

# Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible, and must remain posted during entirety of development.

**Permit: #17-474**

**Date Approved: August 21, 2017**

**Expires: August 21, 2018**

**Issued to: Antero Resources, Inc.**

**POC: Rachel Gryzbek 304/842-4008**

**Company Address: 535 White Oaks Blvd. Bridgeport, WV 26330**

**Project Address: Englands Run Rd. & Rt. 50**

**Firm: 54017C0140C**

**Lat/Long: 39.288388N, -80.713529W**

**Purpose of Development: Pipeline Install**

**Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)**

**Date: August 21, 2017**

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For additional information regarding this permit, please contact  
Doddridge County Floodplain Manager at 304.873.2631, or via email at  
doddridgecountyfpm@gmail.com  
118 East Court Street; West Union, WV 26456

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7015 3430 0001 1569 7798

U.S. Postal Service  
**CERTIFIED MAIL® RECEIPT**  
Domestic Mail Only

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

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Certified Mail Fee  
\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ \_\_\_\_\_

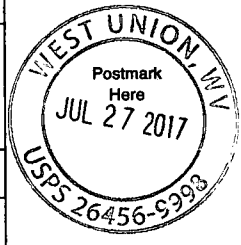
Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
\$ .49

Total Postage and Fees  
\$ 6.59



Sent To  
Street and Apt. No., or PO Box No.  
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

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Certified Mail Fee  
\$ 3.35

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ \_\_\_\_\_

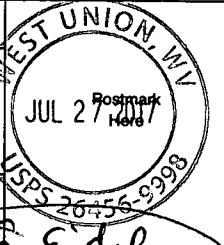
Certified Mail Restricted Delivery \$ \_\_\_\_\_

Adult Signature Required \$ \_\_\_\_\_

Adult Signature Restricted Delivery \$ \_\_\_\_\_

Postage  
\$ .49

Total Postage and Fees  
\$ 6.59



Sent To  
Street and Apt. No., or PO Box No. G. Eidy  
105 Court St  
City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hall Drilling, LLC  
P.O. Box 249  
Ellenboro, WV 26346



9590 9402 2859 7069 5448 65

2. Article Number (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

 Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

8/1/17

 D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

- |  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                               | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery           | <input type="checkbox"/> Registered Mail™                           |
| <input type="checkbox"/> Certified Mail®                               | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery            | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery                           | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery       | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail                                  |   |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) |   |

USPS TRACKING #



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

9590 9402 2859 7069 5448 65

United States  
Postal Service

• Sender: Please print your name, address, and ZIP+4® in this box•

George Eidel  
Doddrige County OEM/CFM  
105 Court St., Ste. 3  
West Union, WV 26456

17-474



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

**1. Article Addressed to:**

**Ms. Rachal Mercado  
129 Englands Run Rd.  
West Union, WV 26456**



9590 9402 2859 7069 5448 58

**2. Article Number (Transfer from service label)****COMPLETE THIS SECTION ON DELIVERY****A. Signature****X**

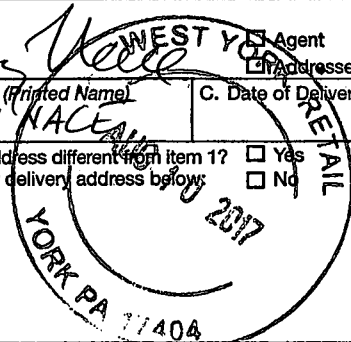
*Jody Nace*  Agent  
 Addressee

**B. Received by (Printed Name)**

JODY NACE

**C. Date of Delivery****D. Is delivery address different from item 1?  Yes**

If YES, enter delivery address below:  No

**3. Service Type**

- |  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                               | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery           | <input type="checkbox"/> Registered Mail™                           |
| <input type="checkbox"/> Certified Mail®                               | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery            | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery                           | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery       | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail                                  |   |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) |   |

USPS TRACKING #



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

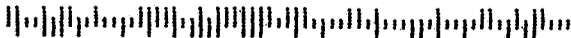
9590 9402 2899 7069 5448 58

**United States  
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

George Eidel  
Doddridge County OEM/CFM  
105 Court St., Ste. 3  
West Union, WV 26456

17-474





ANTERO MIDSTREAM LLC  
1615 WYNKOOP STREET  
DENVER, COLORADO 80202

Vendor Name	Vendor No.	Date	Check Number	Check Total
DODDRIDGE COUNTY COMMISSION	43312	Aug-24-2017	107891	\$3,000.00

INV #	INV DATE	DESCRIPTION	AMOUNT	DISCOUNTS	NET AMOUNT
HA08242017	08/24/17	FLOODPLAIN PERMIT STRICKLING PIPELI	3,000.00	0.00	3,000.00

FP #17-474

SEP 1 17 11:24AM

COPY

COPY

TOTAL INVOICES PAID ==> 3,000.00 0.00 3,000.00

DETACH AND RETAIN FOR TAX PURPOSES

THIS CHECK HAS A COLORED FACE ON WHITE STOCK AND AN ARTIFICIAL WATERMARK ON THE BACK



ANTERO MIDSTREAM LLC  
1615 WYNKOOP STREET  
DENVER, COLORADO 80202

Wells Fargo  
Denver, CO

Check No. 107891

11-24  
412

800 - AP ACCT WELLS FARGO

Void After 90 Days

CHECK NUMBER	DATE	PAY EXACTLY
107891	Aug-24-2017	\$3,000.00

PAY TO THE ORDER OF EXACTLY \$3,000dols00cts  
Three Thousand Dollars and Zero Cents

TO THE ORDER OF

DODDRIDGE COUNTY COMMISSION  
BETH A ROGERS, CLERK~118 EAST COURT STREET~ROOM 10  
2  
WEST UNION, WV 26456

*[Signature]*

COPY

⑆107891⑆ ⑆041203824⑆

9657181710⑆



ANTERO MIDSTREAM LLC  
1615 WYNKOOP STREET  
DENVER, COLORADO 80202

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FP #17-474

SEP 1 17 11:24AM

## Doddridge County, West Virginia

RECEIPT NO: 9615

DATE: 2017/09/12

FROM: ANTERO MIDSTREAM

AMOUNT: \$ 3,000.00

THREE THOUSAND DOLLARS AND 00 CENTS

FOR: #17-474 STRICKLING PIPELINE

00000107891 FP-BUILDING PERMITS

020-318

TOTAL: \$3,000.00

MICHAEL HEADLEY  
SHERIFF & TREASURER

MEC  
CLERK

Customer Copy

TOTAL INVOICES PAID ==>

3,000.00

0.00

3,000.00



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**FLOODPLAIN PERMIT #17-474**

*Englands Run & Rt. 50 Pipeline Project*

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<b>TASK</b>	<b>COMPLETE (DATE)</b>	<b>NOTES</b>
CHECK RECEIVED	9-1-17	
US ARMY CORP. ENGINEERS (USACE)		
US FISH & WILDLIFE SERVICES (USFWS)		
WV DEPT. NATURAL RESOURCES (WVDNR)		
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)		
STATE HISTORIC & PRESERVATION OFFICE (SHPO)		
OFFICE of LAND & STREAM (OLS)		
DATE OF COMMISSION READING		
DATE AVAILABLE TO BE GRANTED	8/21/17	
PERMIT GRANTED	9-1-17	
COMPLETE		

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7015 3430 0001 1569 7781

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7015 3430 0001 1569 7798



## **Doddridge County Floodplain Permits**

**(Week of July 31, 2017)**

Please take notice that on the 25<sup>th</sup> day of July, 2017, **Antero Midstream LLC** filed an application for a Floodplain Permit (**#17-474**) to develop land located at or about **Englands Run and Route 50** coordinates **39.288388N, -80.713529W**. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **August 21, 2017** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is for the Strickling Pipeline**

 **Antero**  
Midstream Partners LP  
Antero Midstream, LLC  
535 White Oaks Blvd  
Bridgeport, WV 26330  
Office 304.842.4100  
Fax 304.842.4102

July 11, 2017

Doddridge County Commission  
Attn: George Eidel, Doddridge County Floodplain Manager  
118 East Court Street, Room 102  
West Union, WV 26456

(304)  
281-2631

Mr. Eidel:

Antero Midstream LLC would like to submit a Doddridge County Floodplain permit application for our **Strickling Pipeline** project. Our project is located in Doddridge County beginning at coordinates 39.332856N, 80.792886W, and continues to coordinates 39.275239N, 80.689586W. Per the FIRM Maps #54017C0110C, #54017C0120C, and #54017C0140C, this location is in the floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- No-Rise Certificate
- WV Flood Tool Map
- FIRM Maps
- Design Plans

JUL24 17 11:28AM

If you have any questions please feel free to contact me at (304) 842-4008.

Thank you in advance for your consideration.

Sincerely,



Rachel Grzybek  
Environmental Specialist II  
Antero Resources Corporation

Enclosures



Permit#

17-474

Project Name:

Strickling  
Pipeline

Permittees Name:

Antero  
Midstream LLC

## **Doddridge County, WV**

### **Floodplain Development Permit Application**

JUL24 17 11:28AM

This document is to be used for projects that impact/potentially impact the FEMA—designated floodplain and/or floodway of Doddridge County, WV pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance.

#### **SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)**

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. I THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

APPLICANT'S SIGNATURE

Brian [Signature]

DATE 7-12-17

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Applicant Information:**

*Please provide all pertinent data.*

<b>Applicant Information</b>		
<b>Responsible Company Name: Antero Midstream LLC</b>		
<b>Corporate Mailing Address: 1615 Wynkoop Street</b>		
<b>City: Denver</b>	<b>State: CO</b>	<b>Zip: 80202</b>
<b>Corporate Point of Contact (POC):</b>		
<b>Corporate POC Title:</b>		
<b>Corporate POC Primary Phone:</b>		
<b>Corporate POC Primary Email:</b>		
<b>Corporate FEIN:</b>	<b>Corporate DUNS:</b>	
<b>Corporate Website: <a href="http://www.anteroresources.com">www.anteroresources.com</a></b>		
<b>Local Mailing Address: 535 White Oaks Blvd</b>		
<b>City: Bridgeport</b>	<b>State: WV</b>	<b>Zip: 26330</b>
<b>Local Project Manager (PM):</b>		
<b>Local PM Primary Phone:</b>		
<b>Local PM Secondary Phone:</b>		
<b>Local PM Primary Email:</b>		
<b>Person Filing Application: Rachel Grzybek</b>		
<b>Applicant Title: Environmental Specialist II</b>		
<b>Applicant Primary Phone: (304) 842-4008</b>		
<b>Applicant Secondary Phone: (304) 641-2396</b>		
<b>Applicant Primary Email: <a href="mailto:rgrzybek@anteroresources.com">rgrzybek@anteroresources.com</a></b>		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Project Narrative:**

*Describe in detail the proposed development including project name/title, type of development, estimated start and completion timeline, and its potential impact on the floodplain. Use additional copies of this page as needed.*

<b>Project Narrative:</b>
The Strickling Pipeline project is located east of WV 18 beginning in the Crystal Lake area
and ending south of US 50 near Sherwood. The proposed work includes the construction of a
30" High Pressure Steel Gas Line and a 20" and 16" Low Pressure Steel Gas Line. A portion of the
project is located within the Middle Island Creek ZONE A Flood Hazard area, according to the
Flood Insurance Rate Map (FIRM) for Doddridge County, map panel 54017C0140C with a map
revised date of October 4, 2011. The proposed work that will take place in the floodplain includes
the installation of permanent water bars, upgrading existing pipeline access roads, and the
installation of the pipelines. The material needed to construct the permanent water bars will be
excavated from the upgradient side of the berm. Therefore, a net loss of floodplain storage is not
expected. All other disturbed areas will be returned to existing conditions at the conclusion of the
work. The crossing of US 50 and the Middle Island Creek Zone AE Flood Hazard Area will be
performed using Radial HDD Bore Methods. As a result, this project will not result in a decrease
of the available floodplain storage area and will not adversely affect the existing base flood
elevation of Middle Island Creek. The total project is located on Flood Insurance Rate Maps
(FIRM) for Doddridge County, map panels 54017C110C, 54017C0120C, and 54017C0140C all with
a map revised date of October 4, 2011.

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Proposed Development:**

*Please check all elements of the proposed project that apply.*

**DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)**

**A. STRUCTURAL DEVELOPMENT**

<u>ACTIVITY</u>		<u>STRUCTURAL TYPE</u>	
<input type="checkbox"/>	New Structure	<input type="checkbox"/>	Residential (1 – 4 Family)
<input type="checkbox"/>	Addition	<input type="checkbox"/>	Residential (more than 4 Family)
<input type="checkbox"/>	Alteration	<input type="checkbox"/>	Non-residential (floodproofing)
<input type="checkbox"/>	Relocation	<input type="checkbox"/>	Combined Use (res. & com.)
<input type="checkbox"/>	Demolition	<input type="checkbox"/>	Replacement
<input type="checkbox"/>	Manufactured/Mobil Home		

**B. OTHER DEVELOPMENT ACTIVITIES:**

- Fill                     Mining                     Drilling                     Pipelining
- Grading
- Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse Alteration (including dredging and channel modification)
- Drainage Improvements (including culvert work)
- Road, Street, or Bridge Construction
- Subdivision (including new expansion)
- Individual Water or Sewer System
- Other (please specify)

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Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation:   1   of  36 

<b>Site/Property Information:</b>		
Legal Description: MI CREEK 357.75 AC		
Physical Address/911 Address: STAR RT @ RT 28 UN		
Decimal Latitude/Longitude: 39.330928, -80.788783		
DMS Latitude/Longitude: 39°19'51.34"N, 80°47'19.62"W		
District: 08	Map: 4	Parcel: 28
Land Book Description:		
Deed Book Reference: Deed Book WB28, Page 314		
Tax Map Reference: 09 08 0004 0028 0000 0000		
Existing Buildings/Use of Property: Farm, House, Buildings, Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			



Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

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**Property Designation:**   2   of   36  

<b>Site/Property Information:</b>		
<b>Legal Description:</b> MI CREEK 450 AC		
<b>Physical Address/911 Address:</b> Piggin Run West Union 34/1		
<b>Decimal Latitude/Longitude:</b> 39.321036, -80.775361		
<b>DMS Latitude/Longitude:</b> 39°19'15.73"N, 80°46'31.30"W		
<b>District:</b> 08	<b>Map:</b> 07	<b>Parcel:</b> 10
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 260, Page 168		
<b>Tax Map Reference:</b> 09 08 0007 0010 0000 0000		
<b>Existing Buildings/Use of Property:</b> Farm, House, Buildings, Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

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**Property Designation:**  3  of  36

<b>Site/Property Information:</b>		
<b>Legal Description:</b> PIGGIN RUN 116.54 AC		
<b>Physical Address/911 Address:</b> RT 2 W UNION Rt 34 PIGGIN RUN		
<b>Decimal Latitude/Longitude:</b> 39.314731, -80.770814		
<b>DMS Latitude/Longitude:</b> 39°18'53.03"N, 80°46'14.93"W		
<b>District:</b> 08	<b>Map:</b> 07	<b>Parcel:</b> 18
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 304, Page 463		
<b>Tax Map Reference:</b> 09 08 0007 0018 0000 0000		
<b>Existing Buildings/Use of Property:</b> Farm, Wooded, House		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

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Property Designation: 4 of 36

<b>Site/Property Information:</b>		
Legal Description: PIGGIN RUN 45.8 AC		
Physical Address/911 Address: Piggin Run RT 34		
Decimal Latitude/Longitude: 39.312614, -80.767994		
DMS Latitude/Longitude: 39°18'45.41"N, 80°46'4.78"W		
District: 08	Map: 07	Parcel: 18.1
Land Book Description:		
Deed Book Reference: Deed Book 346, Page 612		
Tax Map Reference: 09 08 0007 0018 0001 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

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Property Designation:   5   of  36 

<b>Site/Property Information:</b>		
Legal Description: PIGGIN RUN INT O&G 182.67 AC		
Physical Address/911 Address: PIGGIN RUN RT. 34		
Decimal Latitude/Longitude: 39.309758, -80.766417		
DMS Latitude/Longitude: 39°18'35.13"N 80°45'59.10"W		
District: 08	Map: 07	Parcel: 29
Land Book Description:		
Deed Book Reference: DEED BOOK 220, PAGE 5		
Tax Map Reference: 09 08 0007 0029 0000 0000		
Existing Buildings/Use of Property: WOODED		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

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**Property Designation:**   6   of  36 

<b>Site/Property Information:</b>		
<b>Legal Description:</b> 1/7 INT & INT O&G 49.5 AC ROCK RUN		
<b>Physical Address/911 Address:</b> STAR RT W UNION ROCK RUN		
<b>Decimal Latitude/Longitude:</b> 39.308703, -80.761131		
<b>DMS Latitude/Longitude:</b> 39°18'31.33"N, 80°45'40.07"W		
<b>District:</b> 08	<b>Map:</b> 7	<b>Parcel:</b> 25
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> DEED BOOK WB 43, PAGE 463		
<b>Tax Map Reference:</b> 09 08 0007 0025 0000 0000		
<b>Existing Buildings/Use of Property:</b> Building, Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 7 of 36

<b>Site/Property Information:</b>		
Legal Description: ROCK RUN 11.06 AC		
Physical Address/911 Address: STAR RT W UNION – ROCK RUN		
Decimal Latitude/Longitude: 39.307272, -80.755353		
DMS Latitude/Longitude: 39°18'26.18"N, 80°45'19.27"W		
District: 08	Map: 08	Parcel: 40
Land Book Description:		
Deed Book Reference: Deed Book 261, Page 512		
Tax Map Reference: 09 08 0008 0040 0000 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 8 of 36

<b>Site/Property Information:</b>		
Legal Description: ROCK RUN 13.54 AC		
Physical Address/911 Address: STAR RT W UNION RT 5		
Decimal Latitude/Longitude: 39.305347, -80.757056		
DMS Latitude/Longitude: 39°18'19.25"N, 80°45'25.40"W		
District: 08	Map: 12	Parcel: 2
Land Book Description:		
Deed Book Reference: Deed Book 235, Page 23		
Tax Map Reference: 09 08 0012 0002 0000 0000		
Existing Buildings/Use of Property: Wooded, Trailer, Garage		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 9 of 36

<b>Site/Property Information:</b>		
Legal Description: ROCK RUN 18.7 AC		
Physical Address/911 Address: STAR RT W UNION RT 5		
Decimal Latitude/Longitude: 39.303669, -80.754522		
DMS Latitude/Longitude: 39°18'13.21"N 80°45'16.28"W		
District: 08	Map: 12	Parcel: 4
Land Book Description:		
Deed Book Reference: Deed Book 259, page 365		
Tax Map Reference: 09 08 0012 0004 0000 0000		
Existing Buildings/Use of Property: ROCK RUN RENTED MOBILE HOME PARK		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			



Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 10 of 36

<b>Site/Property Information:</b>		
Legal Description: ROCK RUN 20.89 AC		
Physical Address/911 Address: STAR RT W UNION – ROCK RUN		
Decimal Latitude/Longitude: 39.305106, -80.752394		
DMS Latitude/Longitude: 39°18'18.38"N, 80°45'8.62"W		
District: 08	Map: 8	Parcel: 45
Land Book Description:		
Deed Book Reference: Deed Book 312, Page 177		
Tax Map Reference: 09 08 0008 0045 0000 0000		
Existing Buildings/Use of Property: Building, Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:** 11 of 36

<b>Site/Property Information:</b>		
<b>Legal Description:</b> ROCK RUN 14.33 AC		
<b>Physical Address/911 Address:</b> STAR RT W. UNION 5/9		
<b>Decimal Latitude/Longitude:</b> 39.305972, -80.749944		
<b>DMS Latitude/Longitude:</b> 39°18'21.50"N, 80°44'59.80"W		
<b>District:</b> 08	<b>Map:</b> 8	<b>Parcel:</b> 49
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 233, Page 220		
<b>Tax Map Reference:</b> 09 08 0008 0049 0000 0000		
<b>Existing Buildings/Use of Property:</b> Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 12 of 36

<b>Site/Property Information:</b>		
Legal Description: 28.956 AC ROCK RUN		
Physical Address/911 Address: Not Listed		
Decimal Latitude/Longitude: 39.304389, -80.746819		
DMS Latitude/Longitude: 39°18'15.80"N, 80°44'48.55"W		
District: 08	Map: 12	Parcel: 99
Land Book Description:		
Deed Book Reference: Deed Book 250, Page 323		
Tax Map Reference: 09 08 0012 0099 0000 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 13 of 36

<b>Site/Property Information:</b>		
Legal Description: 66.7 AC JOCKEY CAMP ½ INT SURF VEIN OF COAL 73.8		
Physical Address/911 Address: ROUTE 30/3		
Decimal Latitude/Longitude: 39.306408, -80.736208		
DMS Latitude/Longitude: 39°18'23.07"N 80°44'10.35"W		
District: 08	Map: 12	Parcel: 12
Land Book Description:		
Deed Book Reference: Deed Book 250, page 323		
Tax Map Reference: 09 08 0012 0012 0000 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 14 of 36

<b>Site/Property Information:</b>		
Legal Description: MI CREEK 26 AC		
Physical Address/911 Address: RT 50		
Decimal Latitude/Longitude: 39.302572, -80.749458		
DMS Latitude/Longitude: 39°18'9.26"N, 80°44'58.05"W		
District: 08	Map: 12	Parcel: 7
Land Book Description:		
Deed Book Reference: Deed Book 196, Page 331		
Tax Map Reference: 09 08 0012 0007 0000 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 15 of 36

<b>Site/Property Information:</b>		
Legal Description: 70.58AC JOCKEY CAMP		
Physical Address/911 Address:		
Decimal Latitude/Longitude: 39.306317, -80.730403		
DMS Latitude/Longitude: 39°18'22.74"N, 80°43'49.45"W		
District: 08	Map: 12	Parcel: 13.1
Land Book Description:		
Deed Book Reference: Deed Book 237, Page 55		
Tax Map Reference: 09 08 0012 0013 0001 0000		
Existing Buildings/Use of Property: Wooded, Building		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:** 16 of 36

<b>Site/Property Information:</b>		
<b>Legal Description:</b> JOCKEY CAMP 47.56 AC		
<b>Physical Address/911 Address:</b> RT2 WEST UNION RT 30/3		
<b>Decimal Latitude/Longitude:</b> 39.304136, -80.738681		
<b>DMS Latitude/Longitude:</b> 39°18'14.89"N, 80°44'19.25"W		
<b>District:</b> 08	<b>Map:</b> 12	<b>Parcel:</b> 17
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 181, page 164		
<b>Tax Map Reference:</b> 09 08 0012 0017 0000 0000		
<b>Existing Buildings/Use of Property:</b> House, Buildings, Driveway, Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:** 17 of 36

<b>Site/Property Information:</b>		
<b>Legal Description:</b> JOCKEY CAMP 126 AC Three TRS		
<b>Physical Address/911 Address:</b> Route 30/3		
<b>Decimal Latitude/Longitude:</b> 39.304272, -80.724522		
<b>DMS Latitude/Longitude:</b> 39°18'15.38"N, 80°43'28.28"W		
<b>District:</b> 08	<b>Map:</b> 12	<b>Parcel:</b> 14
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 337, Page 253		
<b>Tax Map Reference:</b> 09 08 0012 0014 0000 0000		
<b>Existing Buildings/Use of Property:</b> Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			



Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 18 of 36

<b>Site/Property Information:</b>		
Legal Description: MI CREEK 79.46 AC		
Physical Address/911 Address: SMITHBURG RT 50/9		
Decimal Latitude/Longitude: 39.2972, -80.727214		
DMS Latitude/Longitude: 39°17'49.92"N, 80°43'37.97"W		
District: 08	Map: 12	Parcel: 69
Land Book Description:		
Deed Book Reference: Deed Book 246, Page 170		
Tax Map Reference: 09 08 0012 0069 0000 0000		
Existing Buildings/Use of Property: House, Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 19 of 36

<b>Site/Property Information:</b>		
Legal Description: LICK RUN 79.83 AC		
Physical Address/911 Address: Route 50/9		
Decimal Latitude/Longitude: 39.293978, -80.72355		
DMS Latitude/Longitude: 39°17'38.32"N 80°43'24.78"W		
District: 08	Map: 12	Parcel: 70
Land Book Description:		
Deed Book Reference: Deed Book WB37, Page 605		
Tax Map Reference: 09 08 0012 0070 0000 0000		
Existing Buildings/Use of Property: House, Driveway, Well		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:** 20 of 35

<b>Site/Property Information:</b>		
<b>Legal Description:</b> 40.29 AC M I CREEK		
<b>Physical Address/911 Address:</b>		
<b>Decimal Latitude/Longitude:</b> 39.289972, -80.720394		
<b>DMS Latitude/Longitude:</b> 39°17'23.90"N, 80°43'13.42"W		
<b>District:</b> 08	<b>Map:</b> 12	<b>Parcel:</b> 80
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 274, Page 27		
<b>Tax Map Reference:</b> 09 08 0012 0080 0000 0000		
<b>Existing Buildings/Use of Property:</b> Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 21 of 36

<b>Site/Property Information:</b>		
Legal Description: TWO TRKS BUCKEYE FK OF M I CREEK 48.596 AC		
Physical Address/911 Address: ENGLAND RN 50/10		
Decimal Latitude/Longitude: 39.292469, -80.717122		
DMS Latitude/Longitude: 39°17'32.89"N, 80°43'1.64"W		
District: 08	Map: 13	Parcel: 14
Land Book Description:		
Deed Book Reference: Deed Book 274, Page 27		
Tax Map Reference: 09 08 0013 0014 0000 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 22 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE FK OF M I CK 35.63 AC		
Physical Address/911 Address: RT 1 MGVILLE, ENGLANDS RN 50/10		
Decimal Latitude/Longitude: 39.288989, -80.716481		
DMS Latitude/Longitude: 39°17'20.36"N, 80°42'59.33"W		
District: 08	Map: 13	Parcel: 16
Land Book Description:		
Deed Book Reference: Deed Book 274, Page 27		
Tax Map Reference: 09 08 0013 0016 0000 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 23 of 36

<b>Site/Property Information:</b>		
Legal Description: 6.4 AC BUCKEYE FK OF M I CK		
Physical Address/911 Address: BUCKEYE FK OF M I CK		
Decimal Latitude/Longitude: 39.290386, -80.710864		
DMS Latitude/Longitude: 39°17'25.39"N, 80°42'39.11"W		
District: 08	Map: 13	Parcel: 16.3
Land Book Description:		
Deed Book Reference: Deed Book 279, Page 628		
Tax Map Reference: 09 08 0013 0016 0003 0000		
Existing Buildings/Use of Property: Commercial, Storage Yard		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:**   24   of   36  

<b>Site/Property Information:</b>		
<b>Legal Description:</b> 58.55 AC BUCKEYE FK OF M I CREEK		
<b>Physical Address/911 Address:</b>		
<b>Decimal Latitude/Longitude:</b> 39.288242, -80.711692		
<b>DMS Latitude/Longitude:</b> 39°17'17.67"N, 80°42'42.09"W		
<b>District:</b> 08	<b>Map:</b> 13	<b>Parcel:</b> 16.5
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 273, Page 507		
<b>Tax Map Reference:</b> 09 08 0013 0016 0005 0000		
<b>Existing Buildings/Use of Property:</b> Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 25 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE 25A 115 PO		
Physical Address/911 Address: OLD RT #50		
Decimal Latitude/Longitude: 39.284053, -80.712094		
DMS Latitude/Longitude: 39°17'2.59"N 80°42'43.54"W		
District: 08	Map: 13	Parcel: 18
<b>Land Book Description:</b>		
Deed Book Reference: Deed Book 248, page 678		
Tax Map Reference: 09 08 0013 0018 0000 0000		
Existing Buildings/Use of Property: House, Building, Driveway, Farm, Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
<b>Notes:</b>			



Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 26 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE 30.25 AC		
Physical Address/911 Address: ROUTE 50		
Decimal Latitude/Longitude: 39.280708, -80.712372		
DMS Latitude/Longitude: 39°16'50.55"N, 80°42'44.54"W		
District: 08	Map: 17	Parcel: 2
Land Book Description:		
Deed Book Reference: Deed Book WB57, Page 530		
Tax Map Reference: 09 08 0017 0002 0000 0000		
Existing Buildings/Use of Property: Wooded, Well		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 27 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE 4.5 AC		
Physical Address/911 Address: Route 50		
Decimal Latitude/Longitude: 39.280558, -80.714292		
DMS Latitude/Longitude: 39°16'50.01"N, 80°42'51.45"W		
District: 08	Map: 17	Parcel: 2.1
Land Book Description:		
Deed Book Reference: Deed Book WB57, Page 530		
Tax Map Reference: 09 08 0017 0002 0001 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 28 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE 9.87 AC		
Physical Address/911 Address: Off Old Rt 50		
Decimal Latitude/Longitude: 39.282281, -80.715047		
DMS Latitude/Longitude: 39°16'56.21"N, 80°42'54.17"W		
District: 08	Map: 16	Parcel: 6
Land Book Description:		
Deed Book Reference: Deed Book WB57, Page 530		
Tax Map Reference: 09 08 0016 0006 0000 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 29 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE 55.25 AC		
Physical Address/911 Address: ROUTE 1 MORGANSVILLE OLD RT 50		
Decimal Latitude/Longitude: 39.281933, -80.719531		
DMS Latitude/Longitude: 39°16'54.96"N 80°43'10.31"W		
District: 08	Map: 16	Parcel: 05
Land Book Description:		
Deed Book Reference: Deed Book WB57, Page 530		
Tax Map Reference: 09 08 0016 0005 0000 0000		
Existing Buildings/Use of Property: Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:** 30 of 36

<b>Site/Property Information:</b>		
<b>Legal Description:</b> DOUGLAS CAMP 107 AC		
<b>Physical Address/911 Address:</b> OFF RT 18/5 DOUGLAS RUN		
<b>Decimal Latitude/Longitude:</b> 39.274683, -80.71355		
<b>DMS Latitude/Longitude:</b> 39°16'28.86"N, 80°42'48.78"W		
<b>District:</b> 06	<b>Map:</b> 02	<b>Parcel:</b> 01
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 214, Page 644		
<b>Tax Map Reference:</b> 09 06 0002 0001 0000 0000		
<b>Existing Buildings/Use of Property:</b> Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:**   31   of   36  

<b>Site/Property Information:</b>		
<b>Legal Description:</b> BUCKEYE 141.73 AC (Carnegie & G Jackson)		
<b>Physical Address/911 Address:</b> RR1 MORGANSVILLE RT 50		
<b>Decimal Latitude/Longitude:</b> 39.278381, -80.706747		
<b>DMS Latitude/Longitude:</b> 39°16'42.17"N 80°42'24.29"W		
<b>District:</b> 08	<b>Map:</b> 17	<b>Parcel:</b> 3
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 278, Page 427		
<b>Tax Map Reference:</b> 09 08 0017 0003 0000 0000		
<b>Existing Buildings/Use of Property:</b> Wooded, O & G, 1 AC Rented House		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:** 32 of 36

<b>Site/Property Information:</b>		
<b>Legal Description:</b> MEATHOUSE FK 200 AC TWO TRS		
<b>Physical Address/911 Address:</b> OFF RT 18/5 DOUGLAS RUN		
<b>Decimal Latitude/Longitude:</b> 39.272006, -80.705928		
<b>DMS Latitude/Longitude:</b> 39°16'19.22"N, 80°42'21.34"W		
<b>District:</b> 06	<b>Map:</b> 2	<b>Parcel:</b> 2
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 282, Page 657		
<b>Tax Map Reference:</b> 09 06 0002 0002 0000 0000		
<b>Existing Buildings/Use of Property:</b> Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 33 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE 178.48 AC		
Physical Address/911 Address: Route 50		
Decimal Latitude/Longitude: 39.274475, -80.691778		
DMS Latitude/Longitude: 39°16'28.11"N, 80°41'30.40"W		
District: 03	Map: 19	Parcel: 31
Land Book Description:		
Deed Book Reference: Deed Book 346, Page 457		
Tax Map Reference: 09 03 0019 0031 0000 0000		
Existing Buildings/Use of Property: Wooded, Storage O & G		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			



Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

**Property Designation:** 34 of 36

<b>Site/Property Information:</b>		
<b>Legal Description:</b> DOUGLAS CAMP 50 AC		
<b>Physical Address/911 Address:</b> OFF 18/5		
<b>Decimal Latitude/Longitude:</b> 39.269144, -80.716331		
<b>DMS Latitude/Longitude:</b> 39°16'8.92"N, 80°42'58.79"W		
<b>District:</b> 06	<b>Map:</b> 1	<b>Parcel:</b> 8
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Deed Book 0172, page 0052		
<b>Tax Map Reference:</b> 09 06 0001 0008 0000 0000		
<b>Existing Buildings/Use of Property:</b> House, Pond, Building, Wooded		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
<b>Community:</b>	<b>Number:</b>	<b>Panel:</b>	<b>Suffix:</b>
<b>Location (Lat/Long):</b>		<b>Approximate Elevation:</b>	
		<b>Estimated BFE:</b>	
<b>Is the development in the floodway?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Is the development in the floodplain?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____	
<b>Notes:</b>			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 35 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE 40.5 AC		
Physical Address/911 Address: Old RT 50		
Decimal Latitude/Longitude: 39.276344, -80.699617		
DMS Latitude/Longitude: 39°16'34.84"N, 80°41'58.62"W		
District: 03	Map: 19	Parcel: 30
Land Book Description:		
Deed Book Reference: Deed Book 219, Page 49		
Tax Map Reference: 09 03 0019 0030 0000 0000		
Existing Buildings/Use of Property: Wooded, House, Building		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No    Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

*Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)*

Property Designation: 36 of 36

<b>Site/Property Information:</b>		
Legal Description: BUCKEYE 192.68 AC		
Physical Address/911 Address:		
Decimal Latitude/Longitude: 39.272083, -80.684206		
DMS Latitude/Longitude: 39°16'19.5"N, 80°41'3.14"W		
District: 03	Map: 19	Parcel: 32
Land Book Description:		
Deed Book Reference: Deed Book 346 , Page 457		
Tax Map Reference: 09 03 0019 0032 0000 0000		
Existing Buildings/Use of Property: Compressor Station		

<b>Floodplain Location Data: (to be completed by Floodplain Manager or designee)</b>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No   Zone: _____	
Notes:			

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  1  </u> of <u> 36 </u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): John Paul Strickling ETAL		
PO Address: 756 Strickling Farm LN		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  2  </u> of <u>  36  </u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Larry Williams		
PO Address: 393 Martin Ln		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  3  </u> of <u>  36  </u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Christopher J. & Katheryn Salina		
PO Address: PO BOX 98		
City: Lost Creek	State: WV	Zip: 26385
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  4  </u> of <u>  36  </u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Antero Midstream LLC % Altus Group US		
PO Address: PO Box 1092		
City: Sparks Glencoe	State: MD	Zip: 21152
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  5  </u> of <u>  36  </u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Steve T & Sharon A (SURV) Gaspar		
PO Address: 896 Aarons Creek Road		
City: Morgantown	State: WV	Zip: 26508
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		



Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  6  </u> of <u>  36  </u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Robert Sponaugle ETAL		
PO Address: 413 Rock Run Road		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: 7 of 36

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Spencer Enterprises, LLC		
PO Address: P O Box 143		
City: Smithburg	State: WV	Zip: 26436
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable):</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>8</u> of <u>36</u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Frank & Doris E (SURV) Holtz Jr.		
PO Address: 471 Rock Run Rd		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: 9 of 36

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Sharon E Walker & Ronald J Burns		
PO Address: 578 Rock Run Road		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  10  </u> of <u>  36  </u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Tensil D Davis (Life)		
PO Address: 634 Rock Run Road		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  11  </u> of <u>  36  </u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): David E & Amy Jo (SURV) Sponaugle		
PO Address: 63 Harrison DR		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>12-13</u> of <u>36</u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): John Samuel & Peggy June (SURV) Smith		
PO Address: 142 N Sixth Ave		
City: Paden City	State: WV	Zip: 26159
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>14</u> of <u>36</u>
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<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Harold F Robison ET AL C/O Rossie Lowery		
PO Address: 9908 Horton Rd		
City: New Hill	State: NC	Zip: 27562
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		



Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>15</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): George Scott Wycoff		
PO Address: PO Box 102		
City: Smithburg	State: WV	Zip: 26436
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>16</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): George M & Sandra Wycoff		
PO Address: 191 Jockey Camp Road		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>17</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Chad W Johnson		
PO Address: 109 Platinum DR STE 1		
City: Bridgeport	State: WV	Zip: 26330
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>18</u> of <u>36</u>
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<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Eric W & Michele D (SURV) Britton		
PO Address: P O Box 204		
City: Smithburg	State: WV	Zip: 26436
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

Crossings

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>19</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Mark Raymond Smith		
PO Address: 450 Mason Ln		
City: Loudon	State: TN	Zip: 37774-1047
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

Crossings

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>20-22</u> of <u>36</u>
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<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Big "D" Enterprises LLC		
PO Address: P O Box 351		
City: Salem	State: WV	Zip: 26426
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>23</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Hall Drilling LLC		
PO Address: P O Box 249		
City: Ellenboro	State: WV	Zip: 26346
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>24</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Rodney L. Wasmer		
PO Address: 2220 Coralthorn Rd		
City: Baltimore	State: MD	Zip: 21220
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		



Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  25  </u> of <u>  36  </u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Frank W & Donna K (SURV) Race Jr.		
PO Address: 4274 Smithton Rd		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>26-29</u> of <u>36</u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Ruby C Ballenger		
PO Address: 3802 Smithton Road		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>30</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Ronald L Law		
PO Address: 472 Tent Church Rd		
City: Colliers	State: WV	Zip: 26035
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: 31 of 36

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Helen Jane Jones Credit Trust c/o Janet Elms		
PO Address: 6138 S Marion Avenue		
City: Tulsa	State: OK	Zip: 74136
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>32</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Robert C & Arlene R (SURV) (LIFE) Bland		
PO Address: 4101 WV RT 18 S		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>33 &amp; 36</u> of <u>36</u>
---

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): <b>Markwest Liberty Midstream &amp; Resources LLC</b>		
PO Address: <b>1515 Arapahoe St Tower 1 STE 1</b>		
City: <b>Denver</b>	State: <b>CO</b>	Zip: <b>80202</b>
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>34</u> of <u>36</u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Ralph Lacy ET UX		
PO Address: 775 Douglas Run Rd		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

*Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

Property Designation: <u>  35  </u> of <u>  36  </u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): George R Gore		
PO Address: 5116 Smithton Rd		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		



## Doddridge County Commercial/Industrial Floodplain Development Permit Application

### Contractor Data:

*Please provide all pertinent data for contractors and sub-contractors that may be participating in this project. Use additional copies of this page as needed. Designate each page in relation to each property listed above.*

**Property Designation:** \_\_\_ of \_\_\_

<b>Contractor/Sub-Contractor (C/SC) Information:</b>		
C/SC Company Name:		
C/SC WV License Number:		
C/SC FEIN:	C/SC DUNS:	
Local C/SC Point of Contact (POC):		
Local C/SC POC Title:		
C/SC Mailing Address:		
City:	State:	Zip-Code:
Local C/SC Office Phone:		
Local C/SC POC Phone:		
Local C/SC POC E-Mail:		

<b>Engineer Firm Information:</b>		
Engineer Firm Name:		
Engineer WV License Number:		
Engineer Firm FEIN:	Engineer Firm DUNS:	
Engineer Firm Primary Point of Contact (POC):		
Engineer Firm Primary POC Title:		
Engineer Firm Mailing Address:		
City:	State:	Zip-Code:
Engineer Firm Office Phone:		
Engineer Firm Primary POC Phone:		
Engineer Firm Primary POC E-Mail:		

### Adjacent and/or Affected Landowners Data

Please provide data for all adjacent and/or affected surface owners (both up and down stream) whose property may be impacted by proposed development as demonstrated by a floodplain study or survey. Use additional copies of this page as needed.

<b>Adjacent Property Owner Data: Upstream</b>		
Name of Primary Owner (PO): Rachal Mercado		
Physical Address: 129 Englands Rd		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Adjacent Property Owner Data: Upstream</b>		
Name of Primary Owner (PO): Hall Drilling LLC		
Physical Address: P O Box 249 (Englands Run)		
City: Ellenboro	State: WV	Zip: 26346
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Adjacent Property Owner Data: Downstream</b>		
Name of Primary Owner (PO): West Virginia Department of Transportation, Div of Highways		
Physical Address: I-79 & Meadowbrook Road		
City: Clarksburg	State: WV	Zip: 26302
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Adjacent Property Owner Data: Downstream</b>		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

## Site Plan

**A Site Plan is an accurate and detailed map of the proposed development for this project.** It shows the size, shape, location and special features of the project property, and the size and location of any development planned to the property, especially as that development will impact the floodplain and/or floodway. Site plans show what currently exists on the project property, and any changes or improvements you are proposing to make. **A certified and licensed engineering firm should complete site plans.**

### **A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:**

1. Legal description of the parcel, north arrow and scale
2. All property lines and their dimensions
3. Names of adjacent roads, location of driveways
4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
6. Location and dimensions of existing or proposed on-site sewage systems.
7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
9. Location and dimensions of any roadway development into floodplain/floodway. *(Includes initial development accessroads)*
10. Location and dimensions of any bridge and/or culvert development into floodplain/floodway.
11. Location and dimensions of any storage yard or facility into the floodplain/floodway.
12. Location of any existing utilities and/or proposed utility placement and/or displacement.
13. Location, dimensions and depth of any existing or proposed fill on site.
14. A survey showing the **existing ground elevations** of at least location on the building site. **ELEVATION NOTE:** All vertical datum will reference either NGVD 29 or NAVD 88. Assumed datum will not be acceptable unless the property is located in an area where vertical datum has not been published. For those areas where vertical datum has not been established, a site plan with contours, elevations using assumed datum, high water marks and existing water levels of sloughs, rivers, lakes or streams and proposed lowest floor elevation.

## **Applicant**

*Please read print name, sign and date below:*

- I certify that I am authorized to submit this application for the primary project developer.
- I certify that the information included in this application is to the best of my knowledge true and complete.
- I certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have been properly attained, are current and valid, and must be presented with this application before a Doddridge County Floodplain Permit may be issued.
- I understand that if in the course of the development project additional permits become required that were not needed during the initial proposal, the primary developer must notify the Doddridge County Floodplain Manager within 48 hours of such need, and that a "Stop Work" order may be issued for all project work directly impacting the floodplain or floodway, until such time the required additional permits are acquired.
- I understand that once the floodplain permit is submitted, the application will be entered into official public record at the next regularly scheduled Doddridge County Commission meeting after the date of submittal.
- I understand that from the date of submittal of the fully completed permit application, the Doddridge County Floodplain Manager has ninety (90) days to make a determination to either grant or deny said permit application. During this approval period, the Doddridge County Floodplain Manager may, at his or her discretion, conduct a review and/or additional study of provided documentation by means of an independent engineering firm. All costs associated with said review and/or study must be reimbursed to the County before issuance of approved permit.
- I understand that during the approval period, the Doddridge County Floodplain Manager or designee may at his or her discretion conduct site visits and document conditions of proposed development pursuant to the permit application.
- I understand that once the Floodplain Permit is granted, the permit will be entered into official public record at the next scheduled Doddridge County Commission meeting after the date of issuance. Appeals to the permit may be made no later than twenty (20) days after said issuance. If a valid appeal is submitted, as determined by the Doddridge County Floodplain Manager, a "Stop Work" order will be issued for all project development directly involving the floodplain or floodway. A public hearing by the Doddridge County Appeals Board will be scheduled no less than ten (10) days after the next regularly scheduled Doddridge County Commission meeting.
- I understand that all decisions of the Doddridge County Appeals Board shall be final.
- I understand issuance of a Floodplain Permit authorizes me to proceed with construction as proposed. A Certificate of Compliance is required upon substantial completion of the project.
- In signing this application, the primary developer hereby grants the Doddridge County Floodplain Manager or designee the right to enter onto the above-described location to inspect the development work proposed, in progress, and/or completed.
- I understand that if I do not follow exactly the site-plan submitted and approved by this permit that a "Stop Work" order may be issued by the Wirt County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

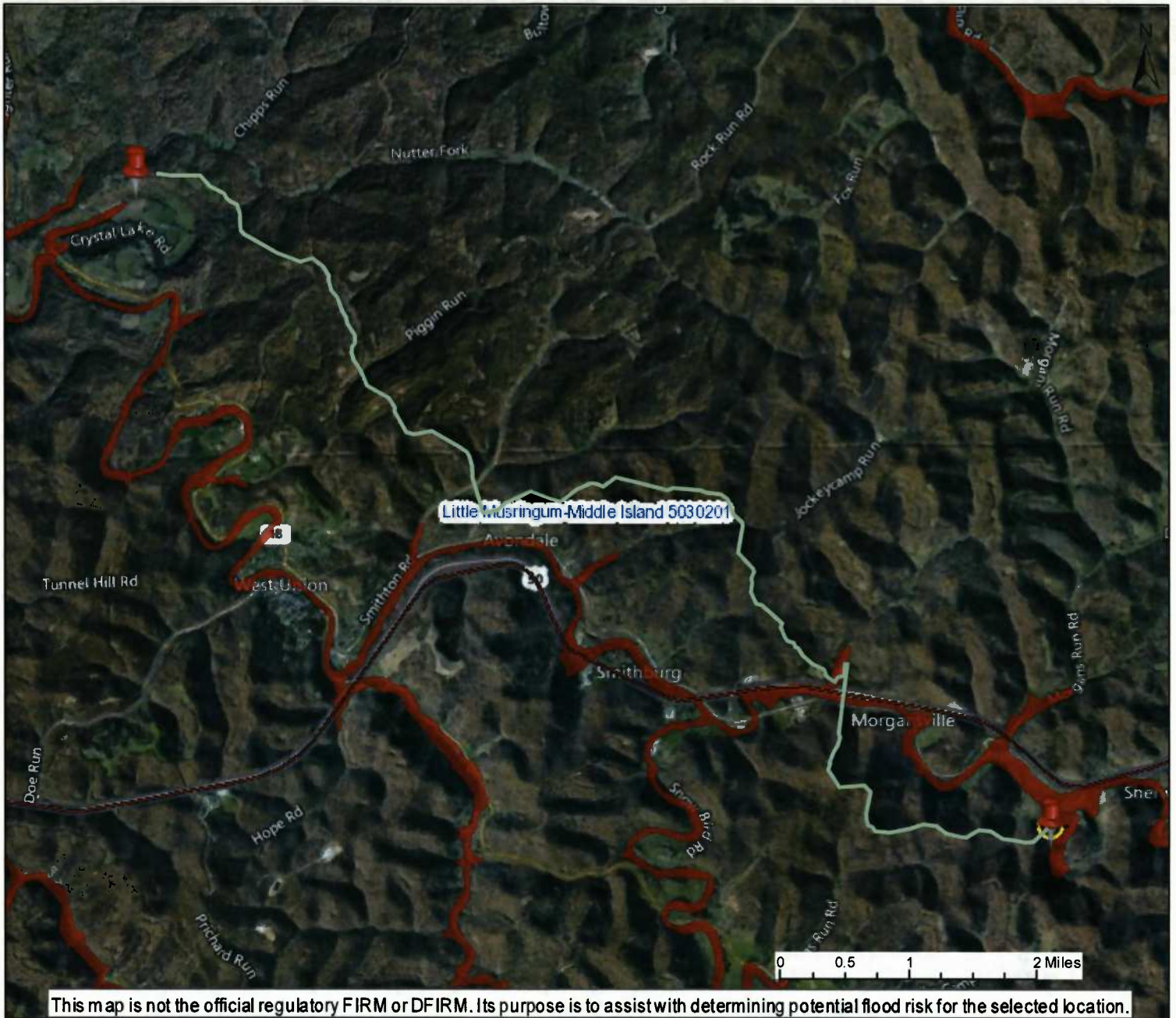
Applicant Signature: \_\_\_\_\_

Date: 7-12-17

Applicant Printed Name: \_\_\_\_\_

Brian Guarners

# WV Flood Map



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

**User Notes:**  
 Antero Midstream LLC  
 STRICKLING PIPELINE  
 AFE #A05924

Map created on June 26, 2017

**Flood Hazard Area:**  
 Flood Hazard Area: Location is NOT WITHIN identified flood hazard area, but within 75 feet of an

**FEMA Issued Flood Map:** 54017C0140C

**Watershed (HUC8):** Little Musringum-Middle Island (5

**Elevation:** About 855 ft

**Location (long, lat):** (80.689640 W, 39.275114 N)

**Location (UTM 17N):** (526771, 4347352)

**Contacts:** Doddridge

**CRS Information:** N/A

**Parcel Number:** No Parcel

 Flood Hazard Zone

 Flood Point of Interest

**Disclaimer:**

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at [www.msc.fema.gov](http://www.msc.fema.gov). WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.



July 10, 2017

Doddridge County Commission  
Attn: George Eidel, Doddridge County Floodplain Manager  
118 East Court Street, Room 102  
West Union, WV 26456

Subject: Antero Midstream, LLC.  
Strickling Pipeline (AFE #A05924)  
No-Rise Certificate  
Doddridge County, West Virginia  
CEC Project 172-925

Civil & Environmental Consultants, Inc. (CEC) is pleased to evaluate the potential floodplain impacts for the above referenced project on behalf of Antero Midstream, LLC., 535 White Oaks Blvd, Bridgeport, WV 26330. Antero Midstream, LLC proposes to install a 30" High Pressure Steel Gas Line and a 20" and 16" Low Pressure Steel Gas Line. A portion of the proposed project is located within the Middle Island Creek Zone A Flood Hazard area, according to the Flood Insurance Rate Map (FIRM) for Doddridge County, map panel 54017C0140C with a revised date of October 4, 2011. The proposed work that will take place in the floodplain includes the installation of permanent water bars, upgrading existing pipeline access roads, and the installation of the pipelines. The material needed to construct the permanent water bars will be excavated from the up-gradient side of the berm. Therefore, a net loss of floodplain storage is not expected. All other disturbed areas will be returned to existing conditions at the conclusion of the work. The crossing of U.S. 50 and the Middle Island Creek Zone AE Flood Hazard Area will be performed using Radial HDD Bore Methods. As a result, the project will not result in a decrease of the available floodplain storage area and will not adversely affect the existing base flood elevation of Middle Island Creek.

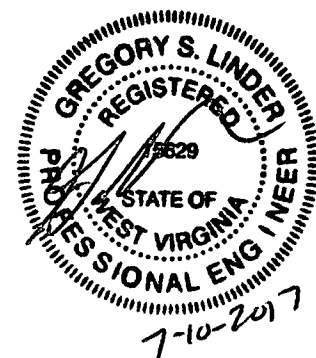
This no-rise certificate is provided in support of the floodplain development permit application. Your time and effort in reviewing this floodplain development permit application is appreciated. Please feel free to contact me at 304-933-3119 or via e-mail at [glinder@cecinc.com](mailto:glinder@cecinc.com) or contact Ms. Rachel Grzybek at 304-842-4008 or via e-mail at [rgrzybek@anteroresources.com](mailto:rgrzybek@anteroresources.com) if you have questions or need additional information.

Respectfully submitted,

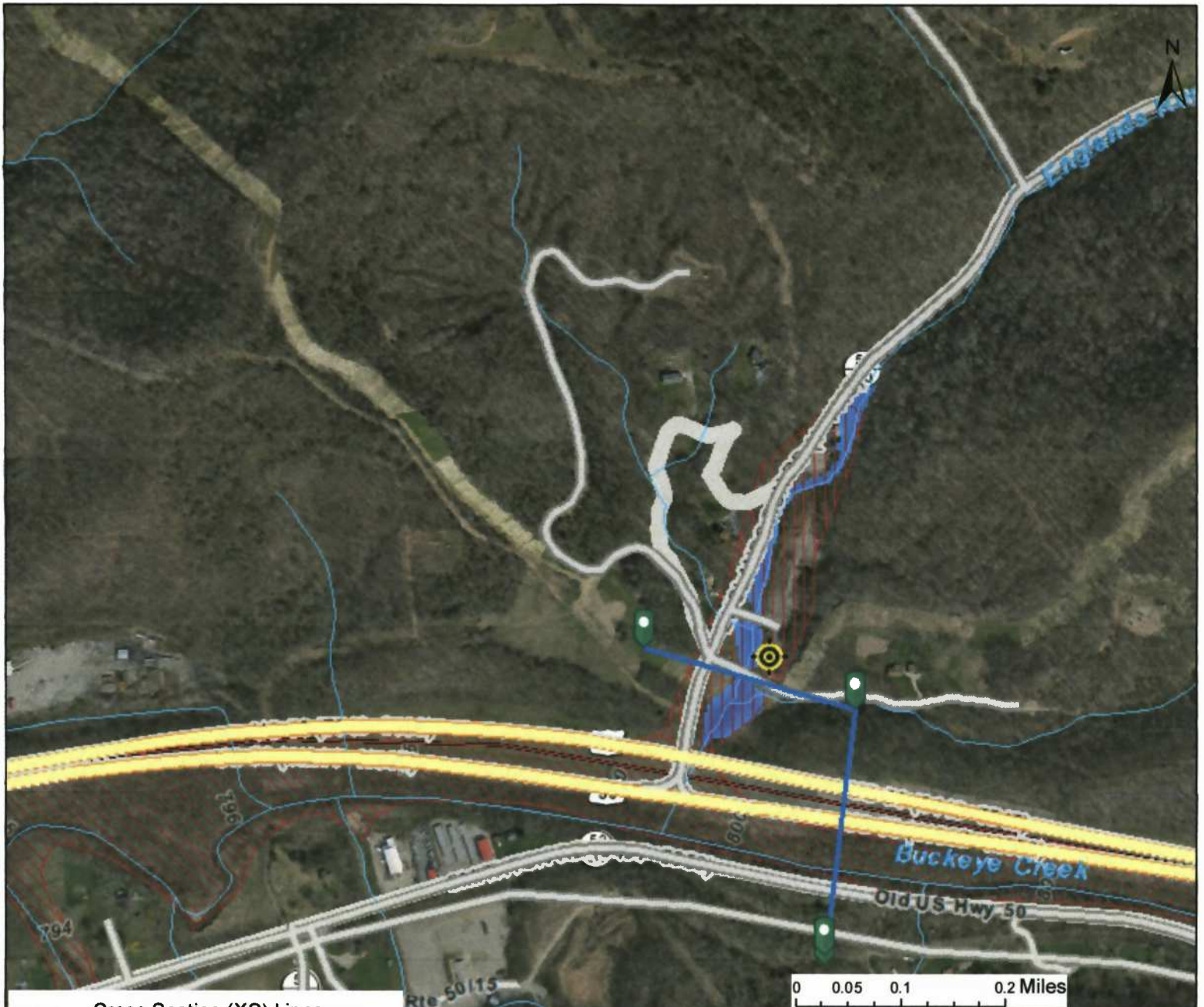
CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Andrew P. Darnell, E.I.  
Assistant Project Manager

Greg S. Linder, P.E.  
Senior Project Manager



# WV Flood Map



- Cross Section (XS) Lines
- Base Flood Elevation (BFE) Lines

 Floodway

 Location of flood information

User Notes:

### Flood Hazard Zone

 Approximate Study (Zone A)

 Detailed Study (AE, AH, AO)

 High : 134.442

 Low : -7.71759

### Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at [www.msc.fema.gov](http://www.msc.fema.gov).

WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

0 0.05 0.1 0.2 Miles

or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map created on July 25, 2017

### Flood Hazard Area:

Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.

**Flood Hazard Zone:** A

**Stream:** Englands Run

**FEMA Issued Flood Map:** 54017C0140C

**Watershed (HUC8):** Little Musringum-Middle Island (5030

**Advisory Flood Height:** N/A

**Water Depth:** N/A

**Elevation:** About 814 ft

**Location (long, lat):** (80.713529 W, 39.288388 N)

**Location (UTM 17N):** (524705, 4348818)

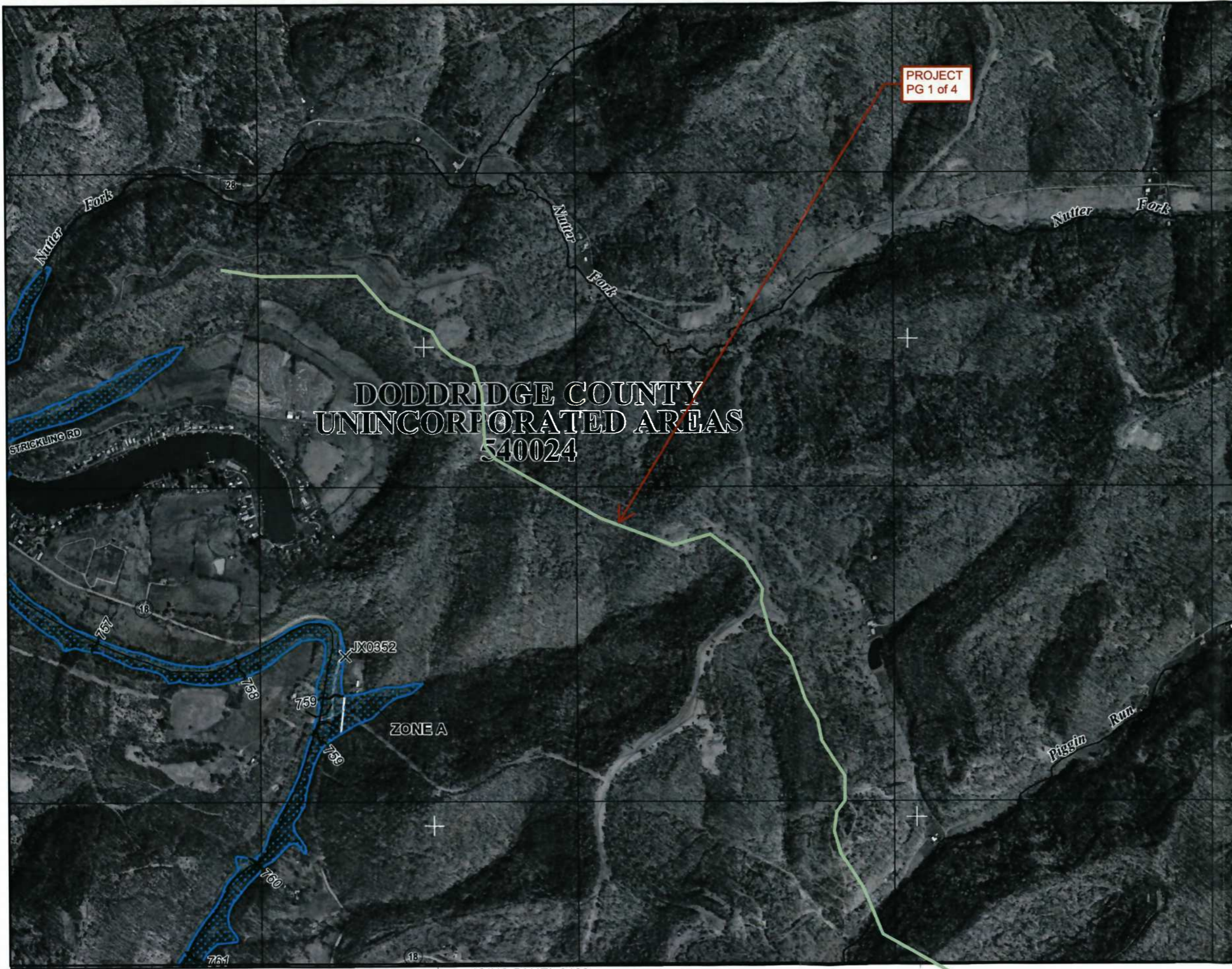
**Contacts:** Doddridge

**CRS Information:** N/A

**Flood Profile:** N/A

**HEC-RAS Model:** Englands Run

**Parcel Number:** No Parcel



MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0110C


**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**DODDRIDGE COUNTY,**  
**WEST VIRGINIA**  
**AND INCORPORATED AREAS**

PANEL 110 OF 325  
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0110	C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

 MAP NUMBER  
 54017C0110C  
 MAP REVISED  
 OCTOBER 4, 2011  
 Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

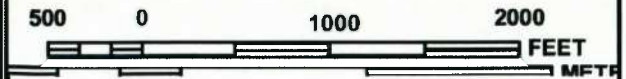




PROJECT  
PG 2 of 4



MAP SCALE 1" = 1000'



PANEL 0120C


**FIRM**  
FLOOD INSURANCE RATE MAP  
DODDRIDGE COUNTY,  
WEST VIRGINIA  
AND INCORPORATED AREAS

PANEL 120 OF 325  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

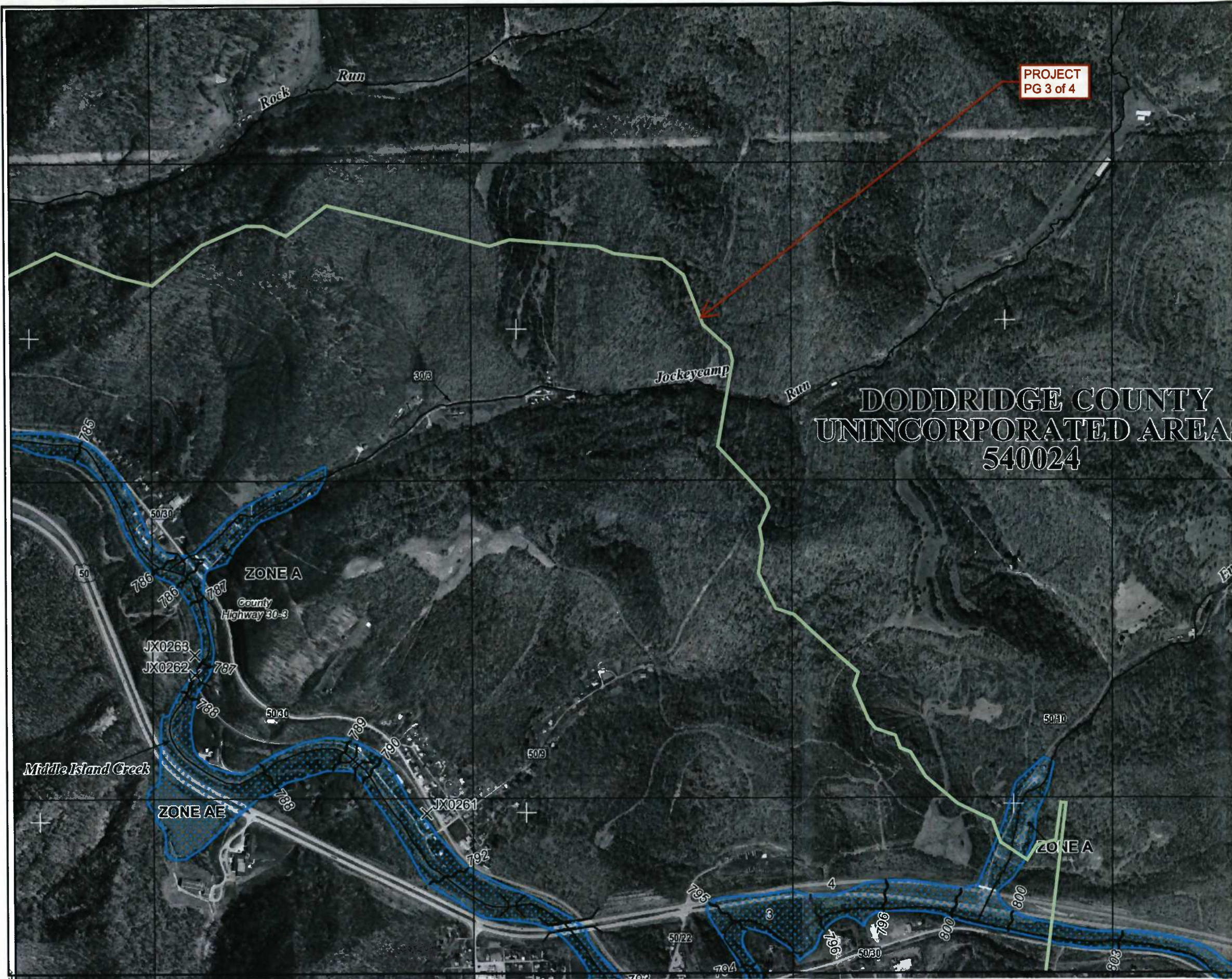
CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0120	C
WEST UNION, TOWN OF	540025	0120	C

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

  
**MAP NUMBER**  
 54017C0120C  
**MAP REVISED**  
 OCTOBER 4, 2011  
 Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)



**DODDRIDGE COUNTY  
UNINCORPORATED AREAS  
540024**



MAP SCALE 1" = 1000'

500 0 1000 2000  
FEET

**NFP**

PANEL 0140C

**FIRM**

**FLOOD INSURANCE RATE MAP  
DODDRIDGE COUNTY,  
WEST VIRGINIA  
AND INCORPORATED AREAS**

PANEL 140 OF 325  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0140	C

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

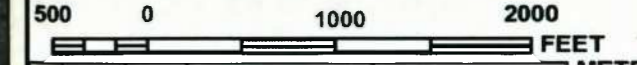
**MAP NUMBER**  
 54017C0140C  
**MAP REVISED**  
 OCTOBER 4, 2011  
 Federal Emergency Management Agency

**NATIONAL FLOOD INSURANCE PROGRAM**

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.mec.fema.gov](http://www.mec.fema.gov)



MAP SCALE 1" = 1000'



PROJECT  
PG 4 of 4

DODDRIDGE COUNTY  
UNINCORPORATED AREAS  
540024

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0140C

**FIRM**  
FLOOD INSURANCE RATE MAP  
DODDRIDGE COUNTY,  
WEST VIRGINIA  
AND INCORPORATED AREAS

PANEL 140 OF 325  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0140	C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER  
54017C0140C  
MAP REVISED  
OCTOBER 4, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.msc.fema.gov](http://www.msc.fema.gov)

# ANTERO MIDSTREAM LLC

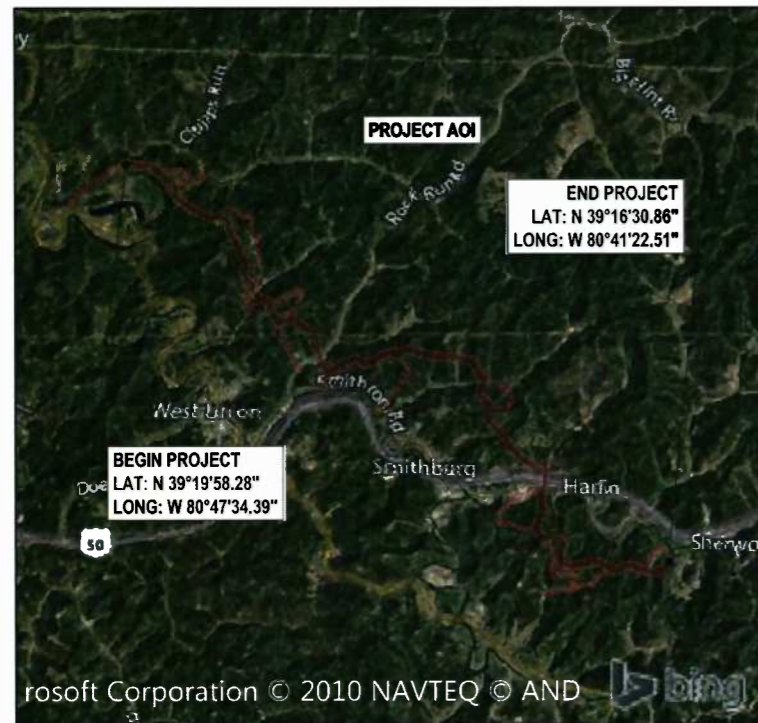
## ISSUED FOR PERMITTING PLANS FOR THE STRICKLING PIPELINE

### PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" AND 16" LOW PRESSURE STEEL GAS LINES

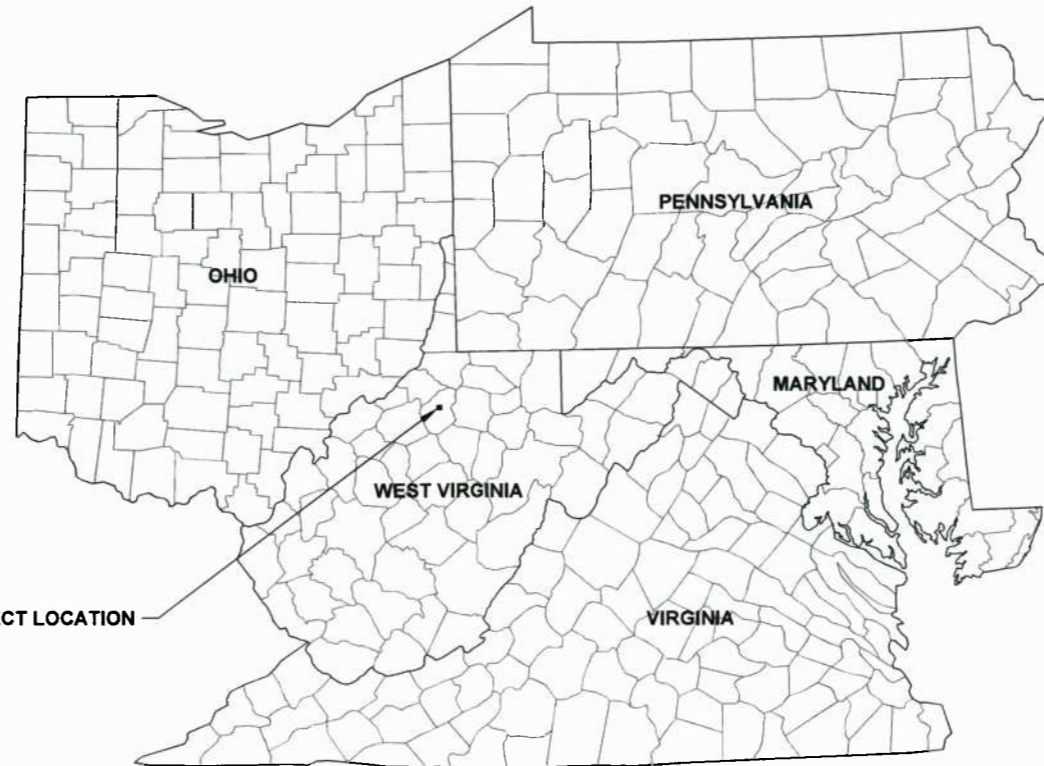
#### AFE #A05924 101-050-6321

#### DODDRIDGE COUNTY, WEST VIRGINIA JUNE 2017

AERIAL MAP



**VICINITY MAP**  
FULL SCALE: 1"=5,000'  
HALF SCALE: 1"=10,000'



PROJECT LOCATION



PHONE: (303) 357-7310 | FAX: (303) 357-7315  
1615 WYNKOOP STREET  
DENVER, CO 80202

ENGINEER OF RECORD



PHONE: (304) 624-4108 | FAX: (304) 624-7831  
600 WHITE OAKS BLVD., P.O. BOX 940  
BRIDGEPORT, WV 26330

**EXISTING INFORMATION SOURCES**

BASE CONTOUR DATA PROVIDED BY THE WEST VIRGINIA OFFICE OF GIS AT TWO FOOT CONTOUR INTERVALS.

SUPPLEMENTAL SPOT ELEVATIONS AND ALIGNMENT PROVIDED BY:

THE THRASHER GROUP  
600 WHITE OAKS BLVD., P.O. BOX 940  
BRIDGEPORT, WV 26330

BENCHMARK:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, US SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), US SURVEY FOOT

ROAD DESIGNATIONS OBTAINED FROM WV-DOH  
(<http://www.transportation.wv.gov>)

**PLAN REPRODUCTION WARNING**

THESE PLANS ARE INTENDED TO BE PLOTTED ON ANSI D (22" x 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.  
THESE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THESE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.  
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*Matthew W. Fluarty*  
MATTHEW W. FLUHARTY, WV P.E. # 16375

ISSUED FOR PERMITS      DATE: 6/7/17      BY: *MSF*  
 ISSUED FOR CONSTRUCTION      DATE: \_\_\_\_\_      BY: \_\_\_\_\_

LAYOUT TAB: COVER      USER: jared d. Jenkins      PLOT DATE/TIME: 6/7/2017 1:47 PM      CAD FILE: R:\050-6321-WC HP LOOP PHASE 2-ANTERO-Survey\PLANS\COVER SHEET.dwg





STA. 0+00 BEGIN 30" HIGH PRESSURE & 20" LOW PRESSURE STEEL GAS LINES  
LAT: N 39°19'58.28"  
LONG: W 80°47'34.39"

STA. 245+41 END 20" LOW PRESSURE STEEL GAS LINE  
LAT: N 39°18'18.88"  
LONG: W 80°43'56.22"

STA. 475+34 END 30" HIGH PRESSURE STEEL GAS LINE  
LAT: N 39°16'30.86"  
LONG: W 80°41'22.51"

ROAD #	LAT	LONG	LENGTH (FT)
1A	N 39°19'33.95"	W 80°48'11.22"	9,485
1B	N 39°19'55.05"	W 80°47'05.82"	1,608
1C	N 39°19'54.25"	W 80°46'41.63"	PART OF 1A
2	N 39°19'05.45"	W 80°46'01.97"	5,321
3A	N 39°18'44.39"	W 80°46'08.88"	3,051
3B	N 39°18'51.72"	W 80°46'08.58"	102
4A	N 39°18'39.68"	W 80°46'10.76"	1,094
4B	N 39°18'45.78"	W 80°46'04.96"	481
5A	N 39°18'11.05"	W 80°45'34.83"	7,464
5B	N 39°18'27.55"	W 80°45'48.59"	2,851
6A	N 39°18'01.13"	W 80°45'20.79"	837
6B	N 39°18'08.29"	W 80°45'16.11"	1,333
7	N 39°17'50.75"	W 80°44'38.70"	5,150
8	N 39°18'06.00"	W 80°43'27.38"	250
9	N 39°18'05.98"	W 80°43'28.49"	141
10	N 39°18'04.91"	W 80°43'19.17"	3,469
11	N 39°17'18.22"	W 80°42'51.68"	623
12	N 39°17'18.22"	W 80°42'51.68"	331
13	N 39°17'19.98"	W 80°42'50.64"	114
14	N 39°17'07.60"	W 80°43'11.47"	2,380
15	N 39°17'07.31"	W 80°43'12.57"	4,087
16A	N 39°16'12.59"	W 80°42'47.30"	6,241
16B	N 39°16'22.73"	W 80°42'39.71"	798
16C	N 39°16'17.11"	W 80°42'25.41"	2,749
17A	N 39°16'52.82"	W 80°41'36.44"	5,488
17B	N 39°16'36.80"	W 80°41'23.99"	1,896

USER: jones.d.jenkins  
PLOT DATE/TIME: 6/20/2017 9:49 AM  
LAYOUT TAB: INDEX  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\INDEX SHEET.dwg

**THRASHER**

HORIZ. SCALE IN FEET

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

REVISION		
NO.	DESCRIPTION	DATE
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

**GENERAL INFORMATION**

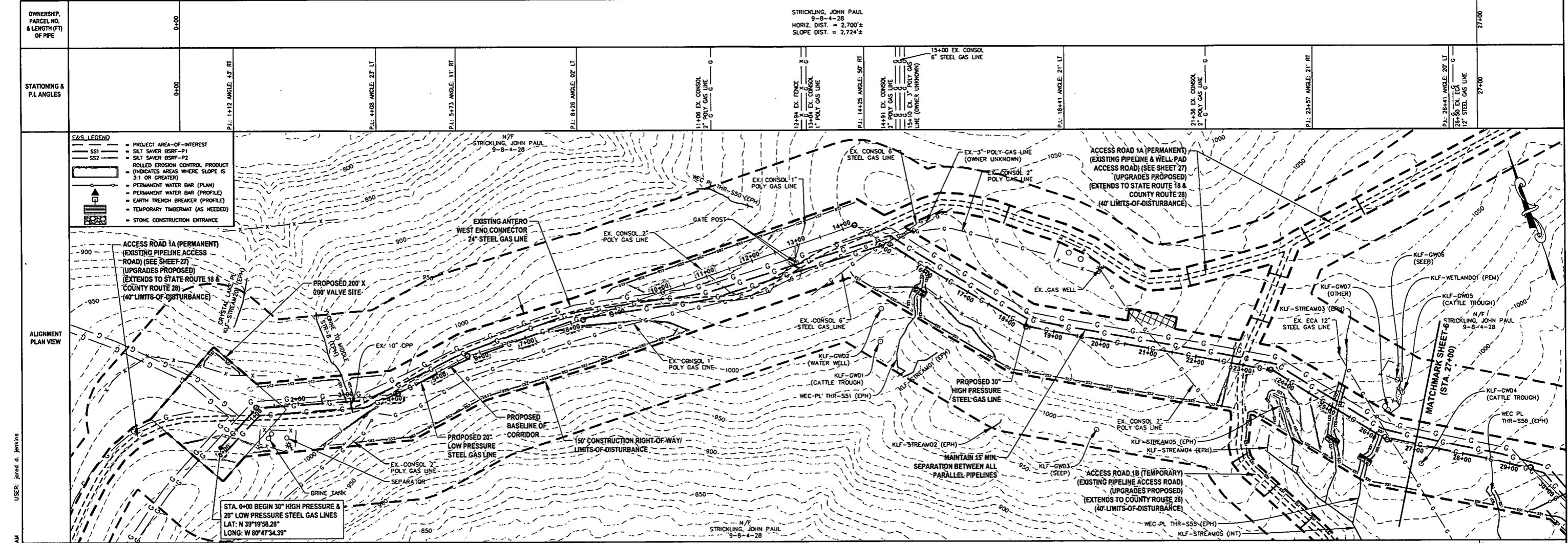
- MAPPING SOURCE: WEST UNION, WV & SMITHBURG, WV USGS 7.5 MINUTE QUADRANGLES DATED 2014.
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE INDEX SHEET**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924  
SCALE: AS SHOWN  
DRAWN BY: JDA, RJA (TJ)  
CHECKED BY: JDA, RJA (TJ)  
SHEET 04  
SHT. NAME: 050-6321\STRICKLING\INDEX  
REV. 2

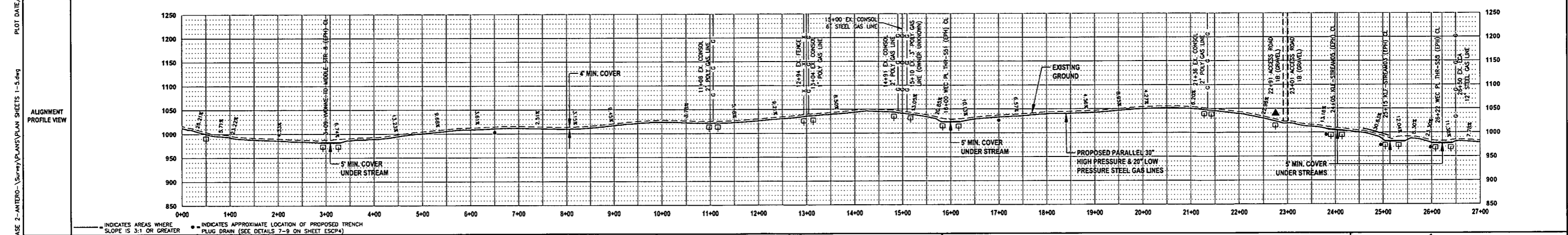
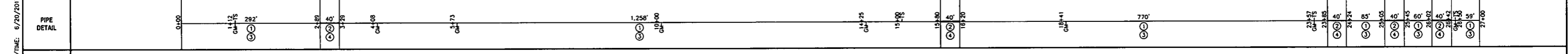


STRICKLING, JOHN PAUL  
 9-B-4-28  
 HORIZ. DIST. = 2,700'±  
 SLOPE DIST. = 2,724'±

**EAS LEGEND**

- PROJECT AREA-OF-INTEREST
- SILT SAVER BSRF-P1
- SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- PERMANENT WATER BAR (PLAN)
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- TEMPORARY TIMBERMAT (AS NEEDED)
- STONE CONSTRUCTION ENTRANCE

DESIGN CLASS	CLASS 1
--------------	---------



**THRASHER**

IFP

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'

VERT. SCALE IN FEET: 1" = 200'

SUMMARY OF MATERIALS (3D)	
1 30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,524 LF
2 30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	200 LF
3 20" STEEL API 5L PSL-2, X-60, 0.375" WALL, FBE COATED PIPE	2,524 LF
4 20" STEEL API 5L PSL-2, X-60, 0.500" WALL, ARO COATED PIPE	200 LF
RECP ROLLED EROSION CONTROL PRODUCT	116,799 SF
SS1 SILT SAVER BSRF-P1	2,112 LF
SS2 SILT SAVER BSRF-P2	2,041 LF
TB EARTH TRENCH BREAKERS	40
WB PERMANENT WATERBARS	1
GM GAS LINE MARKERS	16
TS TEST STATIONS	8
NO. DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)	
NO. DESCRIPTION	QTY

REVISION			
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JJA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	RA

- ### GENERAL INFORMATION
1. PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
  2. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  3. ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  4. BASELINE STATION DEPICED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  5. FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  6. THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION. A FULL PROPERTY SURVEY IS RECOMMENDED.
  7. ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  8. ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  9. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS. REFER TO GRAPHIC SCALE.
  10. FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 0+00 TO STA. 27+00

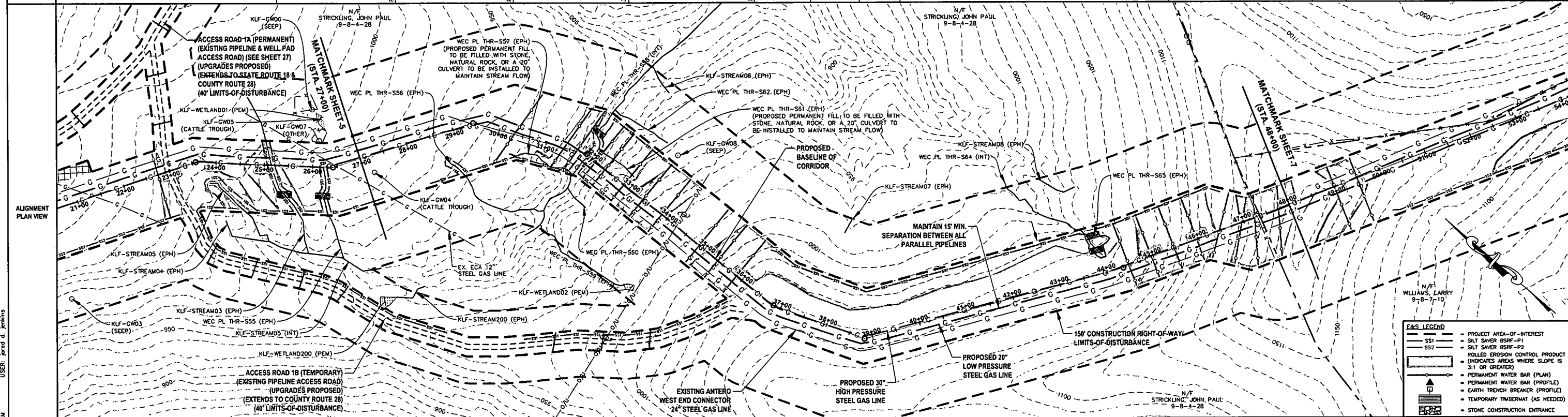
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

SHEET 05  
SHT. NAME: 050-6321\STRICKLING\PLAN1 REV. 2

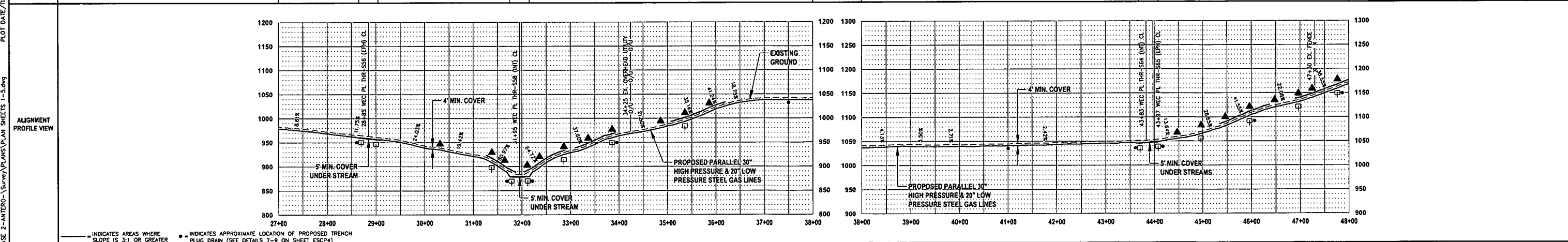
LAYOUT TAB: PLAN1  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLAN\SHEET1-3.dwg  
 PLOT DATE/TIME: 6/20/2017 10:07 AM  
 USER: jared.d.jenkins



OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	27+00	STRICKLING, JOHN PAUL 9-8-4-28 HORIZ. DIST. = 1,100'± SLOPE DIST. = 1,152'±	38+00	SEPARATION IN PROFILE	38+00	STRICKLING, JOHN PAUL 9-8-4-28 HORIZ. DIST. = 935'± SLOPE DIST. = 951'±	48+00	WILLIAMS, LARRY 9-8-7-10 HORIZ. DIST. = 65'± SLOPE DIST. = 69'±	48+00
STATIONING & P.I. ANGLES	27+00	P.I. 29+44 ANGLE: 33° RT	P.I. 31+85 ANGLE: 24° RT	P.I. 34+25 (OVERHEAD UNIT)	P.I. 36+84 ANGLE: 19° LT	P.I. 38+83 ANGLE: 35° LT	P.I. 44+34 ANGLE: 65° LT	47+35 EX. FENCE	48+00



DESIGN CLASS	CLASS 1		CLASS 1	
LOCATION	27+00		48+00	
PIPE DETAIL	166'	28+65	618'	412'



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

0 100 200  
HORIZ. SCALE IN FEET

0 100 200  
VERT. SCALE IN FEET

SUMMARY OF MATERIALS (3D)		SUMMARY OF MATERIALS (3D)	
①	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,052 LF	
②	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	120 LF	
③	20" STEEL API 5L PSL-2, X-60, 0.375" WALL, FBE COATED PIPE	2,052 LF	
④	20" STEEL API 5L PSL-2, X-60, 0.500" WALL, ARO COATED PIPE	120 LF	
RECP	ROLLED EROSION CONTROL PRODUCT	115,684 SF	
SS1	SILT SAVER BSRF-P1	2,108 LF	
SS2	SILT SAVER BSRF-P2	335 LF	
TB	EARTH TRENCH BREAKERS	28	
WB	PERMANENT WATERBARS	19	
GM	GAS LINE MARKERS	12	
TS	TEST STATIONS	6	
NO.	DESCRIPTION	QTY	

REVISION	
1	REVISED PER COMMENTS FROM ANTERO 06/07/17 JJA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC. 06/20/17 JJA

GENERAL INFORMATION	
1. PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig	6. THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
2. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	7. ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
3. ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	8. ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
4. BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.	9. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
5. FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	10. FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 27+00 TO STA. 48+00

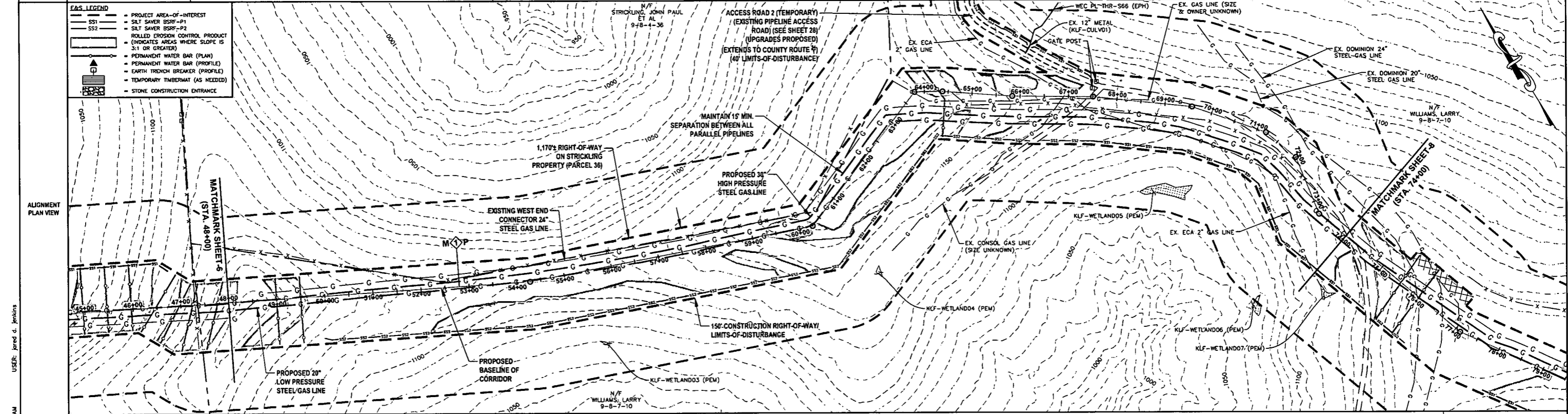
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JJA (TIG)  
CHECKED: AR, JRI (TIG)

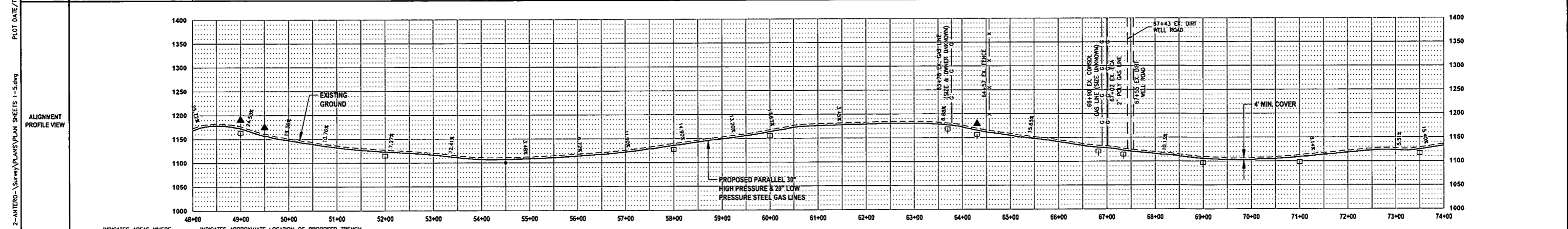
SHEET 06  
SHT. NAME: 050-6321\STRICKLING\PLAN2  
REV. 2

LAYOUT TAB: PLAN2  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 1-5.dwg  
PLOT DATE/TIME: 6/20/2017 10:13 AM  
USER: jared.d.jenkins

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	48+00	48+100	48+200	48+300	48+400	48+500	48+600	48+700	48+800	48+900	49+000	49+100	49+200	49+300	49+400	49+500	49+600	49+700	49+800	49+900	50+000	50+100	50+200	50+300	50+400	50+500	50+600	50+700	50+800	50+900	51+000	51+100	51+200	51+300	51+400	51+500	51+600	51+700	51+800	51+900	52+000	52+100	52+200	52+300	52+400	52+500	52+600	52+700	52+800	52+900	53+000	53+100	53+200	53+300	53+400	53+500	53+600	53+700	53+800	53+900	54+000	54+100	54+200	54+300	54+400	54+500	54+600	54+700	54+800	54+900	55+000	55+100	55+200	55+300	55+400	55+500	55+600	55+700	55+800	55+900	56+000	56+100	56+200	56+300	56+400	56+500	56+600	56+700	56+800	56+900	57+000	57+100	57+200	57+300	57+400	57+500	57+600	57+700	57+800	57+900	58+000	58+100	58+200	58+300	58+400	58+500	58+600	58+700	58+800	58+900	59+000	59+100	59+200	59+300	59+400	59+500	59+600	59+700	59+800	59+900	60+000	60+100	60+200	60+300	60+400	60+500	60+600	60+700	60+800	60+900	61+000	61+100	61+200	61+300	61+400	61+500	61+600	61+700	61+800	61+900	62+000	62+100	62+200	62+300	62+400	62+500	62+600	62+700	62+800	62+900	63+000	63+100	63+200	63+300	63+400	63+500	63+600	63+700	63+800	63+900	64+000	64+100	64+200	64+300	64+400	64+500	64+600	64+700	64+800	64+900	65+000	65+100	65+200	65+300	65+400	65+500	65+600	65+700	65+800	65+900	66+000	66+100	66+200	66+300	66+400	66+500	66+600	66+700	66+800	66+900	67+000	67+100	67+200	67+300	67+400	67+500	67+600	67+700	67+800	67+900	68+000	68+100	68+200	68+300	68+400	68+500	68+600	68+700	68+800	68+900	69+000	69+100	69+200	69+300	69+400	69+500	69+600	69+700	69+800	69+900	70+000	70+100	70+200	70+300	70+400	70+500	70+600	70+700	70+800	70+900	71+000	71+100	71+200	71+300	71+400	71+500	71+600	71+700	71+800	71+900	72+000	72+100	72+200	72+300	72+400	72+500	72+600	72+700	72+800	72+900	73+000	73+100	73+200	73+300	73+400	73+500	73+600	73+700	73+800	73+900	74+000
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DESIGN CLASS	CLASS 1
LOCATION	
PIPE DETAIL	



# IFP

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

SUMMARY OF MATERIALS (3D)	
① 30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,620 LF
② 20" STEEL API 5L PSL-2, X-60, 0.375" WALL, FBE COATED PIPE	2,620 LF
RECP ROLLED EROSION CONTROL PRODUCT	86,292 SF
SS1 SILT SAVER BSRF-P1	589 LF
SS2 SILT SAVER BSRF-P2	1,708 LF
TB EARTH TRENCH BREAKERS	22
WB PERMANENT WATERBARS	3
GM GAS LINE MARKERS	20
TS TEST STATIONS	2

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

- ### GENERAL INFORMATION
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig.
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT.
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

## STRICKLING PIPELINE

### STA. 48+00 TO STA. 74+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

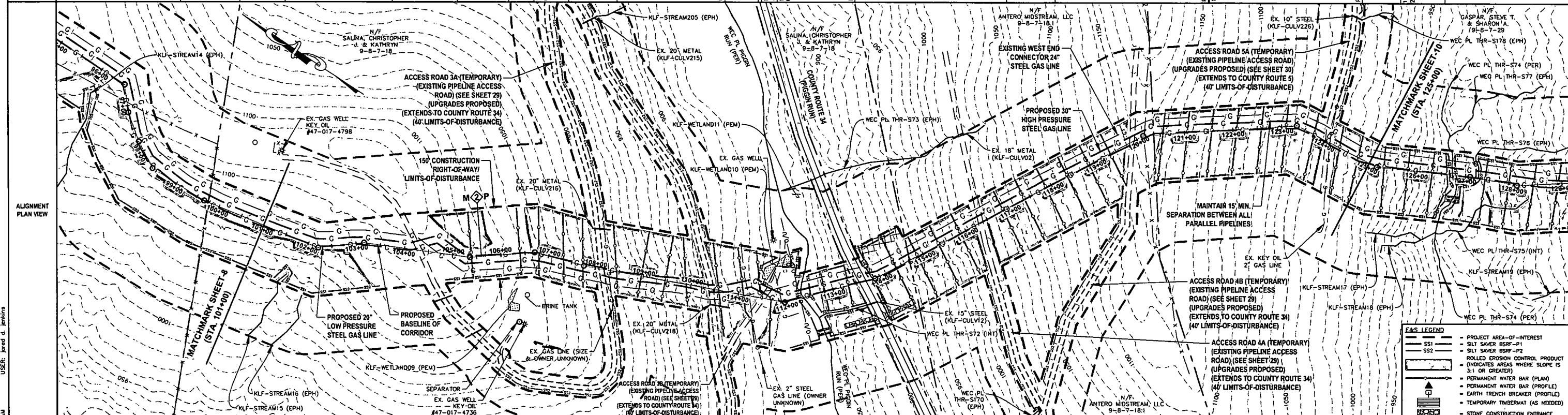
DATE: 6/7/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RJA (TIG)  
CHECKED: AR, JRI (TIG)

SHEET 07  
SHT. NAME: 050-6321\STRICKLING\PLAN3 REV. 2

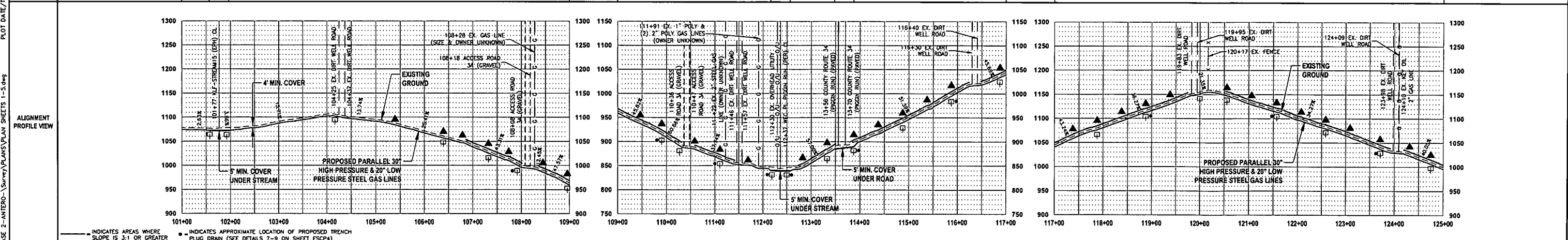
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 PLOT DATE/TIME: 6/20/2017 10:20 AM  
 USER: jared d. jenkins



OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	STATIONING & P.I. ANGLES	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER	OWNER
101+00 TO 101+50	P.I. 102+22 ANGLE: 29° LT	SALINA, CHRISTOPHER J. & KATHRYN J. 9-8-7-18 HORIZ. DIST. = 800'± SLOPE DIST. = 828'±	SALINA, CHRISTOPHER J. & KATHRYN J. 9-8-7-18 HORIZ. DIST. = 447'± SLOPE DIST. = 486'±	SALINA, CHRISTOPHER J. & KATHRYN J. 9-8-7-18 HORIZ. DIST. = 91'± SLOPE DIST. = 102'±	COUNTY ROUTE 34 (PACON RUN) HORIZ. DIST. = 31'± SLOPE DIST. = 32'±	ANTERO MIDSTREAM, LLC 9-8-7-18.1 HORIZ. DIST. = 231'± SLOPE DIST. = 258'±	ANTERO MIDSTREAM, LLC 9-8-7-18.1 HORIZ. DIST. = 337'± SLOPE DIST. = 358'±	ANTERO MIDSTREAM, LLC 9-8-7-18.1 HORIZ. DIST. = 337'± SLOPE DIST. = 358'±	GASPAR, STEVE T. & SHARON A. 9-8-7-28 HORIZ. DIST. = 463'± SLOPE DIST. = 491'±



DESIGN CLASS	LOCATION	PIPE DETAIL	DESIGN CLASS	LOCATION	PIPE DETAIL	DESIGN CLASS	LOCATION	PIPE DETAIL
CLASS 1	101+00 TO 109+00	57' C-104-57, 10+57, 101+37, 104+22, 104+15	CLASS 1	109+00 TO 117+00	344', 111+22, 111+98, 111+17, 45', 103', 113+48, 114+87, 114+56	CLASS 1	117+00 TO 125+00	117+50, 117+50, 117+50, 849', 124+31, 124+15



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'  
VERT. SCALE IN FEET: 1" = 20'

SUMMARY OF MATERIALS (3D)	
①	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE 2,436 LF
②	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE 120 LF
③	20" STEEL API 5L PSL-2, X-60, 0.375" WALL, FBE COATED PIPE 2,436 LF
④	20" STEEL API 5L PSL-2, X-60, 0.500" WALL, ARO COATED PIPE 120 LF
RECP	ROLLED EROSION CONTROL PRODUCT 244,544 SF
SS1	SILT SAVER BSRF-P1 1,644 LF
SS2	SILT SAVER BSRF-P2 122 LF
TB	EARTH TRENCH BREAKERS 50
WB	PERMANENT WATERBARS 34
GM	GAS LINE MARKERS 20
TS	TEST STATIONS 10
NO.	DESCRIPTION QTY

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION QTY
<b>REVISION</b>	
1	REVISED PER COMMENTS FROM ANTERO 06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC. 06/20/17
NO.	DESCRIPTION

- ### GENERAL INFORMATION
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

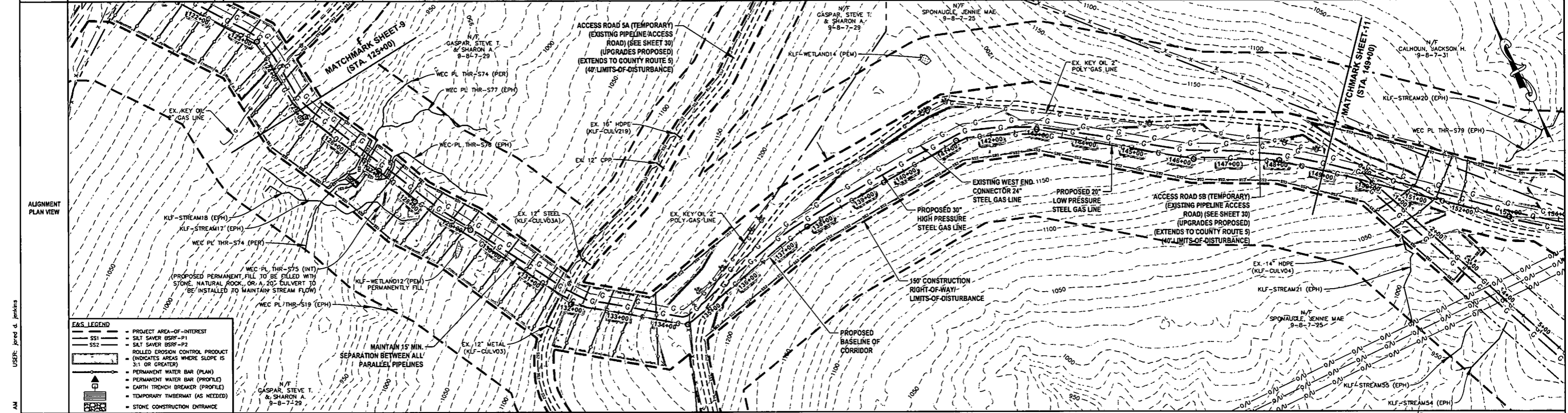
**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 101+00 TO STA. 125+00

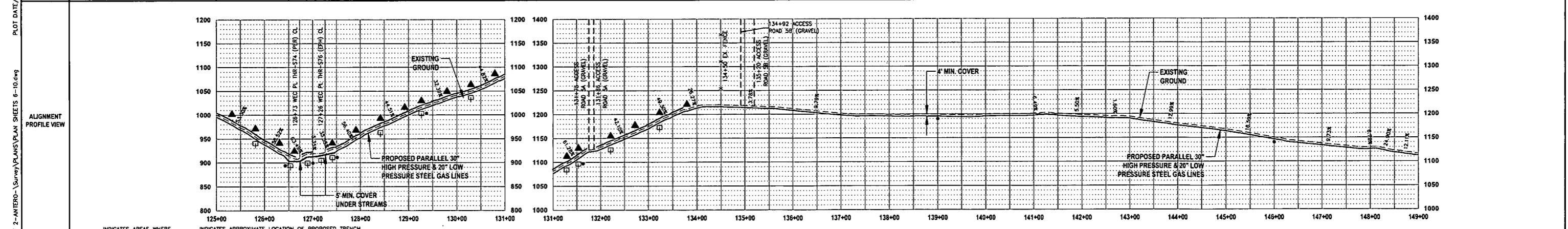
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE NO.: A05924  
SCALE: AS SHOWN  
DRAWN BY: JLS (TTO)  
CHECKED BY: JRJ (TTO) SHEET 09  
SHT. NAME: 050-6321-STRICKLING/PLANS REV. 2

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	125+00	131+00	134+52	149+00
STATIONING & P.I. ANGLES	P.I.: 127+18 ANGLE: 27° LT P.I.: 127+09 ANGLE: 05° RT P.I.: 128+08 ANGLE: 14° LT P.I.: 129+37 ANGLE: 09° RT	SEPARATION IN PROFILE 131+00 131+00	P.I.: 131+68 ANGLE: 27° LT P.I.: 134+45 ANGLE: 50° LT P.I.: 134+50 EX. FENCE P.I.: 137+68 ANGLE: 09° RT	P.I.: 141+27 ANGLE: 27° RT P.I.: 142+98 ANGLE: 19° RT P.I.: 146+28 ANGLE: 10° LT P.I.: 148+05 ANGLE: 13° RT
	GASPAR, STEVE T. & SHARON A. 9-8-7-29 HORIZ. DIST. = 600'± SLOPE DIST. = 666'±		GASPAR, STEVE T. & SHARON A. 9-8-7-29 HORIZ. DIST. = 352'± SLOPE DIST. = 385'±	SPONAUGLE, JENNIE MAE 9-8-7-25 HORIZ. DIST. = 1,448'± SLOPE DIST. = 1,455'±



DESIGN CLASS	CLASS 1		CLASS 1	
LOCATION	125+00		149+00	
PIPE DETAIL	125+00 125+18 178' 126+50 126+85 127+06 127+45 127+80 128+06 128+18	131+00 131+00 389' 131+37 134+52	134+52 134+52 137+68 137+68 1,840' 1,41+27 142+98	149+00 149+00 146+28 146+28 148+05



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

0 100 200  
HORIZ. SCALE IN FEET

0 100 200  
VERT. SCALE IN FEET

SUMMARY OF MATERIALS (3D)		NO.	DESCRIPTION	QTY
①	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,426	LF	
②	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	80	LF	
③	20" STEEL API 5L PSL-2, X-60, 0.375" WALL, FBE COATED PIPE	2,426	LF	
④	20" STEEL API 5L PSL-2, X-60, 0.500" WALL, ARO COATED PIPE	80	LF	
RECP	ROLLED EROSION CONTROL PRODUCT	244,904	SF	
SS1	SILT SAVER BSRF-P1	1,205	LF	
SS2	SILT SAVER BSRF-P2	1,643	LF	
TB	EARTH TRENCH BREAKERS	32		
WB	PERMANENT WATERBARS	18		
GM	GAS LINE MARKERS	20		
TS	TEST STATIONS	6		
NO.	DESCRIPTION	QTY		

SUMMARY OF MATERIALS (3D)		NO.	DESCRIPTION	QTY
<b>REVISION</b>				
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JAL	
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JAL	
NO.	DESCRIPTION	DATE	BY	

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING
  - BASELINE STATIONING PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
MidstreamPartners LP

**STRICKLING PIPELINE**  
STA. 125+00 TO STA. 149+00

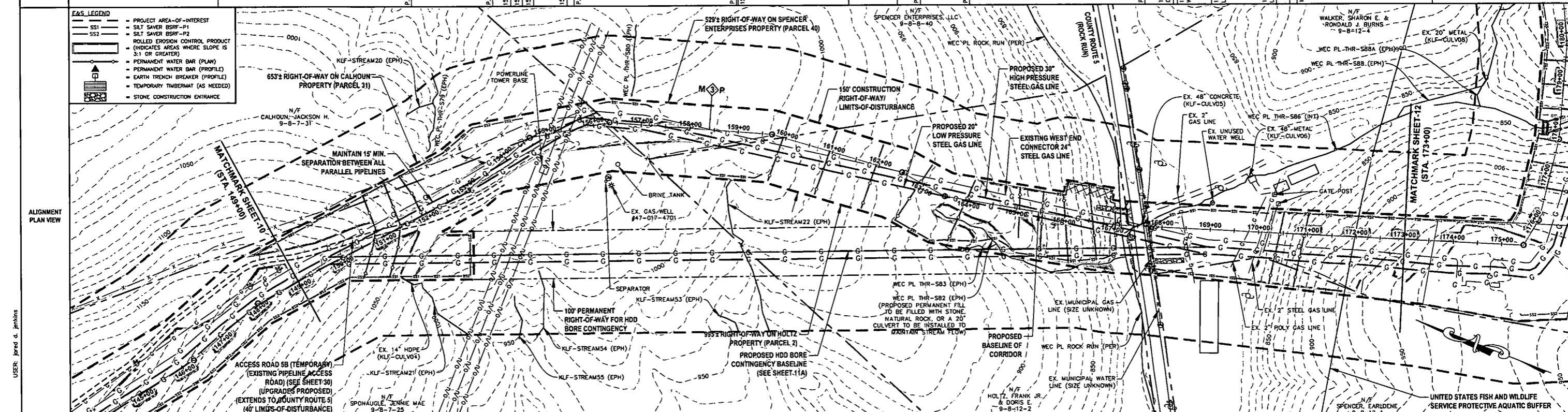
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIEGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JAL, RA (TDS)  
CHECKED BY: AS, JH (TDS)

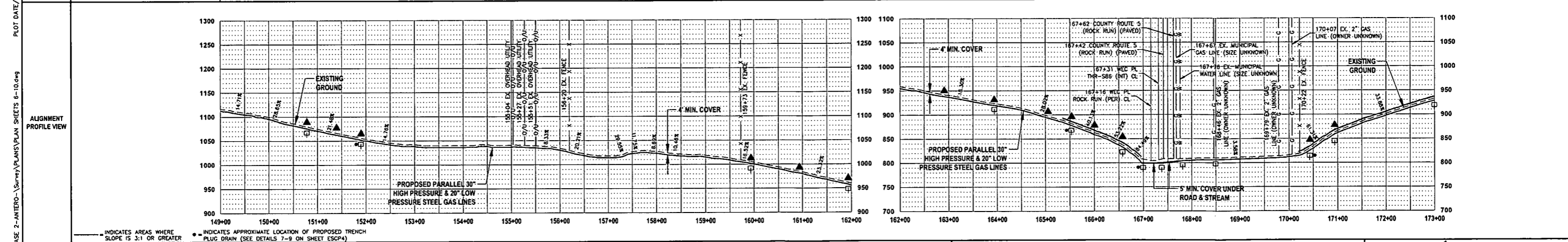
SHEET 10  
SHT. NAME: 050-6321\STRICKLING\PLAN6 REV. 2

LAYOUT TAB: PLANS  
CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 6-10.dwg  
PLOT DATE/TIME: 6/20/2017 10:53 AM  
USER: Jared C. Jenkins

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	149+00	151+00	153+00	155+00	157+00	159+00	161+00	163+00	165+00	167+00	169+00	171+00	173+00	
SPONAUGLE, JENNIE MAE 9-8-7-25 HORIZ. DIST. = 730'± SLOPE DIST. = 741'±	P.L.: 152+98 ANGLE: 17° RT		P.L.: 154+68 ANGLE: 30° RT 155+04 EX. OVERHEAD UTILITY 155+27 EX. OVERHEAD UTILITY 155+51 EX. OVERHEAD UTILITY 155+75 EX. OVERHEAD UTILITY		P.L.: 156+34 ANGLE: 15° LT 156+20 EX. FENCE		P.L.: 158+69 ANGLE: 17° RT 158+73 EX. FENCE		SEPARATION BY PROFILE 162+00 162+00		P.L.: 167+09 ANGLE: 07° LT 167+87 EX. MUNICIPAL GAS LINE (SIZE UNKNOWN) 167+76 EX. MUNICIPAL WATER LINE (SIZE UNKNOWN) 168+46 EX. 2" GAS LINE (OWNER UNKNOWN) 168+79 EX. 2" GAS LINE (OWNER UNKNOWN) 169+79 EX. 2" GAS LINE (OWNER UNKNOWN) 170+07 EX. 2" GAS LINE (OWNER UNKNOWN)		WALKER, SHARON E. & RONALD J. BURNS 9-8-12-4 HORIZ. DIST. = 528'± SLOPE DIST. = 552'±	
STATIONING & P.A. ANGLES	149+00												173+00	



DESIGN CLASS LOCATION	149+00	CLASS 1				159+25	CLASS 2	162+00	CLASS 2				173+00			
PIPE DETAIL	149+00	154+98	154+86	155+27	154+34	1,320'	154+69	162+00	162+00	164+48	528'	164+90	164+76	164+76	172+50	173+00



**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'

VERT. SCALE IN FEET: 1" = 200'

NO.	DESCRIPTION	QTY
1	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,397 LF
2	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	80 LF
3	20" STEEL API 5L PSL-2, X-60, 0.375" WALL, FBE COATED PIPE	2,397 LF
4	20" STEEL API 5L PSL-2, X-60, 0.500" WALL, ARO COATED PIPE	80 LF
RECP	ROLLED EROSION CONTROL PRODUCT	145,378 SF
SS1	SILT SAVER BSRF-P1	1,789 LF
SS2	SILT SAVER BSRF-P2	925 LF
TB	EARTH TRENCH BREAKERS	28
WB	PERMANENT WATERBARS	14
GM	GAS LINE MARKERS	18
TS	TEST STATIONS	6
NO.	DESCRIPTION	QTY

NO.	DESCRIPTION	QTY	
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	
NO.	DESCRIPTION	DATE	BY

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION. A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 149+00 TO STA. 173+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

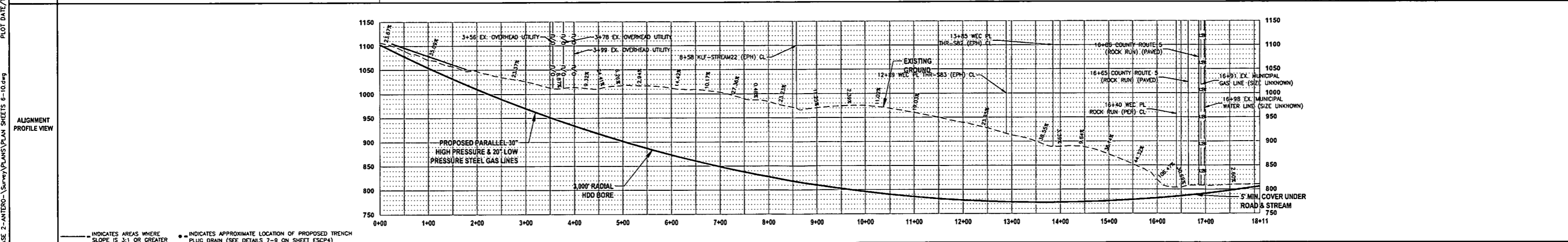
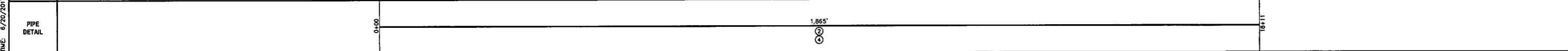
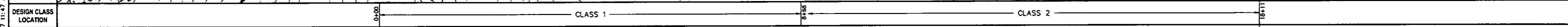
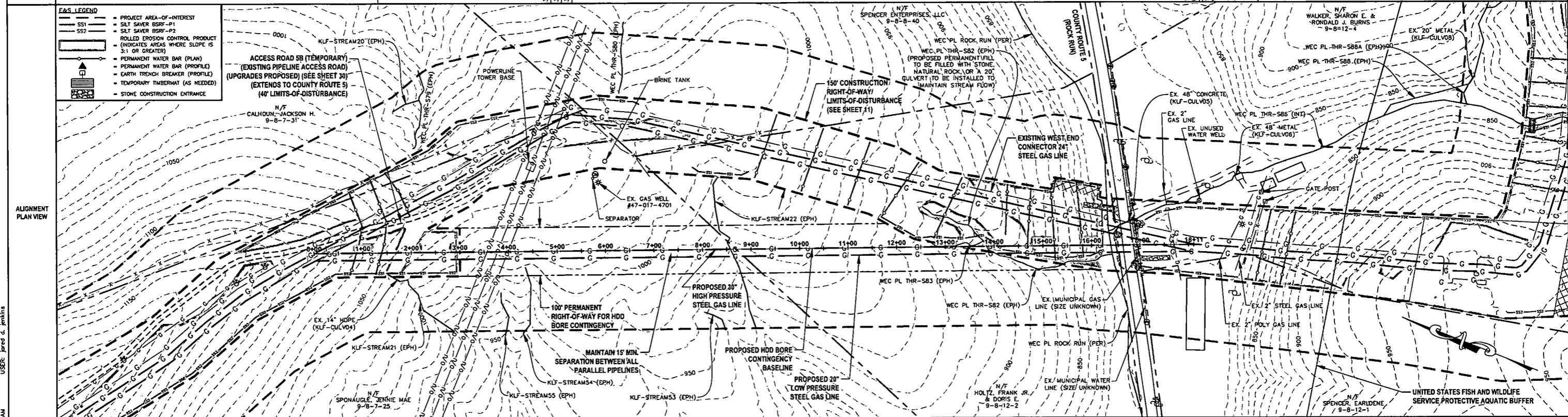
DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: J.R.A. (TIG)  
CHECKED BY: A.B. (TIG)

SHEET 11

SHT. NAME: 050-6321\STRICKLING\PLAN7

REV. 2

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	0+00	8+69	16+53	18+11
STATIONING & P.I. ANGLES	0+00	8+69	16+53	18+11
	SPENCER ENTERPRISES, LLC 9-8-8-40 HORIZ. DIST. = 869'± SLOPE DIST. = 919'±	HOLTZ, FRANK JR. 9-8-12-2 HORIZ. DIST. = 786'± SLOPE DIST. = 786'±	COUNTY ROUTE 5 (ROCK RUN) HORIZ. DIST. = 40'± SLOPE DIST. = 40'±	WALKER, SHARON E. & RONALD J. BURNS 9-8-12-4 HORIZ. DIST. = 116'± SLOPE DIST. = 117'±



# IFP

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER

INDICATES APPROXIMATE LOCATION OF PROPOSED TRENCH PLUG DRAIN (SEE DETAILS 7-9 ON SHEET ESCP4)

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION
②	30" STEEL API SL PSL-2, X-70, 0.500" WALL, ARO COATED PIPE
④	20" STEEL API SL PSL-2, X-60, 0.500" WALL, ARO COATED PIPE
1,865 LF	
1,865 LF	

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
<b>REVISION</b>		
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

- ### GENERAL INFORMATION
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

## STRICKLING PIPELINE

### ROCK RUN CONTINGENCY BORE

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

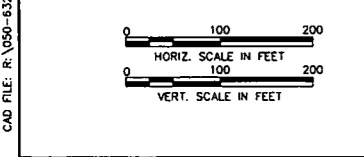
DATE: 6/20/2017 FILE NO: A05924

SCALE: AS SHOWN 1"=100'

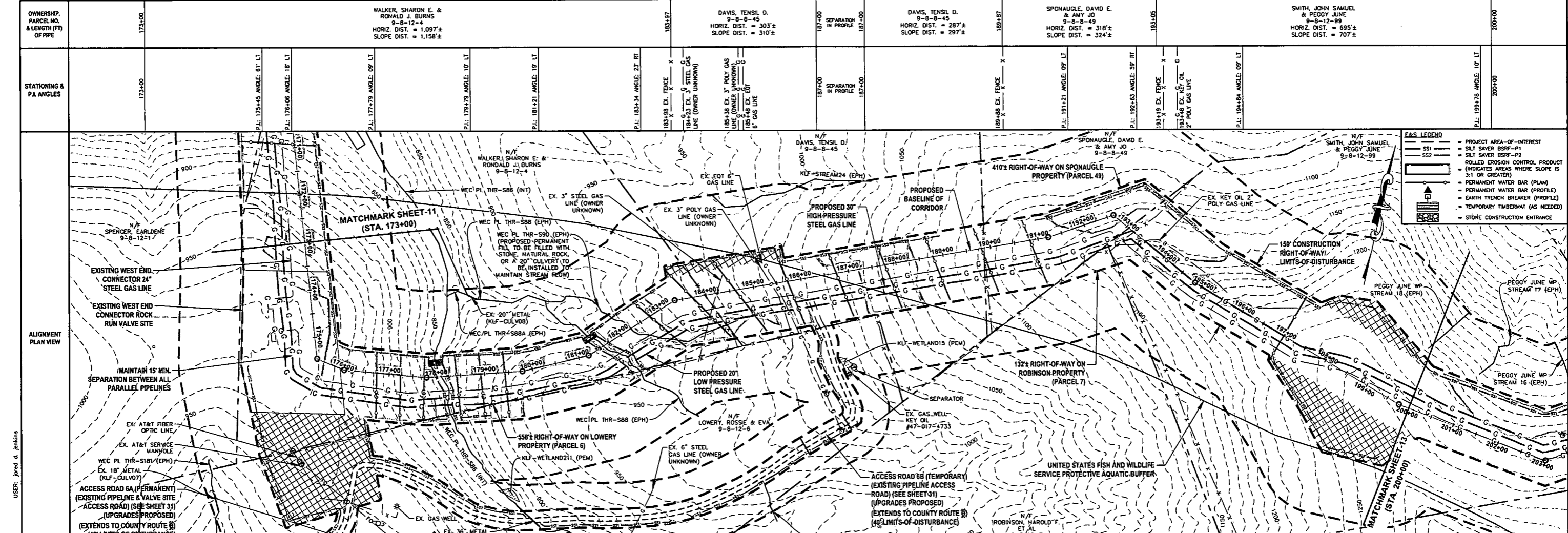
DRAWN BY: JAL, P.L.A. (TTS) SHEET 11A

CHECKED: JAL, P.L.A. (TTS)

SHT. NAME: 050-6321\STRICKLING\PLAN7A REV. 2



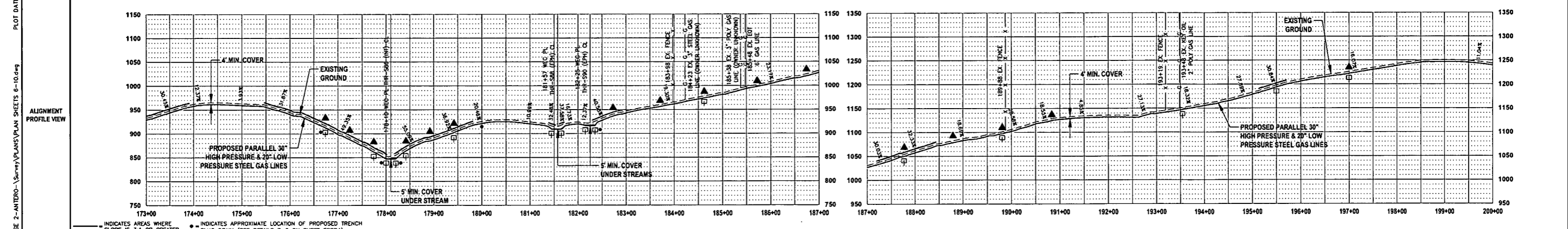
LAYOUT TAB: PLAN7A  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\Plans\PLAN SHEETS 6-10.dwg  
PLOT DATE/TIME: 6/20/2017 11:47 AM  
USER: Jared A. Jenkins



**E&S LEGEND**

- PROJECT AREA-OF-INTEREST
- SILT SAVER BSRF-P1
- SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT
- (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- PERMANENT WATER BAR (PLAN)
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- TEMPORARY TIMBERMATS (AS NEEDED)
- STONE CONSTRUCTION ENTRANCE

DESIGN CLASS	CLASS 2		CLASS 1		CLASS 1	
LOCATION	173+00		182+36		187+00	
PIPE DETAIL	174+45 Ø 20"	174+06 Ø 20"	177+79 Ø 20"	181+45 Ø 20"	184+34 Ø 20"	187+00 Ø 20"



**THRASHER**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'

VERT. SCALE IN FEET: 1" = 20'

**SUMMARY OF MATERIALS (3D)**

①	30" STEEL API SL PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,736 LF
②	30" STEEL API SL PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	60 LF
③	20" STEEL API SL PSL-2, X-60, 0.375" WALL, FBE COATED PIPE	2,736 LF
④	20" STEEL API SL PSL-2, X-60, 0.500" WALL, ARO COATED PIPE	60 LF
RECP	ROLLED EROSION CONTROL PRODUCT	157,170 SF
SS1	SILT SAVER BSRF-P1	1,165 LF
SS2	SILT SAVER BSRF-P2	2,576 LF
TB	EARTH TRENCH BREAKERS	32
WB	PERMANENT WATERBARS	16
GM	GAS LINE MARKERS	22
TS	TEST STATIONS	6
NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLENFELDER, INC.	06/20/17
NO.	DESCRIPTION	DATE

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig.
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT.
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLENFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLENFELDER, INC.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero Midstream Partners LP**

**STRICKLING PIPELINE**

**STA. 173+00 TO STA. 200+00**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/7/2017  
SCALE: AS SHOWN  
DRAWN BY: JLA, RLA (TDS)  
CHECKED: AR, JRI (TDS)

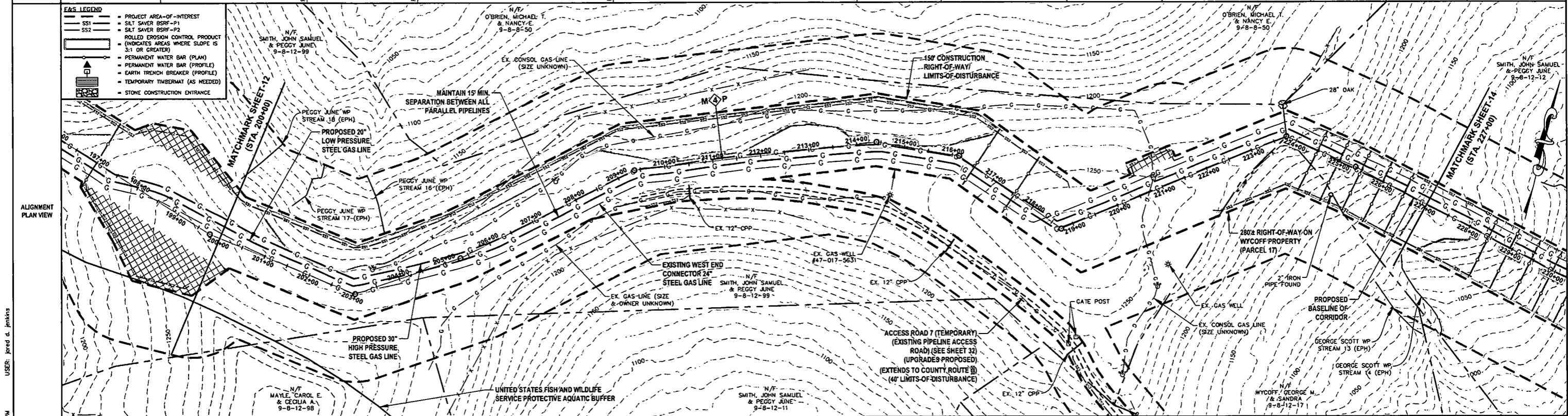
SHEET 12

SHT. NAME: 050-6321\STRICKLING\PLAN8 REV. 2

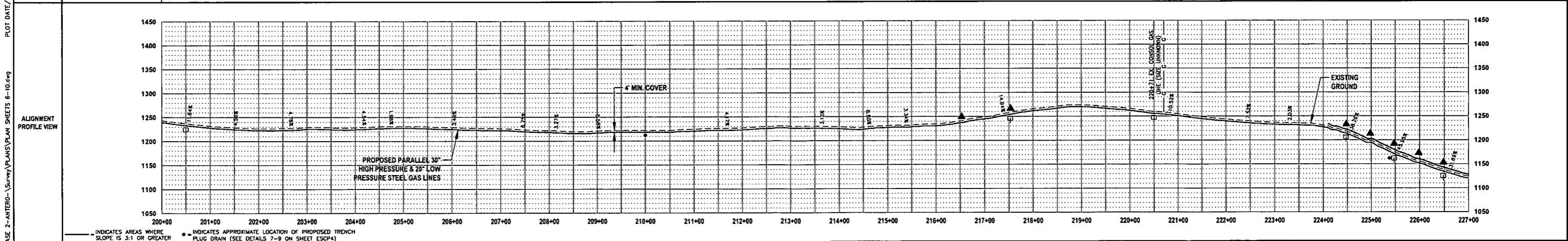
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PLOT DATE/TIME: 6/20/2017 11:54 AM  
USER: jared d. jenkins



OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	200+00	200+00	203+03	205+32	209+37	214+41	216+15	218+74	220+71	223+77	227+00
STATIONING & P.I. ANGLES	200+00	P.I. 203+03 ANGLE: 42° LT	P.I. 205+32 ANGLE: 08° LT	P.I. 209+37 ANGLE: 20° RT	P.I. 214+41 ANGLE: 16° RT	P.I. 216+15 ANGLE: 26° RT	P.I. 218+74 ANGLE: 58° LT	220+71 EX. CONSOL GAS LINE (SIZE UNKNOWN) C	P.I. 223+77 ANGLE: 46° RT	P.I. 225+34 ANGLE: 04° RT	227+00



DESIGN CLASS LOCATION	200+00	CLASS 1										227+00
PIPE DETAIL	200+00	201+00	203+03	205+32	209+37	214+41	216+15	218+74	220+71	223+77	227+00	



**THRASHER**

0 100 200  
HORIZ. SCALE IN FEET

0 20  
VERT. SCALE IN FEET

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

SUMMARY OF MATERIALS (3D)		
①	30" STEEL API SL PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,729 LF
②	20" STEEL API SL PSL-2, X-60, 0.375" WALL, FBE COATED PIPE	2,729 LF
RECP	ROLLED EROSION CONTROL PRODUCT	140,848 SF
SS1	SILT SAVER BSRF-P1	511 LF
SS2	SILT SAVER BSRF-P2	1,996 LF
TB	EARTH TRENCH BREAKERS	12
WB	PERMANENT WATERBARS	7
GM	GAS LINE MARKERS	14
TS	TEST STATIONS	6
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

REVISION			
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JLL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	RJA

- ### GENERAL INFORMATION
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 200+00 TO STA. 227+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

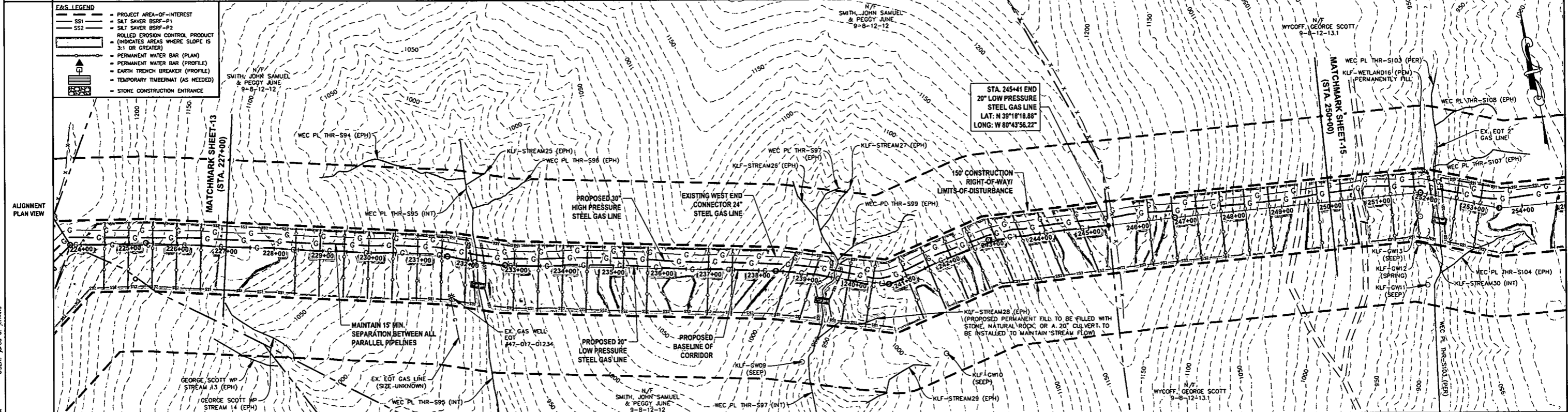
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SCALE: AS SHOWN  
DRAWN BY: JLL, RJA (TIG)  
CHECKED BY: AR, JRI (TIG)

SHEET 13  
SHT. NAME: 050-6321\STRICKLING\PLANS9 REV. 2

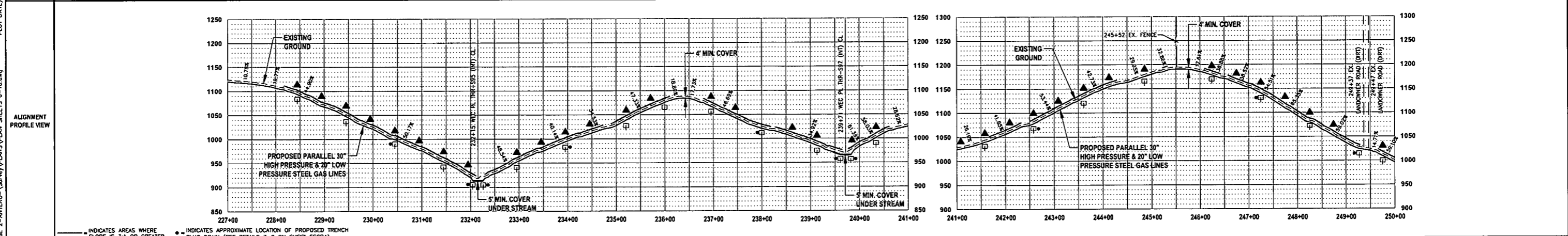
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PLOT DATE/TIME: 6/20/2017 1:01 PM  
USER: Jared A. Jenkins

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	227+00	SMITH, JOHN SAMUEL & PEGGY JUNE 9-8-12-12 HORIZ. DIST. = 1,400'± SLOPE DIST. = 1,529'±	241+00	SMITH, JOHN SAMUEL & PEGGY JUNE 9-8-12-12 HORIZ. DIST. = 441'± SLOPE DIST. = 474'±	250+00	WYCOFF, GEORGE SCOTT 9-8-12-13.1 HORIZ. DIST. = 459'± SLOPE DIST. = 507'±
STATIONING & P.I. ANGLES	227+00	P.I.: 231+57 ANGLE: 06° RT	241+00	P.I.: 240+68 ANGLE: 31° LT	241+00	P.I.: 246+79 ANGLE: 01° RT

- E&S LEGEND**
- PROJECT AREA-OF-INTEREST
  - SILT SAVER BSRF-P1
  - SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT
  - (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - PERMANENT WATER BAR (PLAN)
  - PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - TEMPORARY TIMBERMAT (AS NEEDED)
  - STONE CONSTRUCTION ENTRANCE



DESIGN CLASS	CLASS 1		CLASS 1	
LOCATION	227+00		241+00	
PIPE DETAIL	227+00	228+00	241+00	242+00



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'  
VERT. SCALE IN FEET: 1" = 20'

SUMMARY OF MATERIALS (3D)			SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
①	30" STEEL API SL PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,450 LF			
②	30" STEEL API SL PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	60 LF			
③	20" STEEL API SL PSL-2, X-60, 0.375" WALL, FBE COATED PIPE	2,450 LF			
④	20" STEEL API SL PSL-2, X-60, 0.500" WALL, ARO COATED PIPE	60 LF			
RECP	ROLLED EROSION CONTROL PRODUCT	275,136 SF			
SS1	SILT SAVER BSRF-P1	1,509 LF			
SS2	SILT SAVER BSRF-P2	1,110 LF			
TB	EARTH TRENCH BREAKERS	50	1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JLA
WB	PERMANENT WATERBARS	35	2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 JLA
GM	GAS LINE MARKERS	18			
TS	TEST STATIONS	4			
NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	DATE BY

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig.
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT.
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION DEPICTED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

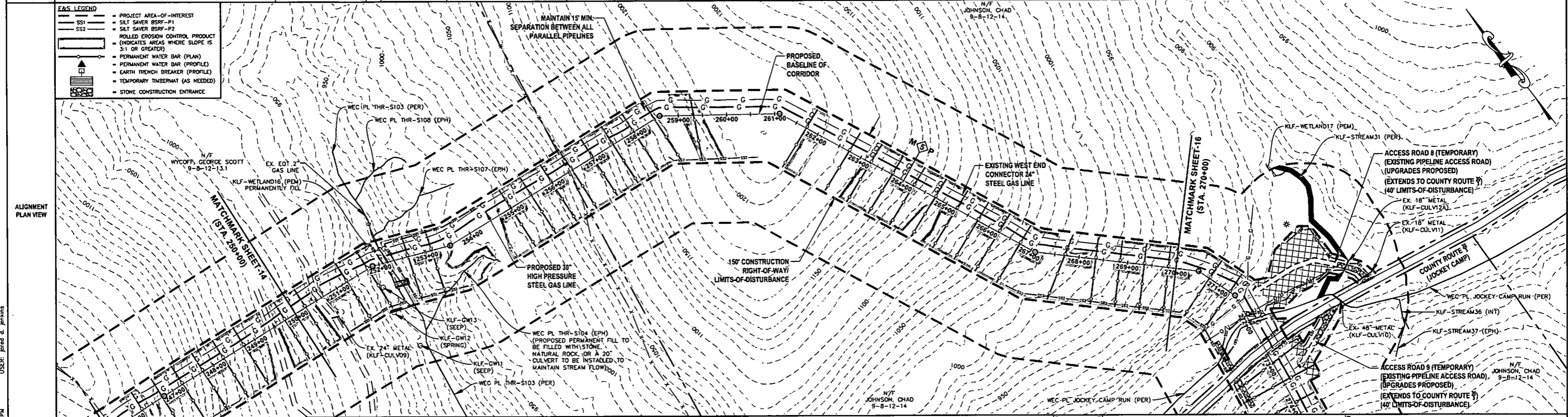
**STRICKLING PIPELINE**  
STA. 227+00 TO STA. 250+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIEGER COUNTY, WEST VIRGINIA

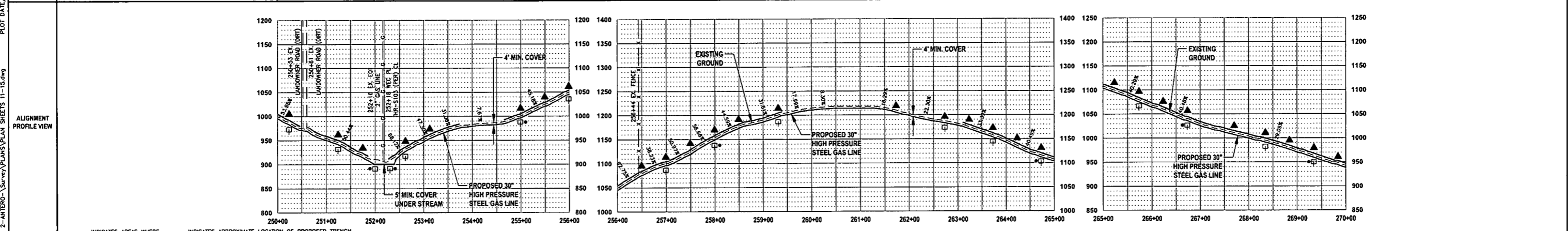
DATE: 6/20/2017 AFE No.: A05924  
SCALE: AS SHOWN  
DRAWN BY: JLA (P) (E) SHEET 14  
CHECKED BY: AS (P) (E)  
SHT. NAME: 050-6321\STRICKLING\PLAN10 REV. 2

LAYOUT TAB: PLAN10 USER: jared d. jenkins PLOT DATE/TIME: 6/20/2017 1:08 PM C:\Users\jared\OneDrive\Documents\Survey\PLANS\PLAN SHEETS 6-10.dwg

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	250+00	WYCOFF, GEORGE SCOTT 9-8-12-13.1 HORIZ. DIST. = 600'± SLOPE DIST. = 662'±	254+00	WYCOFF, GEORGE SCOTT 9-8-12-13.1 HORIZ. DIST. = 40'± SLOPE DIST. = 47'±	258+00	JOHNSON, CHAD 9-8-12-14 HORIZ. DIST. = 860'± SLOPE DIST. = 908'±	265+00	JOHNSON, CHAD 9-8-12-14 HORIZ. DIST. = 500'± SLOPE DIST. = 529'±	270+00
STATIONING & P.I. ANGLES	250+00	P.I.: 251+86 ANGLE: 17° RT C 252+18 EX. EOT 2' GAS LINE	254+00	P.I.: 253+52 ANGLE: 17° LT C	258+00	P.I.: 258+44 EX. FENCE X 259+44 EX. FENCE X	265+00	P.I.: 261+10 ANGLE: 30° RT C	270+00



DESIGN CLASS	CLASS 1			CLASS 1			CLASS 1					
LOCATION	250+00			254+00			265+00					
PIPE DETAIL	222'	251+86 252+18 253+52	40'	253+52	400'	254+00	258+44 259+44	955'	261+10	265+00	261+10	529'



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'  
VERT. SCALE IN FEET: 1" = 20'

NO.	DESCRIPTION	QTY
1	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,106 LF
2	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	40 LF
RECP	ROLLED EROSION CONTROL PRODUCT	201,337 SF
SS1	SILT SAVER BSRF-P1	788 LF
SS2	SILT SAVER BSRF-P2	560 LF
TB	EARTH TRENCH BREAKERS	17
WB	PERMANENT WATERBARS	29
GM	GAS LINE MARKERS	7
TS	TEST STATIONS	1

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

- |  |   |
|--|---|
| 1. PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig   | 6. THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED. |
| 2. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT  | 7. ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.  |
| 3. ALL STATIONING SHOWN IS HORIZONTAL STATIONING.  | 8. ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.  |
| 4. BASELINE STATION DEPICTED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE. | 9. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS. REFER TO GRAPHIC SCALE.   |
| 5. FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.  | 10. FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.  |

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 250+00 TO STA. 270+00

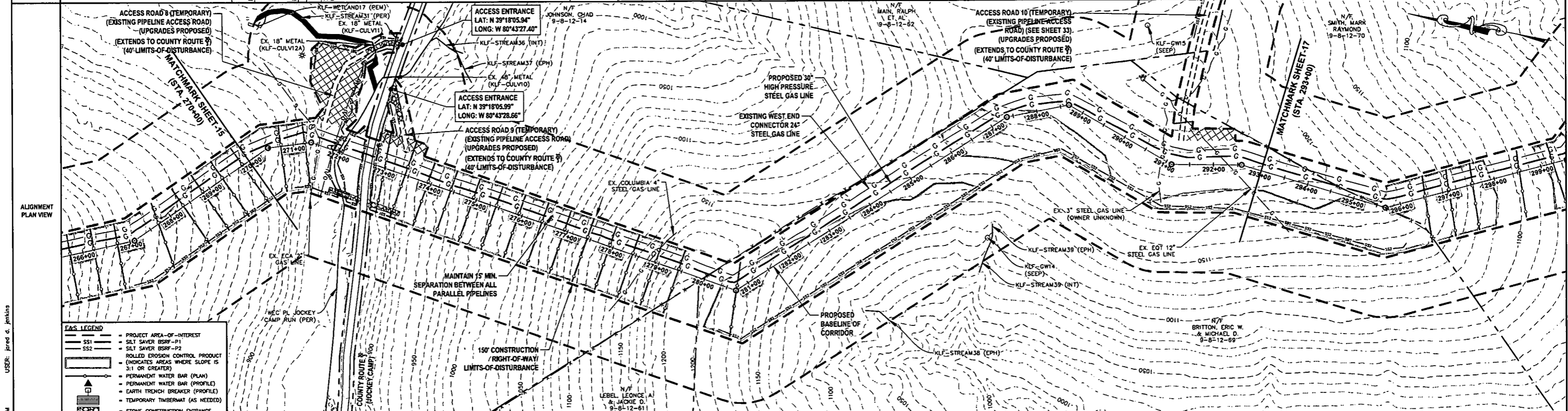
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RLA (TIG)  
CHECKED: AK, JRI (TIG)

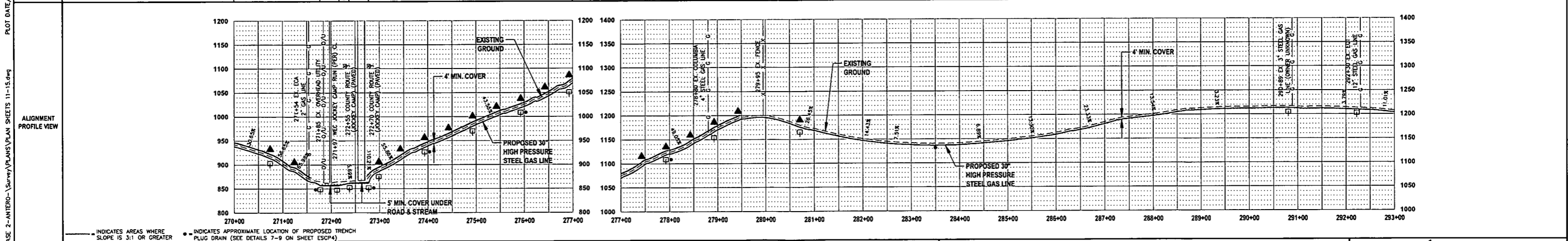
SHEET 15  
SHT. NAME: 050-6321\STRICKLING\PLAN11 REV. 2

LAYOUT TAB: PLAN11  
CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 11-15.dwg  
PLOT DATE/TIME: 6/20/2017 1:17 PM  
USER: jried d. jenkins

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	270+00	JOHNSON, CHAD 9-8-12-14 HORIZ. DIST. = 247'± SLOPE DIST. = 268'±	272+47	272+47	COUNTY ROUTE 9 (JOCKEY CAMP) HORIZ. DIST. = 31'± SLOPE DIST. = 31'±	277+00	JOHNSON, CHAD 9-8-12-14 HORIZ. DIST. = 422'± SLOPE DIST. = 476'±	277+00	JOHNSON, CHAD 9-8-12-14 HORIZ. DIST. = 295'± SLOPE DIST. = 326'±	278+95	BRITTON, ERIC W. & MICHAEL D. 9-8-12-69 HORIZ. DIST. = 1,305'± SLOPE DIST. = 1,318'±	293+00
STATIONING & P.I. ANGLES	270+00	P.I.: 270+47 ANGLE: 27 RT	271+37	271+37 ANGLE: 27 RT	271+37 ANGLE: 27 RT	277+00	277+00	277+00	279+95 EX. FENCE	279+95 EX. FENCE	287+37 ANGLE: 27 RT	287+37 ANGLE: 47 RT



DESIGN CLASS	CLASS 1		SEPARATION IN PROFILE		CLASS 1	
PIPE DETAIL	270+00	271+37	271+37	277+00	277+00	293+00



# IFP

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

0 100 200  
HORIZ. SCALE IN FEET

0 100 200  
VERT. SCALE IN FEET

SUMMARY OF MATERIALS (3D)		
①	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,339 LF
②	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	80 LF
RECP	ROLLED EROSION CONTROL PRODUCT	208,875 SF
SS1	SILT SAVER BSRF-P1	1,283 LF
SS2	SILT SAVER BSRF-P2	1,247 LF
TB	EARTH TRENCH BREAKERS	15
WB	PERMANENT WATERBARS	17
GM	GAZ LINE MARKERS	10
TS	TEST STATIONS	4

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JLA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 KLA

### GENERAL INFORMATION

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION. A FULL PROPERTY SURVEY IS RECOMMENDED.
- ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
- ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

## STRICKLING PIPELINE

### STA. 270+00 TO STA. 293+00

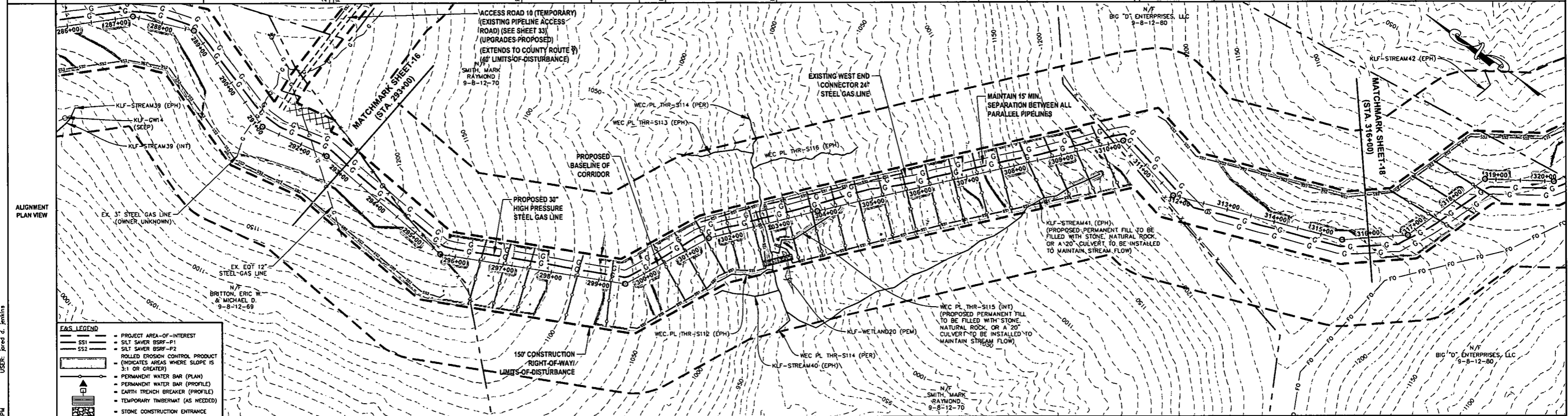
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/7/2017  
SCALE: AS SHOWN  
DRAWN BY: JLA, R.A. (TID)  
CHECKED: AR, JRI (TID)

SHEET 16  
SHT. NAME: 050-6321\STRICKLING\PLAN12 REV. 2

LAYOUT TAB: PLAN12  
 CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 11-15.dwg  
 PLOT DATE/TIME: 6/20/2017 1:20 PM  
 USER: jried d\_pantins

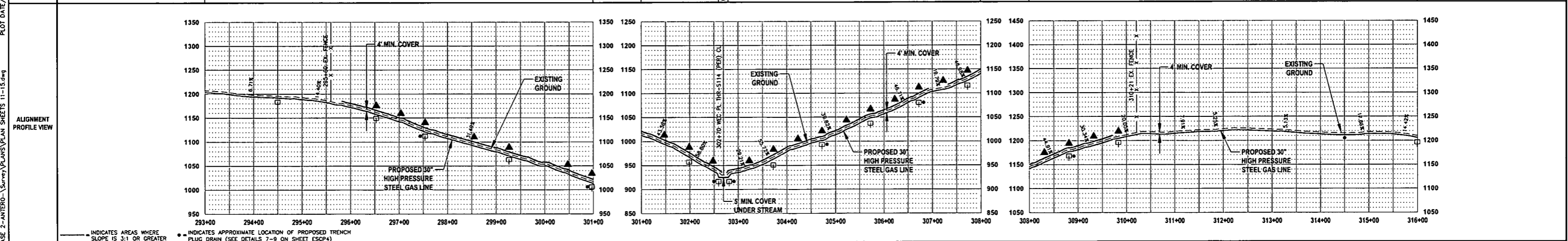
OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	293+00	BRITTON, ERIC W. & MICHAEL D. 9-8-12-69 HORIZ. DIST. = 265'± SLOPE DIST. = 267'±	298+65	SMITH, MARK RAYMOND 9-8-12-70 HORIZ. DIST. = 535'± SLOPE DIST. = 563'±	301+00	SMITH, MARK RAYMOND 9-8-12-70 HORIZ. DIST. = 700'± SLOPE DIST. = 775'±	308+00	SMITH, MARK RAYMOND 9-8-12-70 HORIZ. DIST. = 211'± SLOPE DIST. = 224'±	310+11	BIG "D" ENTERPRISES, LLC 9-8-12-80 HORIZ. DIST. = 589'± SLOPE DIST. = 591'±	316+00
STATIONING & P.I. ANGLES	293+00	P.I.: 293+68 ANGLE: 37° LT	P.I.: 299+56 ANGLE: 37° LT	P.I.: 301+54 ANGLE: 15° RT	P.I.: 303+84 ANGLE: 01° RT	P.I.: 308+00 ANGLE: 01° RT	P.I.: 310+31 ANGLE: 81° RT	P.I.: 311+85 ANGLE: 33° LT	P.I.: 315+45 ANGLE: 19° LT	316+00	



**EAS LEGEND**

- PROJECT AREA-OF-INTEREST
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- PERMANENT WATER BAR (PLAN)
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- TEMPORARY TIMBERMAT (AS NEEDED)
- STONE CONSTRUCTION ENTRANCE

DESIGN CLASS	CLASS 1	CLASS 1	CLASS 1
LOCATION	293+00	301+00	308+00
PIPE DETAIL	83°	186°	56°



**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'

VERT. SCALE IN FEET: 1" = 20'

**SUMMARY OF MATERIALS (3D)**

① 30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,400 LF
② 30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	20 LF
RECP ROLLED EROSION CONTROL PRODUCT	218,860 SF
SS1 SILT SAVER BSRF-P1	1,589 LF
SS2 SILT SAVER BSRF-P2	817 LF
TB EARTH TRENCH BREAKERS	16
WB PERMANENT WATERBARS	24
GM GAS LINE MARKERS	8
TS TEST STATIONS	2

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	RA

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 293+00 TO STA. 316+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 TIME: 11:15 AM A05924

SCALE: AS SHOWN

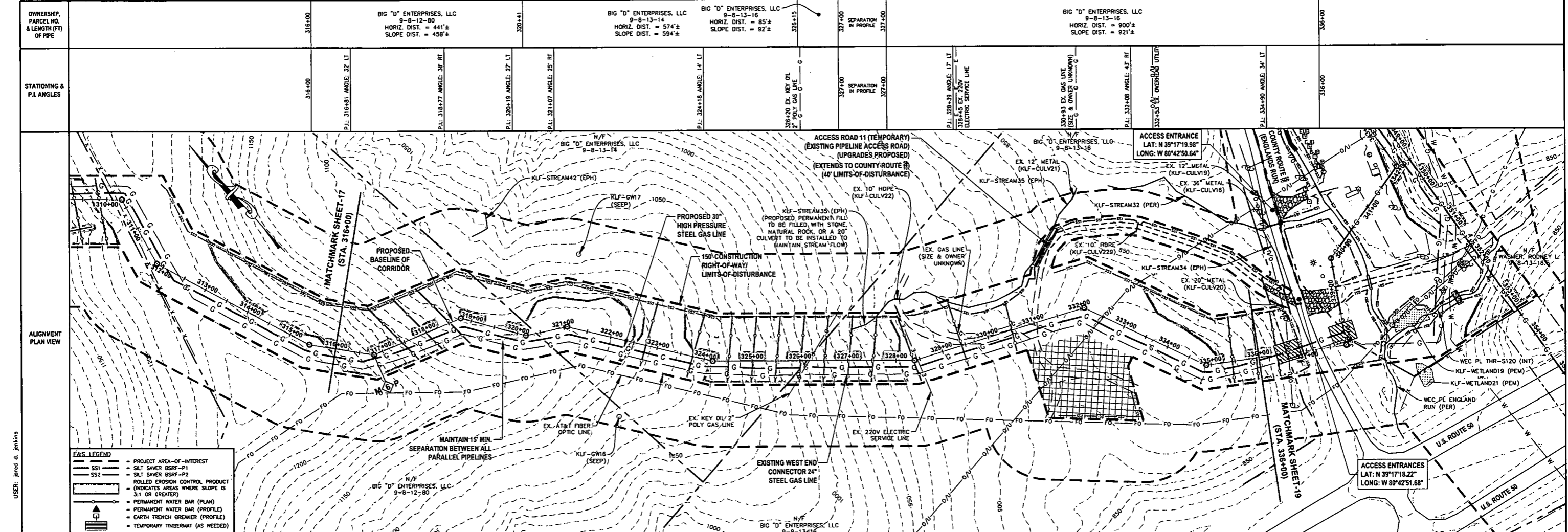
DRAWN BY: JLN, RA (TJD)

CHECKED BY: AR, JRN (TJD)

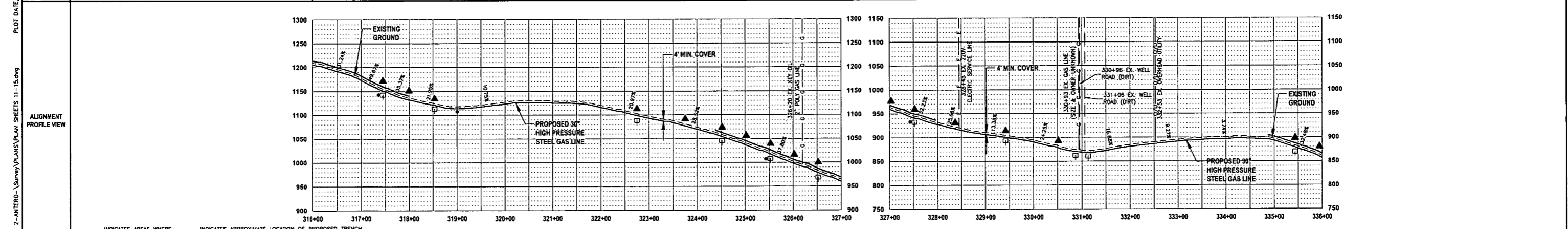
SHEET 17

SHT. NAME: 050-6321\STRICKLING\PLAN13 REV. 2

LAYOUT TAB: PLAN13  
 CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-SURVEY\PLANS\PLAN SHEETS 11-15.dwg  
 PLOT DATE/TIME: 6/20/2017 11:25 PM  
 USER: Jared G. Jenkins



OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	316+00	BIG "D" ENTERPRISES, LLC 9-8-12-80 HORIZ. DIST. = 441'± SLOPE DIST. = 458'±	320+41	BIG "D" ENTERPRISES, LLC 9-8-13-14 HORIZ. DIST. = 574'± SLOPE DIST. = 594'±	BIG "D" ENTERPRISES, LLC 9-8-13-16 HORIZ. DIST. = 85'± SLOPE DIST. = 92'±	327+00	SEPARATION IN PROFILE	327+00	BIG "D" ENTERPRISES, LLC 9-8-13-16 HORIZ. DIST. = 800'± SLOPE DIST. = 921'±	336+00	
STATIONING & P.I. ANGLES	316+00	P.I. 318+81 ANGLE: 32° LT	P.I. 324+77 ANGLE: 35° RT	P.I. 320+19 ANGLE: 37° LT	P.I. 324+07 ANGLE: 25° RT	P.I. 324+18 ANGLE: 14° LT	327+00	327+00	P.I. 328+39 ANGLE: 17° LT	P.I. 332+08 ANGLE: 43° RT	336+00



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'  
VERT. SCALE IN FEET: 1" = 200'

SUMMARY OF MATERIALS (3D)		
①	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,065 LF
RECP	ROLLED EROSION CONTROL PRODUCT	143,033 SF
SS1	SILT SAVER BSRF-P1	937 LF
SS2	SILT SAVER BSRF-P2	1,412 LF
TB	EARTH TRENCH BREAKERS	11
WB	PERMANENT WATERBARS	16
GM	GAS LINE MARKERS	8
TS	TEST STATIONS	1

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	

- ### GENERAL INFORMATION
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION. A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS. REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

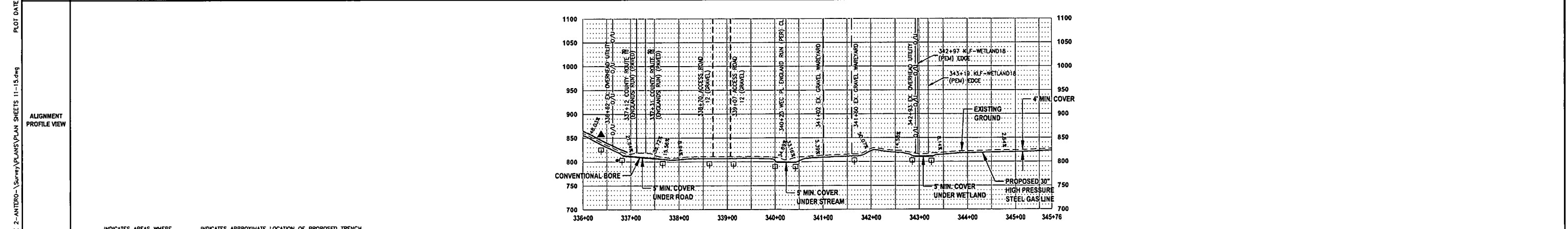
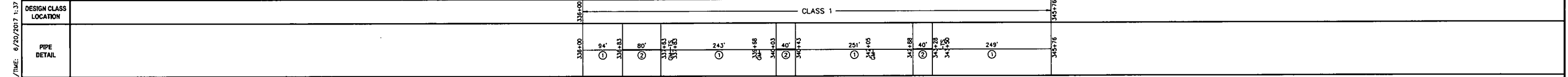
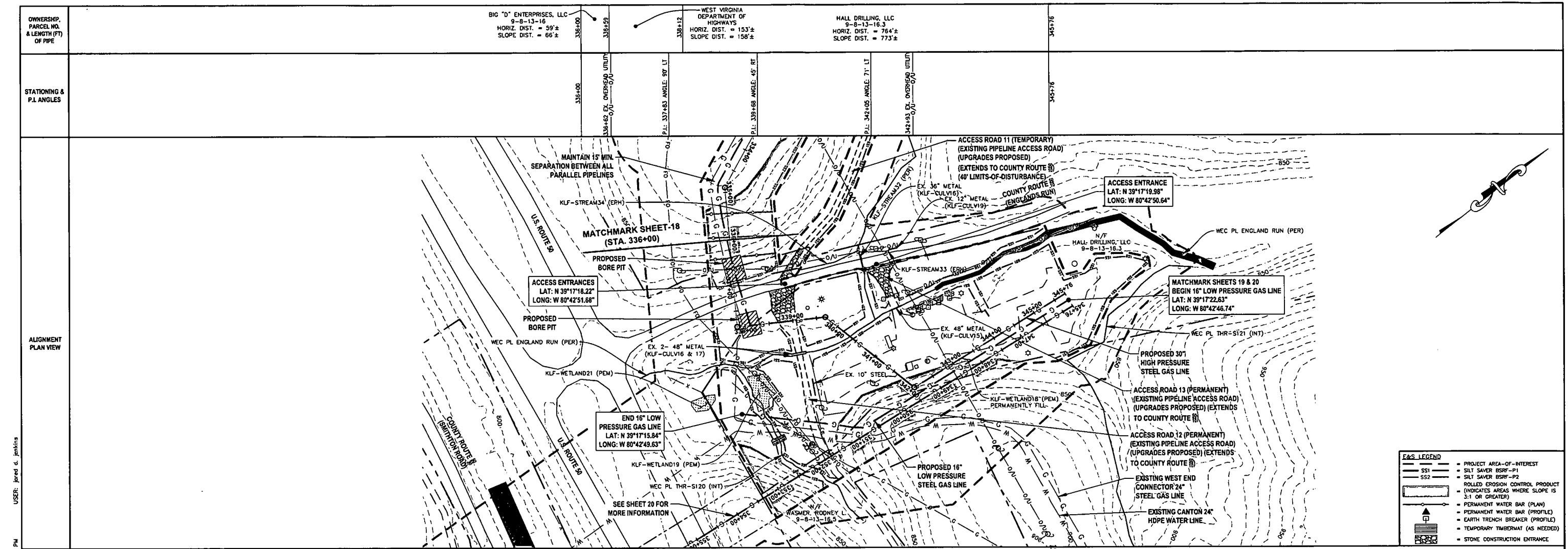
**STRICKLING PIPELINE**  
STA. 316+00 TO STA. 336+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/7/2017  
SCALE: AS SHOWN  
DRAWN BY: J.M. (TTC)  
CHECKED: A.M. (TTC)

SHEET 18  
SHT. NAME: 050-6321-STRICKLING\PLAN14 REV. 2

LAYOUT TAB: PLAN14  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 11-15.dwg  
PLOT DATE/TIME: 6/20/2017 1:32 PM  
USER: Fred d. Jenkins



INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER  
 INDICATES APPROXIMATE LOCATION OF PROPOSED TRENCH PLUG DRAIN (SEE DETAILS 7-9 ON SHEET ESCP4)

## IFP

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

SCALE: 1" = 100' HORIZ. SCALE IN FEET

SCALE: 1" = 20' VERT. SCALE IN FEET

SUMMARY OF MATERIALS (3D)		
①	30" STEEL API SL PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	837 LF
②	30" STEEL API SL PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	160 LF
RECP	ROLLED EROSION CONTROL PRODUCT	59,324 SF
SS1	SILT SAVER BSRF-P1	3,385 LF
TB	EARTH TRENCH BREAKERS	10
WB	PERMANENT WATERBARS	1
GM	GAS LINE MARKERS	3
TS	TEST STATIONS	2

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

GENERAL INFORMATION		
1. PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig	6. THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.	
2. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	7. ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.	
3. ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	8. ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.	
4. BASELINE STATION DEPICTED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.	9. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.	
5. FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	10. FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

**STRICKLING PIPELINE**

**STA. 336+00 TO STA. 345+76**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924

SCALE: AS SHOWN

DRAWN BY: JDA, RJA (TDS)

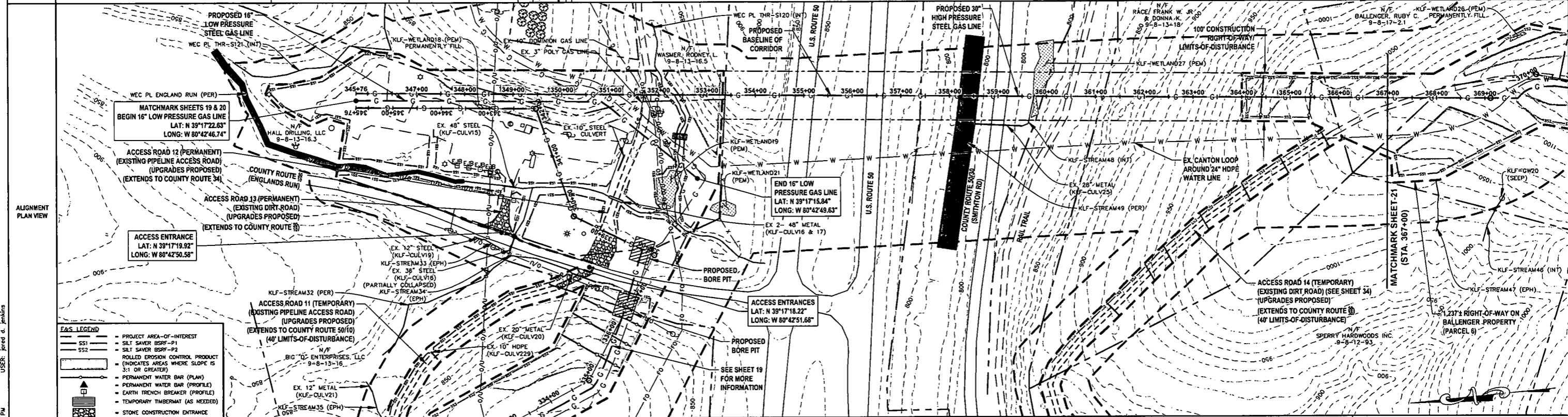
CHECKED: JLS, JMH (TDS)

SHEET 19

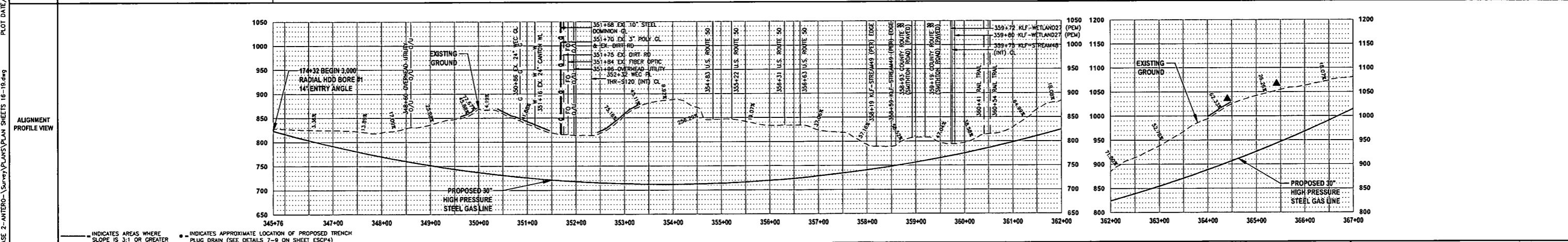
SHT. NAME: 050-6321\STRICKLING\PLAN15 REV. 2

LAYOUT TAB: PLAN15  
 CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Plans\PLAN15.dwg  
 PLOT DATE/TIME: 6/20/2017 1:37 PM  
 USER: jared d. jenkins

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	345+76	HALL DRILLING LLC 9-8-13-16.3 HORIZ. DIST. = 296'± SLOPE DIST. = 304'±	348+72	WASHER, RODNEY L. 9-8-13-16.5 HORIZ. DIST. = 465'± SLOPE DIST. = 469'±	RAIL TRAIL HORIZ. DIST. = 123'± SLOPE DIST. = 126'±	353+38	UNITED STATES ROUTE 50 HORIZ. DIST. = 402'± SLOPE DIST. = 403'±	RACE, FRANK W. JR. 9-8-13-18 HORIZ. DIST. = 85'± SLOPE DIST. = 88'±	357+40	COUNTY ROUTE 50 (SMITHTON ROAD) HORIZ. DIST. = 252'± SLOPE DIST. = 255'±	359+92	361+15	362+00	SEPARATION IN PROFILE	362+00	RACE, FRANK W. JR. 9-8-13-18 HORIZ. DIST. = 382'± SLOPE DIST. = 406'±	BALLENGER, RUBY C. 9-8-17-2.1 HORIZ. DIST. = 118'± SLOPE DIST. = 130'±	365+82	367+00
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DESIGN CLASS LOCATION	345+76	CLASS 1	362+00	SEPARATION IN PROFILE	362+00	CLASS 1	367+00
PIPE DETAIL	345+76	1.645'	362+00	SEPARATION IN PROFILE	362+00	535'	367+00



**THRASHER**

IFP  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'  
VERT. SCALE IN FEET: 1" = 20'

SUMMARY OF MATERIALS (3D)	
② 30" STEEL API SL PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	2,181 LF
③ 16" STEEL API SL PSL-2, X-52, 0.375" WALL, FBE COATED PIPE	734 LF
④ 16" STEEL API SL PSL-2, X-52, 0.500" WALL, ARO COATED PIPE	40 LF
RECP ROLLED EROSION CONTROL PRODUCT	12,322 SF
SS2 SILT SAVER BSRF-P2	515 LF
WB PERMANENT WATERBARS	2
TS TEST STATIONS	1

SUMMARY OF MATERIALS (3D)	
1 REVISED PER COMMENTS FROM ANTERO	06/07/17
2 REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

REVISION	
NO.	DESCRIPTION
1	REVISED PER COMMENTS FROM ANTERO
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.

GENERAL INFORMATION	
1. PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig	
2. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	
3. ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	
4. BASELINE STATION DEPICTED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.	
5. FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	
6. THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.	
7. ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.	
8. ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.	
9. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.	
10. FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 345+76 TO STA. 367+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

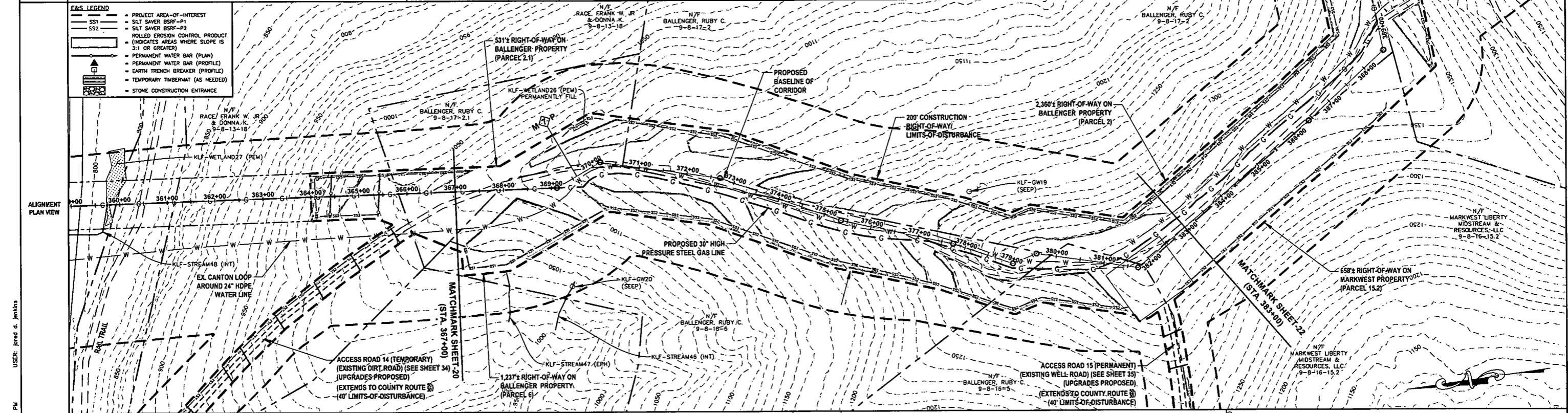
DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: J.M. RA. (TIC)  
CHECKED: M. J.M. (TIC)

SHEET 20  
SHT. NAME: 050-6321\STRICKLING\PLAN16 REV. 2

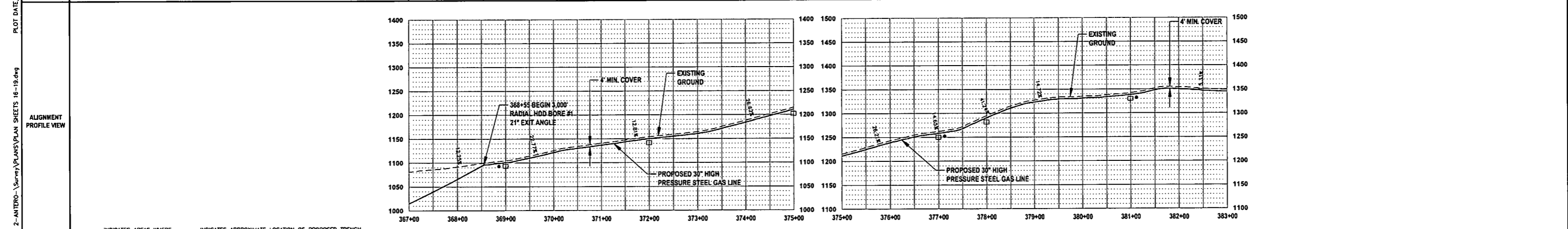
USER: jared d. jenkins  
PLOT DATE/TIME: 6/20/2017 2:00 PM  
LAYOUT TAB: PLAN16  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 16-19.dwg



OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	BALLENGER, RUBY C. 9-8-17-2.1 HORIZ. DIST. = 90'± SLOPE DIST. = 101'±	BALLENGER, RUBY C. 9-8-16-6 HORIZ. DIST. = 227'± SLOPE DIST. = 239'±	BALLENGER, RUBY C. 9-8-17-2.1 HORIZ. DIST. = 48'± SLOPE DIST. = 48'±	BALLENGER, RUBY C. 9-8-17-2 HORIZ. DIST. = 340'± SLOPE DIST. = 345'±	BALLENGER, RUBY C. 9-8-16-6 HORIZ. DIST. = 95'± SLOPE DIST. = 98'±	BALLENGER, RUBY C. 9-8-16-5 HORIZ. DIST. = 488'± SLOPE DIST. = 506'±	BALLENGER, RUBY C. 9-8-17-2 HORIZ. DIST. = 120'± SLOPE DIST. = 120'±	BALLENGER, RUBY C. 9-8-16-5 HORIZ. DIST. = 192'± SLOPE DIST. = 194'±			
STATIONING & P.I. ANGLES	367+00	367+00	P.I. 369+11 ANGLE: 28° LT	P.I. 370+17 ANGLE: 38° RT	P.I. 372+69 ANGLE: 12° RT	P.I. 375+36 ANGLE: 08° LT	P.I. 377+74 ANGLE: 06° RT	P.I. 379+05 ANGLE: 41° LT	P.I. 379+59 ANGLE: 31° RT	P.I. 381+71 ANGLE: 48° LT	383+00



DESIGN CLASS	CLASS 1		CLASS 1	
LOCATION	367+00	375+00	375+00	383+00
PIPE DETAIL	17'±	65'±	82'±	67'±



INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER. INDICATES APPROXIMATE LOCATION OF PROPOSED TRENCH PLUG DRAIN (SEE DETAILS 7-9 ON SHEET ESCP4)

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'  
VERT. SCALE IN FEET: 1" = 20'

SUMMARY OF MATERIALS (3D)	
① 30" STEEL API SL PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	1,495 LF
② 30" STEEL API SL PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	174 LF
RECP ROLLED EROSION CONTROL PRODUCT	152,364 SF
SS1 SILT SAVER BSRF-P1	385 LF
SS2 SILT SAVER BSRF-P2	2,496 LF
TB EARTH TRENCH BREAKERS	6
GM GAS LINE MARKERS	9
TS TEST STATIONS	1

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION
1	REVISED PER COMMENTS FROM ANTERO
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.

GENERAL INFORMATION	
1.	PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
2.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
3.	ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
4.	BASELINE STATION DEPICTED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
5.	FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
6.	THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
7.	ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
8.	ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
9.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
10.	FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 367+00 TO STA. 383+00

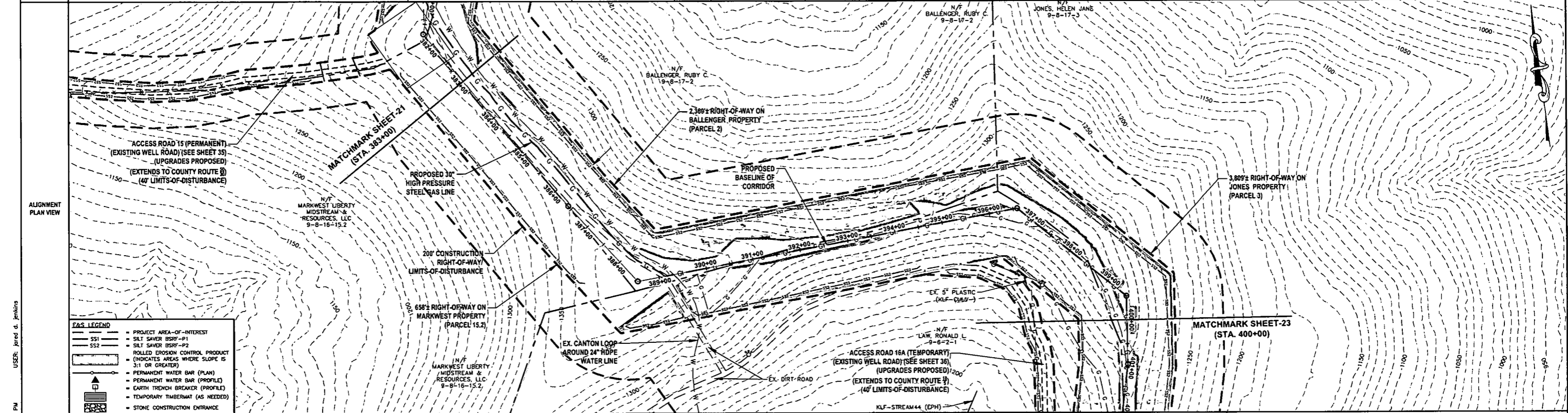
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/7/2017  
SCALE: AS SHOWN  
DRAWN BY: JWA, RLA (TIS)  
CHECKED: AR, JPL (TIS)

SHEET 21  
SHT. NAME: 050-6321\STRICKLING\PLAN17

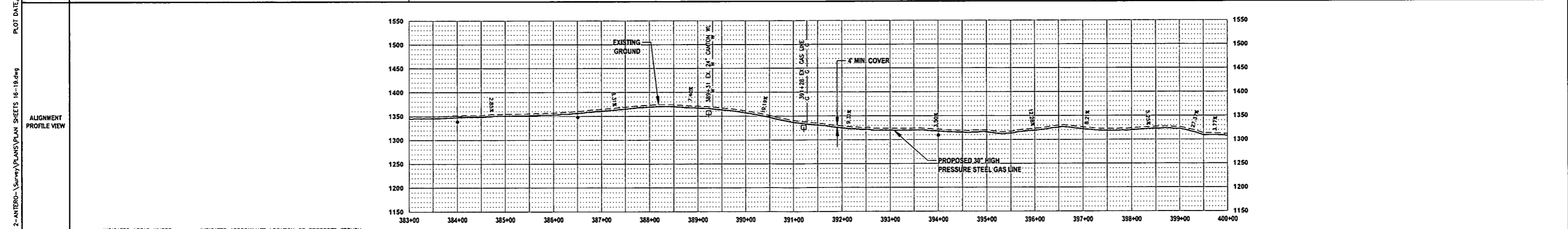
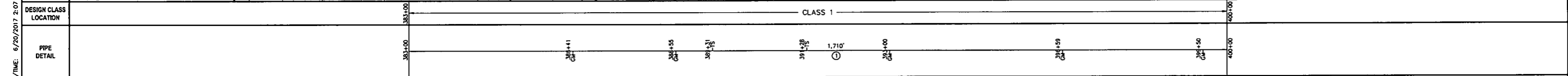
LAYOUT TAB: PLAN17  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 16-19.dwg  
PLOT DATE/TIME: 6/20/2017 2:04 PM  
USER: Jared A. Jenkins

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	383+00	BALLENGER, RUBY C. 9-8-17-2 HORIZ. DIST. = 800'± SLOPE DIST. = 804'±	391+00	LAW, RONALD L. 9-8-17-2 HORIZ. DIST. = 754'± SLOPE DIST. = 758'±	398+54	JONES, HELEN JANE 9-8-17-3 HORIZ. DIST. = 146'± SLOPE DIST. = 148'±	400+00
STATIONING & P.I. ANGLES	383+00	P.I. 388+41 ANGLE: 0° LT	P.I. 388+55 ANGLE: 58° LT	389+31 EX. 24" CANTON W. WATER LINE	391+28 EX. GAS LINE	P.I. 398+59 ANGLE: 50° RT	P.I. 399+50 ANGLE: 50° RT



**F&S LEGEND**

- PROJECT AREA-OF-INTEREST
- SILT SAVER BSRF-P1
- SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT
- (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- PERMANENT WATER BAR (PLAN)
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- TEMPORARY TIMBERMAT (AS NEEDED)
- STONE CONSTRUCTION ENTRANCE



**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'

VERT. SCALE IN FEET: 1" = 20'

**SUMMARY OF MATERIALS (3D)**

① 30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	1,710 LF
RECP ROLLED EROSION CONTROL PRODUCT	209,012 SF
SS2 SILT SAVER BSRF-P2	3,014 LF
TB EARTH TRENCH BREAKERS	2
GM GAS LINE MARKERS	5
TS TEST STATIONS	2

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 J.R.A.
2	REVISED PER COMMENTS FROM KLENFELDER, INC.	06/20/17 J.R.A.

**REVISION**

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO		06/07/17	J.R.A.		
2	REVISED PER COMMENTS FROM KLENFELDER, INC.		06/20/17	J.R.A.		

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID128), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLENFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS. REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 383+00 TO STA. 400+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924

SCALE: AS SHOWN

DRAWN BY: J.R.A. (TIC)

CHECKED: A.R. (TIC)

SHEET 22

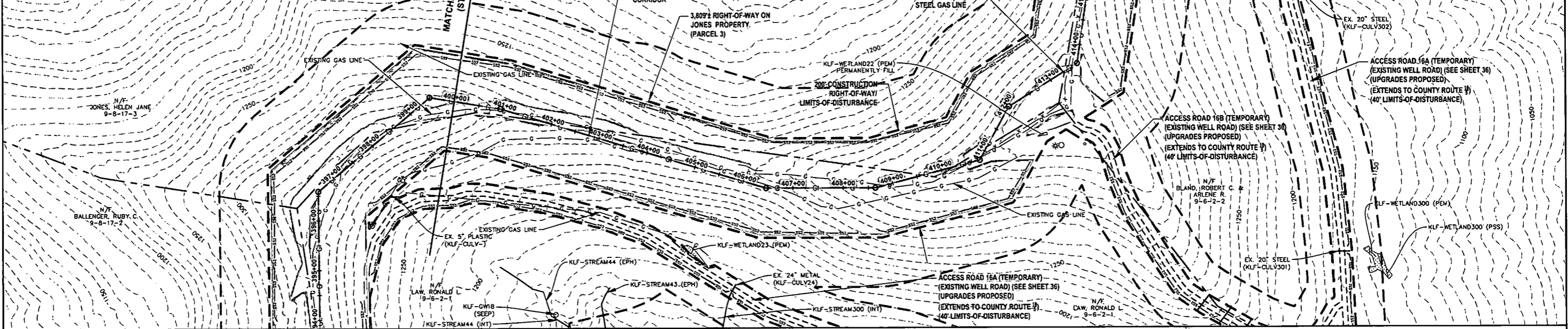
SHT. NAME: 050-6321\STRICKLING\PLAN18

REV. 2

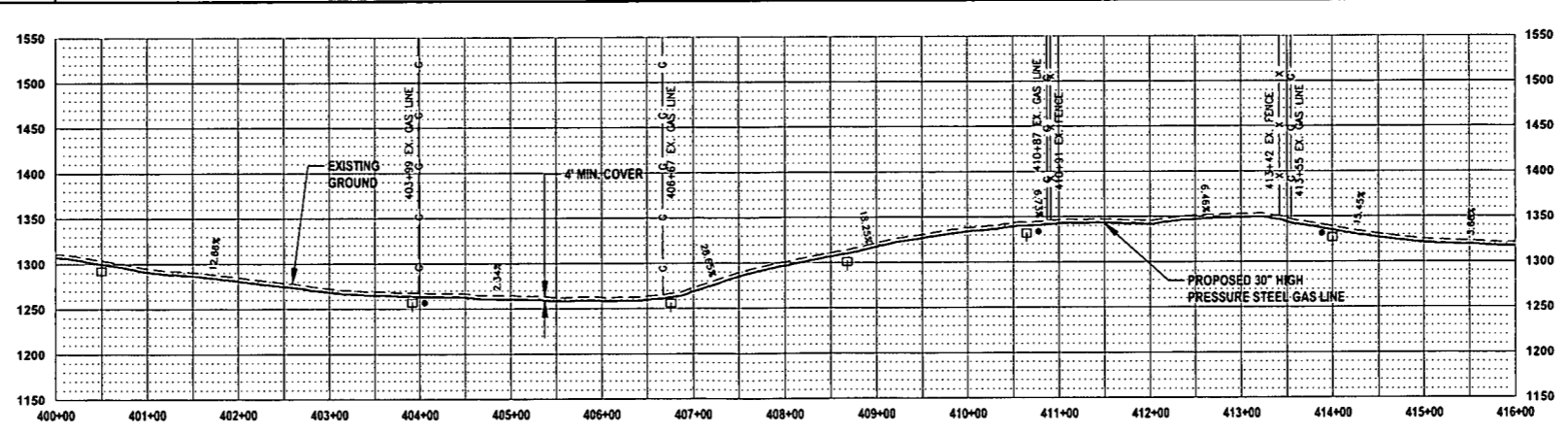
USER: Jared G. Jemians  
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 LAYOUT TAB: PLAN18  
 CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 16-19.dwg

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	400+00	JONES, HELEN JANE 9-8-17-3 HORIZ. DIST. = 176± SLOPE DIST. = 176±	LAW, RONALD L. 9-8-17-2 HORIZ. DIST. = 785± SLOPE DIST. = 785±	JONES, HELEN JANE 9-8-17-3 HORIZ. DIST. = 65± SLOPE DIST. = 65±	LAW, RONALD L. 9-8-17-2 HORIZ. DIST. = 84± SLOPE DIST. = 84±	JONES, HELEN JANE 9-8-17-3 HORIZ. DIST. = 223± SLOPE DIST. = 224±	BLAND, ROBERT C. & ARLENE R. 9-6-2-2 HORIZ. DIST. = 287± SLOPE DIST. = 270±	416+00
STATIONING & P.I. ANGLES	400+00	P.L. 400+93 ANGLE: 98° RT	403+98 EX. GAS LINE	P.L. 408+47 ANGLE: 17° LT	P.L. 408+67 EX. GAS LINE	P.L. 410+79 ANGLE: 46° RT	P.L. 412+02 ANGLE: 29° RT	416+00

- E&S LEGEND**
- PROJECT AREA-OF-INTEREST
  - SILT SAVER BSRF-P1
  - SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - PERMANENT WATER BAR (PLAN)
  - PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - TEMPORARY TIMBERMAT (AS NEEDED)
  - STONE CONSTRUCTION ENTRANCE



DESIGN CLASS LOCATION	CLASS 1								
PIPE DETAIL	400+00	404+93	403+98	408+47	1.616'	408+67	414+79	412+02	416+00



INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER  
 INDICATES APPROXIMATE LOCATION OF PROPOSED TRENCH PLUG DRAIN (SEE DETAILS 7-9 ON SHEET ESCP4)

**THRASHER**

IFP  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

0 100 200  
HORIZ. SCALE IN FEET

0 100 200  
VERT. SCALE IN FEET

SUMMARY OF MATERIALS (3D)		
30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	1,616 LF	
ROLLED EROSION CONTROL PRODUCT	266,221 SF	
SILT SAVER BSRF-P2	2,896 LF	
EARTH TRENCH BREAKERS	6	
GAS LINE MARKERS	7	
TEST STATIONS	2	

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/26/17

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION DEPICTED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
STA. 400+00 TO STA. 416+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES  
OODRIDGE COUNTY, WEST VIRGINIA

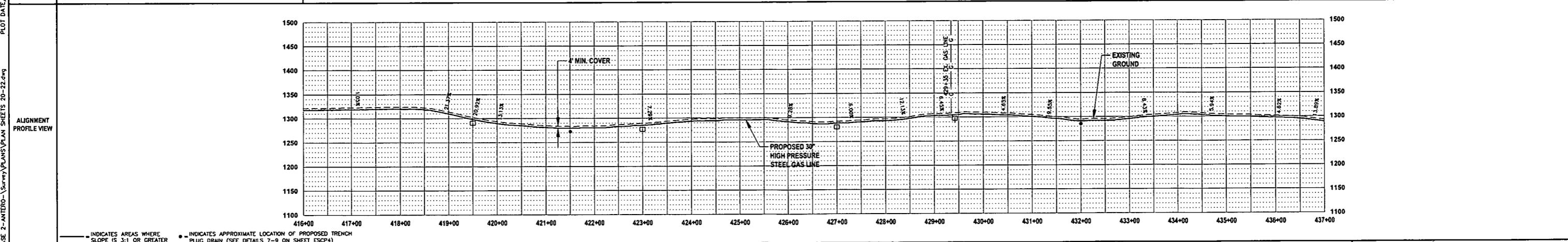
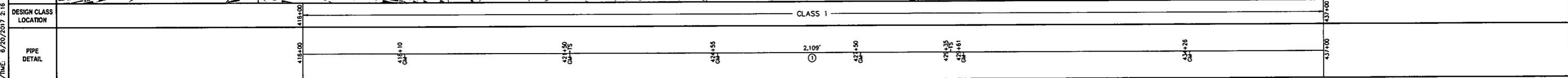
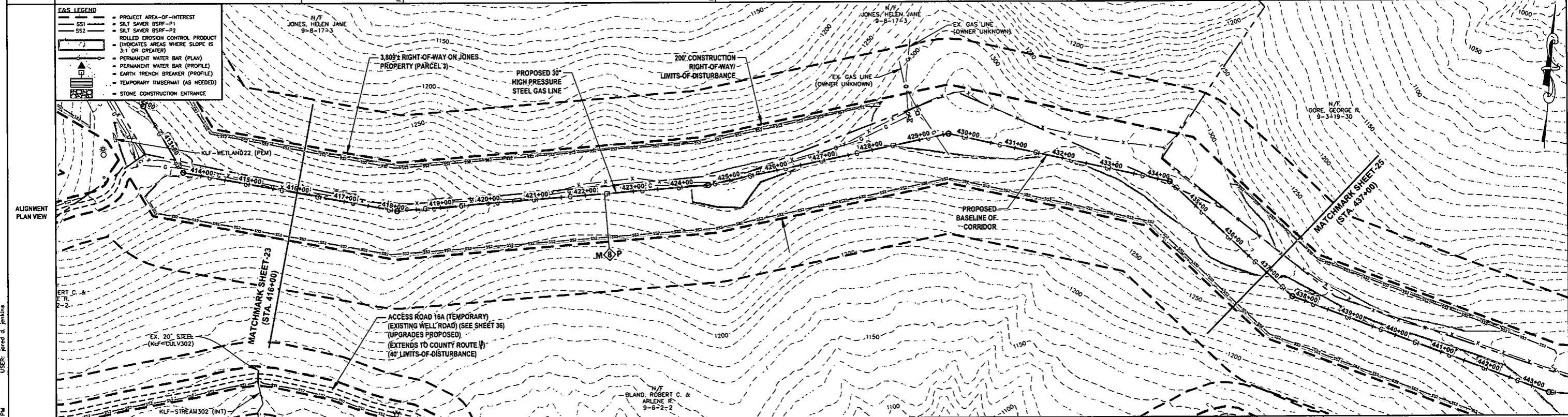
DATE: 6/7/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RJA (TIG)  
CHECKED: AR, JRI (TIG)

SHEET 23  
SHT. NAME: 050-6321\STRICKLING\PLAN19

REV. 2

LAYOUT TAB: PLAN19  
CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 16-19.dwg  
USER: jared d. jenkins  
PLOT DATE/TIME: 6/20/2017 2:10 PM

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	418+00	418+00	418+10	418+10	424+35	424+35	429+35	429+35	434+18	434+18	437+00	437+00
STATIONING & P.A. ANGLES			P.L. 418+10 ANGLE: 15' LT		P.L. 424+35 ANGLE: 07' LT		P.L. 429+35 EX. GAS LINE ANGLE: 24' RT		P.L. 434+18 ANGLE: 31' RT			
					BLAND, ROBERT C. & ARLENE R. 9-6-2-2 HORIZ. DIST. = 1,789± SLOPE DIST. = 1,797±				JONES, HELEN JANE 9-8-17-3 HORIZ. DIST. = 59± SLOPE DIST. = 59±			BLAND, ROBERT C. & ARLENE R. 9-6-2-2 HORIZ. DIST. = 252± SLOPE DIST. = 253±



**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'

VERT. SCALE IN FEET: 1" = 200'

**SUMMARY OF MATERIALS (3D)**

①	30" STEEL API SL PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,109 LF
RECP	ROLLED EROSION CONTROL PRODUCT	302,945 SF
SS2	SILT SAVER BSRF-P2	3,432 LF
TB	EARTH TRENCH BREAKERS	4
GM	GAS LINE MARKERS	6
TS	TEST STATIONS	2

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JAA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JAA

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**

Midstream Partners LP

**STRICKLING PIPELINE**

STA. 416+00 TO STA. 437+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017

SCALE: AS SHOWN

DRAWN BY: JAA (TIC)

CHECKED: JAA (TIC)

SHEET 24

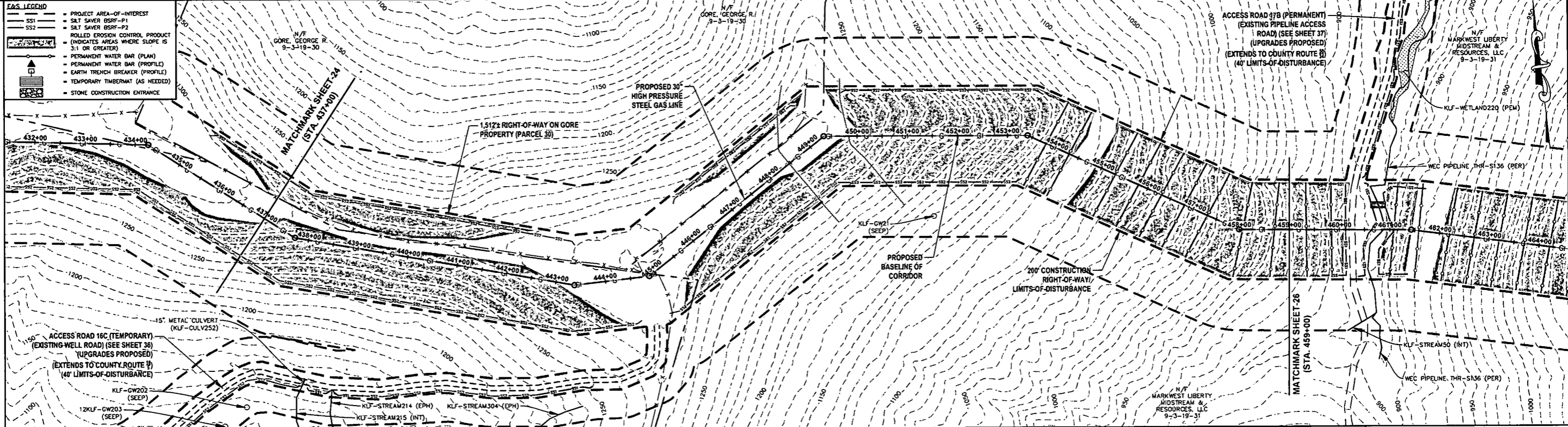
SHT. NAME: 050-6321\STRICKLING\PLAN20

REV. 2

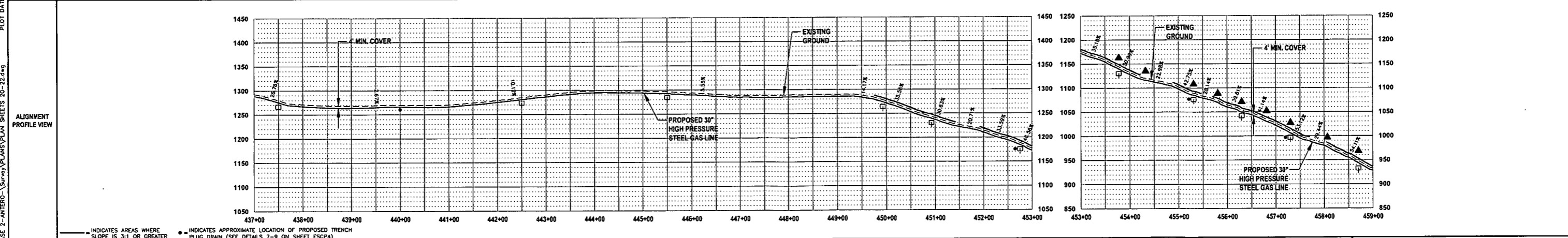
LAYOUT TAB: PLAN20  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 20-22.dwg  
 PLOT DATE/TIME: 6/20/2017 2:16 PM  
 USER: jared d. jenkins

OWNERSHIP, PARCEL NO. & LENGTH (FT) OF PIPE	437+00	444+87	453+00	459+00
STATIONING & P.I. ANGLES	P.I.: 437+72 ANGLE: 23° LT	P.I.: 443+37 ANGLE: 16° LT	P.I.: 444+87 ANGLE: 32° LT	P.I.: 449+34 ANGLE: 32° RT
	BLAND, ROBERT C. & ARLENE R. 9-6-2-2 HORIZ. DIST. = 794± SLOPE DIST. = 798±	MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC. 9-3-19-31 HORIZ. DIST. = 806± SLOPE DIST. = 826±	MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC. 9-3-19-31 HORIZ. DIST. = 600± SLOPE DIST. = 652±	

- E&S LEGEND**
- PROJECT AREA-OF-INTEREST
  - SILT SAVER BSRF-P1
  - SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT
  - (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - PERMANENT WATER BAR (PLAN)
  - PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - TEMPORARY TIMBERMAT (AS NEEDED)
  - STONE CONSTRUCTION ENTRANCE



DESIGN CLASS	CLASS 1				CLASS 1			
LOCATION	437+00	443+37	444+87	1,624'	453+00	453+00	453+00	459+00
PIPE DETAIL	437+00	437+72	443+37	1,624'	453+00	453+00	453+00	459+00



**THRASHER**

IFP  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET: 1" = 100'  
VERT. SCALE IN FEET: 1" = 20'

SUMMARY OF MATERIALS (3D)		SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION	QTY	NO.
1	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	2,276 LF	
2	ROLLED EROSION CONTROL PRODUCT	304,004 SF	
3	SILT SAVER BSRF-P2	2,940 LF	
4	EARTH TRENCH BREAKERS	11	
5	PERMANENT WATERBARS	9	
6	GAS LINE MARKERS	6	
7	TEST STATIONS	1	

REVISION	
NO.	DESCRIPTION
1	REVISED PER COMMENTS FROM ANTERO
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCH INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS. REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

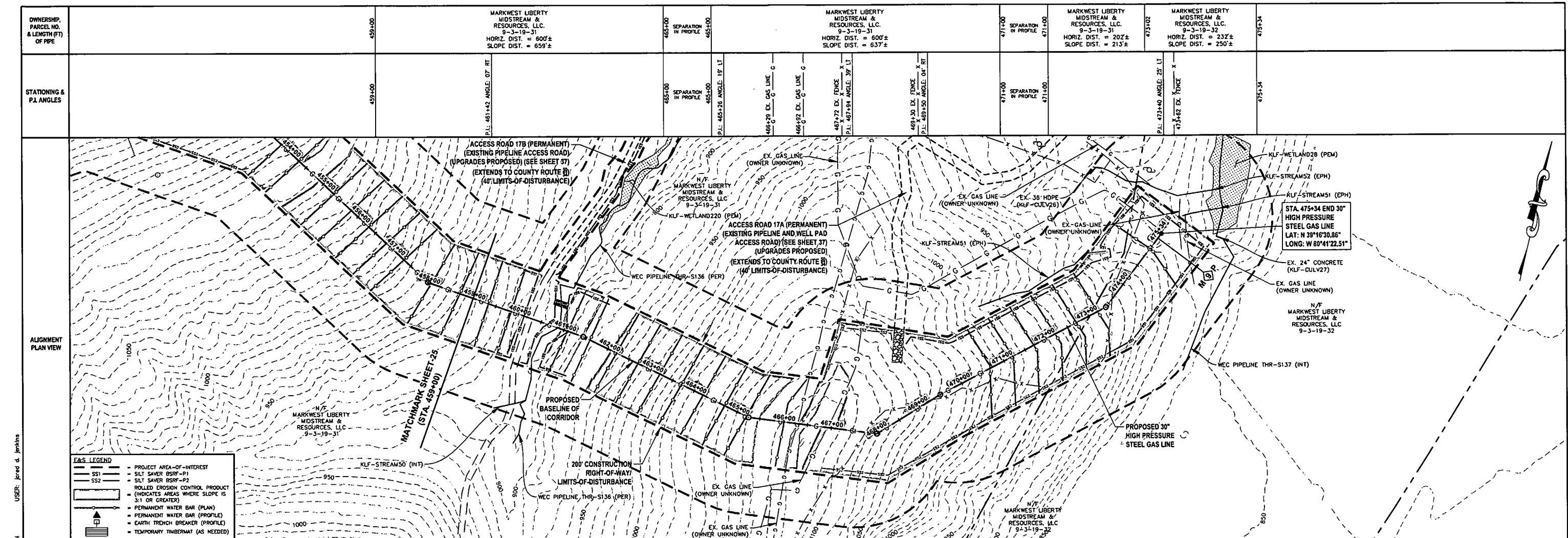
**Antero Midstream Partners LP**

**STRICKLING PIPELINE**  
STA. 437+00 TO STA. 459+00

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

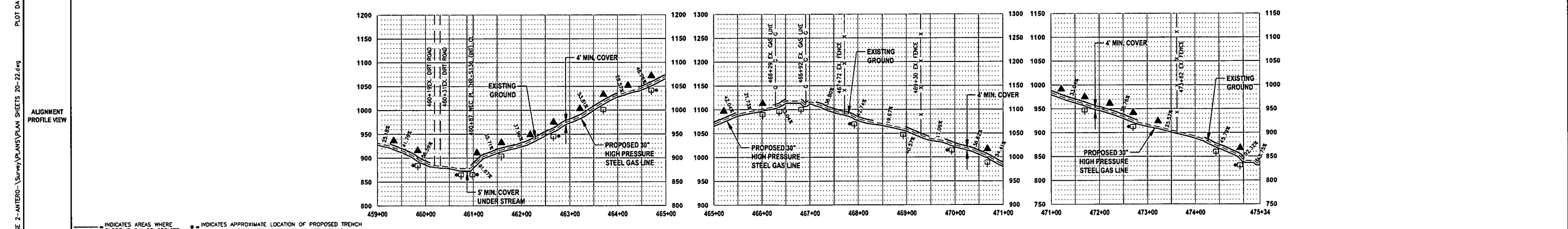
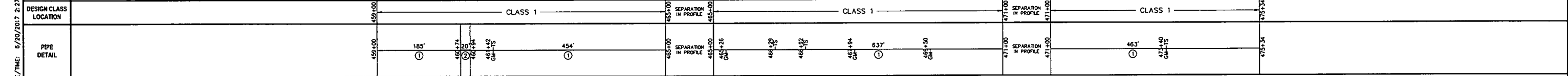
DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: J.S. (TIC)  
CHECKED: J.S. (TIC)  
SHEET 25  
SHT. NAME: 050-6321\STRICKLING\PLAN21  
REV: 2

LAYOUT TAB: PLAN21  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 20-22.dwg  
PLOT DATE/TIME: 6/20/2017 2:23 PM  
USER: Jared L. Jenkins



- E&S LEGEND**
- PROJECT AREA-OF-INTEREST
  - SILT SAVER BSRF-P1
  - SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - PERMANENT WATER BAR (PLAN)
  - PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - TEMPORARY TIMBERMATT (AS NEEDED)
  - STONE CONSTRUCTION ENTRANCE

USER: jared d. Jenkins  
 PLOT DATE/TIME: 8/20/2017 2:27 PM  
 LAYOUT TAB: PLAN22  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\PLAN SHEETS 20-22.dwg



■ INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER  
 ● INDICATES APPROXIMATE LOCATION OF PROPOSED TRENCH PLUG DRAIN (SEE DETAILS 7-9 ON SHEET ESCP4)

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

0 100 200  
HORIZ. SCALE IN FEET

0 100 200  
VERT. SCALE IN FEET

**SUMMARY OF MATERIALS (3D)**

①	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, FBE COATED PIPE	1,739 LF
②	30" STEEL API 5L PSL-2, X-70, 0.500" WALL, ARO COATED PIPE	20 LF
RECP	ROLLED EROSION CONTROL PRODUCT	291,573 SF
SS1	SILT SAVER BSRF-P1	1,894 LF
SS2	SILT SAVER BSRF-P2	913 LF
TB	EARTH TRENCH BREAKERS	18
WB	PERMANENT WATERBARS	19
GM	GAS LINE MARKERS	5
TS	TEST STATIONS	4
NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JDA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 JDA
NO.	DESCRIPTION	DATE BY

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
 HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
 VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - ALL SHEET BANDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI O (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

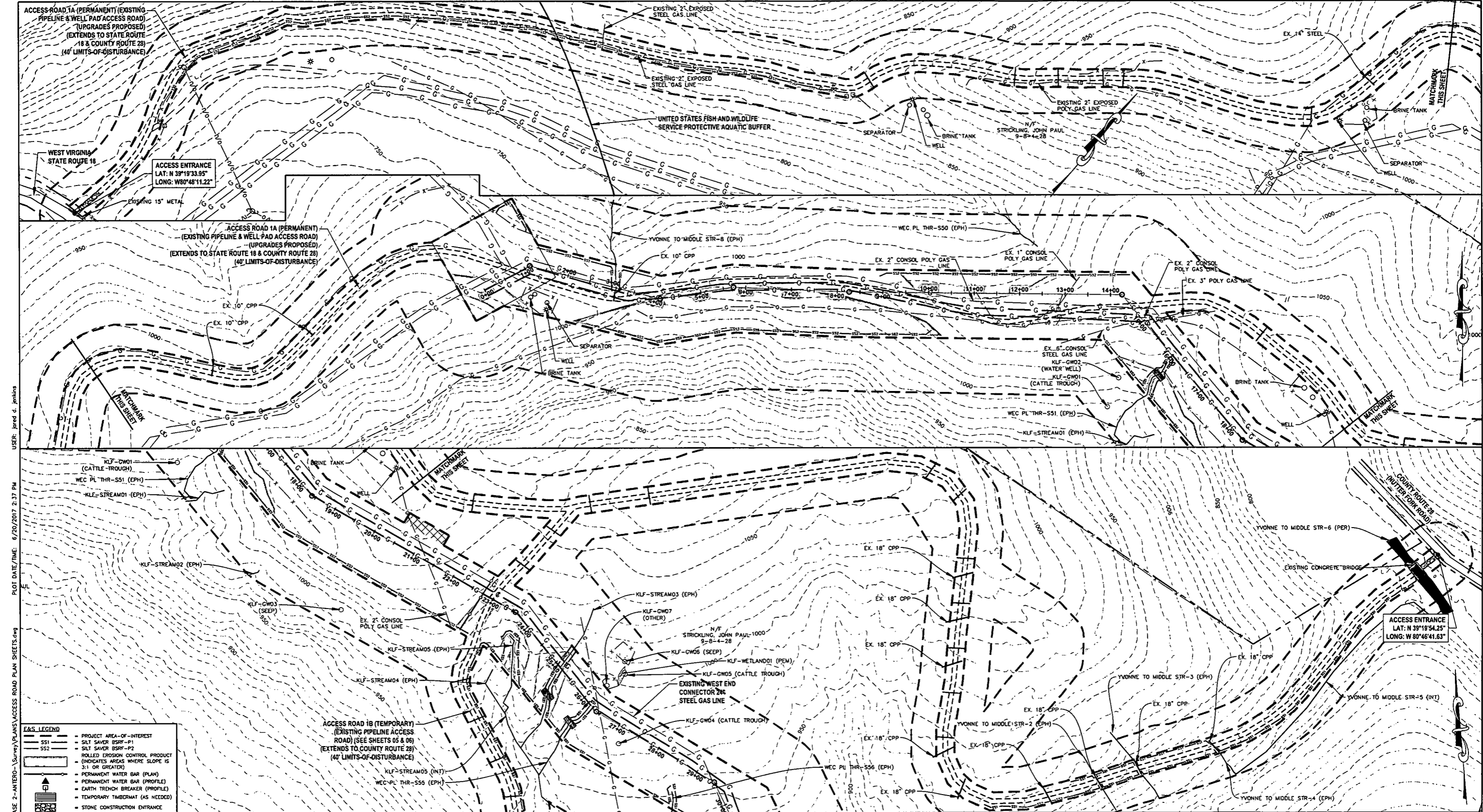
**Antero**  
**Midstream Partners LP**

**STRICKLING PIPELINE**  
STA. 459+00 TO STA. 475+34

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 8/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, R.B. (TDS)  
CHECKED: AR, JDN (TDS)

SHEET 26  
SHT. NAME: 050-6321\STRICKLING\PLAN22 [REV. 2]



USER: Jared d. Jamison  
 PLOT DATE/TIME: 6/20/2017 2:37 PM  
 LAYOUT TAB: ARI  
 CAD FILE: R:\050-6321-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg

**F&S LEGEND**

	PROJECT AREA-OF-INTEREST
	SILT SAVER BSRF-P1
	SILT SAVER BSRF-P2
	ROLLED EROSION CONTROL PRODUCT
	PERMANENT WATER BAR (PLAN)
	PERMANENT WATER BAR (PROFILE)
	EARTH TRENCH BREAKER (PROFILE)
	TEMPORARY TIMBERMATS (AS NEEDED)
	STONE CONSTRUCTION ENTRANCE

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET  
0 100 200

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
SS1	SILT SAVER BSRF-P1	1,386 LF
SS2	SILT SAVER BSRF-P2	1,690 LF
WB	PERMANENT WATERBARS	19

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

**GENERAL INFORMATION**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- BASELINE STATIONING PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
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**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE ACCESS ROAD PLAN SHEET**

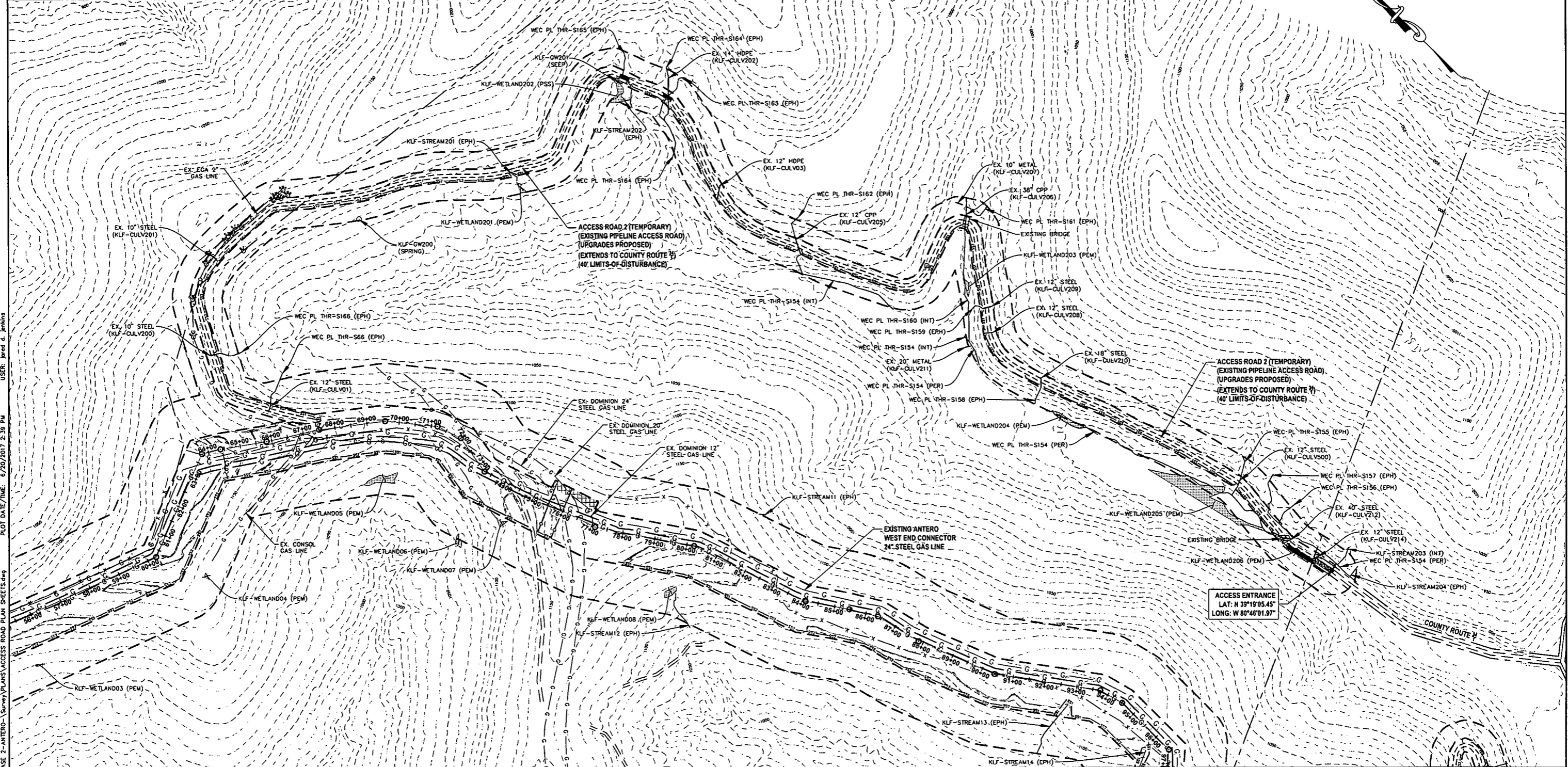
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RJA (T10)  
CHECKED: AR, JMI (T10)

SHEET 27  
SHT. NAME: 050-6321\STRICKLING\ARI  
REV. 2

**E&S LEGEND**

[Symbol]	PROJECT AREA-OF-INTEREST
[Symbol]	SILT SAVER BSRF-P1
[Symbol]	SILT SAVER BSRF-P2
[Symbol]	ROLLED EROSION CONTROL PRODUCT
[Symbol]	(INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
[Symbol]	PERMANENT WATER BAR (PLAN)
[Symbol]	PERMANENT WATER BAR (PROFILE)
[Symbol]	EARTH TRENCH BREAKER (PROFILE)
[Symbol]	TEMPORARY TIMBERMATS (AS NEEDED)
[Symbol]	STONE CONSTRUCTION ENTRANCE



USER: Jared d. Jenkins  
 PLOT DATE/TIME: 6/20/2017 2:39 PM  
 LAYOUT TAB: AR2  
 CAD FILE: R:\050-6321-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

0 150 300  
HORIZ. SCALE IN FEET

SUMMARY OF MATERIALS (3D)	
SS1	SILT SAVER BSRF-P1 3,060 LF
SS2	SILT SAVER BSRF-P2 1,652 LF
NO.	DESCRIPTION
1	REVISED PER COMMENTS FROM ANTERO
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION
1	REVISED PER COMMENTS FROM ANTERO
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.

REVISION			
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JDL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JDL

- GENERAL INFORMATION**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
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**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
ACCESS ROAD PLAN SHEET**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

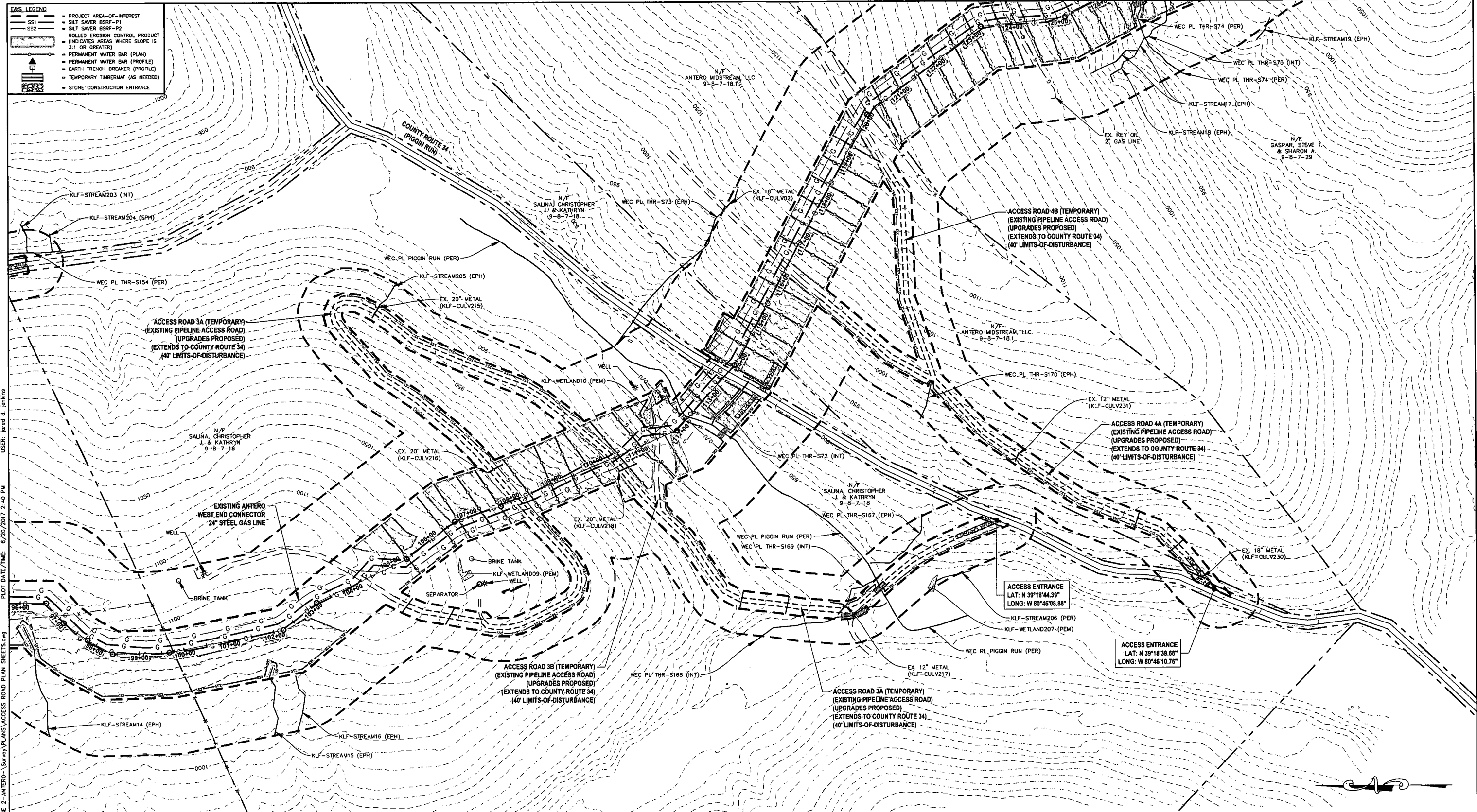
DATE: 6/20/2017 AFE No.: A05924  
SCALE: AS SHOWN  
DRAWN BY: JDL, R.A. (TIG)  
CHECKED: AR, JMI (TIG)

SHEET 28  
SHT. NAME: 050-6321\STRICKLING\AR2 REV. 2



**E&S LEGEND**

- PROJECT AREA-OF-INTEREST
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- PERMANENT WATER BAR (PLAN)
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- TEMPORARY TIMBERMAT (AS NEEDED)
- STONE CONSTRUCTION ENTRANCE



USER: Jared d. Jenkins  
 PLOT DATE/TIME: 6/20/2017 2:40 PM  
 LAYOUT TAB: AR3  
 CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

0 100 200  
HORIZ. SCALE IN FEET

**SUMMARY OF MATERIALS (3D)**

SS1	SILT SAVER BSRF-P1	363 LF
SS2	SILT SAVER BSRF-P2	3,310 LF
WB	PERMANENT WATERBARS	6

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

**GENERAL INFORMATION**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEGD12B), U.S. SURVEY FOOT
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
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- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
**ACCESS ROAD PLAN SHEET**

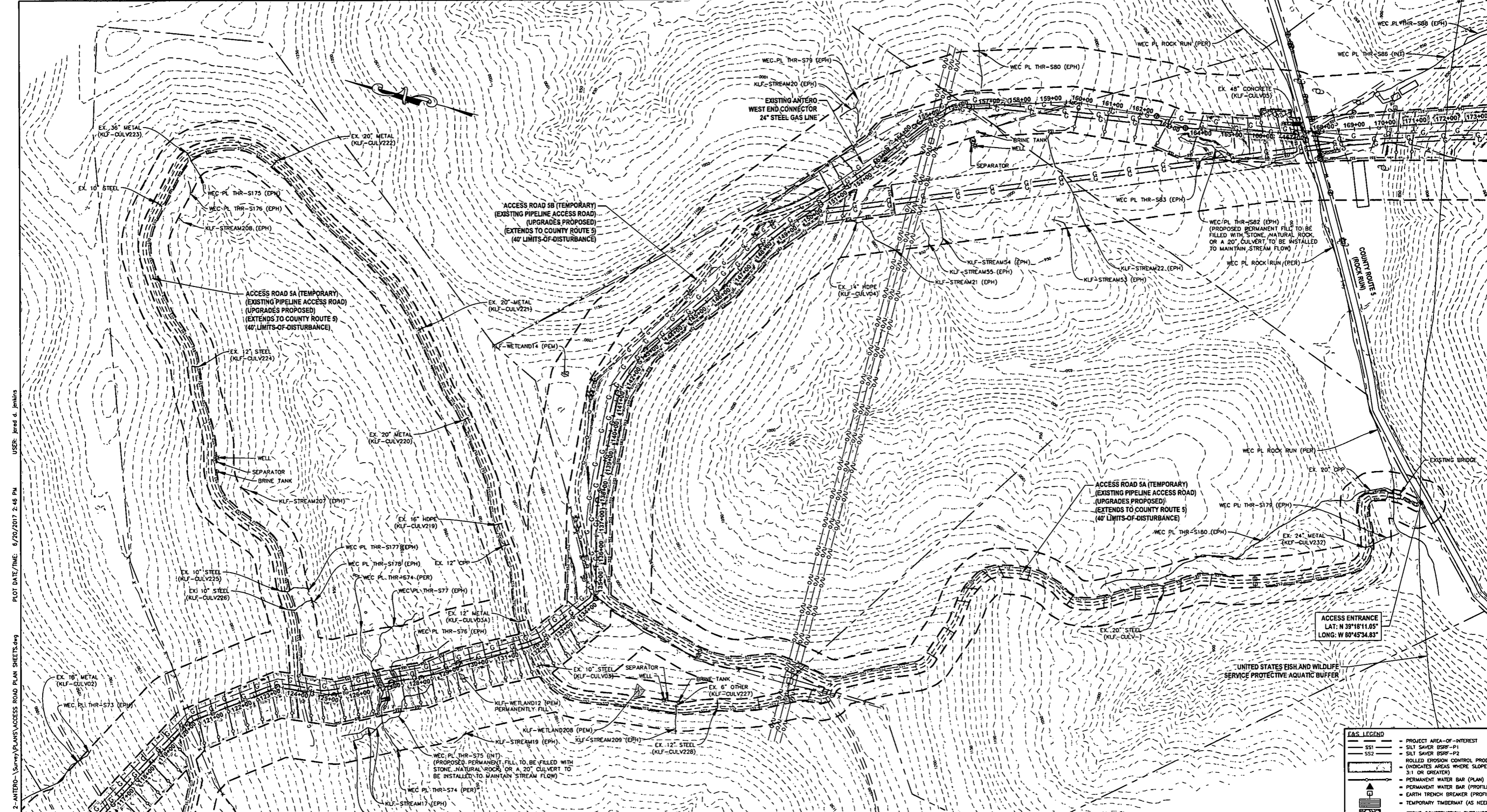
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDL, R.A. (TIG)  
CHECKED: AR, JPH (TIG)

SHEET 29  
SHT. NAME: 050-6321\STRICKLING\AR3

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JDL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	AR



LAYOUT TAB: AR4  
 CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg  
 USER: Jared d. Jenkins  
 PLOT DATE/TIME: 6/20/2017 2:46 PM

ACCESS ENTRANCE  
 LAT: N 39°18'11.05"  
 LONG: W 80°45'34.83"

E&S LEGEND	
	PROJECT AREA-OF-INTEREST
	SILT SAVER BSRF-P1
	SILT SAVER BSRF-P2
	ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
	PERMANENT WATER BAR (PLAN)
	PERMANENT WATER BAR (PROFILE)
	EARTH TRENCH BREAKER (PROFILE)
	TEMPORARY TIMBERMAT (AS NEEDED)
	STONE CONSTRUCTION ENTRANCE

**IFP**  
 ISSUED FOR PERMITTING  
 DATE: 06/07/2017  
 AFE # A05924

SUMMARY OF MATERIALS (3D)		
SS1	SILT SAVER BSRF-P1	1,407 LF
SS2	SILT SAVER BSRF-P2	6,177 LF
WB	PERMANENT WATERBARS	15

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

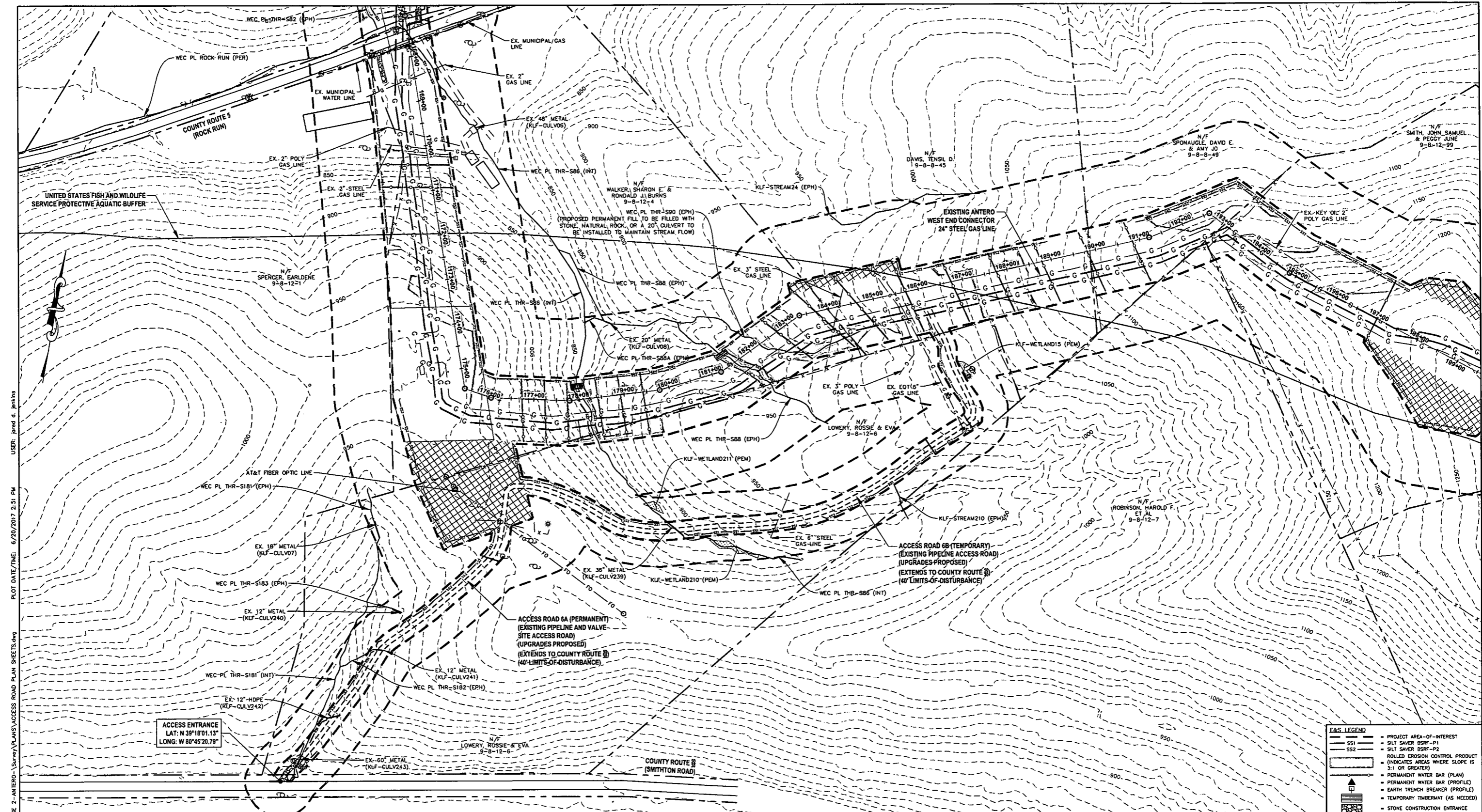
REVISION		
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JDA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 JDA

- ### GENERAL INFORMATION
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
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  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**STRICKLING PIPELINE**  
**ACCESS ROAD PLAN SHEET**  
 PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
 SCALE: AS SHOWN  
 DRAWN BY: JDA, RJA (TIG)  
 CHECKED: AR, JRN (TIG)

SHEET 30  
 SHT. NAME: 050-6321\STRICKLING\AR4  
 REV. 2



LAYOUT TAB: AR5  
 CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg  
 USUR: pored d. jenkins  
 PLOT DATE/TIME: 6/20/2017 2:51 PM

ACCESS ENTRANCE  
 LAT: N 39°18'01.13"  
 LONG: W 80°45'20.79"

E&S LEGEND	
	PROJECT AREA-OF-INTEREST
	SILT SAVER BSRF-P1
	SILT SAVER BSRF-P2
	ROLLED EROSION CONTROL PRODUCT
	INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER
	PERMANENT WATER BAR (PLAN)
	PERMANENT WATER BAR (PROFILE)
	EARTH TRENCH BREAKER (PROFILE)
	TEMPORARY TIMBERMAT (AS NEEDED)
	STONE CONSTRUCTION ENTRANCE

**IFP**  
 ISSUED FOR PERMITTING  
 DATE: 06/07/2017  
 AFE # A05924

DATE: 06/07/2017  
 AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
SS1	SILT SAVER BSRF-P1	899 LF
SS2	SILT SAVER BSRF-P2	1,037 LF
WB	PERMANENT WATERBARS	3

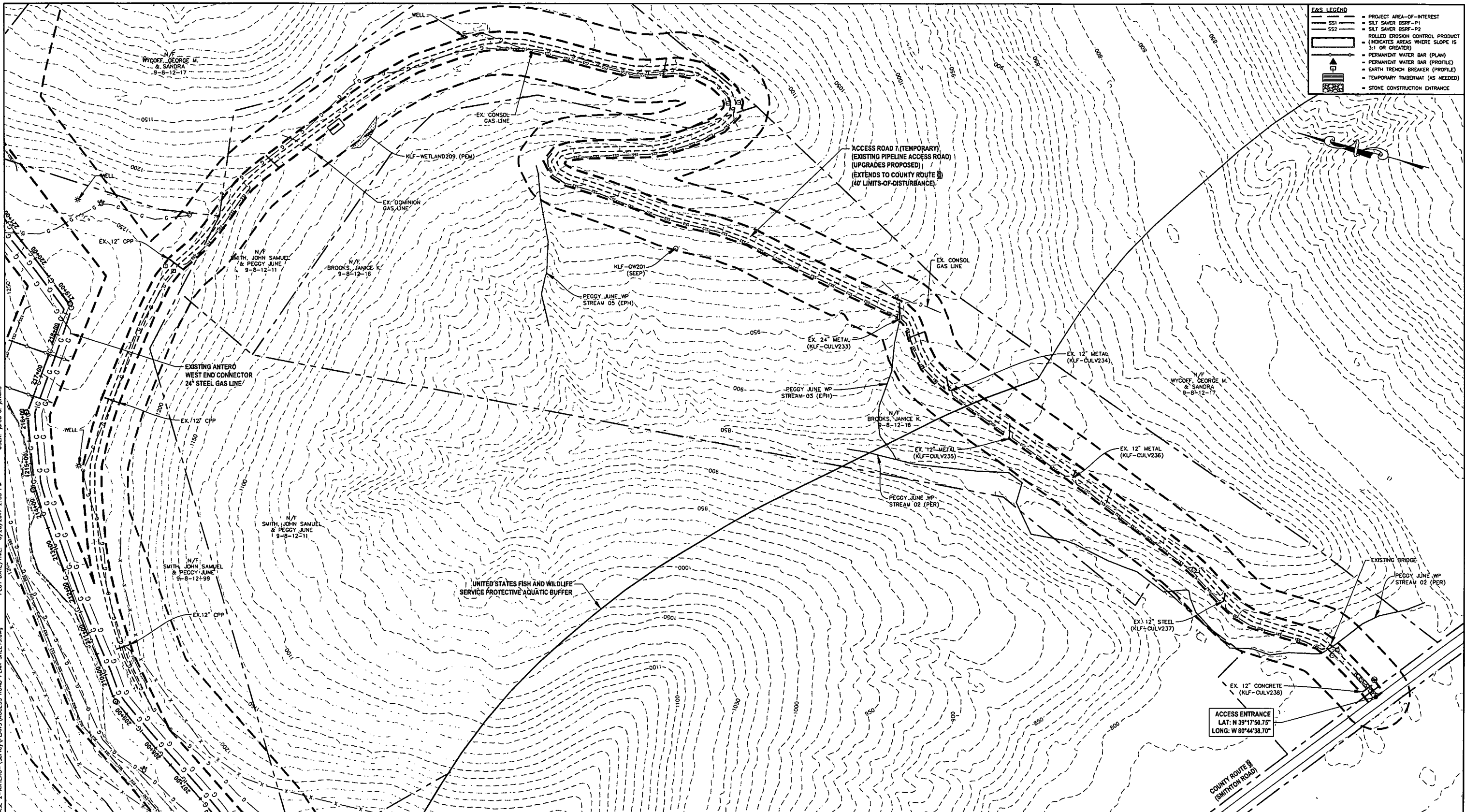
SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
<b>REVISION</b>		
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JJA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 JJA

- GENERAL INFORMATION**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION DEPICTED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
  - ALL EXISTING FENCES AND ROADS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**STRICKLING PIPELINE**  
**ACCESS ROAD PLAN SHEET**  
 PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
 SCALE: AS SHOWN  
 DRAWN BY: JJA, RJA (TIG)  
 CHECKED: AR, JHN (TIG)  
 SHEET 31  
 SHT. NAME: 050-6321\STRICKLING\AR5  
 REV. 2

LAYOUT TAB: AR6  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-SURVEY\PLANS\ACCESS ROAD PLAN SHEETS.dwg  
 PLOT DATE/TIME: 6/20/2017 2:53 PM  
 USER: jared d. jenkins



**E&S LEGEND**

[Symbol]	PROJECT AREA-OF-INTEREST
[Symbol]	SILT SAVER BSRF-P1
[Symbol]	SILT SAVER BSRF-P2
[Symbol]	ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
[Symbol]	PERMANENT WATER BAR (PLAN)
[Symbol]	PERMANENT WATER BAR (PROFILE)
[Symbol]	EARTH TRENCH BREAKER (PROFILE)
[Symbol]	TEMPORARY TIMBERMAT (AS NEEDED)
[Symbol]	STONE CONSTRUCTION ENTRANCE

**THRASHER**

**IFP**  
 ISSUED FOR PERMITTING

DATE: 06/07/2017  
 AFE # A05924

HORIZ. SCALE IN FEET  
 0 100 200

**SUMMARY OF MATERIALS (3D)**

SS1	SILT SAVER BSRF-P1	543 LF
SS2	SILT SAVER BSRF-P2	2,736 LF
WB	PERMANENT WATERBARS	3

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JAL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JAL

- GENERAL INFORMATION**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASILINE STATION DEPICTED PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
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**Antero**  
 Midstream Partners LP

**STRICKLING PIPELINE ACCESS ROAD PLAN SHEET**

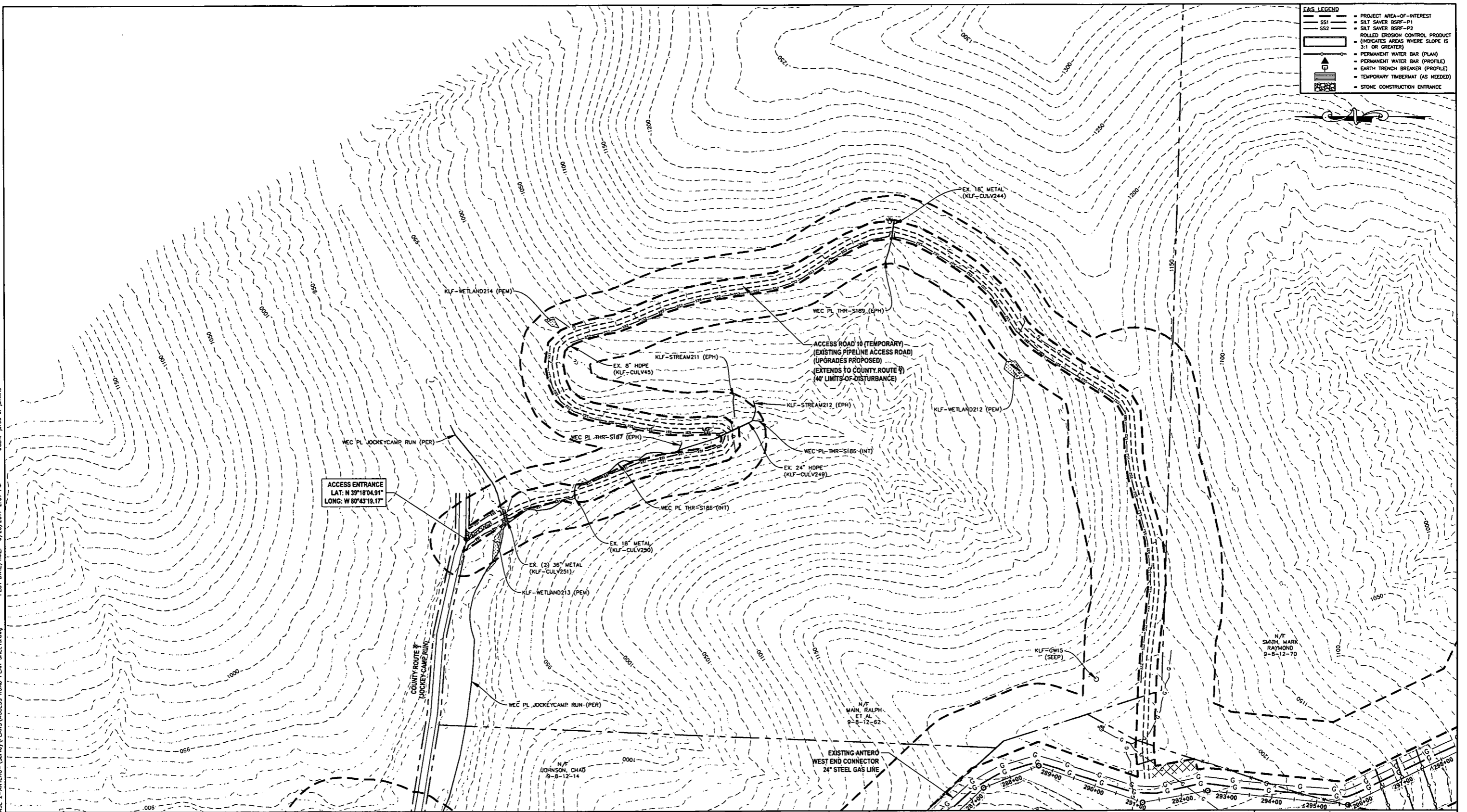
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924  
 SCALE: AS SHOWN  
 DRAWN BY: JAL, RJA (TIG)  
 CHECKED: AR, JRM (TIG) SHEET 32  
 SHT. NAME: 050-6321\STRICKLING\AR6 REV. 2

LAYOUT TAB: AR7  
 CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg  
 PLOT DATE/TIME: 6/20/2017 2:57 PM  
 USER: jared d. jenkins

**E&S LEGEND**

[Symbol]	PROJECT AREA-OF-INTEREST
[Symbol]	SILT SAVER BSRF-P1
[Symbol]	SILT SAVER BSRF-P2
[Symbol]	ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
[Symbol]	PERMANENT WATER BAR (PLAN)
[Symbol]	PERMANENT WATER BAR (PROFILE)
[Symbol]	EARTH TRENCH BREAKER (PROFILE)
[Symbol]	TEMPORARY TIMBERMAT (AS NEEDED)
[Symbol]	STONE CONSTRUCTION ENTRANCE



ACCESS ENTRANCE  
 LAT: N 39°18'04.91"  
 LONG: W 80°43'19.17"

**THRASHER**

**IFP**  
 ISSUED FOR PERMITTING

DATE: 06/07/2017  
 AFE # A05924

HORIZ. SCALE IN FEET  
 0 100 200

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
SS1	SILT SAVER BSRF-P1	1,204 LF
SS2	SILT SAVER BSRF-P2	2,041 LF
WB	PERMANENT WATERBARS	1

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JDL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 JDL

- GENERAL INFORMATION**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
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**Antero**  
 Midstream Partners LP

**STRICKLING PIPELINE ACCESS ROAD PLAN SHEET**

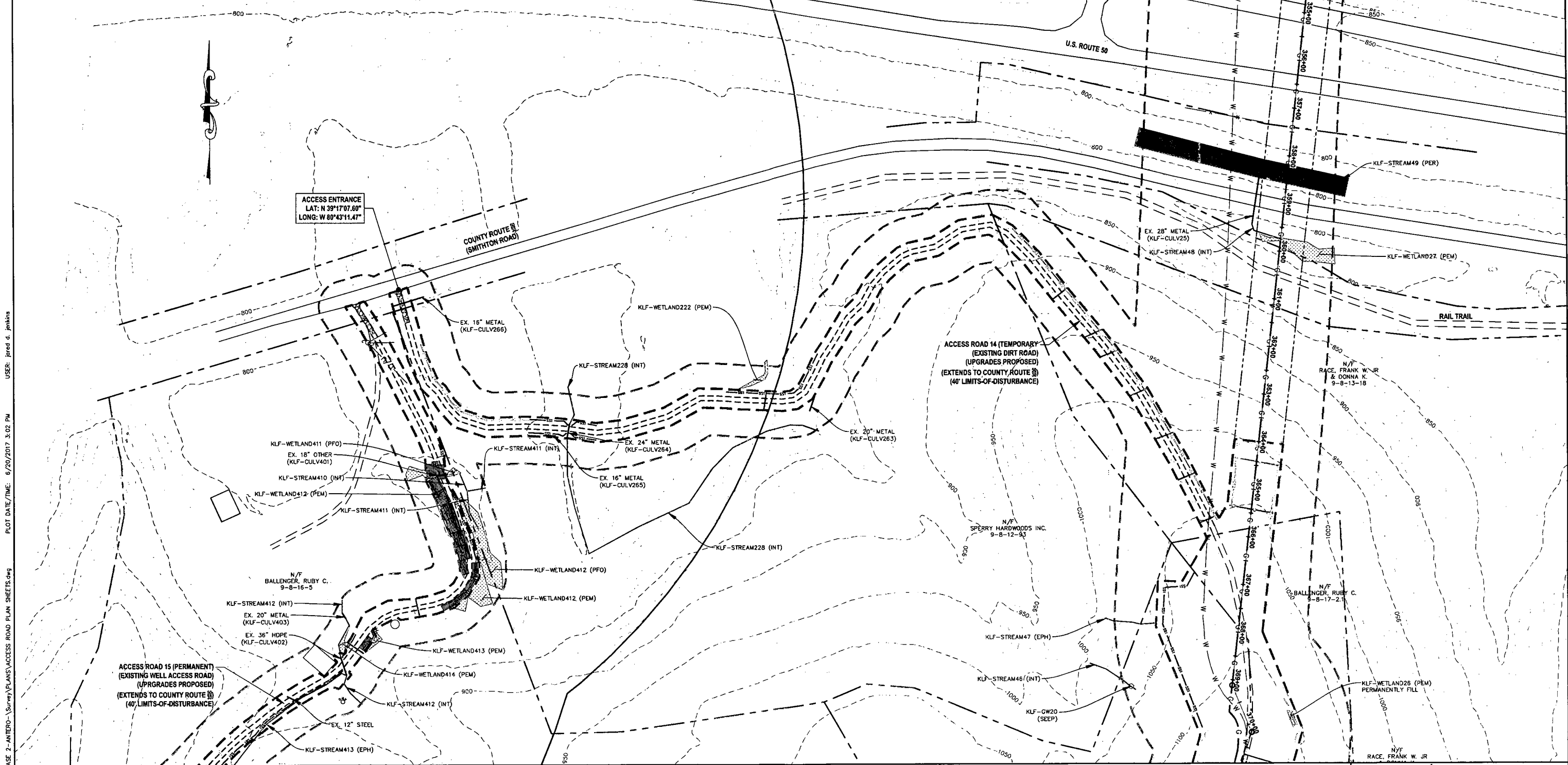
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
 SCALE: AS SHOWN  
 DRAWN BY: JDL, RA (TIG)  
 CHECKED BY: AR, JRI (TIG)

SHEET 33  
 SHT. NAME: 050-6321\STRICKLING\AR7  
 REV. 2

**E&S LEGEND**

- PROJECT AREA-OF-INTEREST
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- PERMANENT WATER BAR (PLAN)
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- TEMPORARY TIMBERMATS (AS NEEDED)
- STONE CONSTRUCTION ENTRANCE



LAYOUT TAB: ARB  
 CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg  
 PLOT DATE/TIME: 6/20/2017 3:02 PM  
 USER: jared d. jenkins

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET  
0 100 200

SUMMARY OF MATERIALS (3D)	
SS1	SILT SAVER BSRF-P1 513 LF
SS2	SILT SAVER BSRF-P2 1,054 LF
WB	PERMANENT WATERBARS 8

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JDL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 JDL

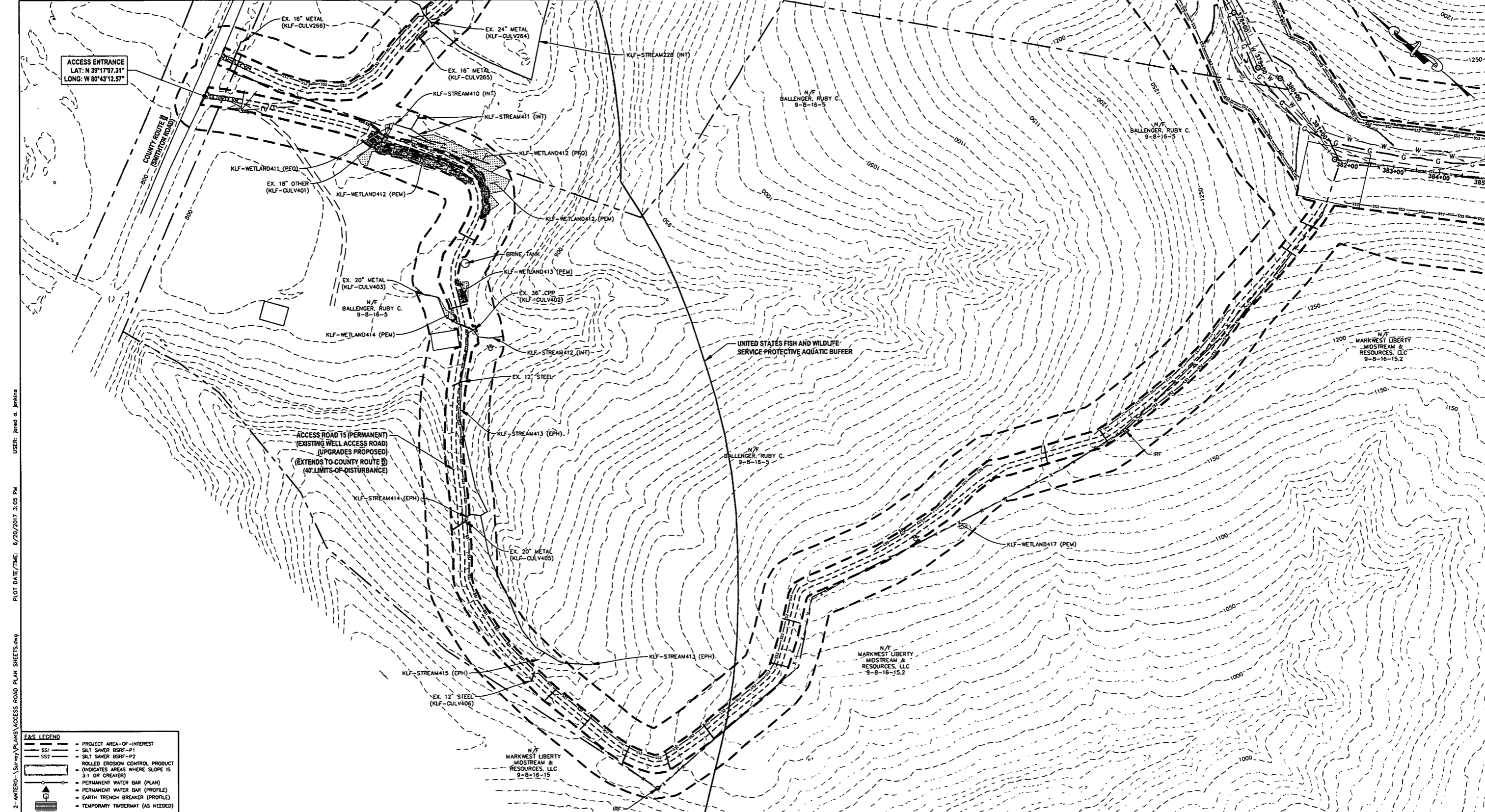
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JDL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JDL

- GENERAL INFORMATION**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
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  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**STRICKLING PIPELINE ACCESS ROAD PLAN SHEET**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924  
 SCALE: AS SHOWN  
 DRAWN BY: JDL, RJA (TIG) SHEET 34  
 CHECKED BY: AR, JPH (TIG)  
 SHT. NAME: 050-6321\STRICKLING\ARB REV. 2



USER: jared d. jenkins  
 PLOT DATE/TIME: 6/20/2017 3:05 PM  
 LAYOUT TAB: AR9  
 CAD FILE: R:\050-6321-WCC HP LOOP PHASE 2-ANTERO-SURVEY PLANS\ACCESS ROAD PLAN SHEETS.dwg

**F&S LEGEND**

	PROJECT AREA-OF-INTEREST
	SILT SAVER BSRF-P1
	SILT SAVER BSRF-P2
	ROLLED EROSION CONTROL PRODUCT
	(INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
	PERMANENT WATER BAR (PLAN)
	PERMANENT WATER BAR (PROFILE)
	EARTH TRENCH BREAKER (PROFILE)
	TEMPORARY TIMBERMAT (AS NEEDED)
	STONE CONSTRUCTION ENTRANCE

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

HORIZ. SCALE IN FEET  
0 100 200

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
SS1	SILT SAVER BSRF-P1	1,236 LF
SS2	SILT SAVER BSRF-P2	1,988 LF
WB	PERMANENT WATERBARS	13

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JJA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 JJA

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JJA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JJA

- GENERAL INFORMATION**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - BASELINE STATION SHOWN PERTAINS TO THE CENTER OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION WITHIN THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RESEARCHED INFORMATION TAKEN FROM VARIOUS RECORDS ON FILE IN THE LOCAL COUNTY COURTHOUSE. TO OBTAIN A MORE ACCURATE BOUNDARY LINE LOCATION, A FULL PROPERTY SURVEY IS RECOMMENDED.
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  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

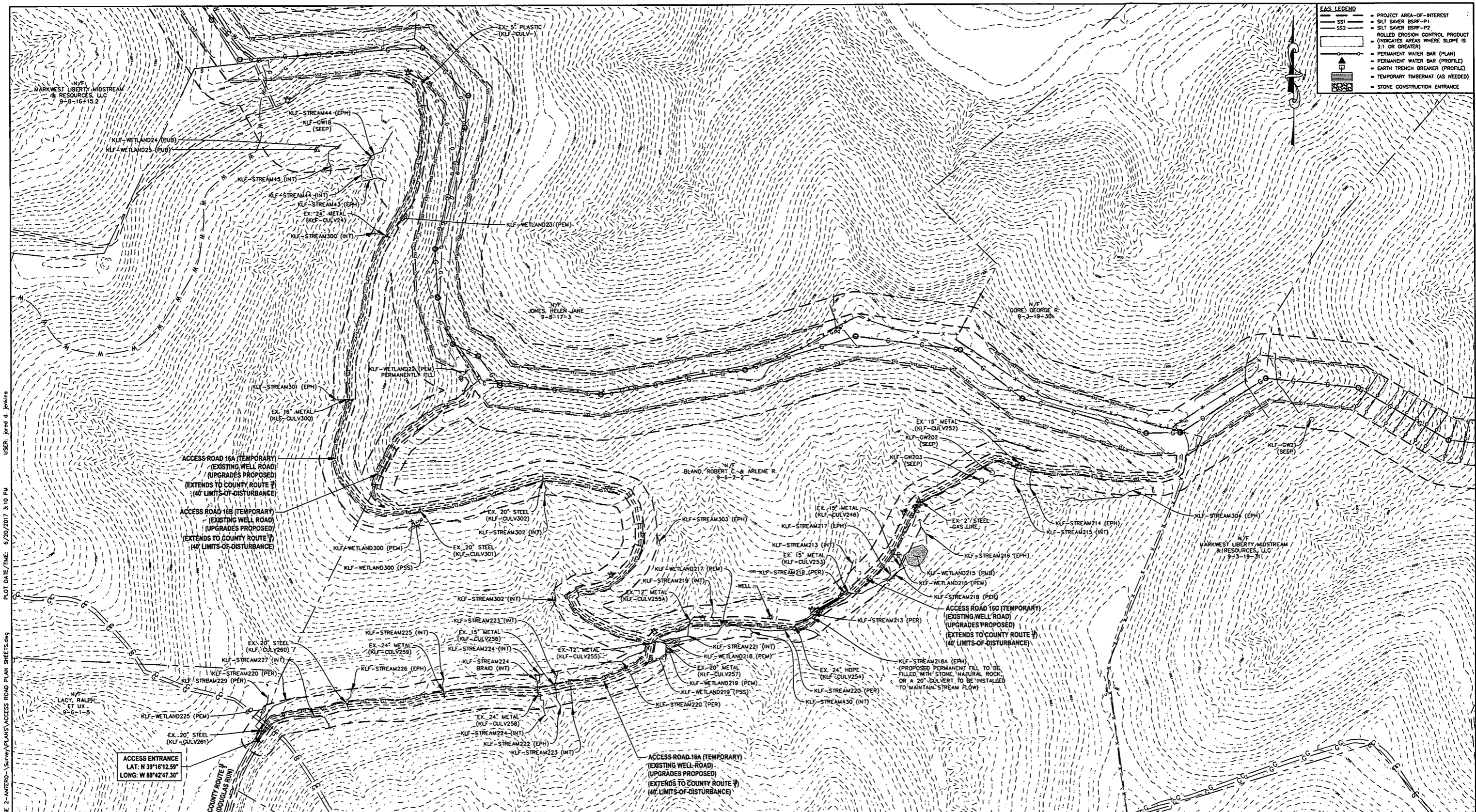
**STRICKLING PIPELINE**  
**ACCESS ROAD PLAN SHEET**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924  
SCALE: AS SHOWN  
DRAWN BY: JJA, R.A. (TIG)  
CHECKED: AR, JJA (TIG)

SHEET 35

SHT. NAME: 050-6321\STRICKLING\AR9 REV. 2



**EAS LEGEND**

[Symbol]	PROJECT AREA-OF-INTEREST
[Symbol]	SILT SAVER BSRF-P1
[Symbol]	SILT SAVER BSRF-P2
[Symbol]	ROLLED EROSION CONTROL PRODUCT
[Symbol]	(INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
[Symbol]	PERMANENT WATER BAR (PLAN)
[Symbol]	PERMANENT WATER BAR (PROFILE)
[Symbol]	EARTH TRENCH BREAKER (PROFILE)
[Symbol]	TEMPORARY TIMBERMAT (AS NEEDED)
[Symbol]	STONE CONSTRUCTION ENTRANCE

USER: jared d. jenkins  
 PLOT DATE/TIME: 6/20/2017 3:10 PM  
 CADD FILE: R:\050-6321-1-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg  
 LAYOUT TAB: AR10  
 CAD FILE: R:\050-6321-1-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET  
0 200 400

**ANTERO**

REVISION

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JLA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	RA

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
SS1	SILT SAVER BSRF-P1	3,965 LF
SS2	SILT SAVER BSRF-P2	5,253 LF
WB	PERMANENT WATERBARS	9

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY	
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JLA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	RA

- GENERAL INFORMATION**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
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  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE**  
ACCESS ROAD PLAN SHEET

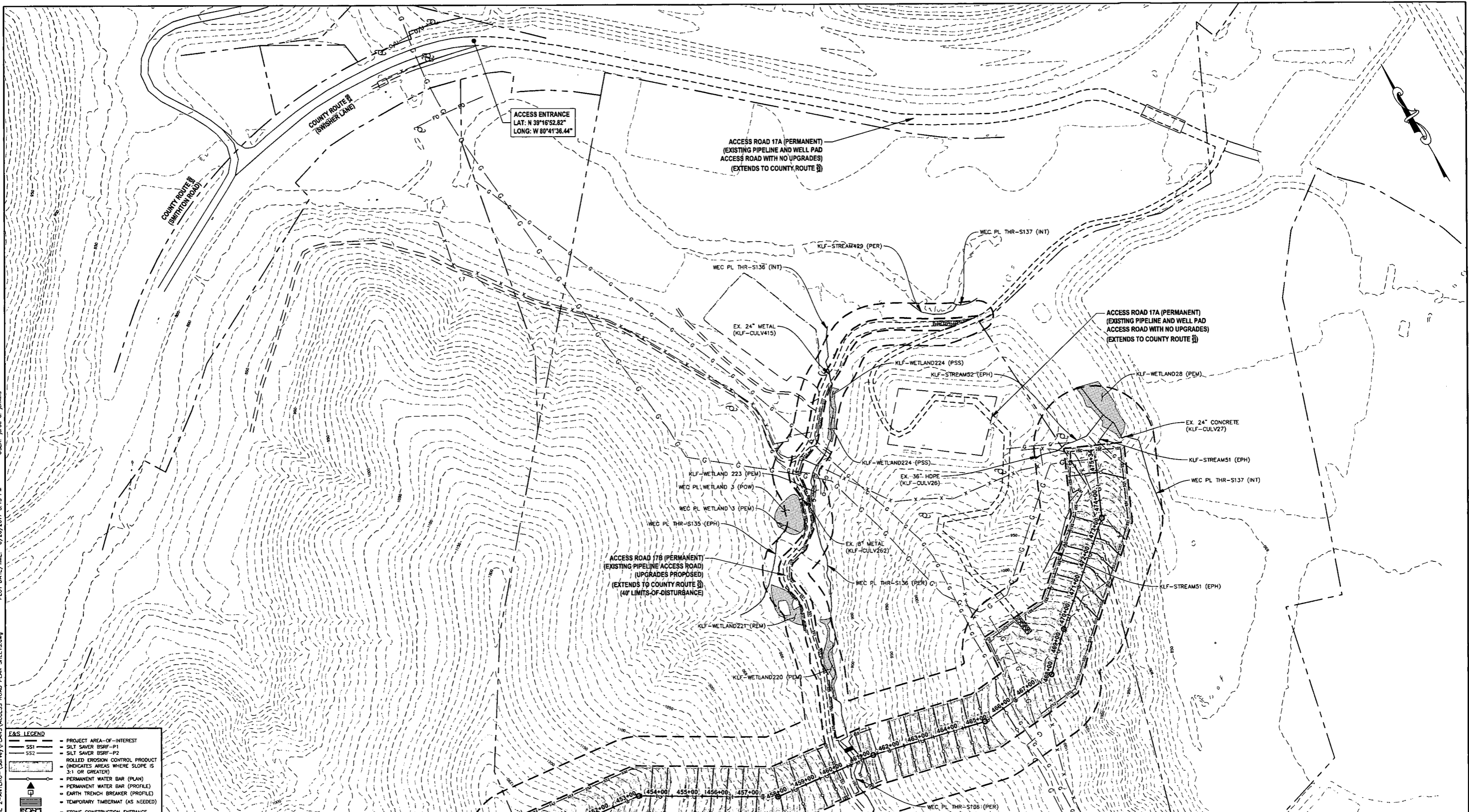
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDLETS RUN, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JLA, RA (TIG)  
CHECKED: AR, JPH (TIG)

SHEET 36  
SHT. NAME: 050-6321\STRICKLING\AR10  
REV. 2



LAYOUT TAB: AR11  
 CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ACCESS ROAD PLAN SHEETS.dwg  
 USER: jared d. jenkins  
 PLOT DATE/TIME: 6/20/2017 3:13 PM



**E&S LEGEND**

	PROJECT AREA OF INTEREST
	SILT SAVER BSRF-P1
	SILT SAVER BSRF-P2
	ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
	PERMANENT WATER BAR (PLAN)
	PERMANENT WATER BAR (PROFILE)
	EARTH TRENCH BREAKER (PROFILE)
	TEMPORARY TIMBERMAT (AS NEEDED)
	STONE CONSTRUCTION ENTRANCE

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

HORIZ. SCALE IN FEET  
0 150 300

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	SS1 SILT SAVER BSRF-P1	1,562 LF

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17 JDA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 JDA

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JDA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JDA

- GENERAL INFORMATION**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT. VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT.
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  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

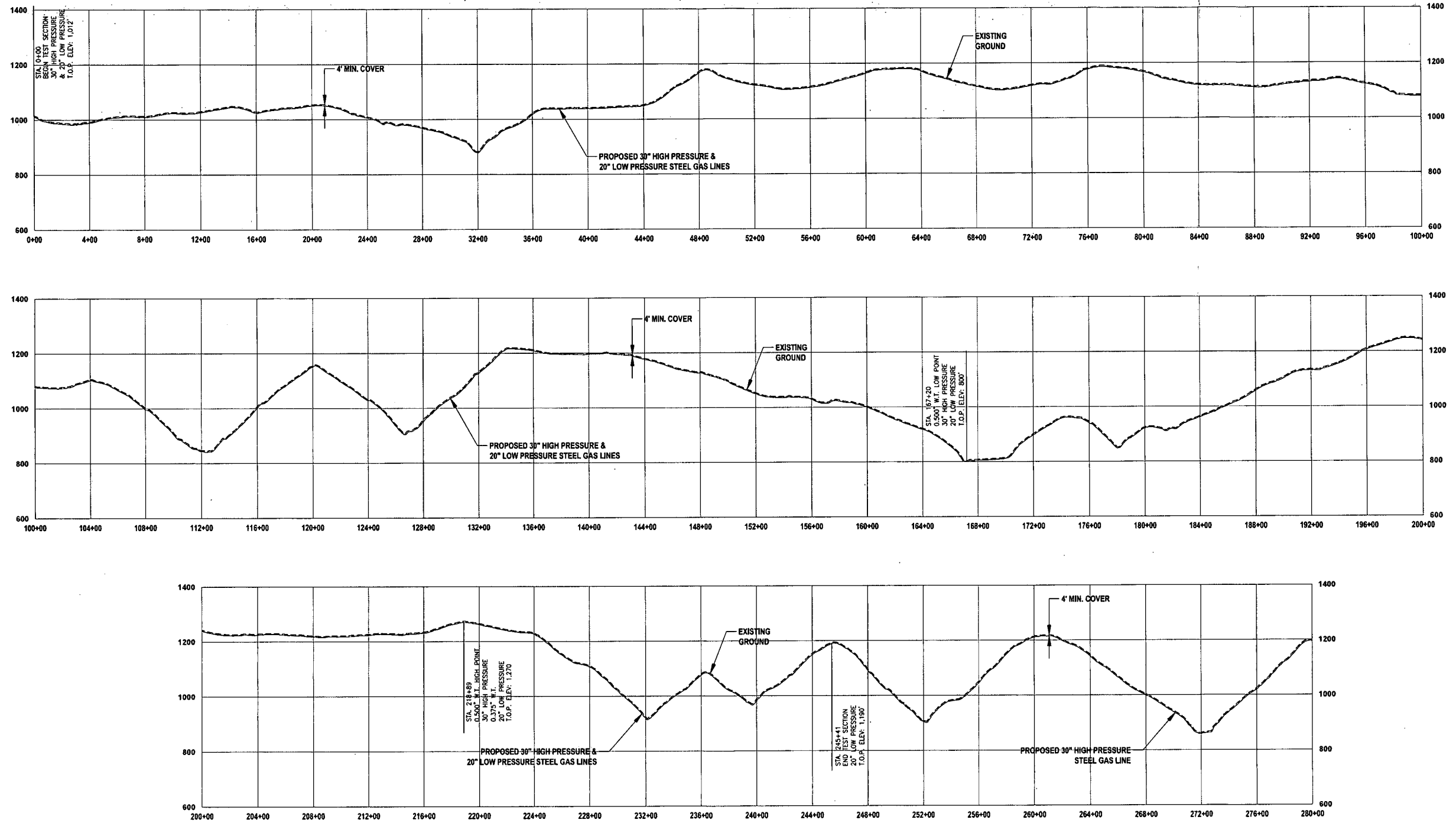
**STRICKLING PIPELINE**  
**ACCESS ROAD PLAN SHEET**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RJA (TIG)  
CHECKED: AR, JRN (TIG)

SHEET 37  
SHT. NAME: 050-6321\STRICKLING\AR11  
REV. 2

LAYOUT TAB: HTP1  
 CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-SURVEY\PLANS\HYDROSTATIC TEST SHEET.dwg  
 PLOT DATE/TIME: 6/20/2017 3:05 PM  
 USER: robert.j.luczko



**THRASHER**

0 400 800  
 HORIZ. SCALE IN FEET

0 200 400  
 VERT. SCALE IN FEET

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JUL RA
2	REVISED PER COMMENTS FROM KLENFELDER, INC.	06/20/17	JUL RA

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig  
 PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
  - REFER TO ANTERO MIDSTREAM PRESSURE TESTING PROCEDURE.
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
 HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
 VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

**Antero**  
 Midstream Partners LP

**STRICKLING PIPELINE**  
 HYDROSTATIC TEST PROFILE

PROPOSED 30" HIGH PRESSURE STEEL GAS  
 LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 SHEET NO.: A05924

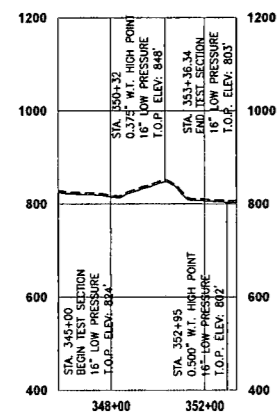
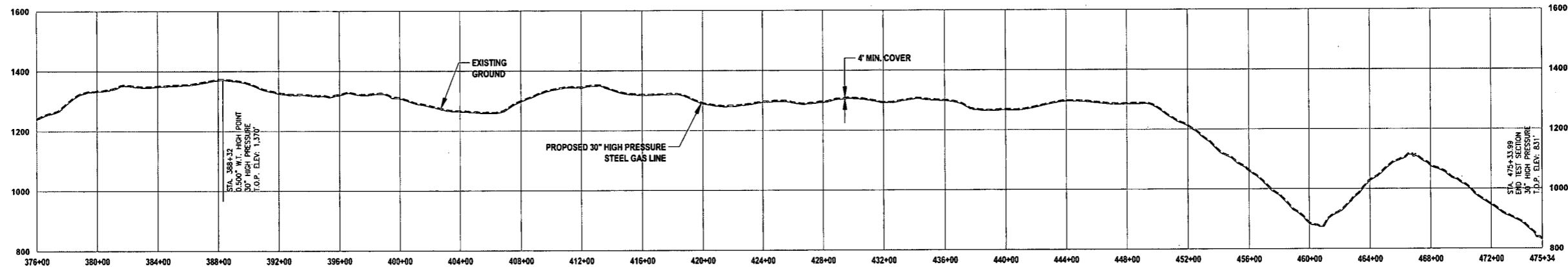
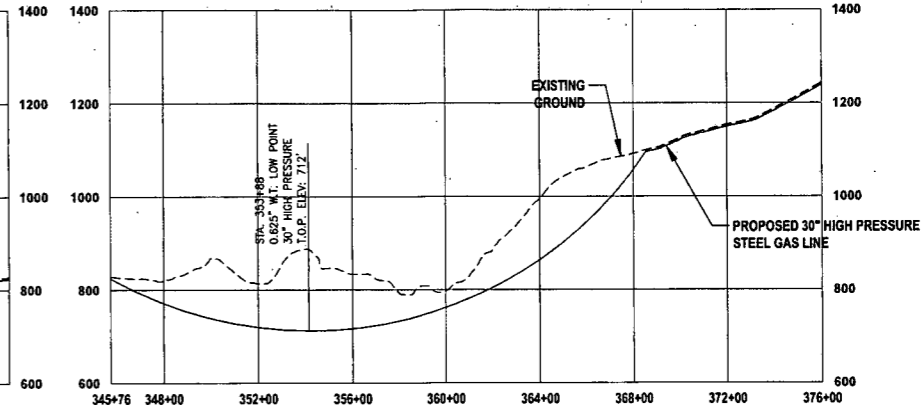
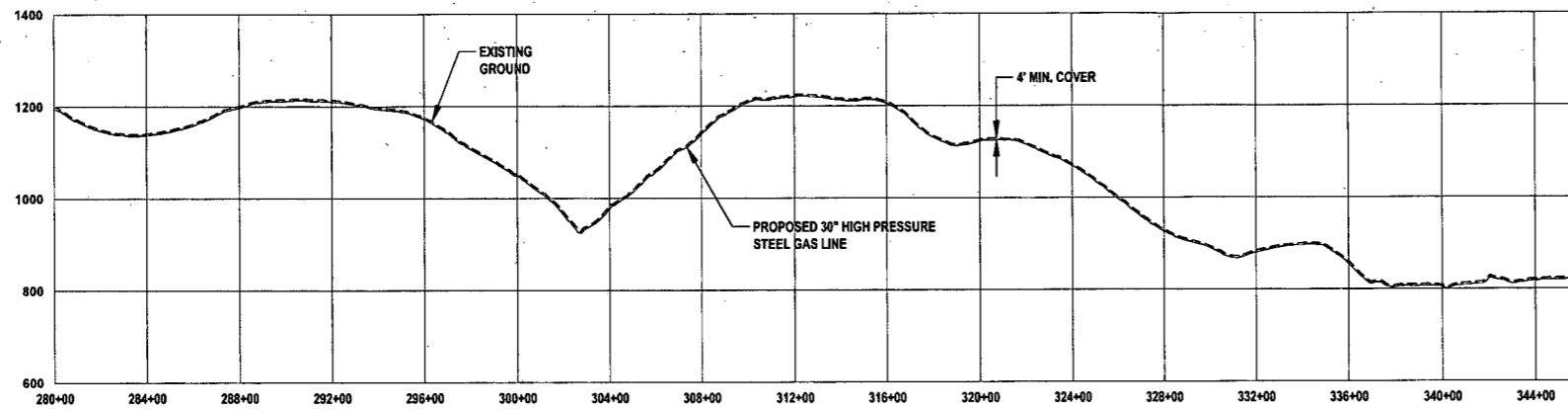
SCALE: AS SHOWN

DRAWN BY: JUA RA (TJD) SHEET 38

CHECKED: AR, JRH (TIS)

SHT. NAME: 050-6321\STRICKLING\HTP1 REV. 2

LAYOUT TAB: HTP2  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\HYDROSTATIC TEST SHEET.dwg  
 USER: robert.j.luczko  
 PLOT DATE/TIME: 6/20/2017 3:05 PM



HYDROSTATIC TEST (16" LOW PRESSURE)		
	Station	Elevation (ft msl)
Start Point	345+00	824
Low Point (0.500 wt X-52)	352+95	802
High Point (0.375 wt X-52)	350+32	848
End Point	353+36.34	803
Differential (0.375 wt X-52)		46
Static Head Pressure @ 802' (0.500 wt X-52) PSI		19,9318

HYDROSTATIC TEST (20" LOW PRESSURE)		
	Station	Elevation (ft msl)
Start Point	0+00	1,012
Low Point (0.500 wt X-60)	167+20	800
High Point (0.375 wt X-60)	218+89	1,270
End Point	245+41	1,190
Differential (0.375 wt X-60)		470
Static Head Pressure @ 800' (0.500 wt X-60) PSI		203,651

HYDROSTATIC TEST (30" LOW PRESSURE)		
	Station	Elevation (ft msl)
Start Point	0+00	1,012
Low Point (0.625 wt X-70)	353+88	712
High Point (0.500 wt X-70)	388+32	1,370
End Point	475+33.99	831
Differential (0.500 wt X-70)		658
Static Head Pressure @ 712' (0.500 wt X-70) PSI		285,1114

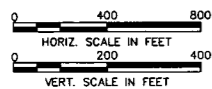
**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924



**SUMMARY OF MATERIALS (3D)**

**SUMMARY OF MATERIALS (3D)**

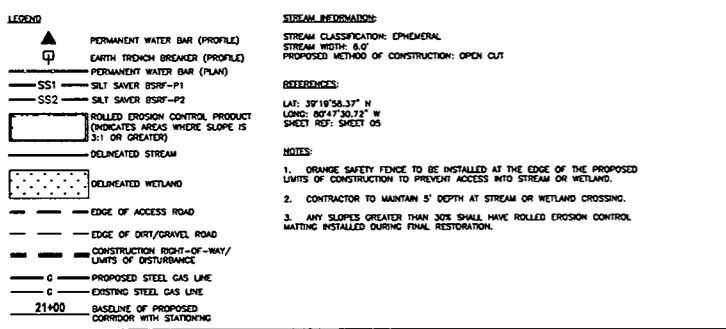
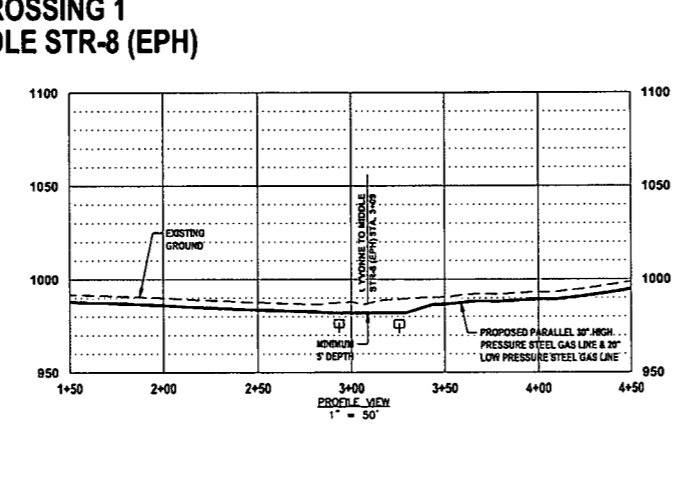
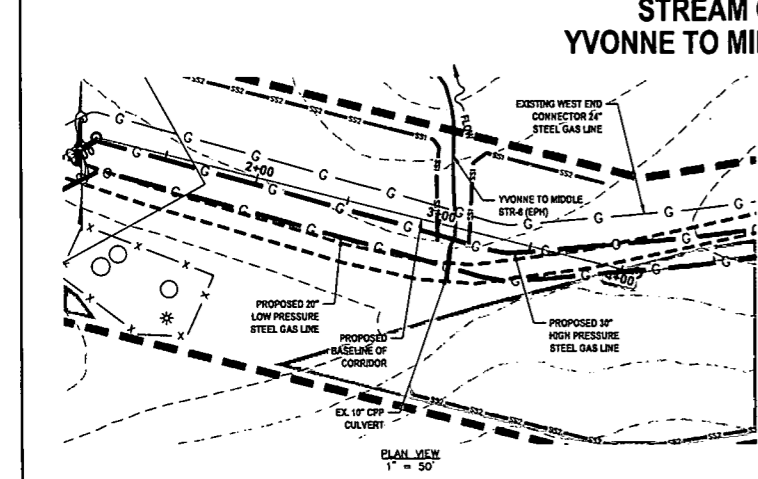
**GENERAL INFORMATION**

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	DATE	BY
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2	REVISED PER COMMENTS FROM KLEINFELDER, INC.		06/20/17	JL		

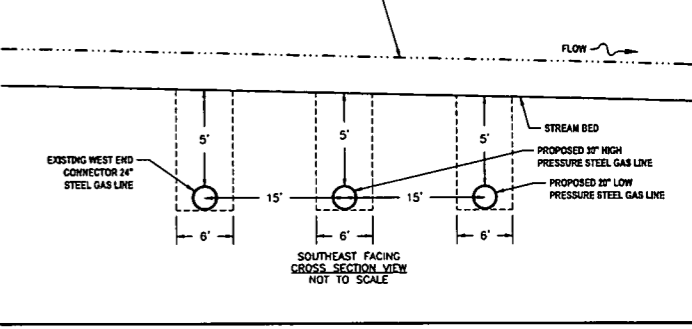
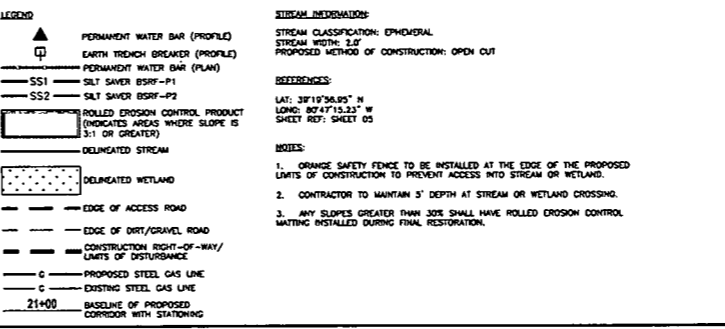
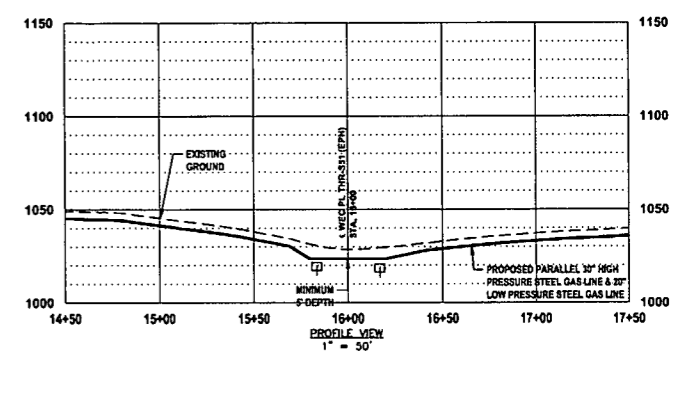
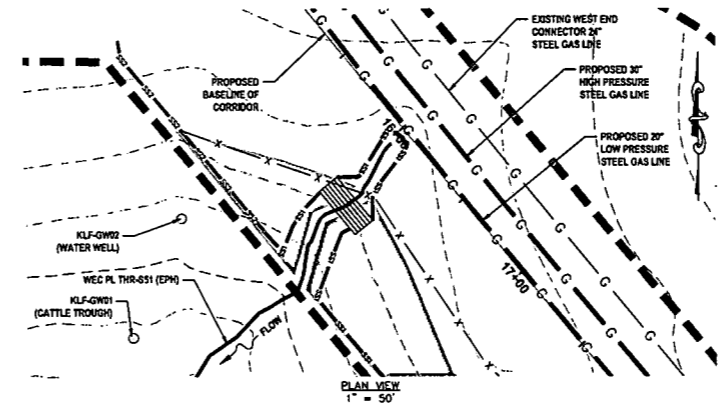
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- REFER TO ANTERO MIDSTREAM PRESSURE TESTING PROCEDURE.
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
 HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
 VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

**Antero**  
 Midstream Partners LP  
**STRICKLING PIPELINE**  
**HYDROSTATIC TEST PROFILE**  
 PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

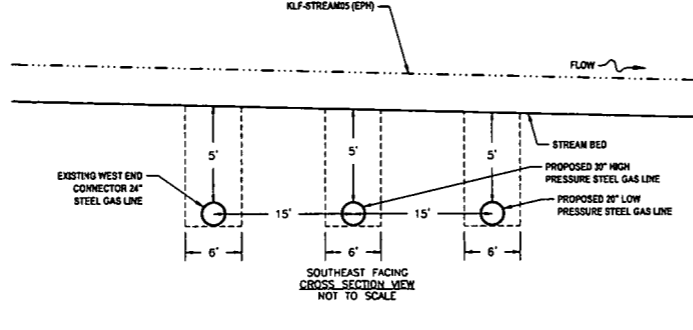
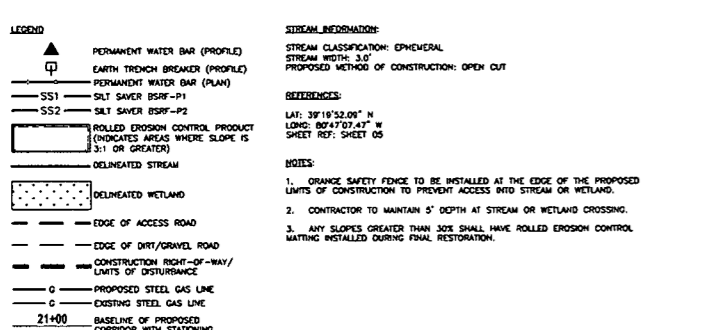
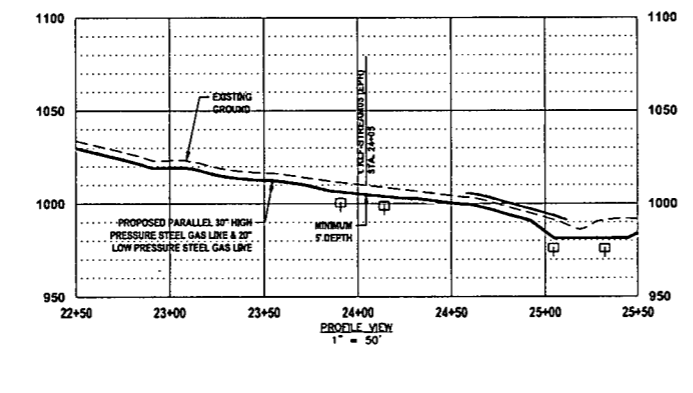
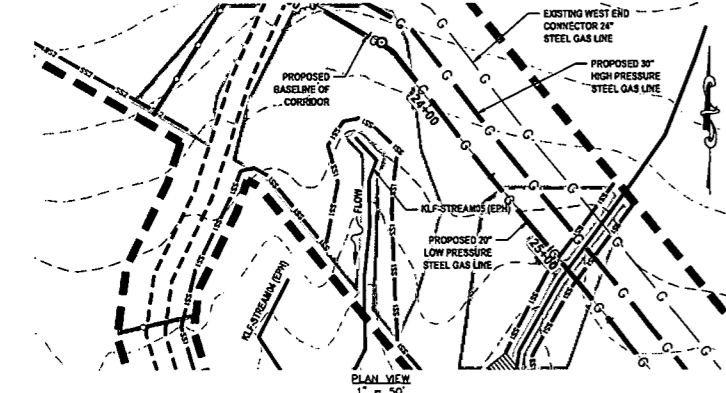
DATE: 6/20/2017  
 SCALE: AS SHOWN  
 DRAWN BY: J.L. R.A. (TID)  
 CHECKED BY: A.R. JRI (TID)  
 SHEET 39  
 SHT. NAME: 050-6321\STRICKLING\HTP2  
 REV. 2



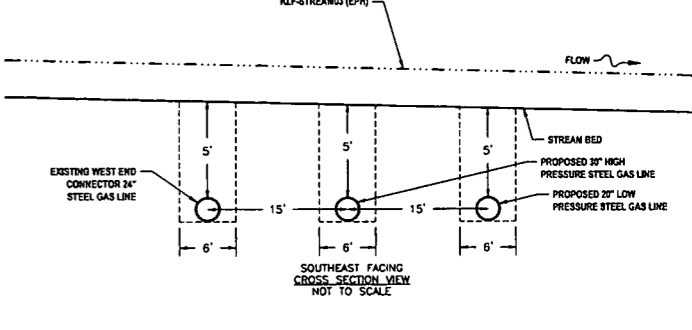
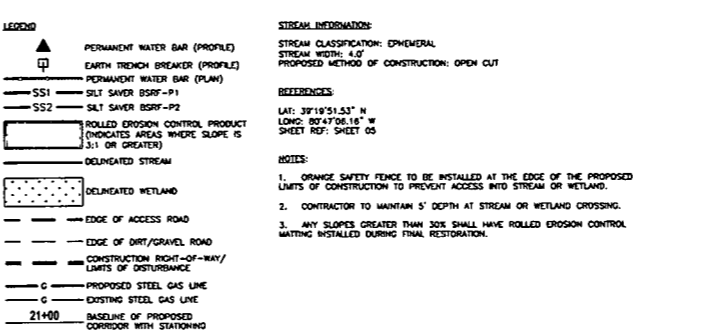
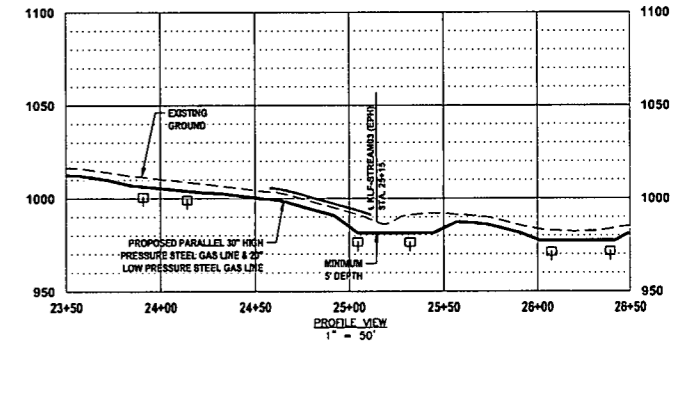
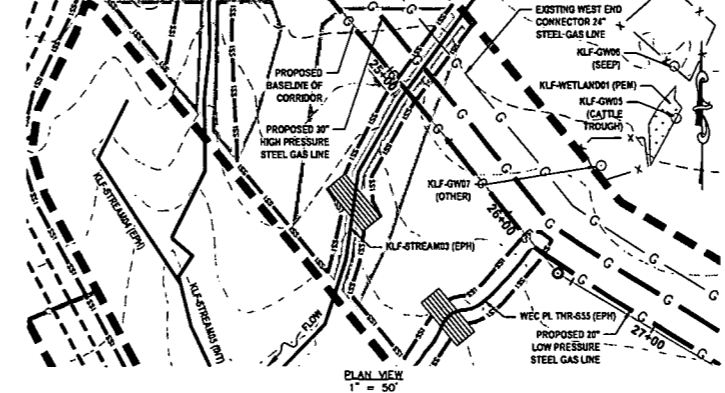
### STREAM CROSSING 2 WEC PL THR-S51 (EPH)



### STREAM CROSSING 3 KLF-STREAM05 (EPH)



### STREAM CROSSING 4 KLF-STREAM03 (EPH)



DATE: 06/07/2017  
AFE # A05924

#### SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

#### SUMMARY OF MATERIALS (3D)

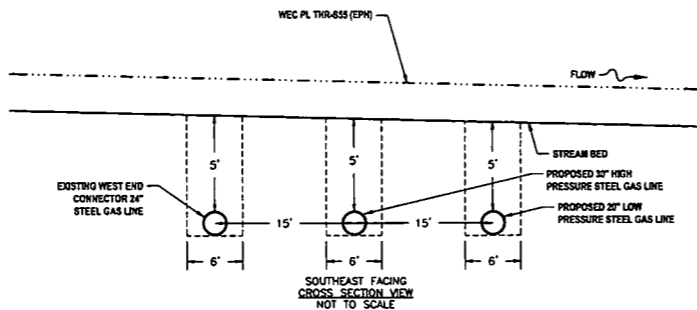
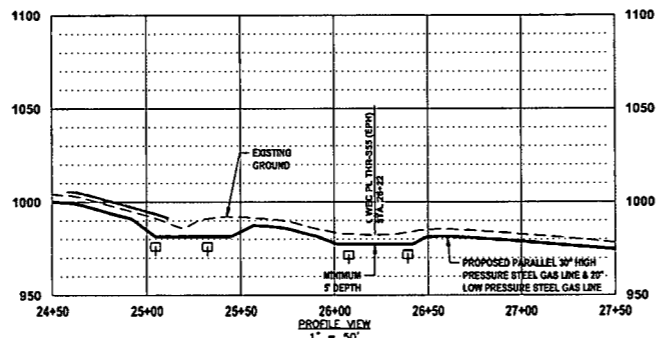
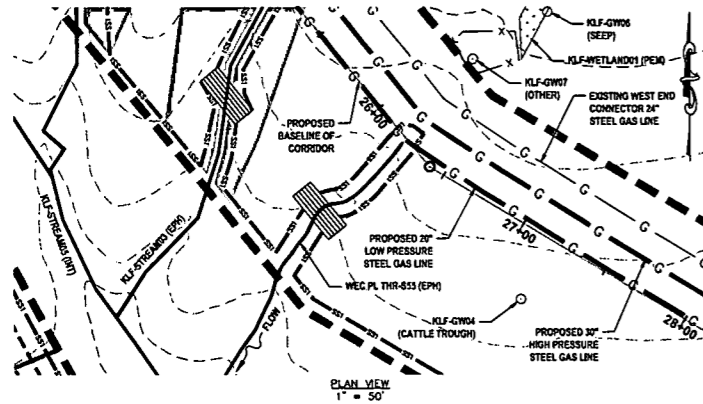
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	AS
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	AS

#### GENERAL INFORMATION

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

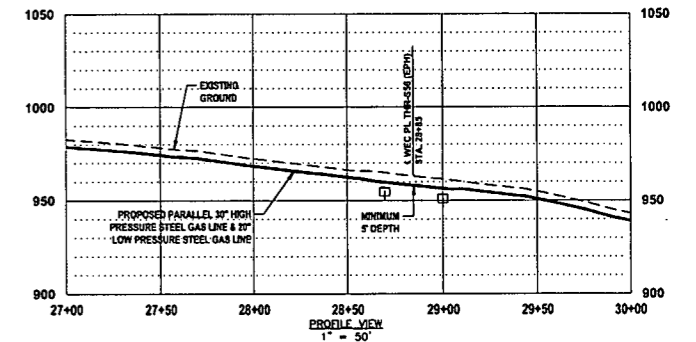
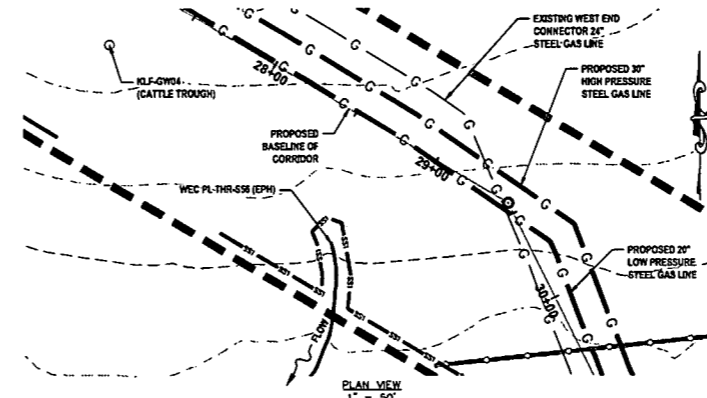
LAYOUT TAB: S&WC1 CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg PLOT DATE/TIME: 6/20/2017 1:27 PM USER: robert.j.luczko

### STREAM CROSSING 5 WEC PL THR-S55 (EPH)

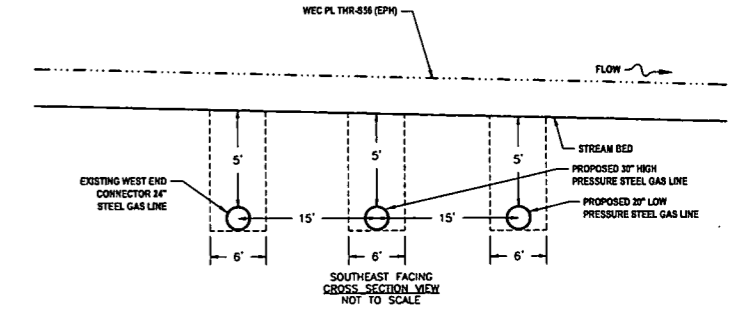


- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - SS1 SALT SAVER BSRF-P1
  - SS2 SALT SAVER BSRF-P2
  - ▭ ROLLED EROSION CONTROL PRODUCT
  - ▨ DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - C PROPOSED STEEL GAS LINE
  - O EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**
- STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.3'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**
- LAT: 39°19'50.88" N  
LONG: 80°47'05.53" W  
SHEET REF: SHEET 05
- NOTES:**
- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
  - CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
  - ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

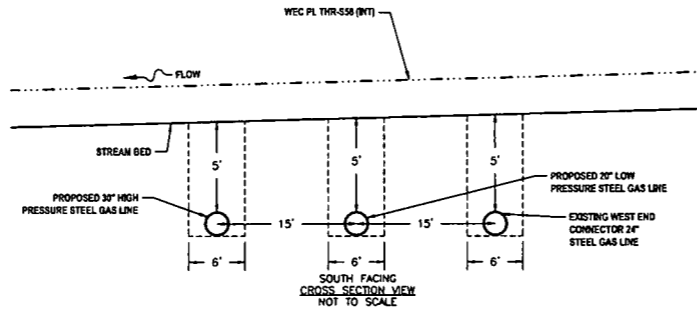
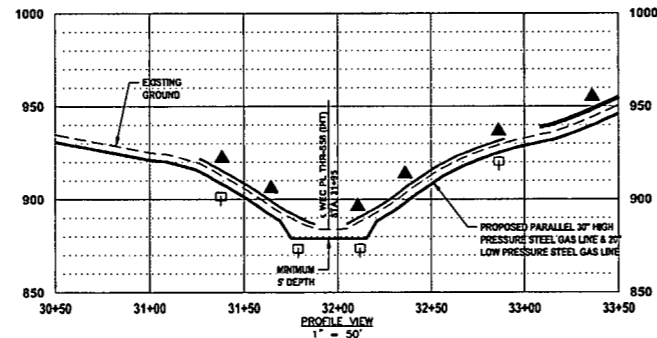
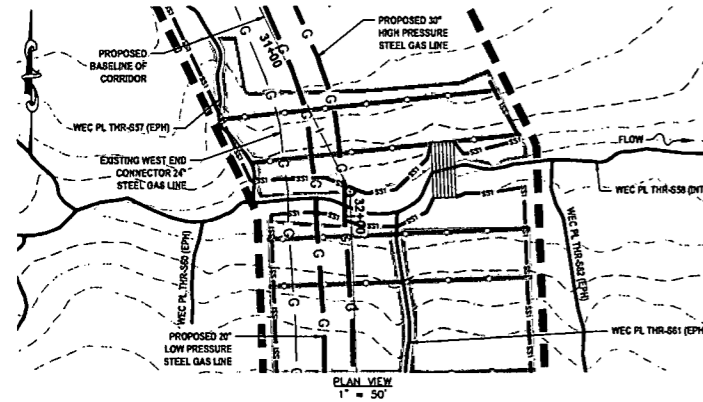
### STREAM CROSSING 6 WEC PL THR-S56 (EPH)



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - SS1 SALT SAVER BSRF-P1
  - SS2 SALT SAVER BSRF-P2
  - ▭ ROLLED EROSION CONTROL PRODUCT
  - ▨ DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - C PROPOSED STEEL GAS LINE
  - O EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**
- STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**
- LAT: 39°19'48.84" N  
LONG: 80°47'43.07" W  
SHEET REF: SHEET 06
- NOTES:**
- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
  - CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
  - ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

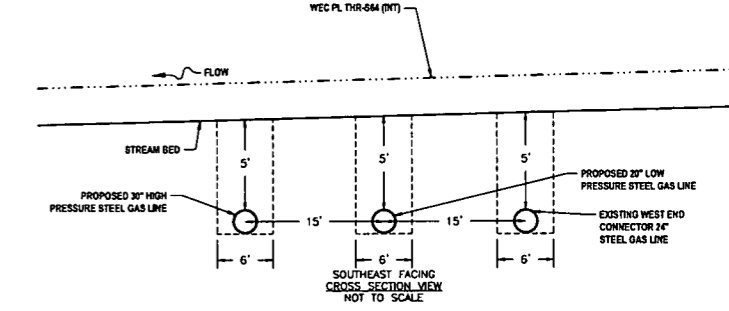
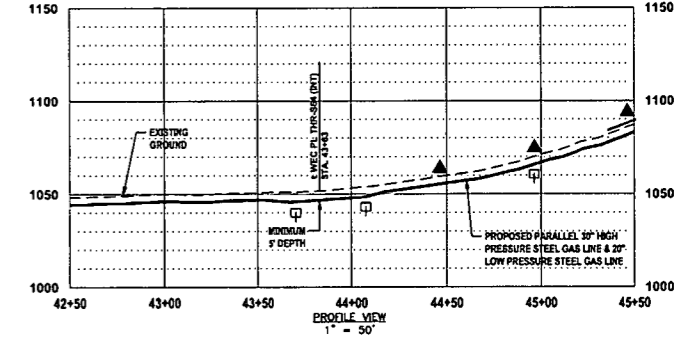
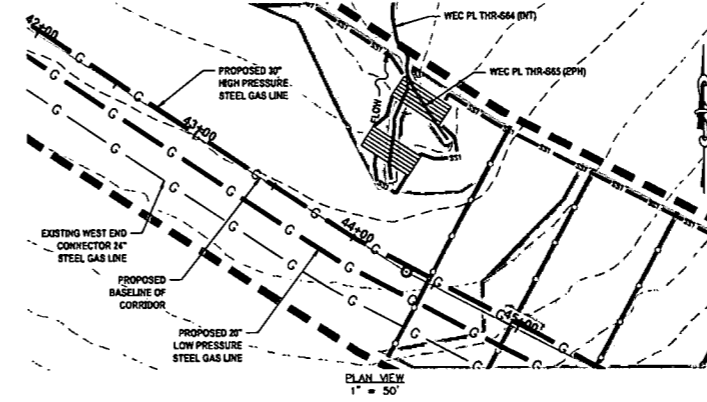


### STREAM CROSSING 7 WEC PL THR-S58 (INT)



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - SS1 SALT SAVER BSRF-P1
  - SS2 SALT SAVER BSRF-P2
  - ▭ ROLLED EROSION CONTROL PRODUCT
  - ▨ DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - C PROPOSED STEEL GAS LINE
  - O EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**
- STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 13.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**
- LAT: 39°19'46.83" N  
LONG: 80°47'59.41" W  
SHEET REF: SHEET 08
- NOTES:**
- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
  - CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
  - ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

### STREAM CROSSING 8 WEC PL THR-S64 (INT)



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - SS1 SALT SAVER BSRF-P1
  - SS2 SALT SAVER BSRF-P2
  - ▭ ROLLED EROSION CONTROL PRODUCT
  - ▨ DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - C PROPOSED STEEL GAS LINE
  - O EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**
- STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 4.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**
- LAT: 39°19'37.74" N  
LONG: 80°46'53.37" W  
SHEET REF: SHEET 06
- NOTES:**
- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
  - CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
  - ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero Midstream Partners LP**

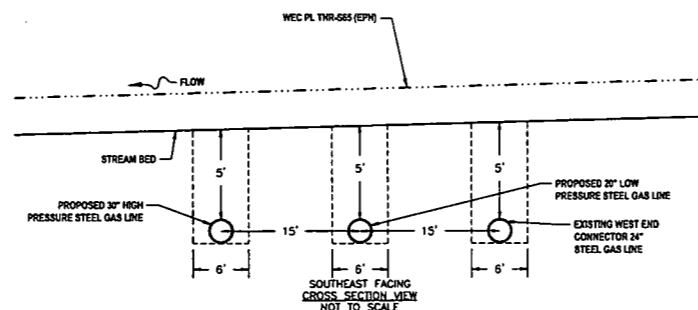
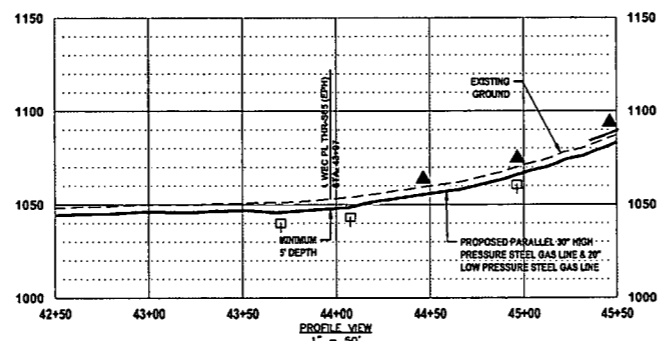
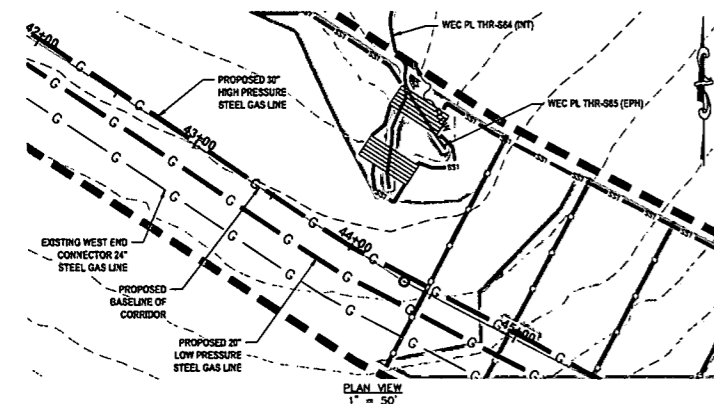
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/7/2017 TIME: 1:32 PM SHEET: A05924  
SCALE: AS SHOWN  
DRAWN BY: JDA, RJA (TIG)  
CHECKED BY: AR, JPI (TIG)

SHEET 41  
SHT. NAME: 050-6321\STRICKLING\S&WC2 REV. 2

### STREAM CROSSING 9 WEC PL THR-S65 (EPH)



**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRV-P1
- SS2 SALT SAVER BSRV-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELAMINATED STREAM
- DELAMINATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- C PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**

STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 2.0'  
 PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

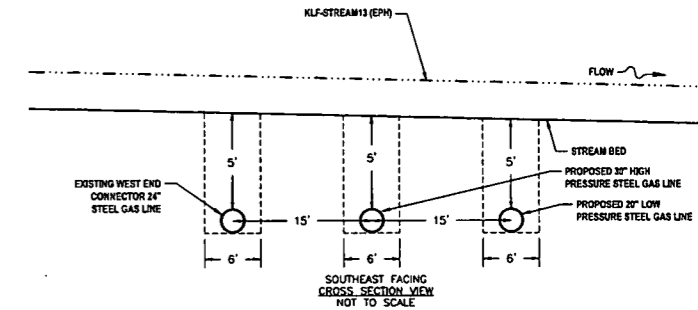
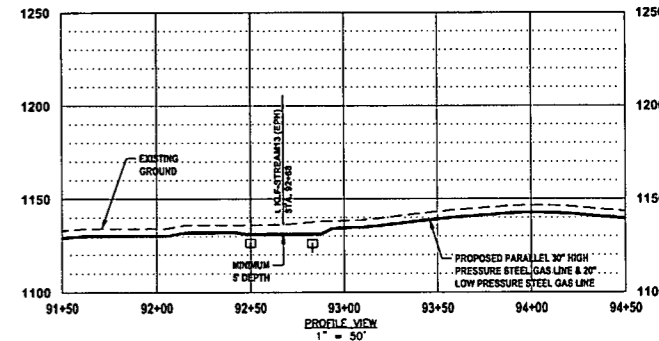
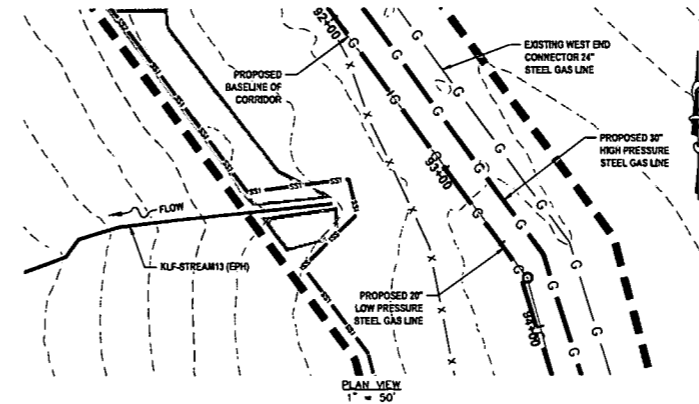
**REFERENCES:**

LAT: 39°18'37.86" N  
 LONG: 80°45'52.96" W  
 SHEET REF: SHEET 06

**NOTES:**

- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
- CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
- ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

### STREAM CROSSING 10 KLF-STREAM13 (EPH)



**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRV-P1
- SS2 SALT SAVER BSRV-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELAMINATED STREAM
- DELAMINATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- C PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**

STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 3.0'  
 PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

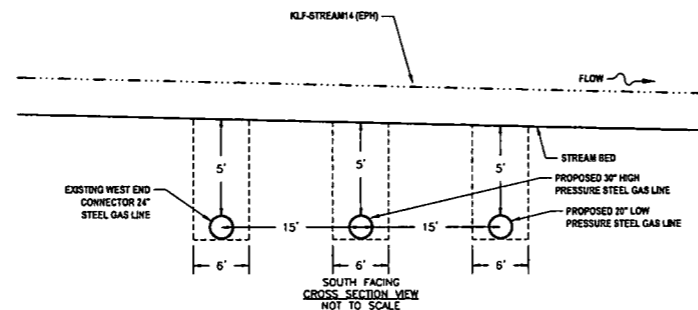
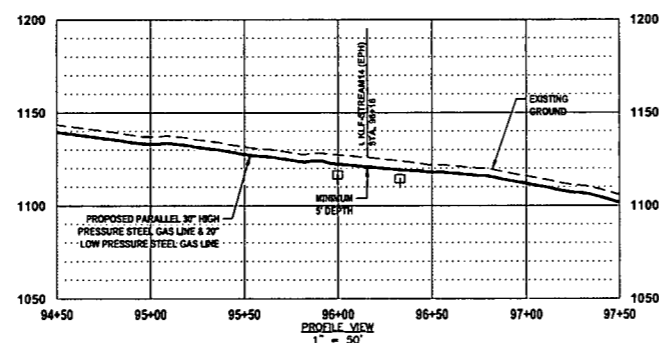
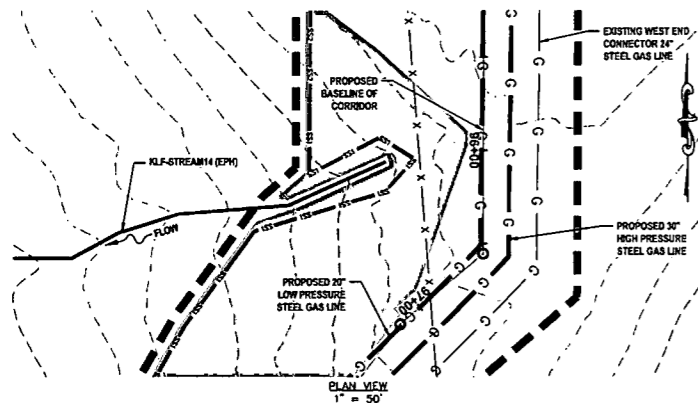
**REFERENCES:**

LAT: 39°19'08.10" N  
 LONG: 80°41'13.17" W  
 SHEET REF: SHEET 06

**NOTES:**

- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
- CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
- ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

### STREAM CROSSING 11 KLF-STREAM14 (EPH)



**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRV-P1
- SS2 SALT SAVER BSRV-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELAMINATED STREAM
- DELAMINATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- C PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**

STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 3.0'  
 PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

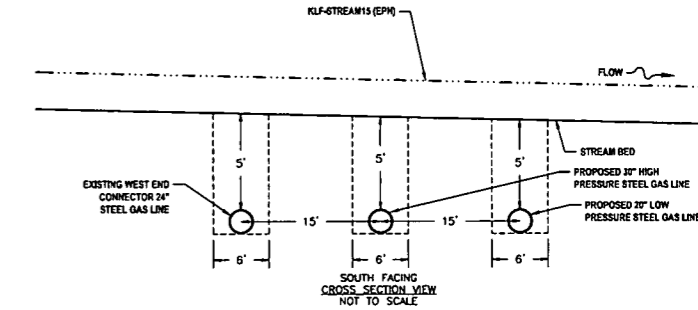
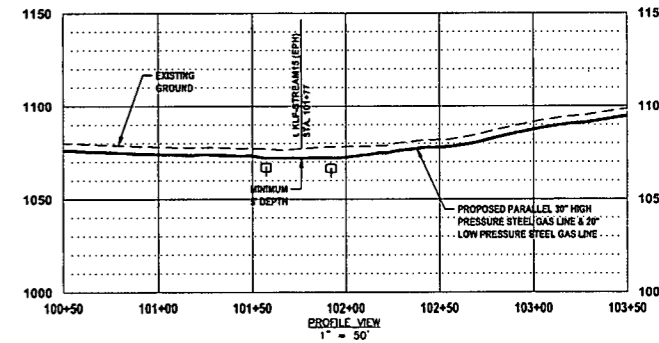
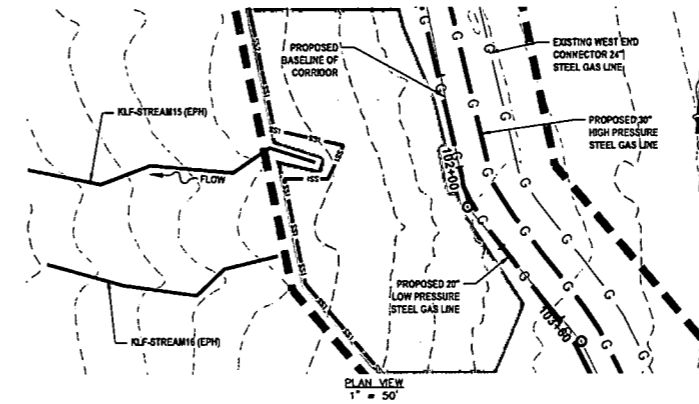
**REFERENCES:**

LAT: 39°19'05.43" N  
 LONG: 80°41'13.33" W  
 SHEET REF: SHEET 06

**NOTES:**

- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
- CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
- ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

### STREAM CROSSING 12 KLF-STREAM15 (EPH)



**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRV-P1
- SS2 SALT SAVER BSRV-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELAMINATED STREAM
- DELAMINATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- C PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**

STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 3.0'  
 PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**

LAT: 39°19'00.03" N  
 LONG: 80°41'13.33" W  
 SHEET REF: SHEET 09

**NOTES:**

- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
- CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
- ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

LAYOUT TAB: S&WC3  
 CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS I.dwg  
 PLOT DATE/TIME: 6/20/2017 1:36 PM  
 USER: robert.j.luckzo

**THRASHER**

**IFP**  
 ISSUED FOR PERMITTING

DATE: 06/07/2017  
 AFE # A05924

DATE: 06/07/2017  
 AFE # A05924

#### SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

#### SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

#### GENERAL INFORMATION

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig.
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
 HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
 VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
**Midstream Partners LP**

**STRICKLING PIPELINE  
 STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIEGER COUNTY, WEST VIRGINIA

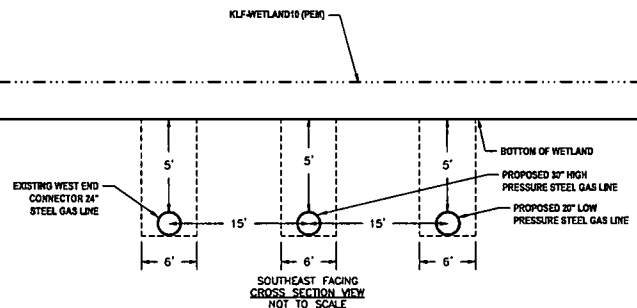
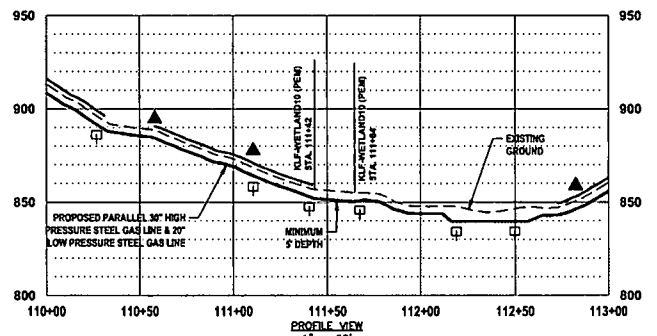
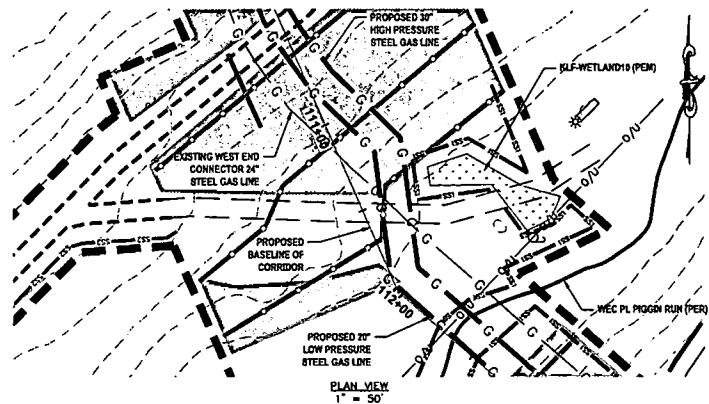
DATE: 6/20/2017 AFE No: A05924  
 SCALE: AS SHOWN  
 DRAWN BY: JRL, RAL (TRC) SHEET 42  
 CHECKED: AR, JHM (TRC)  
 SHT. NAME: 050-6321\STRICKLING\S&WC3 [REV. 2]

NO.	DESCRIPTION	QTY

NO.	DESCRIPTION	QTY

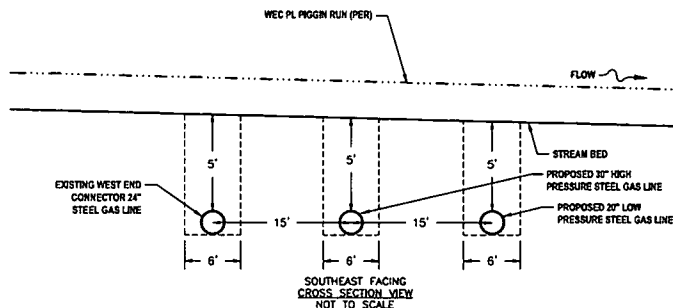
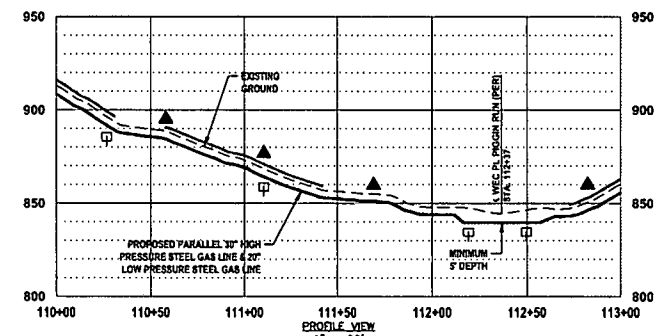
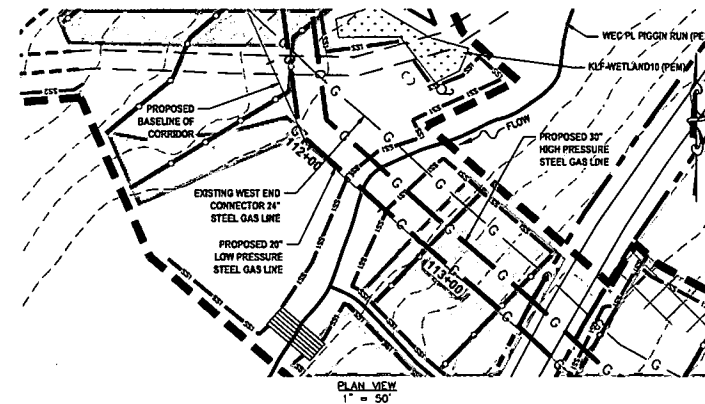
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JRL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JRL

**WETLAND CROSSING 1  
KLF-WETLAND10 (PEM)**



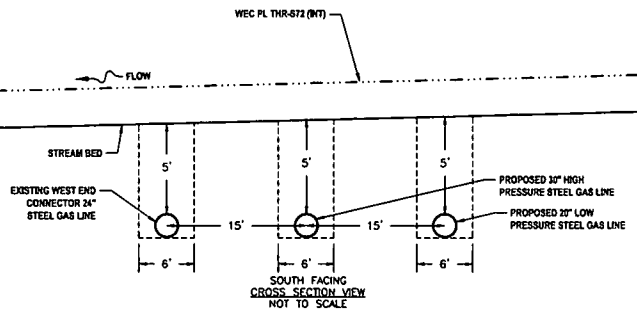
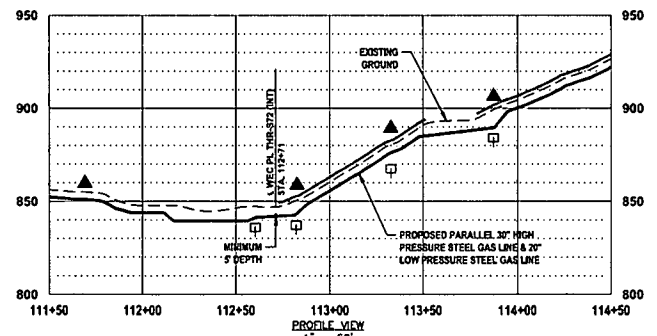
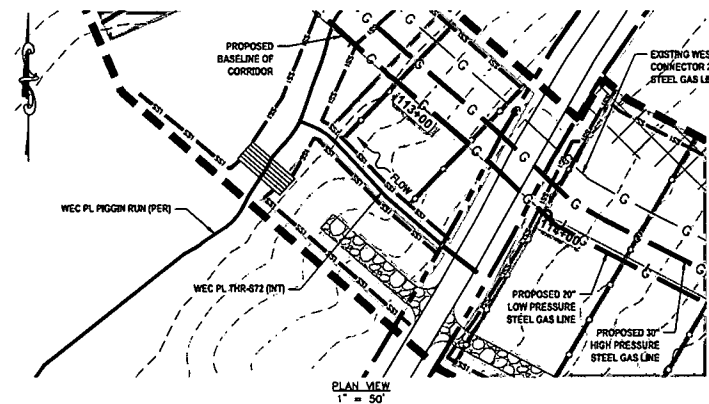
- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- WETLAND INFORMATION:**
- WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
WETLAND WIDTH: 22.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- COORDINATES:**
- LAT: 39°18'31.03" N  
LONG: 80°48'06.10" W  
SHEET REF: SHEET 09
- NOTES:**
- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
  - CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
  - ANY SLOPES GREATER THAN 3:08 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 13  
WEC PL PIGGIN RUN (PER)**



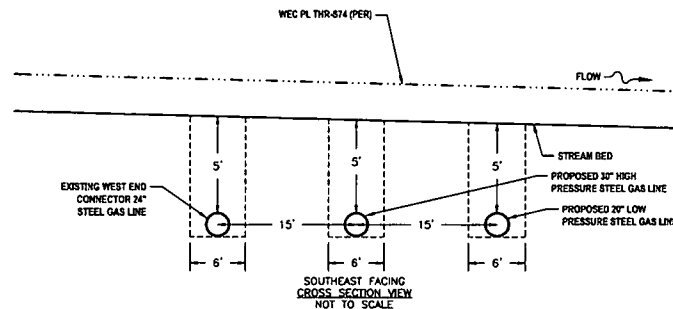
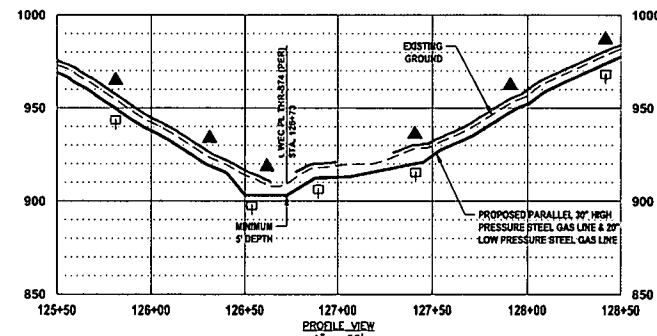
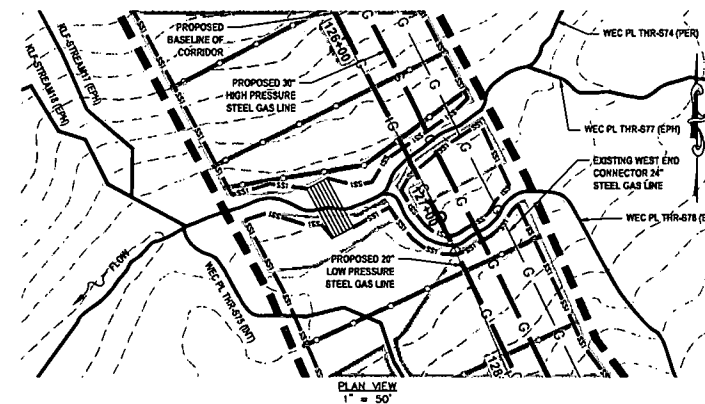
- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**
- STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 15.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- COORDINATES:**
- LAT: 39°18'31.05" N  
LONG: 80°48'06.10" W  
SHEET REF: SHEET 09
- NOTES:**
- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
  - CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
  - ANY SLOPES GREATER THAN 3:08 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 14  
WEC PL THR-S72 (INT)**



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**
- STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 5.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- COORDINATES:**
- LAT: 39°18'30.47" N  
LONG: 80°48'04.17" W  
SHEET REF: SHEET 09
- NOTES:**
- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
  - CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
  - ANY SLOPES GREATER THAN 3:08 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 15  
WEC PL THR-S74 (PER)**



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**
- STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 10.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- COORDINATES:**
- LAT: 39°18'41.85" N  
LONG: 80°47'53.80" W  
SHEET REF: SHEET 10
- NOTES:**
- ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.
  - CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.
  - ANY SLOPES GREATER THAN 3:08 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

USER: robert.j.lucsko  
PLOT DATE/TIME: 6/20/2017 1:42 PM  
LAYOUT TAB: SAWC4  
CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS L4-9



ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

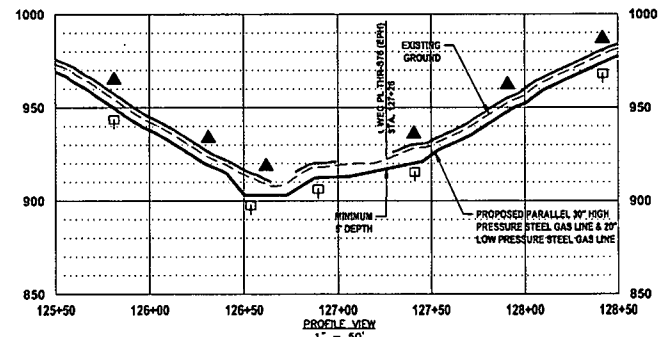
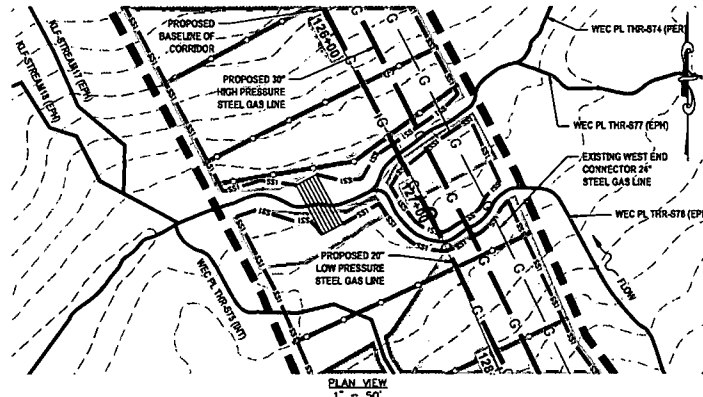
**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID128), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

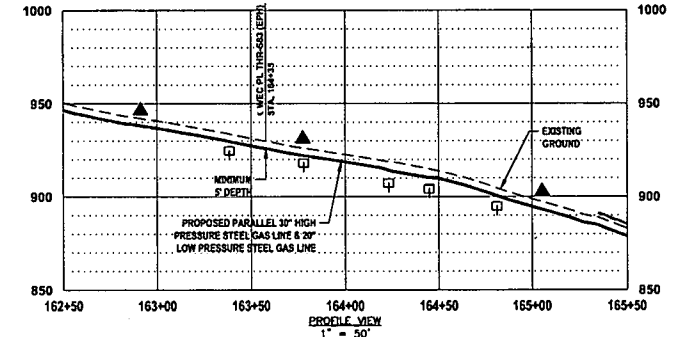
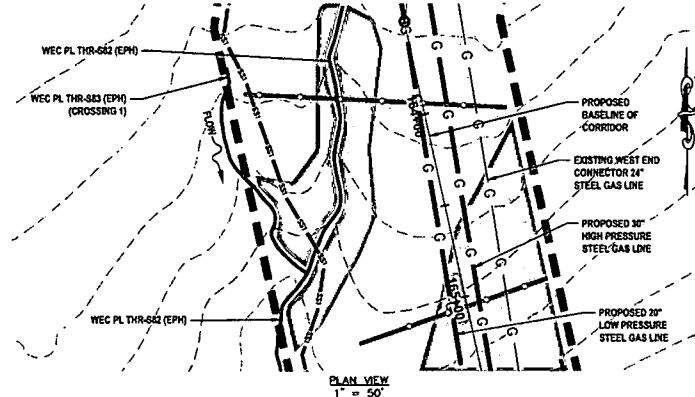
**Antero**  
MidstreamPartners LP  
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**  
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" HIGH PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JAL, R.A. (TTC)  
CHECKED: AR, JMH (TTC)  
SHEET 43  
SHT. NAME: 050-6321\STRICKLING\SA&WC4  
REV. 2

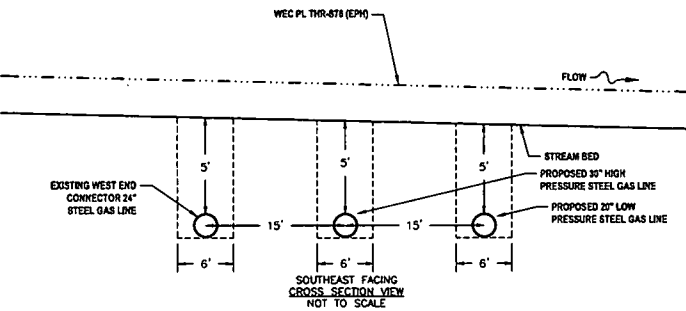
**STREAM CROSSING 16  
WEC PL THR-S76 (EPH)**



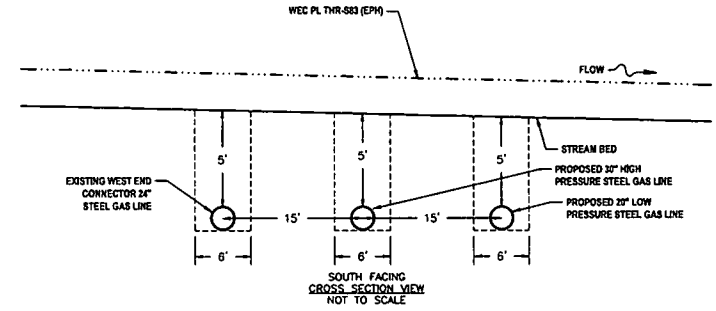
**STREAM CROSSING 17  
WEC PL THR-S83 (EPH) (CROSSING 1)**



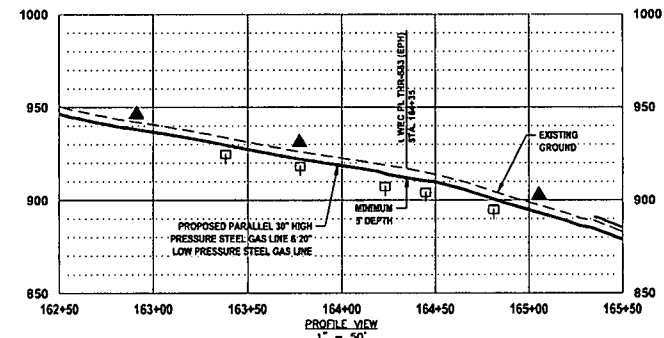
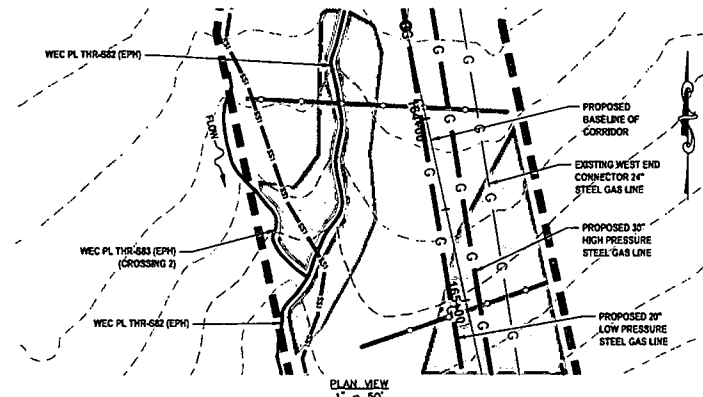
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 - SILT SAVER BSF#-P1
- SS2 - SILT SAVER BSF#-P2
- ROLLED EROSION CONTROL PRODUCT
- DELIMITED STREAM
- DELIMITED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING



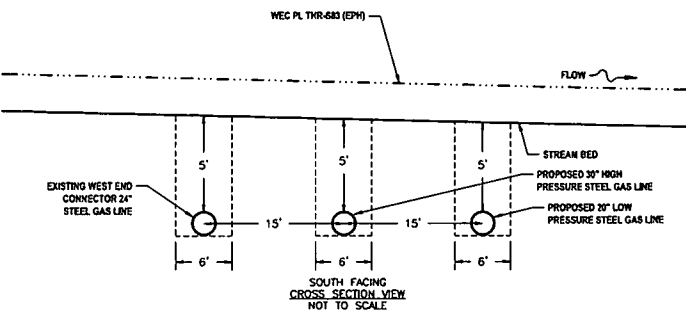
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 - SILT SAVER BSF#-P1
- SS2 - SILT SAVER BSF#-P2
- ROLLED EROSION CONTROL PRODUCT
- DELIMITED STREAM
- DELIMITED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING



**STREAM CROSSING 18  
WEC PL THR-S83 (EPH) (CROSSING 2)**



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 - SILT SAVER BSF#-P1
- SS2 - SILT SAVER BSF#-P2
- ROLLED EROSION CONTROL PRODUCT
- DELIMITED STREAM
- DELIMITED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING



**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (CGVD12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero Midstream Partners LP**

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

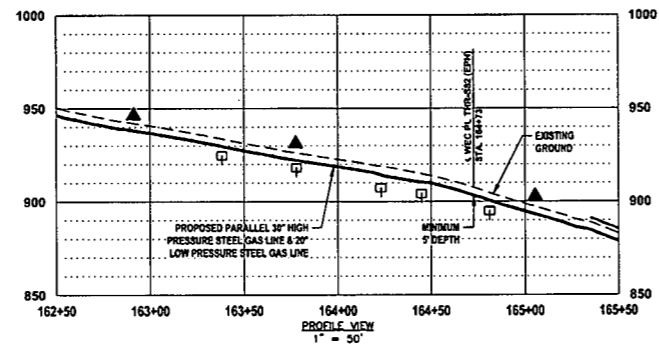
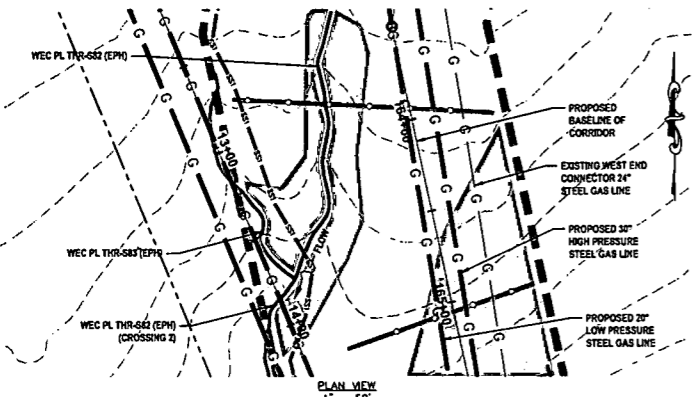
DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JLL, RJA (TTO)  
CHECKED: AR, JMI (TTO)

SHEET 44  
SHT. NAME: 050-6321\STRICKLING\S&WC5

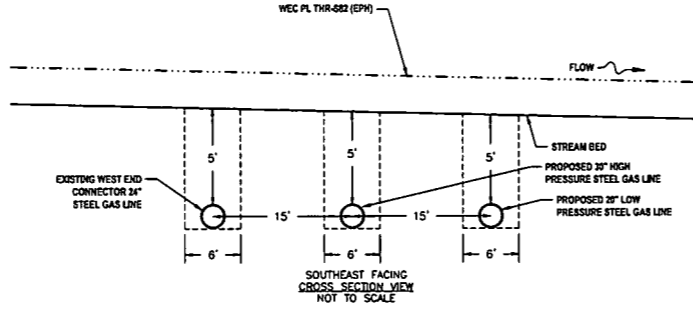
REV. 2



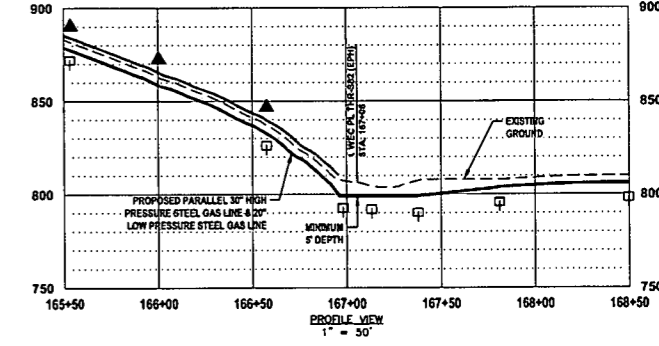
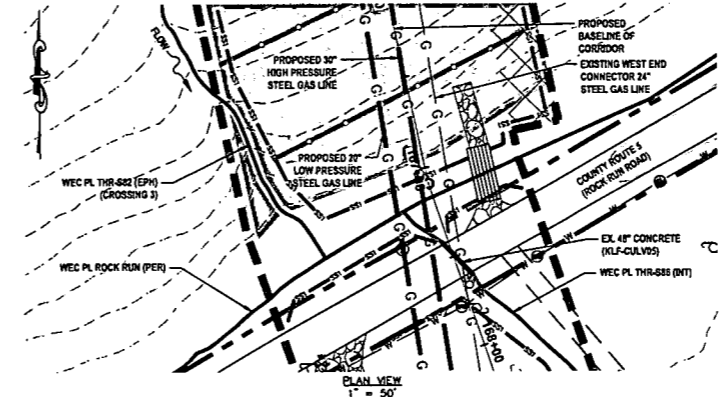
**STREAM CROSSING 19  
WEC PL THR-S82 (EPH) (CROSSING 2)**



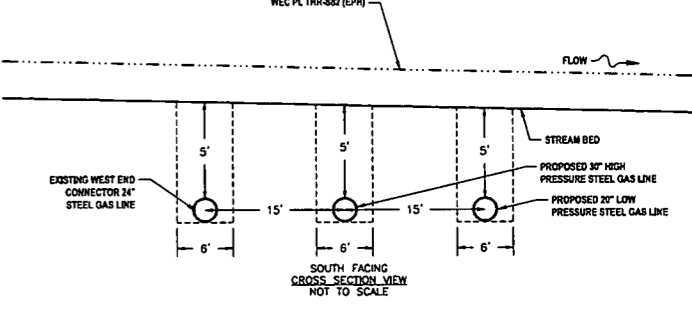
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/DRIVEWAY ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
LAT: 39°18'20.14" N  
LONG: 80°49'23.15" W  
SHEET REF: SHEET 11
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



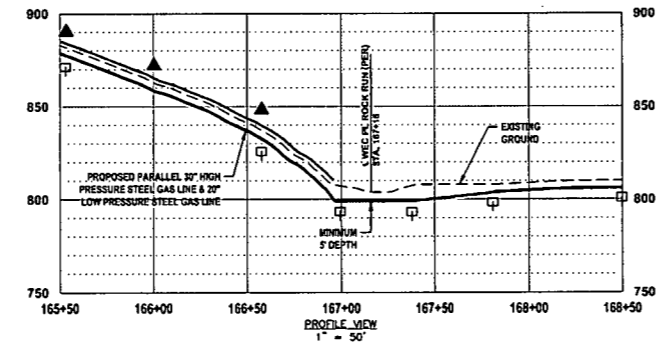
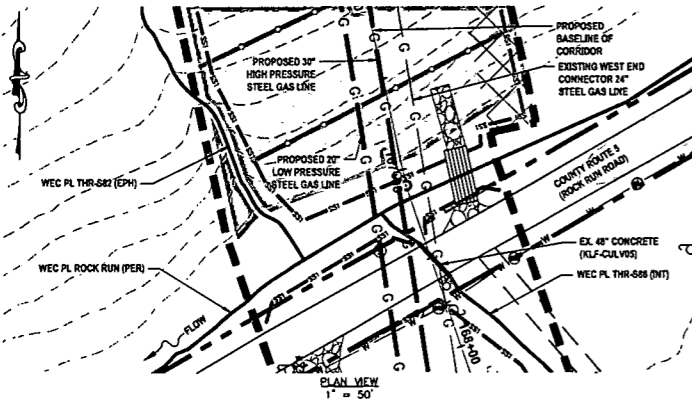
**STREAM CROSSING 20  
WEC PL THR-S82 (EPH) (CROSSING 3)**



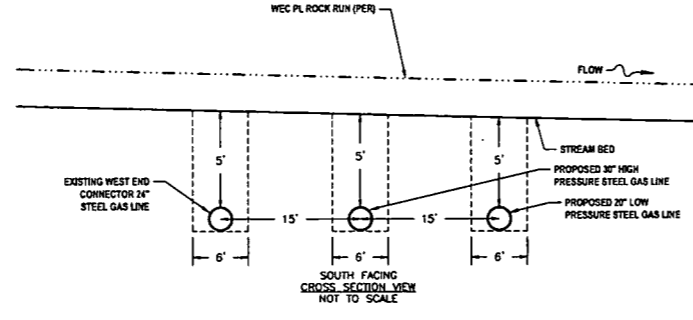
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/DRIVEWAY ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
LAT: 39°18'17.84" N  
LONG: 80°49'23.29" W  
SHEET REF: SHEET 11
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



**STREAM CROSSING 21  
WEC PL ROCK RUN (PER)**



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/DRIVEWAY ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 18.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
LAT: 39°18'18.06" N  
LONG: 80°49'23.38" W  
SHEET REF: SHEET 11
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

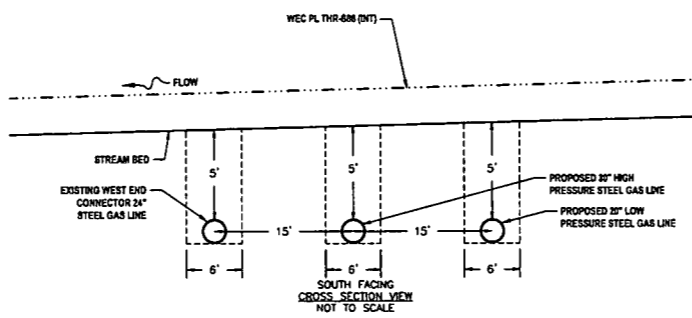
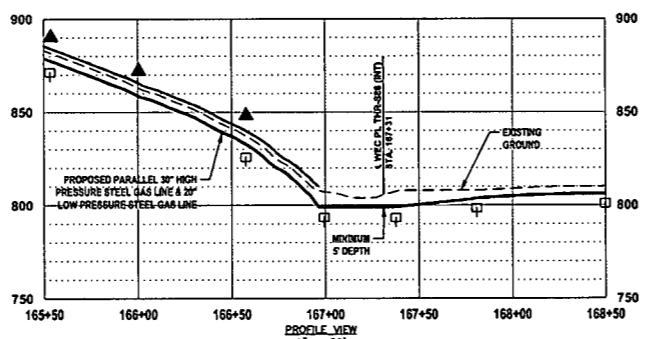
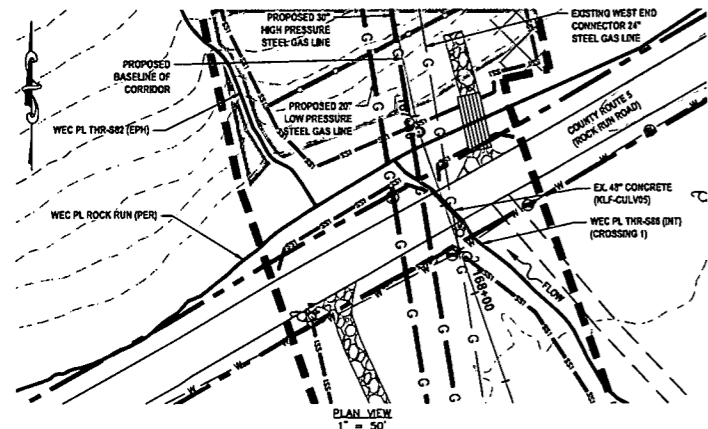
DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JLA, RJA (TIG)  
CHECKED: AR, JRN (TIG)

SHEET 45

SHT. NAME: 050-6321\STRICKLING\S&WC6 REV. 2

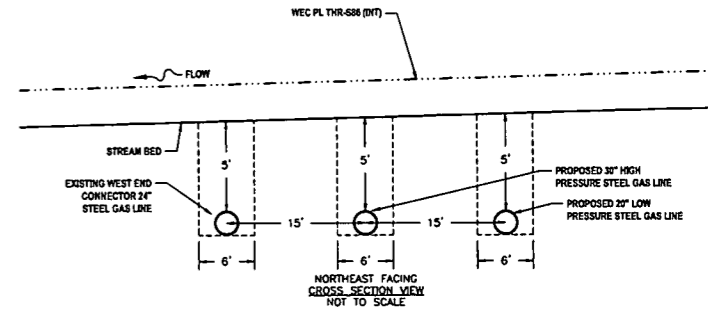
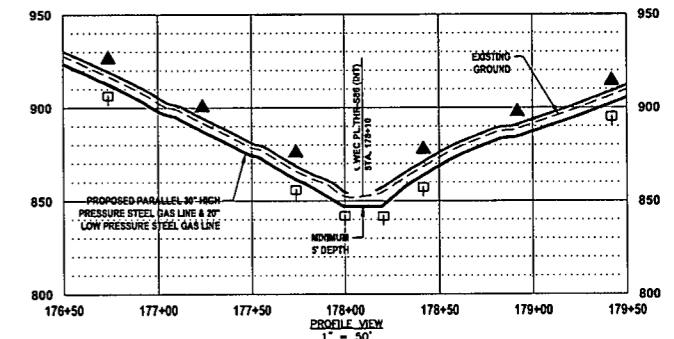
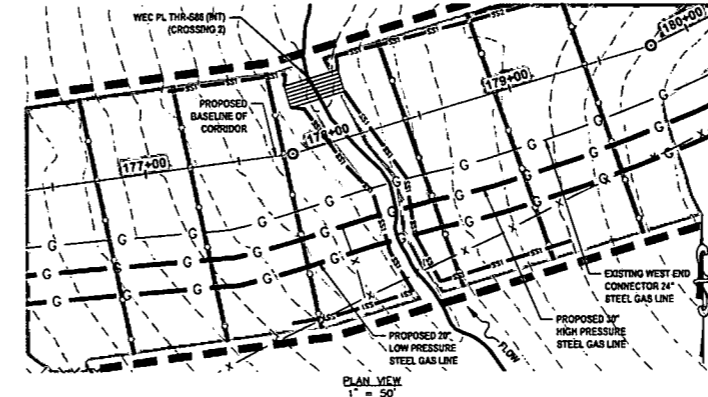
LAYOUT TAB: S&WC6 CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg PLOT DATE/TIME: 6/20/2017 1:48 PM USER: robert.j.lucsko

**STREAM CROSSING 22  
WEC PL THR-S86 (INT) (CROSSING 1)**



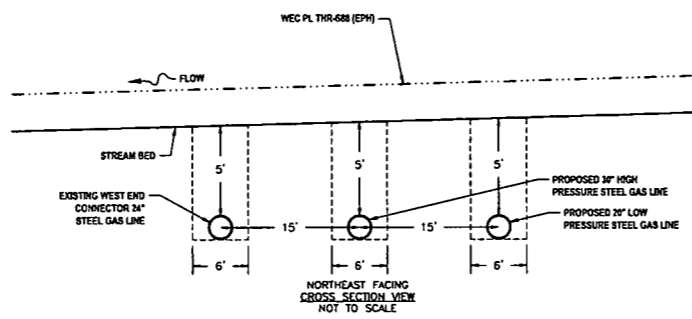
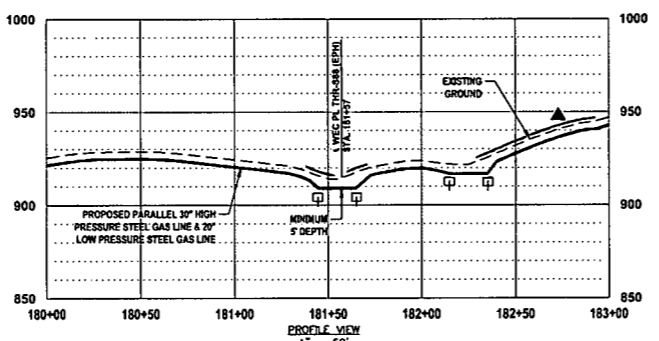
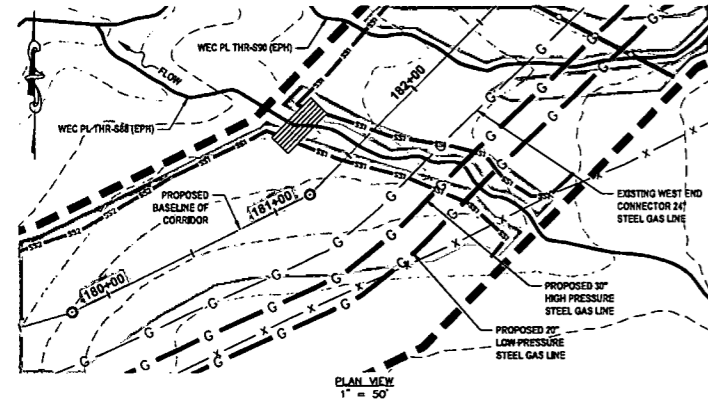
- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - C EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 5.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
LAT: 39°18'12.84" N  
LONG: 80°45'21.28" W  
SHEET REF: SHEET 11
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 23  
WEC PL THR-S86 (INT) (CROSSING 2)**



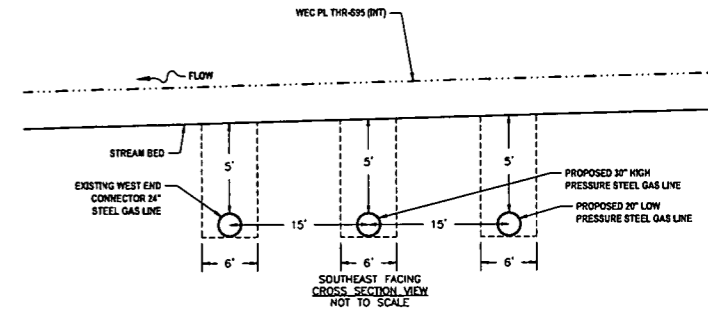
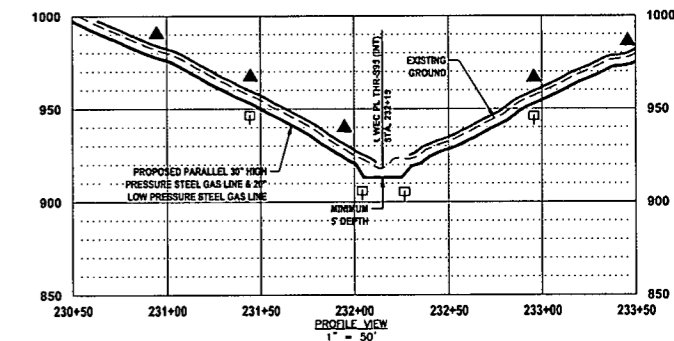
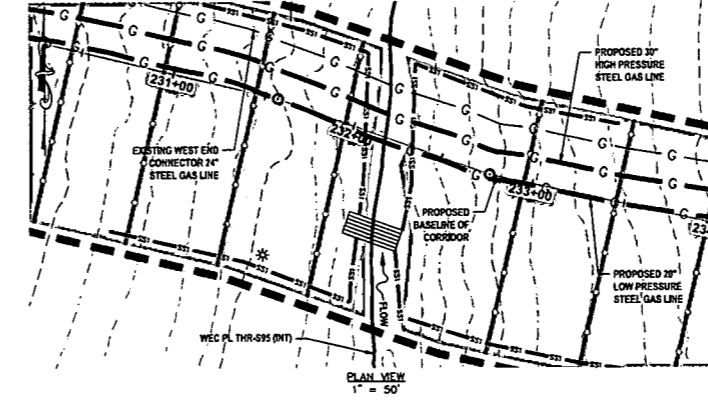
- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - C EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 5.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
LAT: 39°18'10.99" N  
LONG: 80°45'14.90" W  
SHEET REF: SHEET 12
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 24  
WEC PL THR-S88 (EPH)**



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - C EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
LAT: 39°18'12.00" N  
LONG: 80°44'51.04" W  
SHEET REF: SHEET 12
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 25  
WEC PL THR-S95 (INT)**



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - C EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 5.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
LAT: 39°18'20.50" N  
LONG: 80°44'12.83" W  
SHEET REF: SHEET 14
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

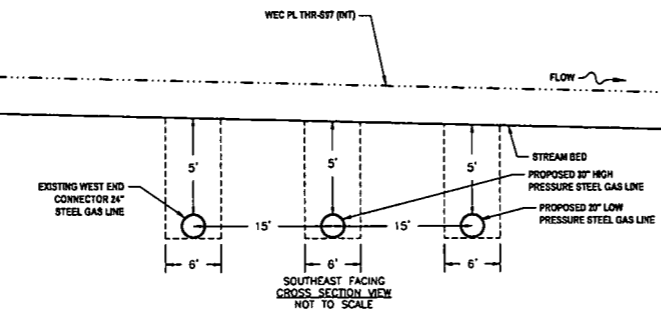
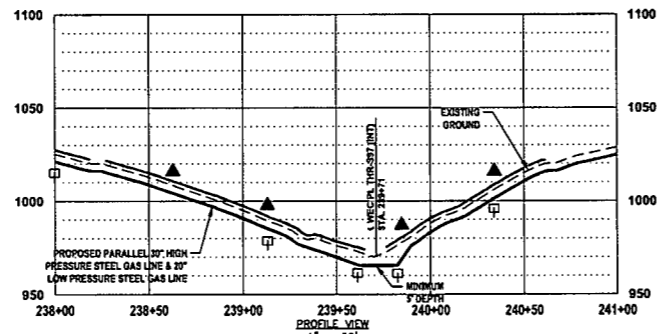
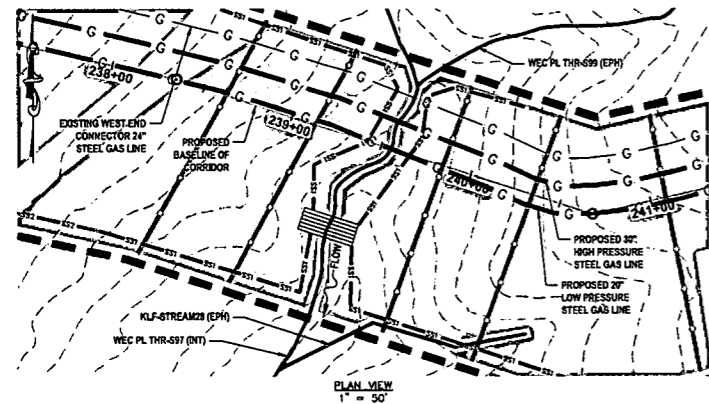
**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**  
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDL, RAL (TIG)  
CHECKED: AR, JRN (TIG)

SHEET 46  
SHT. NAME: 050-6321\STRICKLING\S&WC7 REV. 2

LAYOUT TAB: S&WC7  
CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg  
PLOT DATE/TIME: 6/20/2017 1:53 PM  
USER: robert.j.lucero

**STREAM CROSSING 26  
WEC PL THR-S97 (INT)**



**LEGEND**

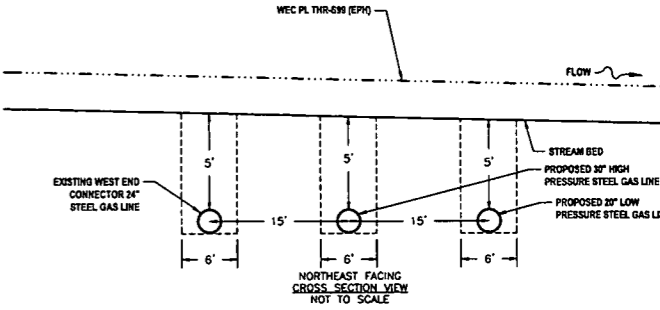
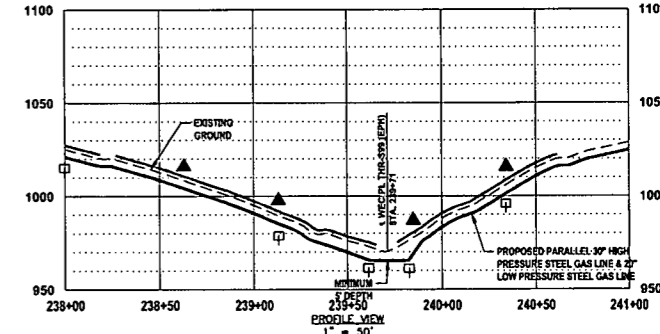
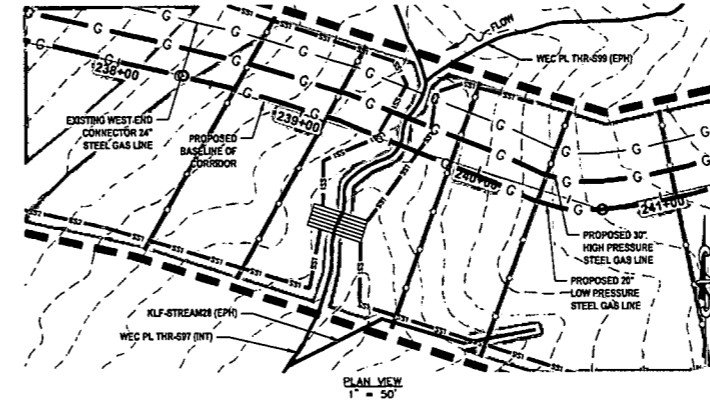
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRF-P1
- SS2 SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELIMITED STREAM
- DELIMITED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 5.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°18'18.84" N  
LONG: 80°43'03.53" W  
SHEET REF: SHEET 14

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 27  
WEC PL THR-S99 (EPH)**



**LEGEND**

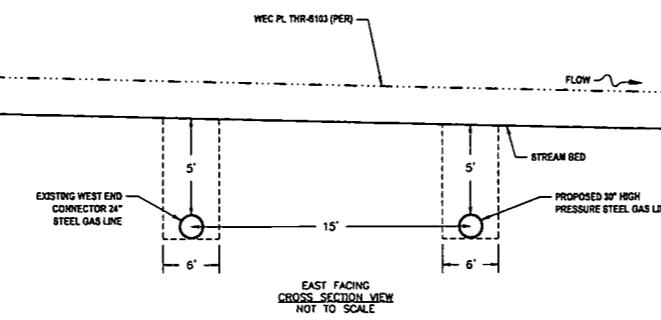
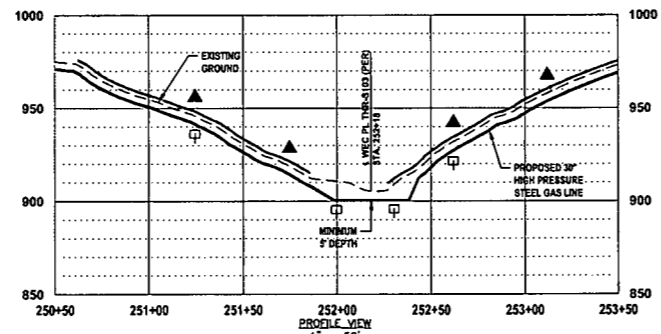
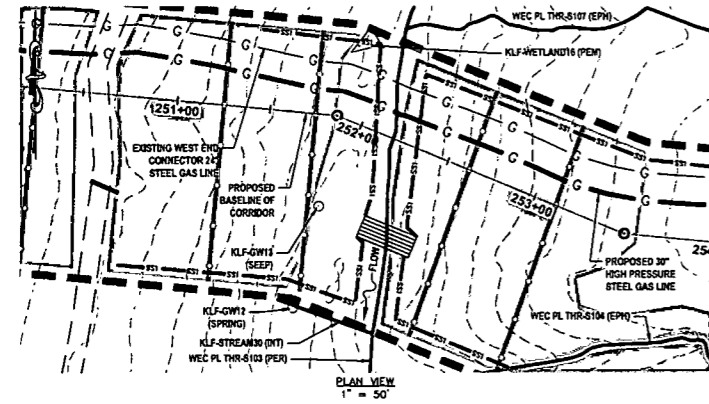
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRF-P1
- SS2 SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELIMITED STREAM
- DELIMITED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°18'18.84" N  
LONG: 80°43'03.53" W  
SHEET REF: SHEET 14

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 28  
WEC PL THR-S103 (PER)**



**LEGEND**

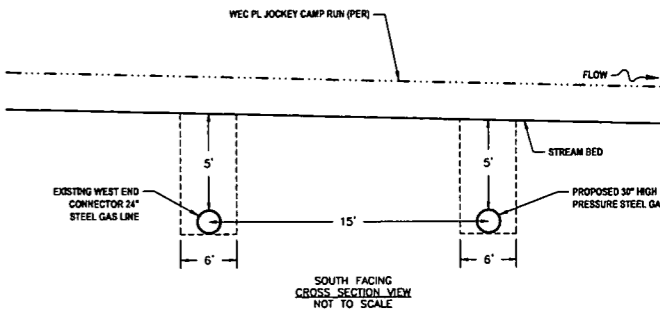
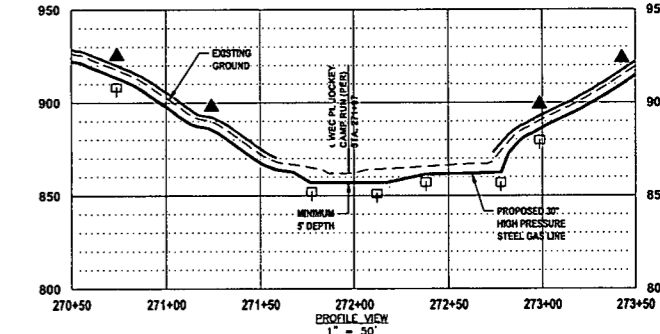
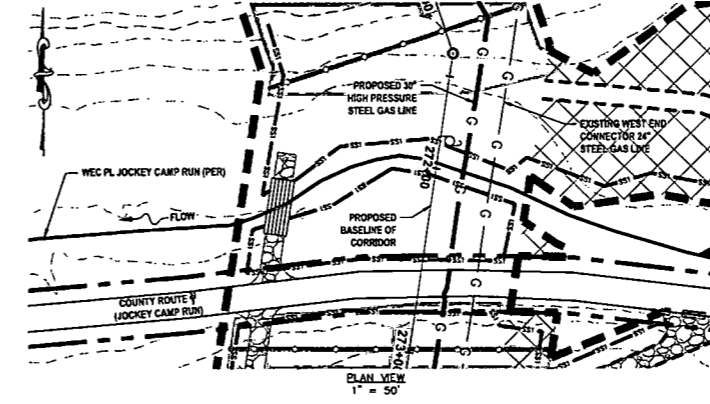
- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRF-P1
- SS2 SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELIMITED STREAM
- DELIMITED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 7.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°18'18.27" N  
LONG: 80°43'17.64" W  
SHEET REF: SHEET 15

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 29  
WEC PL JOCKEY CAMP RUN (PER)**



**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRF-P1
- SS2 SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELIMITED STREAM
- DELIMITED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 20.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°18'06.76" N  
LONG: 80°43'20.53" W  
SHEET REF: SHEET 16

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS. REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RA (TIG)  
CHECKED: AR, JPN (TIG)

SHEET 47  
SHT. NAME: 050-6321\STRICKLING\S&WCB

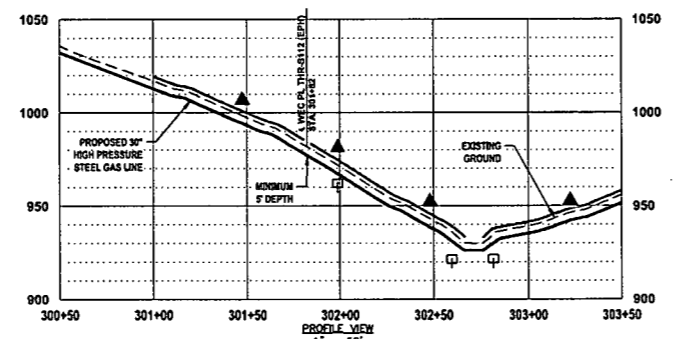
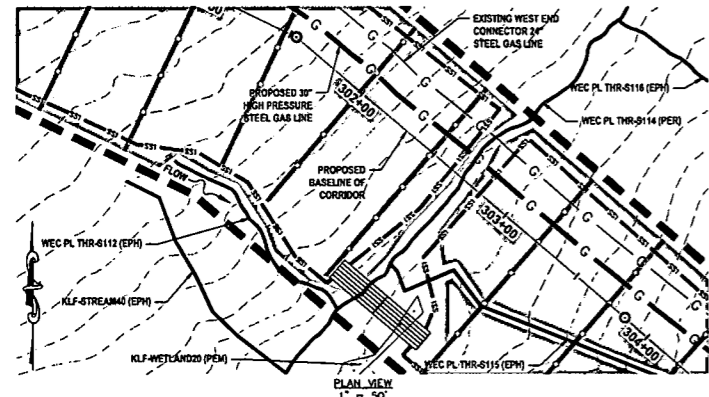
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USER: robert.j.luczk

PLOT DATE/TIME: 6/20/2017 2:04 PM

LAYOUT TAB: SWWC9  
CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg

### STREAM CROSSING 30 WEC PL THR-S112 (EPH)



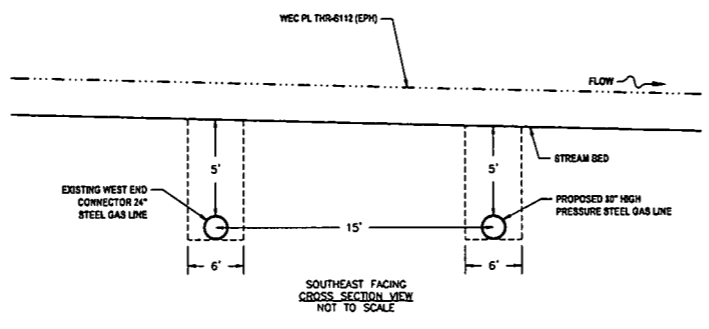
**LEGEND**

- ▲ PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRF-P1
- SS2 SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

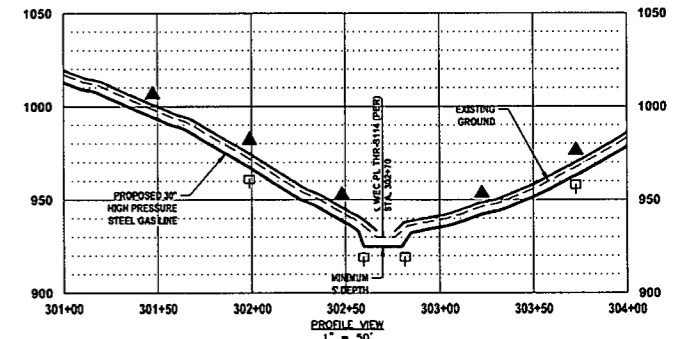
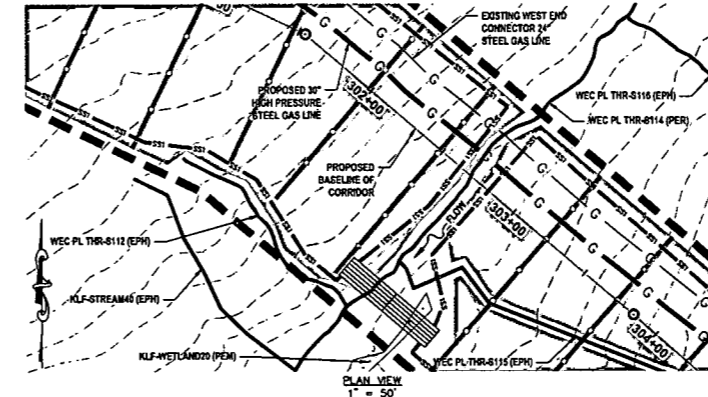
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 2.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°17'40.50" N  
LONG: 80°43'28.42" W  
SHEET REF: SHEET 17

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



### STREAM CROSSING 31 WEC PL THR-S114 (PER)



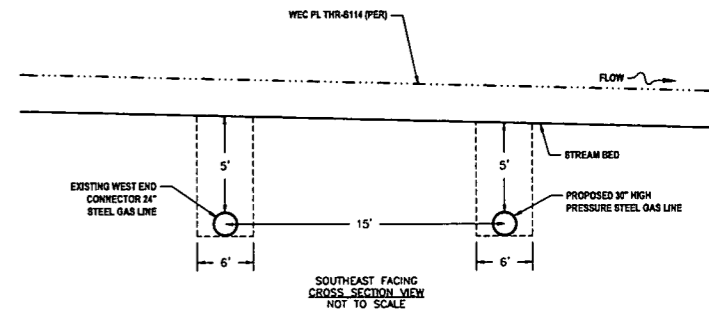
**LEGEND**

- ▲ PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRF-P1
- SS2 SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

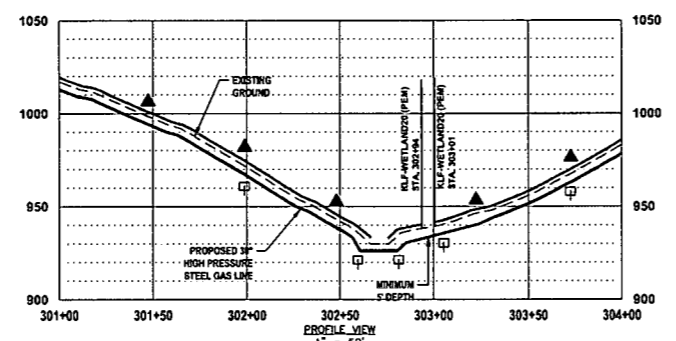
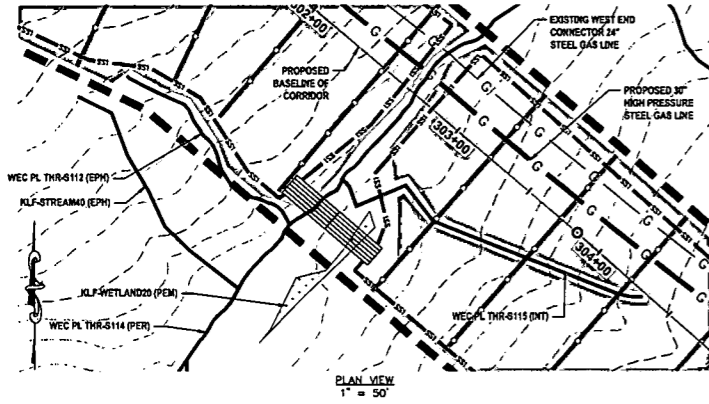
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 18.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°17'40.50" N  
LONG: 80°43'28.42" W  
SHEET REF: SHEET 17

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



### WETLAND CROSSING 2 KLF-WETLAND20 (PEM)



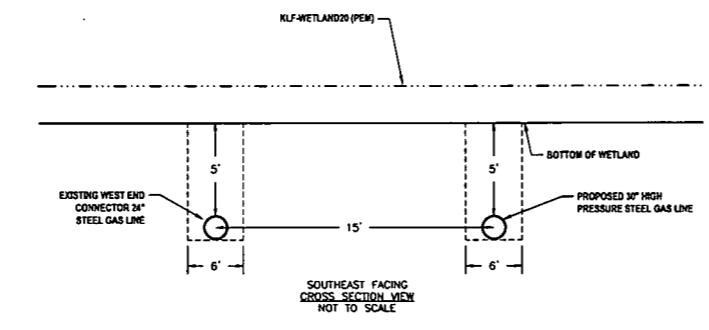
**LEGEND**

- ▲ PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRF-P1
- SS2 SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

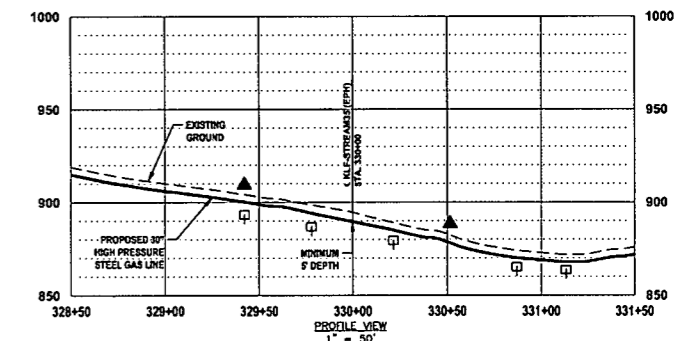
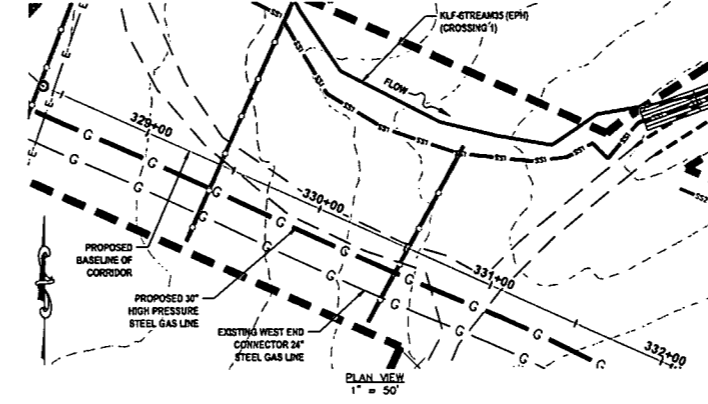
**WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
WETLAND WIDTH: 7.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°17'39.89" N  
LONG: 80°43'21.13" W  
SHEET REF: SHEET 17

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



### STREAM CROSSING 32 KLF-STREAM35 (EPH) (CROSSING 1)



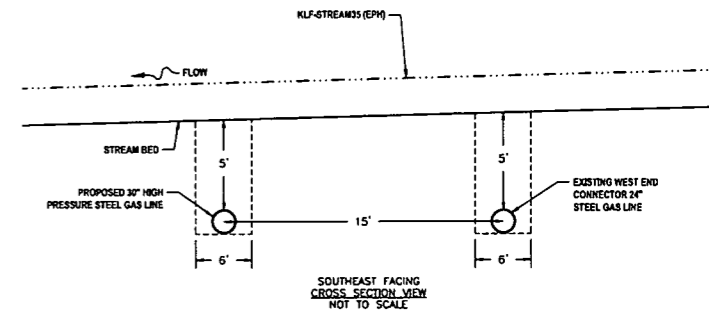
**LEGEND**

- ▲ PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SALT SAVER BSRF-P1
- SS2 SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 5.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°17'22.45" N  
LONG: 80°42'56.22" W  
SHEET REF: SHEET 18

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

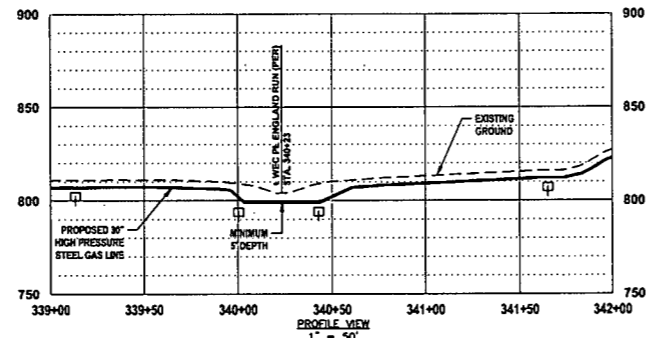
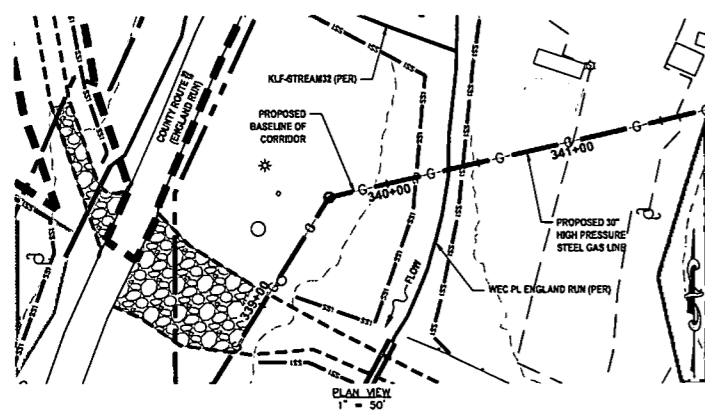
SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
1.	PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig	
2.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	
3.	FIELD DELINEATION PERFORMED AND PROVIDED BY: KLENFELDER, INC.	
4.	ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	
5.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.	
6.	FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**  
PROPOSED 30" HIGH PRESSURE STEEL GAS  
LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA  
DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RA (TTO)  
CHECKED: AR, JRM (TTO)  
SHEET 48  
SHT. NAME: 050-6321\STRICKLING\S&WC9  
REV. 2

**STREAM CROSSING 33  
WEC PL ENGLAND RUN (PER)**



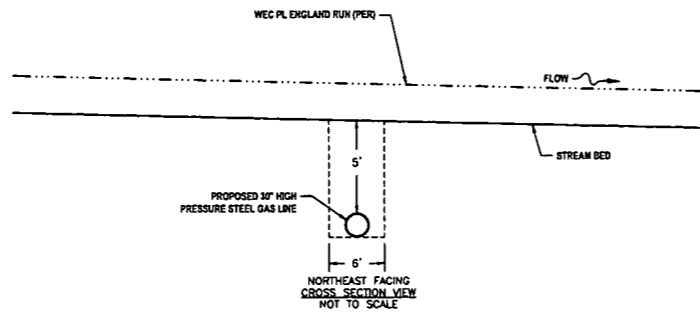
**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 - SALT SAVER BSRF-P1
- SS2 - SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- G - PROPOSED STEEL GAS LINE
- G - EXISTING STEEL GAS LINE
- 21+00 - BASELINE OF PROPOSED CORRIDOR WITH STATIONING

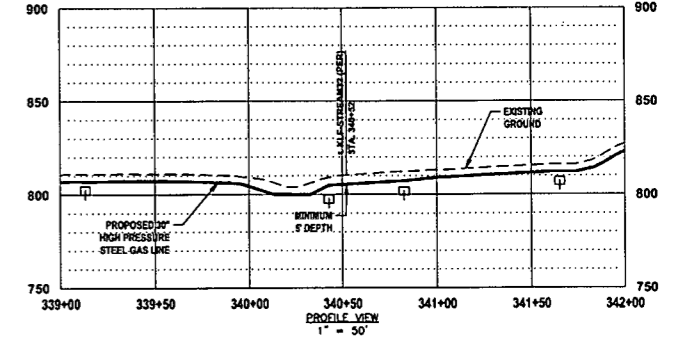
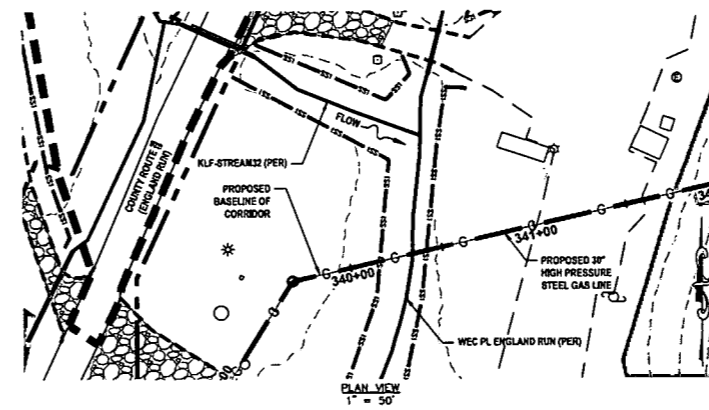
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 18.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°17'18.59" N  
LONG: 82°47'48.52" W  
SHEET REF: SHEET 10

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



**STREAM CROSSING 34  
KLF-STREAM32 (PER)**



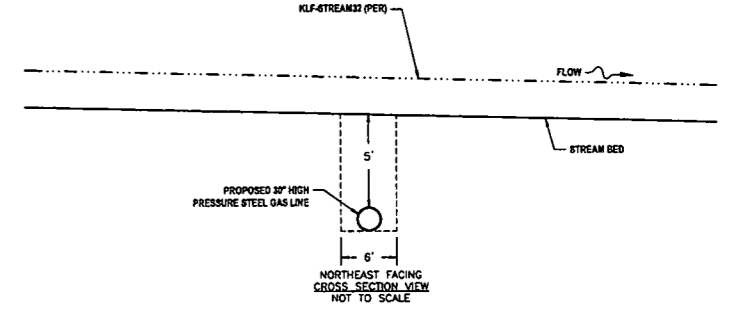
**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 - SALT SAVER BSRF-P1
- SS2 - SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- G - PROPOSED STEEL GAS LINE
- G - EXISTING STEEL GAS LINE
- 21+00 - BASELINE OF PROPOSED CORRIDOR WITH STATIONING

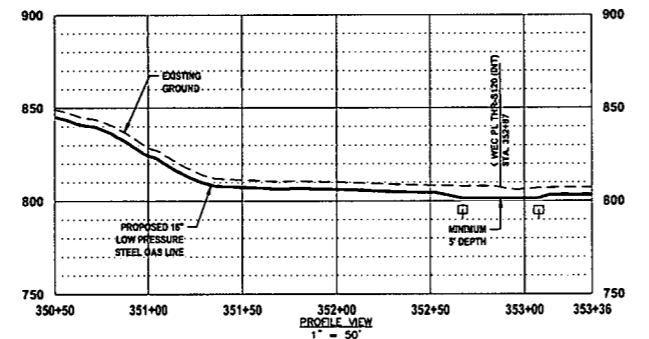
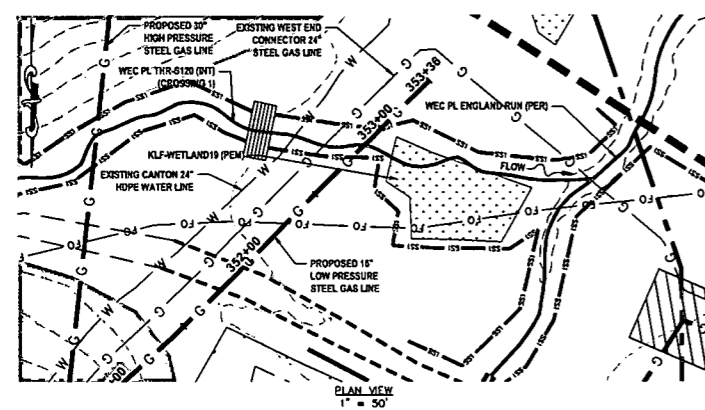
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 7.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°17'19.21" N  
LONG: 82°47'48.47" W  
SHEET REF: SHEET 19

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



**STREAM CROSSING 35  
WEC PL THR-S120 (INT) (CROSSING 1)**



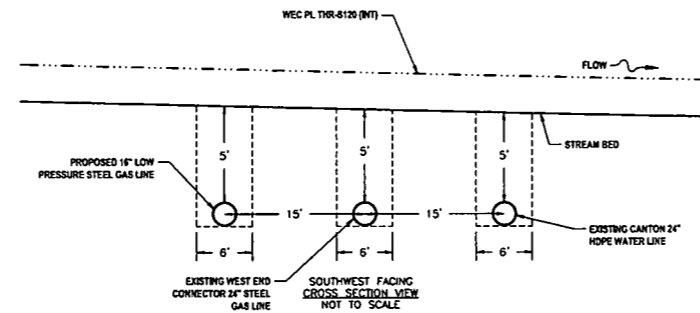
**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 - SALT SAVER BSRF-P1
- SS2 - SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- G - PROPOSED STEEL GAS LINE
- G - EXISTING STEEL GAS LINE
- 21+00 - BASELINE OF PROPOSED CORRIDOR WITH STATIONING

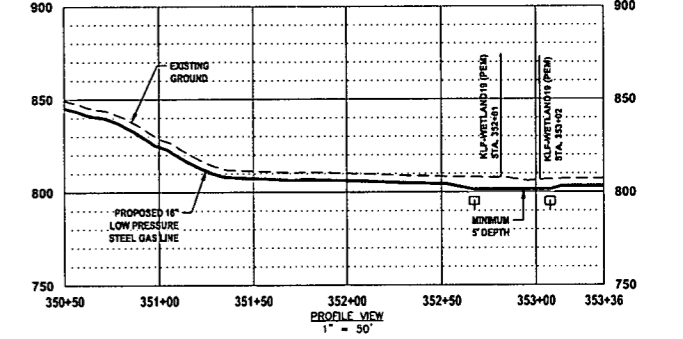
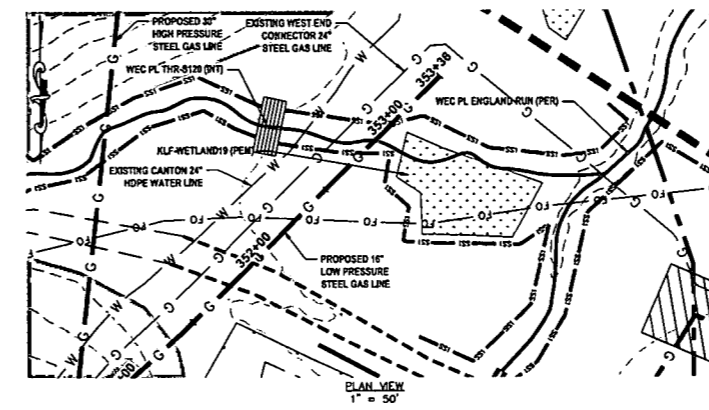
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 4.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°17'18.11" N  
LONG: 82°47'48.19" W  
SHEET REF: SHEET 20

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



**WETLAND CROSSING 3  
KLF-WETLAND19 (PEM)**



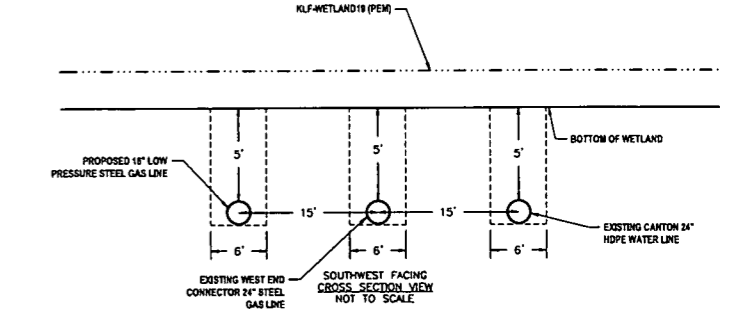
**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 - SALT SAVER BSRF-P1
- SS2 - SALT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- G - PROPOSED STEEL GAS LINE
- G - EXISTING STEEL GAS LINE
- 21+00 - BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
WETLAND WIDTH: 21.0'  
PROPOSED METHOD OF CONSTRUCTION: OPEN CUT

**REFERENCES:**  
LAT: 39°17'18.33" N  
LONG: 82°47'48.52" W  
SHEET REF: SHEET 20

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
3. ANY SLOPES GREATER THAN 30% SHALL HAVE ROLLED EROSION CONTROL MATTING INSTALLED DURING FINAL RESTORATION.



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID128), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLENFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

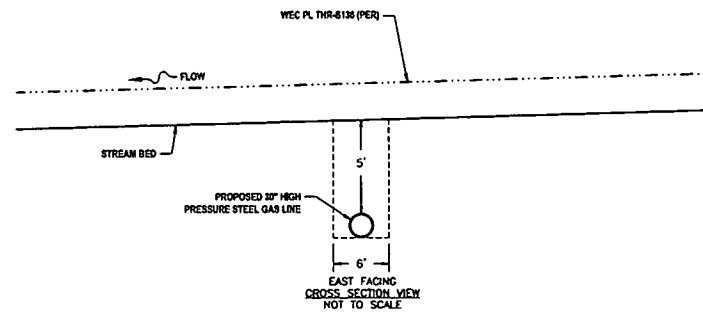
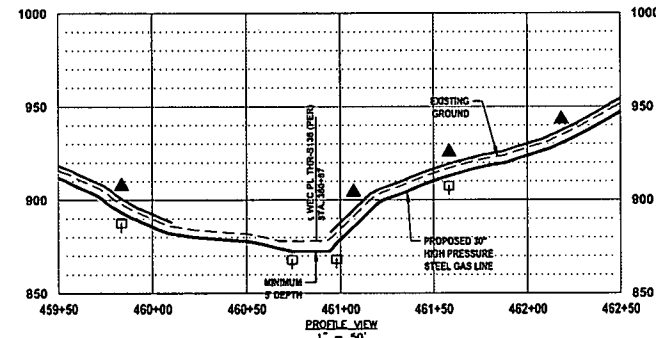
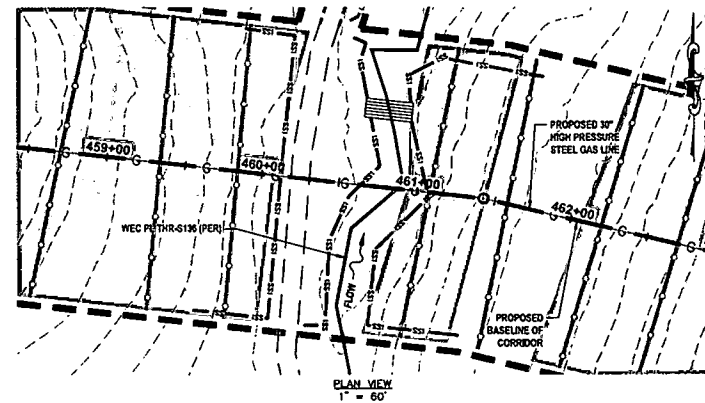
**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE**  
**STREAM & WETLAND CROSSINGS**  
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/7/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RJA (TTS)  
CHECKED: AR, JPI (TTS)

SHEET 49  
SHT. NAME: 050-6321\STRICKLING\S&WC10 REV. 2

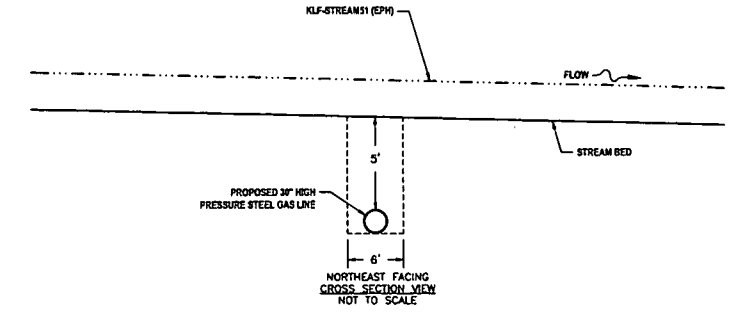
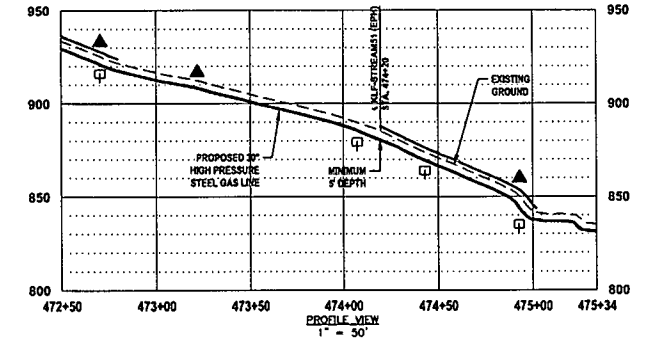
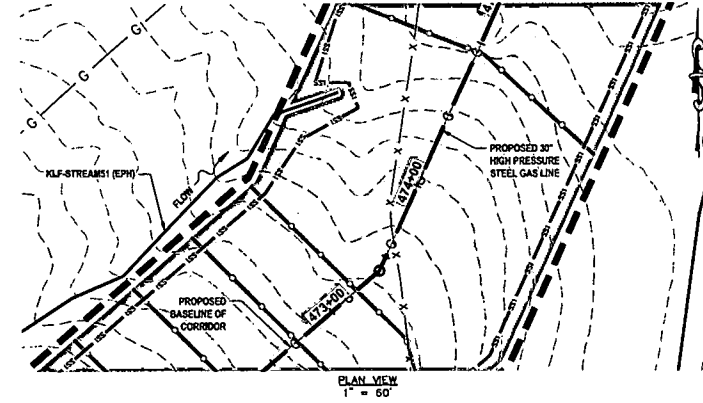
LAYOUT TAB: S&WC10  
CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg  
PLOT DATE/TIME: 6/20/2017 2:08 PM  
USER: robert.j.luckko

**STREAM CROSSING 36  
WEC PL THR-S136 (PER)**



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - C EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
 STREAM CLASSIFICATION: PERENNIAL  
 STREAM WIDTH: 3.0'  
 PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
 LAT: 39°16'28.03" N  
 LONG: 80°13'32.43" W  
 SHEET REF: SHEET 28
- NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
 3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATING INSTALLED DURING FINAL RESTORATION.

**STREAM CROSSING 37  
KLF-STREAM51 (EPH)**



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - SS1 SILT SAVER BSRP-P1
  - SS2 SILT SAVER BSRP-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - C EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 2.0'  
 PROPOSED METHOD OF CONSTRUCTION: OPEN CUT
- REFERENCES:**  
 LAT: 39°16'30.16" N  
 LONG: 80°17'24.00" W  
 SHEET REF: SHEET 28
- NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN 5' DEPTH AT STREAM OR WETLAND CROSSING.  
 3. ANY SLOPES GREATER THAN 3:1 SHALL HAVE ROLLED EROSION CONTROL MATING INSTALLED DURING FINAL RESTORATION.

USER: robert.j.lucero  
 PLOT DATE/TIME: 6/20/2017 2:11 PM  
 LAYOUT TAB: S&WC11  
 CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO\SURVEY\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg



**IFP**  
 ISSUED FOR PERMITTING  
 DATE: 06/07/2017  
 AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

REVISION			
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JLL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	AR

**Antero**  
 Midstream Partners LP  
**STRICKLING PIPELINE**  
**STREAM & WETLAND CROSSINGS**  
 PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

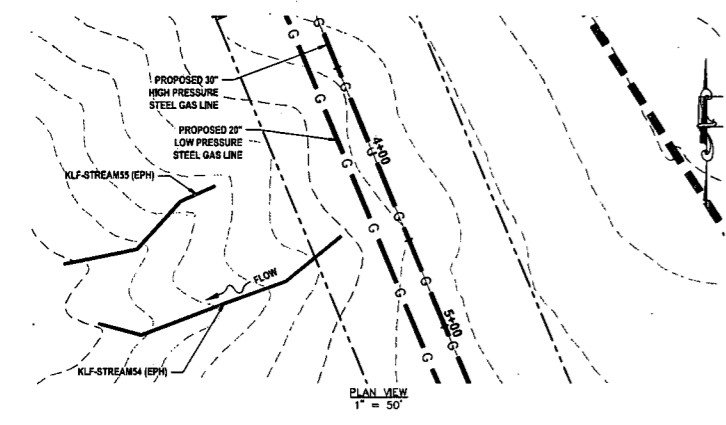
DATE: 6/20/2017  
 SCALE: AS SHOWN  
 DRAWN BY: JLL, RA (TIG)  
 CHECKED: AR, JRM (TIG)  
 SHEET 50  
 SHT. NAME: 050-6321\STRICKLING\S&WC11 REV. 2

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
 PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
 HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
 VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

LAYOUT TAB: S&WC12  
 CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg  
 PLOT DATE/TIME: 6/20/2017 2:15 PM  
 USER: robert.j.lucsko

### HDD CONTINGENCY BORE CROSSING 1 KLF-STREAM54 (EPH)



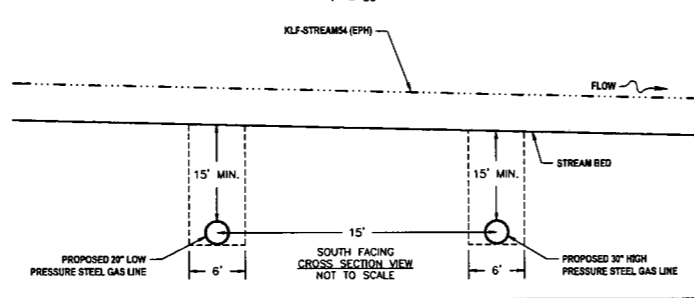
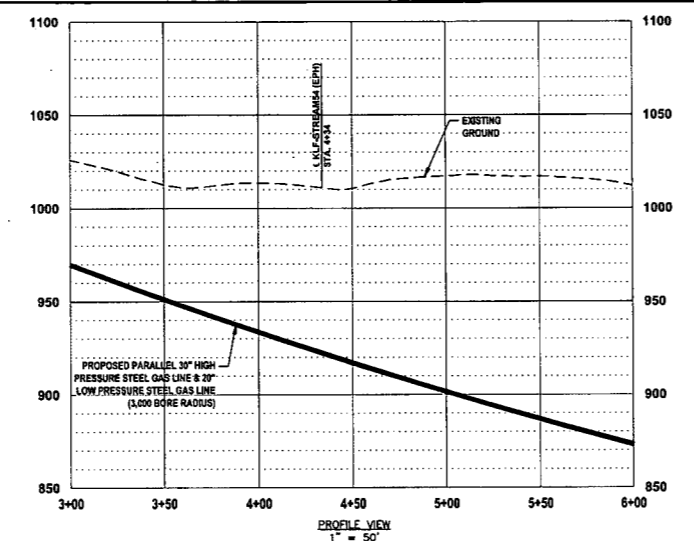
**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

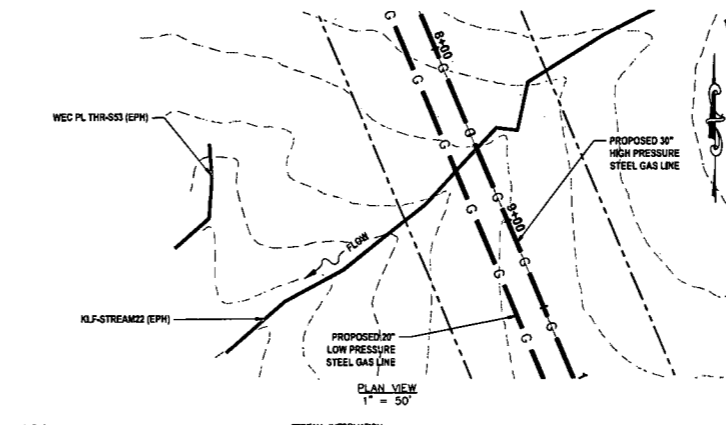
**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 1.0'  
 PROPOSED METHOD OF CONSTRUCTION: HORIZONTAL DIRECTIONAL BORE

**REFERENCES:**  
 LAT: 39°18'28.05" N  
 LONG: 80°45'28.27" W  
 SHEET REF: SHEET 11A

**NOTES:**  
 1. CONTRACTOR TO MAINTAIN 15' DEPTH AT STREAM OR WETLAND CROSSING.



### HDD CONTINGENCY BORE CROSSING 2 KLF-STREAM22 (EPH)



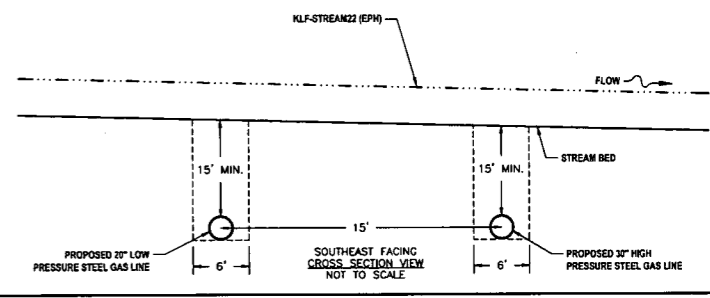
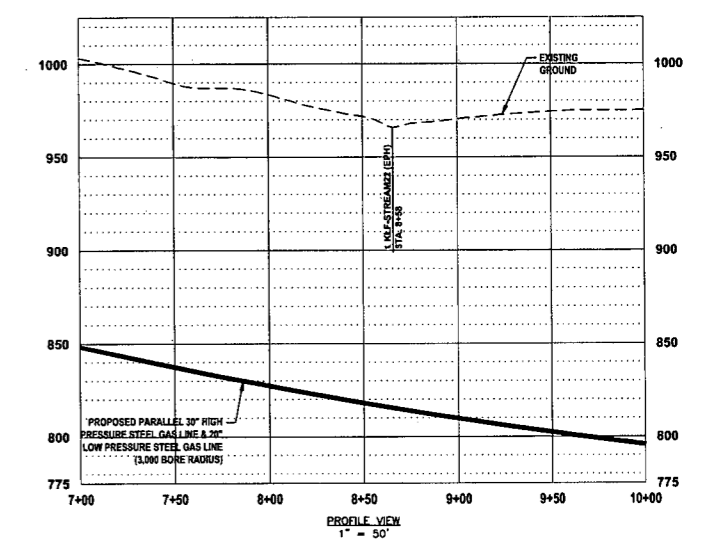
**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

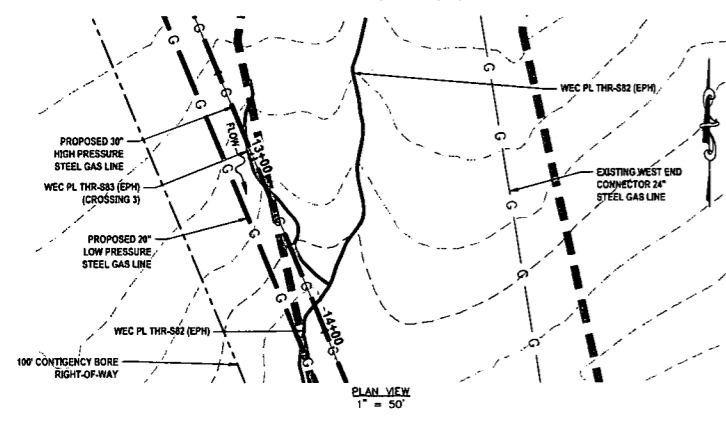
**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 3.0'  
 PROPOSED METHOD OF CONSTRUCTION: HORIZONTAL DIRECTIONAL BORE

**REFERENCES:**  
 LAT: 39°18'24.93" N  
 LONG: 80°45'25.77" W  
 SHEET REF: SHEET 11

**NOTES:**  
 1. CONTRACTOR TO MAINTAIN 15' DEPTH AT STREAM OR WETLAND CROSSING.



### HDD CONTINGENCY BORE CROSSING 3 WEC PL THR-S83 (EPH) (CROSSING 3)



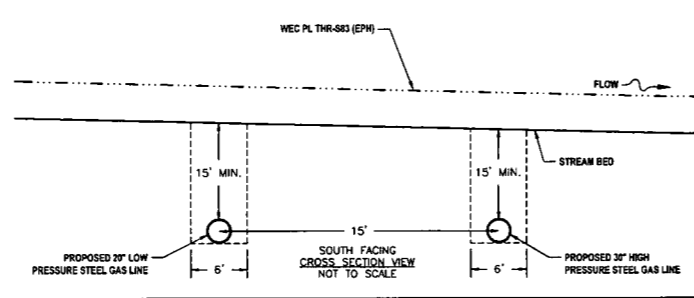
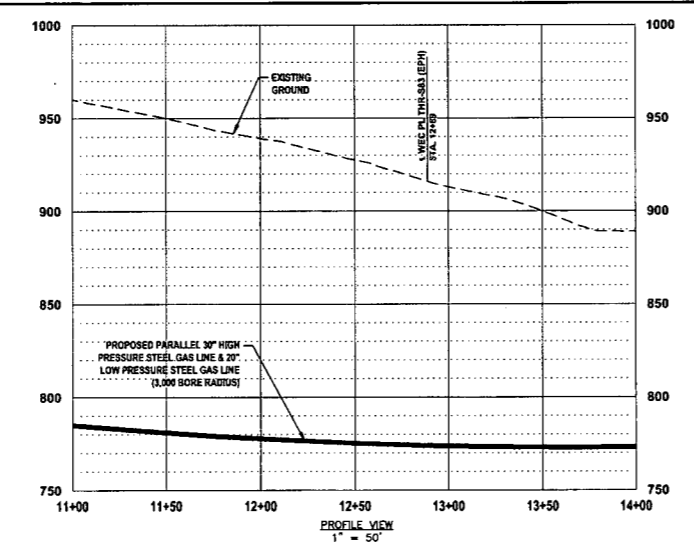
**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

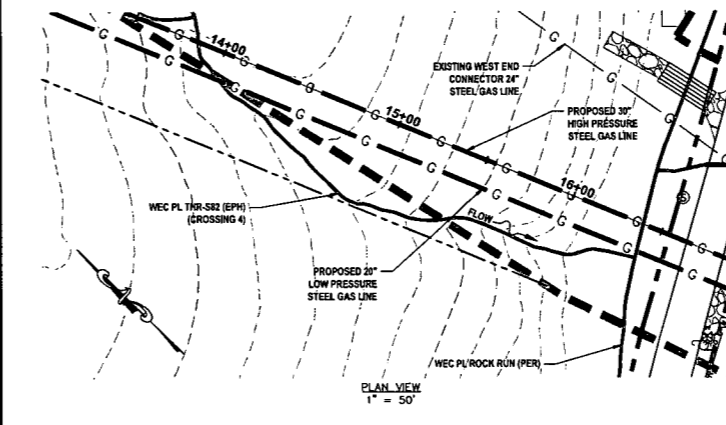
**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 1.0'  
 PROPOSED METHOD OF CONSTRUCTION: HORIZONTAL DIRECTIONAL BORE

**REFERENCES:**  
 LAT: 39°18'21.28" N  
 LONG: 80°45'23.99" W  
 SHEET REF: SHEET 11

**NOTES:**  
 1. CONTRACTOR TO MAINTAIN 15' DEPTH AT STREAM OR WETLAND CROSSING.



### HDD CONTINGENCY BORE CROSSING 4 WEC PL THR-S82 (EPH) (CROSSING 4)



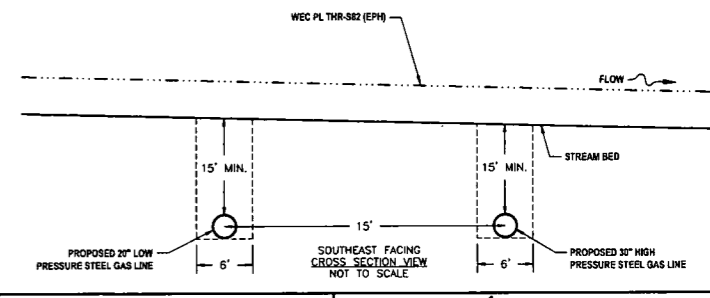
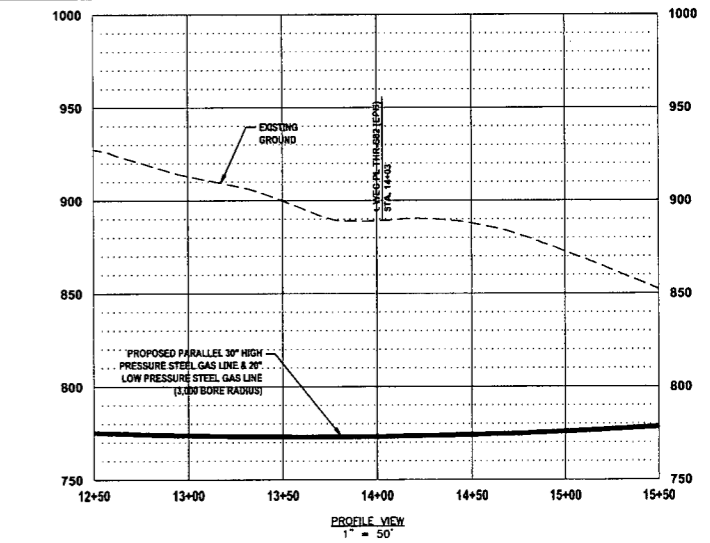
**LEGEND**

- PERMANENT WATER BAR (PROFILE)
- EARTH TRENCH BREAKER (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- PROPOSED STEEL GAS LINE
- EXISTING STEEL GAS LINE
- 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING

**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 3.0'  
 PROPOSED METHOD OF CONSTRUCTION: HORIZONTAL DIRECTIONAL BORE

**REFERENCES:**  
 LAT: 39°18'20.14" N  
 LONG: 80°45'21.15" W  
 SHEET REF: SHEET 11

**NOTES:**  
 1. CONTRACTOR TO MAINTAIN 15' DEPTH AT STREAM OR WETLAND CROSSING.



**IFP**  
 ISSUED FOR PERMITTING  
 DATE: 06/07/2017  
 AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

REVISION		
NO.	DESCRIPTION	DATE
1	REVISED PER COMMENTS FROM ANTERO	06/07/17
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17

**GENERAL INFORMATION**

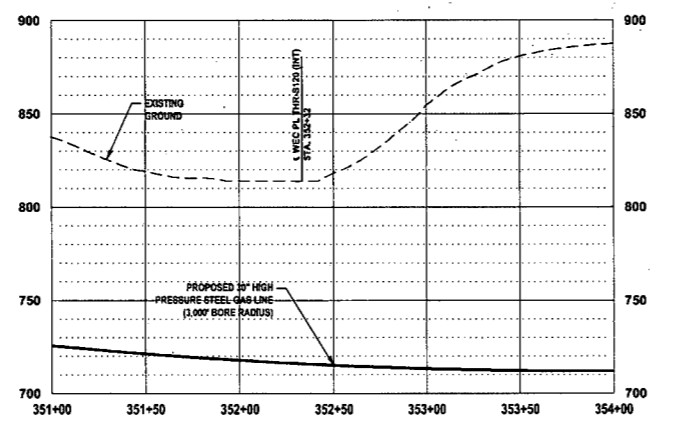
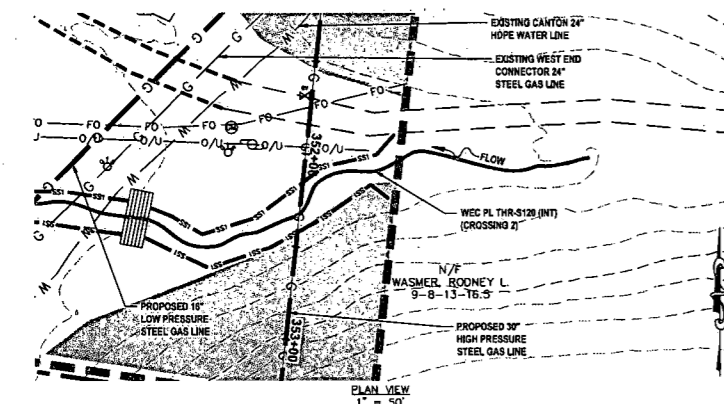
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
 PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
 HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
 VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
 Midstream Partners LP  
**STRICKLING PIPELINE**  
**STREAM & WETLAND CROSSINGS**  
 PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

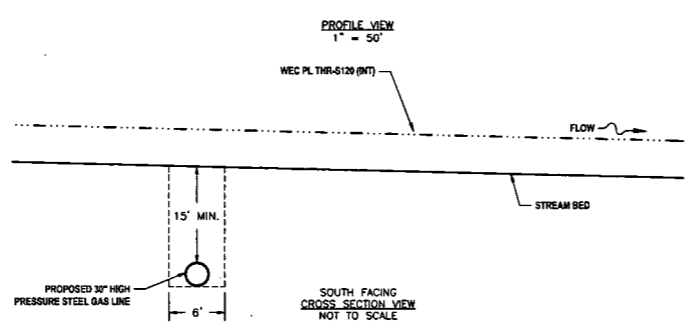
DATE: 6/20/2017  
 SCALE: AS SHOWN  
 DRAWN BY: J.A. (TIG)  
 CHECKED BY: AR. JSH (TIG)  
 SHEET 51  
 SHT. NAME: 050-6321\STRICKLING\S&WC12 REV. 2

LAYOUT TAB: SKWC13  
 CAD FILE: R:\050-6321-WECC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg  
 PLOT DATE/TIME: 6/20/2017 2:19 PM  
 USER: robert.j.lucsko

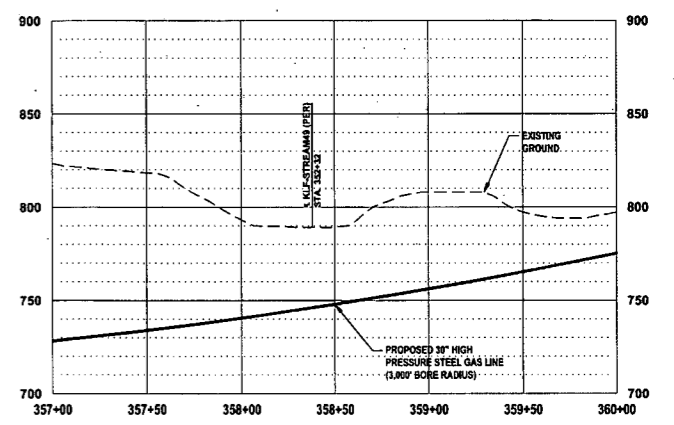
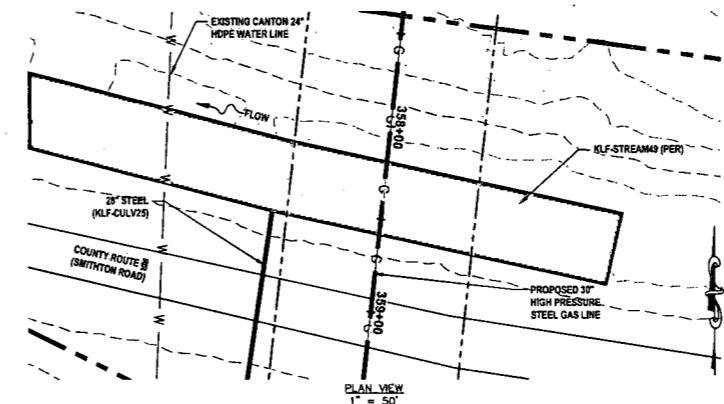
### HDD BORE CROSSING 1 WEC PL THR-S120 (INT) (CROSSING 2)



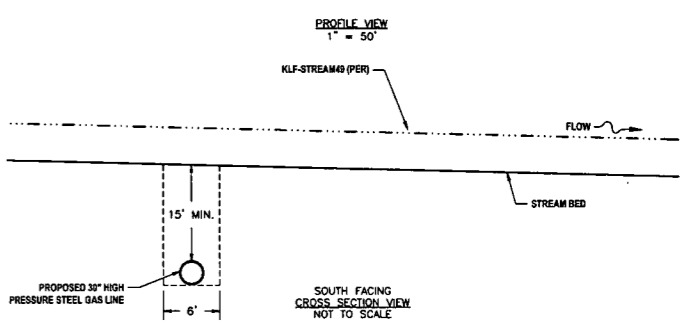
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED PERMANENT EASEMENT
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION**
- STREAM CLASSIFICATION: INTERMITTENT  
 STREAM WIDTH: 4.0'  
 PROPOSED METHOD OF CONSTRUCTION: HORIZONTAL DIRECTIONAL BORE
- REFERENCES:**
- LAT: 39°17'18.15" N  
 LONG: 80°42'48.24" W  
 SHEET REF: SHEET 20
- NOTES:**
1. CONTRACTOR TO MAINTAIN 15' DEPTH AT STREAM OR WETLAND CROSSING.



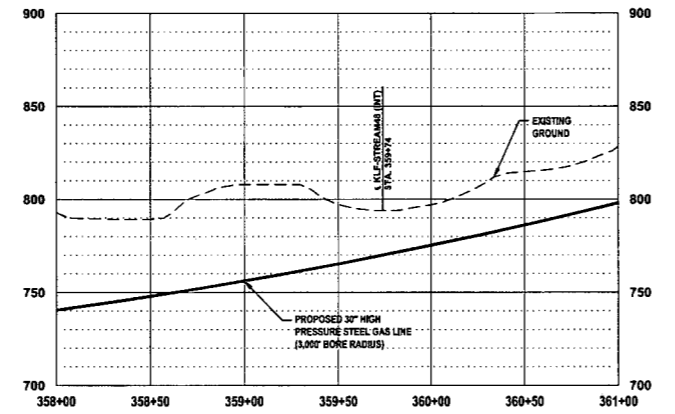
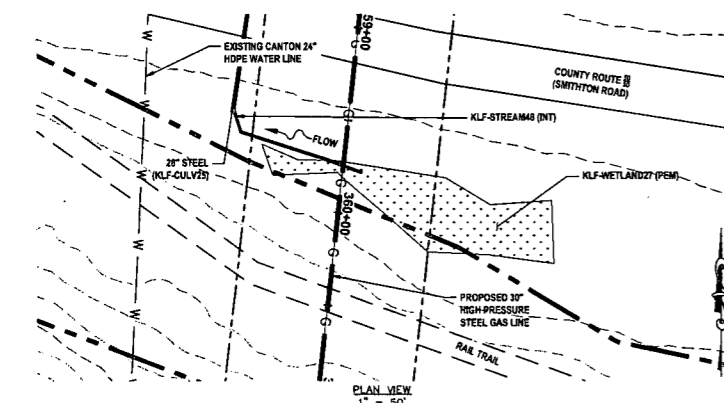
### HDD BORE CROSSING 2 KLF-STREAM49 (PER)



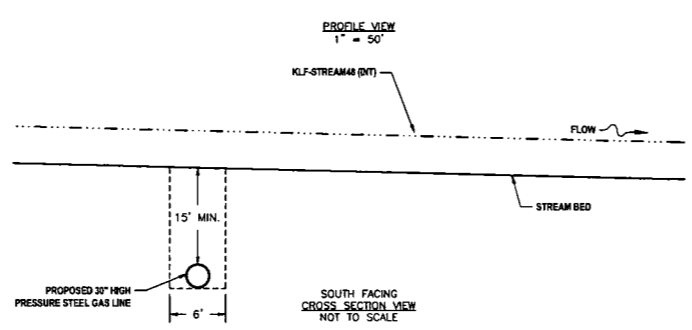
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED PERMANENT EASEMENT
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION**
- STREAM CLASSIFICATION: PERENNIAL  
 STREAM WIDTH: 60.0'  
 PROPOSED METHOD OF CONSTRUCTION: HORIZONTAL DIRECTIONAL BORE
- REFERENCES:**
- LAT: 39°17'10.18" N  
 LONG: 80°42'48.12" W  
 SHEET REF: SHEET 20
- NOTES:**
1. CONTRACTOR TO MAINTAIN 15' DEPTH AT STREAM OR WETLAND CROSSING.



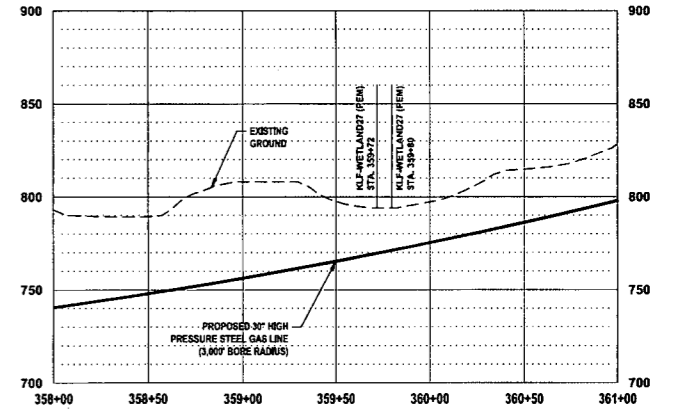
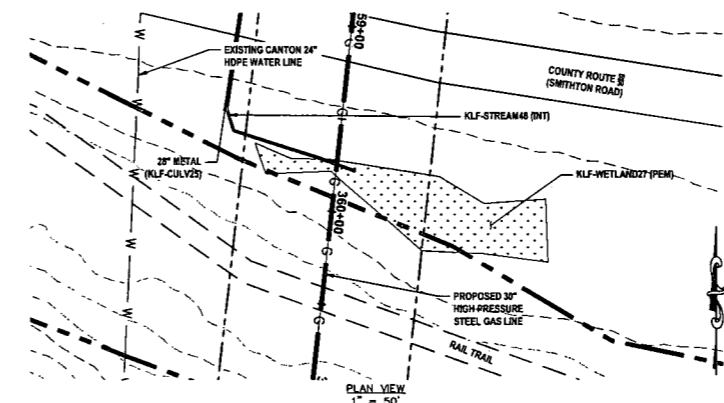
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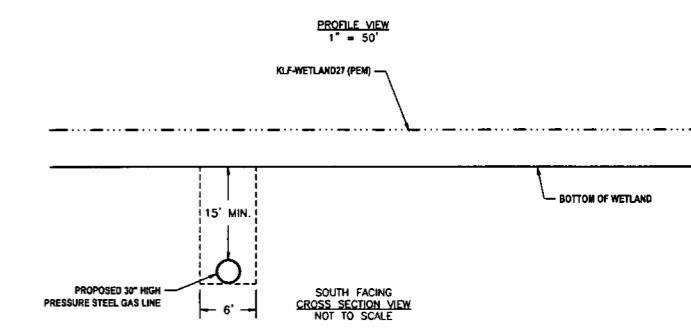
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED PERMANENT EASEMENT
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION**
- STREAM CLASSIFICATION: INTERMITTENT  
 STREAM WIDTH: 4.0'  
 PROPOSED METHOD OF CONSTRUCTION: HORIZONTAL DIRECTIONAL BORE
- REFERENCES:**
- LAT: 39°17'08.85" N  
 LONG: 80°42'48.24" W  
 SHEET REF: SHEET 20
- NOTES:**
1. CONTRACTOR TO MAINTAIN 15' DEPTH AT STREAM OR WETLAND CROSSING.



### HDD BORE CROSSING 4 KLF-WETLAND27 (PEM)



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED PERMANENT EASEMENT
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- WETLAND INFORMATION**
- WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
 PROPOSED METHOD OF CONSTRUCTION: HORIZONTAL DIRECTIONAL BORE
- REFERENCES:**
- LAT: 39°17'08.85" N  
 LONG: 80°42'48.24" W  
 SHEET REF: SHEET 20
- NOTES:**
1. CONTRACTOR TO MAINTAIN 15' DEPTH AT STREAM OR WETLAND CROSSING.



# THRASHER

# IFP

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

#### SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

#### SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

#### GENERAL INFORMATION

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig  
 PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
 HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
 VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924

SCALE: AS SHOWN

DRAWN BY: JDA, P.A. (TTC)

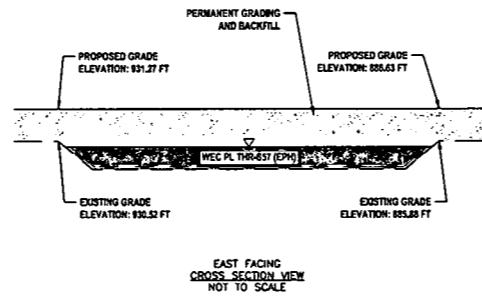
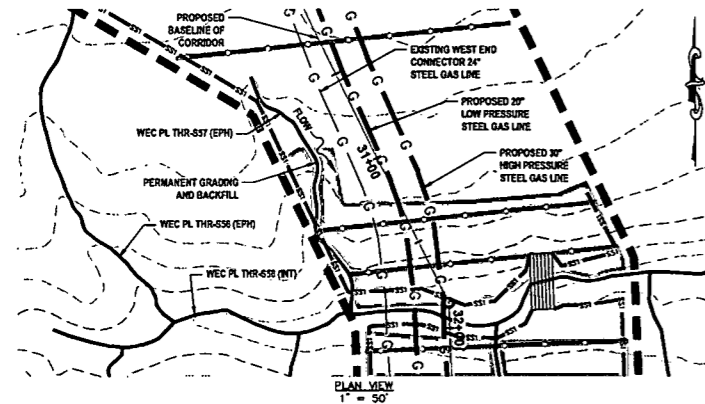
CHECKED: AR, JRI (TTC)

SHEET 52

SHT. NAME: 050-6321\STRICKLING\S&WC13 [REV. 2]

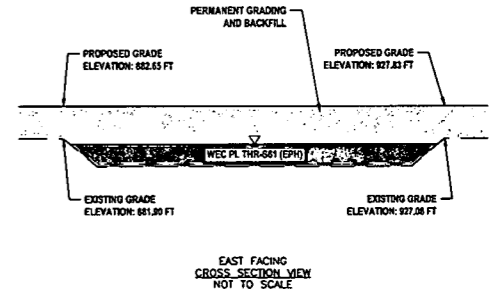
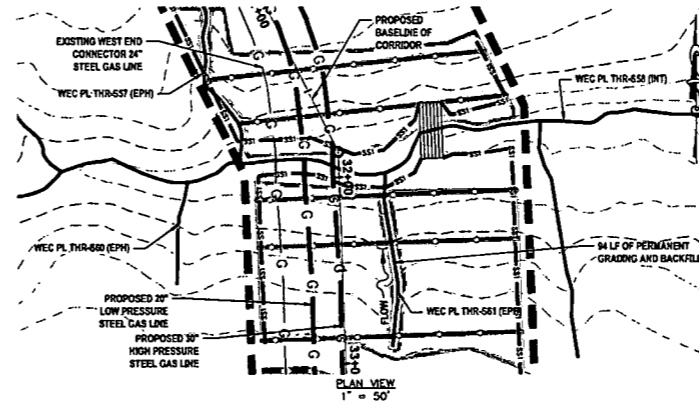


**PERMANENT FILL IMPACT 1  
@ WEC PL THR-S57 (EPH)**



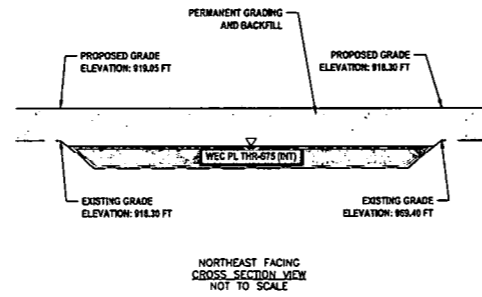
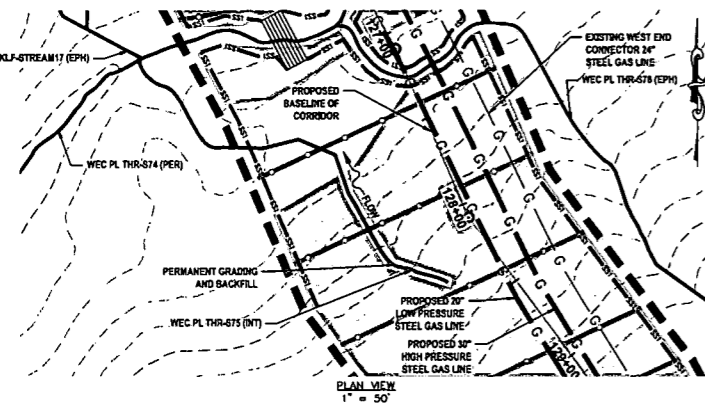
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 2.5'  
 PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
 LAT: 39°18'47.89" N  
 LONG: 80°47'33.84" W  
 SHEET REF: SHEET 06
- NOTES:**  
 1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
 2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 2  
@ WEC PL THR-S61 (EPH)**



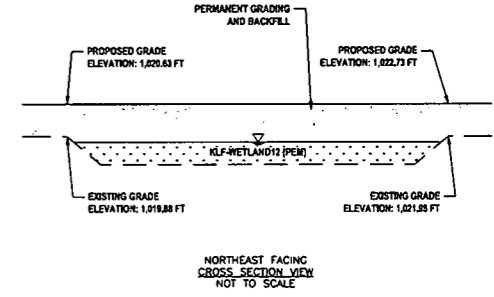
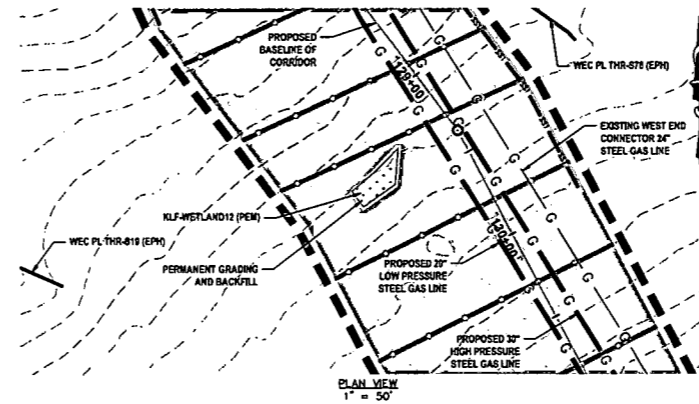
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 4.5'  
 PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
 LAT: 39°19'48.36" N  
 LONG: 80°47'39.64" W  
 SHEET REF: SHEET 06
- NOTES:**  
 1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
 2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 3  
@ WEC PL THR-S75 (INT)**



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
 STREAM CLASSIFICATION: INTERMITTENT  
 STREAM WIDTH: 5.0'  
 PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
 LAT: 39°18'40.57" N  
 LONG: 80°45'53.84" W  
 SHEET REF: SHEET 10
- NOTES:**  
 1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
 2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 4  
@ KLF-WETLAND12 (PEM)**



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- WETLAND INFORMATION:**  
 WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
 WETLAND WIDTH: N/A  
 PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
 LAT: 39°18'39.26" N  
 LONG: 80°45'52.50" W  
 SHEET REF: SHEET 10
- NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

USER: robert.f.lucsko  
 PLOT DATE/TIME: 6/20/2017 2:29 PM  
 LAYOUT TAB: SWWC14  
 CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg

**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
1.	PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig. PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig.	
2.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	
3.	FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	
4.	ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	
5.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.	
6.	FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

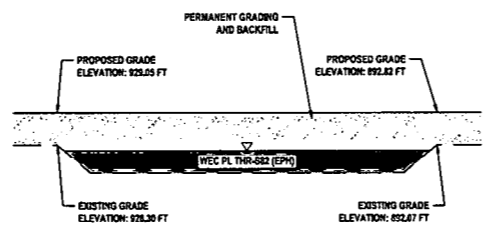
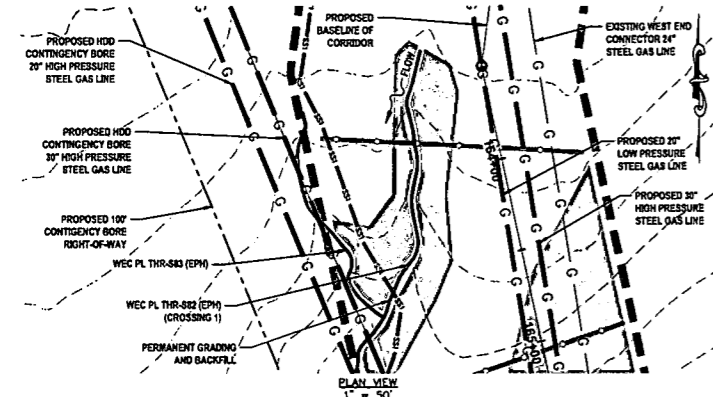
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924  
 SCALE: AS SHOWN  
 DRAWN BY: JDA, RJA (TTC)  
 CHECKED: AR, JRN (TTC)

SHEET 53

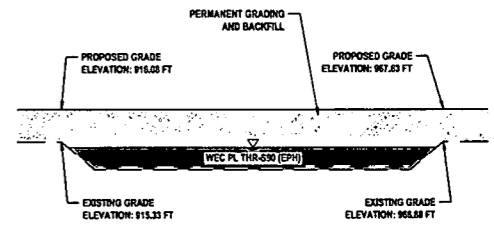
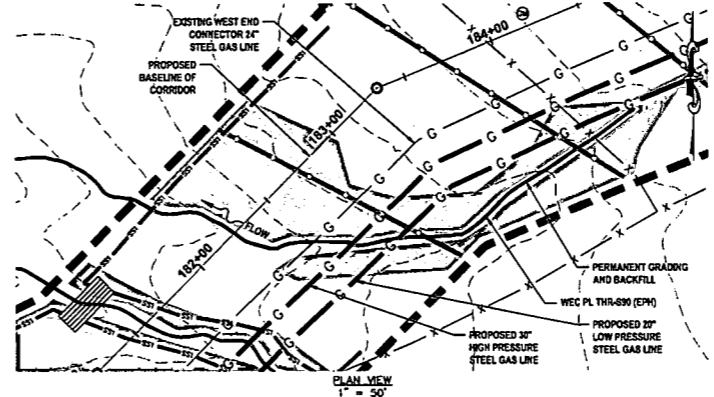
SHT. NAME: 050-6321\STRICKLING\SWWC14 REV. 2

**PERMANENT FILL IMPACT 5  
@ WEC PL THR-S82 (EPH) (CROSSING 1)**



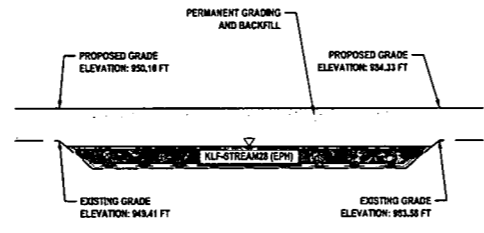
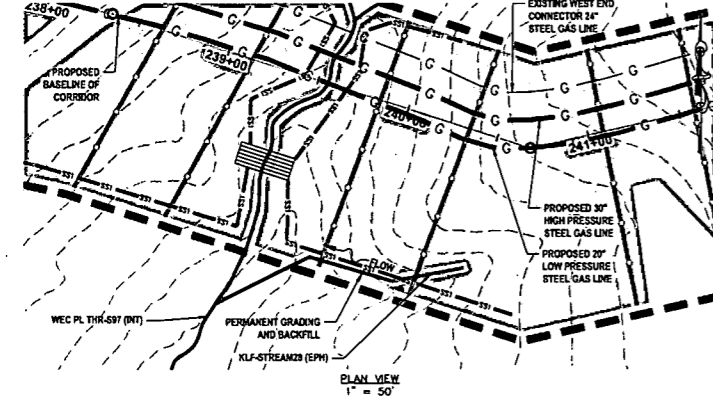
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 - SALT SAVER (DSRF-P1)
  - SS2 - SALT SAVER (DSRF-P2)
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°18'20.84" N  
LONG: 80°42'28.84" W  
SHEET REF: SHEET 11
- NOTES:**  
1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 6  
@ WEC PL THR-S90 (EPH)**



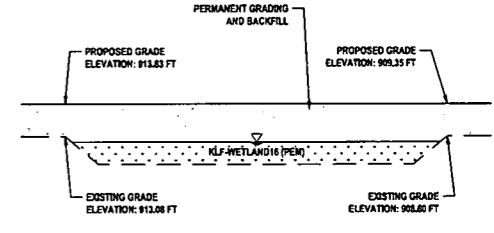
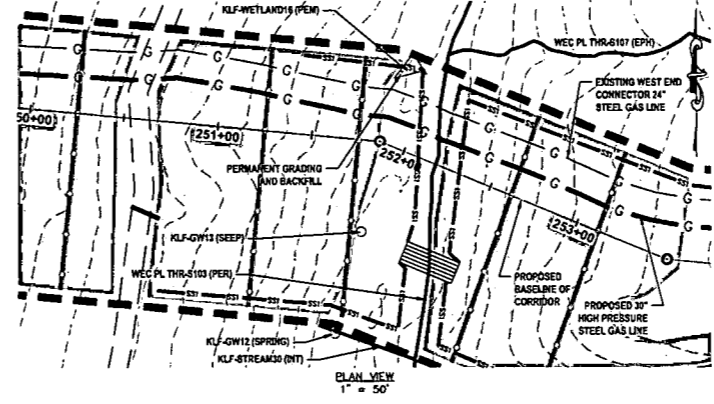
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 - SALT SAVER (DSRF-P1)
  - SS2 - SALT SAVER (DSRF-P2)
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 2.5'  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°18'12.45" N  
LONG: 80°42'08.80" W  
SHEET REF: SHEET 12
- NOTES:**  
1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 7  
@ KLF-STREAM28 (EPH)**



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 - SALT SAVER (DSRF-P1)
  - SS2 - SALT SAVER (DSRF-P2)
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°18'17.76" N  
LONG: 80°44'03.08" W  
SHEET REF: SHEET 14
- NOTES:**  
1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 8  
@ KLF-WETLAND16 (PEM)**



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 - SALT SAVER (DSRF-P1)
  - SS2 - SALT SAVER (DSRF-P2)
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
WETLAND WIDTH: N/A  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°18'18.78" N  
LONG: 80°43'47.84" W  
SHEET REF: SHEET 15
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.



**IFP**  
ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
1.	PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig	
2.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	
3.	FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	
4.	ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	
5.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS. REFER TO GRAPHIC SCALE.	
6.	FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

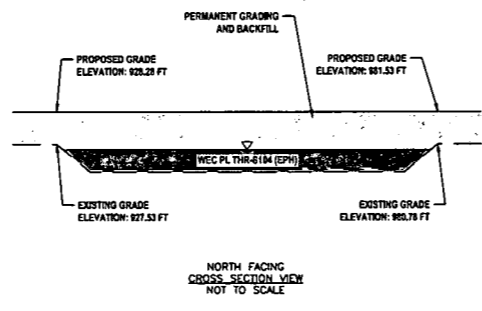
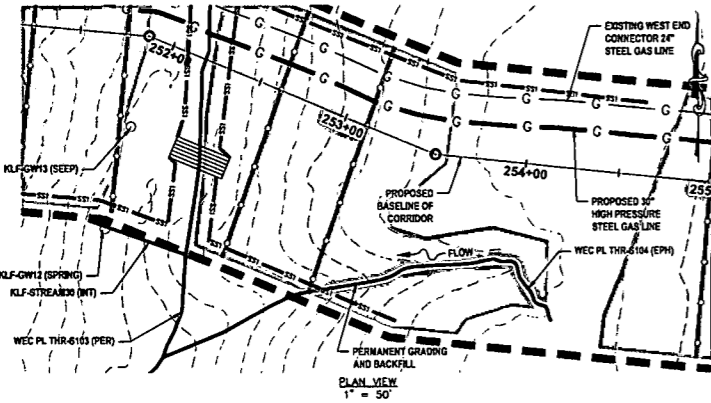
**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**  
PROPOSED 30" HIGH PRESSURE STEEL GAS  
LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RLA (TTC)  
CHECKED: AR, JRI (TTC)

SHEET 54  
SHT. NAME: 050-6321\STRICKLING\S&WC15  
REV. 2

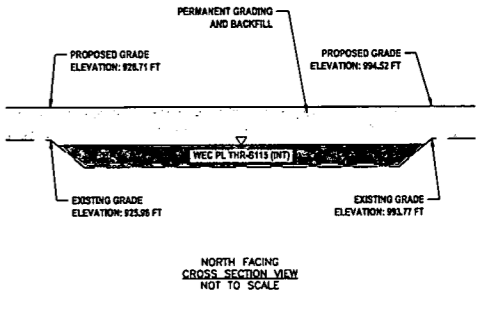
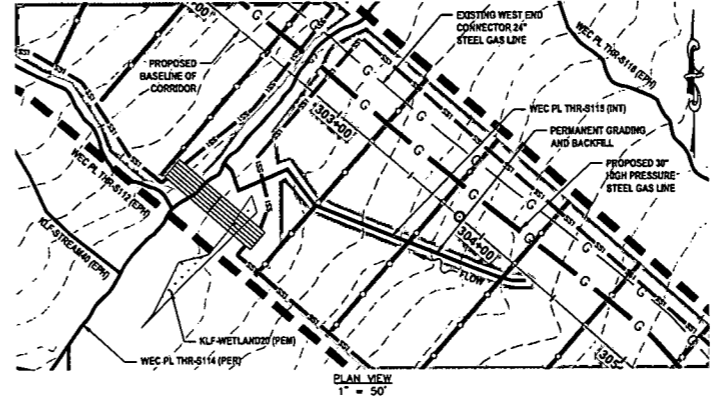
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PLOT DATE/TIME: 6/20/2017 2:37 PM  
USER: robert.j.lucko

**PERMANENT FILL IMPACT 9  
@ WEC PL THR-S104 (EPH)**



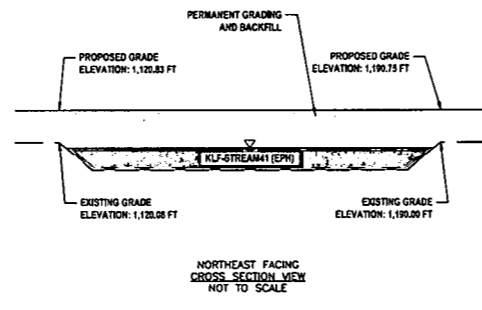
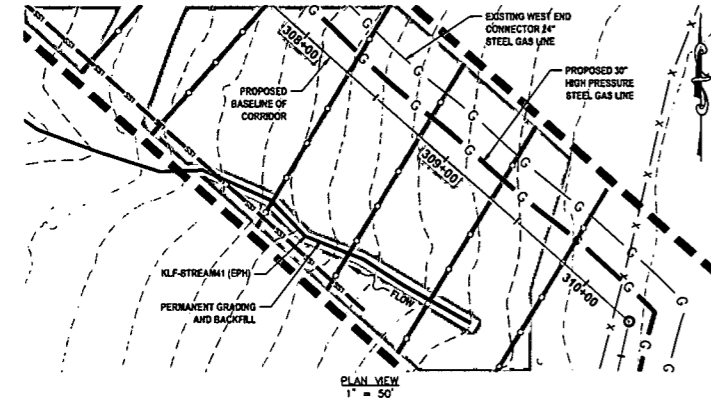
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SALT SAVER BSRF-P1
  - SS2 SALT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 2.0'  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°18'17.18" N  
LONG: 80°43'46.17" W  
SHEET REF: SHEET 15
- NOTES:**  
1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 10  
@ WEC PL THR-S115 (INT)**



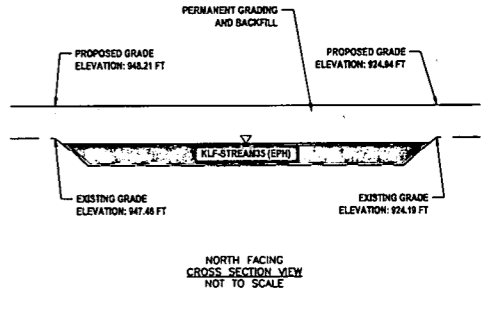
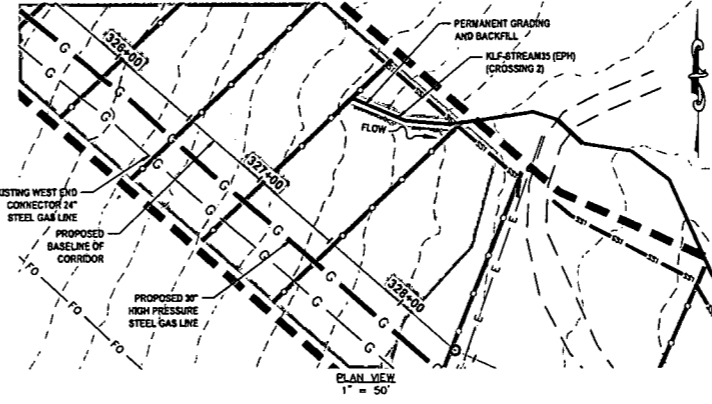
- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SALT SAVER BSRF-P1
  - SS2 SALT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 4.0'  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°17'20.70" N  
LONG: 80°43'20.23" W  
SHEET REF: SHEET 17
- NOTES:**  
1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 11  
@ KLF-STREAM41 (EPH)**



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SALT SAVER BSRF-P1
  - SS2 SALT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°17'33.87" N  
LONG: 80°43'13.34" W  
SHEET REF: SHEET 17
- NOTES:**  
1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 12  
@ KLF-STREAM35 (EPH) (CROSSING 2)**



- LEGEND**
- PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SALT SAVER BSRF-P1
  - SS2 SALT SAVER BSRF-P2
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 5.0'  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°17'23.05" N  
LONG: 80°43'00.78" W  
SHEET REF: SHEET 18
- NOTES:**  
1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
1.	PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig	
2.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	
3.	FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	
4.	ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	
5.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34") FOR REDUCTIONS. REFER TO GRAPHIC SCALE.	
6.	FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

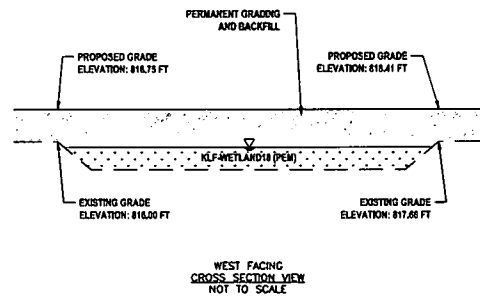
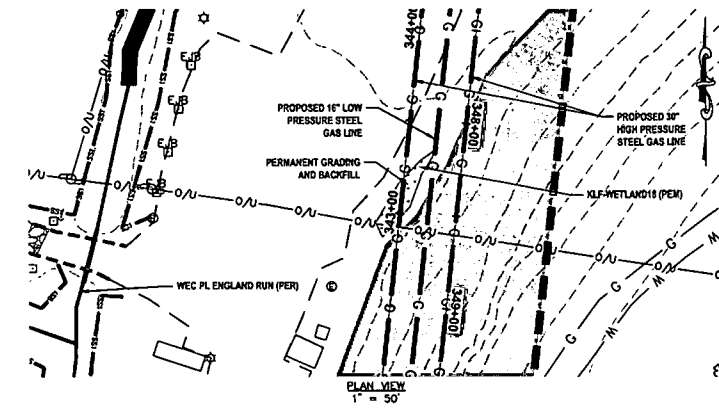
DATE: 6/07/2017  
SCALE: AS SHOWN  
DRAWN BY: JDL, RLB (TTO)  
CHECKED: AR, JRN (TTO)

SHEET 55

SHT. NAME: 050-6321\STRICKLING\S&WC16 REV. 2

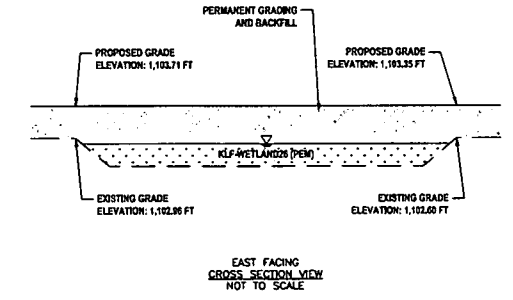
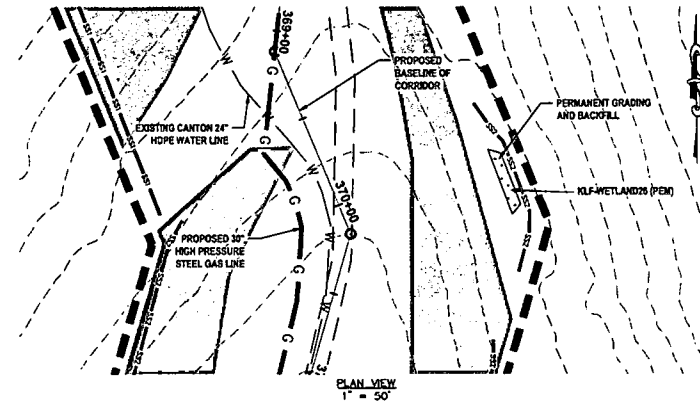
USER: robert.j.lucsko  
 PLOT DATE/TIME: 6/20/2017 2:48 PM  
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 CAD FILE: R:\050-6321-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1.dwg

**PERMANENT FILL IMPACT 13  
@ KLF-WETLAND18 (PEM)**



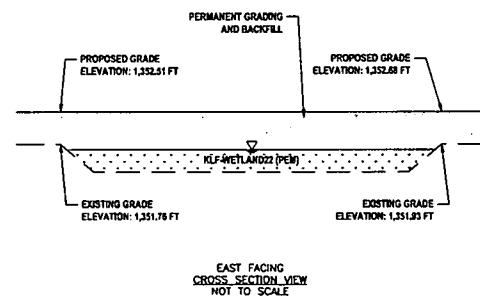
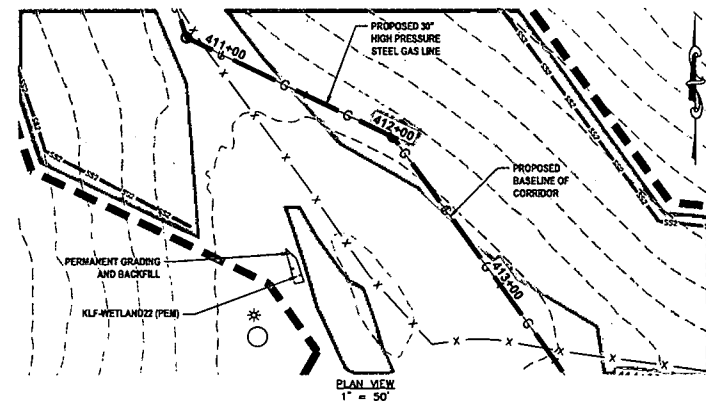
- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SALT SAVER (BSRF-P1)
  - SS2 SALT SAVER (BSRF-P2)
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
WETLAND WIDTH: N/A  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°17'20.04" N  
LONG: 82°42'32.24" W  
SHEET REF: SHEET 18 & 20
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 14  
@ KLF-WETLAND26 (PEM)**



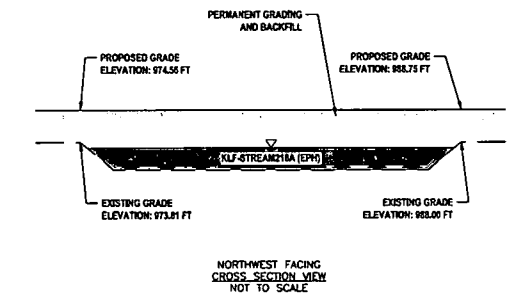
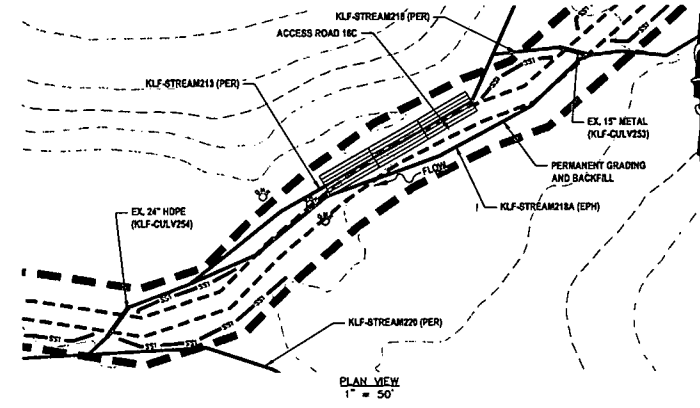
- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SALT SAVER (BSRF-P1)
  - SS2 SALT SAVER (BSRF-P2)
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
WETLAND WIDTH: N/A  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°16'36.99" N  
LONG: 82°42'12.87" W  
SHEET REF: SHEET 21
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 15  
@ KLF-WETLAND22 (PEM)**



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SALT SAVER (BSRF-P1)
  - SS2 SALT SAVER (BSRF-P2)
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT  
WETLAND WIDTH: N/A  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°16'28.84" N  
LONG: 82°42'35.34" W  
SHEET REF: SHEET 23
- NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

**PERMANENT FILL IMPACT 16  
@ KLF-STREAM218A (EPH)**



- LEGEND**
- ▲ PERMANENT WATER BAR (PROFILE)
  - EARTH TRENCH BREAKER (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SALT SAVER (BSRF-P1)
  - SS2 SALT SAVER (BSRF-P2)
  - ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - EXISTING STEEL GAS LINE
  - 21+00 BASELINE OF PROPOSED CORRIDOR WITH STATIONING
- STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'  
PROPOSED METHOD OF CONSTRUCTION: PERMANENT FILL
- REFERENCES:**  
LAT: 39°16'18.84" N  
LONG: 82°42'15.68" W  
SHEET REF: SHEET 36
- NOTES:**  
1. PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.  
2. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

USER: robert.j.lucsko  
PLOT DATE/TIME: 6/20/2017 2:54 PM  
LAYOUT FILE: S:\PROJECTS\050-6321-NEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 1-6.dwg



**IFP**  
ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
1.	PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig	
2.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	
3.	FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	
4.	ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	
5.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.	
6.	FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

**Antero**  
Midstream Partners LP

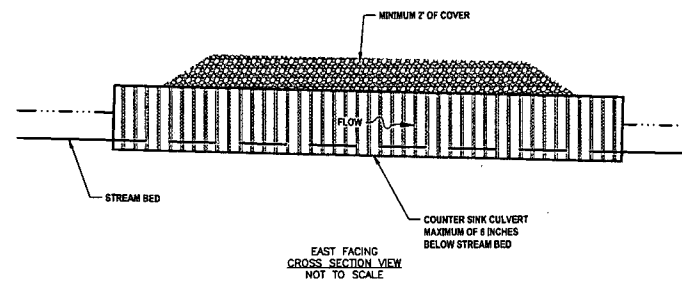
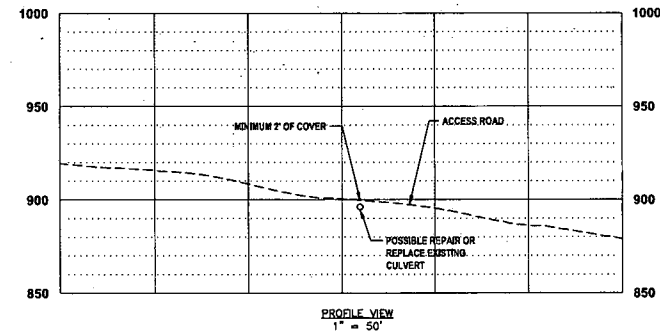
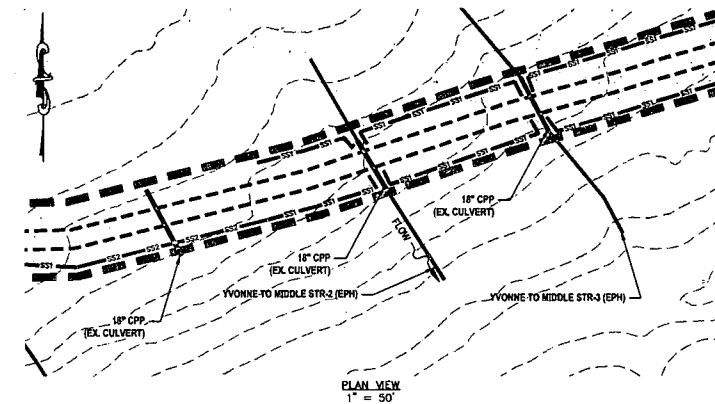
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIEGER COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924  
SCALE: AS SHOWN  
DRAWN BY: JEL, RAL (TTS)  
CHECKED: AR, JRN (TTS)

SHEET 56  
SHT. NAME: 050-6321\STRICKLING\S&WC17 REV. 2

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT @ YVONNE TO MIDDLE STR-2 (EPH)**



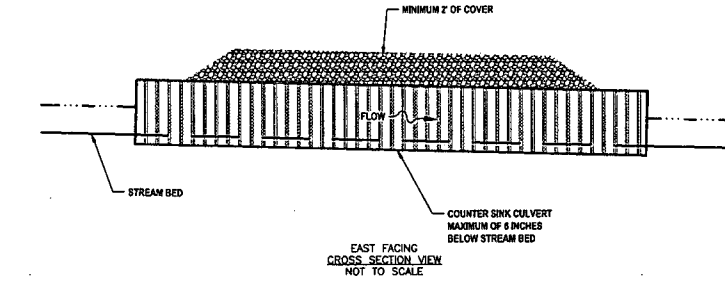
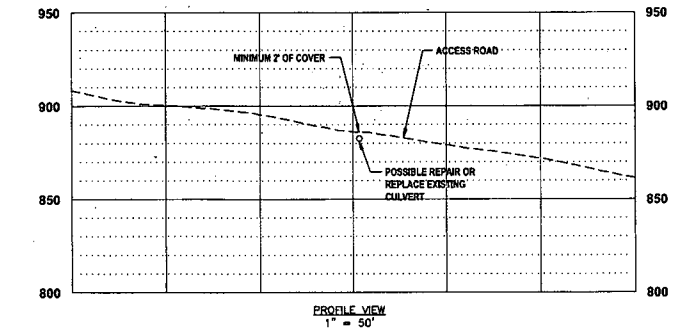
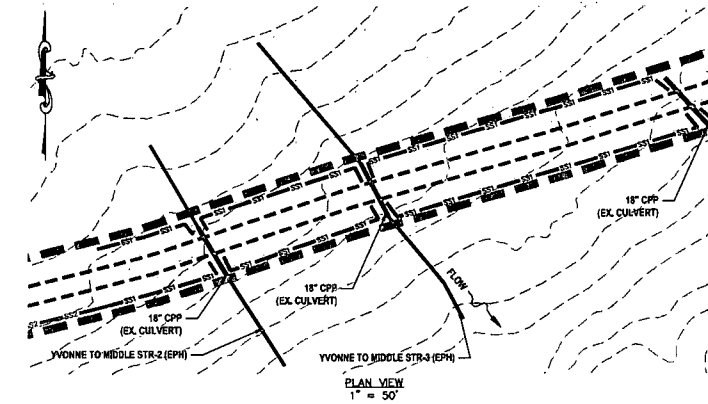
- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 § OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'

**REFERENCES:**  
LAT: 39°18'49.18" N  
LONG: 80°48'51.09" W  
SHEET REF: SHEET 27

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT @ YVONNE TO MIDDLE STR-3 (EPH)**



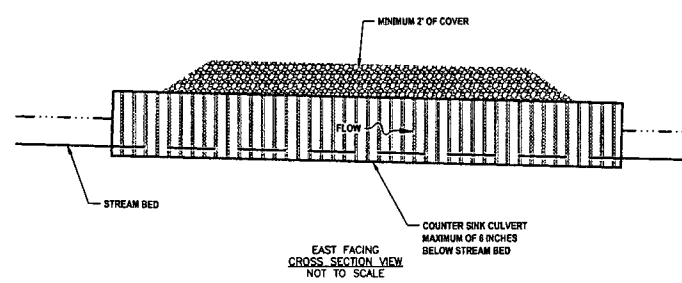
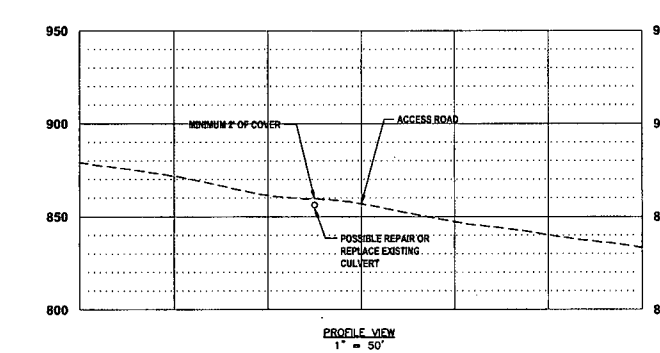
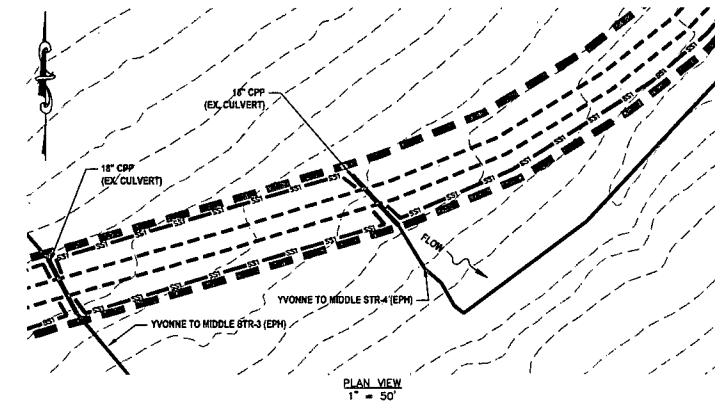
- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 § OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 2.0'

**REFERENCES:**  
LAT: 39°18'49.48" N  
LONG: 80°48'49.94" W  
SHEET REF: SHEET 27

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT @ YVONNE TO MIDDLE STR-4 (EPH)**



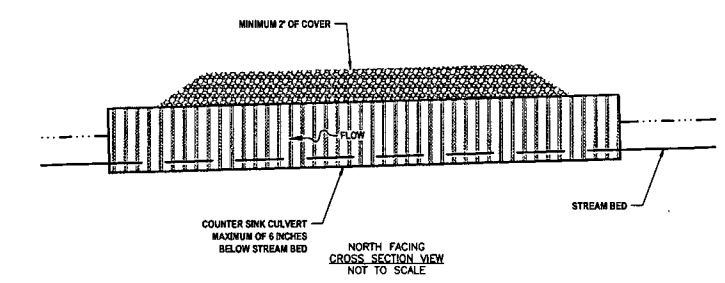
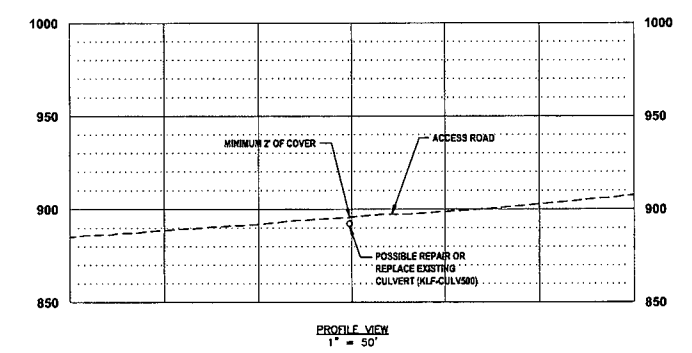
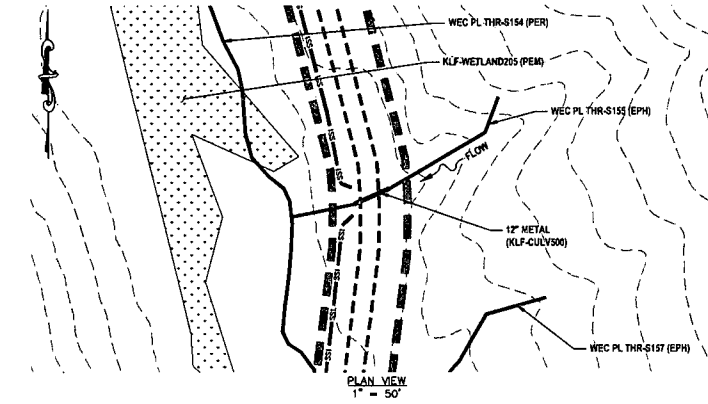
- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 § OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 2.0'

**REFERENCES:**  
LAT: 39°18'48.99" N  
LONG: 80°48'47.87" W  
SHEET REF: SHEET 27

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV500) @ WEC PL THR-S155 (EPH)**



- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 § OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'

**REFERENCES:**  
LAT: 39°18'09.34" N  
LONG: 80°48'52.22" W  
SHEET REF: SHEET 28

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JUL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	R.A.

- GENERAL INFORMATION**
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
  - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
  - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
  - ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
  - THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
  - FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

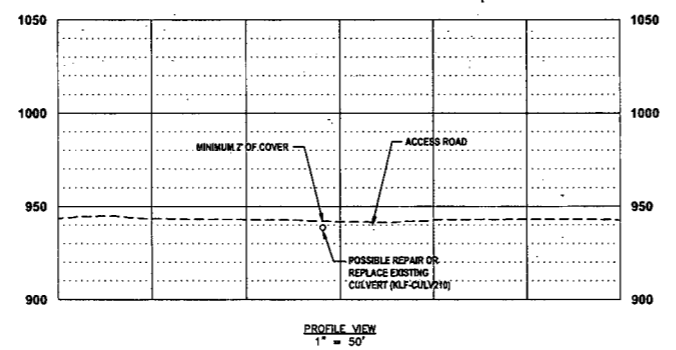
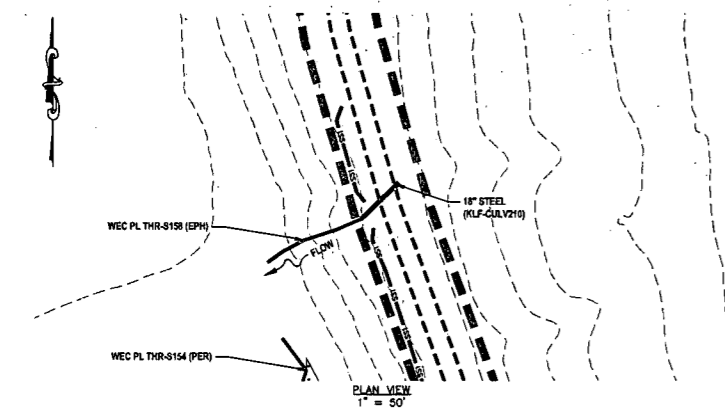
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924  
SCALE: AS SHOWN  
DRAWN BY: JUL R.A. (TTO)  
CHECKED: AR, JRN (TTO)

SHEET 57  
SHT. NAME: 050-6321\STRICKLING\S&WC18 REV. 2

LAYOUT TAB: S&WC18  
CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg  
PLOT DATE/TIME: 6/20/2017 11:13 AM  
USER: robert.j.luczko

**CULVERT REPARATION / REPLACEMENT**  
**EXISTING CULVERT (KLF-CULV210) @ WEC PL THR-S158 (EPH)**



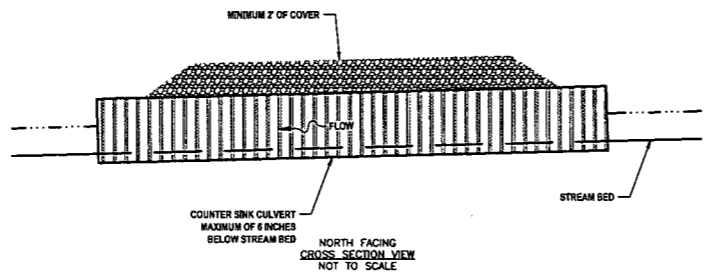
**LEGEND**

- EXISTING CULVERT (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- DELINEATED STREAM
- ▨ DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING GAS LINE
- 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
- EXISTING CULVERT

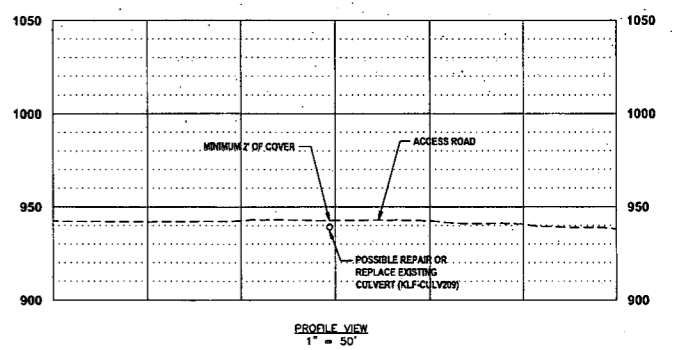
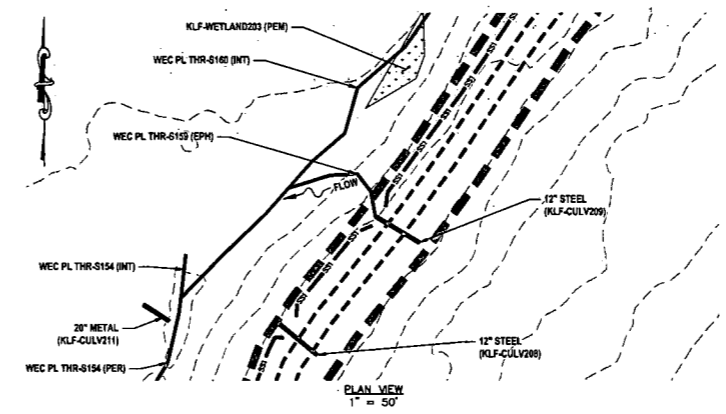
**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 5.0'

**REFERENCES:**  
 LAT: 37°18'15.83" N  
 LONG: 80°46'04.92" W  
 SHEET REF: SHEET 28

**NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
 3. CULVERT SHALL MEET ALL APPLICABLE ASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT**  
**EXISTING CULVERT (KLF-CULV209) @ WEC PL THR-S159 (EPH)**



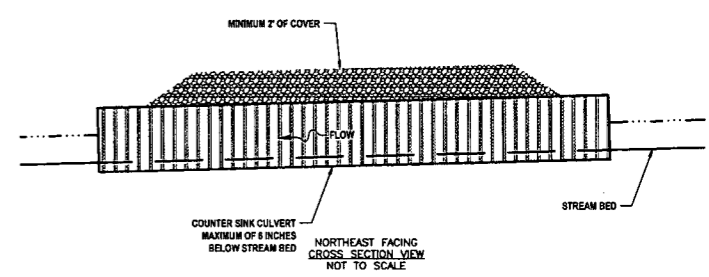
**LEGEND**

- EXISTING CULVERT (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- DELINEATED STREAM
- ▨ DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING GAS LINE
- 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
- EXISTING CULVERT

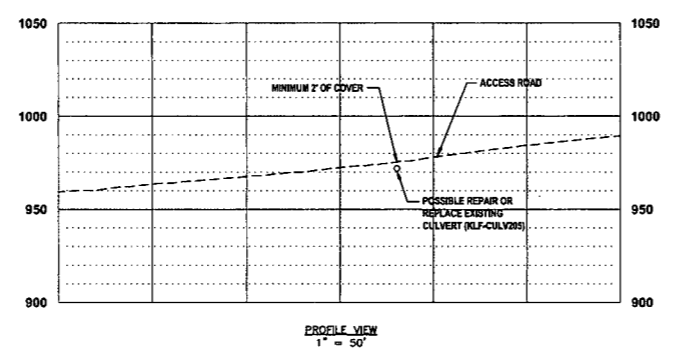
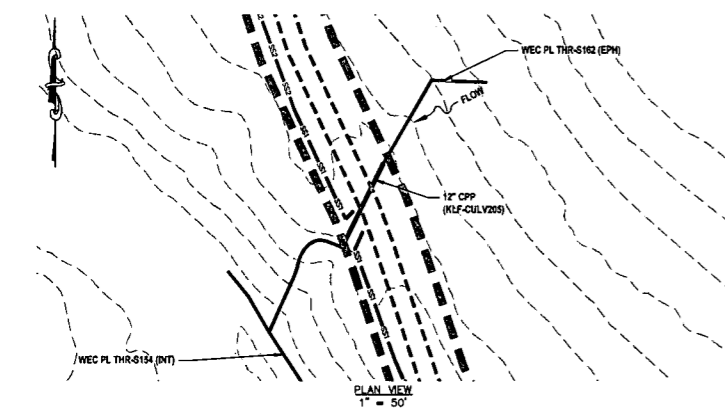
**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 4.0'

**REFERENCES:**  
 LAT: 37°19'18.60" N  
 LONG: 80°46'04.43" W  
 SHEET REF: SHEET 28

**NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
 3. CULVERT SHALL MEET ALL APPLICABLE ASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT**  
**EXISTING CULVERT (KLF-CULV205) @ WEC PL THR-S162 (EPH)**



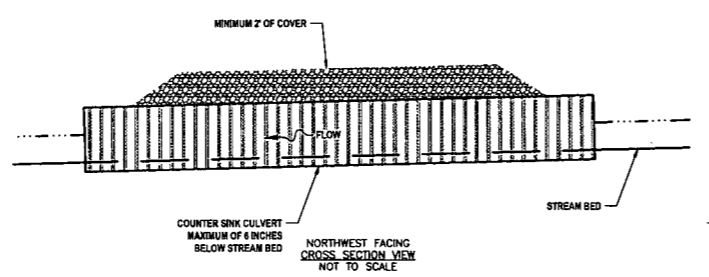
**LEGEND**

- EXISTING CULVERT (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- DELINEATED STREAM
- ▨ DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING GAS LINE
- 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
- EXISTING CULVERT

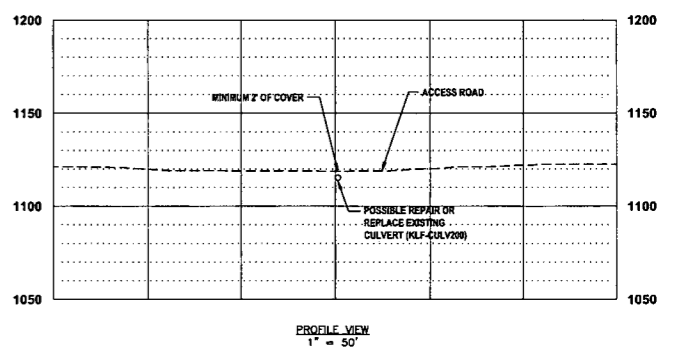
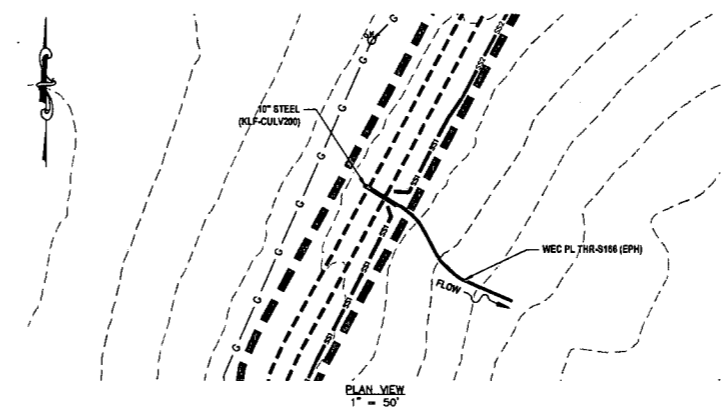
**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 5.0'

**REFERENCES:**  
 LAT: 37°19'23.99" N  
 LONG: 80°46'08.04" W  
 SHEET REF: SHEET 28

**NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
 3. CULVERT SHALL MEET ALL APPLICABLE ASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT**  
**EXISTING CULVERT (KLF-CULV200) @ WEC PL THR-S166 (EPH)**



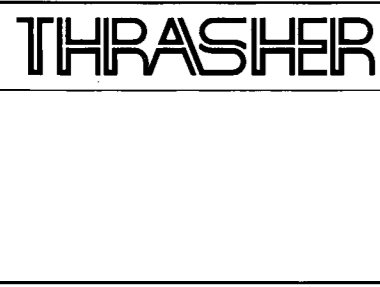
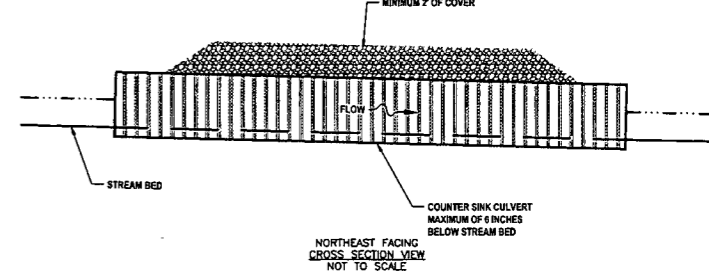
**LEGEND**

- EXISTING CULVERT (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- DELINEATED STREAM
- ▨ DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING GAS LINE
- 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
- EXISTING CULVERT

**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: EPHEMERAL  
 STREAM WIDTH: 3.0'

**REFERENCES:**  
 LAT: 37°19'34.07" N  
 LONG: 80°46'27.50" W  
 SHEET REF: SHEET 28

**NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
 3. CULVERT SHALL MEET ALL APPLICABLE ASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**IFP**  
 ISSUED FOR PERMITTING  
 DATE: 06/07/2017  
 AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

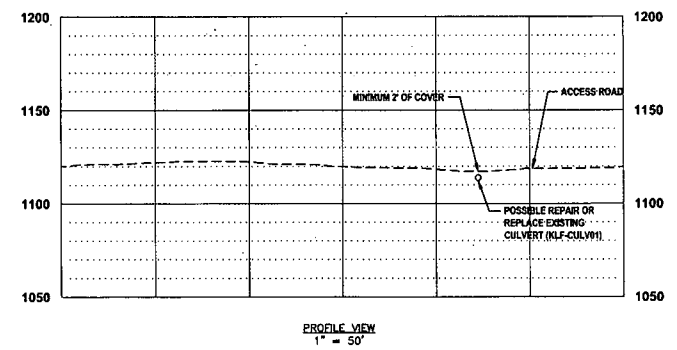
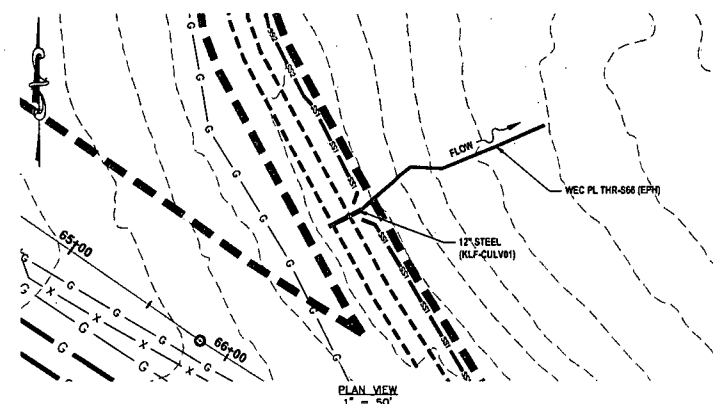
GENERAL INFORMATION		
1.	PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig	
2.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	
3.	FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	
4.	ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	
5.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.	
6.	FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

**Antero**  
 Midstream Partners LP  
**STRICKLING PIPELINE**  
**STREAM & WETLAND CROSSINGS**  
 PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924  
 SCALE: AS SHOWN  
 DRAWN BY: JAL, R.L. (TTS)  
 CHECKED: AR, BRN (TTS) SHEET 58  
 SHT. NAME: 050-6321\STRICKLING\S&WC19 REV. 2

LAYOUT TAB: S&WC19  
 CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg  
 PLOT DATE/TIME: 6/20/2017 11:21 AM  
 USER: robert.j.luczko

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV01) @ WEC PL THR-S66 (EPH)**

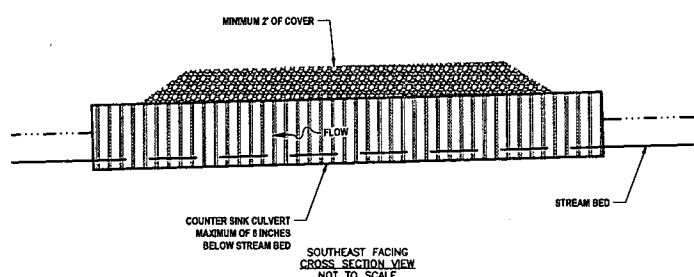


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER (SRF-P1)
  - SS2 SILT SAVER (SRF-P2)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 E. OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

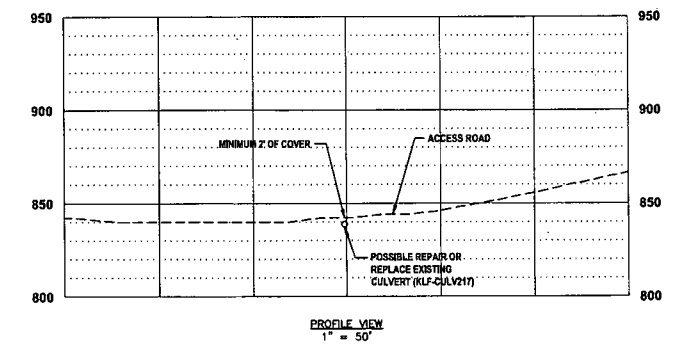
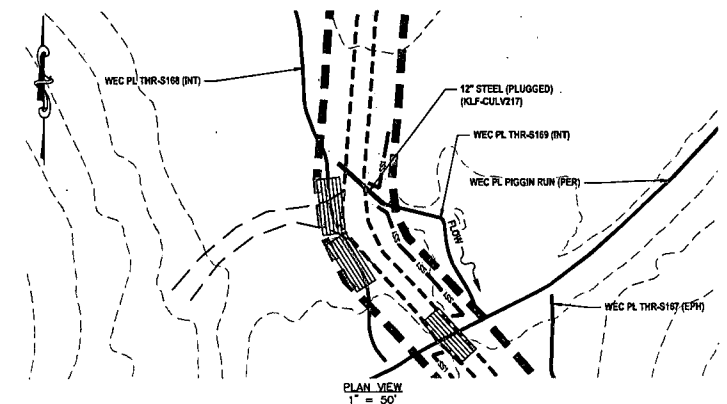
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'

**REFERENCES:**  
LAT: 39°18'31.65" N  
LONG: 80°48'27.51" W  
SHEET REF: SHEET 28

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE MSHTD AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV217)(PLUGGED) @ WEC PL THR-S169 (INT)**

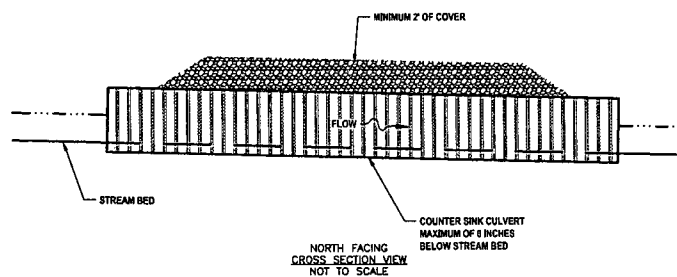


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER (SRF-P1)
  - SS2 SILT SAVER (SRF-P2)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 E. OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

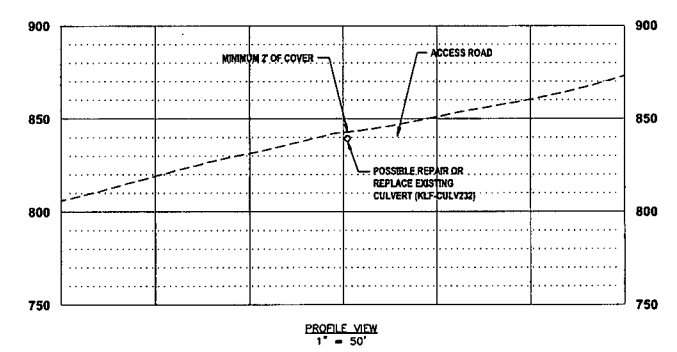
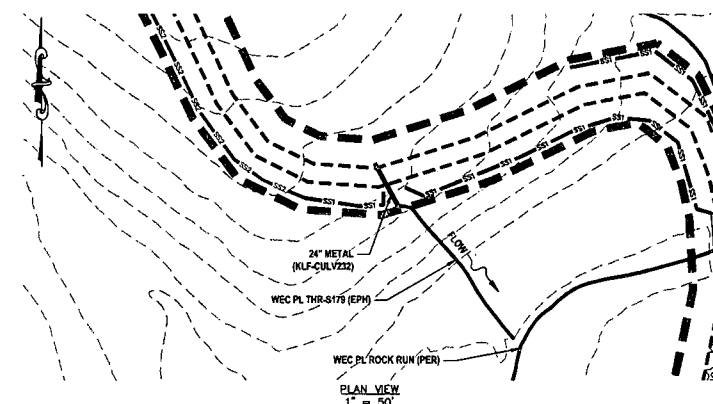
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 4.0'

**REFERENCES:**  
LAT: 39°18'47.73" N  
LONG: 80°48'11.49" W  
SHEET REF: SHEET 29

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE MSHTD AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV232) @ WEC PL THR-S179 (EPH)**

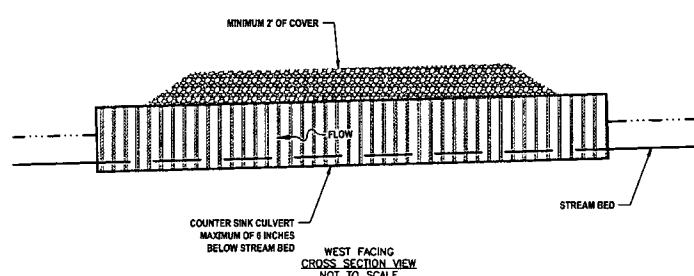


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER (SRF-P1)
  - SS2 SILT SAVER (SRF-P2)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 E. OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

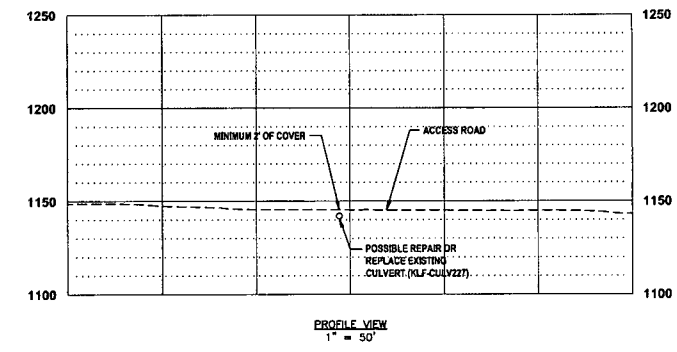
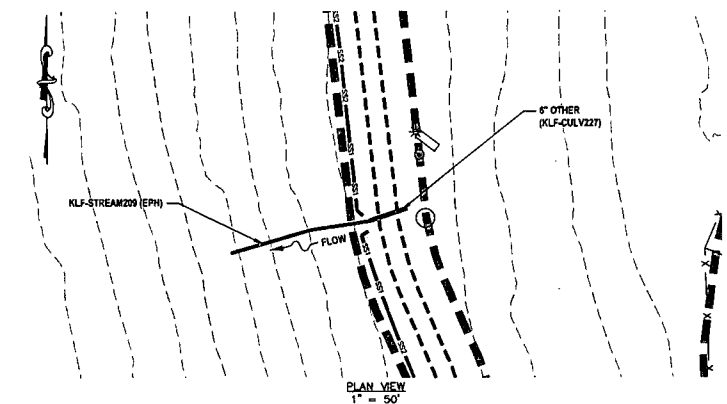
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'

**REFERENCES:**  
LAT: 39°18'12.32" N  
LONG: 80°48'37.25" W  
SHEET REF: SHEET 30

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE MSHTD AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV227) @ KLF-STREAM209 (EPH)**

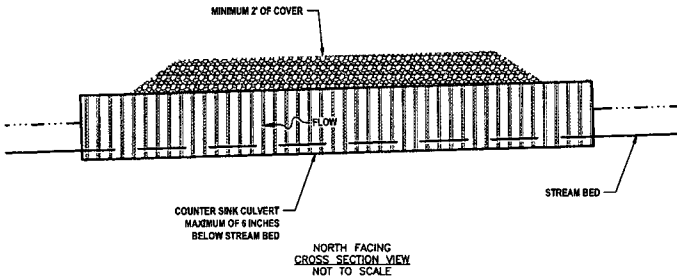


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER (SRF-P1)
  - SS2 SILT SAVER (SRF-P2)
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 E. OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 5.0'

**REFERENCES:**  
LAT: 39°18'32.30" N  
LONG: 80°48'51.43" W  
SHEET REF: SHEET 30

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE MSHTD AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**THRASHER**

**IFP**

ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID128), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

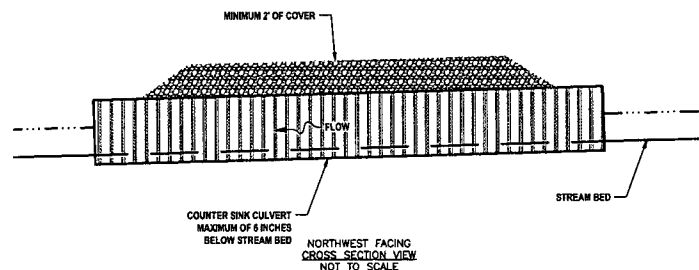
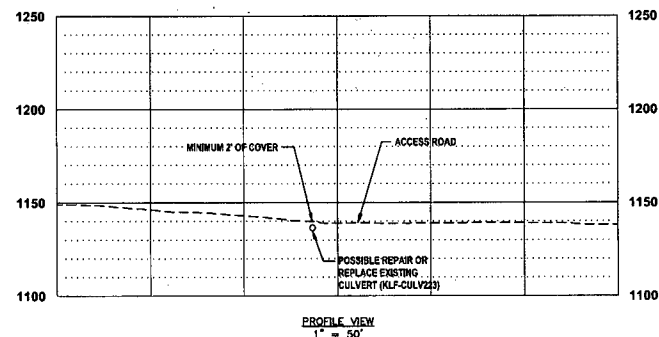
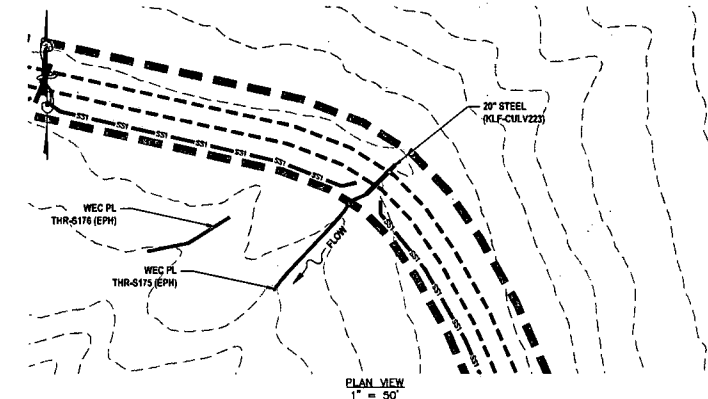
**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**  
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDL, RAL (TIG)  
CHECKED BY: AR, JRI (TIG)

SHEET 59  
SHT. NAME: 050-6321\STRICKLING\S&WC20 REV. 2

LAYOUT TAB: S&WC20  
CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg  
PLOT DATE/TIME: 6/20/2017 11:30 AM  
USER: robert.j.luczko

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV223) @ WEC PL THR-S175 (EPH)**



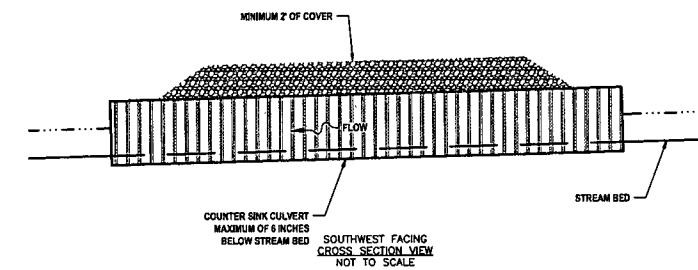
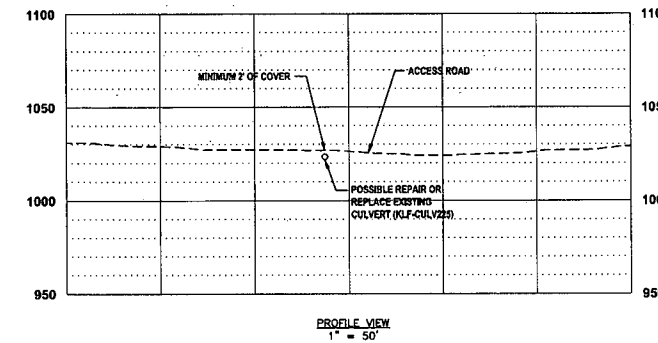
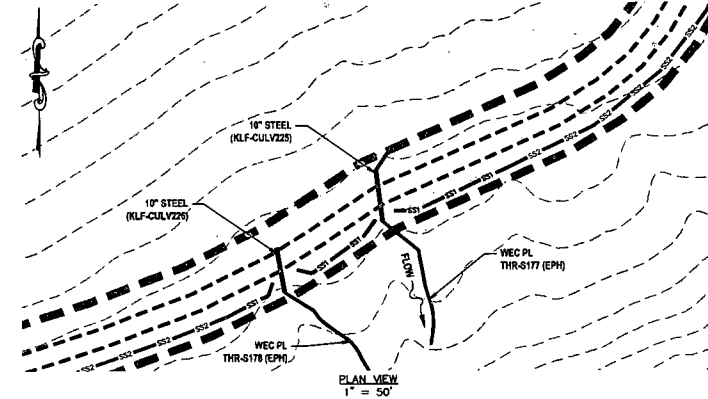
- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'

**REFERENCES:**  
LAT: 39°18'52.23" N  
LONG: 80°43'34.64" W  
SHEET REF: SHEET 30

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV225) @ WEC PL THR-S177 (EPH)**



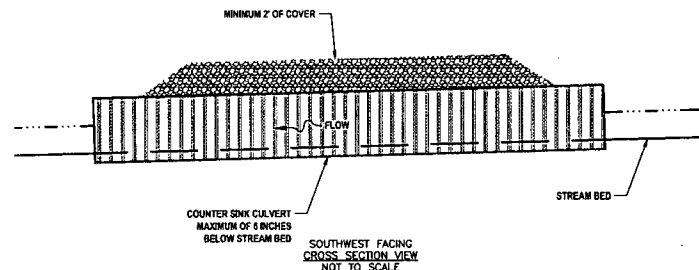
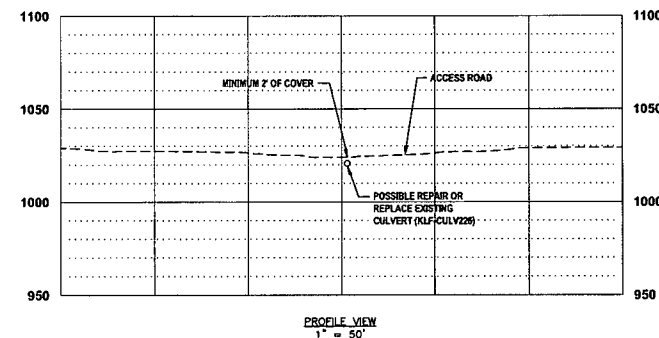
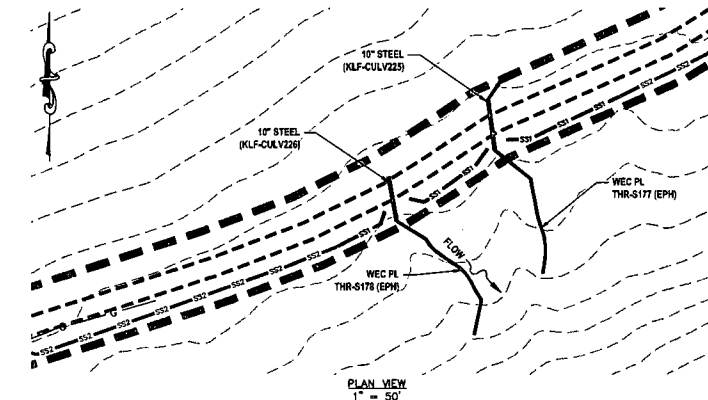
- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'

**REFERENCES:**  
LAT: 39°18'45.48" N  
LONG: 80°43'51.12" W  
SHEET REF: SHEET 30

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV226) @ WEC PL THR-S178 (EPH)**



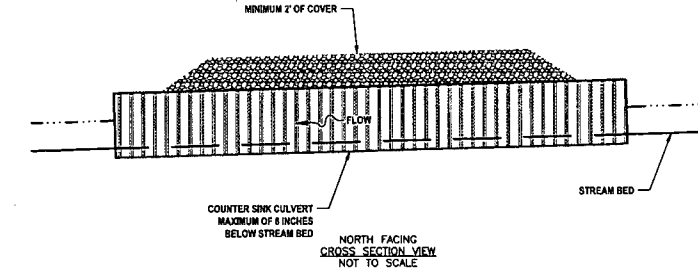
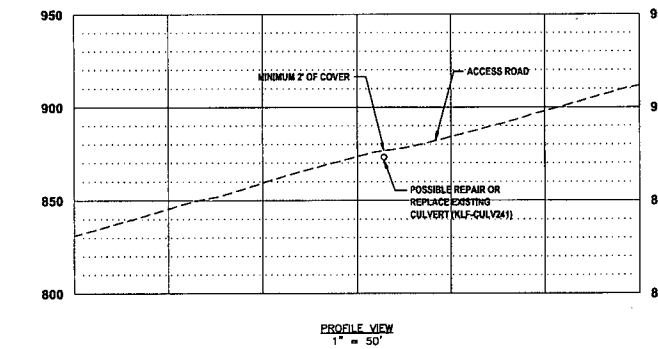
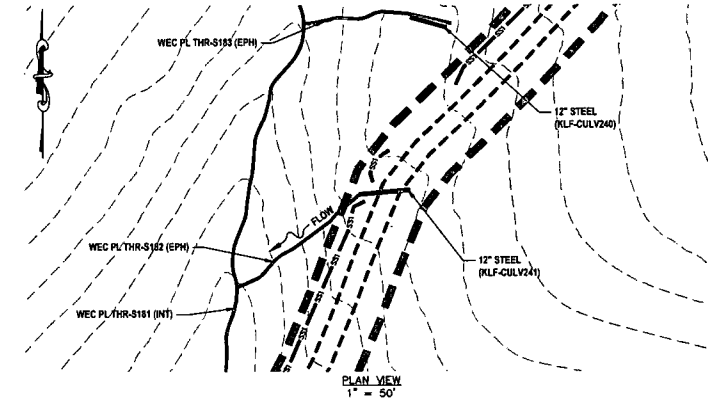
- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 2.5'

**REFERENCES:**  
LAT: 39°18'45.13" N  
LONG: 80°43'51.80" W  
SHEET REF: SHEET 30

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV241) @ WEC PL THR-S182 (EPH)**



- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 5.0'

**REFERENCES:**  
LAT: 39°18'04.36" N  
LONG: 80°43'18.77" W  
SHEET REF: SHEET 31

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 83 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLENFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDA, RA (TIG)  
CHECKED: AR, JRH (TIG)

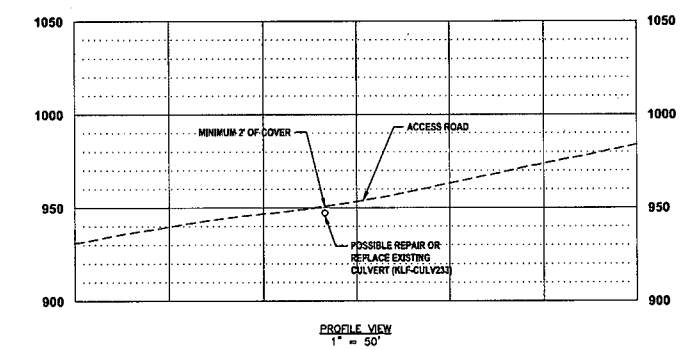
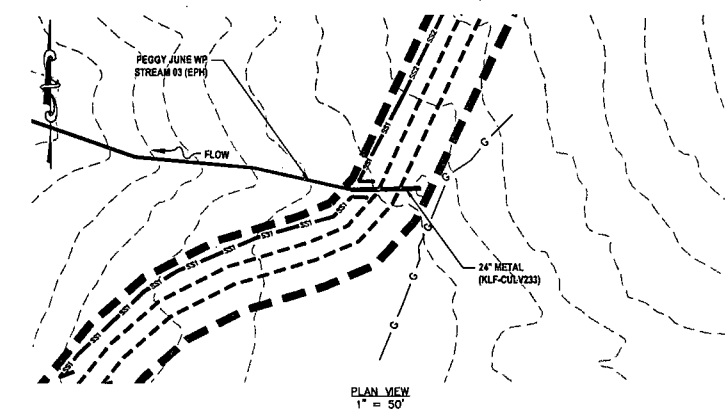
SHEET 60

SHT. NAME: 050-6321\STRICKLING\S&WC21 REV. 2

LAYOUT TAB: S&WC21  
CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg  
PLOT DATE/TIME: 6/20/2017 11:41 AM  
USER: robert.j.lucko



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV233) @ PEGGY JUNE WP STREAM 03 (EPH)**

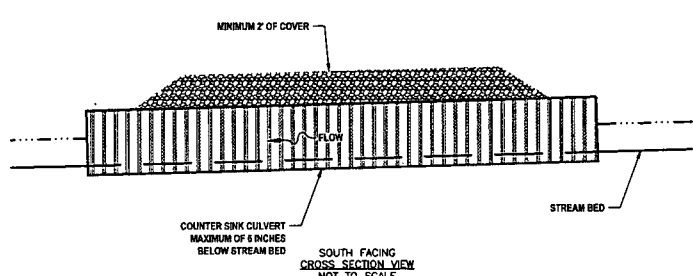


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 § OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

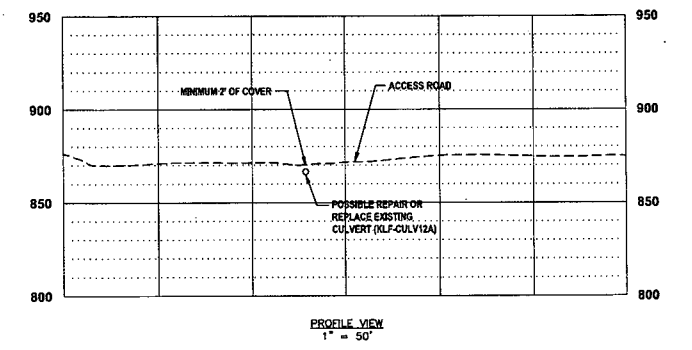
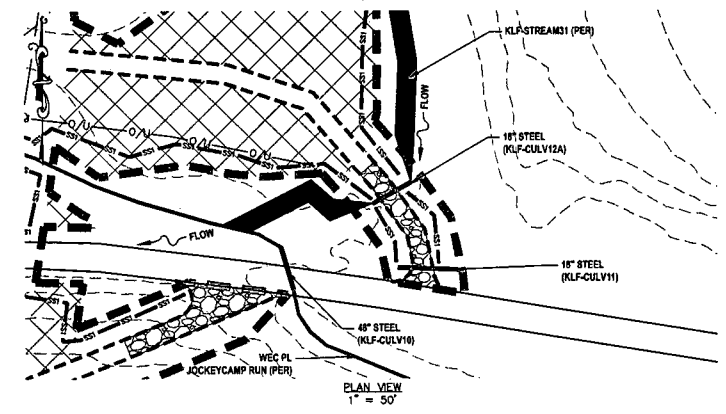
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'

**REFERENCES:**  
LAT: 39°18'01.23" N  
LONG: 80°44'28.00" W  
SHEET REF: SHEET 32

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV12A) @ KLF-STREAM31 (PER)**

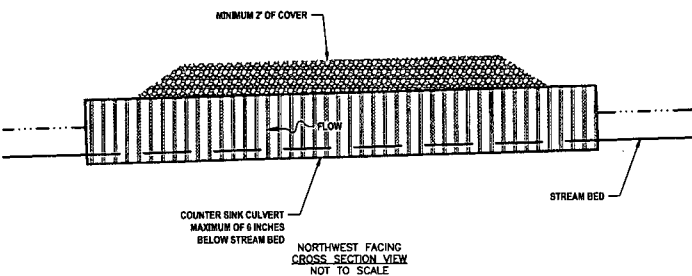


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 § OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

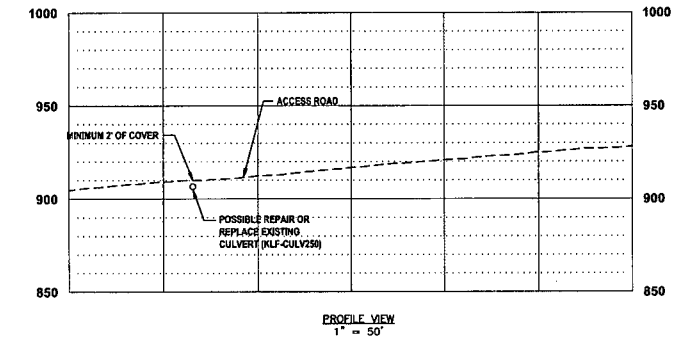
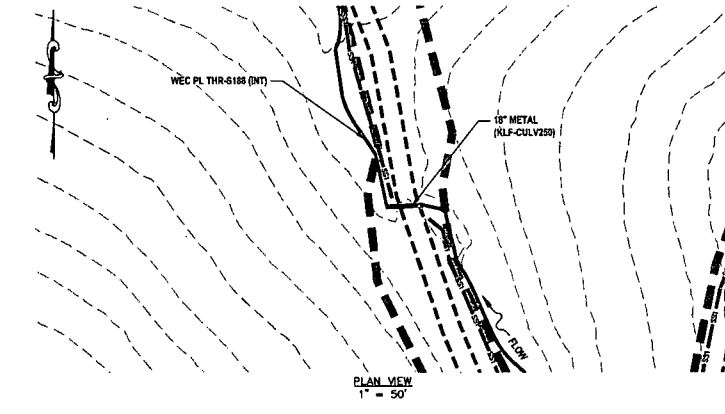
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 10.0'

**REFERENCES:**  
LAT: 39°18'06.48" N  
LONG: 80°43'27.84" W  
SHEET REF: SHEET 15

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV250) @ WEC PL THR-S186 (INT)**

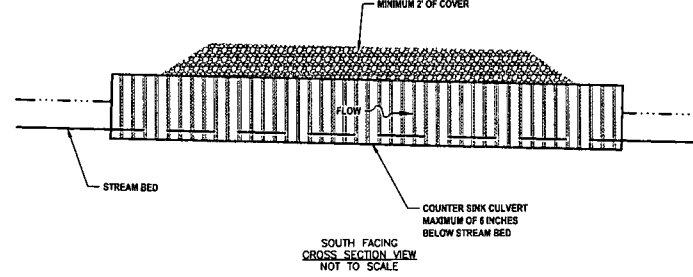


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 § OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

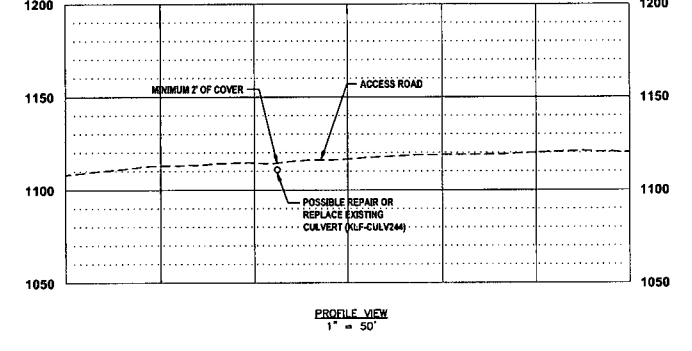
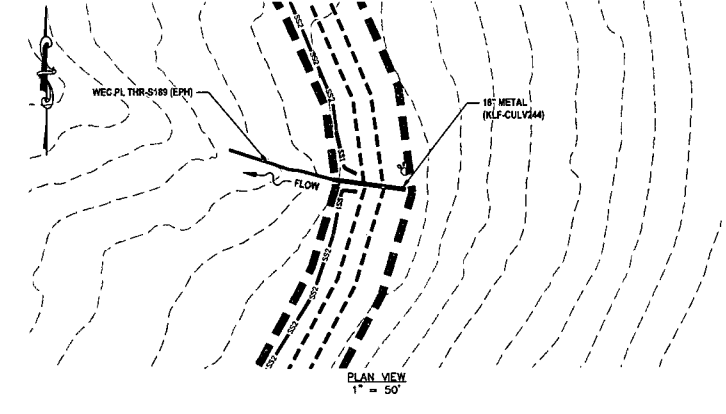
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 7.0'

**REFERENCES:**  
LAT: 39°18'02.52" N  
LONG: 80°43'17.87" W  
SHEET REF: SHEET 33

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV244) @ WEC PL THR-S189 (EPH)**

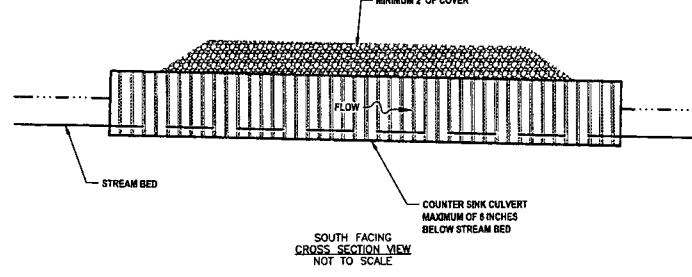


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 § OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'

**REFERENCES:**  
LAT: 39°17'55.62" N  
LONG: 80°43'10.88" W  
SHEET REF: SHEET 33

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**REVISION**

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JLA
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JLA

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

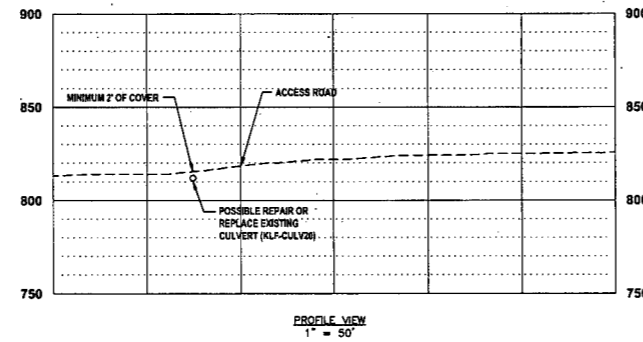
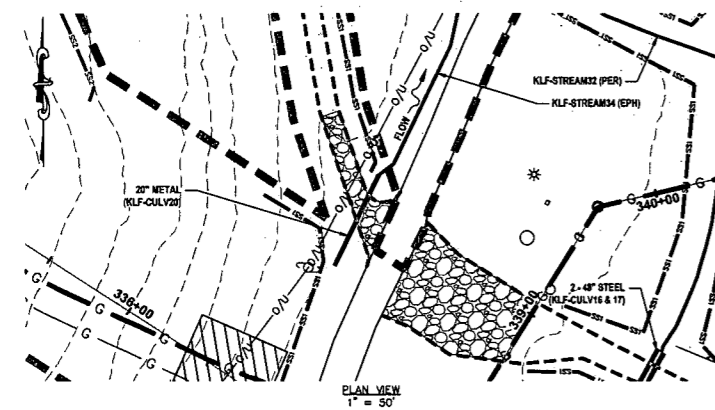
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 06/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JLA, RJA (TIG)  
CHECKED: AR, JSH (TIG)

SHEET 61  
SHT. NAME: 050-6321\STRICKLING\S&WC22 REV. 2

USER: robert.j.luczko  
 PLOT DATE/TIME: 6/20/2017 11:53 AM  
 LAYOUT TAB: S&WC22  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV20) @ KLF-STREAM34 (EPH)**

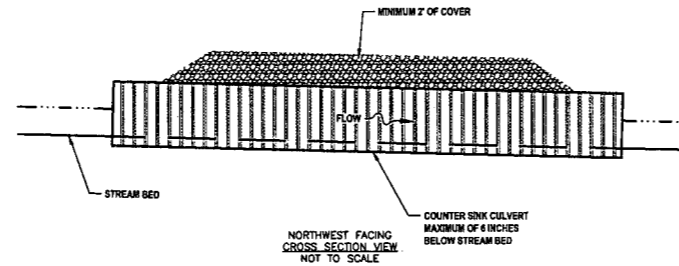


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 E OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

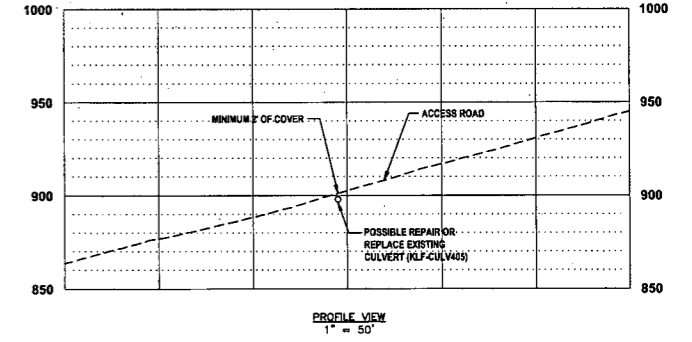
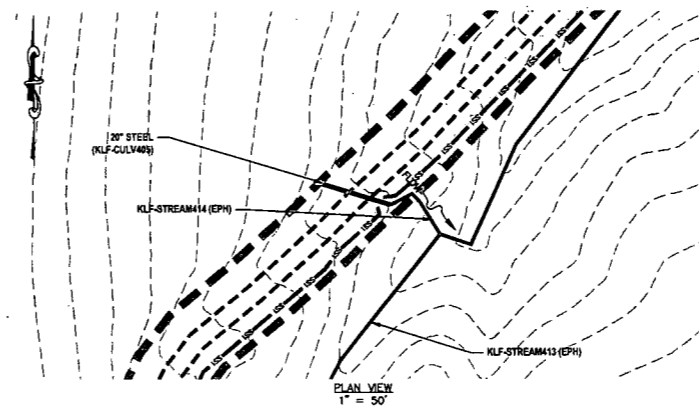
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'

**REFERENCES:**  
LAT: 38°17'18.40" N  
LONG: 80°42'51.92" W  
SHEET REF: SHEET 18 & 19

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV405) @ KLF-STREAM414 (EPH)**

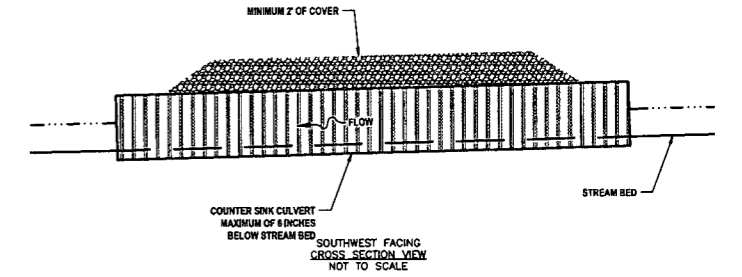


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 E OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

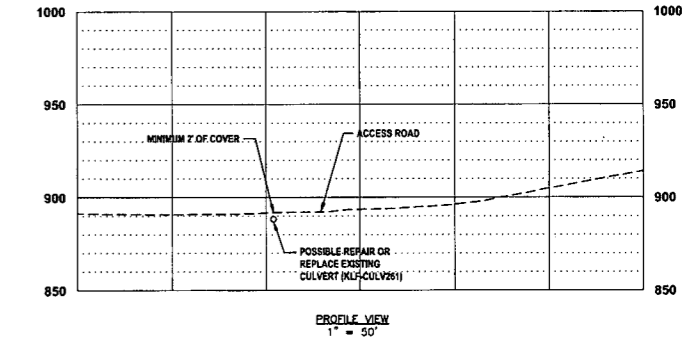
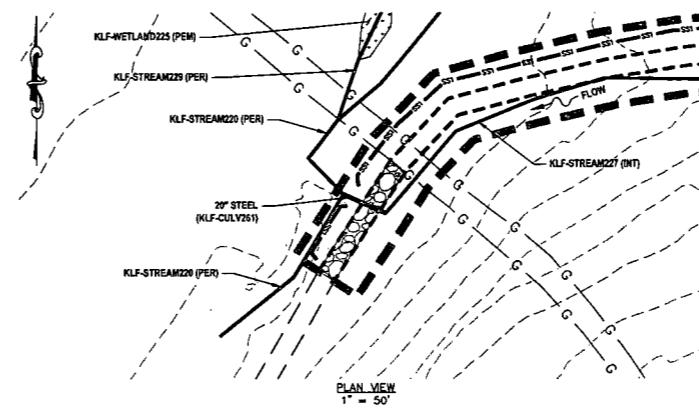
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 3.0'

**REFERENCES:**  
LAT: 38°16'57.10" N  
LONG: 80°43'17.06" W  
SHEET REF: SHEET 35

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV261) @ KLF-STREAM227 (INT)**

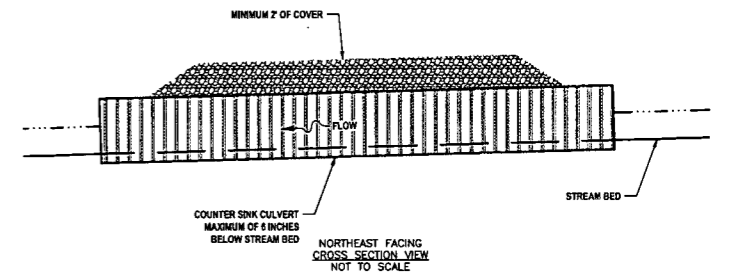


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 E OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 3.0'

**REFERENCES:**  
LAT: 38°16'12.95" N  
LONG: 80°42'47.04" W  
SHEET REF: SHEET 36

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**THRASHER**

**IFP**

ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

**SUMMARY OF MATERIALS (3D)**

**GENERAL INFORMATION**

NO.	DESCRIPTION	QTY

NO.	DESCRIPTION	QTY

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

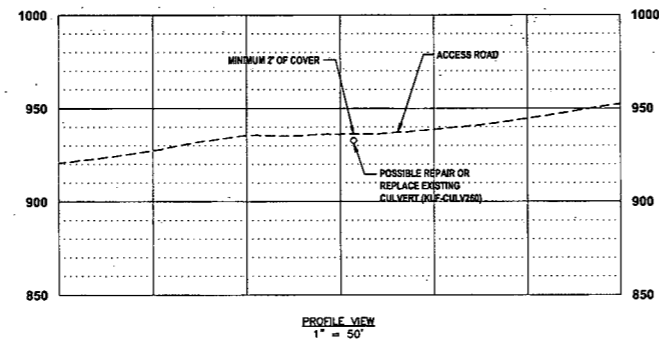
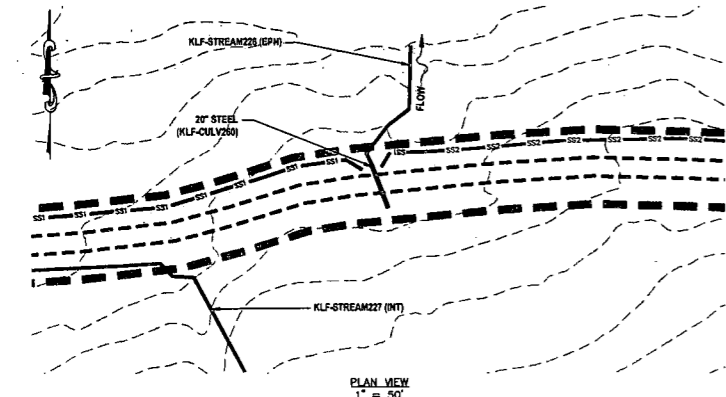
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924  
SCALE: AS SHOWN  
DRAWN BY: JDA, RJA (TTO) SHEET 62  
CHECKED BY: AR, JPH (TTO)  
SHT. NAME: 050-6321\STRICKLING\S&WC23 REV. 2

LAYOUT TAB: S&WC23  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg  
PLOT DATE/TIME: 6/20/2017 12:07 PM  
USER: robert.j.luczko

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV260) @ KLF-STREAM226 (EPH)**

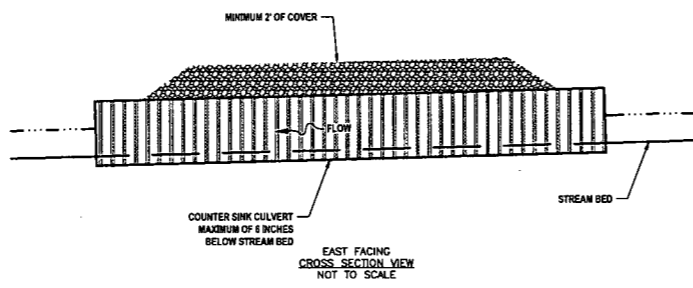


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

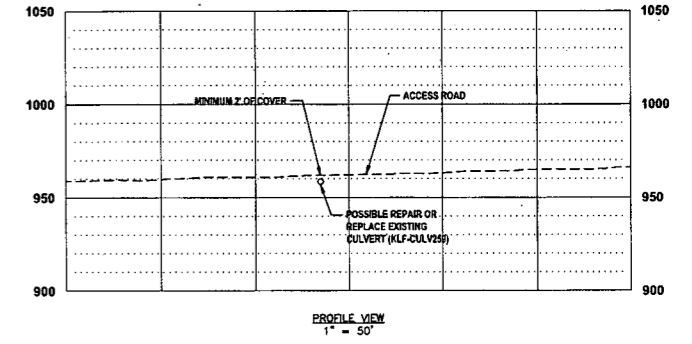
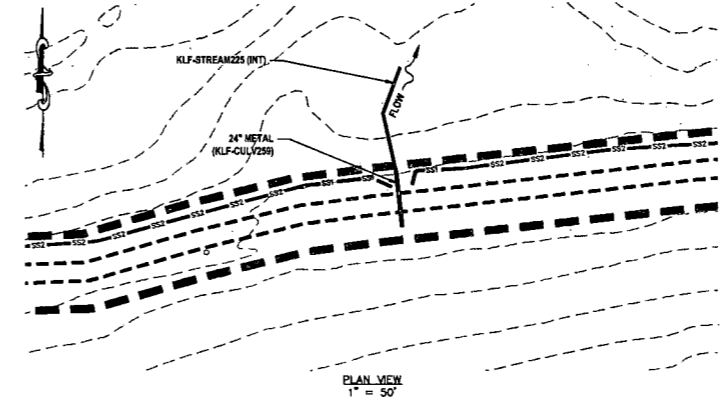
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'

**REFERENCES:**  
LAT: 39°16'14.14" N  
LONG: 80°42'42.36" W  
SHEET REF: SHEET 39

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV259) @ KLF-STREAM225 (INT)**

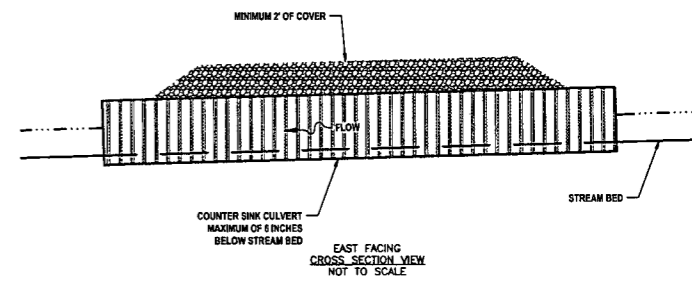


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

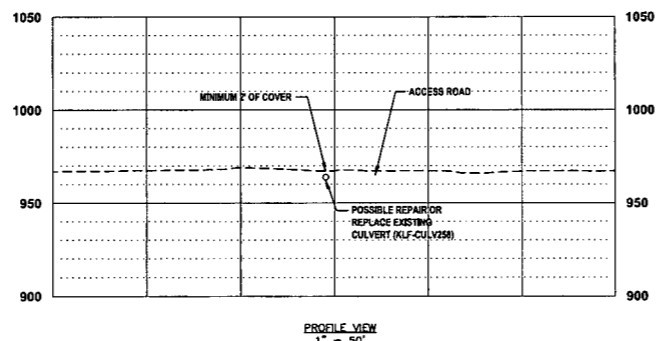
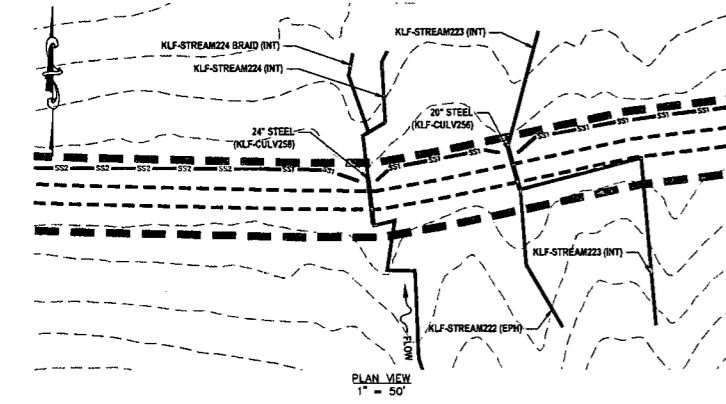
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 3.0'

**REFERENCES:**  
LAT: 39°16'14.65" N  
LONG: 80°42'36.98" W  
SHEET REF: SHEET 38

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV258) @ KLF-STREAM224 (INT)**

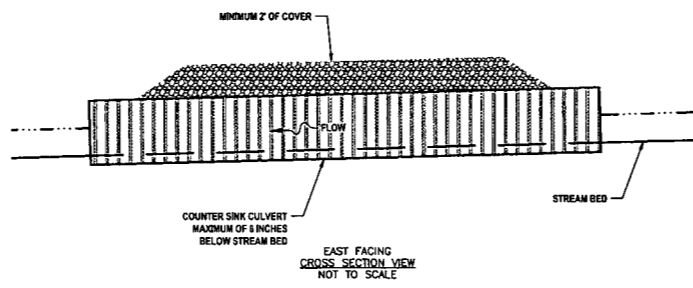


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

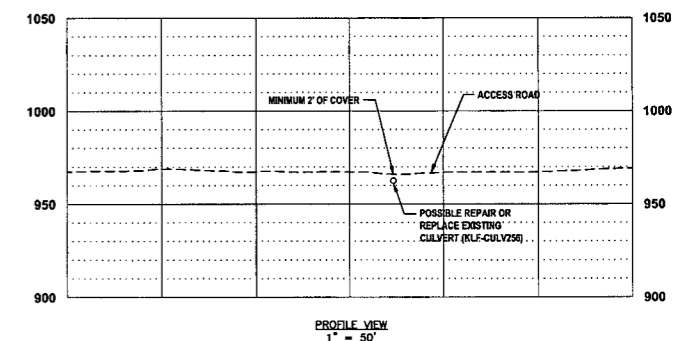
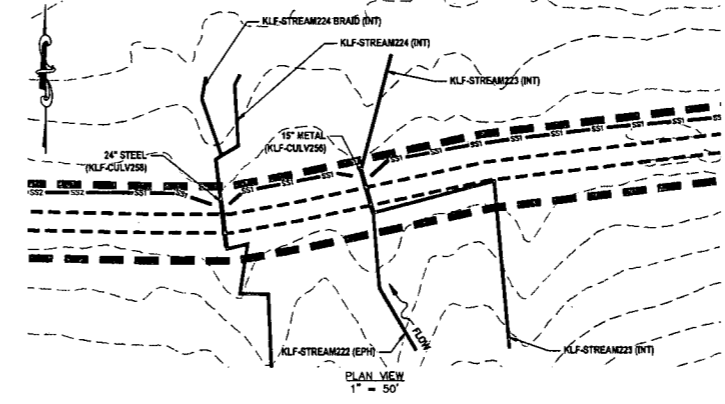
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 5.0'

**REFERENCES:**  
LAT: 39°16'14.86" N  
LONG: 80°42'31.75" W  
SHEET REF: SHEET 38

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV256) @ KLF-STREAM222 (EPH)**

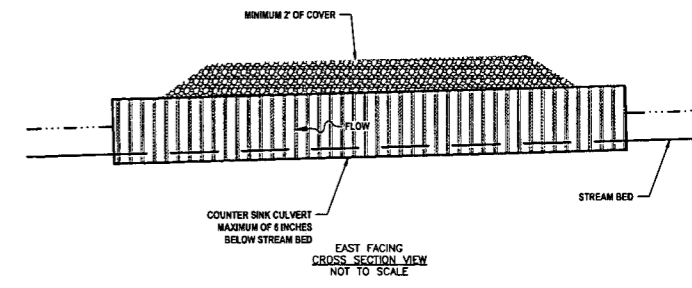


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 4.0'

**REFERENCES:**  
LAT: 39°16'15.01" N  
LONG: 80°42'30.77" W  
SHEET REF: SHEET 38

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**THRASHER**

**IFP**

ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

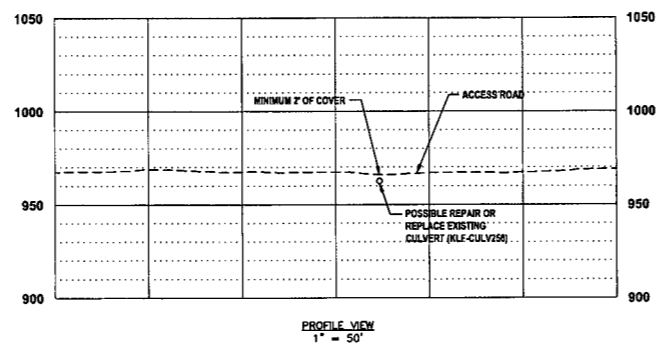
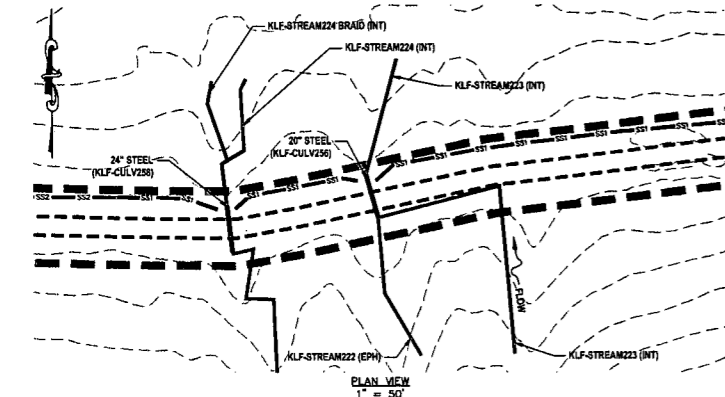
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDL, R.A. (TIG)  
CHECKED BY: AR, JRI (TIG)

SHEET 63  
SHT. NAME: 050-6321\STRICKLING\S&WC24 REV. 2

LAYOUT TAB: SAWC24  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg  
PLOT DATE/TIME: 6/20/2017 12:40 PM  
USER: robert.j.lucsko

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV256) @ KLF-STREAM223 (INT)**

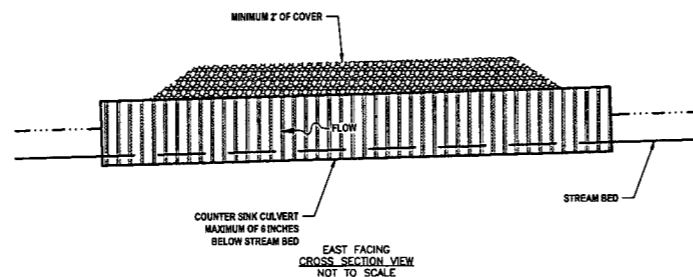


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - G EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

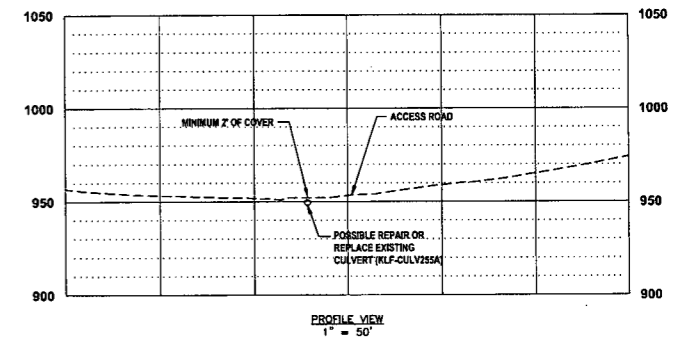
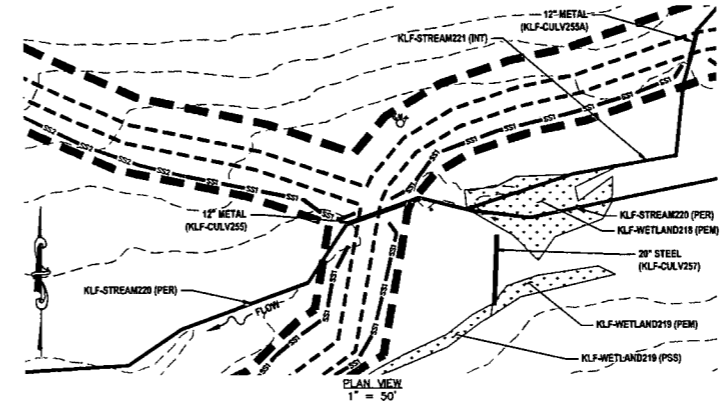
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 3.0'

**REFERENCES:**  
LAT: 39°16'15.01" N  
LONG: 87°42'30.77" W  
SHEET REF: SHEET 36

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV255) @ KLF-STREAM220 (PER)**

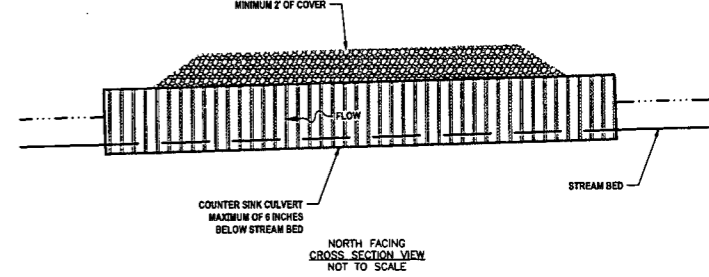


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - G EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

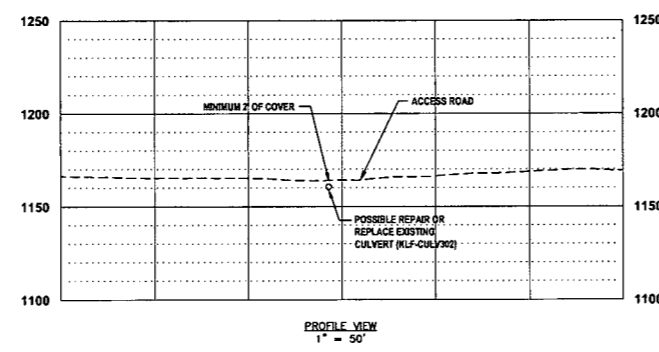
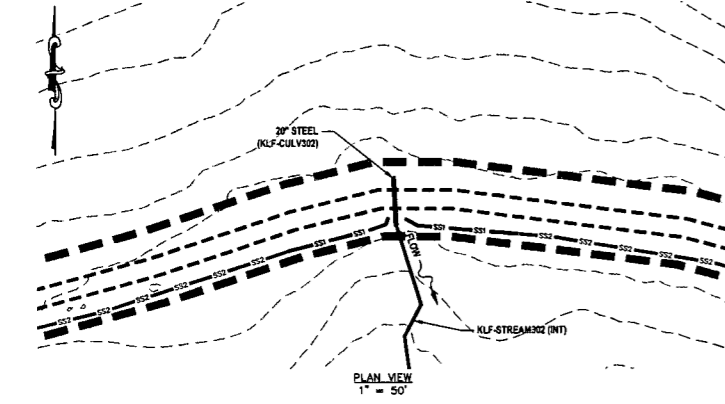
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: PERENNIAL  
STREAM WIDTH: 10.0'

**REFERENCES:**  
LAT: 39°16'17.02" N  
LONG: 87°42'25.47" W  
SHEET REF: SHEET 36

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV302) @ KLF-STREAM302 (INT)**

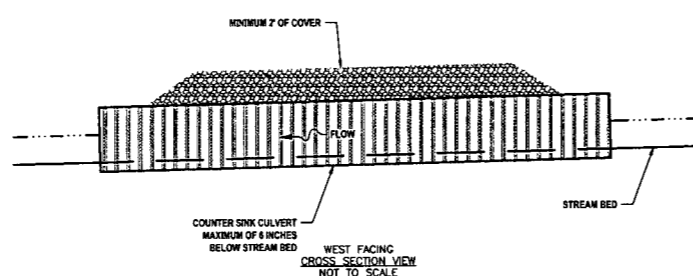


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - G EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

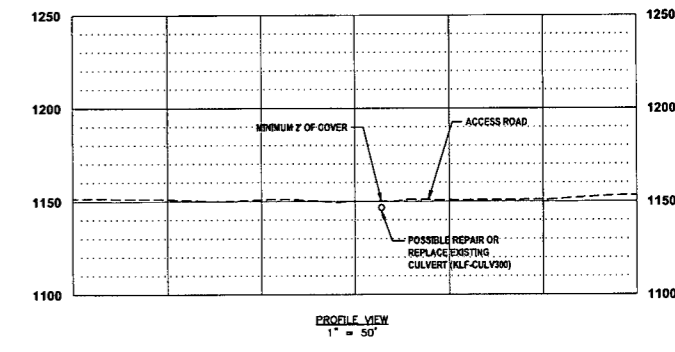
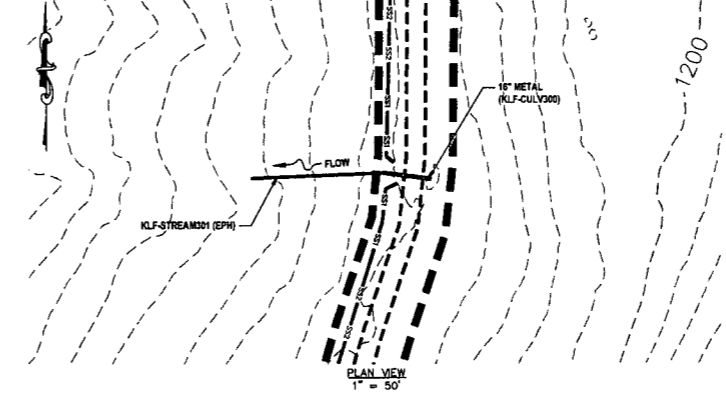
**STREAM INFORMATION:**  
STREAM CLASSIFICATION: INTERMITTENT  
STREAM WIDTH: 5.0'

**REFERENCES:**  
LAT: 39°16'24.26" N  
LONG: 87°42'31.88" W  
SHEET REF: SHEET 36

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV300) @ KLF-STREAM301 (EPH)**

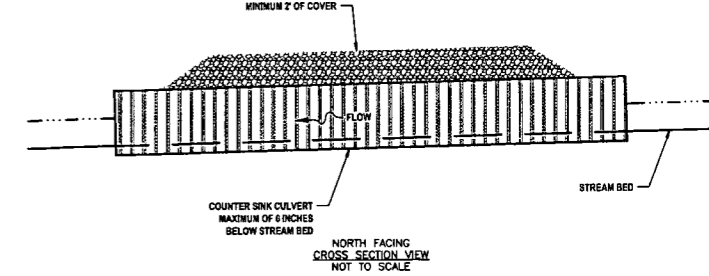


- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
  - G PROPOSED STEEL GAS LINE
  - G EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT

**STREAM INFORMATION:**  
STREAM CLASSIFICATION: EPHEMERAL  
STREAM WIDTH: 6.0'

**REFERENCES:**  
LAT: 39°16'27.55" N  
LONG: 87°42'42.28" W  
SHEET REF: SHEET 36

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**IFP**  
ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

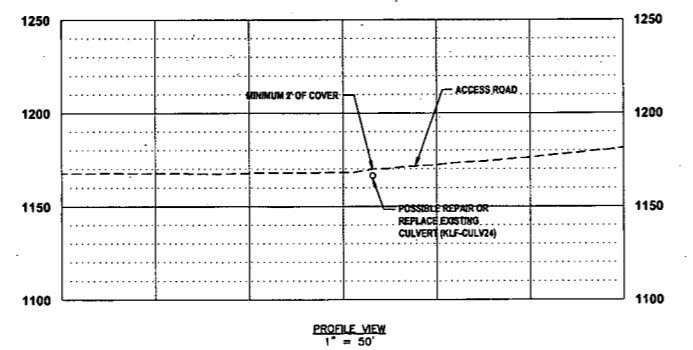
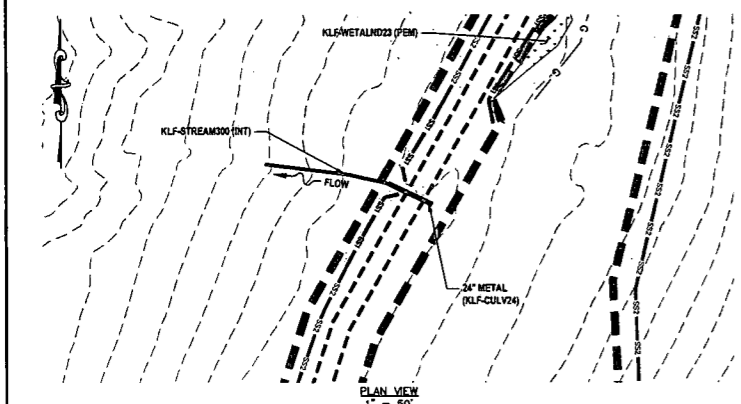
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**  
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924  
SCALE: AS SHOWN  
DRAWN BY: JNL, RJA, (TIG) SHEET 64  
CHECKED BY: AS, JBI, (TIG)  
SHT. NAME: 050-6321\STRICKLING\S&WC25 [REV. 2]

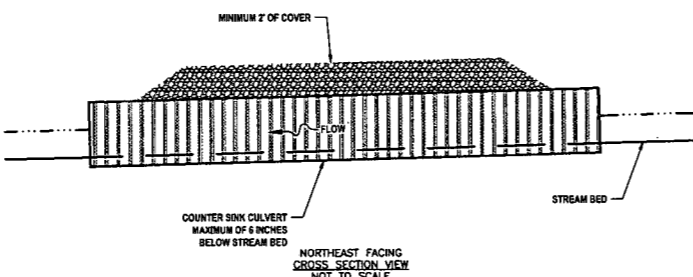
LAYOUT TAB: SAWC25  
CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg  
PLOT DATE/TIME: 6/20/2017 12:49 PM  
USER: robert.j.luczko

**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV24) @ KLF-STREAM300 (INT)**

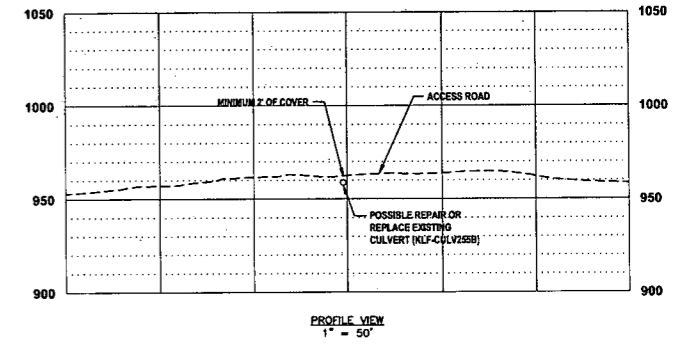
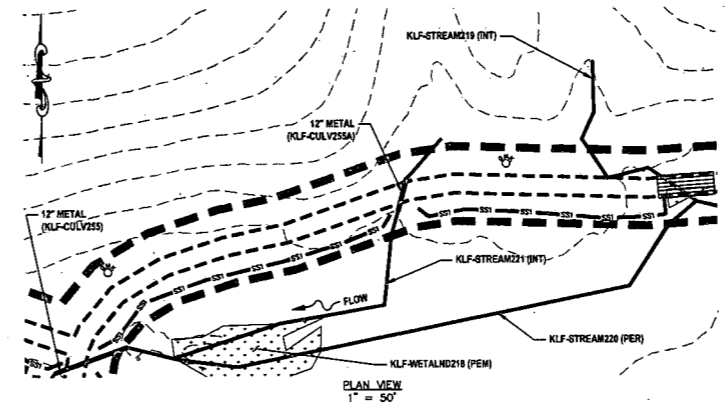


**LEGEND**  
 O EXISTING CULVERT (PROFILE)  
 PERMANENT WATER BAR (PLAN)  
 SS1 SILT SAVER BSRF-P1  
 SS2 SILT SAVER BSRF-P2  
 DELINEATED STREAM  
 DELINEATED WETLAND  
 EDGE OF ACCESS ROAD  
 EDGE OF DIRT/GRAVEL ROAD  
 CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE  
 G PROPOSED STEEL GAS LINE  
 G EXISTING GAS LINE  
 21+00 § OF PROPOSED CORRIDOR WITH STATIONING  
 EXISTING CULVERT

**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: INTERMITTENT  
 STREAM WIDTH: 8.0'  
**REFERENCES:**  
 LAT: 39°16'34.73" N  
 LONG: 80°42'40.38" W  
 SHEET REF: SHEET 36  
**NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
 3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

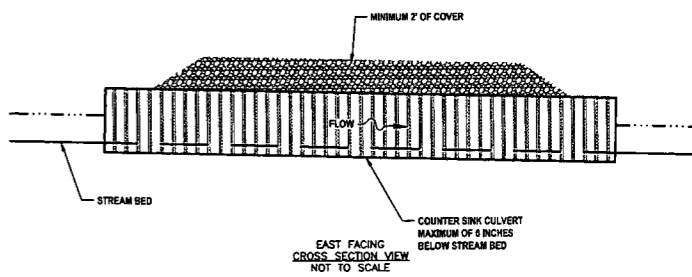


**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV255A) @ KLF-STREAM221 (INT)**

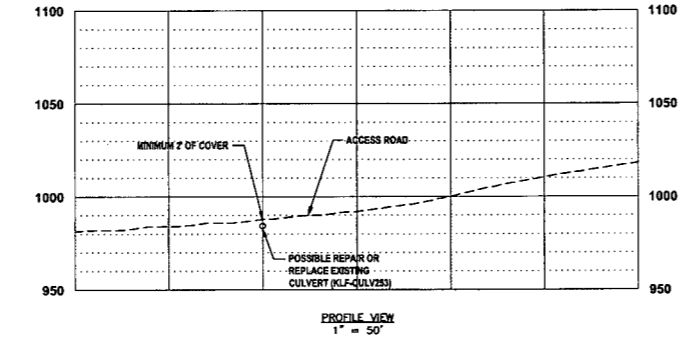
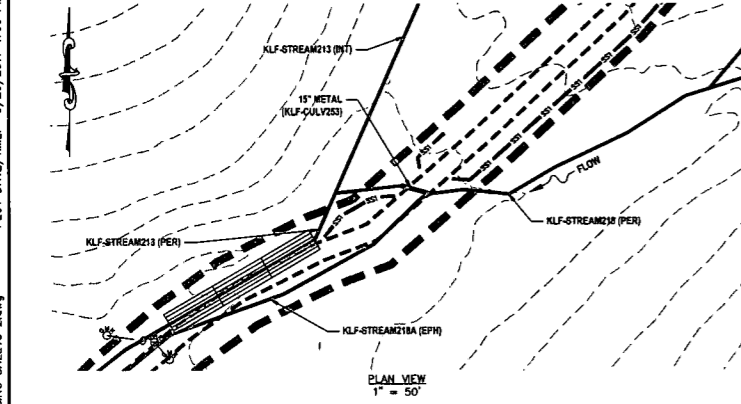


**LEGEND**  
 O EXISTING CULVERT (PROFILE)  
 PERMANENT WATER BAR (PLAN)  
 SS1 SILT SAVER BSRF-P1  
 SS2 SILT SAVER BSRF-P2  
 DELINEATED STREAM  
 DELINEATED WETLAND  
 EDGE OF ACCESS ROAD  
 EDGE OF DIRT/GRAVEL ROAD  
 CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE  
 G PROPOSED STEEL GAS LINE  
 G EXISTING GAS LINE  
 21+00 § OF PROPOSED CORRIDOR WITH STATIONING  
 EXISTING CULVERT

**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: INTERMITTENT  
 STREAM WIDTH: 3.0'  
**REFERENCES:**  
 LAT: 39°16'17.85" N  
 LONG: 80°42'23.37" W  
 SHEET REF: SHEET 36  
**NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
 3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

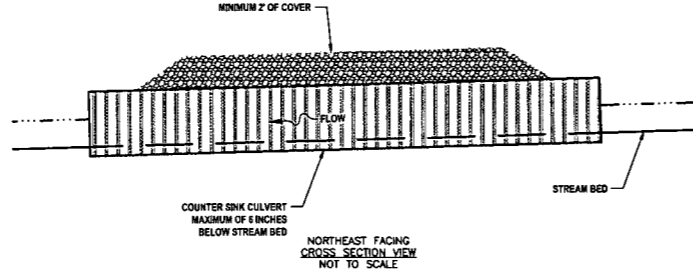


**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV253) @ KLF-STREAM218 (PER)**

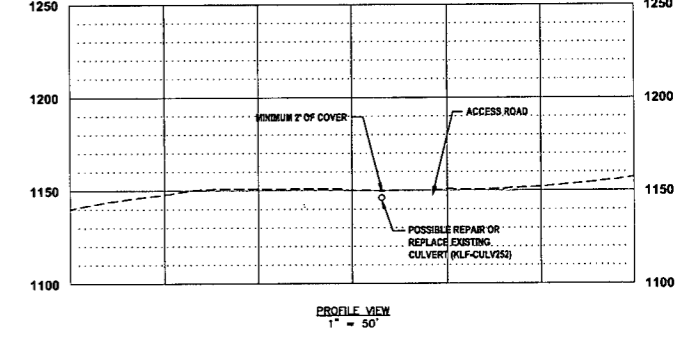
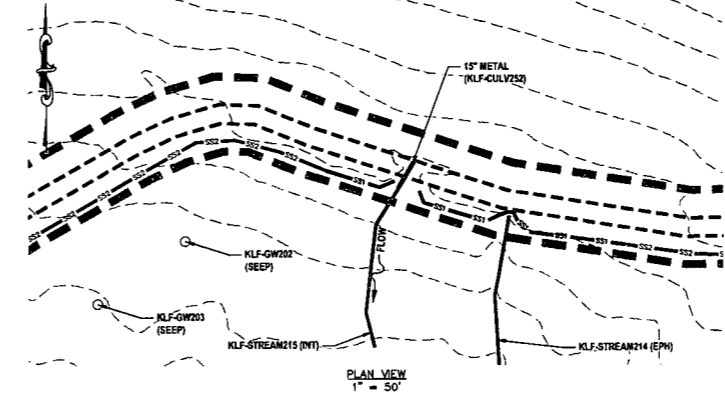


**LEGEND**  
 O EXISTING CULVERT (PROFILE)  
 PERMANENT WATER BAR (PLAN)  
 SS1 SILT SAVER BSRF-P1  
 SS2 SILT SAVER BSRF-P2  
 DELINEATED STREAM  
 DELINEATED WETLAND  
 EDGE OF ACCESS ROAD  
 EDGE OF DIRT/GRAVEL ROAD  
 CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE  
 G PROPOSED STEEL GAS LINE  
 G EXISTING GAS LINE  
 21+00 § OF PROPOSED CORRIDOR WITH STATIONING  
 EXISTING CULVERT

**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: PERMANENT  
 STREAM WIDTH: 3.5'  
**REFERENCES:**  
 LAT: 39°16'19.31" N  
 LONG: 80°42'14.30" W  
 SHEET REF: SHEET 36  
**NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
 3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.

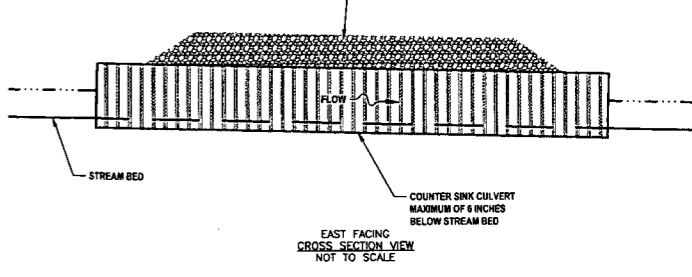


**CULVERT REPARATION / REPLACEMENT  
EXISTING CULVERT (KLF-CULV252) @ KLF-STREAM215 (INT)**



**LEGEND**  
 O EXISTING CULVERT (PROFILE)  
 PERMANENT WATER BAR (PLAN)  
 SS1 SILT SAVER BSRF-P1  
 SS2 SILT SAVER BSRF-P2  
 DELINEATED STREAM  
 DELINEATED WETLAND  
 EDGE OF ACCESS ROAD  
 EDGE OF DIRT/GRAVEL ROAD  
 CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE  
 G PROPOSED STEEL GAS LINE  
 G EXISTING GAS LINE  
 21+00 § OF PROPOSED CORRIDOR WITH STATIONING  
 EXISTING CULVERT

**STREAM INFORMATION:**  
 STREAM CLASSIFICATION: INTERMITTENT  
 STREAM WIDTH: 4.0'  
**REFERENCES:**  
 LAT: 39°16'25.07" N  
 LONG: 80°42'04.98" W  
 SHEET REF: SHEET 36  
**NOTES:**  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.  
 2. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE INSTALLING CULVERT WITH A MINIMUM COVER OF 2'.  
 3. CULVERT SHALL MEET ALL APPLICABLE AASHTO AND/OR ASTM REQUIREMENTS FOR THE SPECIFIED CULVERT TYPE.



**IFP**  
 ISSUED FOR PERMITTING  
 DATE: 06/07/2017  
 AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

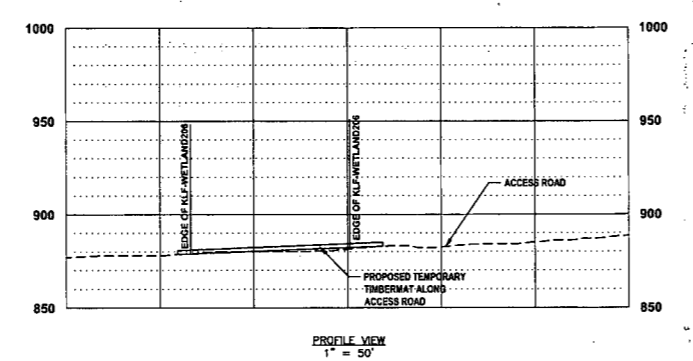
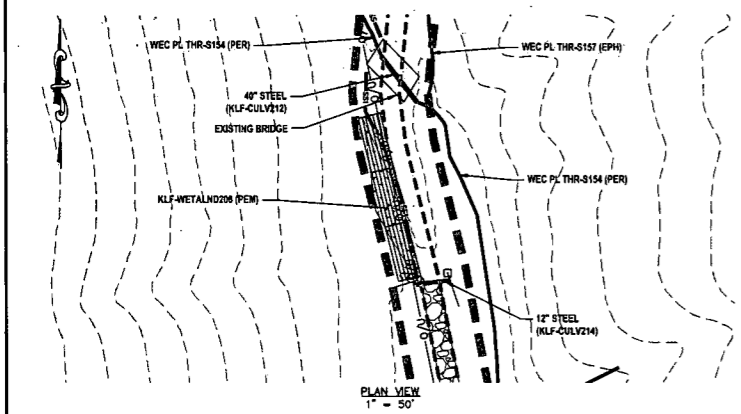
SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
1.	PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig	
2.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT	
3.	FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.	
4.	ALL STATIONING SHOWN IS HORIZONTAL STATIONING.	
5.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.	
6.	FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.	

**Antero**  
 Midstream Partners LP  
**STRICKLING PIPELINE  
 STREAM & WETLAND CROSSINGS**  
 PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA  
 DATE: 6/20/2017  
 SCALE: AS SHOWN  
 DRAWN BY: J.D. ELLIOTT  
 CHECKED BY: J.D. ELLIOTT  
 SHEET 65  
 SHT. NAME: 050-6321\STRICKLING\S&WC26  
 REV. 2

USER: robert.j.luczko  
 PLOT DATE/TIME: 6/20/2017 1:00 PM  
 LAYOUT TAB: S&WC26  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg

**TEMPORARY WETLAND IMPACT 1  
@KLF-WETLAND206 (PEM)**

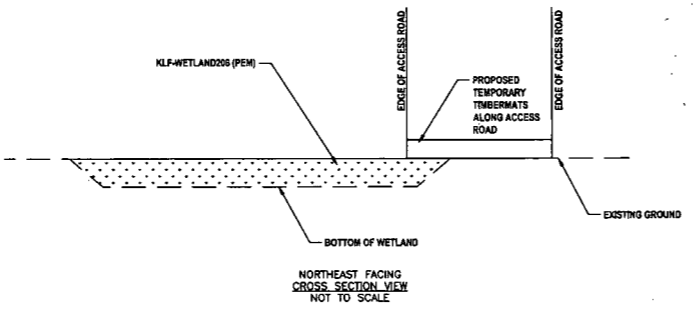


**LEGEND**

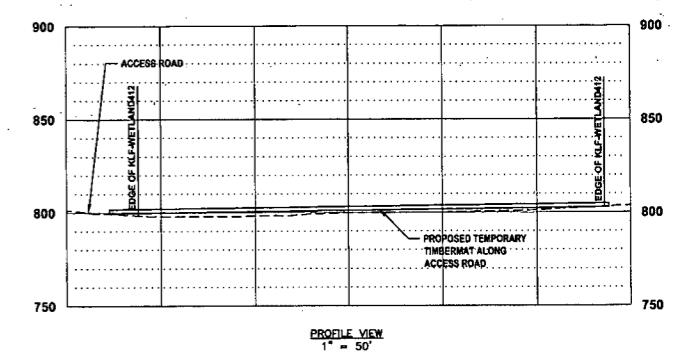
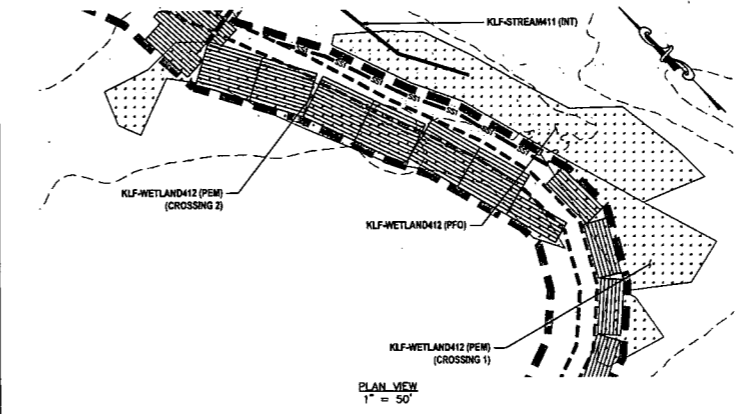
- EXISTING CULVERT (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING GAS LINE
- 21+00 E OF PROPOSED CORRIDOR WITH STATIONING
- EXISTING CULVERT
- PROPOSED TIMBERMATS

**WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT

**REFERENCES:**  
LAT: 38°16'08.48\"/>



**TEMPORARY WETLAND IMPACT 2  
@KLF-WETLAND412 (PEM) (CROSSING 1)**

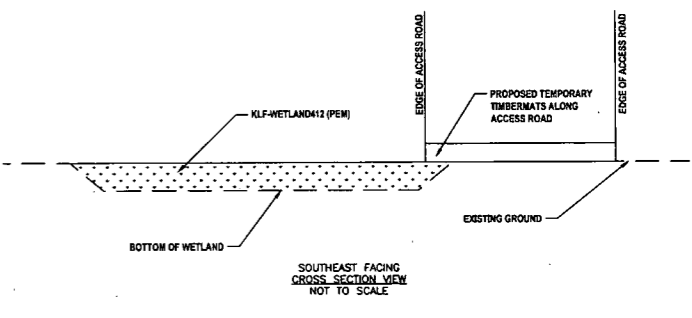


**LEGEND**

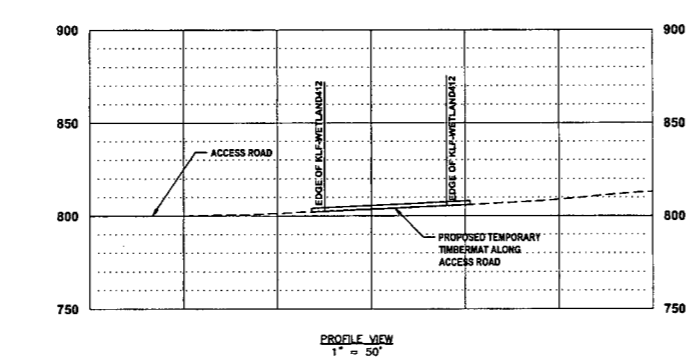
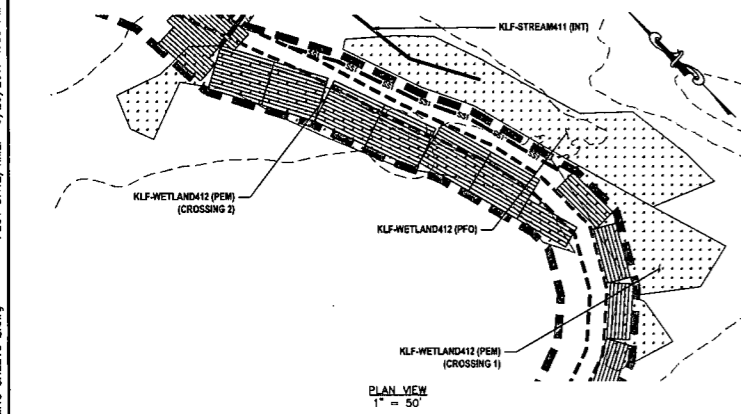
- EXISTING CULVERT (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING GAS LINE
- 21+00 E OF PROPOSED CORRIDOR WITH STATIONING
- EXISTING CULVERT
- PROPOSED TIMBERMATS

**WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT

**REFERENCES:**  
LAT: 38°17'01.63\"/>



**TEMPORARY WETLAND IMPACT 3  
@KLF-WETLAND412 (PEM) (CROSSING 2)**

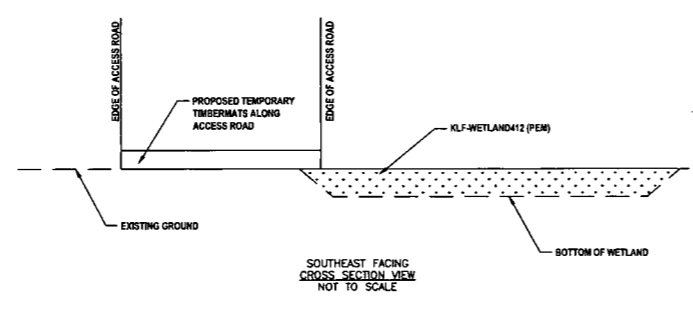


**LEGEND**

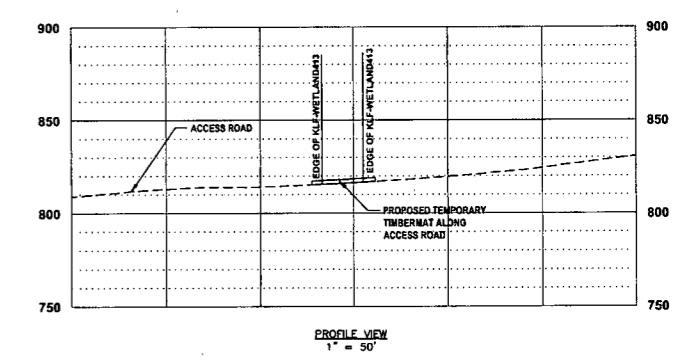
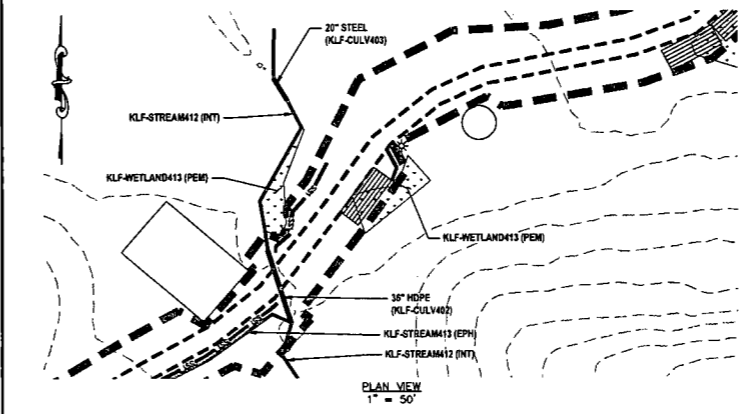
- EXISTING CULVERT (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING GAS LINE
- 21+00 E OF PROPOSED CORRIDOR WITH STATIONING
- EXISTING CULVERT
- PROPOSED TIMBERMATS

**WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT

**REFERENCES:**  
LAT: 38°17'03.31\"/>



**TEMPORARY WETLAND IMPACT 4  
@KLF-WETLAND413 (PEM)**

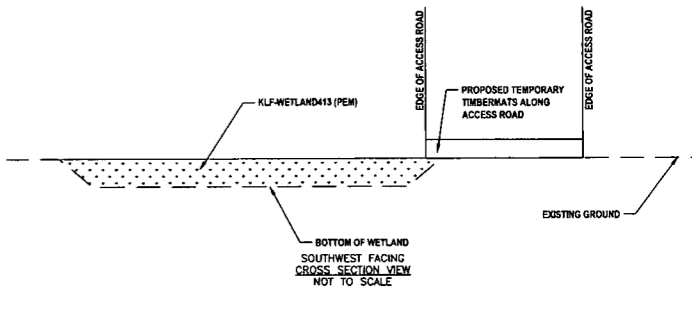


**LEGEND**

- EXISTING CULVERT (PROFILE)
- PERMANENT WATER BAR (PLAN)
- SS1 SILT SAVER BSRF-P1
- SS2 SILT SAVER BSRF-P2
- DELINEATED STREAM
- DELINEATED WETLAND
- EDGE OF ACCESS ROAD
- EDGE OF DIRT/GRAVEL ROAD
- CONSTRUCTION RIGHT-OF-WAY/ LIMITS OF DISTURBANCE
- PROPOSED STEEL GAS LINE
- EXISTING GAS LINE
- 21+00 E OF PROPOSED CORRIDOR WITH STATIONING
- EXISTING CULVERT
- PROPOSED TIMBERMATS

**WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT

**REFERENCES:**  
LAT: 38°17'00.27\"/>



**THRASHER**

**IFP**

ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig; PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY: HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT; VERTICAL - NAVD 88 (GEOID12B), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

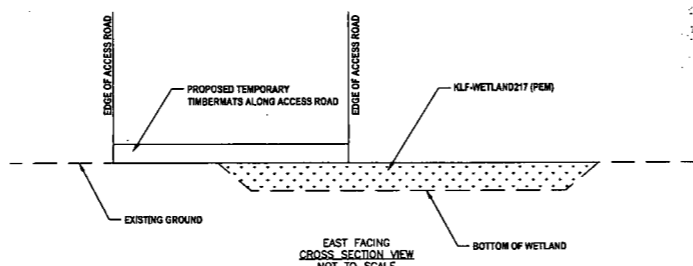
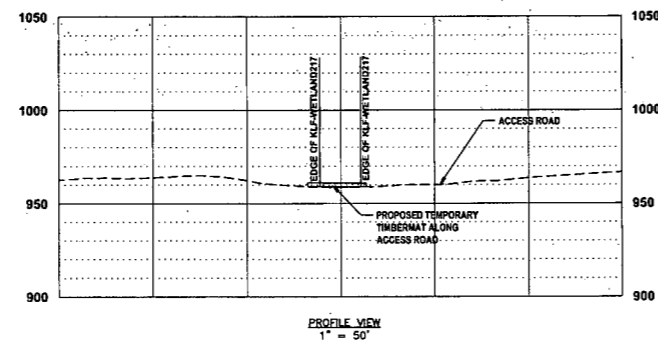
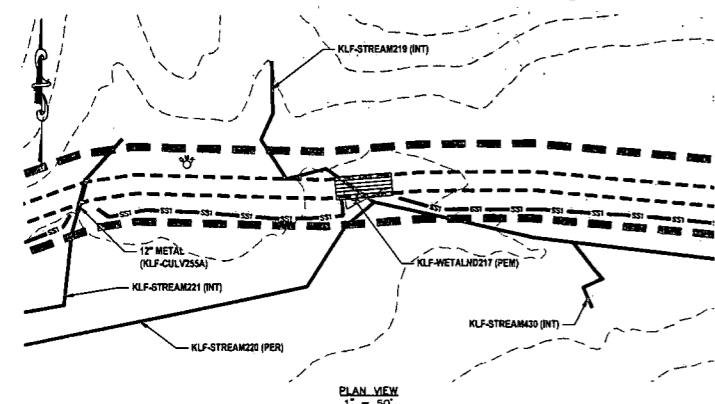
**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**  
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/26/2017  
SCALE: AS SHOWN  
DRAWN BY: JLA, RLA (TTO)  
CHECKED: AR, JRN (TTO)

SHEET 66  
SHT. NAME: 050-6321\STRICKLING\S&WC27  
REV. 2

USER: robert.j.luczko  
PLOT DATE/TIME: 6/20/2017 1:09 PM  
LAYOUT TAB: S&WC27  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg

**TEMPORARY WETLAND IMPACT 5  
@KLF-WETLAND217 (PEM)**



- LEGEND**
- EXISTING CULVERT (PROFILE)
  - PERMANENT WATER BAR (PLAN)
  - SS1 SILT SAVER BSRF-P1
  - SS2 SILT SAVER BSRF-P2
  - DELINEATED STREAM
  - ▨ DELINEATED WETLAND
  - EDGE OF ACCESS ROAD
  - EDGE OF DIRT/GRAVEL ROAD
  - CONSTRUCTION RIGHT-OF-WAY/LIMITS OF DISTURBANCE
  - PROPOSED STEEL GAS LINE
  - EXISTING GAS LINE
  - 21+00 ± OF PROPOSED CORRIDOR WITH STATIONING
  - EXISTING CULVERT
  - ▨ PROPOSED TIMBERMATS

**WETLAND INFORMATION:**  
WETLAND CLASSIFICATION: PALUSTRINE EMERGENT

**REFERENCES:**  
LAT: 39°16'17.96" N  
LONG: 80°42'21.37" W  
SHEET REF: SHEET 35

**NOTES:**  
1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT ACCESS INTO STREAM OR WETLAND.

USER: robert.j.lucsko  
 PLOT DATE/TIME: 6/20/2017 1:11 PM  
 LAYOUT TAB: S&WC28  
 CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-SURVEY\PLANS\STREAM & WETLAND CROSSING SHEETS 2.dwg

**THRASHER**

**IFP**  
ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

REVISION			
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	J.L.
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	J.L.

**Antero**  
MidstreamPartners LP

**STRICKLING PIPELINE  
STREAM & WETLAND CROSSINGS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 SHEET: A05924

SCALE: AS SHOWN

DRAWN BY: J.L. (TTC) SHEET 67

CHECKED: AS, JRH (TTC)

SHT. NAME: 050-6321\STRICKLING\S&WC28 REV. 2

**GENERAL INFORMATION**

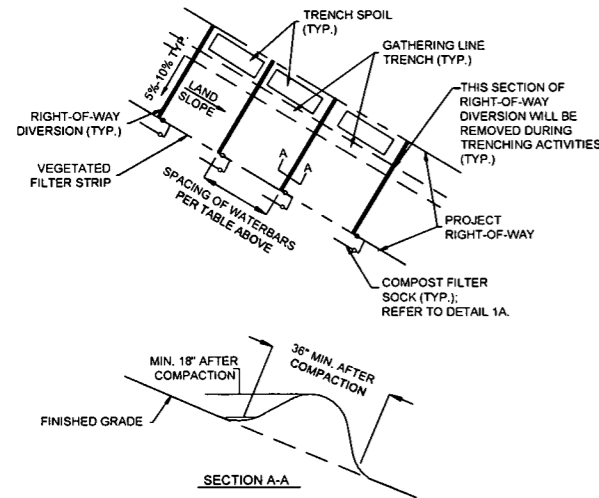
- PROPOSED HIGH PRESSURE GAS LINE MAOP = 1,440 psig;  
PROPOSED LOW PRESSURE GAS LINE MAOP = 1,440 psig
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:  
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT  
VERTICAL - NAVD 88 (GEOID128), U.S. SURVEY FOOT
- FIELD DELINEATION PERFORMED AND PROVIDED BY: KLEINFELDER, INC.
- ALL STATIONING SHOWN IS HORIZONTAL STATIONING.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.





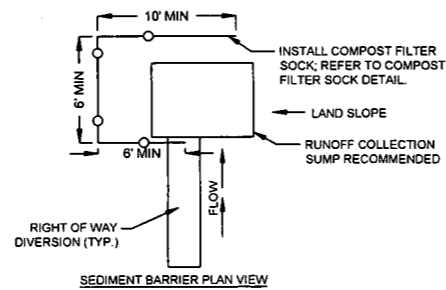
RIGHT-OF-WAY DIVERSION SPACING IN FEET		
PIPELINE GRADE	> 200' FROM STREAM	< 200' FROM STREAM
2-5 %	400	200
6-12 %	300	150
13-21 %	200	100
22-34 %	100	50
35-50 %	50	25

\* IT IS DIFFICULT TO INSTALL DIVERSIONS ON SLOPES STEEPER THAN 35%. THE DIVISION OF WATER AND WASTE MANAGEMENT WILL ALLOW GREATER DISTANCES BETWEEN DIVERSIONS ON EXTREME SLOPES



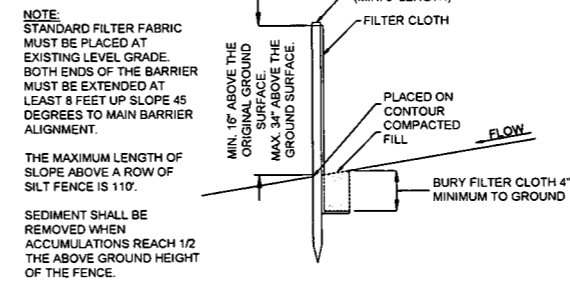
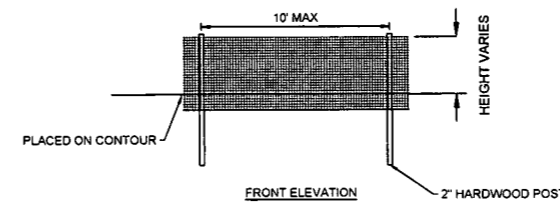
NOTE: SUMPS TO BE USED DURING CONSTRUCTION (TEMPORARY)

1 RIGHT OF WAY DIVERSION OUTLET (WATERBAR)  
NTS



- NOTES:**
- RIGHT-OF-WAY DIVERSIONS SHOULD BE INSTALLED ACROSS THE ENTIRE RIGHT-OF-WAY ON ALL SLOPES GREATER THAN 5%.
  - RIGHT-OF-WAY DIVERSIONS SHALL BE PLACED AT 5% TO 10% SLOPE DOWNHILL. THEY SHALL BE SPACED AT THE INCREMENTS AS SHOWN IN DETAIL 1, AND IN ACCORDANCE WITH WDEP E&S STANDARDS.
  - RIGHT-OF-WAY DIVERSIONS SHOULD BE CONSTRUCTED TO DISCHARGE TO A WELL-VEGETATED AREA. RIGHT-OF-WAY DIVERSIONS SHOULD NOT DISCHARGE INTO AN OPEN TRENCH. RIGHT-OF-WAY DIVERSIONS SHOULD BE ORIENTED SO THAT THE DISCHARGE DOES NOT FLOW BACK INTO THE RIGHT-OF-WAY. 12" COMPOST FILTER SOCK SHOULD BE LOCATED BELOW THE DISCHARGE END OF THE RIGHT-OF-WAY DIVERSIONS.
  - BSRF CAN BE SUBSTITUTED IN PLACE OF CFS WITH APPROVAL FROM ANTERO.
  - SUMPS TO BE USED DURING CONSTRUCTION (TEMPORARY).
- MAINTENANCE:**
- RIGHT-OF-WAY DIVERSIONS SHALL BE INSPECTED WEEKLY (DAILY ON ACTIVE ROADS) AND AFTER EACH RUNOFF EVENT. DAMAGED OR ERODED RIGHT-OF-WAY DIVERSIONS SHALL BE RESTORED TO ORIGINAL DIMENSIONS WITHIN 24 HOURS OF INSPECTION.
  - MAINTENANCE OF RIGHT-OF-WAY DIVERSIONS SHALL BE PROVIDED UNTIL RIGHT-OF-WAY HAS ACHIEVED PERMANENT STABILIZATION.
  - RIGHT-OF-WAY DIVERSIONS ON RETIRED RIGHT-OF-WAYS SHALL BE LEFT IN PLACE AFTER PERMANENT STABILIZATION HAS BEEN ACHIEVED.

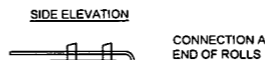
1A RIGHT OF WAY DIVERSION OUTLET (WATERBAR)  
NTS



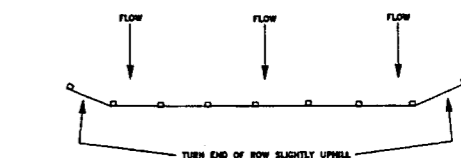
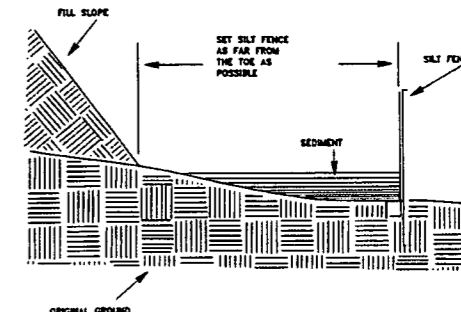
NOTE: STANDARD FILTER FABRIC MUST BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE 45 DEGREES TO MAIN BARRIER ALIGNMENT.

THE MAXIMUM LENGTH OF SLOPE ABOVE A ROW OF SILT FENCE IS 110'.

SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

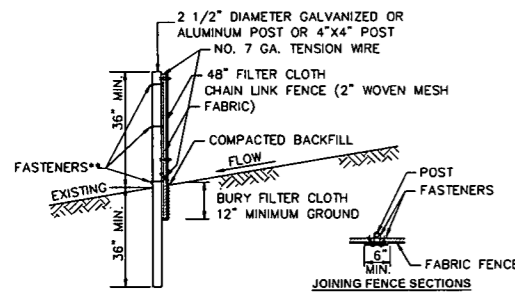


2 SILT FENCE  
NTS



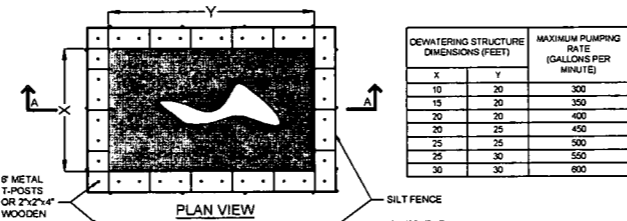
Slope - Percent	Maximum Slope Length (ft) Above Fence		
	Standard (18" High) Silt Fence	Reinforced (30" High) Silt Fence	Super Silt Fence
2 (or less)	150	250	1000
5	100	150	500
10	50	100	250
15	35	70	175
20	25	50	125
25	20	40	100
30	15	30	75
35	12	25	60
40	10	20	50
45	8	15	40
50	6	12	30

2A SILT FENCE PLACEMENT  
NTS

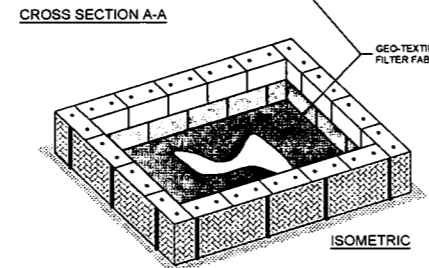


- POSTS SPACED @ 10' MAX. USE 2 1/2" DIA. GALVANIZED OR ALUMINUM POSTS OR 4" x 4" POST.
- CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POST WITH WIRE TIES OR STAPLES.
- GEOTEXTILE FABRIC SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID-SECTIONS.
- NO. 7 GA. TENSION WIRE INSTALLED HORIZONTALLY AT TOP AND BOTTOM OF CHAIN-LINK FENCE.
- FILTER FABRIC FENCE SHOULD BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE.
- THE LENGTH OF SLOPE ABOVE THE FENCE SHALL NOT EXCEED 400 FEET IN STEEP TERRAIN. IN FLATTER AREAS THE LENGTH CAN BE EXTENDED WITH THE APPROVAL OF THE ENGINEER.
- NO SECTION OF SILT FENCE SHOULD EXCEED A GRADE OF 5% FOR MORE THAN A DISTANCE OF 20 FEET.
- SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

3 SUPER SILT FENCE  
NTS



DEWATERING STRUCTURE DIMENSIONS (FEET)		MAXIMUM PUMPING RATE (GALLONS PER MINUTE)
X	Y	
10	20	300
15	20	350
20	20	400
20	25	450
25	25	500
25	30	550
30	30	600



4 STRAW BALE DEWATERING  
NTS

- STRAW BALES SHOULD BE PLACED ON THEIR SIDES WITH THE TWINE FACING OUT.
- STRAW BALES SHOULD BE STACKED TWO HIGH WITH GEO-TEXTILE FABRIC PINNED BETWEEN BALES.
- SEAMS OF GEOTEXTILE FABRIC SHOULD BE SEWN TOGETHER.
- 8 FOOT METAL T-POSTS ARE RECOMMENDED, DRIVEN THROUGH BOTH STRAW BALES. IF METAL T-POSTS ARE NOT AVAILABLE, WOODEN STAKES SHOULD BE A MINIMUM OF 2" X 4". STAKES SHOULD BE DRIVEN AROUND THE PERIMETER OF THE STRAW BALES AS STRUCTURAL SUPPORT AS WELL AS THROUGH THE BALES TO HELP PIN THE GEO-TEXTILE FABRIC IN PLACE.
- DEWATERING STRUCTURES DIMENSIONS SHOULD BE DESIGNED TO ACCOMMODATE THE SIZE OF THE WATER PUMP BEING UTILIZED.
- DEWATERING STRUCTURE DIMENSIONS MAY NEED TO BE ADJUSTED TO SUIT THE VARIOUS SIZES OF FILTER BAGS, THOUGH SQUARE FOOTAGE SPECIFICATIONS SHOULD STILL BE MAINTAINED. THE STRUCTURE SHOULD COMPLETELY ENCOMPASS THE BAG BEING UTILIZED.
- WHEN PUMPING LARGE AMOUNTS OF WATER FOR AN EXTENDED PERIOD OF TIME, (LARGE BELL HOLES, ETC.) INTERVAL PUMPING MAY BE NECESSARY TO AVOID OVERPOWERING THE DEWATERING STRUCTURE.
- USE OF MULTIPLE DEWATERING STRUCTURES MAY BE NECESSARY UNDER SPECIAL CIRCUMSTANCES.
- FOR STREAM CROSSINGS, WHEN PUMPING OUT THE TRENCH WITH A 2 INCH TRASH PUMP AT X THROTTLE, A STANDARD 10' BY 10' DEWATERING STRUCTURE WITH A COMPARABLE FILTER BAG SHOULD BE ADEQUATE. FIELD ADJUSTMENTS WILL BE MADE IF FLOW IS OVERPOWERING THE STRUCTURE.
- ADDITIONAL EROSION CONTROLS MAY BE UTILIZED DOWNSLOPE OF DEWATERING STRUCTURES WHERE NEEDED.
- DEWATERING STRUCTURE WILL BE PLACED TO MAXIMIZE AVAILABLE VEGETATIVE STRIP.

4A STRAW BALE DEWATERING  
NTS

THRASHER

IFP

ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

GENERAL INFORMATION

1. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

Antero  
Midstream Partners LP

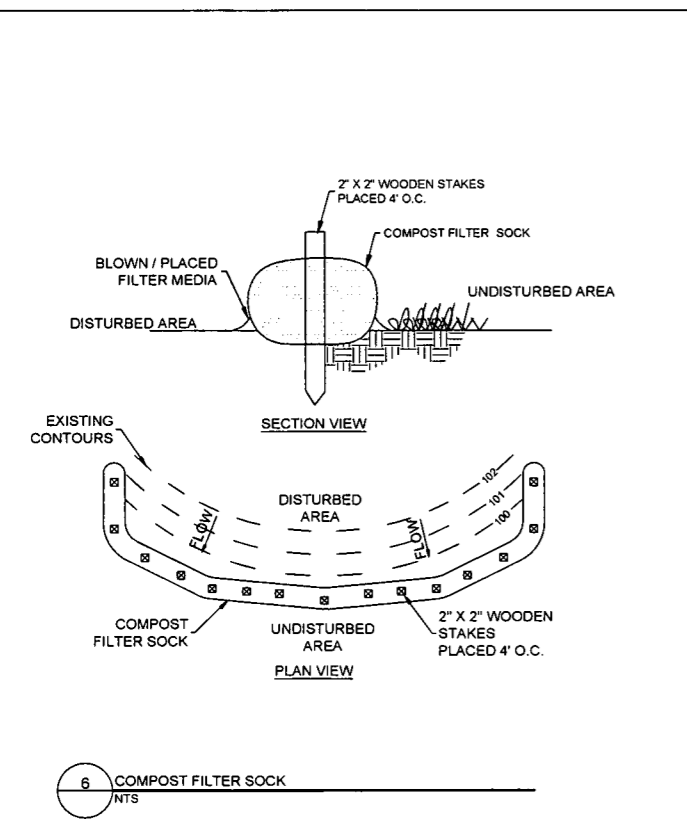
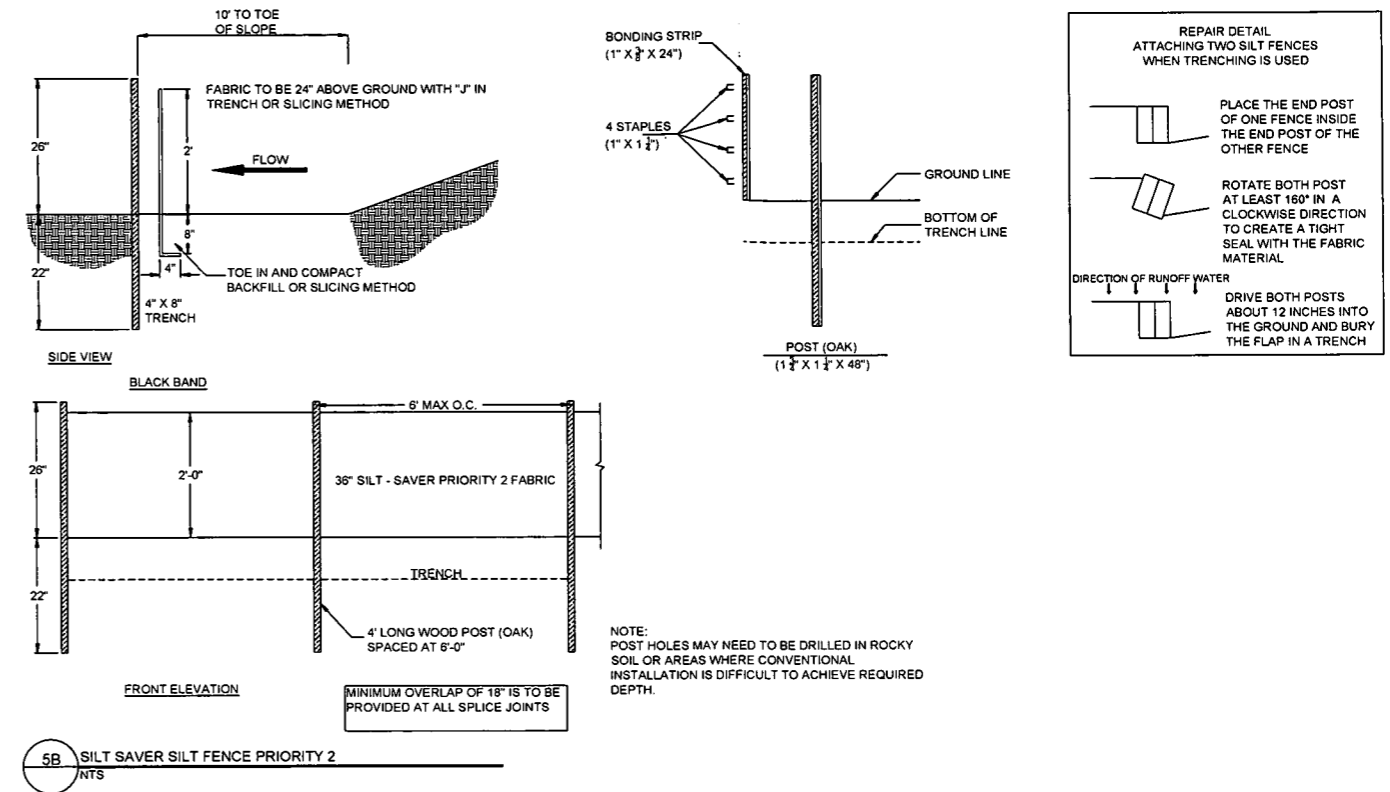
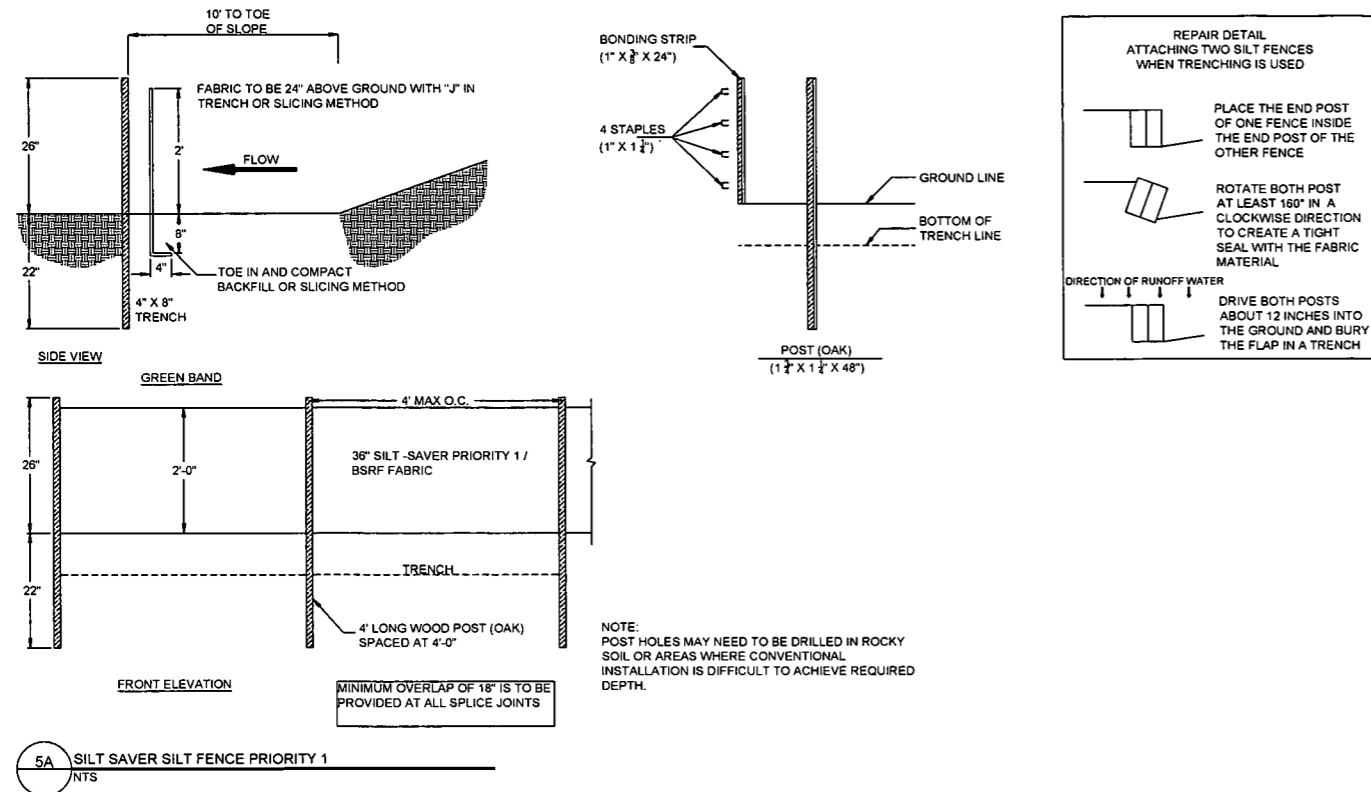
STRICKLING PIPELINE  
ESCP DETAILS

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017  
SCALE: AS SHOWN  
DRAWN BY: JDL, RAL (TTC)  
CHECKED: AN, JBN (TTC)  
SHEET 69  
SHT. NAME: 050-6321\STRICKLING\ESCP2  
REV. 2

USER: robert.j.luczko PLOT DATE/TIME: 6/20/2017 10:26 AM LAYOUT TAB: ESCP2 CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ESCP DETAIL SHEETS.dwg

LAYOUT TAB: ESCP3  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ESCP DETAIL SHEETS.dwg  
 PLOT DATE/TIME: 6/20/2017 10:27 AM  
 USER: robert.j.luczko



- CONDITIONS WHERE PRACTICE APPLIES:**
- INSTALL ON DISTURBED AREAS THAT REQUIRE IMMEDIATE EROSION PROTECTION.
  - USE ON SLOPES REQUIRING STABILIZATION UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED.
  - CAN BE USED ALONG THE PERIMETER OF A PROJECT, AS A CHECK DAM IN UNLINED DITCHES AND AROUND TEMPORARY STOCKPILES.
  - SOCK CAN BE STAKED TO THE GROUND USING MILLOW CUTTINGS FOR ADDED REVEGETATION.
  - EROSION CAN OCCUR BENEATH AND BETWEEN SOCK IF NOT PROPERLY ENTRENCHED, ALLOWING WATER TO PASS BELOW AND BETWEEN SOCKS. IT IS THEREFORE VERY IMPORTANT TO INSTALL SOCKS CORRECTLY.
  - THEY CAN REPLACE SEDIMENT FENCE ON STEEP SLOPES.
  - ROLLS ARE A SHORT-TERM SOLUTION TO HELP ESTABLISH NATIVE VEGETATION.
  - ROLLS STORE MOISTURE FOR VEGETATION PLANTED IMMEDIATELY UPSLOPE.
  - PLASTIC NETTING WILL EVENTUALLY PHOTO-DEGRADE, ELIMINATING THE NEED FOR RETRIEVAL OF MATERIALS AFTER THE FIBER OR STRAW HAS BROKEN DOWN.
- CONSTRUCTION SPECIFICATIONS:**
- IT IS CRITICAL THAT SOCK IS INSTALLED PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE CONTOUR.
  - NARROW TRENCHES SHOULD BE DUG ACROSS THE SLOPE, ON CONTOUR, TO A DEPTH OF 3 TO 5 INCHES ON CLAY SOILS AND SOILS WITH GRADUAL SLOPES. ON LOOSE SOILS, STEEP SLOPES, AND DURING HIGH RAINFALL EVENTS, THE TRENCHES SHOULD BE DUG TO A DEPTH OF 5 TO 7 INCHES, OR 1/2 TO 2/3 OF THE THICKNESS OF THE SOCK.
  - START CONSTRUCTION OF TRENCHES AND INSTALLING SOCK FROM THE BASE OF THE SLOPE AND WORK UPHILL. EXCAVATED MATERIAL SHOULD BE SPREAD EVENLY ALONG THE UPHILL SLOPE AND COMPACTED USING HAND TAMPING OR OTHER METHOD. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF 3 TO 30 FEET APART DEPENDING ON THE STEEPNESS OF THE SLOPE, SOIL TYPE, AND RAINFALL. THE STEEPER THE SLOPE THE CLOSER TOGETHER THE TRENCHES SHOULD BE CONSTRUCTED.
  - INSTALL THE SOCK SNUGLY INTO THE TRENCHES AND ABUT TIGHTLY END TO END. DO NOT OVERLAP THE ENDS.
  - INSTALL STAKES AT EACH END OF THE SOCK, AND AT 4-FOOT CENTERS ALONG THE ENTIRE LENGTH OF THE SOCK.
  - IF REQUIRED, INSTALL PILOT HOLES FOR THE STAKES USING A STRAIGHT BAR TO DRIVE HOLES THROUGH THE SOCK AND INTO THE SOIL.
  - AT A MINIMUM, WOODEN STAKES SHOULD BE APPROXIMATELY 2 X 2 X 24 INCHES. MILLOW CUTTINGS OR 3/8-INCH REBAR CAN ALSO BE USED FOR STAKES.
  - STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE SOCK, LEAVING 2 TO 3 INCHES OF THE STAKE PROTRUDING ABOVE THE SOCK.
- 6A COMPOST FILTER SOCK**  
NTS

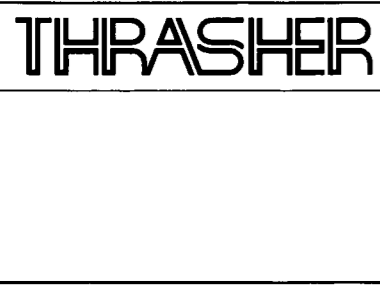
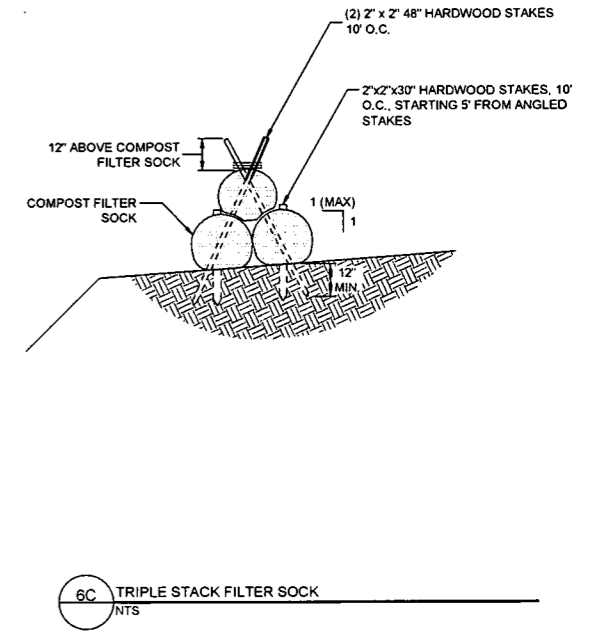
**MAINTENANCE:**

- INSPECT SOCK AT LEAST ONCE A WEEK AND AFTER EACH RAIN EVENT GREATER THAN 0.5 INCH.
- REPAIR OR REPLACE SPLIT, TORN, RAVELING, OR SLUMPING SOCK.
- REMOVE SEDIMENT ACCUMULATIONS WHEN EXCEEDING 1/2 THE HEIGHT BETWEEN THE TOP OF THE SOCK AND THE GROUND SURFACE.
- REPAIR ANY RILLS OR GULLIES PROMPTLY.
- RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.

Slope Percent	Maximum Slope Length Above Sediment Control in Feet (meters)*				
	8 in (203 mm) Sediment control	12 in (305 mm) Sediment control	14.5 in (368 mm) Sediment control	18 in (457 mm) Sediment control	22 in (559 mm) Sediment control
2 (or less)	800 (244)	750 (229)	1000 (305)	1300 (400)	1550 (500)
5	400 (122)	500 (152)	550 (168)	650 (200)	750 (229)
10	200 (61)	250 (76)	300 (91)	400 (122)	500 (152)
15	140 (43)	170 (52)	200 (61)	225 (69)	250 (76)
20	100 (30)	125 (38)	140 (43)	160 (49)	200 (61)
25	80 (24)	100 (30)	110 (33)	130 (39)	175 (53)
30	60 (18)	75 (23)	80 (24)	100 (30)	130 (39)
35	50 (15)	60 (18)	65 (20)	80 (24)	100 (30)
40	40 (12)	50 (15)	55 (17)	70 (21)	90 (27)
45	30 (9)	40 (12)	45 (14)	60 (18)	80 (24)
50	20 (6)	30 (9)	35 (11)	50 (15)	70 (21)

\* Based on a failure point of 36 in (914 mm) super silt fence (wire reinforced) at 1000 ft (305 m) of slope, watershed width equivalent to receiving length of sediment control device, 1 in (25 mm) (1 in) rain event.  
 \*\* Effective height of Sediment control after installation and with constant head from runoff as determined by Ohio State University.

**6B COMPOST FILTER SOCK**  
NTS



**IFP**  
ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

REVISION			
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JLL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JLL

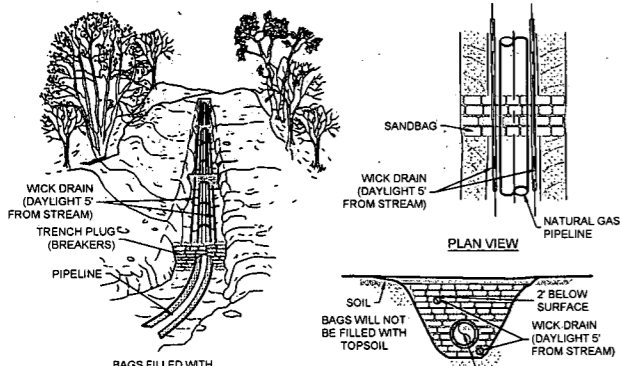
**GENERAL INFORMATION**

1. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE ESCP DETAILS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924  
 SCALE: AS SHOWN  
 DRAWN BY: JLL (TTC)  
 CHECKED BY: AR, JRH (TTC)  
 SHEET 70  
 SHT. NAME: 050-6321\STRICKLING\ESCP3 REV. 2

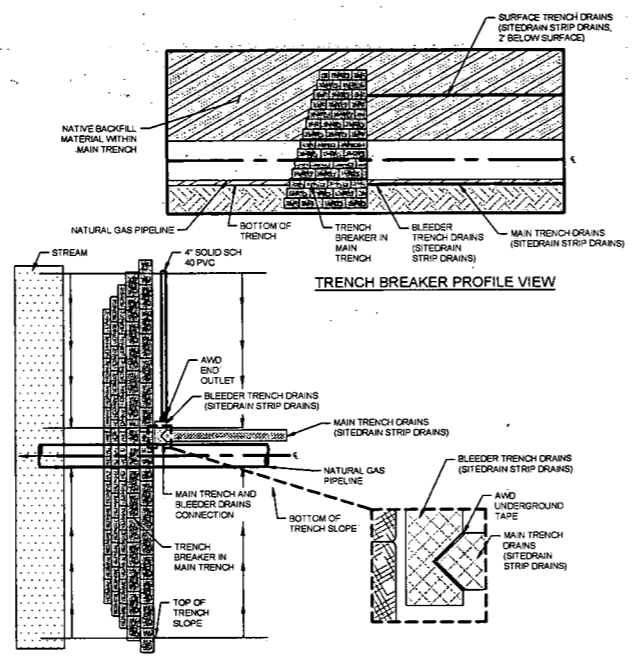


**TRENCH BREAKER (PLUG) SPACING (FEET)**

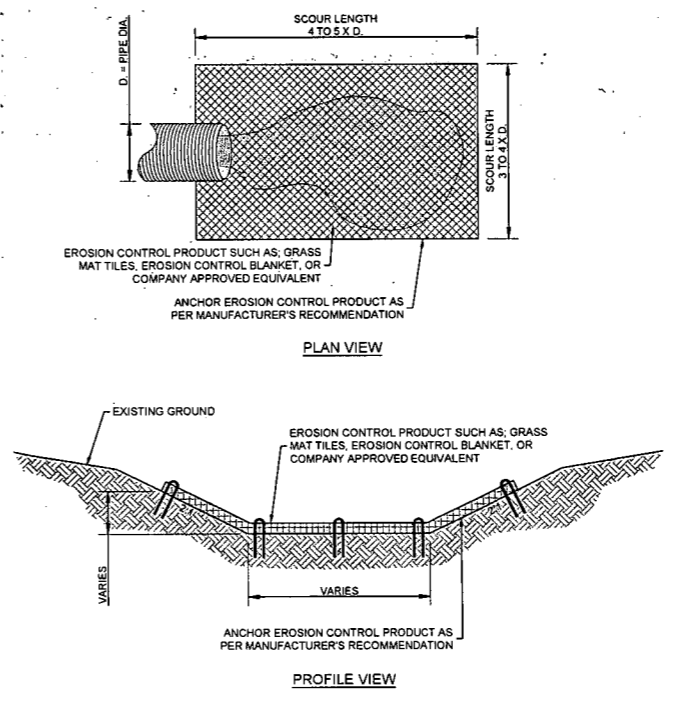
ALIGNMENT SLOPE %*	SPACING L (FT)	PLUG MATERIAL
< 5 %	1,000	** EARTH FILLED BAGS
5-15 %	500	** EARTH FILLED BAGS
15-25 %	300	** EARTH FILLED BAGS
25-35 %	200	** EARTH FILLED BAGS
35-100 %	100	** EARTH FILLED BAGS
>100 %	50	** USE CEMENT FILLED BAGS TWETTED FOR ROCKY AREAS

\* TRENCH BREAKERS (PLUGS) ARE REQUIRED AT ALL STREAM, RIVER, OR WATER-BODY CROSSINGS REGARDLESS OF TRENCH SLOPE.  
 \*\* TOP SOIL MAY NOT BE USED TO FILL BAGS. TRENCH BREAKERS (PLUGS) WITH CEMENT FILLED BAGS SHALL BE INSTALLED AND ALLOWED TO CURE WITHOUT ANY SURFACE WATER COMING INTO CONTACT WITH THEM. CONTRACTOR SHALL VERIFY CEMENT HAS CURED AND HARDENED PRIOR TO REMOVING ANY BMPs AROUND THE TRENCH BREAKER (PLUG) AREA.  
 \*\*\* TRENCH BREAKERS WITH CEMENT FILLED BAGS SHALL BE INSTALLED AND ALLOWED TO CURE WITHOUT ANY SURFACE WATER COMING INTO CONTACT WITH THEM. CONTRACTOR SHALL VERIFY CEMENT HAS CURED AND HARDENED PRIOR TO REMOVING ANY BMPs AROUND THE TRENCH BREAKER AREA.

7 PERMANENT TRENCH BREAKER  
NTS

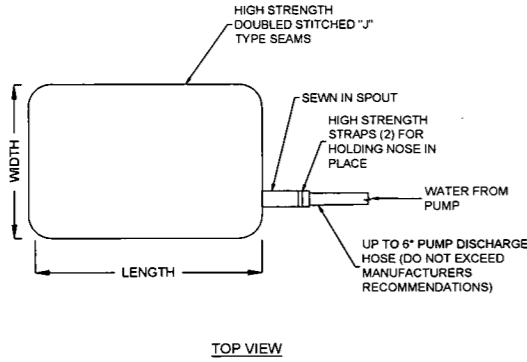


8 AMERICAN WICK DRAIN DETAIL  
NTS



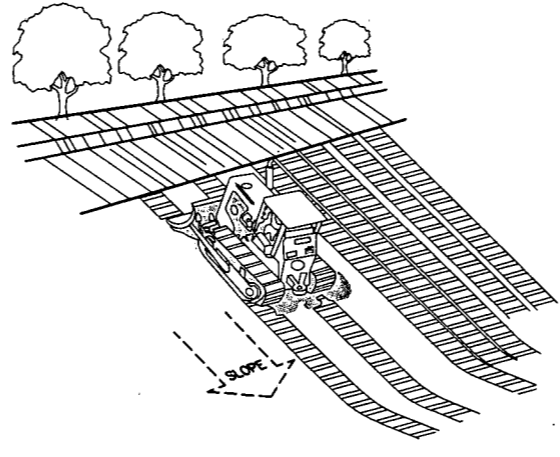
9 TRENCH PLUG DRAIN OUTFALL EROSION PROTECTION DETAIL  
NTS

**NOTES:**  
 1) PREPARE SOIL BEFORE INSTALLING EROSION CONTROL PRODUCTS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.  
 2) FOR CULVERT AND OUTFALL APPLICATIONS, SCOUR PROTECTION SHOULD EXTEND A MINIMUM WIDTH OF 3-4 TIMES THE PIPE DIAMETER AND A MINIMUM LENGTH OF 4-5 TIMES THE PIPE DIAMETER (SEE PLAN VIEW). WITH STEEPER CHANNEL GRADIENTS, THE LENGTH OF SCOUR PROTECTION MAY NEED TO BE EXTENDED.  
 3) PLACE STAPLES/ANCHORS IN THE APPROPRIATE PATTERN. IN SOFT OR HIGHLY ERODIBLE SOILS, PERCUSSION EARTH ANCHORS MAY BE REQUIRED.  
 (SEE MANUFACTURERS RECOMMENDATIONS FOR ADDITIONAL INSTALLATION INSTRUCTIONS).

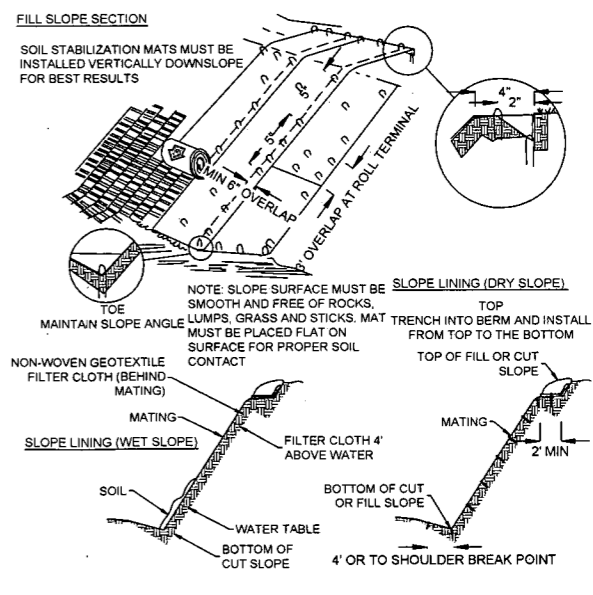


**NOTES:**  
 1. UTILIZE VEGETATED STRIP WHERE APPLICABLE.  
 2. MAXIMIZE DISTANCE BETWEEN LOCATION OF FILTER BAG AND AQUATIC FEATURE.  
 3. FILTER BAG MUST BE PLACED ON FLAT SURFACE.

10 FILTER BAG  
NTS



11 TRACKING  
NTS



12 ROLLED EROSION CONTROL PRODUCTS  
NTS

LAYOUT TAB: ESCPA  
 CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ESCP DETAIL SHEETS.dwg  
 USER: robert.j.luczko  
 PLOT DATE/TIME: 6/20/2017 10:28 AM

**THRASHER**  
**IFP**  
 ISSUED FOR PERMITTING  
 DATE: 06/07/2017  
 AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

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NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

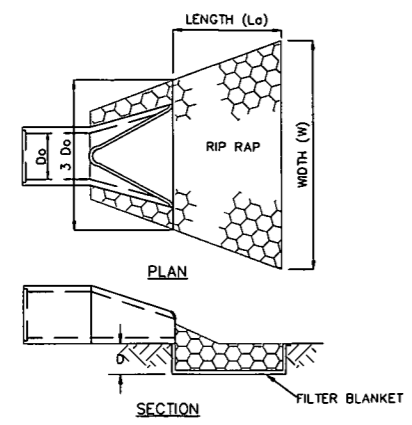
1. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JLA
2	REVISED PER COMMENTS FROM KLENFELDER, INC.	06/20/17	JLA

**Antero**  
 Midstream Partners LP  
**STRICKLING PIPELINE**  
**ESCP DETAILS**  
 PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
 DODDRIDGE COUNTY, WEST VIRGINIA

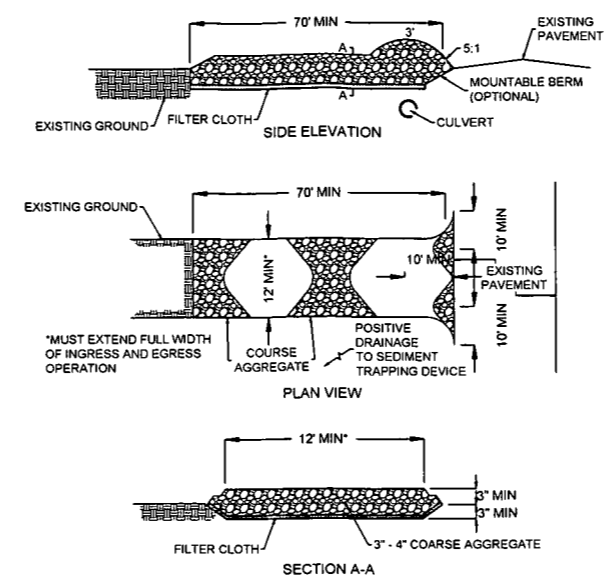
DATE: 6/20/2017  
 SCALE: AS SHOWN  
 DRAWN BY: JLA, R.A. (TTO)  
 CHECKED: AS, JRN (TTO)

SHEET 71  
 SHT. NAME: 050-6321\STRICKLING\ESCP4 REV. 2



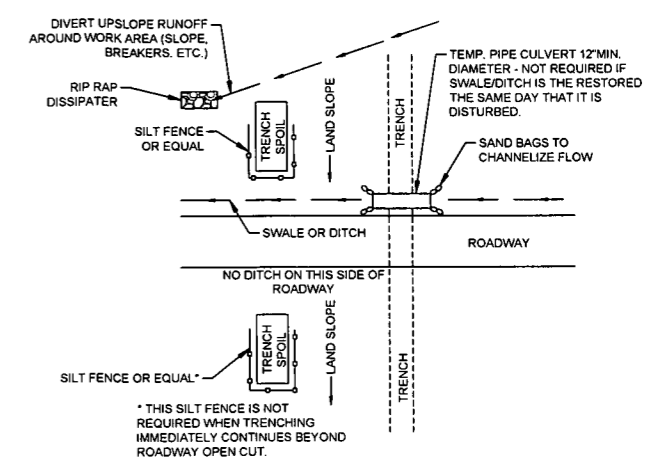
- NOTES:**
- IF FLARED END SECTION IS DISCHARGING INTO DITCH FROM THE SIDE, EXTEND RIP RAP UP DITCH BANK ON OFF-SIDE A MINIMUM OF 4 FEET
  - USE W/DEEP RIP RAP GRADATION AND FILTER BLANKET REQUIREMENTS PER SECTION 3.17 OF THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL
  - A SUITABLE NON-WOVEN GEOTEXTILE FABRIC, USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, MAY BE SUBSTITUTED FOR FILTER BLANKET STONE UNDER THE RIPRAP.
  - $s = 1.5$  TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".

13 RIP RAP APRON  
NTS

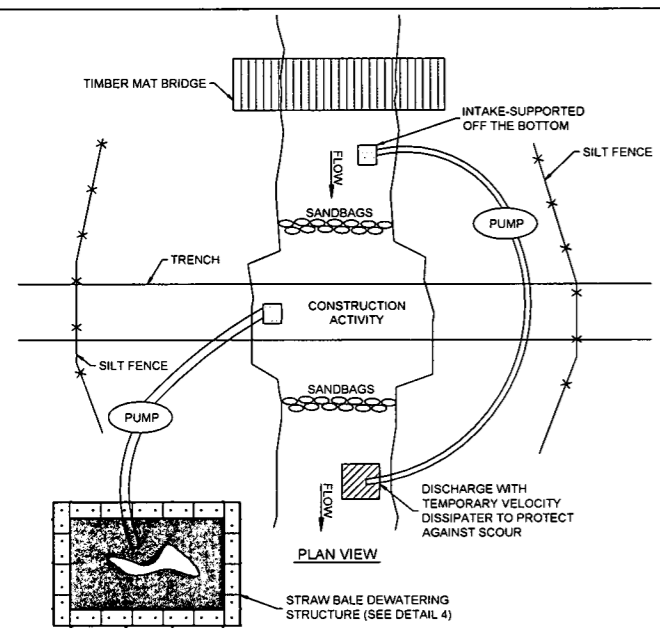


- CONSTRUCTION SPECIFICATIONS:**
- CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
  - PLACE THE 3 INCH CRUSHED ROCK TO MATCH FINISHED GRADE AT THE ROADWAY AND SMOOTH IT.
  - PROVIDE DRAINAGE WHERE NEEDED TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
  - IT IS RECOMMENDED TO HAVE A STOCKPILE OF STONE ON-SITE.
- MAINTENANCE:**
- MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP-DRESSING WITH ADDITIONAL 3 INCH CRUSHED ROCK. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS. MAINTENANCE SHOULD BE PROVIDED DAILY, BUT AT A MINIMUM EVERY SEVEN DAYS AND AFTER EVERY RAIN OF 0.5 INCH OR GREATER.

14 STABILIZED CONSTRUCTION ENTRANCE  
NTS

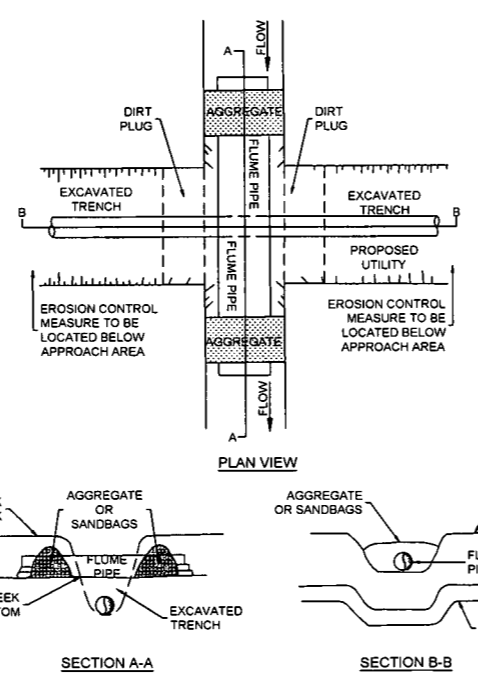


15 OPEN CUT ROAD CROSSING  
NTS

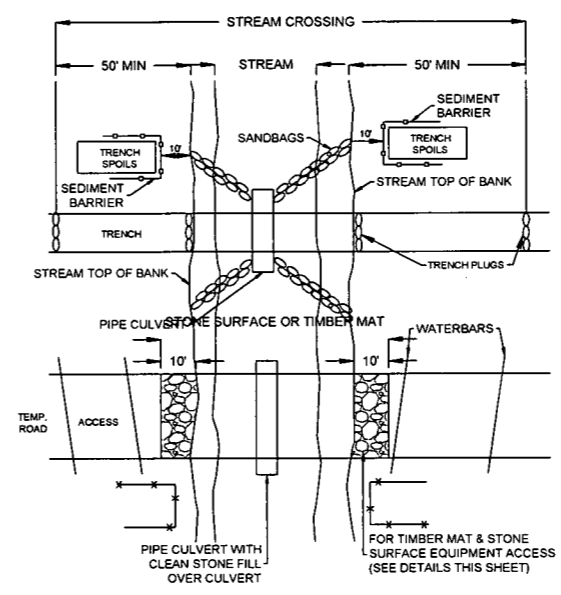


- NOTES:**
- DEWATERING STRUCTURE SHOULD BE PLACED IN WELL VEGETATED STRIP.
  - TOP 6"-12" OF NATURAL STREAM SUBSTRATE SHOULD BE ISOLATED DURING IN-STREAM TRENCHING AND RESTORED UPON COMPLETION OF FINAL STREAM STABILIZATION.
  - ENVIRONMENTAL INSPECTOR MUST VERIFY DAM AND PUMP AROUND SETUP.
  - MUST BE A MINIMUM OF 5 FEET OF COVER FROM TOP OF PIPE TO NATURAL GROUND.
  - PIPE SAG SECTION SHOULD BE WELDED PRIOR TO TRENCHING ACTIVITY COMMENCES.
  - ACCUMULATION OF TRENCH WATER MUST BE PUMPED TO DEWATERING STRUCTURE.
  - IN-STREAM WORK MUST BE COMPLETED WITHIN 24 HOURS (HIGH WATER MARK TO HIGH WATER MARK).
  - STREAM BUFFER AREA MUST BE RESTORED WITHIN 72 HOURS.

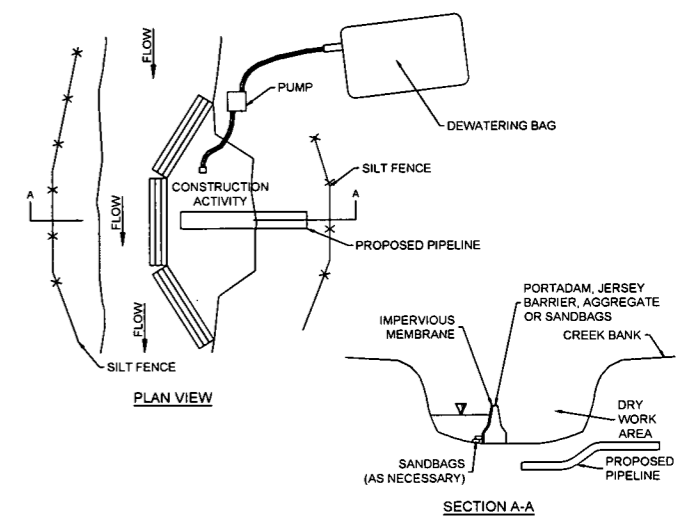
16 OPEN CUT STREAM CROSSING  
NTS



17 FLUME PIPE CROSSING  
NTS



18 FLUMED STREAM CROSSING WITH ACCESS ROAD  
NTS



19 COFFERDAM CROSSING  
NTS

**THRASHER**

IFP

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
NO.	DESCRIPTION	DATE BY
1	REVISION PER COMMENTS FROM ANTERO	06/07/17 JJA
2	REVISION PER COMMENTS FROM KLEINFELDER, INC.	06/20/17 AR

**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE ESCP DETAILS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924

SCALE: AS SHOWN

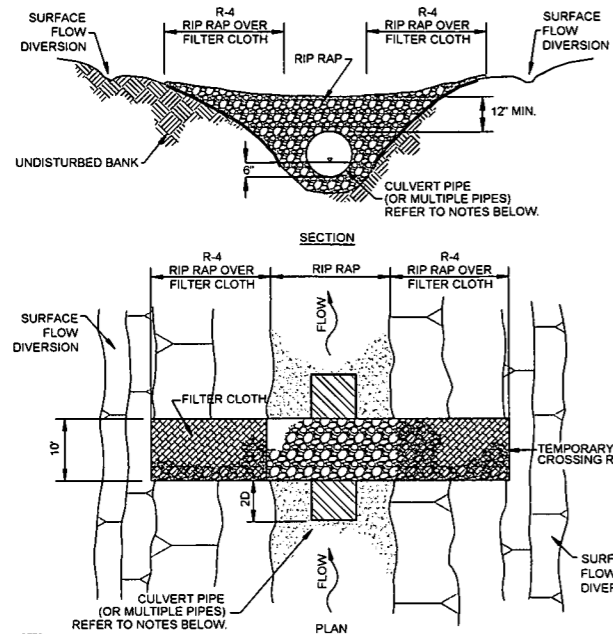
DRAWN BY: JJA, RJA (TTC)

CHECKED: AR, JSH (TTC)

SHEET 72

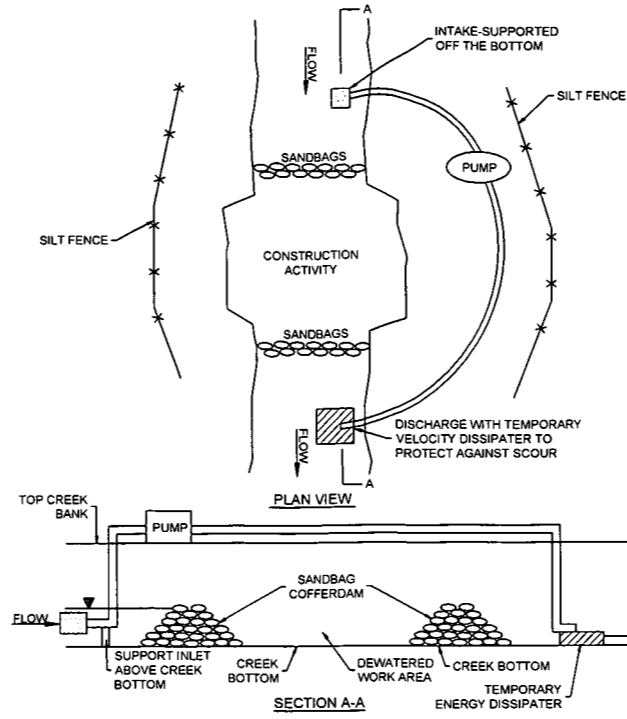
SHT. NAME: 050-6321\STRICKLING\ESCP5 REV. 2

LAYOUT TAB: ESCP5 CAD FILE: R:\050-6321-MEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ESCP DETAIL SHEETS.dwg USER: robert.j.luczko PLOT DATE/TIME: 6/20/2017 10:28 AM

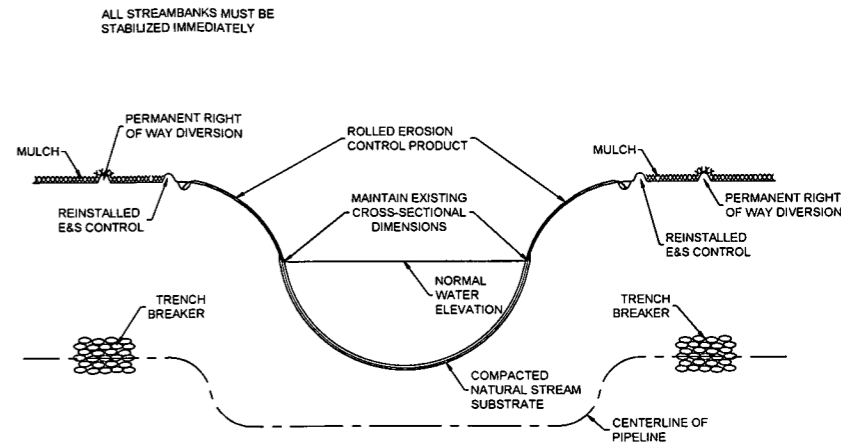


- NOTES:
- PIPE SHOULD EXTEND BEYOND TOE OF ROADWAY.
  - ROADWAY SHOULD BE DEPRESSED OVER CULVERT TO ALLOW FOR OVERFLOW.
  - CLEAN ROCK FILL SHALL BE USED TO GUARD AGAINST EROSION AND SEDIMENTATION. STREAMBED MATERIAL IS NOT TO BE USED.
  - MINIMUM SIZE DIAMETER CULVERT TO BE INSTALLED IS 12 INCHES.
  - APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 8 INCHES ABOVE ORIGINAL GRADE.
  - PROPER EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSTALLED.

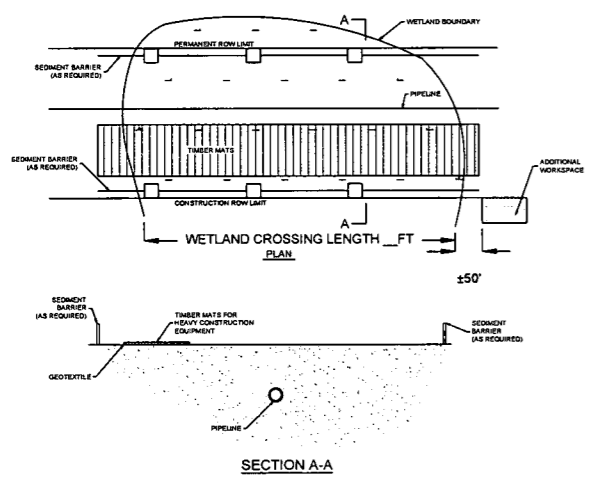
20 ROCK FLUME BRIDGE  
NTS



21 DAM & PUMP AROUND  
NTS

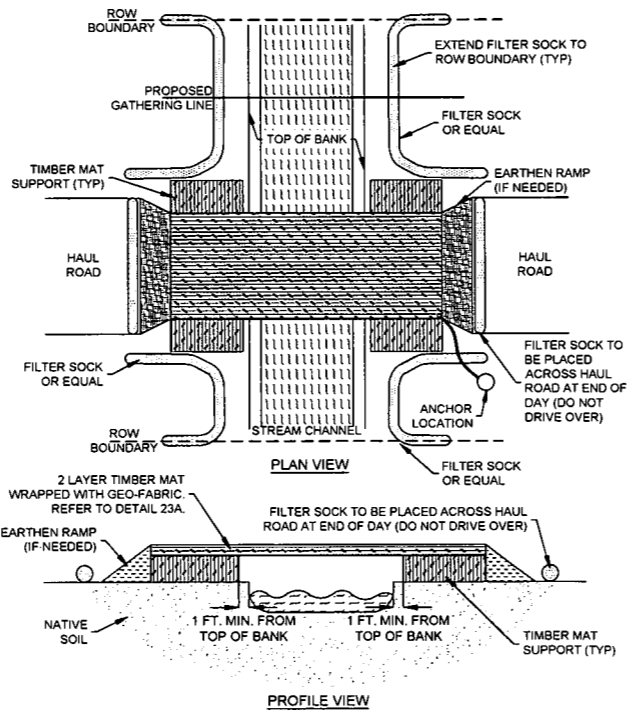


22 STREAM BANK STABILIZATION  
NTS

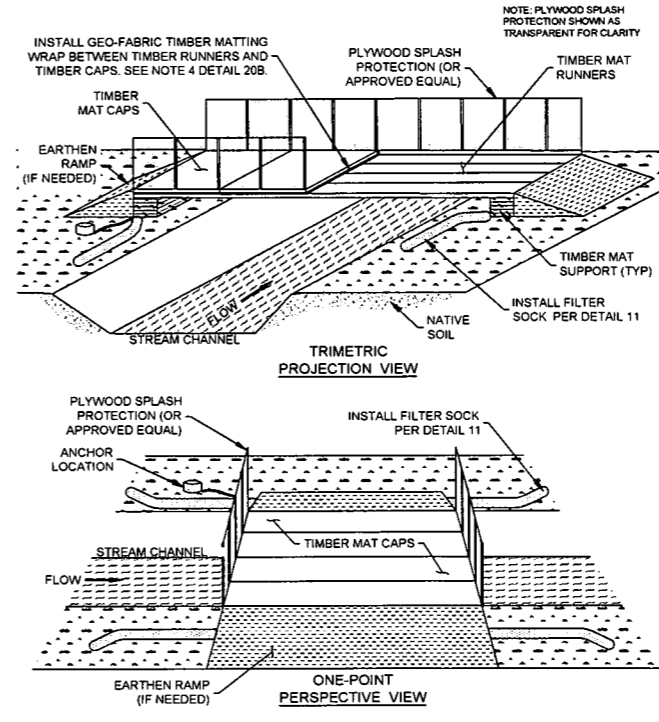


- GENERAL CONSTRUCTION SEQUENCE NOTES:
- INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS PRIOR TO EARTH DISTURBANCE.
  - SEDIMENT BARRIERS WILL BE INSTALLED AT THE EDGE OF THE ROW.
  - WORKING SIDE WILL BE STABILIZED WITH PRE-FABRICATED MATS, AS NEEDED TO PROVIDE A FIRM SURFACE FOR CONSTRUCTION EQUIPMENT FOR ALL DELINEATED WETLAND AREAS. GEOTEXTILE SHALL BE PLACED UNDER THE MATS TO PREVENT MOVEMENT OR PUMPING OF THE SOIL THROUGH THE MATS.
  - WETLAND MATERIAL WILL BE STRIPPED, SEGREGATED, AND RESTORED UPON COMPLETION OF THE CROSSING.

23 TYPICAL EROSION AND SEDIMENT CONTROL FOR WETLAND CROSSINGS  
NTS



24 TYPICAL EROSION AND SEDIMENT CONTROL FOR STREAM CROSSINGS  
NTS



24A TYPICAL EROSION AND SEDIMENT CONTROL FOR STREAM CROSSINGS  
NTS

CONSTRUCTION SPECIFICATIONS AND GENERAL SPECIFICATIONS:

- CROSSING ALIGNMENT SHALL BE AT RIGHT ANGLE TO THE STREAM. WHERE THE APPROACH CONDITIONS DICTATE, THE CROSSING MAY VARY 15 DEGREES FROM THE LINE DRAWN PERPENDICULAR TO THE CENTERLINE OF THE STREAM.
- TIMBER MATTING RUNNERS SHALL BE PLACED PERPENDICULAR TO STREAM AND ADJACENT TO ONE ANOTHER.
- TIMBER MATTING CAPS SHALL BE PLACED PARALLEL TO STREAM AND ADJACENT TO ONE ANOTHER FOR THE ENTIRE SPAN OF THE BRIDGE.
- TIMBER MATTING CAPS SHALL BE WRAPPED UNDERNEATH AND ALONG THE SIDES OF TIMBER MAT WITH GEO-FABRIC MATERIAL OR APPROVED EQUAL. EXTEND GEO-FABRIC MATERIAL AT MINIMUM 5 FEET ON EITHER SIDE TO ALLOW ENOUGH MATERIAL TO WRAP UP AND TIE INTO PLYWOOD SPLASH PROTECTION FENCING (OR APPROVED EQUAL) TO CONTROL SEDIMENT FROM ENTERING STREAM.
- PLYWOOD SPLASH PROTECTION FENCING (OR APPROVED EQUAL) SHALL BE SECURELY ATTACHED ALONG THE OUTER SIDES OF TIMBER MATTING TO CONTROL SEDIMENT COLLECTION AND ALLOW GEO-FABRIC MATERIAL TO BE STAPLED TO OUTSIDE OF PLYWOOD.
- BRIDGE SHALL BE CONSTRUCTED MINIMUM 1 FOOT OUTSIDE TOP OF BANK.
- BRIDGE SHALL BE SECURELY ANCHORED AT ONLY ONE END USING STEEL CABLE OR CHAIN. ACCEPTABLE ANCHORS ARE LARGE TREES, LARGE BOULDERS, OR DRIVEN STEEL ANCHORS. ANCHORING SHALL BE SUFFICIENT TO PREVENT THE BRIDGE FROM FLOATING DOWNSTREAM.
- ALL AREAS DISTURBED DURING BRIDGE INSTALLATION SHALL BE STABILIZED IMMEDIATELY.
- PLYWOOD SPLASH PROTECTION (OR APPROVED EQUAL) SHALL BE WELL MAINTAINED, CLEARING SEDIMENT WHEN NECESSARY.
- FILTER SOCK SHALL BE PLACED ALONG BOTH ENTRANCES OF THE BRIDGE WHEN NOT IN USE FOR MORE THAN 24 HOURS AND/OR PRIOR TO PRECIPITATION EVENTS. DO NOT DRIVE OVER FILTER SOCK.

LAYOUT TAB: ESCP6  
CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ESCP DETAIL SHEETS.dwg  
USER: robert.j.luczko  
PLOT DATE/TIME: 6/20/2017 10:28 AM

IFP  
ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

NO.	DESCRIPTION	QTY

NO.	DESCRIPTION	QTY

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO	06/07/17	JUL
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.	06/20/17	JK

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION

**Antero**  
Midstream Partners LP  
**STRICKLING PIPELINE**  
**ESCP DETAILS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924  
SCALE: AS SHOWN  
DRAWN BY: J.A. RAL (TRD)  
CHECKED: A.F. JOE (TRD)  
SHEET 73  
SHT. NAME: 050-6321\STRICKLING\ESCP6 REV. 2

LAYOUT TAB: ESCP7  
 CAD FILE: R:\050-6321-REC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ESCP DETAIL SHEETS.dwg  
 PLOT DATE/TIME: 6/20/2017 10:29 AM  
 USER: robert.j.luczko

Temporary Stabilization Seeding		
March 15 - September 15	Annual Rye	250 - 350 lbs per acre
September 15 - March 15	Annual Winter Wheat	100 - 125 lbs per acre

25 TEMPORARY SEEDING CHART  
NTS

Antero Midstream Default Pasture Mix (200 - 225 LBS per Acre)	
Named Variety of Forage Perennial Ryegrass	20%
Named Variety of Forage Tall Fescue (not Fawn)	20%
Climax Timothy	15%
Orchardgrass	10%
Birdsfoot Trefoil	10%
Medium Red Clover	5%
Ladino Clover	5%
Kentucky Bluegrass VNS	5%
Alsike Clover	5%
Alfalfa	5%
* All seed mixes require double inoculation	
Antero Midstream Default Wildlife Mix (150 - 175 LBS per Acre)	
Medium Red Clover	20%
Buckwheat	10%
Oats (Spring & Summer) or Wheat (Fall & Winter)	10%
Ladino White Clover	20%
Birdsfoot Trefoil	10%
Alfalfa	10%
Named Variety of Forage Perennial Ryegrass	10%
Annual Ryegrass	10%
* All seed mixes require double inoculation	
Antero Midstream General Contractor Mix (200 - 250 LBS per Acre)	
Named Variety of Forage Tall Fescue (not Fawn)	50%
Named Variety of Forage Perennial Ryegrass	20%
Annual Ryegrass	15%
Ladino Clover	5%
Alsike Clover	5%
Birdsfoot Trefoil	5%
* All seed mixes require double inoculation	

26 PERMANENT SEEDING CHART  
NTS

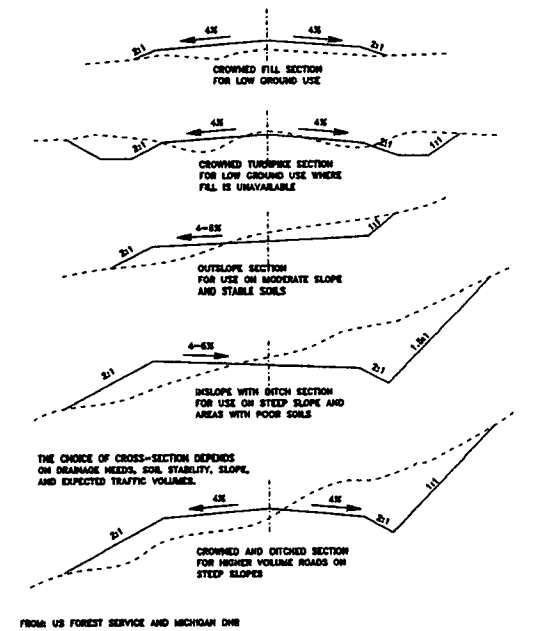
Lime
Pelletized
1.5 tons per acre

Fertilizer
10/20/20
200 lbs per acre

Straw Mulching
2 tons per acre

27 LIME, FERTILIZER, AND MULCH CHARTS  
NTS

**TYPES OF ROAD CROSS-SECTIONS**



28 TYPES OF ROAD CROSS-SECTIONS  
NTS



ISSUED FOR PERMITTING  
DATE: 06/07/2017  
AFE # A05924

**SUMMARY OF MATERIALS (3D)**

**SUMMARY OF MATERIALS (3D)**

**GENERAL INFORMATION**

1. THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" X 34"). FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

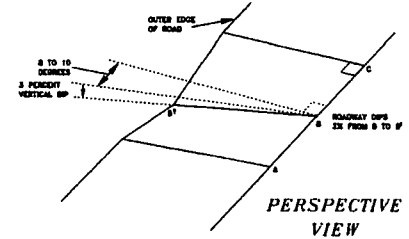


**STRICKLING PIPELINE ESCP DETAILS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE:	6/20/2017	AFE NO.:	A05924
SCALE:	AS SHOWN		
DRAWN BY:	JUL RA (TIG)	SHEET	74
CHECKED:	AR JRI (TIG)	SHT. NAME:	050-6321\STRICKLING\ESCP7
		REV.	2

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	DATE	BY
<b>REVISION</b>						
1	REVISED PER COMMENTS FROM ANTERO		06/07/17	JUL		
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.		06/20/17	JUL		

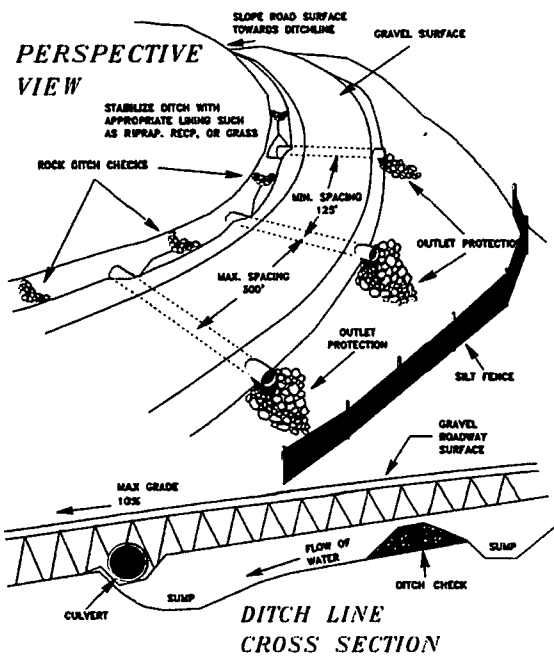


SPACING = 400/2% GRADE + 75'

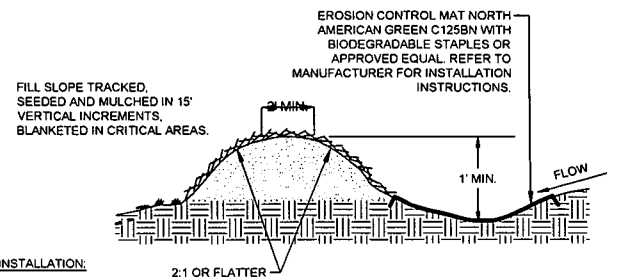
Table 3.35.1  
Average Slope of Watershed

Drainage Area (Acres)	Culvert Size			
	24"	48"	60"	72"
1-25	24	30	36	36
26-50	24	36	42	48
51-100	30	42	48	48
101-150	36	48	54	60
151-200	42	48	60	60
200-250	42	48	60	60
251-300	42	48	60	60
300-350	42	48	60	60
351-400	42	54	60	60
400-450	42	54	60	60
451-500	42	54	60	60
501-550	48	60	60	60
551-600	48	60	60	60
600-640	48	60	72	72

29 BROAD-BASE DIP  
NTS



30 EROSION AND SEDIMENT CONTROL FOR ACCESS ROADS AND DRIVEWAYS  
NTS

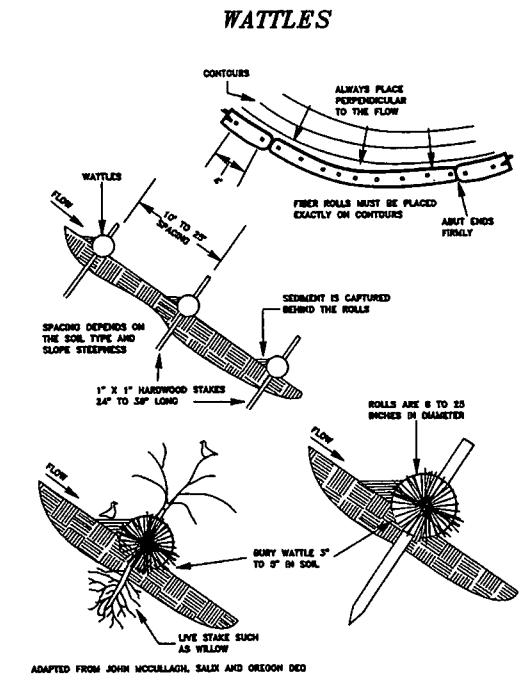


- INSTALLATION:**
- WHEN CLEARING THE LOCATION FOR THE DIVERSION, ONLY CLEAR ENOUGH ROOM FOR CONSTRUCTION AND MAINTENANCE EQUIPMENT ACCESS. DO NOT CLEAR ANY ADDITIONAL AREA UNTIL ALL EROSION CONTROL DEVICES ARE IN PLACE.
  - REMOVE ALL STUMPS, ROOTS, AND OTHER DEBRIS AND DISPOSE OF THEM PROPERLY.
  - INSTALL DIVERSION AND COMPACT AS SHOWN IN DETAIL INSURE POSITIVE DRAINAGE DURING CONSTRUCTION OF BERM.
  - SCARIFY, SEED, MULCH AND TACK DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF BERM.
  - INSTALL EROSION CONTROL MAT NORTH AMERICAN GREEN C125N PER MANUFACTURER'S RECOMMENDATIONS AND KEY INTO SIDES OF CHANNEL TO PREVENT WATER FROM UNDERMINING OR DAMAGING CHANNEL LINER.

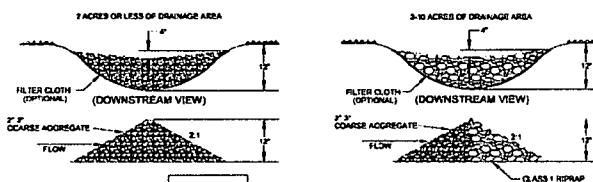
- NOTES:**
- TEMPORARY BERMS SHALL BE PLACED, MAINTAINED, AND ADJUSTED CONTINUOUSLY UNTIL 90% VEGETATIVE GROWTH IS ESTABLISHED ON THE EXTERIOR SLOPES WITH PERMANENT STORM DRAINAGE FACILITIES FUNCTIONING.
  - BERMS SHALL OUTLET TO SLOPE PIPES, CHANNELS, OR OTHER APPROVED MEANS OF CONVEYING RUNOFF TO A SEDIMENT TRAP, SEDIMENT BASIN, OR COLLECTOR CHANNEL.
  - CHANNEL BEHIND BERM SHALL HAVE POSITIVE GRADE TO OUTLET AND AN APPROPRIATE PROTECTIVE LINING.
  - BERM SHALL BE ADEQUATELY COMPACTED TO PREVENT FAILURE.
  - AN ACCEPTABLE ALTERNATIVE TO TOP-OF-SLOPE BERM IS TO CONTINUOUSLY GRADE THE TOP OF FILL TO DIRECT RUNOFF AWAY FROM THE FILL SLOPE TO A COLLECTOR CHANNEL, SEDIMENT TRAP, OR SEDIMENT BASIN.
- MAINTENANCE:**
- INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS. REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

31 TEMPORARY DIVERSION BERM FOR OFFSITE WATER  
NTS

FIGURE 3.06.1

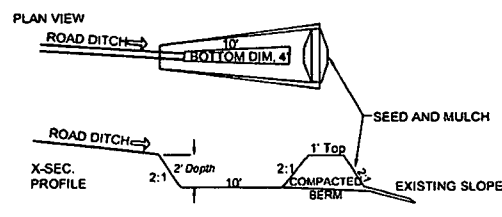


32 WATTLES  
NTS



33 CHECK DAM  
NTS  
DETAIL PROVIDED BY ANTERO MIDSTREAM LLC

**NOTES:**  
DITCH CHECKS WILL BE CONSTRUCTED IN CHANNELS TO MINIMIZE EROSION. THE CONSTRUCTION OF THE DITCH CHECK WILL FOLLOW THE GUIDELINES ABOVE. DITCH CHECKS WILL BE CONSTRUCTED SO THAT THE ELEVATION OF THE TOP OF THE DOWNSTREAM DITCH CHECK IS EQUAL TO THE ELEVATION OF THE BASE OF THE DITCH CHECK. ABOVE, THIS CREATES A SITUATION WHERE THE CHANNEL HAS NO CHANNELIZED FLOW PER SAY, THE WATER FLOWING DOWN THE DITCH WILL CASCADE FROM THE POOL CREATED BY ONE DITCH CHECK INTO THE POOL CREATED BY THE DOWNSTREAM DITCH CHECK THIS DISSIPATES ENERGY AND SLOWS THE WATER FLOW REDUCING EROSION AND ALLOWING ANY SEDIMENT IN THE DRAINAGE TO FALL OUT.

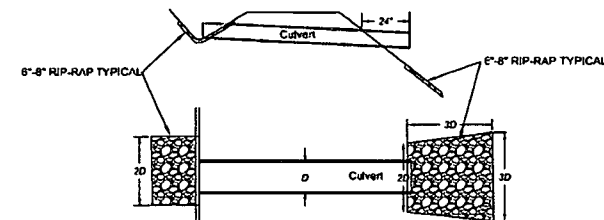


34 LEVEL SPREADER  
N.T.S.

**NOTE:** TO BE PLACED AT THE ENDS OF DITCHES CALLING FOR LEVEL SPREADERS. LEVEL SPREADERS WILL BE CUT INTO THE CONTOUR OF THE EXISTING SLOPE.

**NOTES:**  
LEVEL SPREADER TO BE CONSTRUCTED IN AREAS WHERE A CULVERT OR CHANNEL MUST EMPTY ONTO GROUND WITH NO ASSOCIATED CHANNELIZED FLOW. THE PURPOSE OF THE LEVEL SPREADER IS TO DISSIPATE ENERGY AND SPREAD THE FLOW OUT OVER A SIGNIFICANT AREA. THIS WILL TAKE A CHANNELIZED FLOW AND ESSENTIALLY CONVERT IT BACK TO A SHEET FLOW OVER THE GROUND SURFACE. THE SHEET FLOW WILL HAVE LESS CHANCE FOR EROSION CONSIDERING THE LOWER VELOCITIES AND FLOW VOLUMES IN ANY PARTICULAR AREA. THEY MAY BE CONSTRUCTED MUCH LIKE A SUMP WHERE THE CHANNEL OR CULVERT EMPTIES INTO THE SUMP AND THEN OVERTOPS THE BERMED AREA, BUT THEY MAY OFTEN CONTAIN GRAVEL IN THE SUMPED AREA. THEY WILL ALLOW BE CONSTRUCTED ALONG THE GROUND CONTOUR.

34 LEVEL SPREADER  
NTS  
DETAIL PROVIDED BY ANTERO MIDSTREAM LLC



35 TYPICAL CULVERT & CULVERT INLET/OUTLET PROTECTION  
N.T.S.  
DETAIL PROVIDED BY ANTERO MIDSTREAM LLC

**NOTES:**  
INLET AND OUTLET PROTECTION IS ESSENTIALLY GRAVELS AND/OR RIP RAP PLACED AT BOTH THE INLET AND OUTLET SIDES OF CULVERTS. THE GRAVELS WILL HELP TO SLOW THE FLOW OF WATER, AND DISSIPATE ENERGY. THIS WILL IN TURN DECREASE THE CHANCES OF EROSION AND ALSO ALLOW ANY SEDIMENT IN THE WATER TO SETTLE OUT.

LAYOUT TAB: ESCPB CAD FILE: R:\050-6321-WEC HP LOOP PHASE 2-ANTERO-Survey\PLANS\ESCP DETAIL SHEETS.dwg USER: robert.j.luczko PLOT DATE/TIME: 6/20/2017 10:30 AM

**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

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NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

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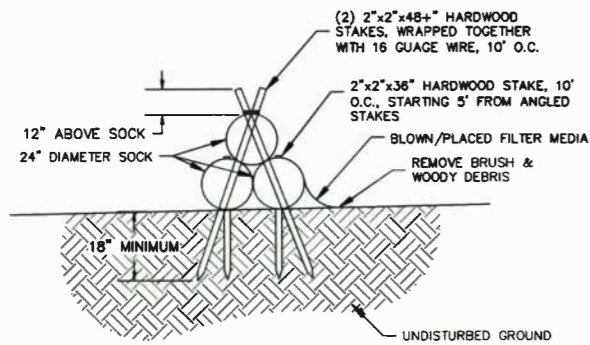
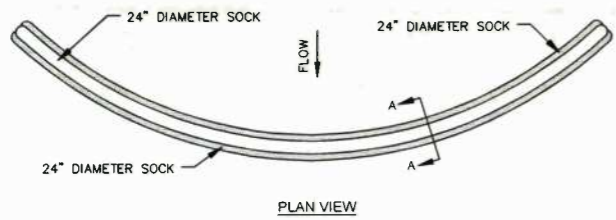
**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE ESCP DETAILS**

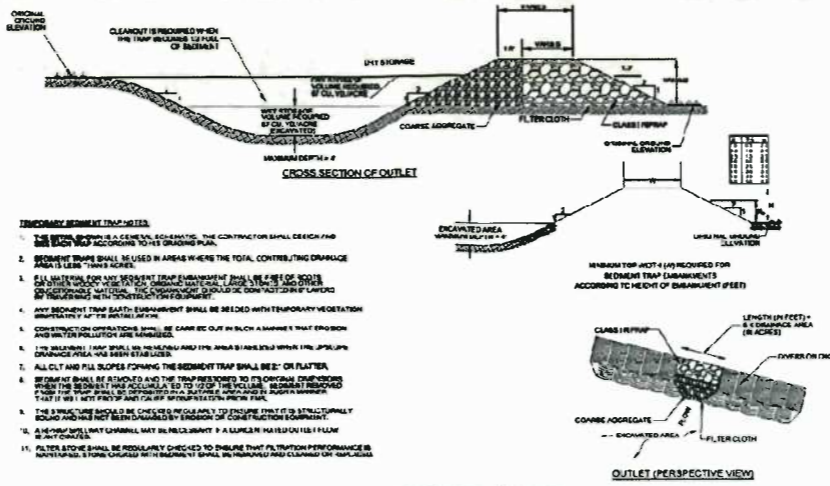
PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924  
SCALE: AS SHOWN  
DRAWN BY: JLN, R.A. (TTS) SHEET 75  
CHECKED BY: AS, JRN (TTS)

SHT. NAME: 050-6321\STRICKLING\ESCP8 REV. 2



36 TRIPLE STACK FILTER SOCK SEDIMENT TRAP  
NTS



**NOTES:**  
TEMPORARY SEDIMENT TRAPS ARE ESSENTIALLY SMALL SEDIMENT PONDS. THEY GIVE THE WATER A PLACE TO POOL AND SLOW DOWN THIS REDUCES THE CHANCES OF ADDITIONAL EROSION WHILE ALLOWING ANY SEDIMENT IN THE WATER TO SETTLE OUT. THE OUTLET IS DESIGNED OUT OF GRAVELS OF DIFFERENT DIMENSIONS WHICH CREATES A FILTER AS WELL.

37 TEMPORARY SEDIMENT TRAP  
DETAIL PROVIDED BY ANTERO MIDSTREAM LLC

**NOTES:**  
ON MOST LOCATIONS ANTERO WILL ALSO CONSTRUCT EROSION AND SEDIMENT (E&S) CONTROLS ABOVE AND BEYOND THE E&S CONTROLS LISTED ON THE PLAN SHEETS. THESE CONTROLS WILL BE CATEGORIZED AS PHASE I, PHASE II, AND PHASE III CONTROLS. THESE CONTROLS WILL BE INSTALLED TO BOTH PROVIDE EXTRA E&S PROTECTION, AND TO ELIMINATE THE CHANCES OF MATERIALS SUCH AS SOIL OR GRAVEL BEING PLACED IN A STREAM OR WETLAND. THE SITE PLANS AND DELINEATIONS ARE REVIEWED AND THESE CONTROLS ARE SPECIFIED IN ANTERO'S CONSTRUCTION RELEASE WHICH IS SENT OUT JUST PRIOR TO CONSTRUCTION BEGINNING. THE PHASE I, II, AND III CONTROLS WILL BE CONSTRUCTED AS FOLLOWS:



**PHASE I:**  
THIS IS ESSENTIALLY ORANGE SAFETY FENCE LIKE SHOWN ABOVE. THIS MEASURE IS PUT IN PLACE TO LET CONTRACTORS KNOW THAT NO WORK IS TAKE PLACE BEYOND THIS POINT. THIS CONTROL IS TYPICALLY UTILIZED WHEN THERE IS A WETLAND OR STREAM LOCATED IN THE AREA BUT NOT WITHIN APPROXIMATELY 100 FEET OF THE DISTURBANCE.

38A SUPPLEMENTAL 404 CWA BMP CONTROLS  
DETAIL PROVIDED BY ANTERO MIDSTREAM LLC



**PHASE II:**  
THIS CONTROL CONSISTS OF TYPICAL SILT FENCE, SUPER SILT FENCE, OR FILTER SOXX. THIS CONTROL WILL BE INSTALLED AS DESCRIBED IN THE PREVIOUS SECTIONS. THIS CONTROL WILL TYPICALLY BE USED WHEN WETLANDS OR STREAMS ARE LOCATED WITHIN 100 FEET OF THE DISTURBED AREA.

38B SUPPLEMENTAL 404 CWA BMP CONTROLS  
DETAIL PROVIDED BY ANTERO MIDSTREAM LLC



**PHASE III:**  
THIS CONTROL CONSISTS OF METAL Q-DECKING WHICH IS STOOD ON ITS EDGE AND SECURED TO METAL POSTS. THIS CONTROL IS USED TO PREVENT SOILS OR GRAVELS FROM ENTERING STREAMS OR WETLANDS DURING CONSTRUCTION. THE DECKING CAN BE BURIED OR USED IN CONJUNCTION WITH OTHER E&S METHODS. THIS CONTROL IS USED IN AREAS WHERE STREAMS OR WETLANDS ARE WITHIN APPROXIMATELY 50 FEET OF THE DISTURBED AREA. IF THE METAL DECKING IS BURIED NO OTHER E&S CONTROLS ARE REQUIRED, BUT IF THE DECKING IS PLACED ON TOP OF THE GROUND SURFACE AND ADDITIONAL E&S CONTROL SUCH AS SILT FENCE OR SILT SOXX WILL BE USED TO PROTECT THE GAPS BETWEEN THE BOTTOM OF THE DECKING AND THE UNEVEN GROUND SURFACE.

\*NOTE THAT THE DISTANCES MENTIONED IN THE PHASE I, II, AND III CONTROLS ARE A GUIDELINE NOT A RULE FOR THE DECISION OF WHEN AND WHERE TO USE THESE CONTROLS.

38C SUPPLEMENTAL 404 CWA BMP CONTROLS  
DETAIL PROVIDED BY ANTERO MIDSTREAM LLC

**DEFINITIONS:**

- RIP RAP** - LOOSE STONE USED TO FORM A FOUNDATION FOR A BREAKWATER OR OTHER STRUCTURE. THIS STONE IS TYPICALLY 3 INCHES OR GREATER IN DIAMETER.
- FILTER CLOTH** - TYPICALLY TYPAR OR ANOTHER SUCH MATERIAL (USUALLY WOVEN) WHICH IS DESIGNED TO ALLOW WATER TO FLOW BUT RETAIN SEDIMENT.
- AGGREGATE** - TERM USED TO IDENTIFY ANY TYPE SOLID DENSE MATERIAL USED DURING CONSTRUCTION TYPICALLY GRAVELS, SANDS, AND STONES.
- EMBANKMENT** - A WALL OR BANK OF EARTH OR STONE.
- CLASS 1 RIP RAP** - TYPICAL RIP RAP WITH STONES OF A DIAMETER BETWEEN 8 AND 18 INCHES.

39 DEFINITIONS  
DETAIL PROVIDED BY ANTERO MIDSTREAM LLC

**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

**SUMMARY OF MATERIALS (3D)**

NO.	DESCRIPTION	QTY

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NO.	DESCRIPTION	QTY

**GENERAL INFORMATION**

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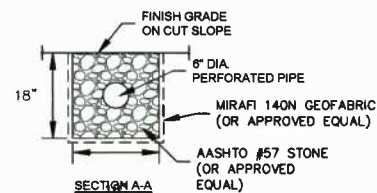
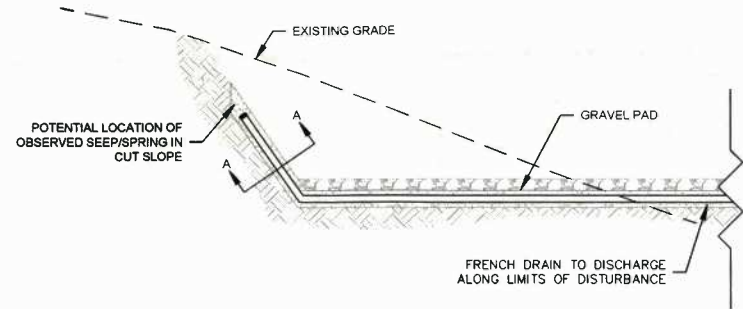
**Antero**  
Midstream Partners LP

**STRICKLING PIPELINE  
ESCP DETAILS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No.: A05924  
SCALE: AS SHOWN  
DRAWN BY: JLA, RJA (TIG)  
CHECKED: AR, JBN (TIG)  
SHEET 76  
SHT. NAME: 050-6321\STRICKLING\ESCP9 REV. 2

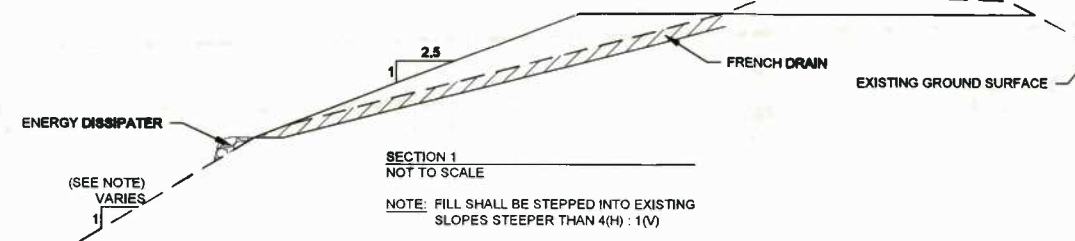




**NOTE:**

IF EVIDENCE OF A SEEP/SPRING IN A CUT SLOPE IS OBSERVED, THE CONTRACTOR SHOULD INSTALL A FRENCH DRAIN PER DETAIL 36 ABOVE.

40 FRENCH DRAIN AT OBSERVED SEEP/SPRING IN CUT SLOPES  
NTS



**NOTES:**

1. WHERE SPRINGS OR SEEPS ARE ENCOUNTERED DURING CONSTRUCTION, DRAINABLE FILL AND PERFORATED PIPES (FRENCH DRAINS) SHOULD BE INSTALLED TO PROVIDE A DRAINAGE PATH FOR SEEPAGE FROM THE EXISTING SLOPE.
2. THE FRENCH DRAIN SHOULD CONSIST OF A 6 INCH DIAMETER PERFORATED PIPE SURROUNDED BY DRAINABLE FILL. INSTALLED IN AN 18 INCH DEEP TRENCH ALONG THE EXISTING DRAINAGE FEATURE OR SEEP. PRIOR TO DRAINABLE FILL PLACEMENT, THE TRENCH SHOULD BE LINED WITH A LAYER OF GEOTEXTILE SUCH AS MIRAFI 140N, OR APPROVED EQUAL, WITH SUFFICIENT OVERLAP TO PROVIDE AN ENVELOPE AROUND THE PIPE TRENCH TO PREVENT THE MIGRATION OF FINES INTO THE FRENCH DRAIN.
3. THE FRENCH DRAIN SHOULD DAYLIGHT BEYOND THE TOE OR SIDE OF THE SLOPE AND EXTEND UP TO THE CREST OF THE SLOPE TO FACILITATE DRAINAGE THROUGH THE FILL SECTION. THE AS-BUILT WIDTH OF THE FRENCH DRAIN SHOULD BE A FUNCTION OF THE WIDTH OF THE SPRING, SEEP OR DRAINAGE FEATURE OBSERVED DURING CONSTRUCTION.
4. THE FRENCH DRAIN SHOULD BE CONSTRUCTED TO SPAN THE ENTIRE WIDTH OF THE OBSERVED SPRING OR SEEP.

41 FRENCH DRAIN AND DRAINABLE FILL SECTION AT OBSERVED SEEP/SPRING OR EXISTING DRAINAGE FEATURE LOCATION  
NTS



Typical Polymer Stabilized Fiber Matrix Application Rates

Maximum Rainfall of ≤ 20"	SLOPE						
SLOPE	6:1	5:1	4:1	3:1	2:1	1.5:1	1:1
Soil Stabilizer (gals/acre)	4	5	6	7	8	9	10
Fiber (lb/acre)	1,500	1,500	1,500	1,800	2,000	2,500	3,000

Maximum Rainfall of > 20" and for Site Winterization

SLOPE	≤5:1	4:1	≥3:1
Soil Stabilizer (gals/acre)	6	8	10
Fiber (lb/acre)	2,000	2,500	3,000

**NOTES:**

A BONDED FIBER MATRIX (BFM) IS AN EFFECTIVE METHOD OF STABILIZING STEEP SLOPES WHEN USED PROPERLY. BFM MAKE USE OF A CROSS-LINKED HYDROCOLLOID TACKIFIER TO BOND THERMALLY PROCESSED WOOD FIBERS. APPLICATION RATES VARY ACCORDING TO SITE CONDITIONS. FOR SLOPES UP TO 3H:1V THE BFM SHOULD BE APPLIED AT A RATE OF 3,000 LB/ACRE. STEEPER SLOPES MAY NEED AS MUCH AS 4,000 LB/ACRE.

BFM SHOULD ONLY BE USED WHEN NO RAIN IS FORECASTED FOR AT LEAST 48 HOURS FOLLOWING THE APPLICATION. THIS IS TO ALLOW THE TACKIFIER SUFFICIENT TIME TO CURE PROPERLY. ONCE PROPERLY APPLIED, A BFM IS TYPICALLY 90% EFFECTIVE IN PREVENTING ACCELERATED EROSION. BFM SHOULD NOT BE APPLIED BETWEEN SEPTEMBER 30 AND APRIL 1.

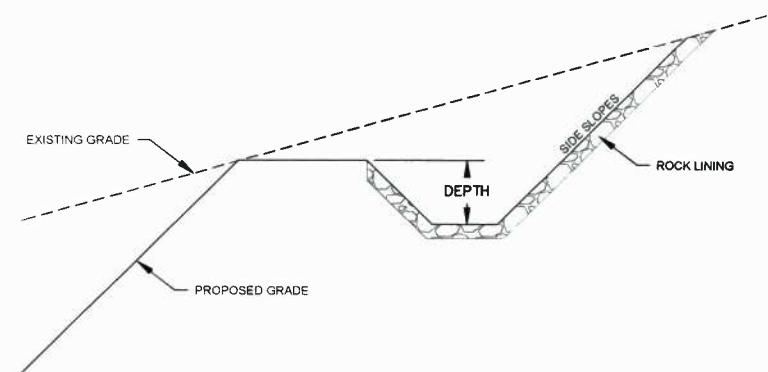
A POLYMER STABILIZED FIBER MATRIX (PSFM) CAN ALSO BE AN EFFECTIVE METHOD OF STABILIZING STEEP SLOPES WHEN USED PROPERLY. PSFM MAKE USE OF A LINEAR SOIL STABILIZING TACKIFIER THAT WORKS DIRECTLY ON SOIL TO MAINTAIN SOIL STRUCTURE, MAINTAIN PORE SPACE CAPACITY AND FLOCCULATE DISLODGED SEDIMENT THAT WILL SIGNIFICANTLY REDUCE RUNOFF TURBIDITY. PROPERLY APPLIED, A PSFM MAY BE AS MUCH AS 99% EFFECTIVE.

**NOTES:**

UNLIKE ROLLED BLANKETS, THERE IS NO NEED TO SMOOTH THE SLOPE PRIOR TO APPLICATION OF HYDRAULICALLY APPLIED BLANKETS. IN FACT SOME ROUGHENING OF THE SURFACE, EITHER NATURAL OR MECHANICALLY INDUCED, IS PREFERABLE. HOWEVER, LARGE ROCKS, THOSE > 9 INCHES, AND EXISTING RILLS SHOULD BE REMOVED PRIOR TO APPLICATION. TRACKING OR GROOVING OF SLOPES SHOULD BE CONSIDERED TO SLOW WATER FLOWS DURING A STORM EVENT. SLOPE INTERRUPTION DEVICES SUCH AS STAIR STEP GRADING OR BENCHING SHOULD BE APPLIED PRIOR TO THE APPLICATION. MIXING AND APPLICATION RATES SHOULD FOLLOW MANUFACTURER'S RECOMMENDATIONS.

HYDRAULICALLY APPLIED BLANKETS ARE TYPICALLY APPLIED IN TWO STAGES, UNLESS SPECIFICALLY RECOMMENDED TO BE APPLIED IN ONE APPLICATION BY THE MANUFACTURER. THE SEED MIXTURE AND SOIL AMENDMENTS SHOULD BE APPLIED FIRST. IF THE SEED IS APPLIED AT THE SAME TIME AS THE HYDRAULICALLY APPLIED BLANKET, THE BONDED FIBERS MAY KEEP THE SEED FROM MAKING SUFFICIENT CONTACT WITH THE SOIL TO GERMINATE. AFTER THE SEED MIXTURE IS APPLIED, THE BFM, FGM, OR PSFM SHOULD BE SPRAYED OVER THE AREA AT THE REQUIRED APPLICATION RATE. (SEE ABOVE TABLES)

42 BONDED FIBER MATRIX (HYDROMULCH)  
NTS



**NOTE:**

DRAINAGE CHANNEL DIMENSIONS AND LINING WILL BE DETERMINED BY ENGINEER AS APPLICABLE.

43 TYPICAL ROCK LINED CHANNEL  
NTS

**THRASHER**

**IFP**

ISSUED FOR PERMITTING

DATE: 06/07/2017

AFE # A05924

SUMMARY OF MATERIALS (3D)

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GENERAL INFORMATION

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**STRICKLING PIPELINE ESCP DETAILS**

PROPOSED 30" HIGH PRESSURE STEEL GAS LINE, 20" & 16" LOW PRESSURE STEEL GAS LINES  
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 6/20/2017 AFE No: A05924  
SCALE: AS SHOWN  
DRAWN BY: JIL, P.E. (TTG)  
CHECKED: AR, JRH (TTG)  
SHEET 77  
SHT. NAME: 050-6321\STRICKLING\ESCP10 REV. 2

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM ANTERO		06/07/17	JIL		
2	REVISED PER COMMENTS FROM KLEINFELDER, INC.		06/20/17	AR		