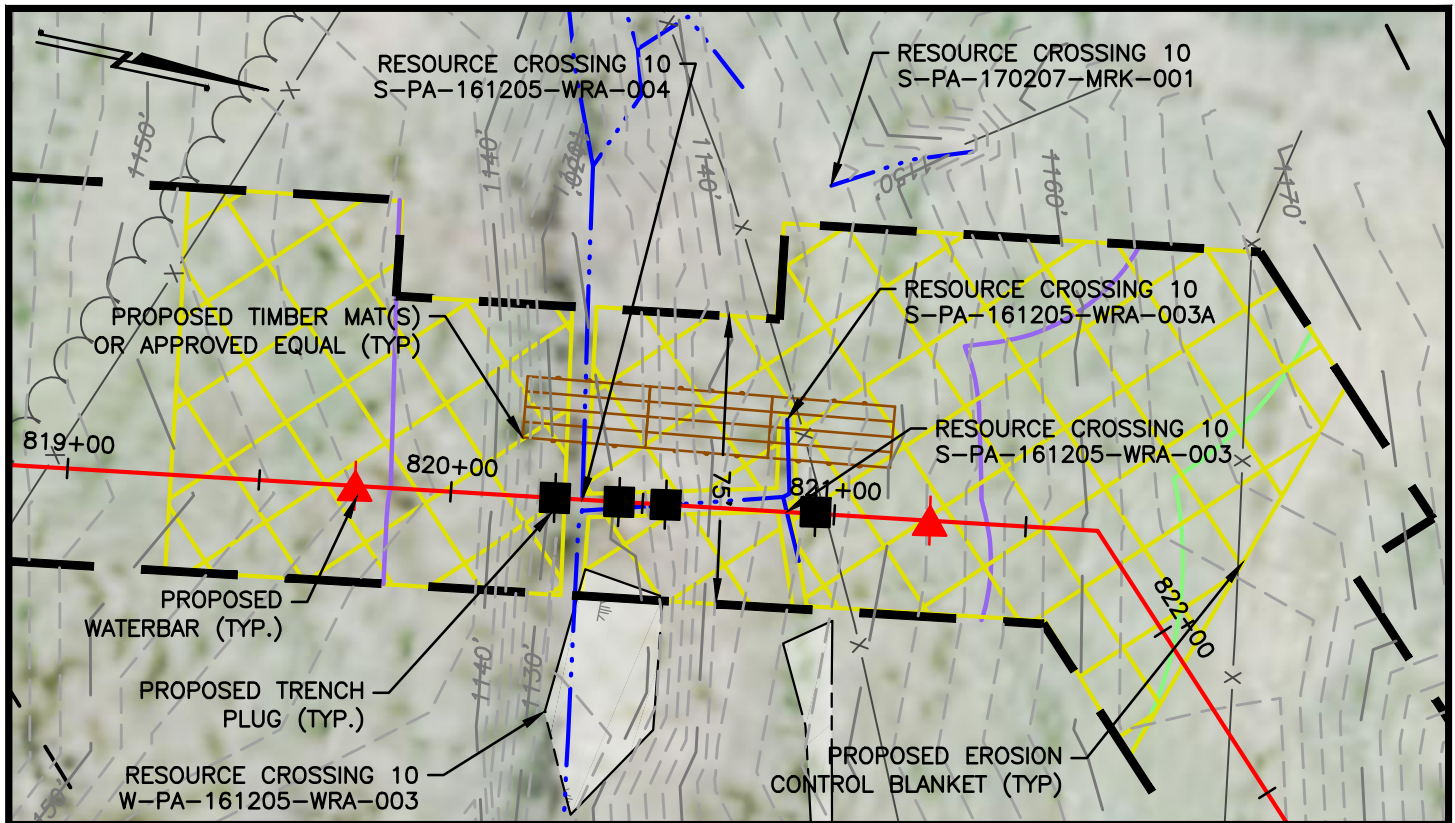
1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS059 - RESOURCE CROSSING #9					
FINDLAY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.			DATE: 09/14/17		
			BY: IMM		
			SPLC-GOM-AE-SA124558		
			REV. 1		

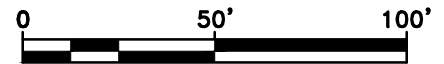


File name: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\070-2-S2-S3-W1.DWG  
Last saved by: ALEXANDER.CURTICE (11/22/2017 9:10 AM) Last Plotted: 2017-12-04 (12/4/2017 9:51 AM)

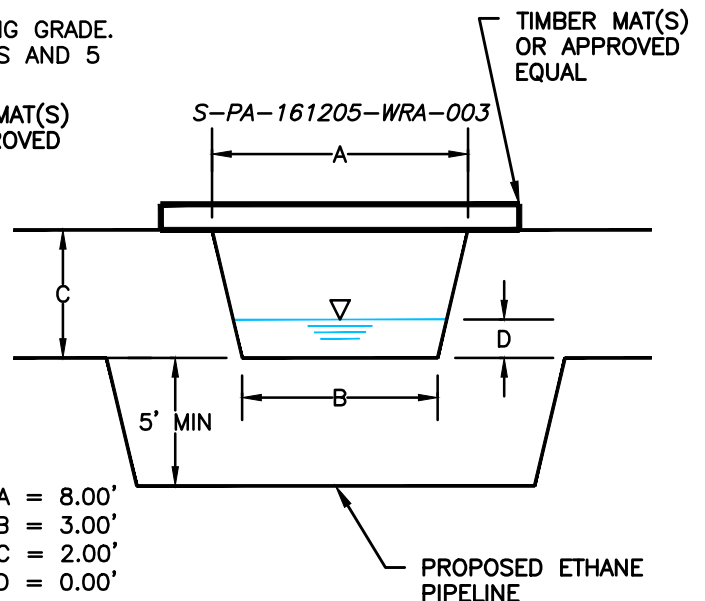
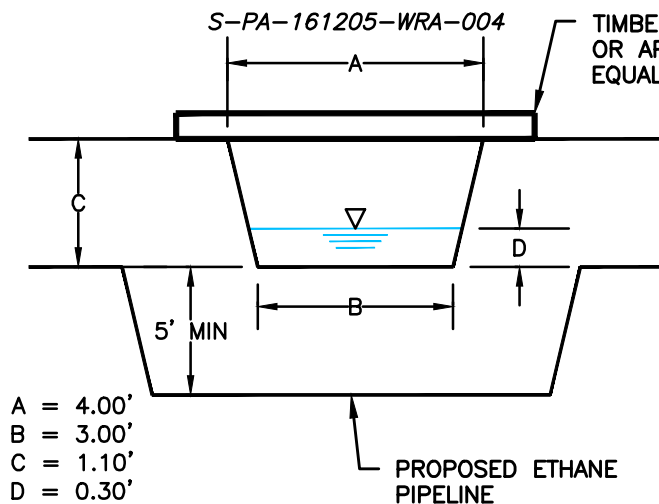


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

**FALCON ETHANE PIPELINE SYSTEM**

**HOUSTON TO JUNCTION**

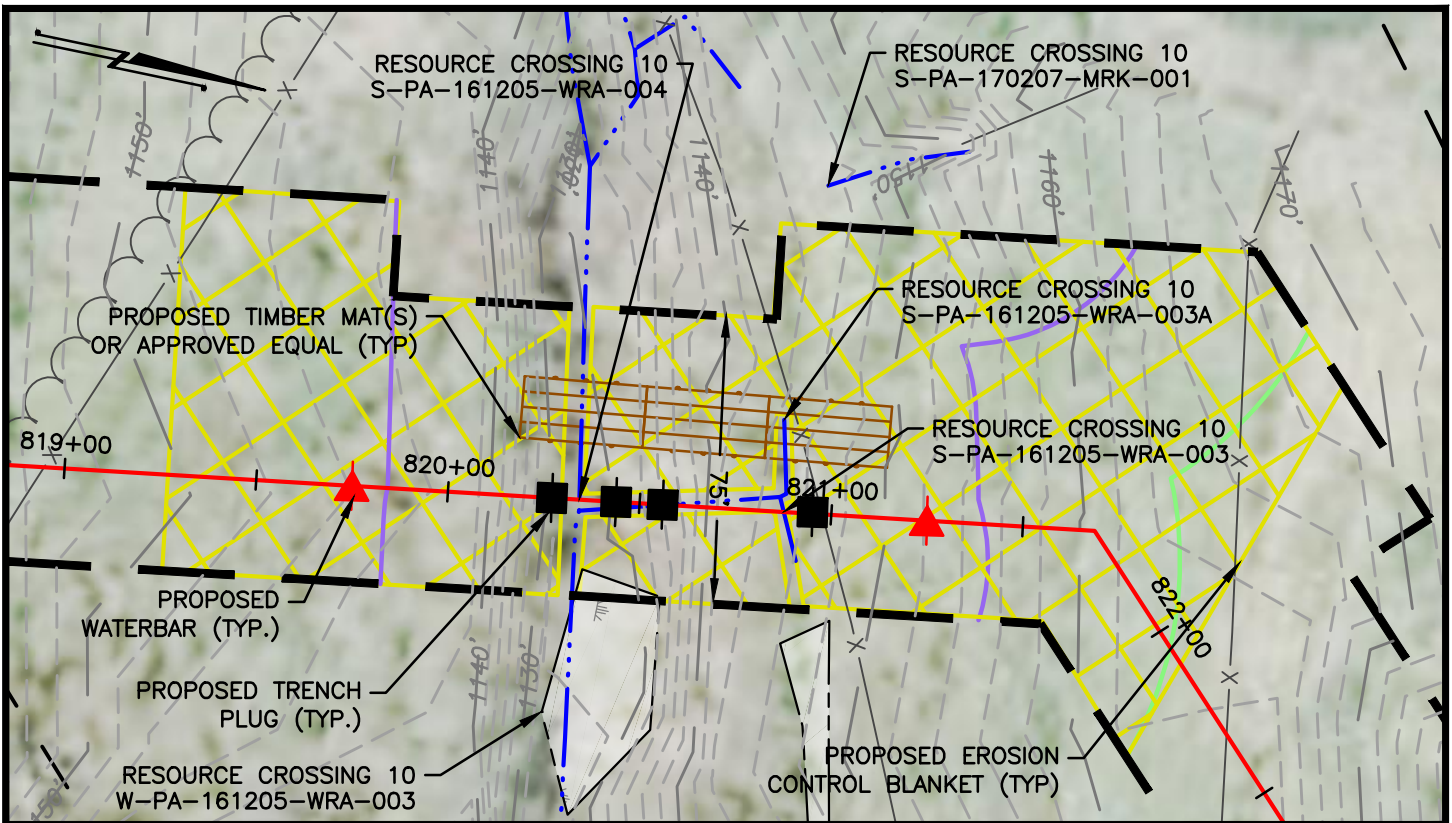
**SS060 - RESOURCE CROSSING #10**

FINDLAY TOWNSHIP  
ALLEGHENY COUNTY,

PA

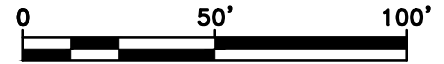
DATE:	09/14/17	SPLC-GOM-AE-SA124559	REV.
BY:	IMM		1

File name: Y:\PROJECTS\1747\SH-1747\1747-SHELL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\070-2-S4-S5-W1.DWG  
Last saved by: ALEXANDER.CURTICE (11/22/2017 9:20 AM) Last Plotted: 2017-12-04 (12/4/2017 9:52 AM)

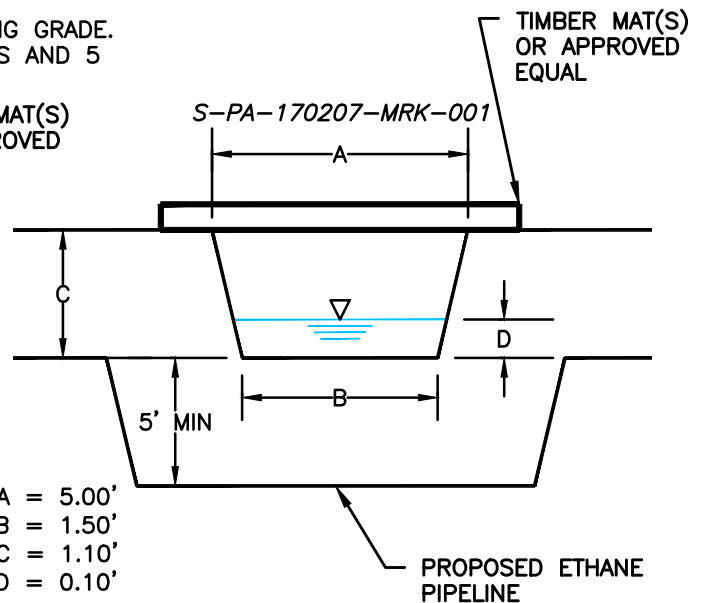
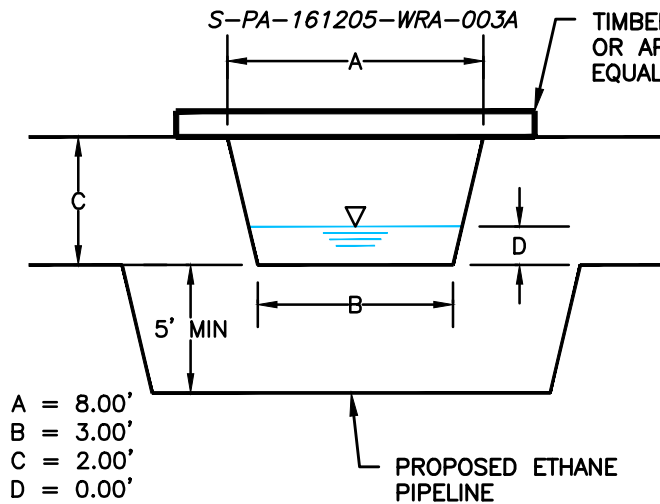


NOTES:

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

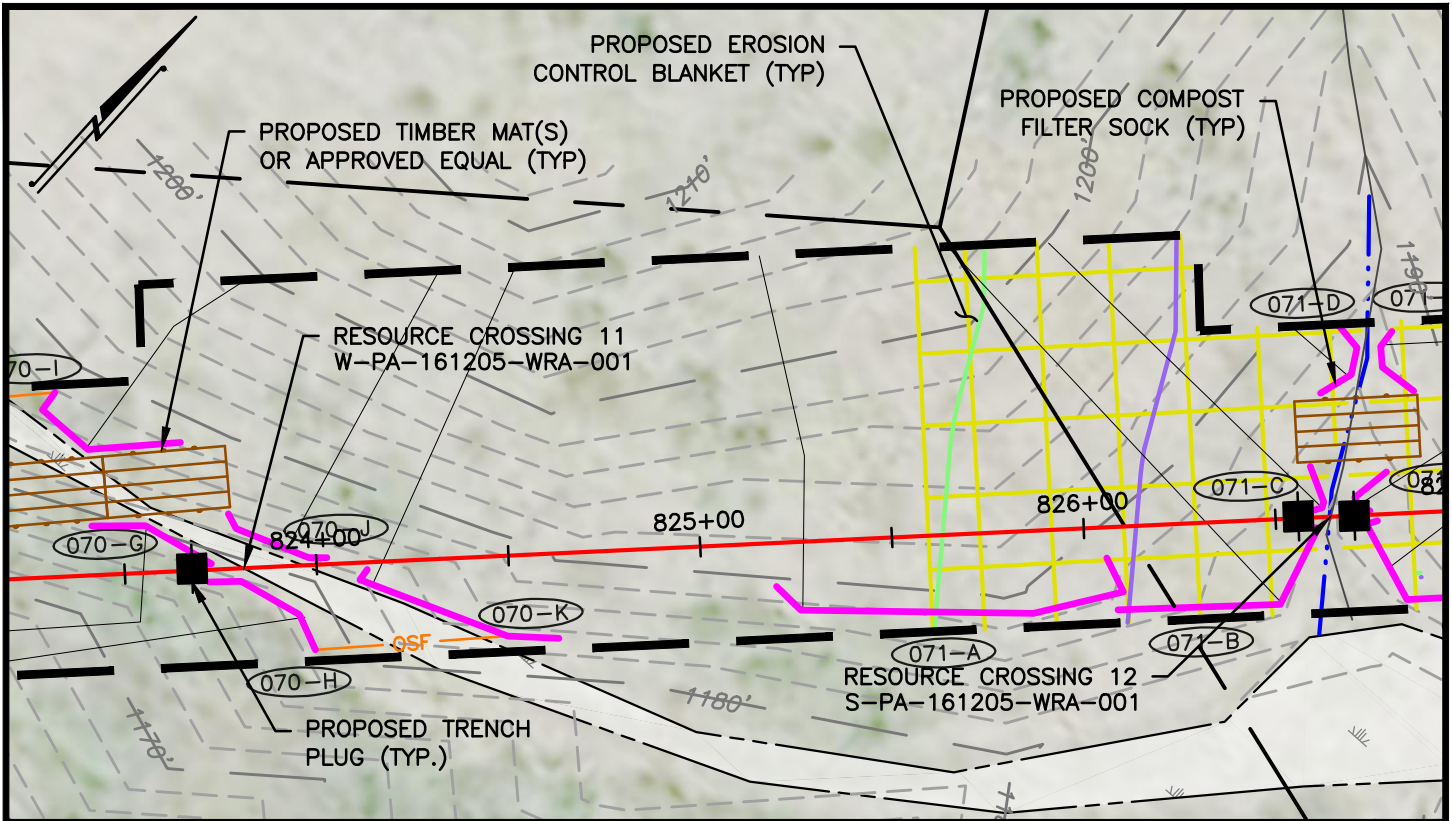
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

FALCON ETHANE PIPELINE SYSTEM  
SCIO TO JUNCTION

SS060A - RESOURCE CROSSING #10  
FINDLAY TOWNSHIP  
ALLEGHENY COUNTY, PA

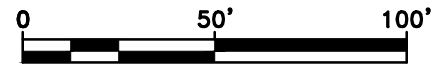
DATE:	09/14/17	SPLC-GOM-AE-SA124559A	REV.
BY:	IMM		1

File: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\071-1-S1\_W1.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 9:23 AM) Last Plotted: 2017-12-04 (12/4/2017 9:54 AM)

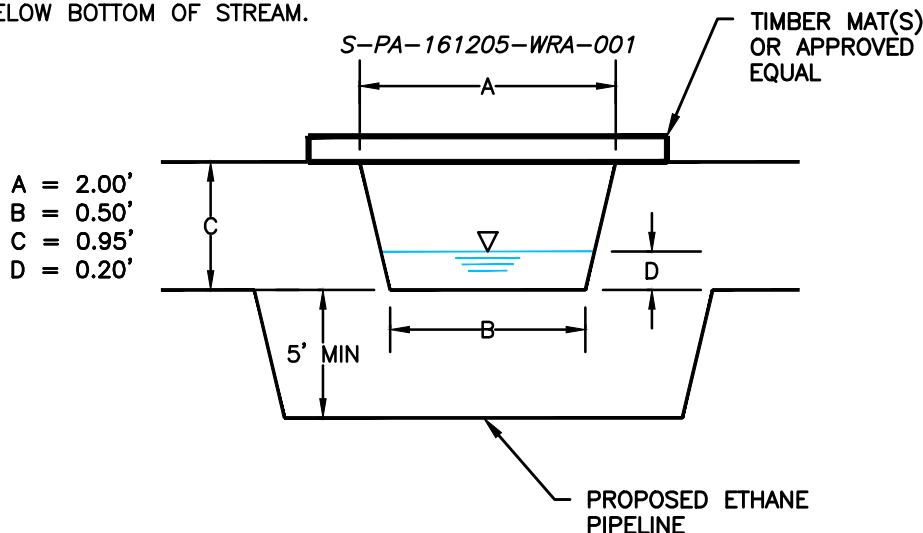


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



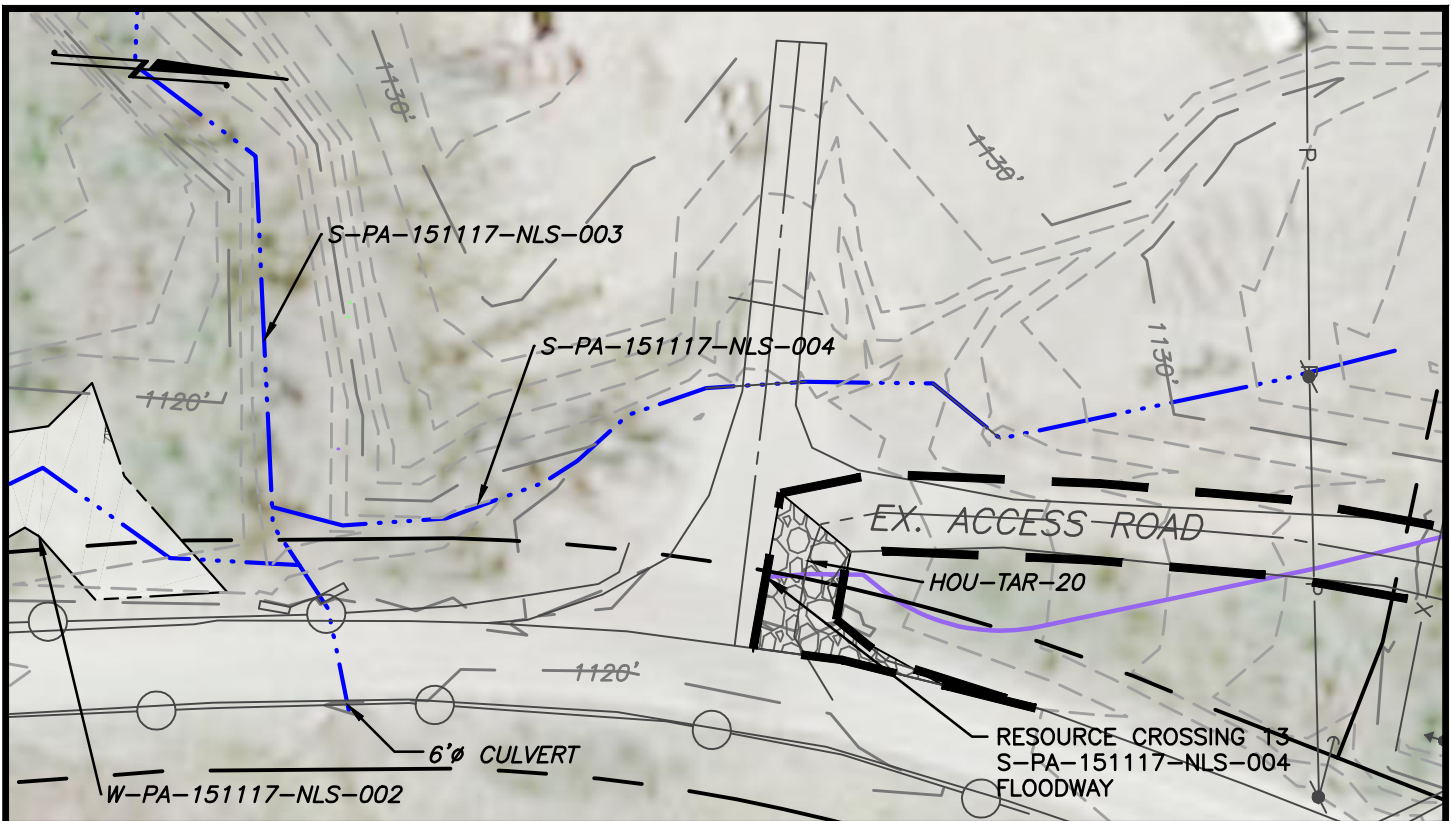
SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	FALCON ETHANE PIPELINE SYSTEM	
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	HOUSTON TO JUNCTION	
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	SS061 - RESOURCE CROSSING #11 & #12	
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						FINDLEY TOWNSHIP ALLEGHENY COUNTY, PA	
						DATE: 09/14/17	REV. 1
						BY: IMM	SPLC-GOM-AE-SA124560

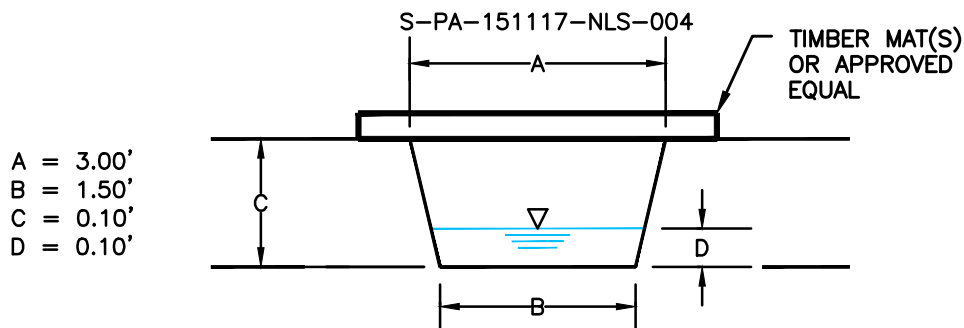
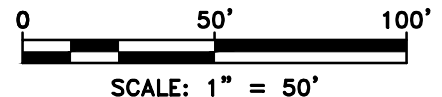


Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\071A-1-FW01.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 9:25 AM) Last Plotted: 2017-12-04 (12/4/2017 9:55 AM)



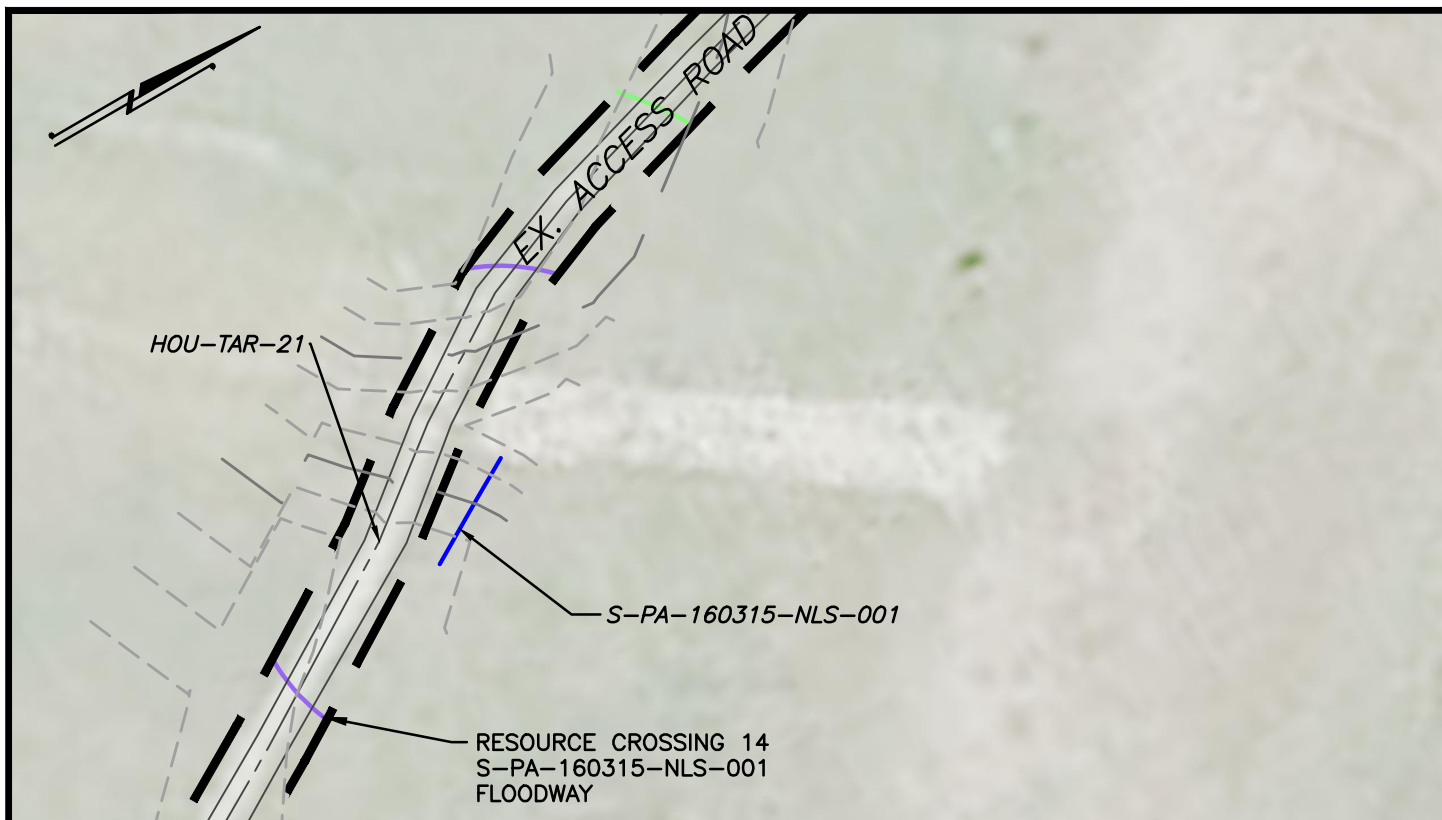
**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



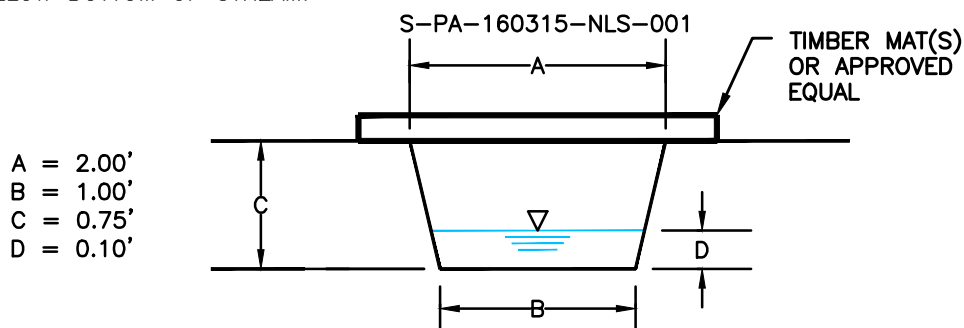
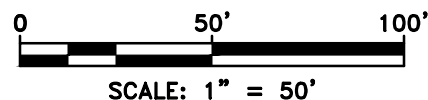
FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS062 - RESOURCE CROSSING #13					
FINDLEY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.					
DATE: 09/14/17			DATE: 09/14/17		
BY: IMM			BY: IMM		
SPLC-GOM-AE-SA124561			SPLC-GOM-AE-SA124561		
REV. 1			REV. 1		

Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\073A-1-FW01.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 9:28 AM) Last Plotted: 2017-12-04 (12/4/2017 9:56 AM)



**NOTES:**

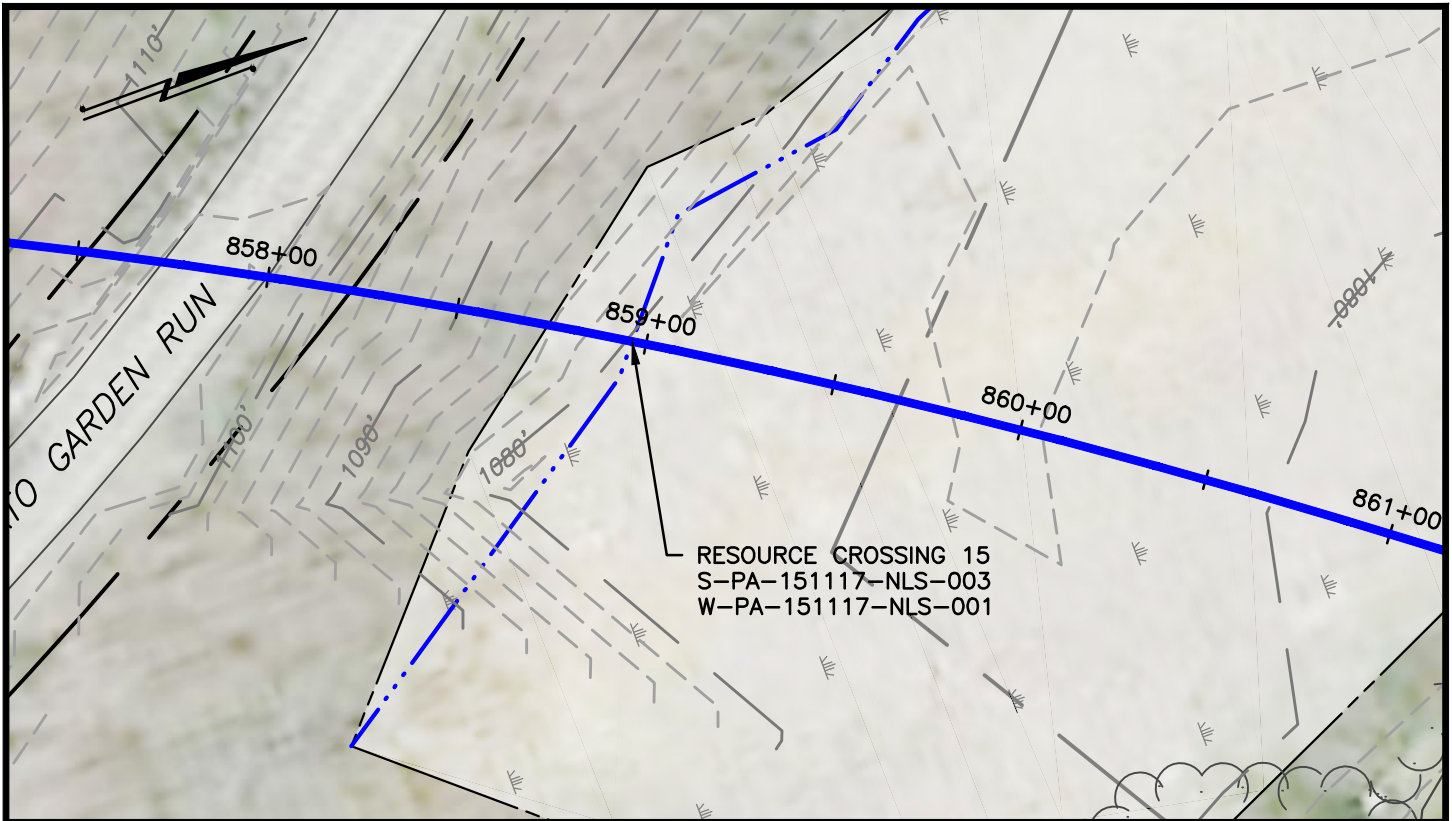
1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS063 - RESOURCE CROSSING #14					
FINDLEY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.					
DATE: 09/14/17			SPLC-GOM-AE-SA124562		
BY: IMM			REV. 1		

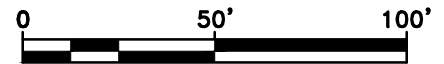


Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\073-1-S1\_W1.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 9:36 AM)  
 Last Plotted: 2017-12-04 (12/4/2017 9:58 AM)

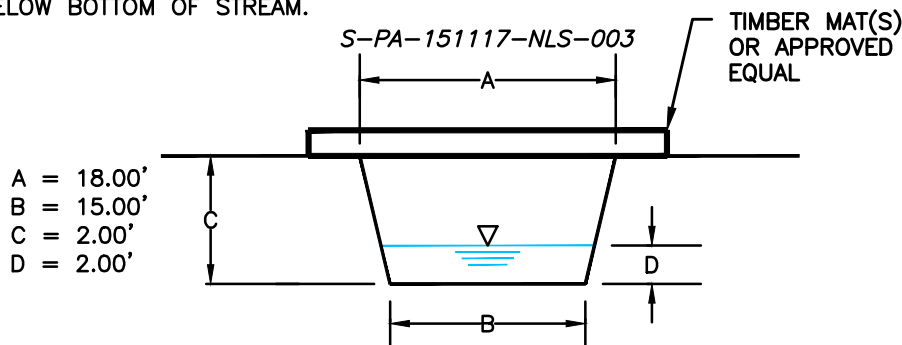


**NOTES:**

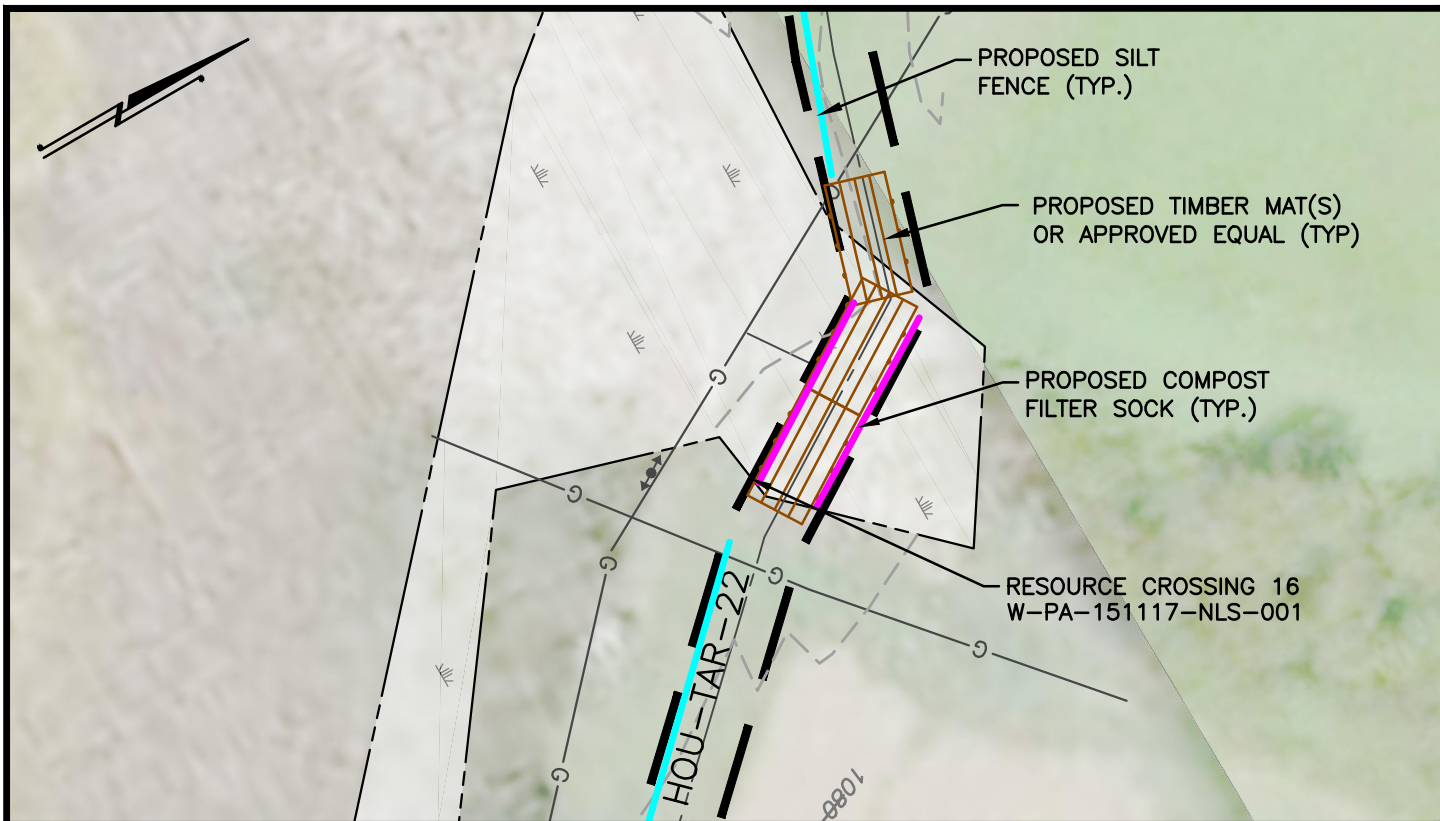
1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'

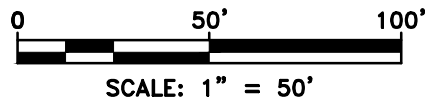


						FALCON ETHANE PIPELINE SYSTEM		
						HOUSTON TO JUNCTION		
						SS064 - RESOURCE CROSSING #15		
						FINDLAY TOWNSHIP		
						ALLEGHENY COUNTY, PA		
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	DATE:	09/14/17	REV. 1
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	BY:	IMM	
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW			
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						SPLC-GOM-AE-SA124563		



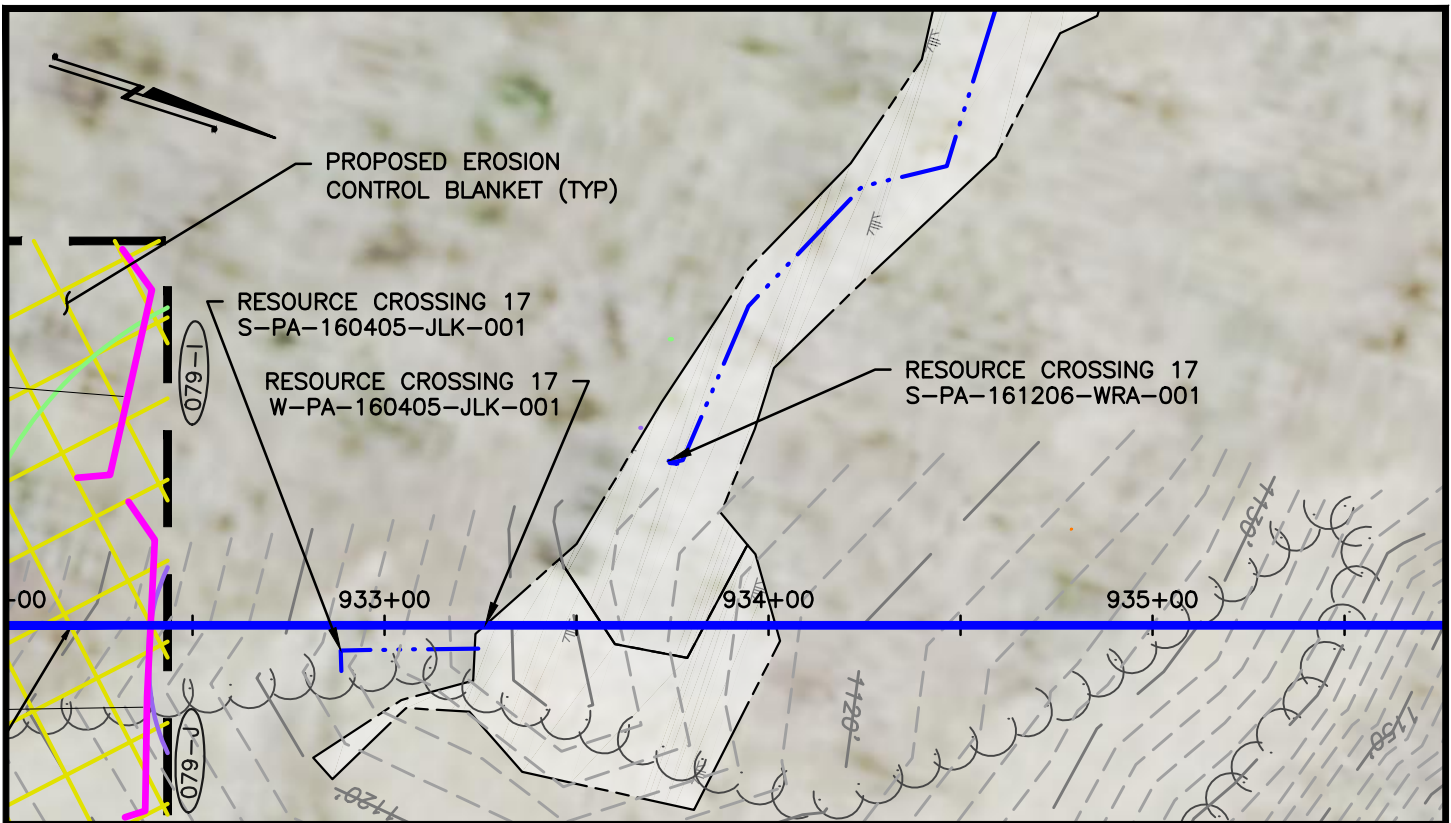
**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



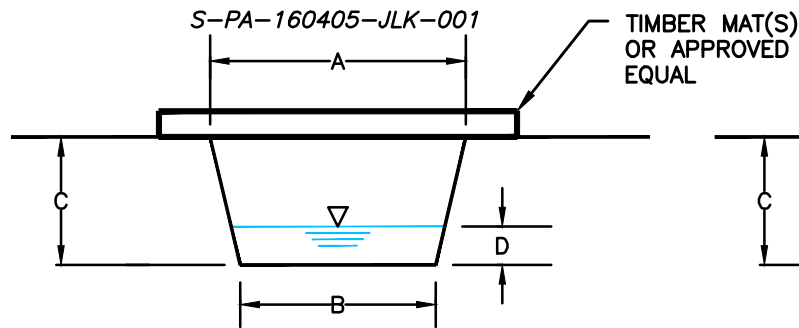
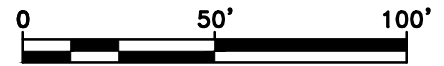
						<b>FALCON ETHANE PIPELINE SYSTEM</b>		
						<b>HOUSTON TO JUNCTION</b>		
						<b>SS065 - RESOURCE CROSSING # 16</b>		
						<b>FINDLEY TOWNSHIP</b>		
						<b>ALLEGHENY COUNTY, PA</b>		
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	<b>DATE: 09/14/17</b>		
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	<b>BY: IMM</b>		
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	<b>SPLC-GOM-AE-SA124564</b>		
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						<b>REV. 1</b>		

Filename: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\080-1-S1\_S2\_W1.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 9:40 AM) Last Plotted: 2017-12-04 (12/4/2017 10:29 AM)

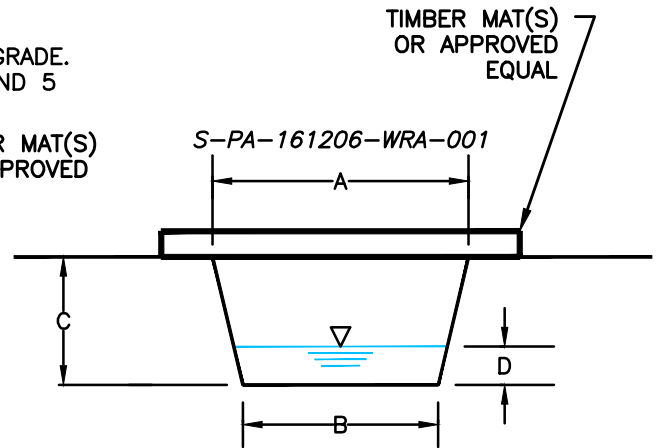


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



A = 1.55'  
 B = 0.75'  
 C = 0.83'  
 D = 0.08'



A = 2.00'  
 B = 1.00'  
 C = 0.95'  
 D = 0.20'

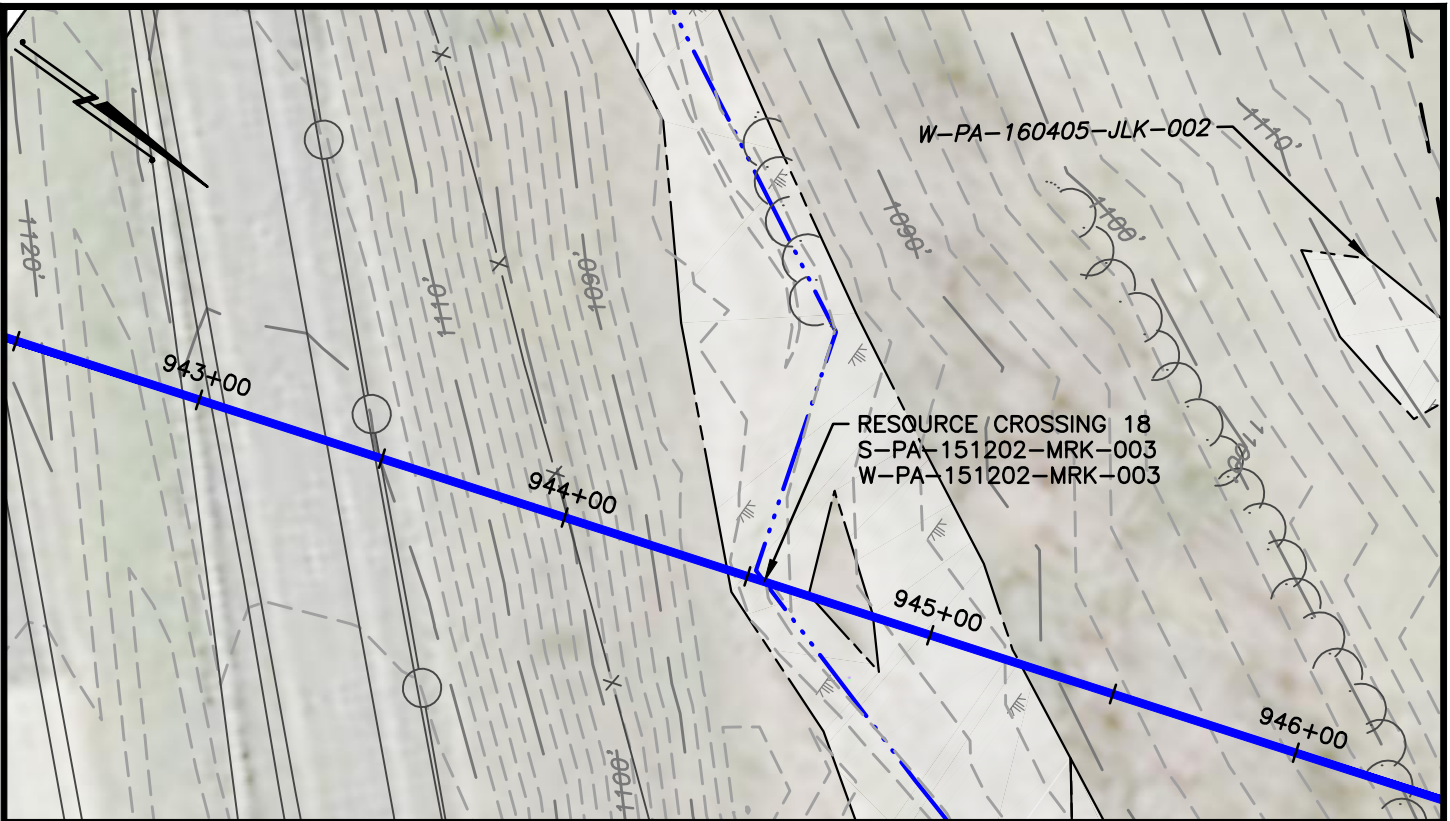
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

FALCON ETHANE PIPELINE SYSTEM		
HOUSTON TO JUNCTION		
SS066 - RESOURCE CROSSING #17		
FINDLAY TOWNSHIP		
ALLEGHENY COUNTY, PA		
DATE:	09/14/17	REV. 1
BY:	IMM	SPLC-GOM-AE-SA124565

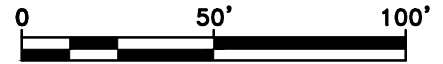


Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\081-1-1-S1\_W1.DWG  
Last saved by: ALEXANDER.CURTICE (11/22/2017 9:47 AM) Last Plotted: 2017-12-04 (12/4/2017 10:31 AM)

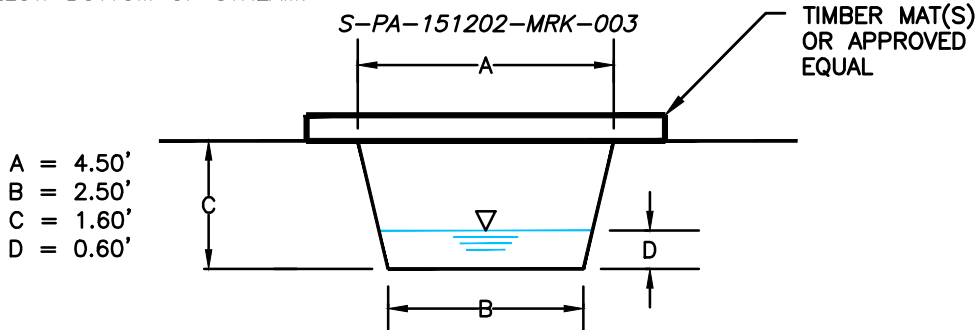


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

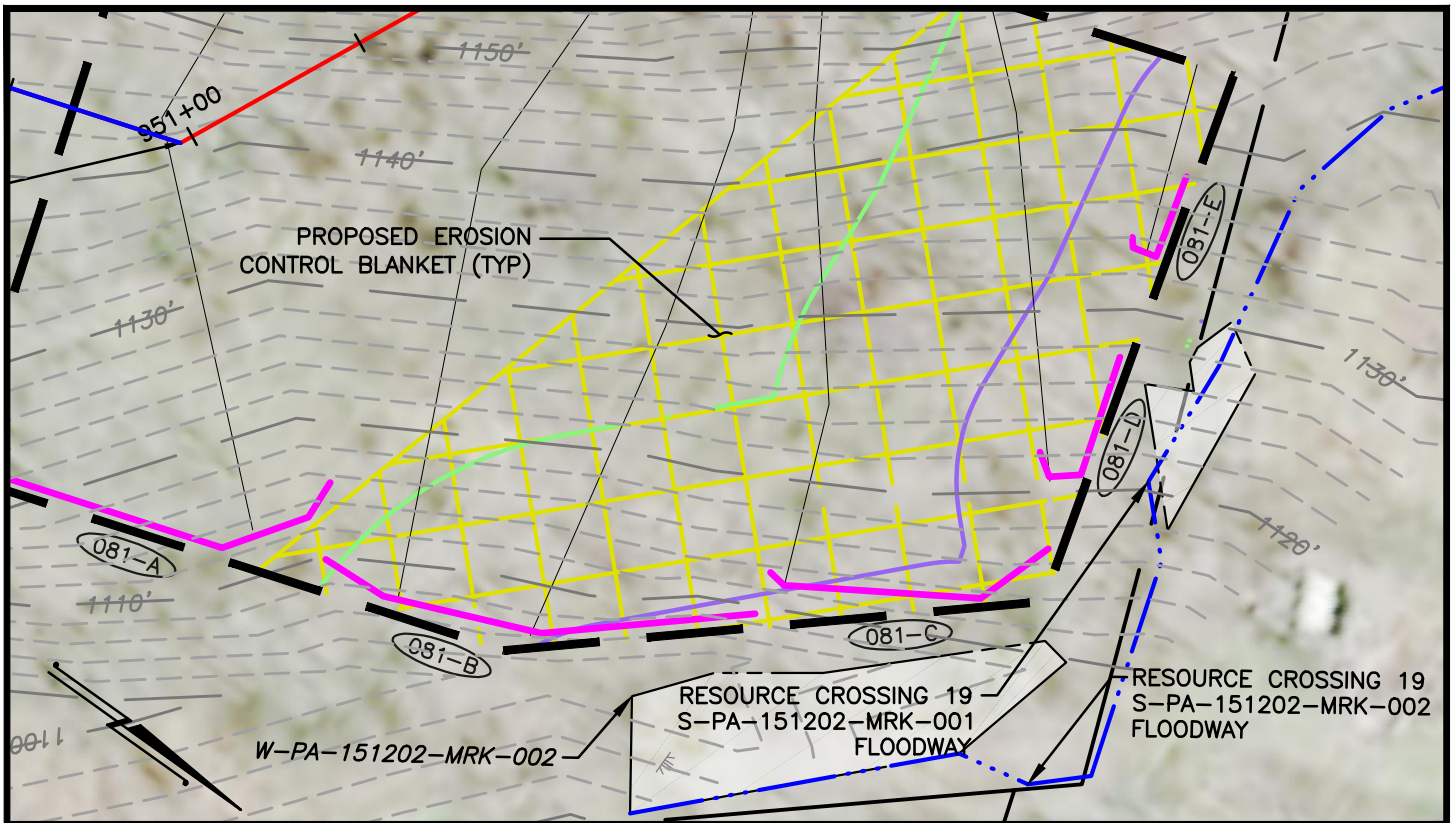
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

**FALCON ETHANE PIPELINE SYSTEM  
HOUSTON TO JUNCTION**

**SS067 - RESOURCE CROSSING #18  
FINDLAY TOWNSHIP  
ALLEGHENY COUNTY, PA**

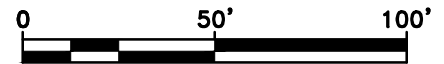
DATE:	09/14/17	SPLC-GOM-AE-SA124566	REV.
BY:	IMM		1

File name: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\081-2-S2-S3.DWG  
 Last saved by: ALEXANDER.CURTICE (11/22/2017 9:53 AM) Last Plotted: 2017-12-04 (12/4/2017 10:32 AM)

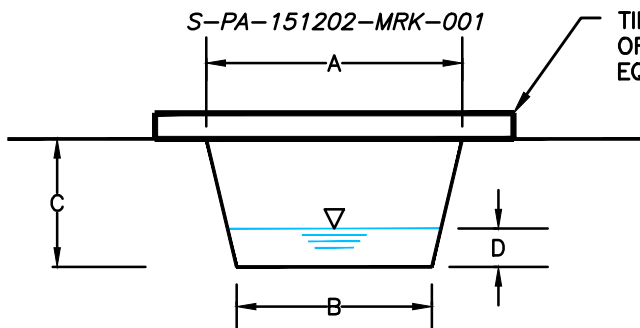


#### NOTES:

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.

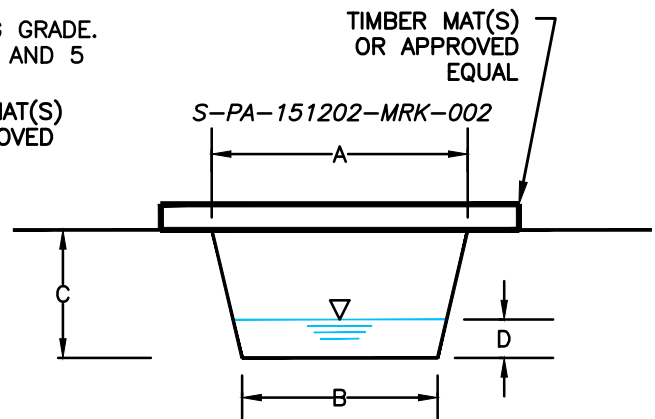


SCALE: 1" = 50'



A = 3.00'  
 B = 1.00'  
 C = 1.30'  
 D = 0.30'

A = 4.00'  
 B = 2.00'  
 C = 2.40'  
 D = 0.40'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

#### FALCON ETHANE PIPELINE SYSTEM

#### HOUSTON TO JUNCTION

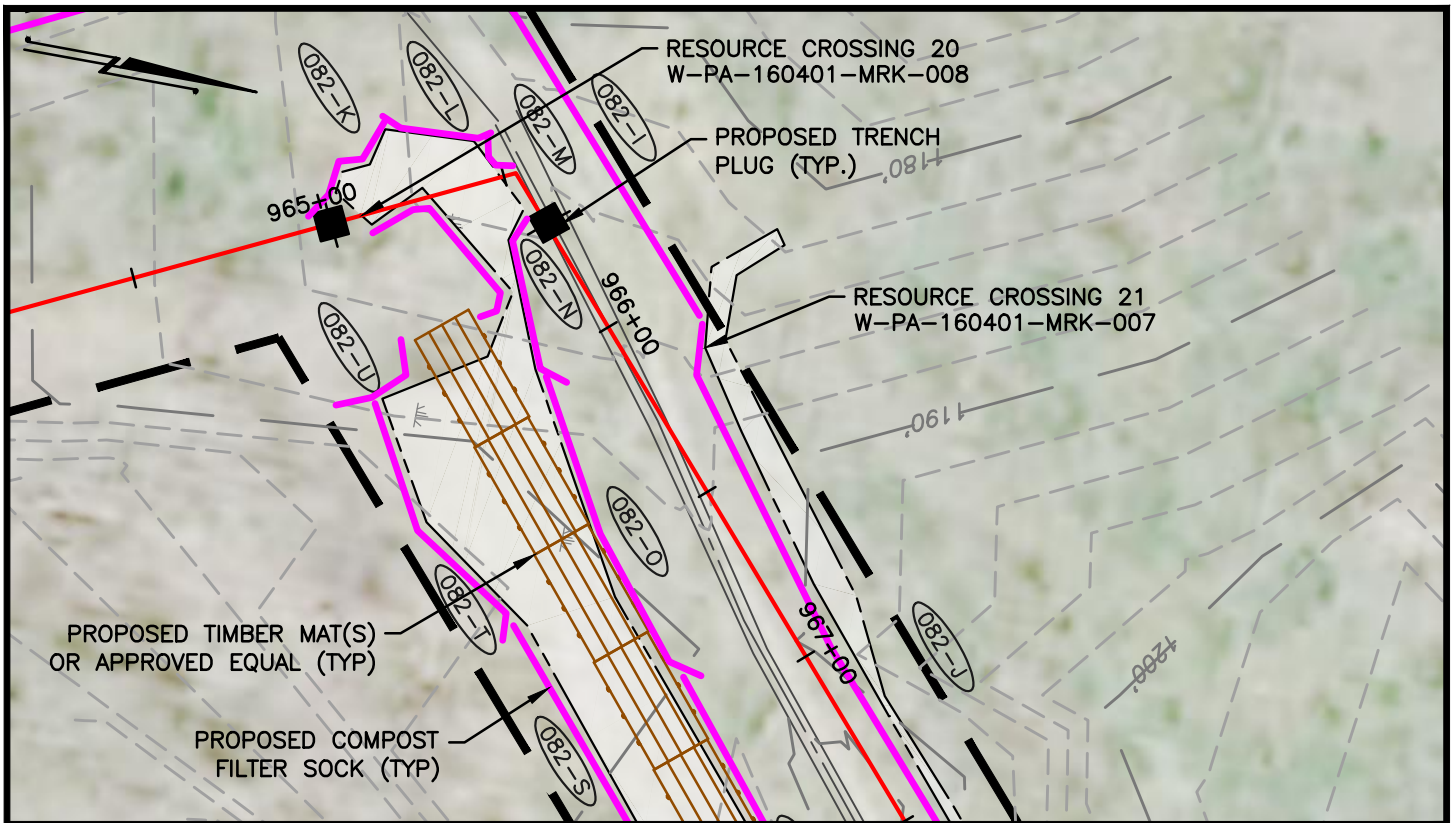
#### SS068 - RESOURCE CROSSING #19

FINDLAY TOWNSHIP  
 ALLEGHENY COUNTY,

PA

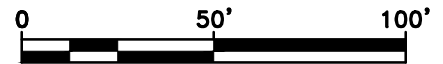
DATE:	09/14/17	SPLC-GOM-AE-SA124567	REV.
BY:	IMM		1

Filename: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\082-1-1-W1\_W2.DWG  
 Last saved by: TASHINA MCKINNEY (10/27/2017 12:01 PM) Last Plotted: 2017-12-04 (12/4/2017 10:34 AM)



**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.

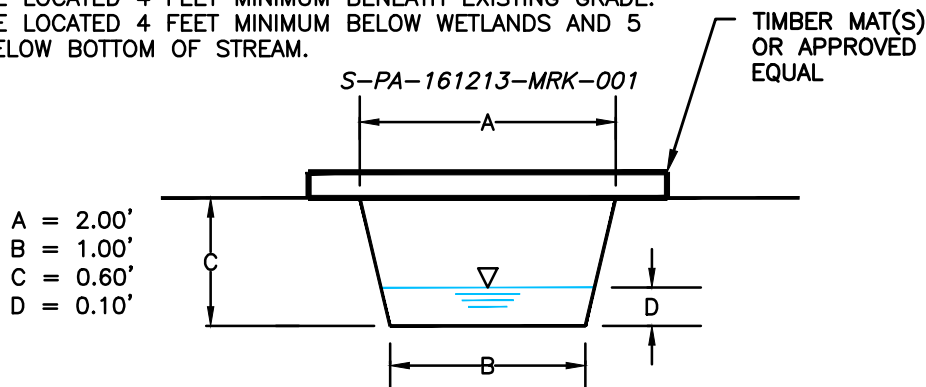


						<b>FALCON ETHANE PIPELINE SYSTEM</b>	
						<b>HOUSTON TO JUNCTION</b>	
						<b>SS069 - RESOURCE CROSSING #20 &amp; #21</b>	
						<b>FINDLAY TOWNSHIP</b>	
						<b>ALLEGHENY COUNTY, PA</b>	
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	DATE:	09/14/17
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	BY:	IMM
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	SPLC-GOM-AE-SA124568	
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						REV.	1





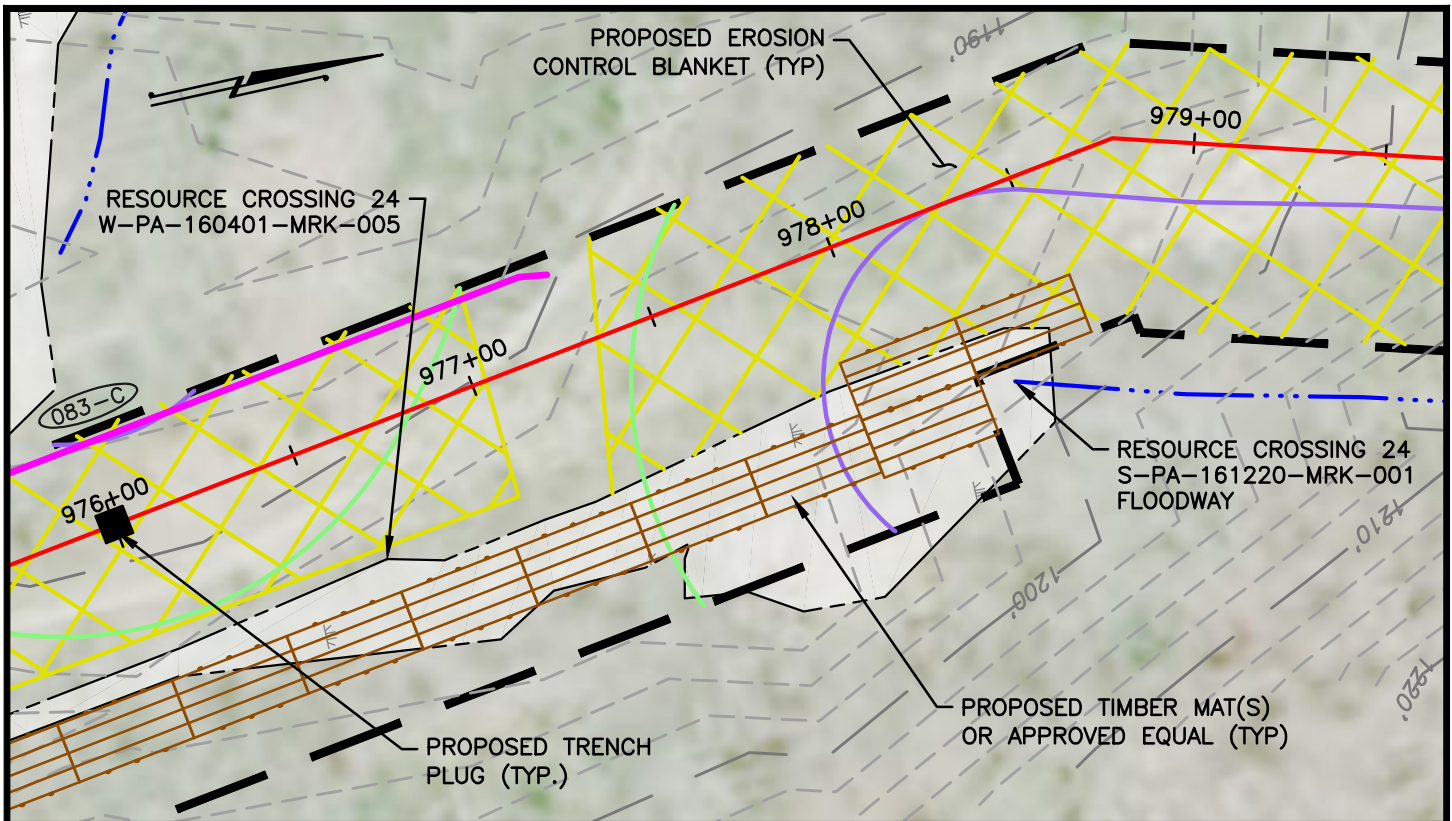
**SCALE: 1" = 50'**



THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

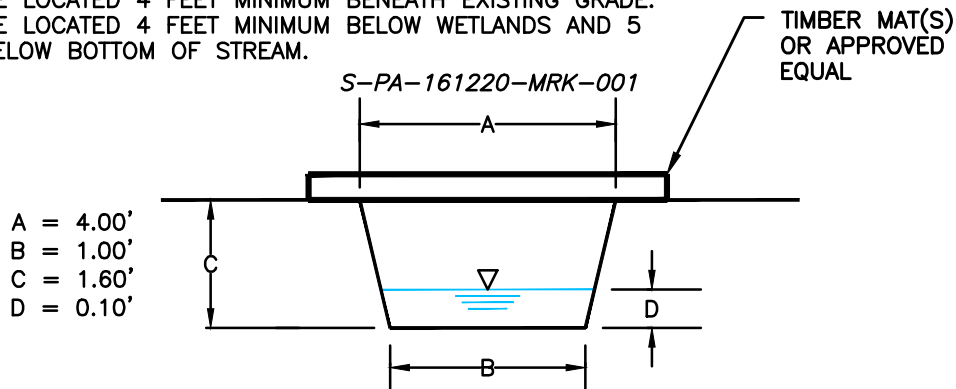


File name: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\083-3-W3\_S2.DWG  
Last saved by: ALEXANDER.CURTICE (11/27/2017 9:50 AM) Last Plotted: 2017-12-04 (12/4/2017 10:38 AM)



**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

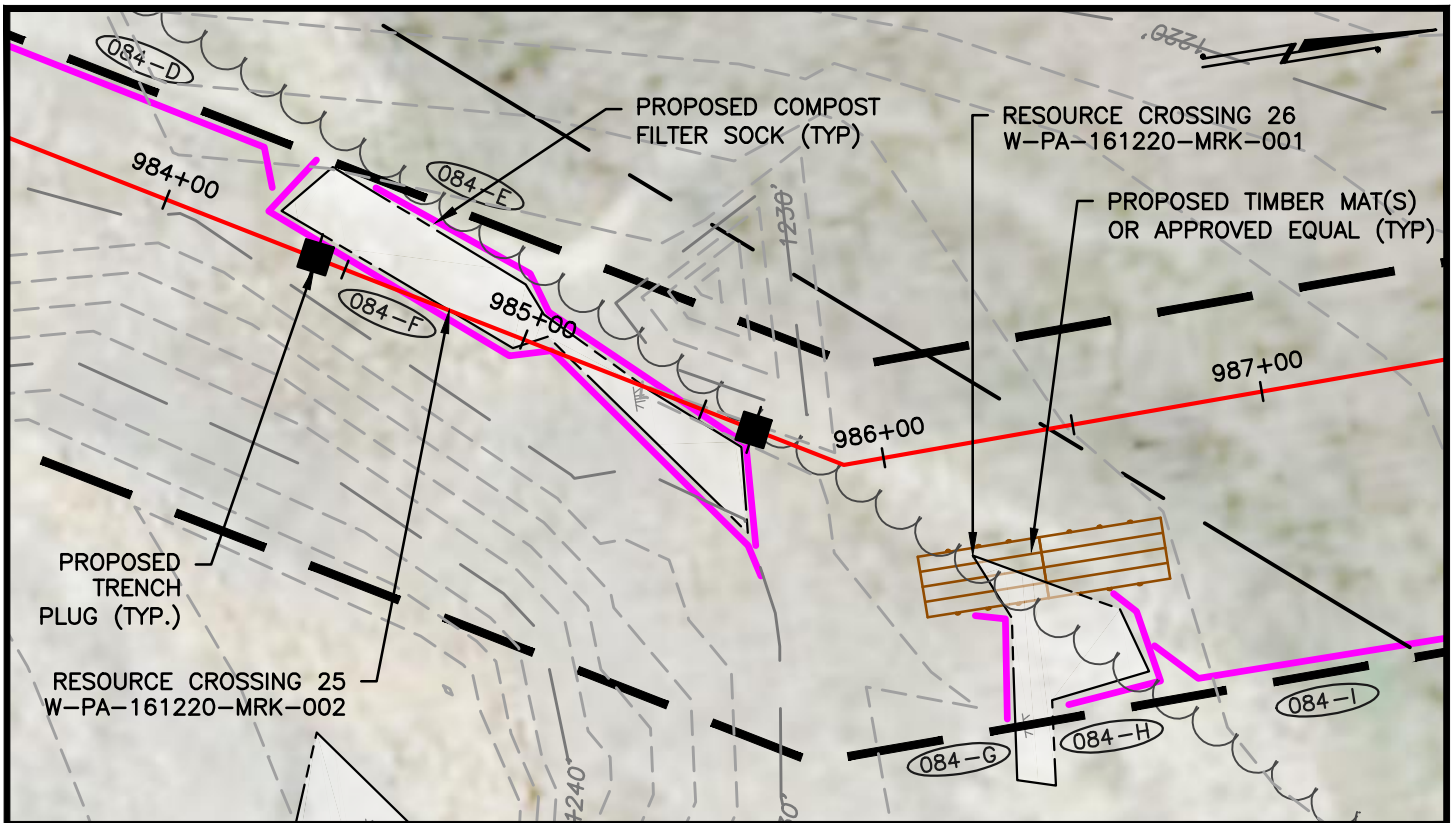
**FALCON ETHANE PIPELINE SYSTEM**

**HOUSTON TO JUNCTION**

**SS072 - RESOURCE CROSSING #24**  
**FINDLAY TOWNSHIP**  
**ALLEGHENY COUNTY, PA**

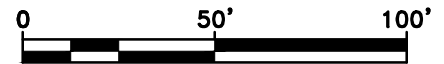
DATE:	09/14/17	SPLC-GOM-AE-SA124571	REV.
BY:	IMM		1

Filename: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\084-1-W1\_W2.DWG  
Last saved by: TASHINA MCKINNEY (10/27/2017 11:47 AM) Last Plotted: 2017-12-04 (12/4/2017 10:39 AM)



**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



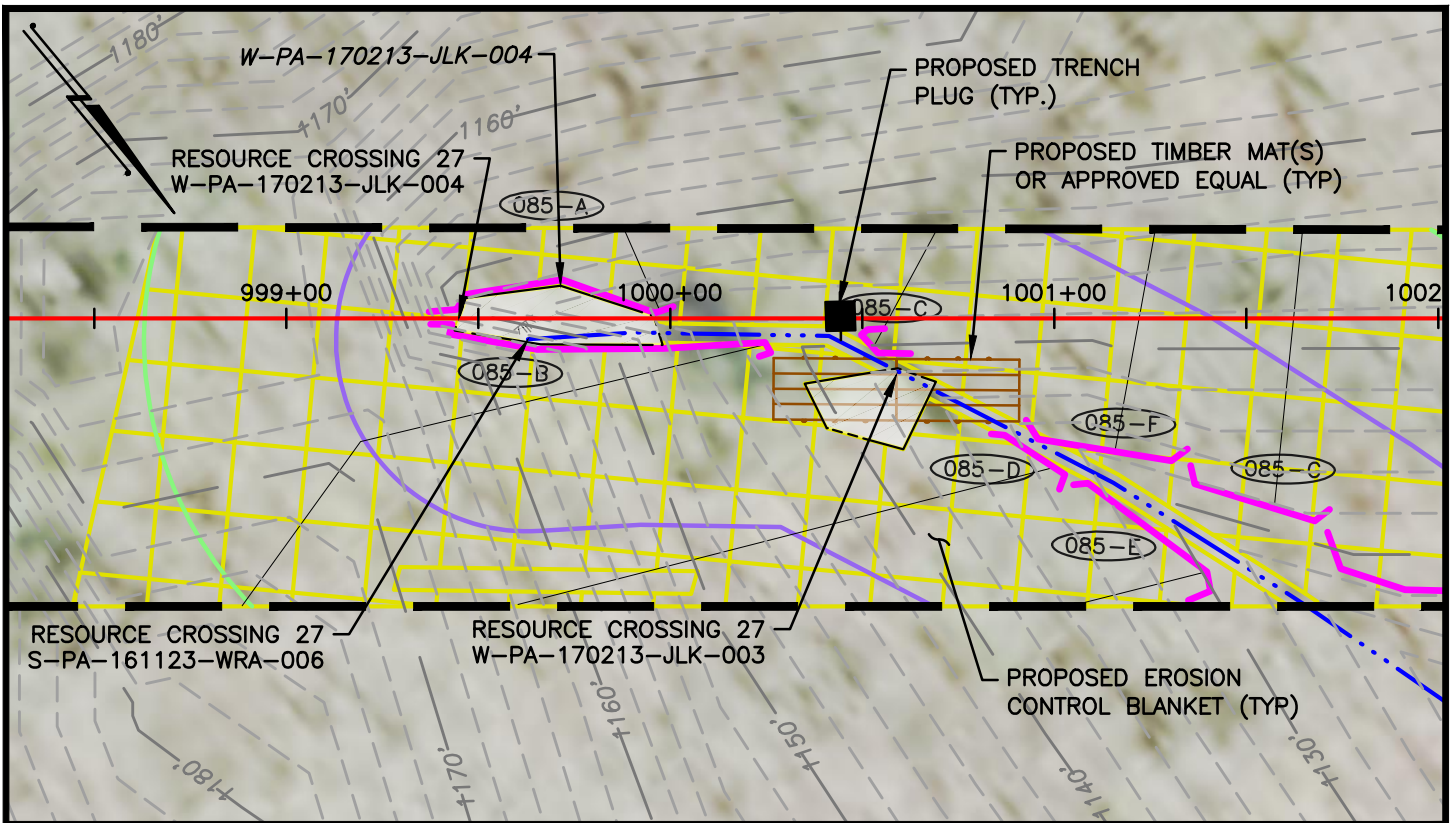
SCALE: 1" = 50'

FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS073 - RESOURCE CROSSING #25 & #26					
FINDLAY TOWNSHIP					
ALLEGHENY COUNTY, PA					
DATE:		09/14/17		SPLC-GOM-AE-SA124572	
BY:		IMM		REV. 1	

REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

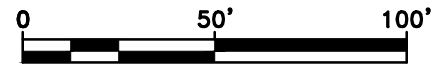
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\085-1-S1\_W1\_W2.DWG  
 Last saved by: LEVI.WOLF02 (11/13/2017 10:36 AM) Last Plotted: 2017-12-04 (12/4/2017 10:40 AM)

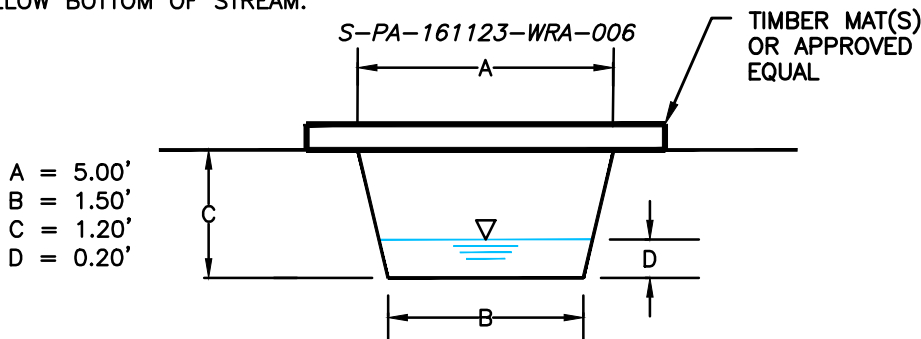


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



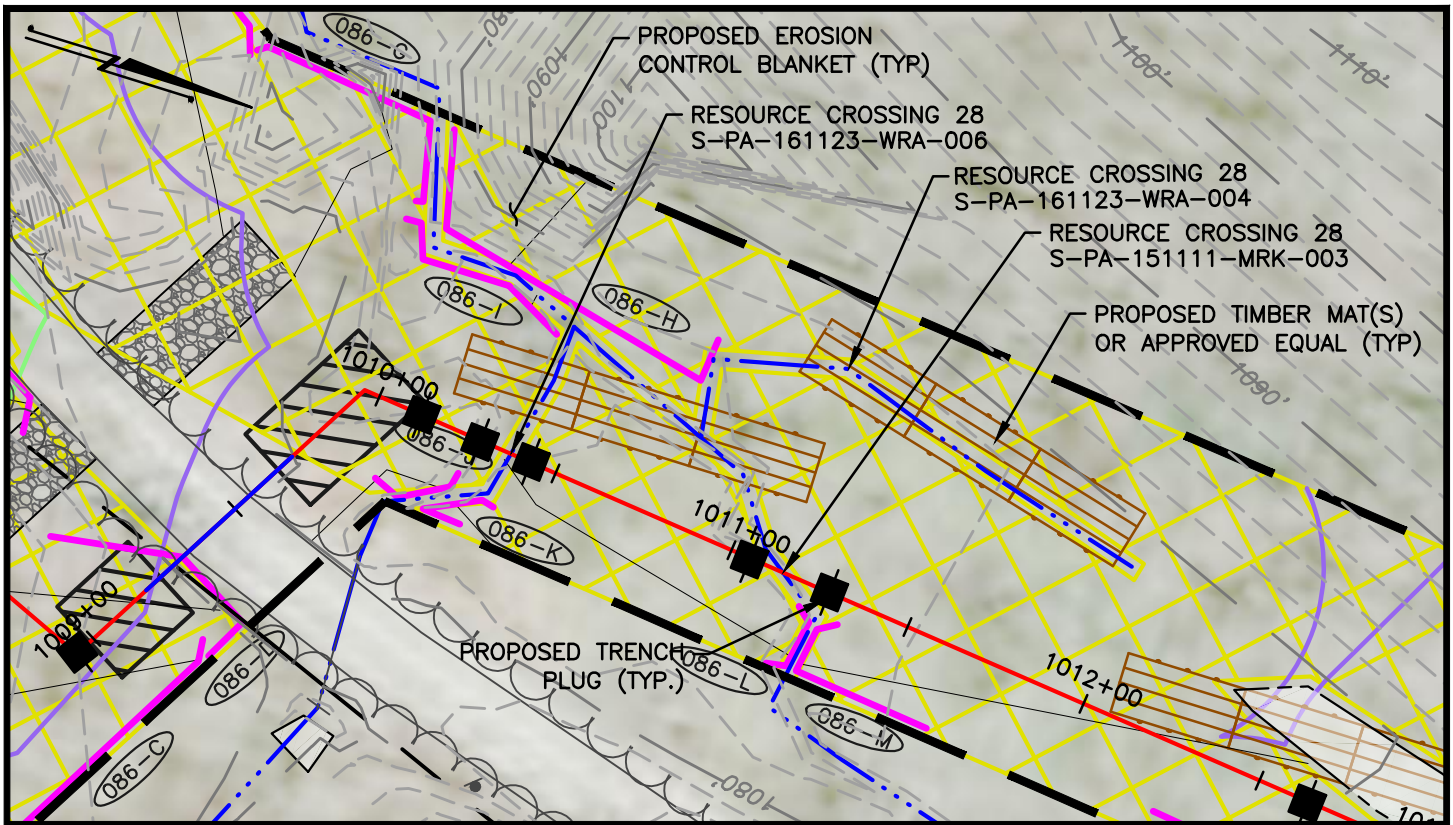
SCALE: 1" = 50'



FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS074 - RESOURCE CROSSING #27					
FINDLAY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.			DATE: 09/14/17		
			BY: IMM		
			SPLC-GOM-AE-SA124573		
			REV. 1		

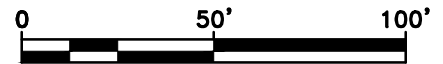


File name: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\086-1-S1\_S2.DWG  
Last saved by: ALEXANDER.CURTICE (11/27/2017 9:53 AM) Last Plotted: 2017-12-04 (12/4/2017 10:42 AM)

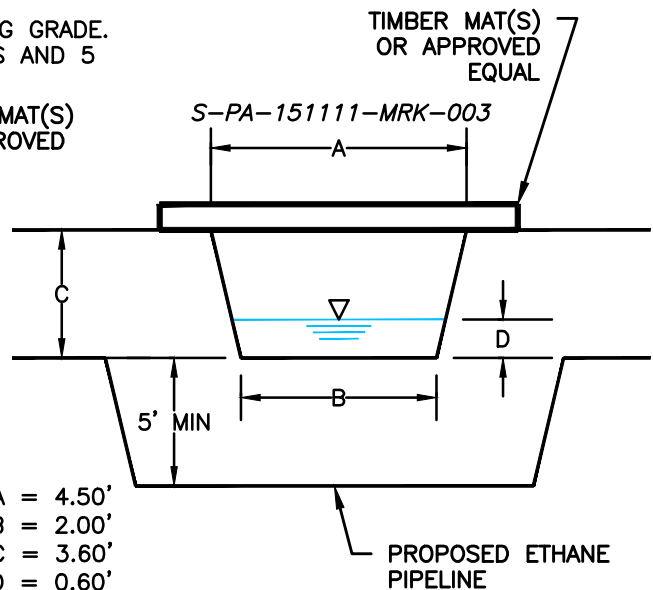
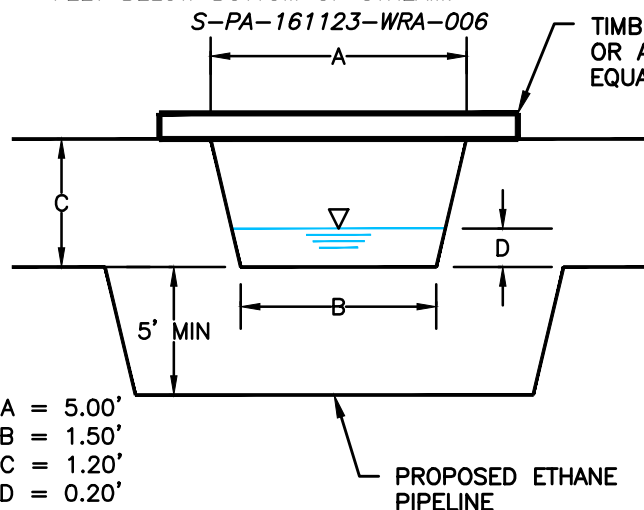


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'

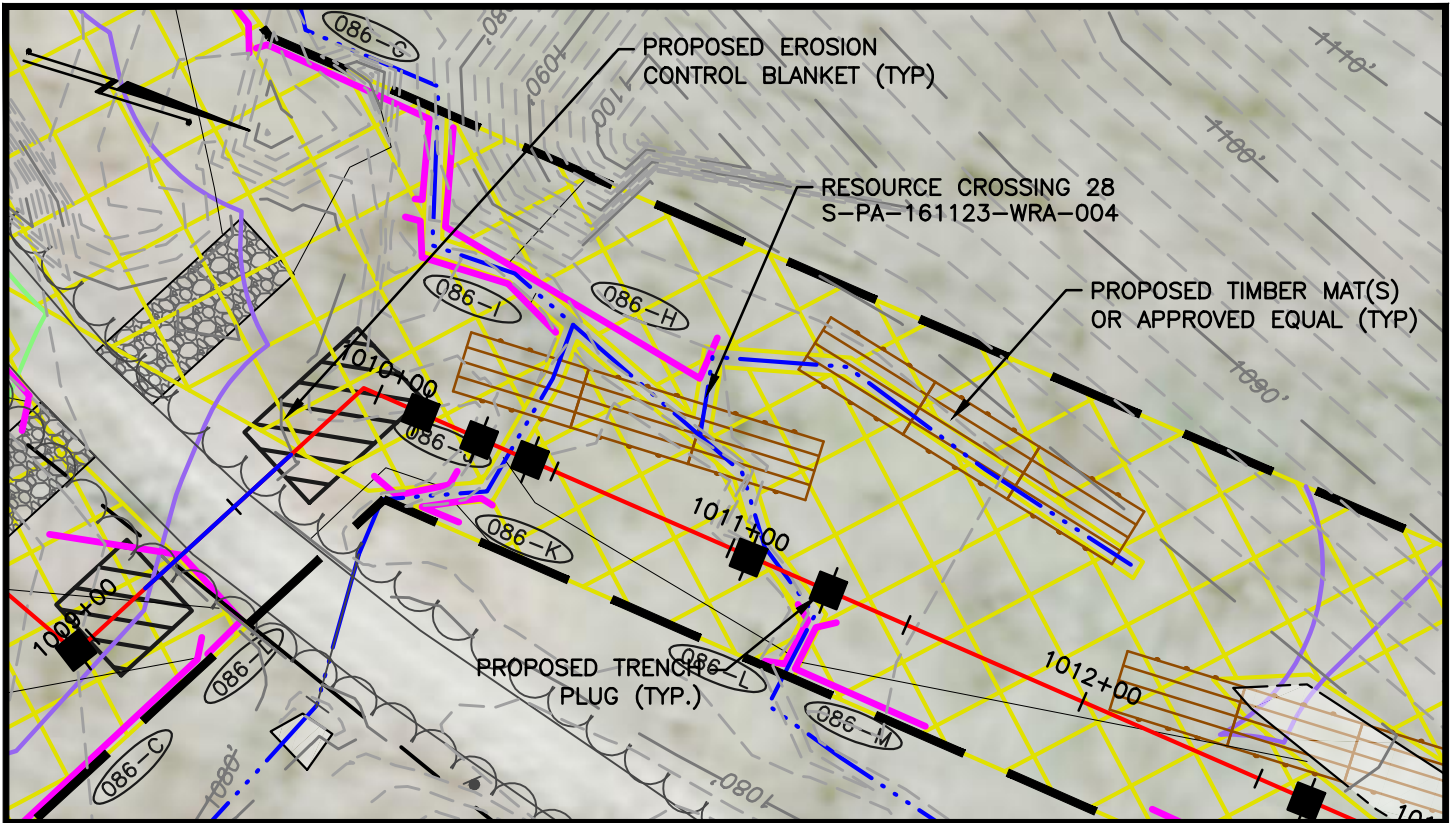


REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

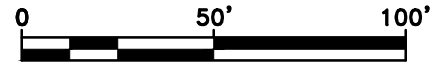
FALCON ETHANE PIPELINE SYSTEM		
HOUSTON TO JUNCTION		
SS075 - RESOURCE CROSSING #28		
FINDLAY TOWNSHIP		
ALLEGHENY COUNTY,		
PA		
DATE:	09/14/17	REV. 1
BY:	IMM	SPLC-GOM-AE-SA124574

Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\086-2-S3.DWG  
 Last saved by: LEVI.WOLFE02 (11/13/2017 11:08 AM) Last Plotted: 2017-12-04 (12/4/2017 10:43 AM)

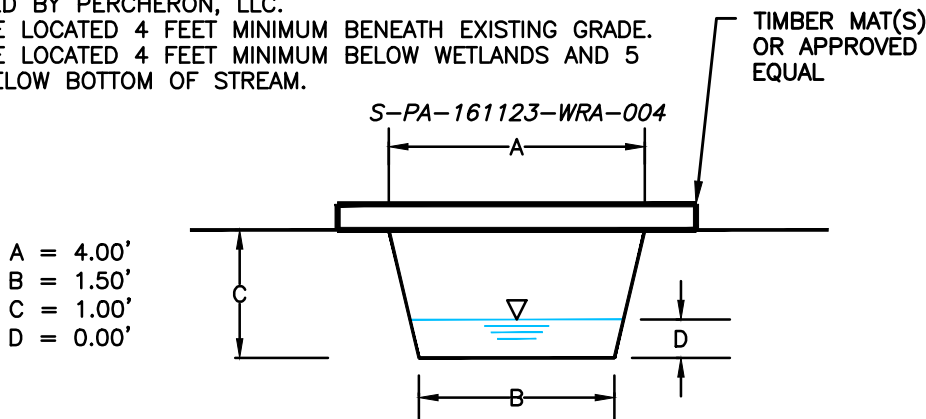


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

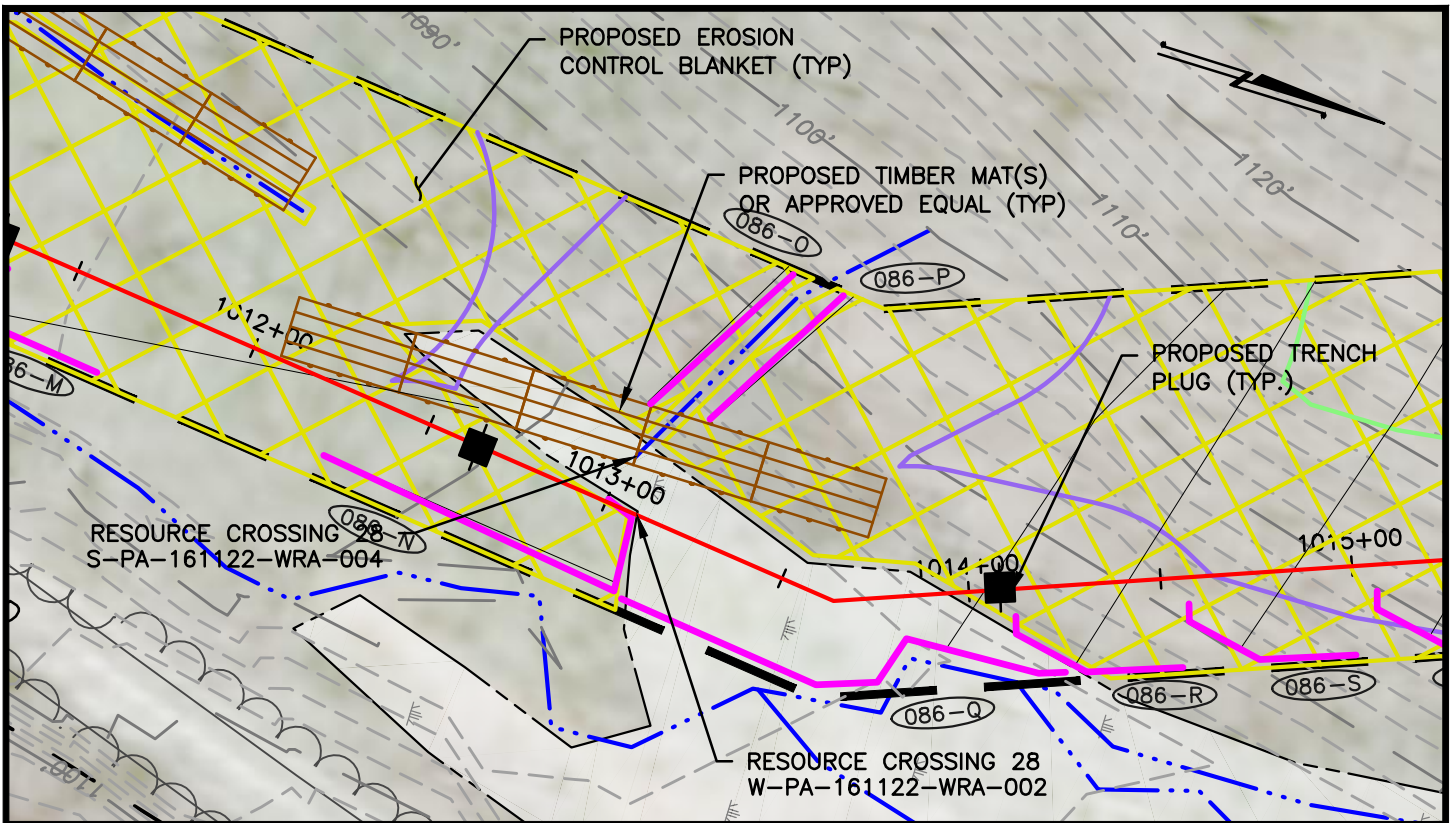
**FALCON ETHANE PIPELINE SYSTEM  
HOUSTON TO JUNCTION**

**SS076 - RESOURCE CROSSING #28  
FINDLAY TOWNSHIP  
ALLEGHENY COUNTY, PA**

DATE:	09/14/17	SPLC-GOM-AE-SA124575	REV. 1
BY:	IMM		

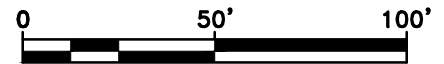


Filename: Y:\PROJECTS\1747\SH-11-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\086-3-SA-W1.DWG  
 Last saved by: LEVI.WOLFE02 (11/13/2017 11:28 AM) Last Plotted: 2017-12-04 (12/4/2017 10:44 AM)

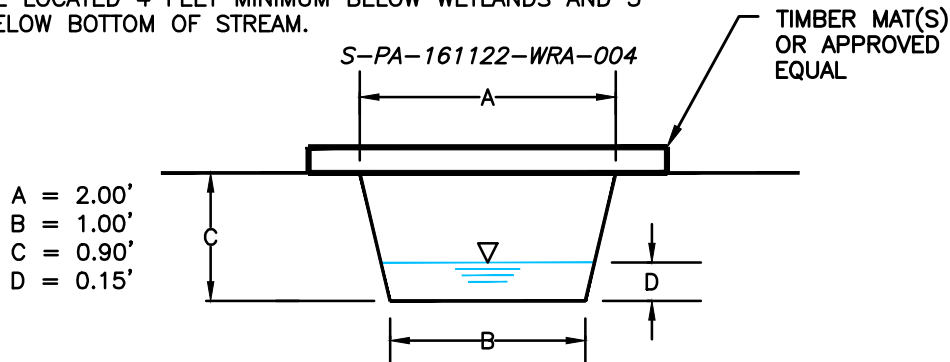


#### NOTES:

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.

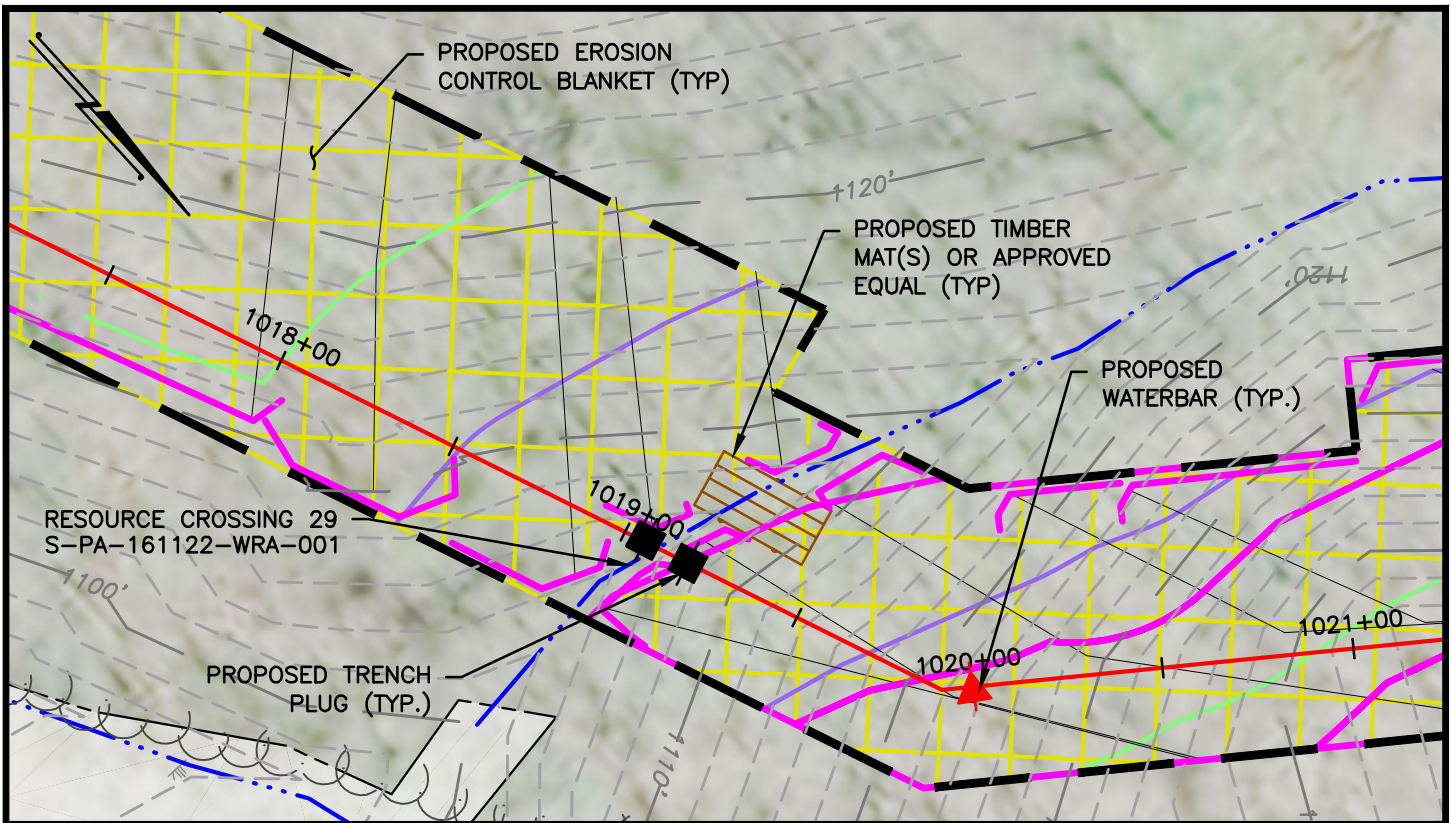


SCALE: 1" = 50'



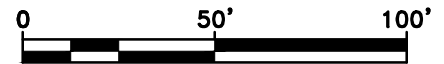
FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS077 - RESOURCE CROSSING #28					
FINDLAY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.					
DATE:		09/14/17	SPLC-GOM-AE-SA124576		REV. 1
BY:		IMM			

Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\087-1-S1.DWG  
 Last saved by: LEVI.WOLFE02 (11/13/2017 11:34 AM) Last Plotted: 2017-12-04 (12/4/2017 10:46 AM)

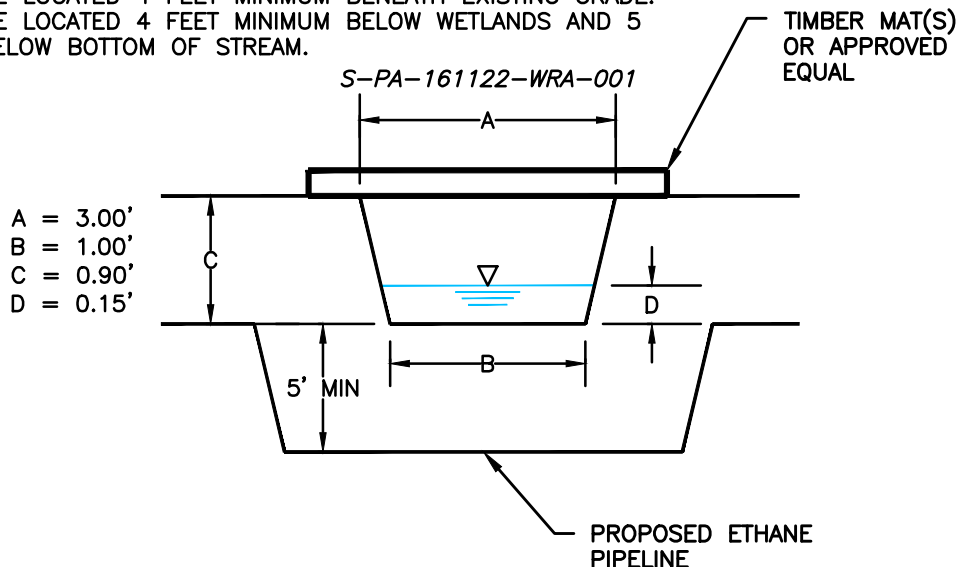


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



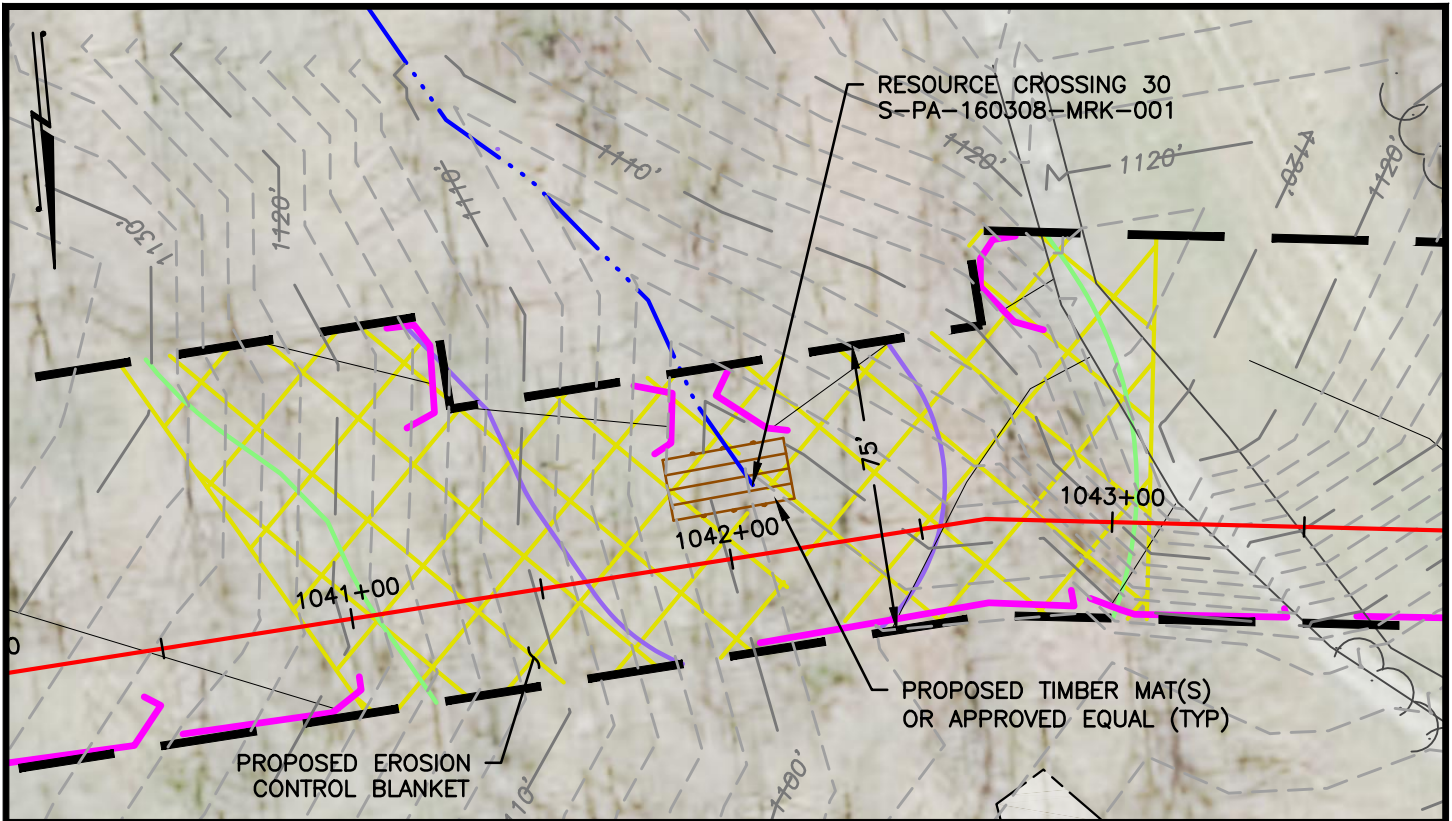
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

FALCON ETHANE PIPELINE SYSTEM		
HOUSTON TO JUNCTION		
SS078 - RESOURCE CROSSING #29		
FINDLAY TOWNSHIP		
ALLEGHENY COUNTY, PA		
DATE:	09/14/17	REV. 1
BY:	IMM	SPLC-GOM-AE-SA124577

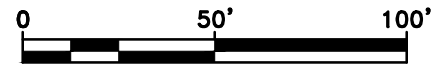


Filename: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\089-1-S1.DWG  
 Last saved by: LEVI.WOLFE02 (11/13/2017 11:41 AM) Last Plotted: 2017-12-04 (12/4/2017 10:47 AM)

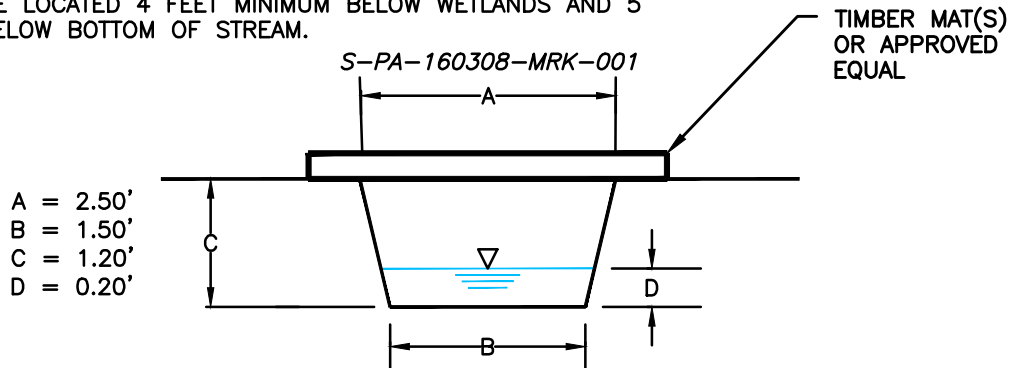


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



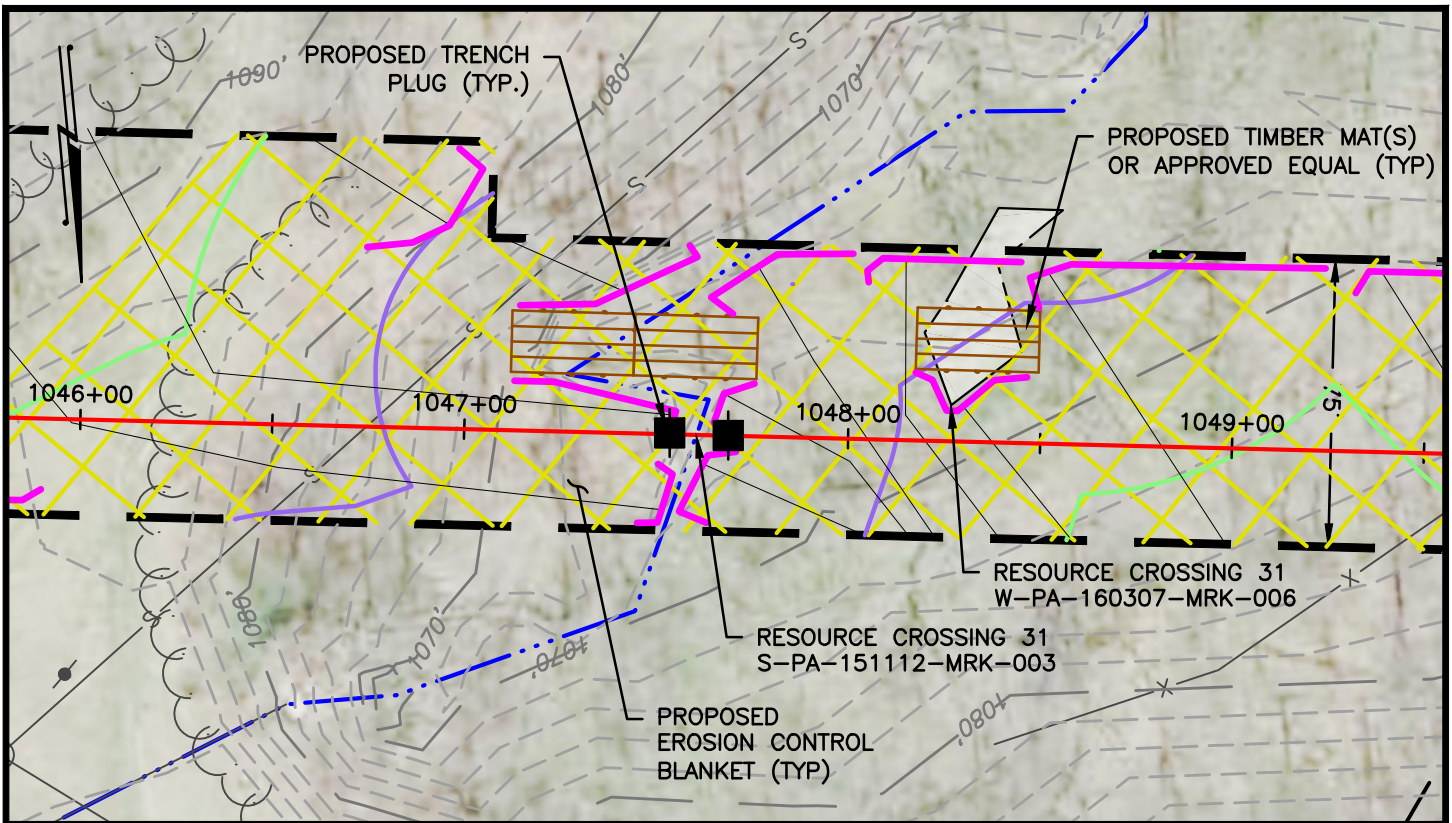
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

FALCON ETHANE PIPELINE SYSTEM		
HOUSTON TO JUNCTION		
SS079 - RESOURCE CROSSING #30		
FINDLAY TOWNSHIP		
ALLEGHENY COUNTY, PA		
DATE:	09/14/17	REV. 1
BY:	IMM	
SPLC-GOM-AE-SA124578		

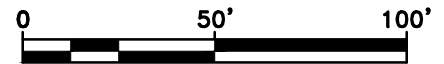


Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\089-2-S2-W1.DWG  
 Last saved by: LEVI.WOLFE02 (11/13/2017 11:51 AM) Last Plotted: 2017-12-04 (12/4/2017 10:48 AM)

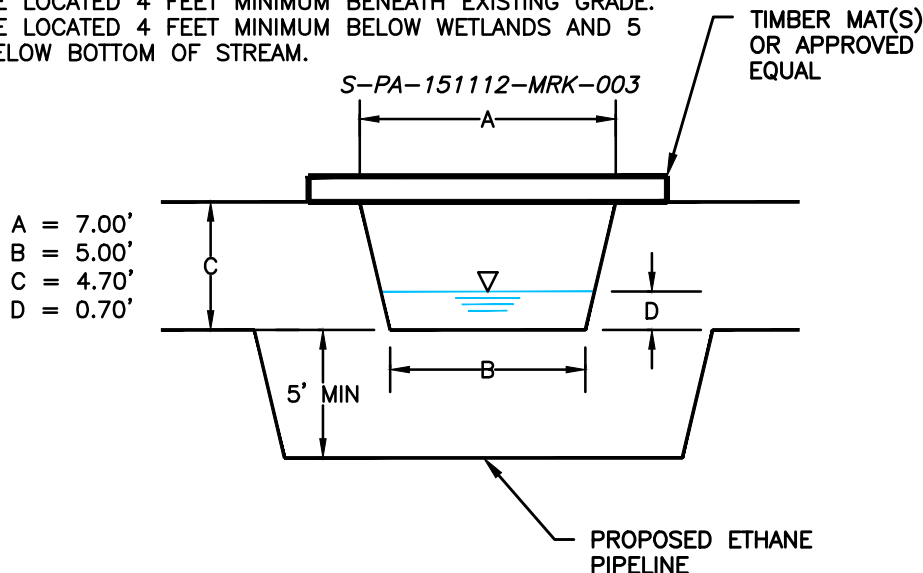


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.

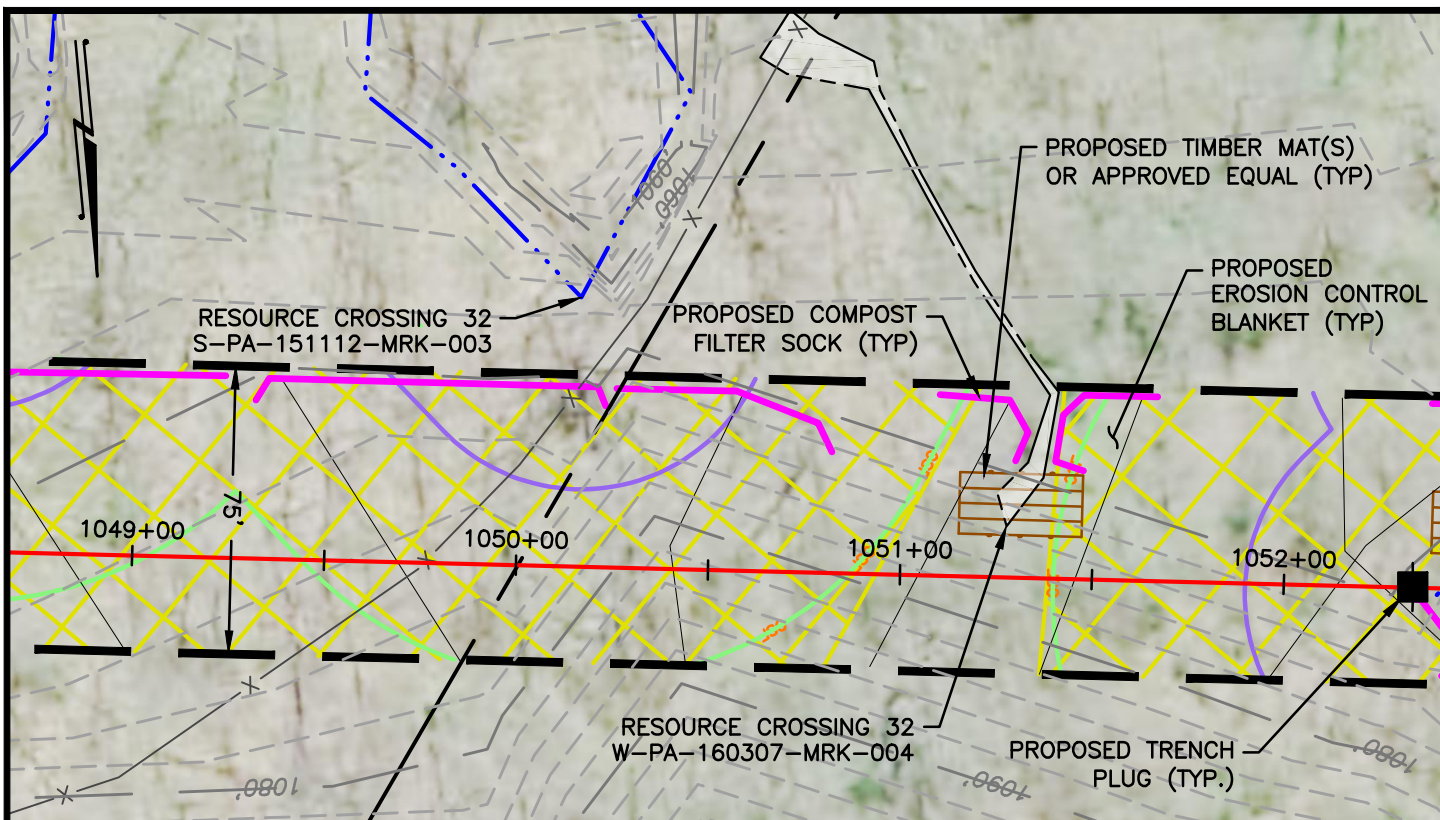


SCALE: 1" = 50'



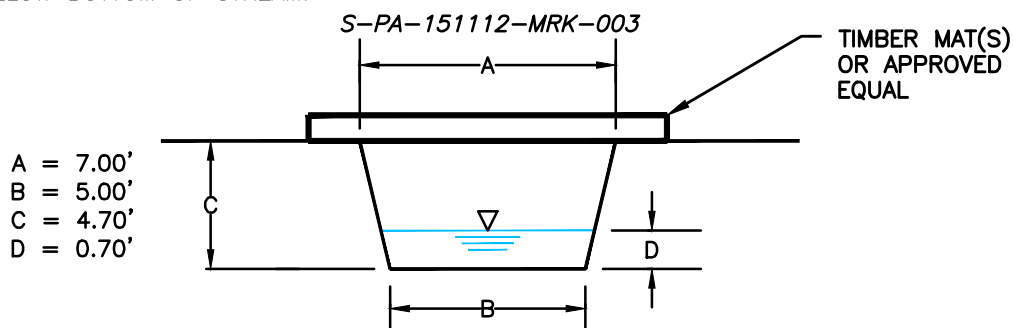
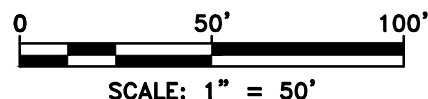
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	FALCON ETHANE PIPELINE SYSTEM		
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	HOUSTON TO JUNCTION		
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	SS080 - RESOURCE CROSSING #31		
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						FINDLAY TOWNSHIP ALLEGHENY COUNTY, PA		
						DATE:	09/14/17	REV. 1
						BY:	IMM	SPLC-GOM-AE-SA124579

Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\089-3-S3\_W2.DWG  
 Last saved by: ALEXANDER.CURTICE (11/27/2017 9:56 AM) Last Plotted: 2017-12-04 (12/4/2017 10:50 AM)



**NOTES:**

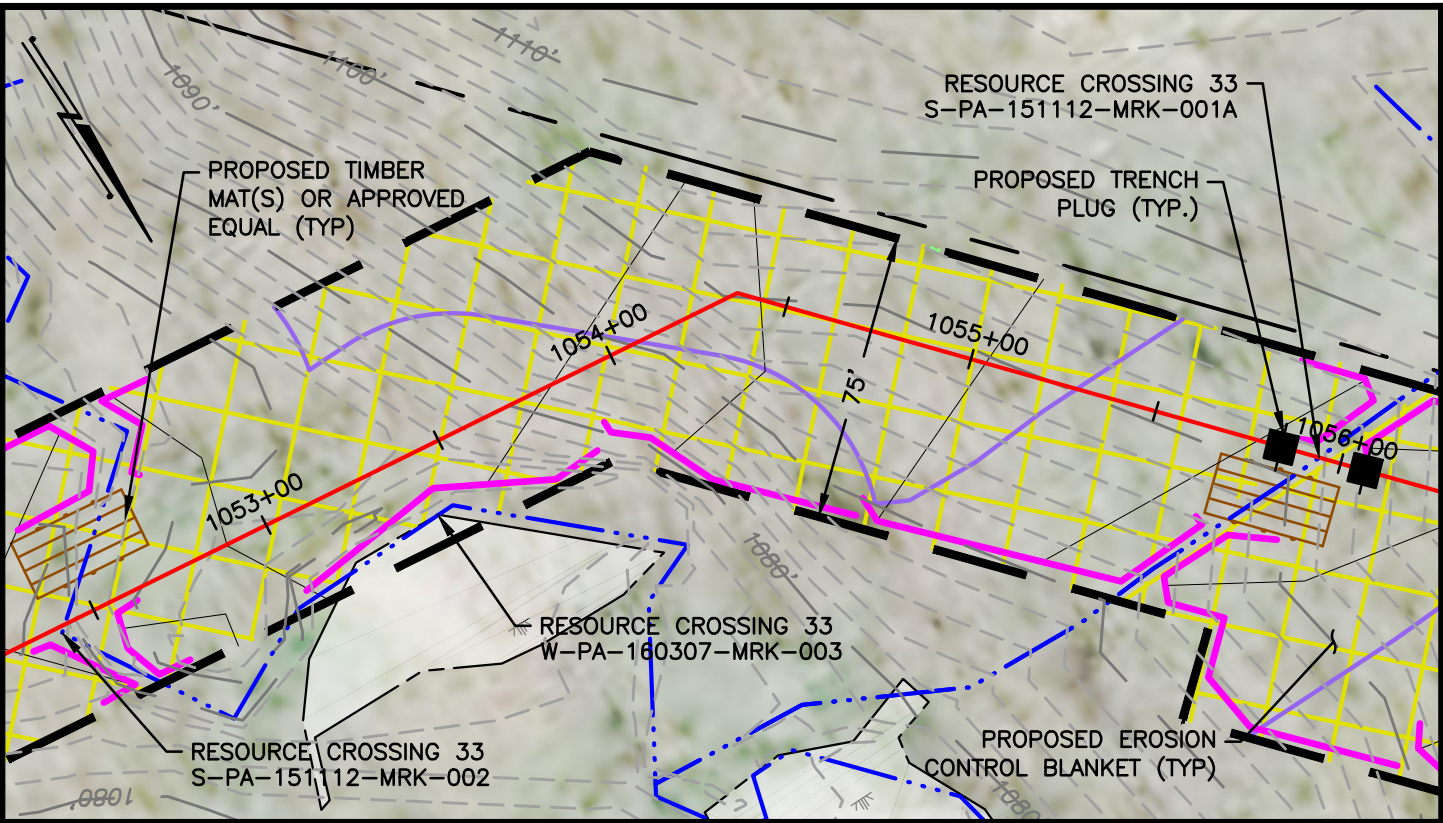
1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS081 - RESOURCE CROSSING #32					
FINDLAY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.					
DATE:		09/14/17	SPLC-GOM-AE-SA124580		
BY:		IMM	REV. 1		

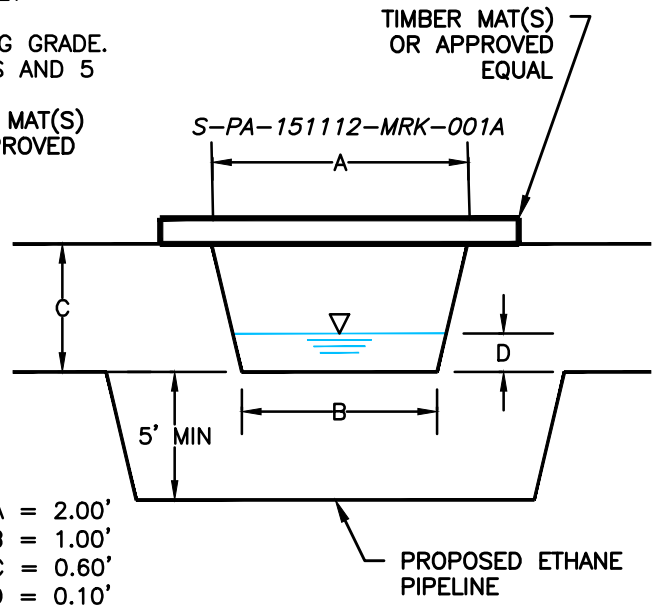
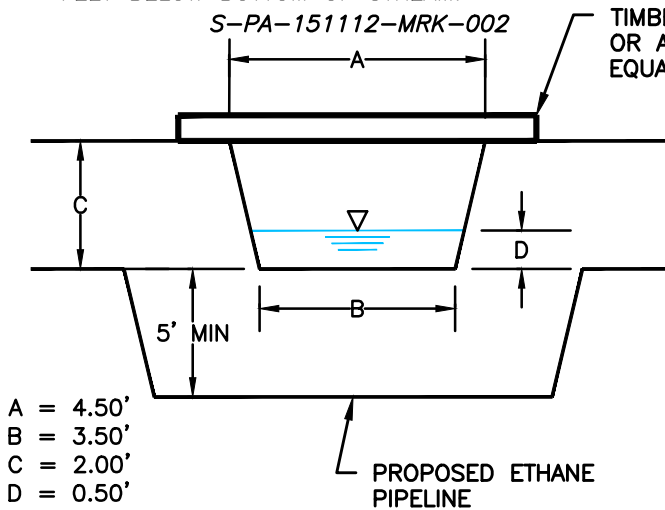
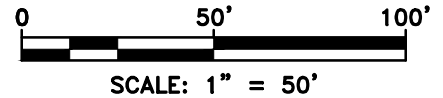


Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\090-1-S1\_S2\_W1.DWG  
Last saved by: LEVI.WOLFE02 (11/13/2017 12:01 PM) Last Plotted: 2017-12-04 (12/4/2017 10:51 AM)



**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

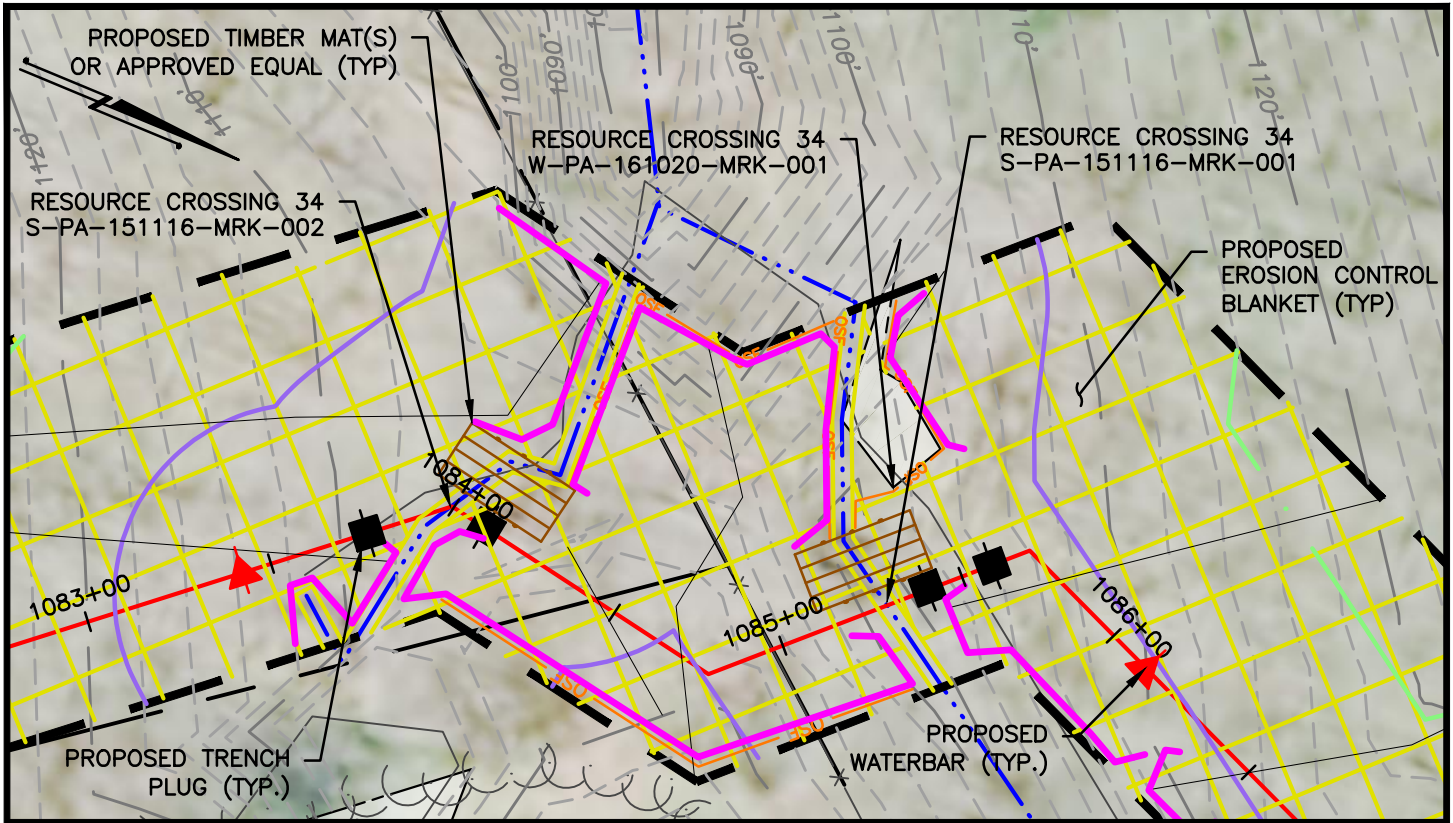
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

**FALCON ETHANE PIPELINE SYSTEM  
HOUSTON TO JUNCTION**

**SS082 - RESOURCE CROSSING #33  
FINDLAY TOWNSHIP  
ALLEGHENY COUNTY, PA**

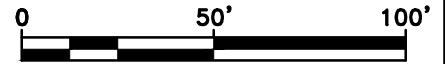
DATE:	09/14/17	SPLC-GOM-AE-SA124581	REV. 1
BY:	IMM		

Filename: Y:\PROJECTS\1747\SHELL\SHELL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\092-1-S1\_S2\_W1.DWG  
Last saved by: LEVI.WOLFE02 (11/13/2017 1:20 PM) Last Plotted: 2017-12-04 (12/4/2017 10:53 AM)

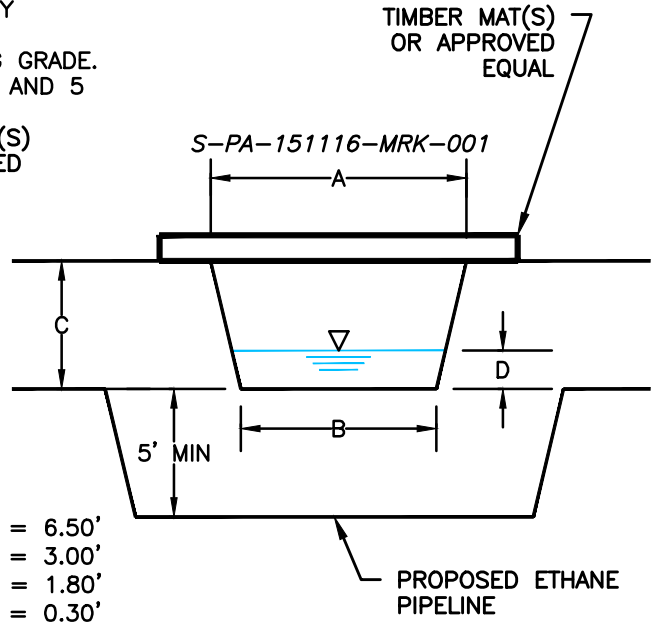
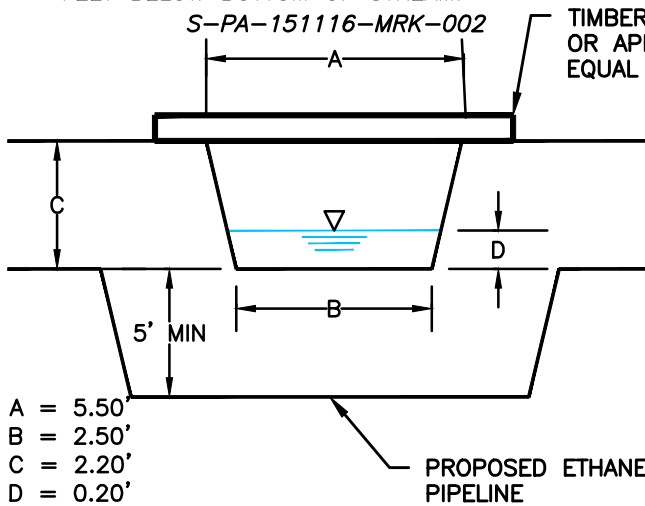


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

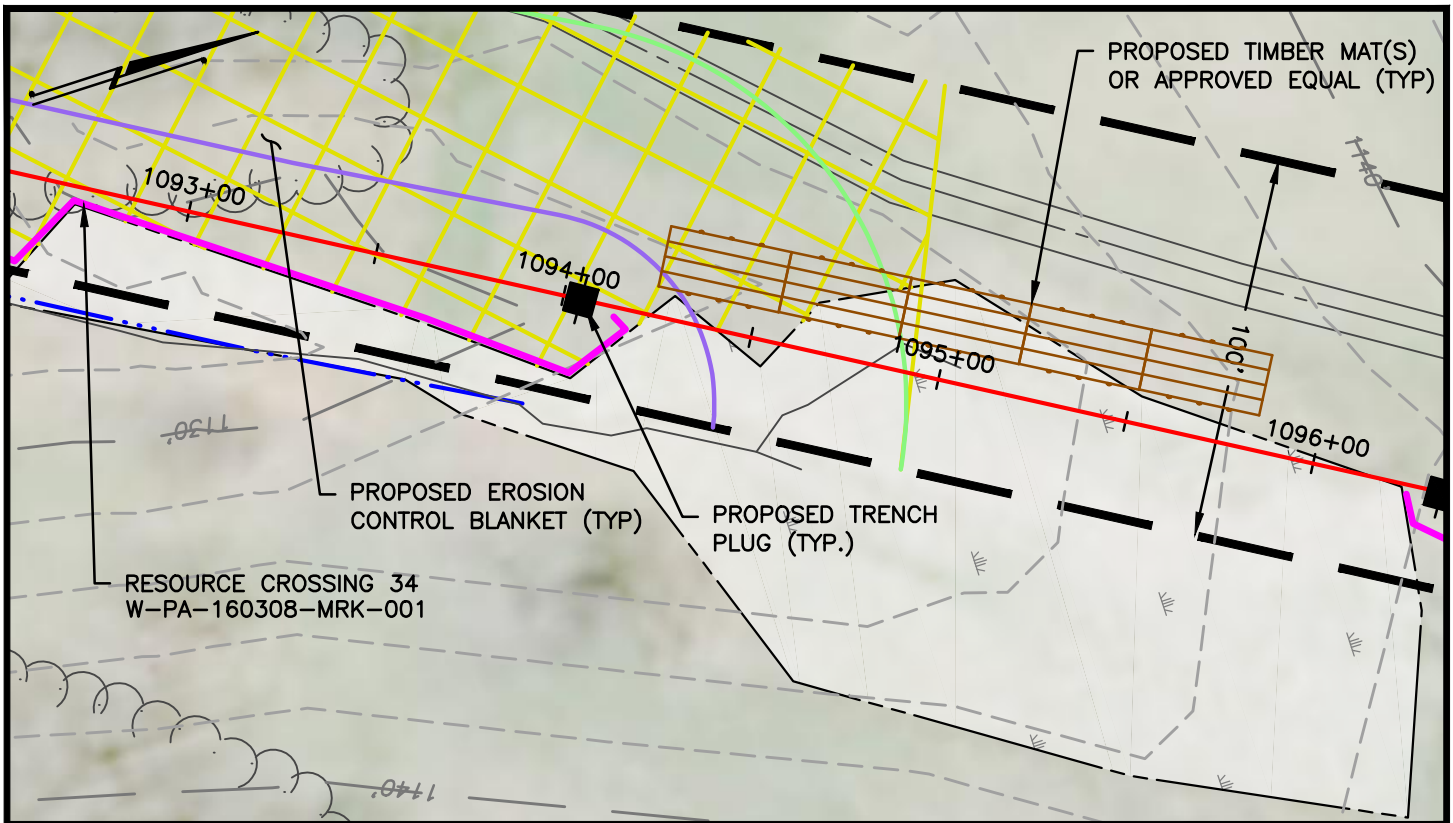
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

**FALCON ETHANE PIPELINE SYSTEM**  
**HOUSTON TO JUNCTION**

**SS083 - RESOURCE CROSSING #34**  
**FINDLAY TOWNSHIP**  
**ALLEGHENY COUNTY, PA**

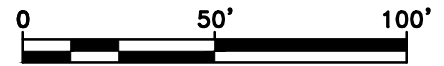
DATE:	09/14/17	SPLC-GOM-AE-SA124582	REV. 1
BY:	IMM		

Filename: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\093-1-W1.DWG  
Last saved by: TASHINA MCKINNEY (10/27/2017 10:36 AM) Last Plotted: 2017-12-04 (12/4/2017 10:54 AM)



**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.

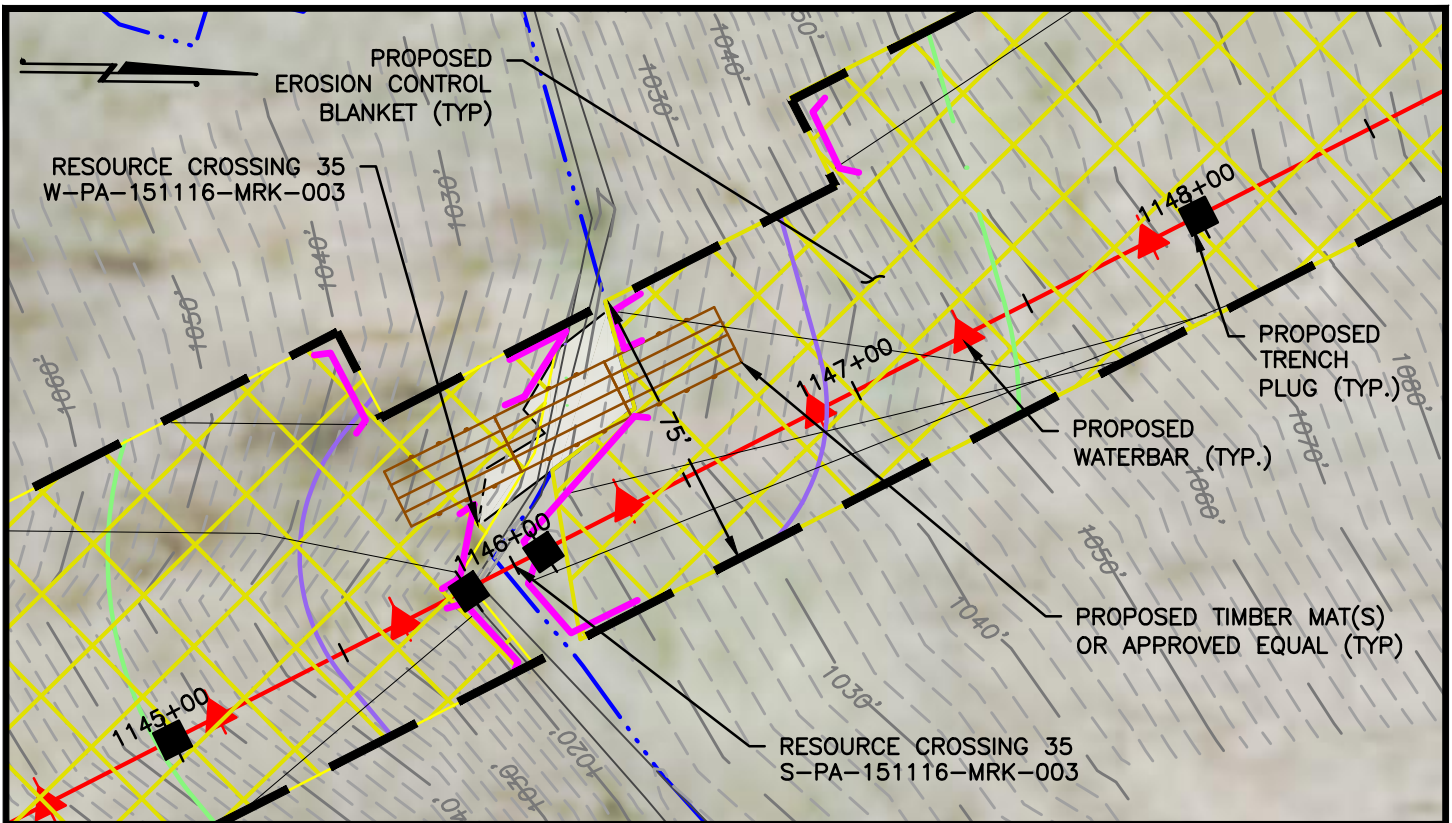


SCALE: 1" = 50'

						FALCON ETHANE PIPELINE SYSTEM		
						HOUSTON TO JUNCTION		
						SS084 - RESOURCE CROSSING #34		
						FINDLAY TOWNSHIP		
						ALLEGHENY COUNTY, PA		
REV		DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	DATE:	09/14/17
1		11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	BY:	IMM
0		9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	SPLC-GOM-AE-SA124583	
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						REV. 1		

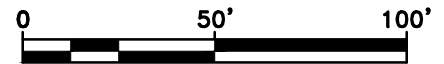


Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\097-1-S1\_W1.DWG  
 Last saved by: ALEXANDER.CURTICE (11/27/2017 10:00 AM) Last Plotted: 2017-12-04 (12/4/2017 10:55 AM)

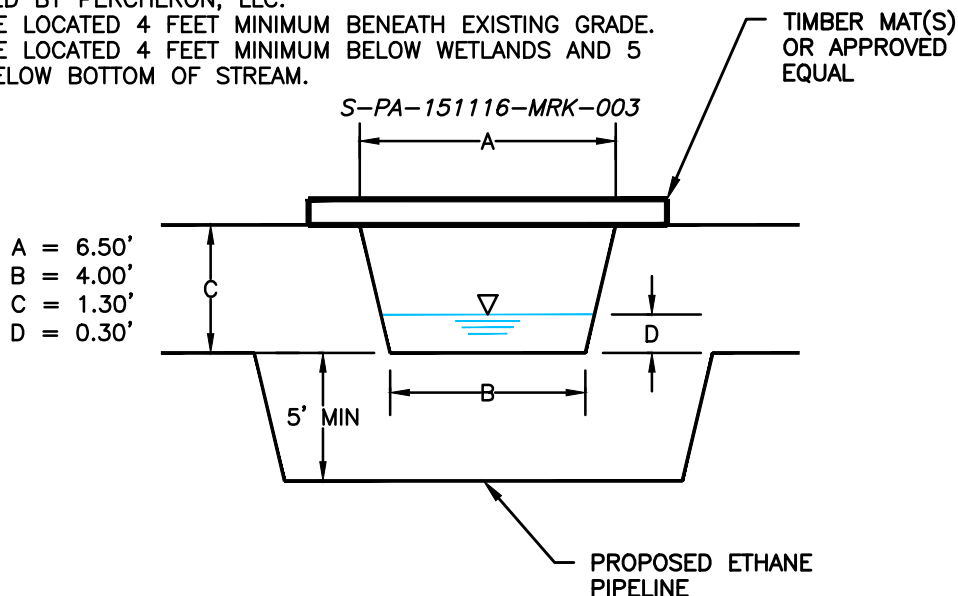


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.

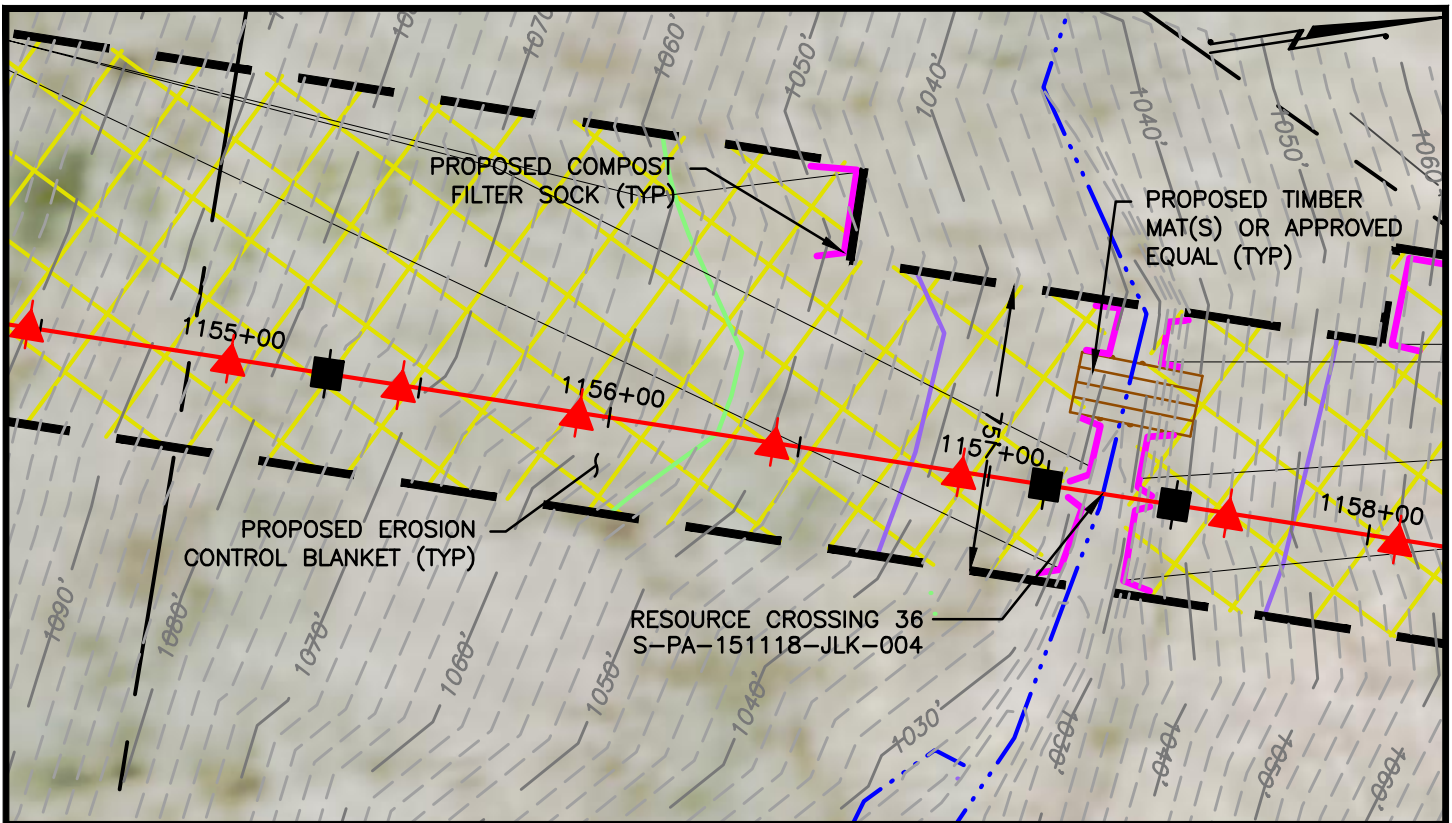


SCALE: 1" = 50'



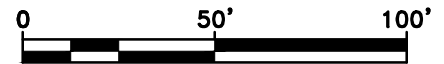
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP	FALCON ETHANE PIPELINE SYSTEM		
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR	HOUSTON TO JUNCTION		
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW	SS085 - RESOURCE CROSSING #35		
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.						FINDLAY TOWNSHIP		
						ALLEGHENY COUNTY, PA		
						DATE:	09/14/17	REV. 1
						BY:	IMM	SPLC-GOM-AE-SA124584

Filename: Y:\PROJECTS\1747\SHILL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\098-1-S1.DWG  
 Last saved by: ALEXANDER.CURTICE (11/27/2017 10:25 AM) Last Plotted: 2017-12-04 (12/4/2017 10:56 AM)

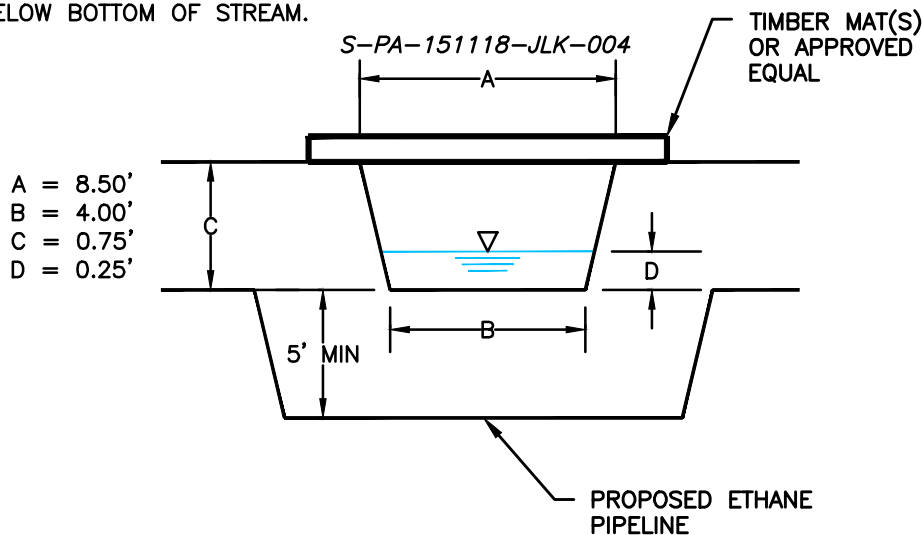


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.

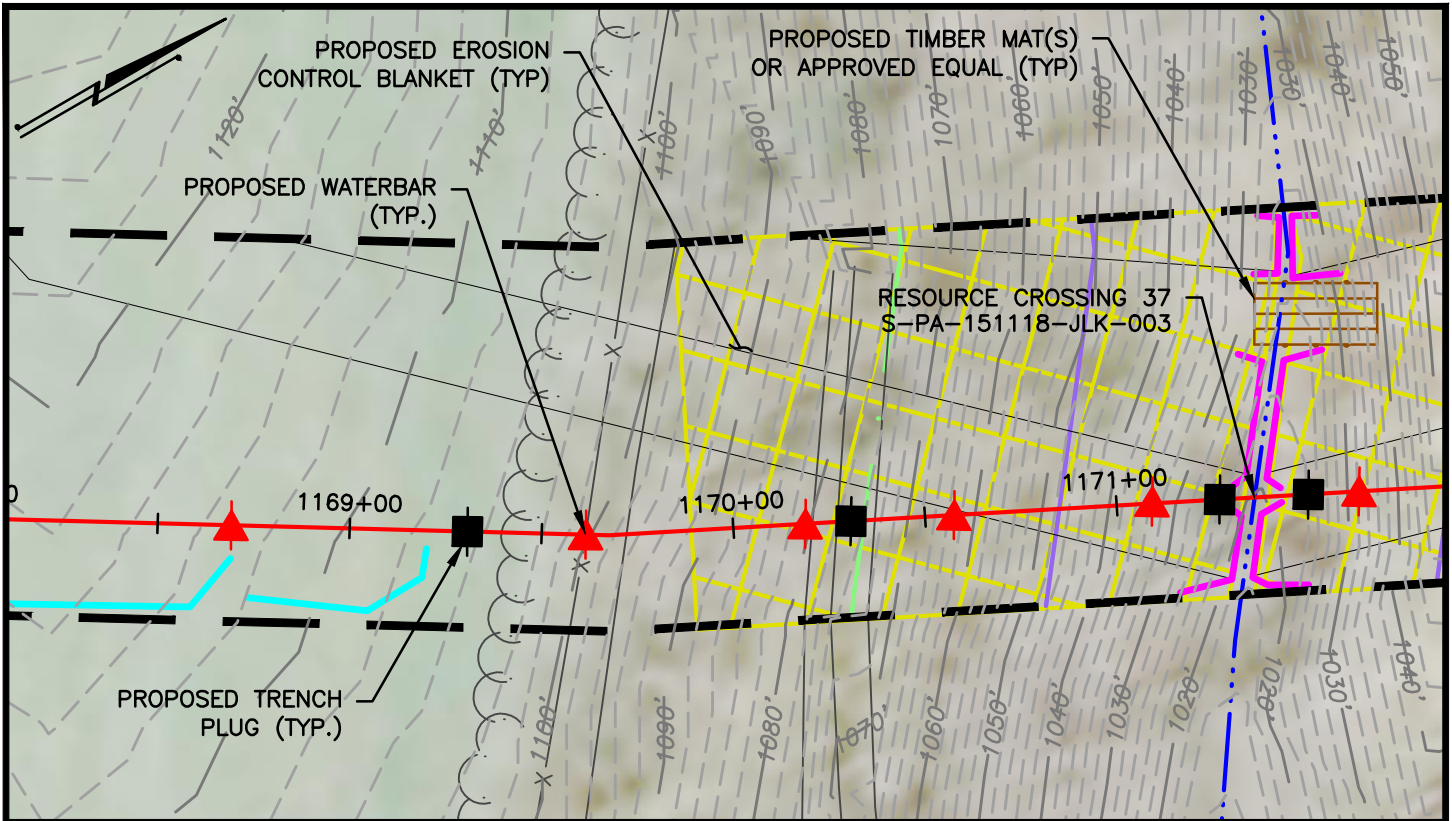


SCALE: 1" = 50'



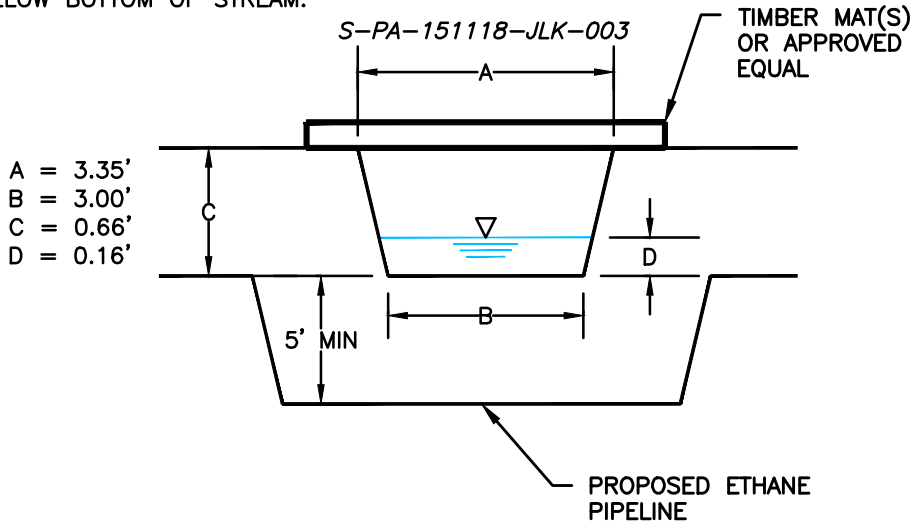
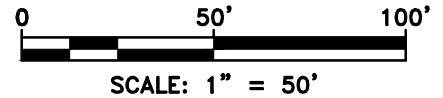
FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS086 - RESOURCE CROSSING #36					
FINDLAY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.			DATE: 09/14/17		
			BY: IMM		
			SPLC-GOM-AE-SA124585		
			REV. 1		

Filename: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\099-1-S1.DWG  
 Last saved by: ALEXANDER.CURTICE (11/27/2017 10:34 AM) Last Plotted: 2017-12-04 (12/4/2017 10:58 AM)



**NOTES:**

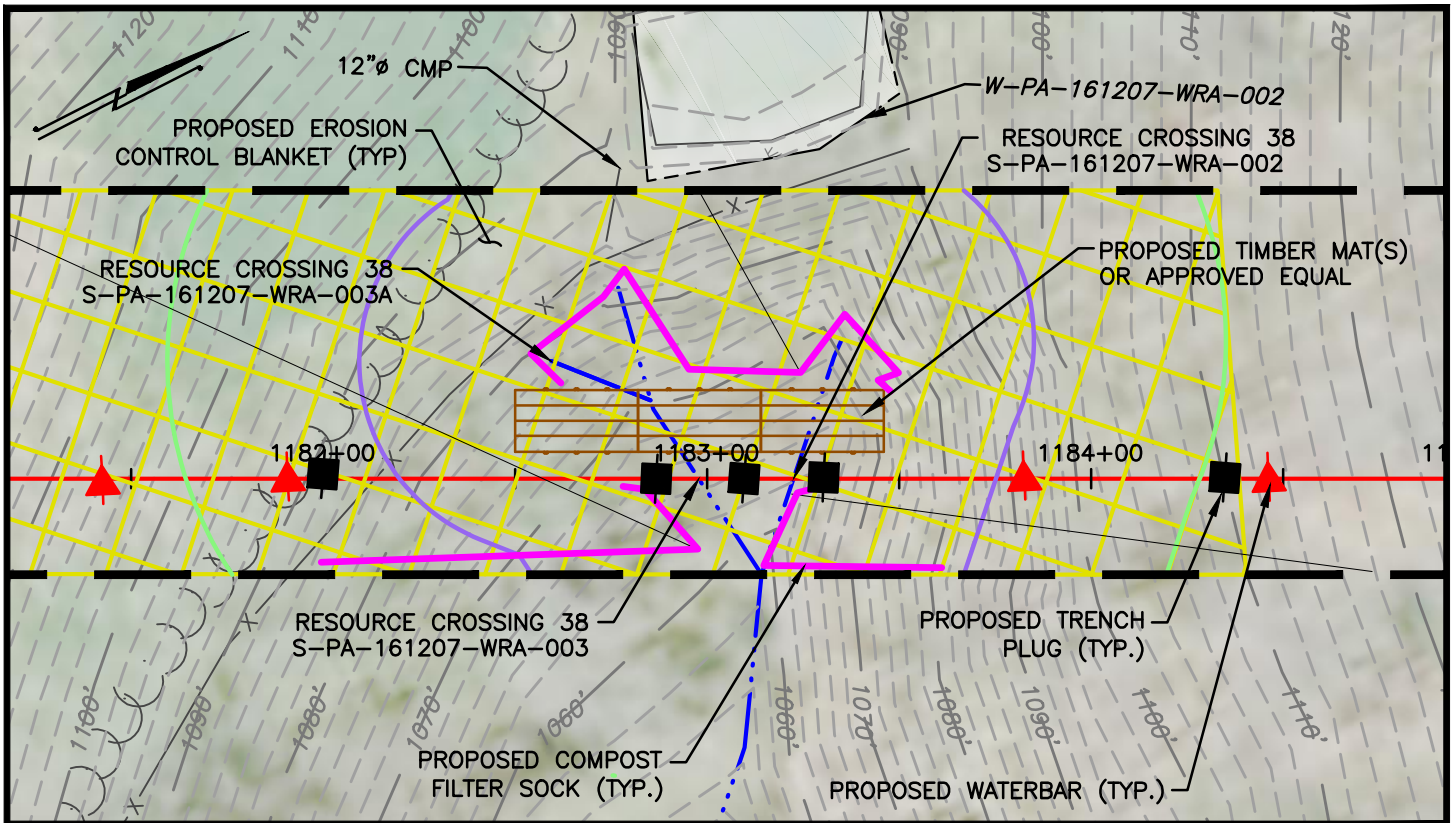
1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



FALCON ETHANE PIPELINE SYSTEM					
HOUSTON TO JUNCTION					
SS087 - RESOURCE CROSSING #37					
FINDLEY TOWNSHIP					
ALLEGHENY COUNTY, PA					
REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.					
DATE:		09/14/17	SPLC-GOM-AE-SA124586		
BY:		IMM	REV. 1		

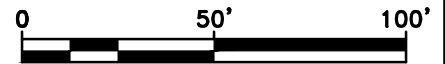


File name: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\100-1-S01\_S02\_S03.DWG  
Last saved by: ALEXANDER.CURTICE (11/27/2017 10:39 AM) Last Plotted: 2017-12-04 (12/4/2017 10:59 AM)

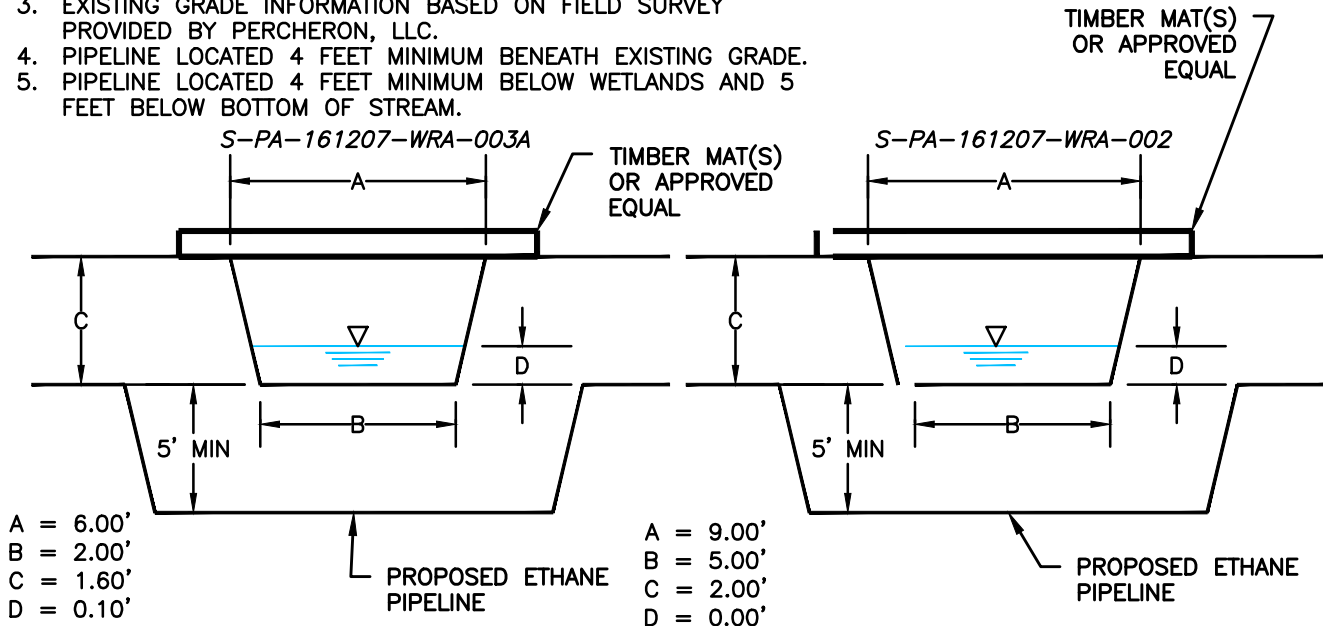


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

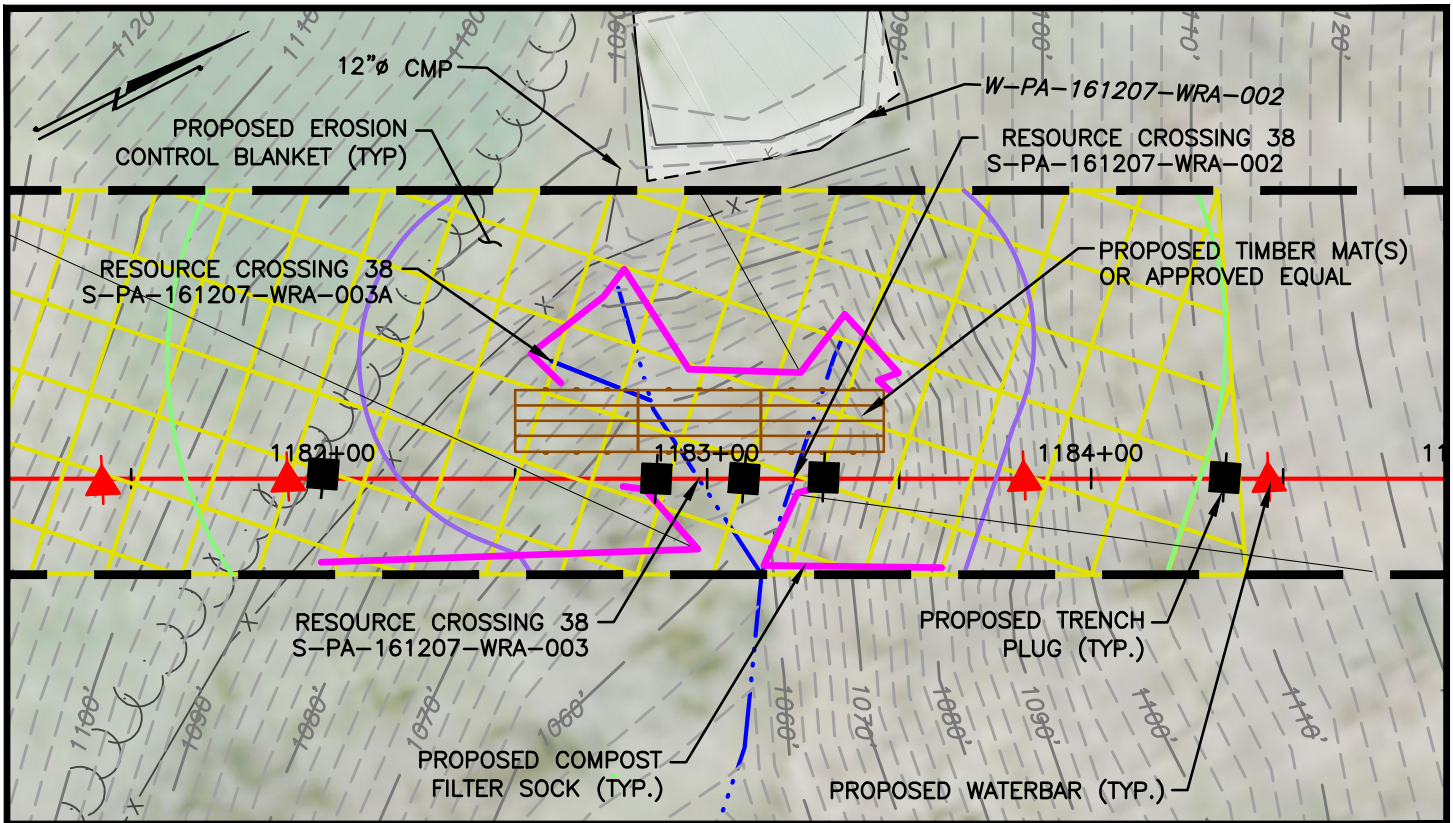
THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

**FALCON ETHANE PIPELINE SYSTEM**  
**HOUSTON TO JUNCTION**

**SS088 - RESOURCE CROSSING #38**  
**FINDLAY TOWNSHIP**  
**ALLEGHENY COUNTY, PA**

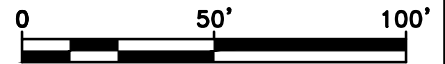
DATE:	09/14/17	SPLC-GOM-AE-SA124587	REV. 1
BY:	IMM		

File name: Y:\PROJECTS\1747\SHLL\60489885 - FALCON\900-WORK\911-ENVIRONMENTAL\20-SHEETS\SITESPECIFICS\PENNSYLVANIA\100-1-S03.DWG  
Last saved by: ALEXANDER.CURTICE (11/27/2017 10:44 AM) Last Plotted: 2017-12-04 (12/4/2017 11:00 AM)

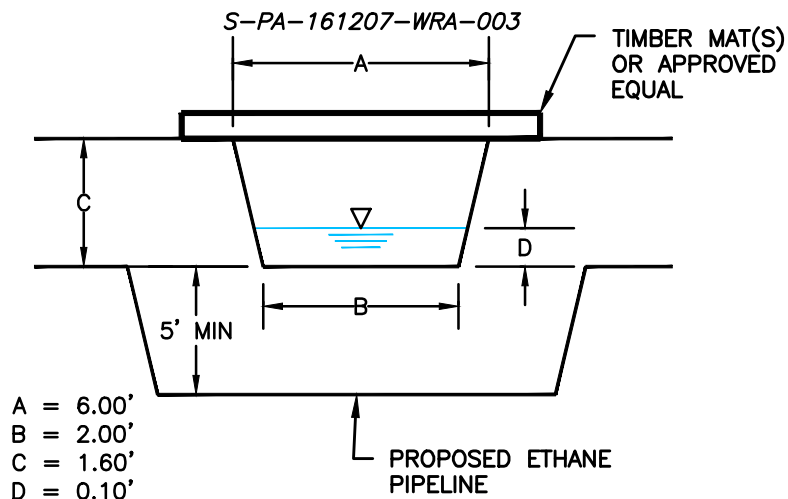


**NOTES:**

1. FOR RESOURCE IMPACTS SEE AQUATIC RESOURCE TABLE INCLUDED IN THIS APPLICATION PACKAGE
2. WETLAND INFORMATION BASED ON FIELD DELINEATION PERFORMED BY AECOM.
3. EXISTING GRADE INFORMATION BASED ON FIELD SURVEY PROVIDED BY PERCHERON, LLC.
4. PIPELINE LOCATED 4 FEET MINIMUM BENEATH EXISTING GRADE.
5. PIPELINE LOCATED 4 FEET MINIMUM BELOW WETLANDS AND 5 FEET BELOW BOTTOM OF STREAM.



SCALE: 1" = 50'



REV	DATE	DESCRIPTION OF REVISION	DWN	CHK	APP
1	11/10/17	REVISED PER DEP COMMENTS ON 10/11	TLM	NS	JR
0	9/14/17	ISSUED FOR PERMIT	IMM	NS	BW

THIS DOCUMENT IS CONFIDENTIAL AND IT SHALL NOT BE REPRODUCED OR REDISTRIBUTED WITHOUT PRIOR PERMISSION. NEITHER THE OPERATOR NOR THE OWNER MAKE ANY WARRANTY AS TO THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION CONTAINED ON THIS DRAWING, AND THE USER ASSUMES ALL RISK OF LOSS TO PERSONS AND PROPERTY AS A RESULT OF RELIANCE THEREON.

**FALCON ETHANE PIPELINE SYSTEM  
SCIO TO JUNCTION**

**SS088A - RESOURCE CROSSING 38A  
FINDLAY TOWNSHIP  
ALLEGHENY COUNTY, PA**

DATE:	09/14/17	REV.	1
BY:	IMM	SPLC-GOM-AE-SA124587A	

## **Requirement I**

### Location Map



