



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: #22-609

Date Approved: March 7, 2022

Expires: March 7, 2023

Issued to: Antero Midstream

POC: Daniel Bulian

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

Project Address: Right Fork Arnolds Creek Road West Union, WV 26456

Firm: 54017C0120C

Lat/Long: 39.253432N, -80.811234W

Purpose of Development: Pipeline

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

Date: March 7, 2022

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

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:

Gregory & Kristine L. Bonnell
2298 Arnolds Creek Road
West Union, WV 26456



9590 9402 4868 9032 9570 32

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Gregory D. Bonnell Agent
 Addressee

B. Received by (Printed Name) *Gregory D. Bonnell* C. Date of Delivery *2/14/22*

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)	

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

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:

Karlen Sue Browning
1899 Goose Creek Road
Waynesboro, VA 22980



9590 9402 4868 9032 9570 25

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 CSB me Agent
 Addressee

B. Received by (Printed Name) *Browning* C. Date of Delivery *2-14-22*

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
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<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	

PS Form 3811, July 2015 PSN 7530-02-000-9053


Domestic Return Receipt

COPY

COPY

COPY

COPY


KLEINFELDER OFFICE CHECKING 550 WEST C STREET SUITE 1200 SAN DIEGO, CA 92101		11760
PAY TO THE ORDER OF <u>Doddridge County Commission</u>		DATE <u>2/7/2022</u> 19-10/1250
<u>Five hundred eighty-nine and</u>		<u>00/100</u> DOLLARS
		
FOR <u>20800241.002A/12-0000</u>		<u>ANITA A KANNY</u>
⑈011760⑈ ⑈25000105⑈ ⑈5751986794⑈		

COPY

COPY


COPY

COPY

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> 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. 	<p>A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <input checked="" type="checkbox"/> <i>[Signature]</i></p> <p>C. Date of Delivery <input type="checkbox"/> <i>[Date]</i></p>																
<p>1. Article Addressed to:</p> <p style="text-align: center;">Angela D. Pratt 702 N. Oak Street Anmoore, WV 26323</p>  <p>9590 9402 4868 9032 9570 49</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p style="text-align: center; font-size: 2em;">FEB 14 2022</p>																
<p>2. Article Number (Transfer from service label)</p>	<p>3. Service Type 26323</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<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)	
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PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

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<p>1. Article Addressed to:</p> <p style="text-align: center;">Gerald C. & Juanita L. Turner 58 Turner Drive West Union, WV 26456</p>  <p>9590 9402 4868 9032 9570 56</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
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PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

FLOODPLAIN PERMIT #22-609

Antero Resources, Right Fork Arnolds Creek Road, Pipeline, 39.253432, -80.811234

TASK	COMPLETE (DATE)	NOTES
<i>CHECK RECEIVED</i>	2/9/2022	
<i>US ARMY CORP. ENGINEERS (USACE)</i>		
<i>US FISH & WILDLIFE SERVICES (USFWS)</i>		
<i>WV DEPT. NATURAL RESOURCES (WVDNR)</i>		
<i>WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)</i>		
<i>STATE HISTORIC & PRESERVATION OFFICE (SHPO)</i>		
<i>OFFICE of LAND & STREAM (OLS)</i>		
<i>WVDOH</i>		
<i>Elevation Certificate</i>		
<i>DATE OF COMMISSION READING</i>	2/15/2022	
<i>DATE AVAILABLE TO BE GRANTED</i>	3/7/2022	
<i>PERMIT GRANTED</i>		
<i>COMPLETE</i>		

7019 2280 0000 5315 9002

7019 2280 0000 5315 9019

7019 2280 0000 5315 9026

7019 2280 0000 5315 9033

7019 2280 0000 5315 9033

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

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ **3.75**

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

Return Receipt (hardcopy) \$ **3.05**

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ **.53**

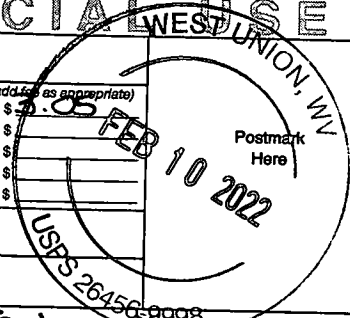
Total Postage and Fees \$ **7.33**

Sent To **Gerald C. & Juanita C. Turner**

Street and Apt. No., or PO Box No.
58 Turner Drive

City, State, ZIP+4®
West Union, WV 26456 22-609

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



7019 2280 0000 5315 9026

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

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ **3.75**

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

Return Receipt (hardcopy) \$ **3.05**

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ **.53**

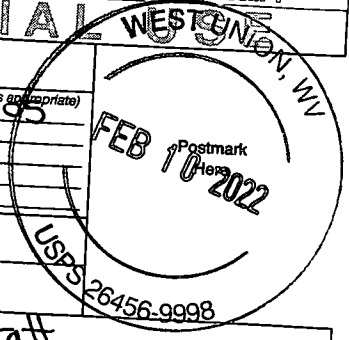
Total Postage and Fees \$ **7.33**

Sent To **Angela D. Pratt**

Street and Apt. No., or PO Box No.
702 N. Oak St.

City, State, ZIP+4®
Ammore, WV 26323 22-609

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



7019 2280 0000 5315 9019

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

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ **3.75**

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

Return Receipt (hardcopy) \$ **3.05**

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ **.53**

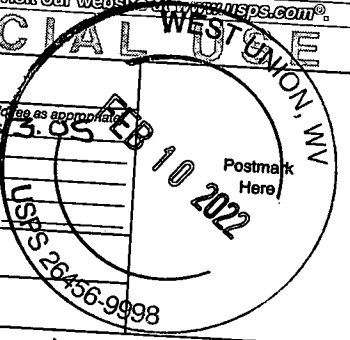
Total Postage and Fees \$ **7.33**

Sent To **Gregory & Kristine L. Bonnell**

Street and Apt. No., or PO Box No.
2998 Arnolds Creek Rd.

City, State, ZIP+4®
West Union, WV 26456 22-609

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



7019 2280 0000 5315 9002

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

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ **3.75**

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

Return Receipt (hardcopy) \$ **3.05**

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ **.53**

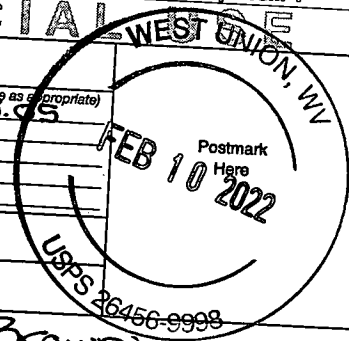
Total Postage and Fees \$ **7.33**

Sent To **Karlen Sue Browning**

Street and Apt. No., or PO Box No.
1899 Goose Creek Rd.

City, State, ZIP+4®
Waynesboro, VA 22980 22-609

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

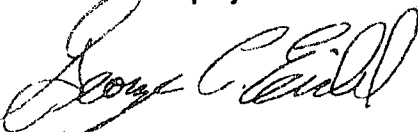




Doddridge County Floodplain Permits

(Week of February 14, 2022)

Please take notice that on the (9th) of (February), 2022, (Antero Resources) filed an application for a Floodplain Permit (#22-609) to develop land located at or about (Arnolds Creek Road, Right Fork); **Coordinates: 39.253432, -80.811234**. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (March 7 2022) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. **This project is for a new Oxford 98 pipeline project**

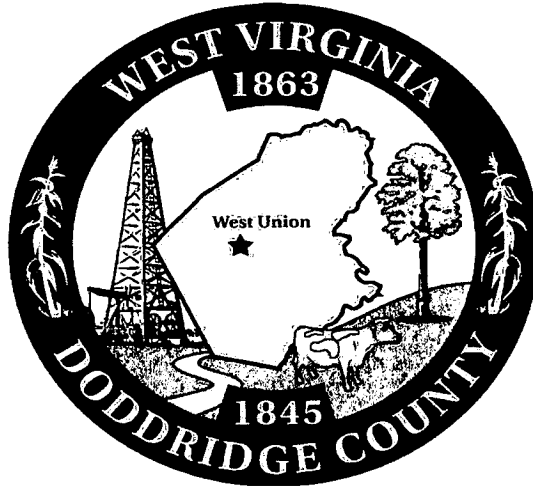


GEORGE C. EIDEL, CFM

Doddridge County Floodplain Manager



ATTACHMENT A FLOODPLAIN APPLICATION



Permit# 22-609
Project OXF 98 PIPELINE Name: _____
Permittees Name: Antero Resources

FILE 9 22 2:47PM

Doddridge County, WV

Floodplain Development Permit Application

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. The permit will expire if no work is commenced within six months of issuance.
5. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
6. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
7. 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 Daniel Bulian

DATE 02.08.2022

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: Antero Midstream		
Corporate Mailing Address: 1615 Wynkoop Street		
City: Denver	State: CO	Zip: 80202
Corporate Point of Contact (POC): N/A		
Corporate POC Title: N/A		
Corporate POC Primary Phone: N/A		
Corporate POC Primary Email: N/A		
Corporate FEIN: N/A	Corporate DUNS: N/A	
Corporate Website: www.anteroresources.com		
Local Mailing Address: 535 White Oaks Blvd		
City: Bridgeport	State: WV	Zip: 26330
Local Project Manager (PM): Daniel Bulian		
Local PM Primary Phone: (304) 842-4093		
Local PM Secondary Phone: N/A		
Local PM Primary Email: dbulian@anteroresources.com		
Person Filing Application: Daniel Bulian		
Applicant Title: Environmental Specialist III		
Applicant Primary Phone: (304) 842-4093		
Applicant Secondary Phone: N/A		
Applicant Primary Email: dbulian@anteroresources.com		

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)

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: <u> 1 </u> of <u> 1 </u>

Site/Property Information:		
Legal Description: Oxford 98 Pipeline		
Physical Address/911 Address: Arnolds Creek Rd, West Union, WV 26456 (Route 11)		
Decimal Latitude/Longitude: 39.253176, -80.811096		
DMS Latitude/Longitude:		
District: 8 (West Union)	Map: 19	Parcel: 8
Land Book Description: N/A		
Deed Book Reference: N/A		
Tax Map Reference: N/A		
Existing Buildings/Use of Property: Farm		

Floodplain Location Data: (to be completed by Floodplain Manager or designee)			
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> 1 </u>
--

Property Owner Data:		
Name of Primary Owner (PO): TURNER GERALD C & JUANITA L		
PO Address: 58 Turner Dr		
City: West Union	State: WV	Zip: 26456
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Surface Rights Owner Data:		
Name of Primary Owner (PO):		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

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

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: 1 of 1

Contractor/Sub--Contractor (C/SC) Information:		
C/SC Company Name: One contractor to be selected from the following: ACE Pipeline (#WV049594), Alex Paris Contracting (#WV001172), Integrity Kokosing Pipeline Services LLC (#WV050096).		
C/SC Company Name: See Above		
C/SC WV License Number: See Above		
C/SC FEIN: TBD	C/SC DUNS: TBD	
Local C/SC Point of Contact (POC): TBD		
Local C/SC POC Title: TBD		
C/SC Mailing Address: TBD		
City: TBD	State: TBD	Zip--Code: TBD
Local C/SC Office Phone: TBD		
Local C/SC POC Phone: TBD		
Local C/SC POC E--Mail: TBD		

Engineer Firm Information:		
Engineer Firm Name: The Thrasher Group, Inc.		
Engineer WV License Number: 23629		
Engineer Firm FEIN: N/A	Engineer Firm DUNS: N/A	
Engineer Firm Primary Point of Contact (POC): James Howes		
Engineer Firm Primary POC Title: Survey Project Manager		
Engineer Firm Mailing Address: 600 White Oaks Blvd		
City: Bridgeport	State: WV	Zip--Code: 26330
Engineer Firm Office Phone: 304-205-8802		
Engineer Firm Primary POC Phone: 304-288-7888		
Engineer Firm Primary POC E--Mail: jhowes@thethrashergroup.com		

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.

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): See Table of Adjacent Property Owners (Attachment B)		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

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

Adjacent Property Owner Data: Downstream		
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 access roads)*
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 will be properly attained, are current and valid, and must be presented prior to a Doddridge County Floodplain Permit being 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. 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.**
- 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 Doddridge County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

Applicant Signature: Daniel Bulian Date: 02.08.2022

Applicant Printed Name: Daniel Bulian



ATTACHMENT B
TABLE OF ADJACENT PROPERTY OWNERS

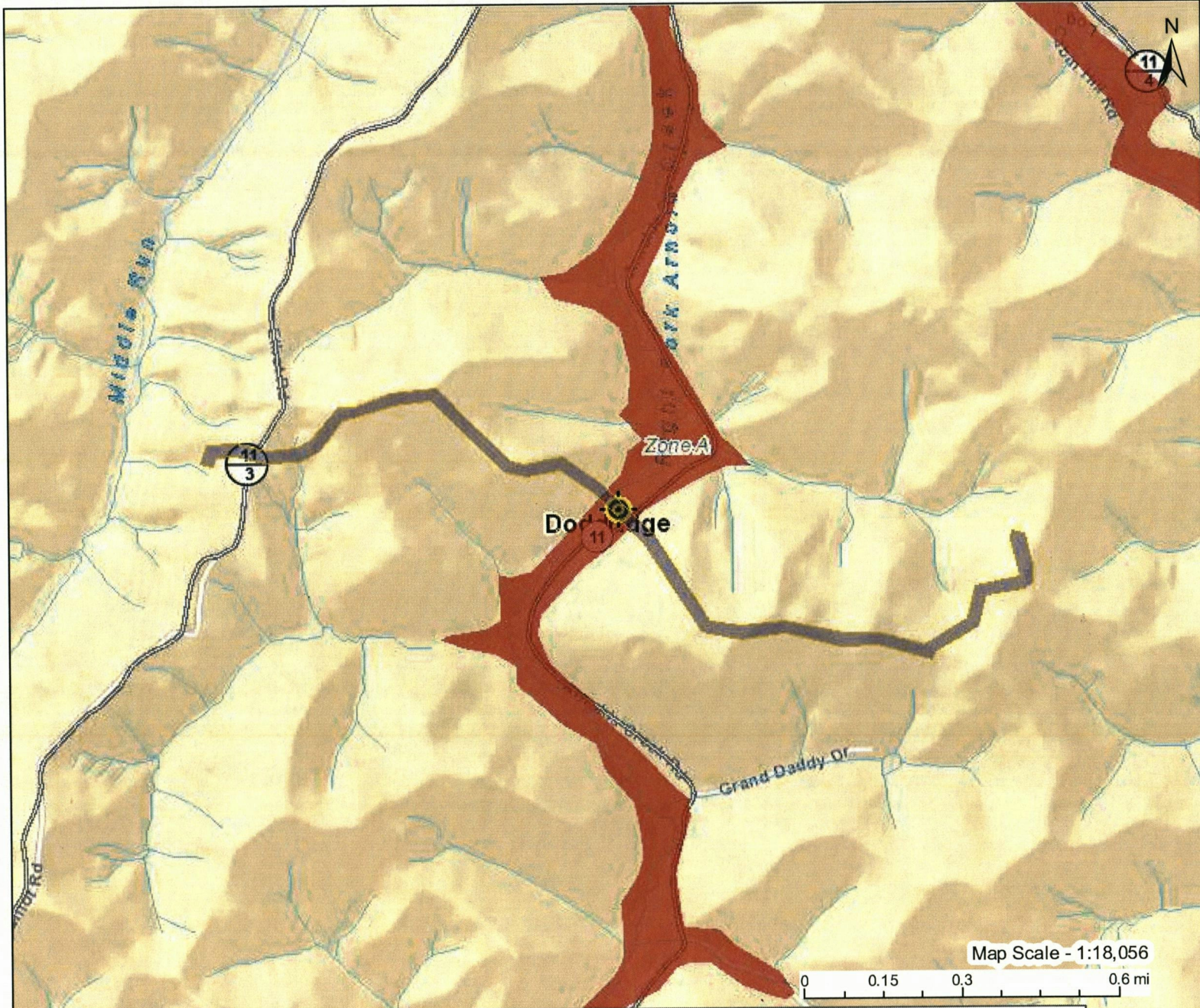
Table of Adjacent Property Owners

PROPERTY OWNER	PARCEL ID NUMBER	E-911 ADDRESS	PROPERTY OWNER ADDRESS	IN FLOODPLAIN
TURNER GERALD C & JUANITA L (SURV)	09-07-0013-0042-0000	2772 ELLIOT RD, WEST UNION, WV, 26456 2326 ARNOLDS CREEK RD, WEST UNION, WV, 26456 58 TURNER DR, WEST UNION, WV 26456 42 TURNER DR, WEST UNION, WV, 26456	58 TURNER DR, WEST UNION, WV 26456	Yes
PRATT ANGELA D	09-08-0019-0015-0000	1394 PUNKIN CENTER RD, WEST UNION, WV, 26456	702 N OAK ST, ANMOORE, WV 26323	Yes (Downstream)
TURNER GERALD C & JUANITA L (SURV)	09-08-0019-0008-0001	2260 ARNOLDS CREEK RD, WEST UNION, WV, 26456	58 TURNER DR, WEST UNION, WV 26456	Yes (Upstream)
BONNELL GREGORY & KRISTINE L (SURV)	09-08-0019-0008-0002	2298 ARNOLDS CREEK RD, WEST UNION, WV, 26456	2298 ARNOLDS CREEK RD, WEST UNION, WV 26456	Yes (Upstream)
BROWNING KARLEN SUE	09-08-0019-0014-0000	NO E-911 ADDRESS FOUND AT THIS PARCEL	1899 GOOSE CREEK RD, WAYNESBORO, VA 22980	Yes (Upstream)



ATTACHMENT C
WV FLOOD TOOL MAP

WV Flood Map - Oxford 98 Pipeline



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

H I G H R I S K	Regulatory Floodway	Legend Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf 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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.	Map created on 1/18/2022	
	Zone AE		User Notes Flood Hazard Area Location is WITHIN the FEMA 100-year floodplain.	
	Zone A		Flood Zone A Stream Right Fork Arnold Creek Watershed (HUC8) Little Musringum-Middle Island (5030201)	
	Advisory		Flood Height 6b None Water Depth Elevation 844.9 ft (Source: FEMA 2018-20) (NAVD88)	
		Community & ID Doddridge County (ID: 540024) FEMA Map & Date 54017C0120C; Effective Date: 10/4/2011 Location (lat, long) (39.253432, -80.811234) (WGS84) Parcel ID 09-08-0019-0008-0000 E-911 Address multiple addresses		



ATTACHMENT D
SITE PLANS

ANTERO MIDSTREAM

ISSUED FOR PERMITTING PLANS FOR THE

OXFORD 98 PIPELINE

PROPOSED 16" STEEL GAS LINE &

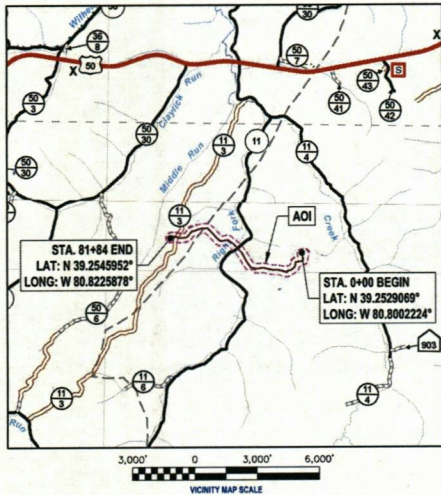
18" HDPE SURFACE WATER LINE

AFE #A08641

101-050-6935

DODDRIDGE COUNTY, WEST VIRGINIA

JANUARY 2022



APPROXIMATE SITE LOCATION

THRASHER



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

ALIGNMENT SHEETS PREPARED BY

BRIDGEPORT, WV OFFICE
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
(304) 824-4108
PO BOX 940

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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EXISTING INFORMATION SOURCES

BASE CONTOUR DATA PROVIDED BY OTHERS.

ROUTE INFORMATION AND LOCATION PROVIDED BY ANTERO.

SUPPLEMENTAL SPOT ELEVATIONS AND ALIGNMENT PROVIDED BY:

THE THRASHER GROUP
800 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>)

1-800-245-4848
TICKET # 1829235265



CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.
CALL 811.COM#811-IN-YOUR-STATE

THIS PLAN SET DEPICTS THE NECESSARY INFORMATION FOR EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY THE WVDEP FOR STORM WATER PERMITTING PURPOSES.

THE PIPELINE MATERIALS, ASSOCIATED APPURTENANCES, MATERIAL STRENGTHS, MACP CALCULATIONS, PIPELINE ROUTING, ETC. DEPICTED ON THESE DRAWINGS ARE AS PROVIDED TO THE THRASHER GROUP, INC. BY OTHERS. THRASHER WILL NOT ACCEPT ANY LIABILITY FOR THE APPROPRIATENESS, OR DESIGN, OR SAID MATERIAL, DEPICTED IN THESE PLANS.

THE AQUATIC RESOURCES DEPICTED ON THESE DRAWINGS ARE AS PROVIDED TO THE THRASHER GROUP, INC. BY OTHERS. THRASHER WILL NOT ACCEPT ANY LIABILITY FOR THE ACCURACY, OR COMPLETENESS, OF THE AQUATIC RESOURCES DEPICTED ON THESE PLANS.



R. ASHBEЕ SYKES, WV P.E. # 23629

ISSUED FOR PERMITS

DATE: 1/24/2022

BY: *[Signature]*

WVDOT GENERAL NOTES

- ALL CONSTRUCTION ON THE DIVISION OF HIGHWAYS RIGHT OF WAY WILL CONFORM TO THE FOLLOWING:
- THE FOLLOWING NOTES APPLY TO ALL PLAN SHEETS:
1. ALL METER SETTINGS ACROSS PAVED ROADS SHALL BE BORED OR MOLED, UNLESS OPEN CUT HAS BEEN APPROVED BY W.V.D.O.H. AND SPECIFICALLY INDICATED ON PLANS.
 2. NOTIFICATION OF PROPOSED EXCAVATION, DEMOLITION OR ANY OTHER EARTH DISTURBING ACTIVITIES ARE REQUIRED TO BE PLACED TO MISS UTILITY OF WEST VIRGINIA (1-800-245-4848) NOT LESS THAN FORTY EIGHT (48) BUSINESS HOURS BEFORE ANY SUCH WORK IS TO BEGIN.
 3. BEDDING SHALL BE PLACED ON ASPHALT SURFACE TO PROTECT THE PAVEMENT WHEN A TRENCHER OR TRACKED VEHICLE IS USED.
 4. THE WEST VIRGINIA DIVISION OF HIGHWAYS PUBLICATIONS "STANDARD SPECIFICATIONS ROADS AND BRIDGES" AND "ACCOMMODATIONS OF UTILITIES ON HIGHWAY RIGHT OF WAY" LATEST EDITION ARE PART OF THE SPECIFICATIONS AND WILL BE ADHERED TO BY THE CONTRACTOR.
 5. ALL DAMAGE TO ROAD SURFACE SHALL BE REPAIRED ACCORDING TO THE WEST VIRGINIA DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS AND DETAILS.
 6. ALL EXISTING DUMP ROCK OR RIP RAP DITCHES DISTURBED BY THE UTILITY LINE CONTRACTOR SHALL BE RESTORED WITH THE SAME SIZE, GRADE AND QUALITY OF ROCK AFTER THE UTILITY LINE HAS BEEN INSTALLED. NEW DUMP ROCK (RIP RAP) IS TO BE PLACED IN ALL LOCATIONS WHERE THE DITCH LINE GRADE IS GREATER THAN 5% AND THERE IS NO EXISTING RIP RAP.
 7. TRAFFIC CONTROL SHALL CONFORM TO THE W.V.D.O.H. PUBLICATION "TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE" OPERATION LATEST EDITION.
 8. ALL BACKFILL MATERIAL AND COMPACTION REQUIREMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THE ACCOMMODATION OF UTILITIES ON HIGHWAY RIGHT OF WAY AND ADJUSTMENT AND RELOCATION OF UTILITY FACILITIES ON HIGHWAY PROJECTS AND SUBJECT TO D.O.H. APPROVAL. EVIDENCE OF PROPER COMPACTION BY TESTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TESTING SHALL BE ONE (1) PER DAY OR EVERY 500 LINEAL FEET OR AS DETERMINED BY THE DISTRICT MANAGER (ENGINEER) OR HIS AUTHORIZED REPRESENTATIVE.
 9. UTILITY LINES SHALL BE PLACED EITHER AROUND, UNDER OR OVER DRAINAGE CULVERTS AS SHOWN ON PLANS.
 10. AGGREGATE SHOULDER STONE IS TO BE PLACED ON THE SHOULDER AT A THICKNESS EQUAL TO 6" OR ITS ORIGINAL THICKNESS WHICHEVER IS GREATER. PAVED SHOULDERS WILL BE PAVED.
 11. MAGNETIC MARKING TAPE SHALL BE INSTALLED AT A DEPTH OF 12" TO 18" BELOW THE SURFACE AND DIRECTLY ABOVE ALL LINES OR PIPES.
 12. REPAIR TO DRIVEWAYS ON W.V.D.O.H. RIGHT OF WAYS SHALL CONFORM TO THE APPROPRIATE W.V.D.O.H. TYPICAL REPAIR DETAIL.
 13. CLEANUP WILL BE ACCOMPLISHED DAILY. RIGHT OF WAYS SHALL CONFORM TO THE APPROPRIATE W.V.D.O.H. REPAIR. ALL CULVERTS AND DRAINAGE DITCHES SHALL BE OPEN AND MAINTAINED DURING CONSTRUCTION. SHOULDERS WILL BE RESTORED AND STABILIZED WITH STONE DAILY WITH APPROPRIATE STONE AT THE DISCRETION OF W.V.D.O.H.
 14. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED WITHIN SEVEN DAYS OF COMPLETION OF BACK FILL OPERATION.
 15. NO EXCESS EXCAVATION MATERIAL SHALL BE WASTED ON W.V.D.O.H. RIGHT OF WAYS WITHOUT THE AGREEMENT OF THE W.V.D.O.H.
 16. THE W.V.D.O.H. RESERVES THE RIGHT TO RELOCATE WATERLINES, FIRE HYDRANTS, AND VALVES AS DEEMED NECESSARY.
 17. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING UTILITY COMPANIES, PRIOR TO CONSTRUCTION TO OBTAIN UTILITY LOCATIONS AND PERFORMING EXPLORATORY WORK TO DETERMINE SUBSURFACE MATERIALS AND STRUCTURES THAT MAY AFFECT ITS WORK.
 18. PRIOR TO THE START OF ANY WORK WITHIN STATE HIGHWAY RIGHT-OF-WAY, THE CONTRACTOR SHALL GIVE THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION 48 HOURS NOTICE.
 19. THE CONTRACTOR IS RESPONSIBLE FOR ANY OFFSITE DISPOSAL REQUIRED. DISPOSAL SHALL BE TO AN ACCEPTABLE LEGAL SITE. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL AT DISPOSAL SITES.
 20. ALL ELEVATION GRADES AND DISTANCES SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR AT THE SITE PRIOR TO CONSTRUCTION.
 21. ALL CONSTRUCTION SHALL MAINTAIN 5' FROM EDGE OF PAVEMENT OR BOTTOM OF DITCH UNLESS NO OTHER PRACTICAL MEANS OF CONSTRUCTION EXISTS.
 22. PERFORM ACCEPTABLE REPAIR OF ANY AND ALL SUB-BASE FAILURES THAT ARE CAUSED BY THE CONTRACTOR'S OPERATION ON A DAILY BASIS.
 23. PERFORM TOTAL REPAIR AND/OR REPLACEMENT OF ANY DAMAGED ASPHALT SURFACE AS DETERMINED BY THE W.V.D.O.H REPRESENTATIVE.
 24. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL MAKE A COMPLETE VIDEO SHOWING THE ROAD SURFACE OF ALL ROADS TO BE UTILIZED AND PRESENT IT TO THE UTILITY SUPERVISOR W.V.D.O.H.
 25. REMOVE DITCH-LINE OBSTACLES AND/OR RECONSTRUCTION OF THE DITCH-LINE.
 26. IN THE CASE OF MANHOLES OR VALVES IF AT ALL POSSIBLE SHALL BE PLACED OUTSIDE THE ROADWAY, SHOULDER, OR DITCH LINE IF PLACED IN THE SHOULDER THERE IS TO BE A MINIMUM OF 6 INCHES OF COVER IN THE DITCH LINE THERE IS TO BE 12 INCHES OF COVER BETWEEN THE MANHOLE AND THE INVERT OF THE DITCH.
 27. ANY MANHOLES OR VALVES OR VALVE BOXES PLACED IN THE ROADWAY WILL BE ON THE SAME PLANE AS THE ROADWAY AND SET FLUSH WITH ROADWAY.
 28. ANY ROADS REQUIRING AN H.L.B.C. OVERLAY, FULL WIDTH OR PARTIAL, SHALL HAVE SHOULDER STONE FROM AN APPROVED SOURCE PLACED AS PER D.O.H. SPECIFICATIONS.
 29. THE DEPARTMENT OF HIGHWAYS REQUIRES THERE BE NO WORK WITHIN THE DEPARTMENT'S RIGHT-OF-WAY DURING SNOW AND ICE REMOVAL. THERE MAY BE EXCEPTIONS FOR EMERGENCY AND CASE BY CASE SITUATIONS WITH NOTIFICATION TO THE DEPARTMENT.

UTILITY AGENCIES SERVING AREA

MISS UTILITY
1-800-245-4848
TICKET # 1829235265

WEST VIRGINIA DIVISION OF HIGHWAYS
WVDOT DIST #4
P.O. BOX 4220
CLARKSBURG, WV 26301-4220
(304) 842-1500
(304) 842-1564 FAX

MIKE RONCONE - UTILITY SUPERVISOR - CROSSINGS
TARA CARDER - PERMIT SUPERVISOR - TEMP. ACCESSES

POWER
MON POWER
1-800-686-0022

CABLE
AT&T
1-304-216-4100

TELEPHONE
VERIZON TELECOMMUNICATIONS
1-800-275-2355

RESPONSE TEAMS:
NATIONAL RESPONSE CENTER FOR REPORTING CHEMICAL OR OIL SPILLS
1-800-424-8802

STATE EMERGENCY SPILL NOTIFICATION
1-800-642-3074

EMERGENCY AMBULANCE, FIRE, LAW ENFORCEMENT
911

GAS LINE CROSSINGS				
STATION	LAT	LONG	DESCRIPTION	PLAN SHEET #
5+93	39.251754	-80.800707	EX. GREYLOCK 2" GAS LINE	1
13+75	39.250479	-80.802583	EX. GREYLOCK 2" GAS LINE	1
14+24	39.250384	-80.802703	EX. ANTERO WHITE OAK LATERAL 20" STEEL GAS LINE	1
19+79	39.250629	-80.804569	EX. ECT GAS LINE	2
87+54	39.255683	-80.818247	EX. ECT GAS LINE	4
89+43	39.255541	-80.818879	EX. GREYLOCK GAS LINE	4
76+64	39.254634	-80.820945	EX. ANTERO WHITE OAK LATERAL 20" STEEL GAS LINE	4
76+85	39.254634	-80.821015	EX. ANTERO BEE LEWIS WEL CONNECT STEEL GAS LINE	4
77+45	39.254679	-80.821224	EX. DOMINION GAS LINE	4

WATER LINE CROSSINGS				
STATION	LAT	LONG	DESCRIPTION	PLAN SHEET #
14+09	39.250419	-80.802872	EX. ANTERO BEE LEWIS TO ADRIAN WATER LINE	1
76+33	39.254630	-80.820835	EX. ANTERO WATER LINE	4
76+43	39.254637	-80.820872	EX. ANTERO WATER LINE	4
76+53	39.254637	-80.820907	EX. ANTERO WATER LINE	4

DRAWING INDEX

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	DATE	BY
01	COVER			COVER SHEET		
02	GNOTS			GENERAL NOTES SHEET		
03	SPECS			GENERAL CONSTRUCTION SPECS SHEET		
04	INDEX			INDEX SHEETS		
05-08	PLAN1-PLAN4			PROPOSED ALIGNMENT PLAN AND PROFILE SHEETS		
09	HSP1			HYDROSTATIC PROFILE SHEET		
10-12	S&WC1-S&WC3			STREAM & WETLAND CROSSING SHEETS		
13-23	ESCP1-ESCP11			ESCP DETAIL SHEETS		

GENERAL NOTES

1. EXISTING UTILITIES SHOWN ON PLANS WHERE EVIDENCE HAS BEEN FOUND OR PROVIDED BY LOCAL UTILITIES. EXACT DEPTH AND LOCATION OF UTILITIES NOT KNOWN. CONTRACTOR TO VERIFY UTILITY LOCATIONS PRIOR TO CROSSING BY CONTACTING MISS UTILITY AT 1-800-245-4848 AND LOCAL UTILITY COMPANIES AS LISTED AND/OR NOT LISTED ON THIS SHEET. CONTRACTOR TO LOCATE WATER AND UTILITY SERVICES BEFORE BORING AND JACKING.
 2. IN THE EVENT AN ERROR WITH THE PLANS SEEMS APPARENT, THE MATTER MUST BE TAKEN UP WITH THE ENGINEER FOR REVIEW BEFORE PROCEEDING WITH CONSTRUCTION.
 3. ALL PERMITS MUST BE SECURED PRIOR TO CONSTRUCTION.
 4. THE CONTRACTOR SHALL COORDINATE ALL STREAM CROSSING INSTALLATIONS PROPOSED SO NOT TO DELAY THE CONSTRUCTION PROCESS. STREAM CROSSINGS ARE TO BE CONSTRUCTED USING AN OPEN CUT CROSSING METHOD UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 5. ALL PROPOSED PERMANENT FILL TO BE FILLED WITH STONE, NATURAL ROCK, OR A 20" CULVERT TO BE INSTALLED TO MAINTAIN STREAM FLOW.
 6. ALL WOOD ROAD CROSSINGS TO BE CONSTRUCTED USING AN OPEN CUT CROSSING METHOD UNLESS OTHERWISE SPECIFIED ON THE PLANS. WVDOT TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WORK WITHIN WVDOT R/W.
 7. ALL CONSTRUCTION TO BE DONE IN THE PROPOSED PIPELINE LIMITS OF DISTURBANCE AS SHOWN ON PLANS.
 8. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS PROVIDED IN A SEPARATE BOUND VOLUME.
 9. CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE TYPES AND O.D. PRIOR TO CONNECTION.
 10. PROPERTY LINES SHOWN ON PLANS 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.
- EROSION & SEDIMENT CONTROL NOTES**
1. ALL EROSION AND SEDIMENT MEASURES TO BE IN ACCORDANCE WITH WEST VIRGINIA ONLINE BMP MANUAL FOR STANDARD GUIDELINES AND SPECIFICATIONS AVAILABLE AT: [HTTPS://APPS.DEP.WV.GOV/DWIM/STORMWATER/BMP/INDEX.HTML](https://apps.dep.wv.gov/dwim/STORMWATER/BMP/INDEX.HTML)
 2. EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN SHOWN ON PLANS AND DETAILED IN SPECIFICATIONS.
 3. EXPOSED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BMPs THAT PROTECT THE SOIL FROM THE EROSIIVE FORCES OF RAINDROPS, FLOWING WATER, AND WIND.
 4. CLEARING AND GRUBBING IS TO OCCUR IN THE NOTED LIMITS OF DISTURBANCE (L.O.D.) ONLY.
 5. ALL GRADED AREAS THAT ARE AT FINAL GRADE MUST BE SEEDED AND MULCHED WITHIN 7 DAYS AND AREAS THAT WILL NOT BE WORKED AGAIN FOR 21 DAYS OR MORE MUST BE SEEDED AND MULCHED WITHIN 7 DAYS. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
 6. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
 7. TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH BMPs.
 8. EROSION AND SEDIMENT CONTROLS BMPs SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD, ANY NECESSARY OR REQUIRED REPAIRS SHOULD BE MADE IMMEDIATELY. ANTERO HAS ONLINE ACCESS TO SEVERAL RAIN GAUGE LOCATIONS IN THE GENERAL AREA OF EACH WORK LOCATION. THIS DATA WILL BE MONITORED AND USED BY INSPECTION PERSONNEL. USE OF ONLINE WEATHER TRACKING TOOLS MAY BE UTILIZED. RAINFALL DATA WILL BE RECORDED ON INSPECTION RECORDS.

CONSTRUCTION SEQUENCE OF EVENTS

1. CALL MISS UTILITY (1-800-245-4848)
2. INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES.
3. CONSTRUCTION OF PIPELINE WITH RESTORATIONS.
4. TESTING OF PIPELINE AND APPURTENANCES.
5. WORK CLOSE-OUT, PUNCH LIST, CLEAN UP, REPAIRS, FINAL SEEDING AND MULCHING, ETC..

LEGEND / ABBREVIATIONS

- = EXISTING PIPELINE VENT
 - = EXISTING GAS WELL (AS NOTED)
 - = EXISTING GAS METER
 - = EXISTING PIPELINE MARKER
 - = EXISTING GAS VALVE
 - = EXISTING MONUMENT FOUND (AS NOTED)
 - = EXISTING UTILITY POLE
 - = EXISTING GATE / FENCE POST
 - = EXISTING PIPELINE
 - = EXISTING WATER LINE
 - = EXISTING FENCE
 - = EXISTING OVERHEAD UTILITY
 - = EXISTING UNDERGROUND UTILITY
 - = EXISTING TELEPHONE
 - = EXISTING GUARDRAIL
 - = EXISTING UNPAVED ROAD
 - = EXISTING PAVED ROAD
 - = EXISTING DITCH
 - = EXISTING TREELINE
 - = PROPERTY LINE
 - = DOH RIGHT-OF-WAY LINE
 - = PROPOSED PERMANENT RIGHT-OF-WAY
 - = PROPOSED CONSTRUCTION RIGHT-OF-WAY / LIMITS-OF-DISTURBANCE
 - = COMPRESSOR/WELL PAD LIMITS-OF-DISTURBANCE
 - = PROPOSED ANTERO BASELINE
 - = PROPOSED ANTERO GAS LINE
 - = PROPOSED ANTERO BURIED WATER LINE
 - = PROPOSED ANTERO SURFACE WATER LINE
 - = EXISTING GROUND PROFILE
 - = PROPOSED PIPELINE PROFILE
 - = CONTOUR
 - = AREA-OF-INTEREST
 - = PROPOSED TYPE A BMP (SEE TABLE ON SHEET 14)
 - = PROPOSED TYPE B BMP (SEE TABLE ON SHEET 14)
 - = PROPOSED TYPE C BMP (SEE TABLE ON SHEET 14)
 - = PROPOSED ORANGE SAFETY FENCE
 - = PROPOSED RIGHT-OF-WAY DIVERSION (PLAN)
 - = PROPOSED ACCESS ROAD DITCH
 - = PROPOSED CULVERT
 - = DELINEATED CULVERT
 - = DELINEATED STREAMS
 - = DELINEATED STREAMS (PROPOSED PERMANENT FILL)
 - = DELINEATED WETLANDS
 - = DELINEATED WETLANDS (PROPOSED PERMANENT FILL)
 - = DELINEATED GROUNDWATER SEEP/SPRING
 - = ROLLED EROSION CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
 - = ADDITIONAL TEMPORARY WORKSPACE
 - = STONE CONSTRUCTION ENTRANCE
 - = TEMPORARY TIMBERMAT CROSSING
 - = PROPOSED ACCESS ROAD
 - = PIPELINE MILE POST
 - = PROPOSED RIGHT-OF-WAY DIVERSION (PROFILE)
 - = PROPOSED EARTH TRENCH BREAKER (PROFILE)
 - = PROPOSED TRENCH PLUG DRAIN (PROFILE)
 - = PROPOSED GAS LINE MARKER
 - = PROPOSED TEST STATION
- 43-3-4-31.1 = PARCEL IDENTIFICATION
*LEGEND IS TYPICAL. NOT ALL ITEMS IN LEGEND ARE PRESENT IN DRAWING.

PROPOSED 100' CONSTRUCTION RIGHT-OF-WAY LIMITS-OF-DISTURBANCE

- CONSTRUCTION R/W LIMITS-OF-DISTURBANCE
- B.L. PROPOSED CORRIDOR
- CONSTRUCTION R/W LIMITS-OF-DISTURBANCE

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

GENERAL INFORMATION

1. ALL DESIGN, STRENGTH OF PIPELINE AND MAMP CALCULATIONS ALONG WITH ROUTING WERE PREPARED BY ANTERO AND PROVIDED TO THRASHER FOR REVIEW ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR ROUTE PROVIDED BY ANTERO.
2. FORESTED ACREAGE WITHIN THE PERMITTED LIMITS-OF-DISTURBANCE = 2.43 AC.
3. FIELD DELINEATION CONDUCTED AND PROVIDED BY KLENFELDER, INC.
4. THIS SHEET IS INTENDED TO BE PLOTTED ON AHS D (24" x 36") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

REVISION

NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM KLENFELDER, NATIONAL & THRASHER	1/18/22	JLH
2	REVISED PER COMMENTS FROM ANTERO	1/24/22	JLH

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	DATE	BY



ISSUED FOR PERMITTING

DATE: 1/24/2022

AFE # A08641



OXFORD 98 PIPELINE GENERAL NOTES

PROPOSED 16" STEEL GAS LINE & 18" HDPE SURFACE WATER LINE DODDRIDGE COUNTY, WEST VIRGINIA

SCALE	DATE	SHEET
AS SHOWN	1/24/22	02
DATE	DATE	DATE

SHT. NAME: 050-6935\OX98PL\GNOTS REV. 2

GENERAL CONSTRUCTION SPECIFICATIONS

1. GRADING

THE CONTRACTOR SHALL GRADE AS NECESSARY TO MITIGATE THE NECESSITY OF ABRUPT OVER-BENDS OR SAG-BENDS. CONTRACTOR SHALL MINIMIZE THE GRADING WHERE PRACTICAL TO PREVENT UNNECESSARY DISTURBANCE AND MINIMIZE WORK REQUIRED TO RETURN THE RIGHT-OF-WAY TO ITS ORIGINAL ELEVATIONS. SLOPES, AND PROFILE AS CLOSELY AS PRACTICAL, BUT CONSISTENT WITH MINIMIZING ABRUPT OVER-BENDS AND SAG-BENDS. GRADED SURFACES SHALL BE STOCK PILED SO IT CAN BE RETURNED TO ITS ORIGINAL DEPTH AND LOCATION AS OPPOSED TO SPREAD ALONG THE RIGHT-OF-WAY. CONTRACTOR SHALL GRUB, OR OTHERWISE REMOVE AND DISPOSED OF ALL STUMPS, ROOTS AND DEBRIS FOUND TO BE IN THE WAY OF CONSTRUCTION WITH PERMANENT RIGHT-OF-WAY LIMITS. WHEN THE CONTRACTOR IS CUTTING GRADE ALONG OR ACROSS EXISTING PIPELINES, SPOIL OR MATS SHALL BE PLACED OVER THE EXISTING LINES PER THE REQUIREMENTS OF THE OPERATING COMPANY OF THE FOREIGN PIPELINE.

2. COMPANY FOREIGN LINE AND UTILITY CROSSINGS

CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL SUCH CROSSINGS AND NOTIFY THE OWNER PRIOR TO ANY DITCHING ACTIVITY IN THE VICINITY OF THE CROSSINGS. A MINIMUM CLEARANCE OF 12 IN. OR AS REQUIRED BY THE OWNER/OPERATOR, SHALL BE MAINTAINED FROM THE FOREIGN CROSSING. THE CONTRACTOR SHALL MAKE ALL REQUIRED "ONE-CALL" NOTIFICATIONS, AND KEEP DOCUMENTATION OF NOTIFICATIONS. THE CONTRACTOR SHALL KEEP THE MARKINGS REFRESHED AS NECESSARY DURING THE LENGTH OF THE CONSTRUCTION ACTIVITIES, MAKING NECESSARY RE-NOTIFICATIONS AS REQUIRED. COMPANY WILL LOCATE AND MARK LOCATIONS OF KNOWN COMPANY-OWNED FACILITIES WITHIN EXISTING OPERATING LOCATIONS.

IN AREAS WHERE UNDERGROUND FACILITIES, SUCH AS PIPELINES, ELECTRICAL LINES, FIBER OPTIC CABLES, ETC. EXISTING, EXCAVATION BY MACHINE SHALL BE LIMITED TO NO CLOSER THAN 2 FEET (IN ANY DIRECTION) TO THE FACILITY. THE FACILITY SHALL THEN BE EXPOSED AND POSITIVELY LOCATED BY HAND EXCAVATION. AFTER THE FACILITY IS EXPOSED, AND ONLY WHILE A COMPANY REPRESENTATIVE IS ON-SITE, EXCAVATION BY MACHINE IS PERMITTED TO WITHIN 1 FOOT (IN ANY DIRECTION) OF THE FACILITY. THE REMAINING EXCAVATION MUST BE HAND DUG.

3. DITCH SPECIFICATIONS

DITCH WIDTH AND DEPTH - UNLESS OTHERWISE STATED ON THE DRAWINGS OR RIGHT-OF-WAY LINE LIST, THE DITCH SHALL BE A MINIMUM OF 12 IN. WIDER THAN THE PIPE BEING LAID FOR PIPE DIAMETERS LESS THAN 12 IN. AND A MINIMUM OF 18 IN. WIDER FOR PIPE DIAMETERS 12 IN. AND GREATER AND OF SUCH DEPTH THAT THE PIPE SHALL HAVE 48 IN. MINIMUM COVER IN SOIL AND 36 IN. IN CONSOLIDATED ROCK, MEASURED FROM THE TOP OF THE PIPE TO THE AVERAGE LEVEL OF THE ORIGINAL OR RESTORED GROUND ON THE TWO SIDES OF THE DITCH, WHICHEVER IS LOWER.

CONSOLIDATED ROCK - CONSOLIDATED ROCK IS DEFINED AS ROCK LAYERS WHERE THE UPPERMOST SURFACE EXISTS AT A HIGHER ELEVATION THAN THE ELEVATION OF THE TOP OF THE PIPE. THIS CONDITION PROVIDES PROTECTION AGAINST DAMAGE FROM EXTERNAL FORCES AND JUSTICES COVER.

DITCH GRADING - THE BOTTOM OF THE DITCH SHALL BE CUT TO A UNIFORM GRADE SO THAT THE FULL WIDTH OF THE DITCH SHALL BE AVAILABLE FOR PROVIDING SLACK IN THE LINE WHEN LAID.

BEND EXCAVATIONS - AT OVER-BENDS AND SIDE-BENDS, THE CONTRACTOR SHALL EXCAVATE THE DITCH TO ALLOW PROPER CLEARANCE BETWEEN THE INSIDE BEND OF THE PIPE AND THE BOTTOM OR SIDE OF THE DITCH TO MAINTAIN THE MINIMUM COVER.

ROCK - IN ALL CASES WHERE ROCK, OR ANY BOLDER LARGER THAN TWO IN. IN DIAMETER IS ENCOUNTERED IN THE BOTTOM OF THE DITCH, THE DITCH SHALL BE EVENLY PADDED WITH SOIL, SAND OR OTHER PADDING MATERIAL IN ORDER TO PREVENT THE ROCK OR BOLDERS FROM COMING INTO CONTACT WITH THE PIPE COATING.

4. SPOIL BANK

THE SPOIL BANK FROM THE DITCHING OPERATIONS SHALL NOT BE PLACED ON ANY LOOSE DEBRIS OR FOREIGN MATTER WHICH MIGHT BECOME MIXED DURING PADDING AND BACKFILLING OPERATIONS. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN GAPS OR OPENINGS IN THE SPOIL BANK ACROSS CULTIVATED FIELDS, SO THAT EXCESSIVE RAINS DO NOT CAUSE WATER TO BACK UP AND FLOOD CULTIVATED SECTIONS. EXTREME CARE SHALL BE EXERCISED TO KEEP ALL DRAIN DITCHES AND WATER COURSES OPEN AND USEFUL.

5. TEMPORARY BRIDGES

WHEN THE DITCH IS EXCAVATED THROUGH LANDS WHERE LIVESTOCK/WILDLIFE IS CONFINED OR THROUGH AGRICULTURAL FIELDS WHERE THE COMPANY DETERMINES IT IS DESIRABLE FOR THE LANDOWNER OR TENANT TO HAVE A PASSAGEWAY ACROSS THE DITCH, THE CONTRACTOR SHALL PILE THE DITCH OR PROVIDE SAFE, TEMPORARY BRIDGES FOR CROSSING THE DITCH AND LEAVE AN OPENING IN THE SPOIL BANK.

6. EXCAVATING NEAR IN-SERVICE PIPELINES

WHEN DITCHING PARALLEL TO AN EXISTING PIPELINE IN THE SAME RIGHTS-OF-WAY, NEAR THE EXISTING LINE AND DEEPER THAN THE EXISTING LINE, CARE SHOULD BE TAKEN TO LEAVE SUFFICIENT DISTANCE AND SUPPORT TO ENSURE SAID LINE DOES NOT SLOUGH OFF INTO NEW EXCAVATION. IF PARALLEL LINE IS A COUPLED HIGH PRESSURE LINE, IT IS NOT PERMITTED TO EXPOSE MORE THAN ONE COUPLING AT A TIME. IN ALL INSTANCES, THE WORK SHOULD BE PLANNED SUCH THAT THE EXCAVATION IS OPEN A MINIMUM AMOUNT OF TIME.

7. HAULING AND STRINGING

THE CONTRACTOR SHALL HULL AND STRING PIPE, CASING AND OTHER MATERIALS TO THE RIGHT-OF-WAY OR WORK AREA. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRUCKS AND EQUIPMENT FOR THE HAULING AND SPOTTING OF ALL MATERIALS. THE CONTRACTOR SHALL FURNISH SKIDS AND PLACE PIPE ON SKIDS ON THE RIGHT-OF-WAY IN A MANNER WHICH KEEPS BOTH ENDS FREE OF DIRT AND DEBRIS.

8. BENDING

FIELD BENDING - WHERE IT IS NECESSARY TO BEND PIPE, ONLY COLD BENDS SHALL BE EMPLOYED. THE BENDS SHALL BE FREE FROM BUCKLING, FLATTENING, CRACKS OR OTHER EVIDENCE OF MECHANICAL DAMAGE AND ALL BENDS SHALL NOT HAVE A DIFFERENCE BETWEEN THE MAXIMUM AND MINIMUM DIAMETERS IN EXCESS OF 2.5 % OF THE NOMINAL DIAMETER. ALL BENDS SHALL MEET THE CRITERIA SET FORTH IN DOT PART 182.

8. BENDING (CONTD)

SLACK AND LONGITUDINAL WELDS - ALL OVER-BENDS, SAGS AND SIDE-BENDS SHALL BE MADE TO PROVIDE AN ADEQUATE AMOUNT OF SLACK IN THE PIPELINE ON PIPE HAVING A LONGITUDINAL WELD. THE LONGITUDINAL WELD MUST BE LOCATED AS NEAR AS PRACTICABLE TO THE NEUTRAL AXIS OF THE BEND.

BENDING MACHINE - EACH BEND SHALL BE MADE USING A COMPANY APPROVED BENDING MACHINE HAVING A FULL CIRCLE BENDING SHOE WITH A NEOPRENE OR URETHANE LINING TO PRODUCE A SMOOTH, SYMMETRICAL BEND. UNLESS SPECIFIED OTHERWISE BY THE COMPANY, ON PIPE CONTAINING A LONGITUDINAL WELD, THE LONGITUDINAL SEAM SHALL BE AS NEAR AS PRACTICAL TO NEUTRAL AXIS OF THE BEND UNLESS THE BEND IS MADE WITH AN INTERNAL BENDING MANDREL OR THE PIPE IS 12 IN. OR LESS IN OUTSIDE DIAMETER OR HAS A DIAMETER-TO-WALL THICKNESS RATIO LESS THAN 70. IF THE PIPE IS INTERNALLY COATED, THE BEARING SURFACES OF THE MANDREL SHALL BE CONSTRUCTED TO AVOID PERMANENTLY MARKING OR DAMAGING THE INTERNAL COATING. NO APPRECIABLE STRETCHING OR THINNING OF THE PIPE WALL THICKNESS SHALL BE PERMITTED.

BENDING LIMITATION - DEFLECTION SHALL BE LIMITED TO A MAXIMUM OF ONE AND ONE-HALF DEGREES PER PIPE DIAMETER MEASURED LONGITUDINALLY ALONG THE PIPE. A COMPANY ACCEPTED METHOD OF MEASUREMENT SHALL BE USED BY THE CONTRACTOR WHEN MARKING THE PIPE IN PREPARATION FOR MAKING FIELD BENDS. BENDING SHALL NOT BE ALLOWED IN A CIRCUMFERENTIAL WELD AND NOT CLOSER THAN 6 FT. TO AN OPEN END.

9. SWABBING AND CLOSING OPEN ENDS

SWABBING - EACH PIPE JOINT SHALL BE SWABBED AS NECESSARY TO REMOVE ALL DIRT AND FOREIGN MATTER FROM THE INSIDE OF THE PIPE BEFORE THE JOINTS ARE ALIGNED AND WELDED. THE SWABBING OPERATION SHALL NOT BE CARRIED ON MORE THAN FOUR JOINTS AHEAD OF THE FIRING LINE WELDERS OR ALIGNING AND WELDING OPERATIONS.

CLOSING OF PIPE ENDS - WHERE THE LINE IS WELDED IN LONG SECTIONS BY THE FIRING LINE METHOD, THE ENDS OF THE LONG SECTIONS SHALL BE CLOSED AND KEPT CLOSED IN A MANNER APPROVED BY THE COMPANY UNTIL THE LONG SECTIONS ARE FINELY JOINED. DURING THE LAYING OPERATIONS, CLOSE ATTENTION SHALL BE GIVEN TO OPEN ENDS TO ENSURE A COMPLETELY OPEN AND CLEAN LINE FREE OF ANY OBSTRUCTIONS. ALL REASONABLE PRECAUTIONS SHALL BE TAKEN TO PREVENT WATER FROM ENTERING THE LINE.

PREVENTION OF FOREIGN MATTER IN THE PIPELINE - THE OPEN END OF THE LINE SHALL BE SECURELY CLOSED AT THE END OF EACH DAY'S WORK TO PREVENT ENTRANCE OF SMALL ANIMALS OR THE INTRODUCTION OF FOREIGN MATTER OF ANY NATURE AND SHALL NOT BE REOPENED UNTIL WORK IS RESUMED. ANY OBSTRUCTIONS REMAINING IN THE LINE AFTER THE COMPLETION THEREOF SHALL BE REMOVED.

10. POSITIONING OF LONGITUDINAL SEAM

IN INSTANCES WHERE PIPE OTHER THAN SEAMLESS IS FURNISHED BY THE COMPANY, THE LONGITUDINAL SEAMS OF SUCH PIPE SHALL BE STAGGERED BY NOT MORE THAN 45'. LONGITUDINAL WELD SEAMS SHALL HAVE A MINIMUM FOUR-INCH CIRCUMFERENTIAL OFFSET BETWEEN ADJUTING JOINTS. UNLESS OTHERWISE SPECIFIED, THE LONGITUDINAL SEAMS ON ADJACENT PIPE SHALL BE STAGGERED, PLACING ONE APPROXIMATELY IN THE 10 O'CLOCK POSITION AND THE OTHER APPROXIMATELY IN THE 2 O'CLOCK POSITION.

11. LOWERING-IN PIPE

OVER-BENDS, SIDE-BENDS AND SAG-BENDS - ALL OVER-BENDS SHALL BE MADE AND INSTALLED TO CLEAR THE HIGH POINT OF THE BOTTOM OF THE DITCH BY AT LEAST 12 IN. AT THE POINT OF BEND. AT SIDE-BENDS, THE PIPE SHALL BE BENT AND LOWERED TO LAY AGAINST THE OUTSIDE WALL AT THE BOTTOM OF THE DITCH. ALL SAG-BENDS SHALL CONTINUOUSLY LIE ON FIRM GROUND AT THE BOTTOM OF THE DITCH.

PIPE SKIDS AND CRADLES - THE CONTRACTOR SHALL PROVIDE PADDING SLINGS FOR HANDLING COATED AND WRAPPED PIPE. THE USE OF BELTING REINFORCED WITH WIRE CABLE SHALL NOT BE PERMITTED. ANY METHOD OF LOWERING-IN WHICH PREVENTS DAMAGE TO THE COATING SHALL BE ACCEPTABLE; HOWEVER, THE USE OF CRADLES IS PREFERRED.

CONDITION OF DITCH - PRIOR TO LOWERING-IN THE CONTRACTOR SHALL PROVIDE, TO THE SATISFACTION OF THE COMPANY, A DITCH WHICH IS FREE FROM EXCESS DEBRIS, LARGE ROCKS AND ROOTS, WELDING ROCK, SKIDS OR OTHER SUCH OBJECTS WHICH CAN CAUSE DAMAGE TO THE PIPE AND ITS PROTECTIVE COATING DURING LOWERING-IN OPERATIONS. THE CONTRACTOR SHALL PUMP WATER FROM THE DITCH, BELL HOLES OR OTHER TIE-IN EXCAVATIONS PRIOR TO LOWERING-IN.

ROCK DITCH PADDING - IN ALL CASES WHERE ROCKS 2 IN. AND LARGER ARE ENCOUNTERED IN THE BOTTOM OF THE DITCH AND NO ADDITIONAL PIPE COATING PROTECTION IS PROVIDED, THE CONTRACTOR SHALL PROVIDE PADDING MATERIAL PLACED EVENLY AND CONTINUOUSLY TO A MINIMUM DEPTH OF 8 IN. ALONG THE BOTTOM OF THE DITCH AS APPROVED BY THE COMPANY.

SUPPORTS - THE CONTRACTOR SHALL CONSTRUCT THE PIPELINE TO LIE ON THE BOTTOM OF THE PIPE TRENCH. ALL BENDS SHALL BE MADE TO FIT THE PIPE DITCH. WHERE PIPE CANNOT BE DIRECTLY SUPPORTED BY THE BOTTOM OF THE TRENCH, SUPPORT SHALL BE PROVIDED BY SANDBAGS OR OTHER COMPANY APPROVED MATERIALS. SANDBAGS SHALL BE PLACED AT POINTS TO PROVIDE STRESS-FREE SUPPORT FOR THE PIPELINE SUBSEQUENT TO BACKFILLING. SPACING INTERVALS FOR SANDBAG SUPPORTS SHALL BE 15 FT. OR LESS AS REQUIRED BY THE COMPANY. SUPPORTS COMPRISED OF MATERIALS OTHER THAN SANDBAGS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND AT SPACING INTERVALS NO GREATER THAN THE APPROPRIATE MAXIMUM INTERVAL RECOMMENDED BY THE MANUFACTURER. SUPPORT SHALL BE PLACED AT POINTS TO PROVIDE A STRESS-FREE INSTALLATION SUBSEQUENT TO BACKFILL. THE CONTRACTOR SHALL NOT USE ANY SUPPORT METHOD WITHOUT THE PRIOR APPROVAL OF THE COMPANY AND WITHOUT PROVIDING THE COMPANY WITH THE MANUFACTURER'S RECOMMENDED INSTALLATION DIRECTIONS FOR THE SPECIFIC METHOD BEING USED.

TIE-INS - SECTIONS OF THE PIPELINE EXCAVATED FOR TIE-INS SHALL BE SUPPORTED WITH SANDBAGS OR OTHER APPROVED MATERIALS AT INTERVALS INDICATED ABOVE. SUPPORTS SHALL BE PLACED IMMEDIATELY AFTER FINAL TIE-IN TO PROVIDE A STRESS-FREE INSTALLATION SUBSEQUENT TO THE BACKFILLING OPERATION.

12. BACKFILLING

AFTER LOWERING-IN HAS BEEN COMPLETED, BUT BEFORE BACKFILLING, THE DITCH SHALL BE PUMPED DRY IN UPLAND AREAS AND THE LINE SHALL BE INSPECTED TO ENSURE THAT NO SKIDS, BRUSH, STUMPS, TREES, BOLDERS OR DEBRIS ARE IN THE DITCH. NO SUCH MATERIALS OR DEBRIS ARE TO BE BACKFILLED INTO THE DITCH. AFTER THE PIPE HAS BEEN INSPECTED AND APPROVED BY THE COMPANY, AFTER ALL DAMAGE TO THE PROTECTIVE COATING HAS BEEN REPAIRED AND AFTER THE COATING ON THE PIPE HAS HAD SUFFICIENT TIME TO CURE, THEN THE CONTRACTOR SHALL BACKFILL THE DITCH SUFFICIENTLY TO PREVENT FLOATING. THE CONTRACTOR SHALL COMPLETE THE FILLING OF THE DITCH TO PRODUCE A TRIM BACKFILL. EXCAVATED MATERIAL SHALL BE PLACED IN THE DITCH TOPSOIL, WHERE IT HAS BEEN SEGREGATED, SHALL BE BACKFILLED AS CLOSE AS POSSIBLE TO ITS ORIGINAL LOCATION.

ROCK, TWO INCHES IN DIAMETER OR LARGER, OR LIKE MATERIALS SHALL NOT BE BACKFILLED DIRECTLY ONTO THE PIPE. WHERE SUCH MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL HAUL, IF NECESSARY, SUFFICIENT EARTH OR SAND TO BE BACKFILLED AROUND AND OVER THE PIPE TO FORM A PROTECTIVE PADDING OR CUSHION TO A MINIMUM OF EIGHT INCHES OR, AS OTHERWISE SPECIFIED IN THE SCOPE OF WORK, IN DEPTH BETWEEN THE PIPE AND ANY GRAVEL OR SMALL BROKEN ROCK TO BE BACKFILLED. LARGE ROCK OR BOLDERS IN EXCESS OF 24 IN. IN DIAMETER, WIDTH OR LENGTH, SHALL NOT BE BACKFILLED INTO THE DITCH. SUCH ROCK SHALL BE DISPOSED OF PROPERLY.

13. TRENCH BREAKER

THE CONTRACTOR SHALL INSTALL EROSION BREAKERS IN THE DITCH OVER, UNDER AND AROUND THE PIPE TO PROVIDE FULL PROTECTION AGAINST BACKFILL WASHING AT VARIOUS POINTS ALONG THE PIPELINE. BREAKER INSTALLATIONS AND SPACING SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS AS WELL AS COMPANY, LOCAL, STATE, AND FEDERAL REQUIREMENTS.

- BREAKER MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO, DECOMPOSABLE BAGS, SAND AND ANY OTHER MATERIALS REQUIRED TO FACILITATE THE PROPER PLACEMENT OF THE BREAKER MATERIAL IN THE DITCH.
- BREAKER INSTALLATIONS MAY BE COMPRISED OF EITHER A MULTIPLE SANDBAG CONFIGURATION OR BY OTHER APPROVED METHODS. ALL BREAKER INSTALLATIONS SHALL MEET WITH THE APPROVAL OF THE COMPANY.
- BREAKER SIZE IS DEPENDENT ON THE EXTENT AND CONDITION OF THE DITCH IN DEPTH, WIDTH, SLOPE AND GRADE. AT A MINIMUM, BREAKERS SHALL EXTEND THE WIDTH AND DEPTH OF THE DITCH.
- BREAKERS, SHALL BE SPACED ALONG THE DITCH IN ACCORDANCE WITH THE COMPANY'S ENVIRONMENTAL STANDARDS.

14. DIRT PADDING

THE CONTRACTOR SHALL INSTALL ROCK-FREE DIRT PADDING IN AREAS DESIGNATED BY THE COMPANY. TOPSOIL SHALL NOT BE USED FOR PADDING THE DITCH. DIRT PADDING SHALL BE INSTALLED IN THE BOTTOM OF THE DITCH TO A MINIMUM DEPTH OF 8 IN., PRIOR TO LOWERING-IN THE PIPELINE, IF OTHER ACCEPTABLE SUPPORT FOR PROTECTING THE BOTTOM OF THE PIPE IS NOT UTILIZED. A MINIMUM OF 8 IN. OF DIRT PADDING SHALL BE INSTALLED AS COVER ON TOP OF THE LINE AS PROTECTION PRIOR TO BACKFILLING. ACCEPTABLE ROCK-FREE PADDING MATERIAL MAY BE OBTAINED DIRECTLY FROM THE SPOIL, OR BY USING A PADDING MACHINE WITH MATERIAL TAKEN DIRECTLY FROM THE SPOIL OR ROCK-FREE PADDING MATERIAL CAN BE HAULIED IN BY THE CONTRACTOR.

15. CLEAN-UP

THE CONTRACTOR SHALL KEEP THE RIGHT-OF-WAY CLEAR OF LITTER, SKIDS, DEFECTIVE MATERIALS, AND ALL OTHER CONSTRUCTION DEBRIS IMMEDIATELY BEHIND ITS OPERATIONS. TO THE SATISFACTION OF THE COMPANY, UPON COMPLETION OF THE BACKFILL, THE CONTRACTOR WILL CLEAN THE RIGHT-OF-WAY IN A NEAT AND ACCEPTABLE CONDITION. SURPLUS MATERIALS SHALL BE ASSEMBLED AND DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE COMPANY. FENCES SHALL BE RECONSTRUCTED TO THE ORIGINAL LINE AND GATES INSTALLED AS INDICATED BY THE COMPANY. THE CONTRACTOR SHALL FURNISH GATES, FENCING AND POSTS.

THE RIGHT-OF-WAY SHALL BE DISKED, LIMED, SEEDED AND FERTILIZED DURING THE CLEAN-UP OPERATION. THE CONTRACTOR SHALL FURNISH THE LIME, SEED AND FERTILIZER. SEEDING, FERTILIZING AND MULCHING MUST BE DONE WITHIN 6 DAYS OF FINAL CLEAN UP OR IN ACCORDANCE WITH COMPANY ENVIRONMENTAL REQUIREMENTS.

PIPELINE MARKERS SHALL BE INSTALLED AT POINTS DESIGNATED BY THE COMPANY DURING CLEAN-UP OPERATIONS. THE COMPANY SHALL FURNISH LINE AND AERIAL MARKERS.

USER: jared phillips

PROJECT DATE/TIME: 1/24/2022 8:42 AM
LAYOUT FILE: SPCS
CAD FILE: R:\030100-9135- 03090 08- ANTWERP\DWG\OXFORD\GENERAL NOTES SHEETS.dwg

THRASHER

IFP

ISSUED FOR PERMITTING
DATE: 1/24/2022
AFE # A08641

SUMMARY OF MATERIALS (3D)			SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
REVISION					
1	REVISED PER COMMENTS FROM IDENTIFIED, NATIONAL & THRASHER		1/19/22		
2	REVISED PER COMMENTS FROM ANTERO		1/21/22		
NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	DATE BY

GENERAL INFORMATION

- ALL DESIGN STRENGTH OF PIPELINE AND MAP CALCULATIONS ALONG WITH ROUTING WERE PREPARED BY ANTERO AND PROVIDED TO DRINKER FOR INCLUSION ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR ROUTE PROVIDED BY ANTERO.
- THIS SHEET IS INTENDED TO BE PLOTTED ON A8 (24" x 36"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

Antero
Midstream

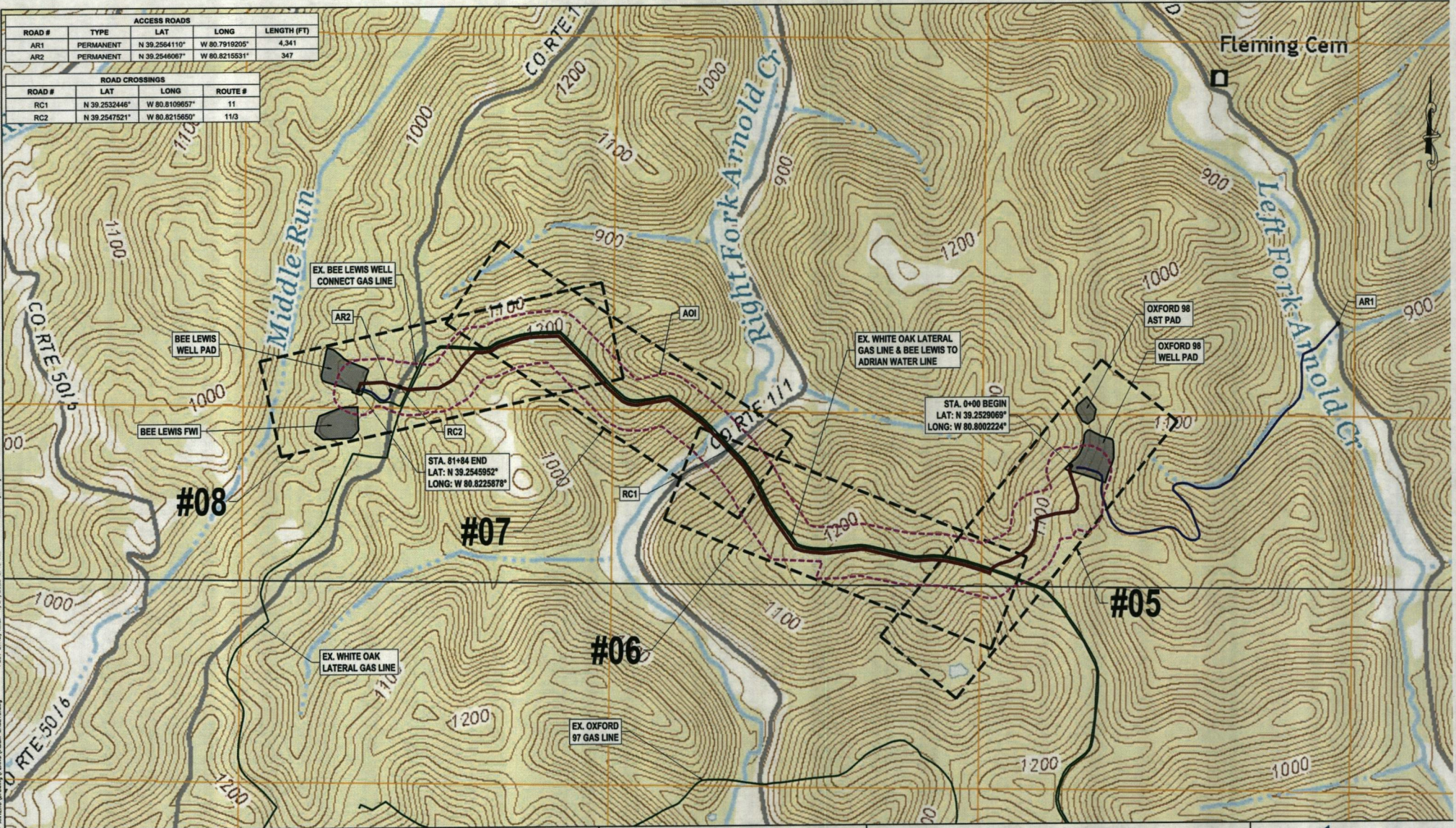
**OXFORD 98 PIPELINE
GENERAL CONSTRUCTION SPECS**

PROPOSED 16" STEEL GAS LINE
& 18" HDPE SURFACE WATER LINE
DOODRIDGE COUNTY, WEST VIRGINIA

DATE: 1/24/2022
DRAWN BY: J. PHILLIPS
CHECKED BY: J. PHILLIPS
SHEET: 03
SHT. NAME: 030-6935_03090\SPCS
REV. 2

ACCESS ROADS				
ROAD #	TYPE	LAT	LONG	LENGTH (FT)
AR1	PERMANENT	N 39.2564110°	W 80.7919205°	4,341
AR2	PERMANENT	N 39.2546067°	W 80.8215831°	347

ROAD CROSSINGS			
ROAD #	LAT	LONG	ROUTE #
RC1	N 39.2532446°	W 80.8109657°	11
RC2	N 39.2547521°	W 80.8215850°	11/3



USER: jared.parkes
 PLOT DATE/TIME: 1/24/2022 9:43 AM
 ANTERO:\Drawing\PLANS\INDEX SHEETS.dwg
 LAYOUT FILE: R:\050\050-6935-
 CAD FILE: R:\050\050-6935-

THRASHER

IFP
ISSUED FOR PERMITTING

DATE: 1/24/2022

AFE # A08641

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION

REVISION			
NO.	DESCRIPTION	DATE	BY
1	REVISED PER COMMENTS FROM KLENFELDER, NATIONAL & THRASHER	1/18/22	JEA
2	REVISED PER COMMENTS FROM ANTERO	1/24/22	JEA

- GENERAL INFORMATION**
- ALL DESIGN, STRENGTH OF PIPELINE AND MAP CALCULATIONS ALONG WITH ROUTING WERE PREPARED BY ANTERO AND PROVIDED TO THRASHER FOR INCLUSION ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR ROUTE PROVIDED BY ANTERO.
 - FIELD DELINEATION PERFORMED AND PROVIDED BY: KLENFELDER, INC.
 - MAPPING SOURCE: OXFORD, WV LOGS 7.5 MINUTE QUADRANGLE DATED 2019
WEST VIRGINIA, WV LOGS 7.5 MINUTE QUADRANGLE DATED 2019
 - COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:
HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT
VERTICAL - NAVD 83 (GEOIDAL), U.S. SURVEY FOOT
 - 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.

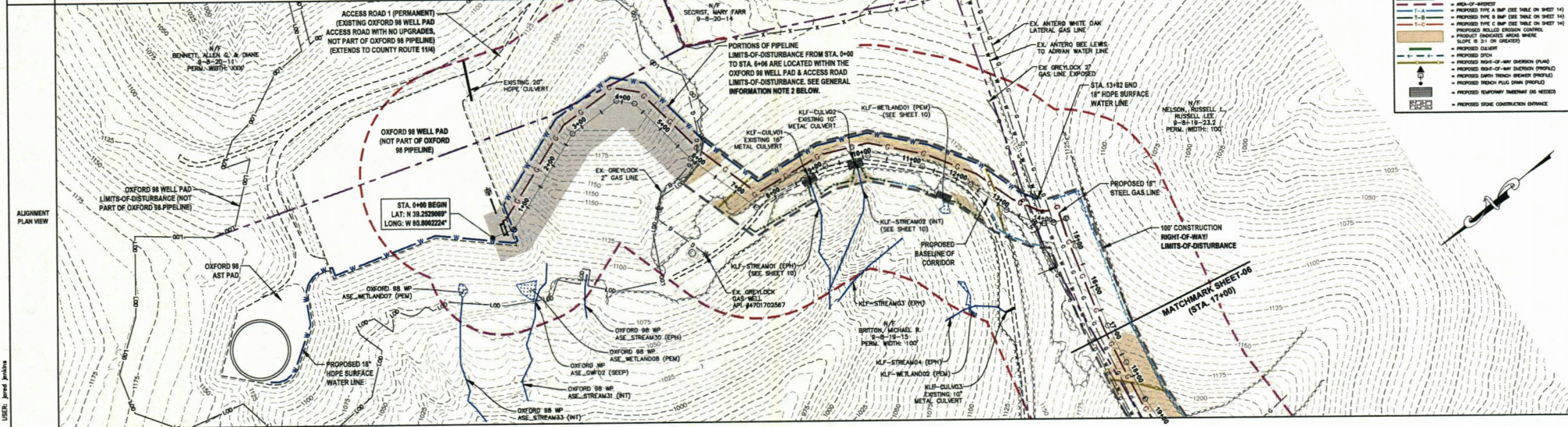
Antero
Midstream

**OXFORD 98 PIPELINE
PLAN INDEX SHEET**

PROPOSED 16" STEEL GAS LINE
& 18" HDPE SURFACE WATER LINE
DODDRIEGE COUNTY, WEST VIRGINIA

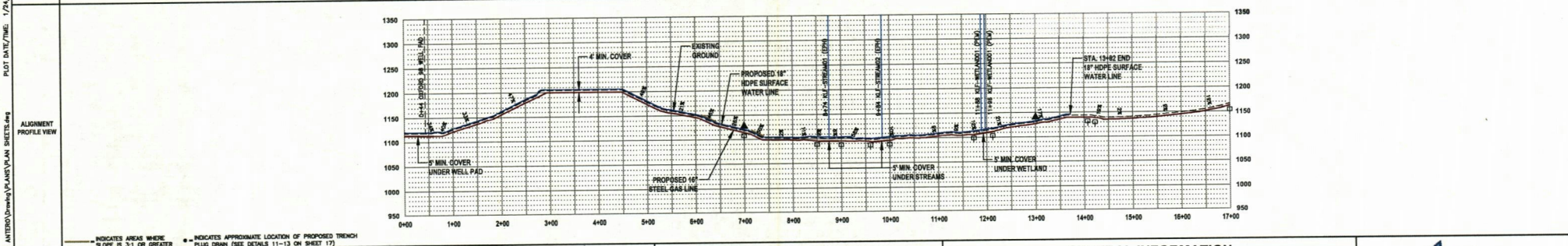
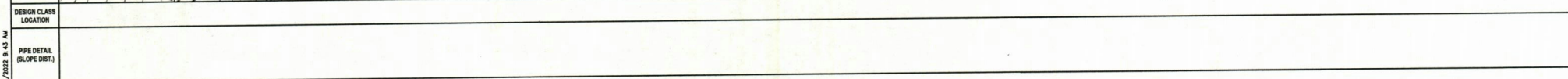
DATE: 1/24/2022
SHEET 04
SHT. NAME: 050-6935\OX98PL\INDEX REV. 2

OWNERSHIP & PARCEL NO.	0+00	0+100	0+200	0+300	0+400	0+500	0+600	0+700	0+800	0+900	10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	
P.I. DEFLECTION ANGLES		P.I. 0+47 ANGLE: 37' LT	P.I. 2+78 ANGLE: 32' RT	P.I. 3+88 ANGLE: 45' RT	P.I. 4+28 ANGLE: 35' RT	P.I. 5+88 ANGLE: 08' LT	P.I. 7+88 ANGLE: 17' RT	P.I. 10+11 ANGLE: 34' RT	P.I. 11+24 ANGLE: 16' RT	P.I. 12+30 ANGLE: 14' RT	P.I. 13+21 ANGLE: 12' LT	P.I. 13+84 ANGLE: 14' LT	P.I. 14+24 ANGLE: 12' LT	P.I. 14+50 ANGLE: 06' RT	P.I. 15+08 ANGLE: 04' LT				P.I. 16+54 ANGLE: 04' LT



AS LEGEND

- AREA OF RIGHT-OF-WAY
- PROPOSED TYPE A BWP (SEE TABLE ON SHEET 14)
- PROPOSED TYPE B BWP (SEE TABLE ON SHEET 14)
- PROPOSED TYPE C BWP (SEE TABLE ON SHEET 14)
- PROPOSED ROLLED BROWNS CONTROL PRODUCT (INDICATES AREAS WHERE SLOPE IS 3:1 OR GREATER)
- PROPOSED CULVERT
- PROPOSED 18" HDPE SURFACE WATER LINE
- PROPOSED 16" HDPE SURFACE WATER LINE
- PROPOSED 18" STEEL GAS LINE
- PROPOSED TRENCH PLUS SHIM PROFILE
- PROPOSED TRENCH PLUS SHIM PROFILE
- PROPOSED SLOPE CONSTRUCTION DISTANCE



THRASHER

ISSUED FOR PERMITTING

IFP

DATE: 1/24/2022

AFE # A08641

0 100 200
HORIZ. SCALE IN FEET

0 100 200
VERT. SCALE IN FEET

SUMMARY OF MATERIALS (3D)			SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY
1	REVISED PER COMMENTS FROM KLEINFELDER, NATIONAL & THRASHER	1/19/22 JLI	1	REVISED PER COMMENTS FROM ANTERO	1/24/22 JLI
2	REVISED PER COMMENTS FROM ANTERO	1/24/22 JLI			

GENERAL INFORMATION

- ALL DESIGN, STRENGTH OF PIPELINE, AND MAAP CALCULATIONS ALONG WITH ALL DRAWINGS PROVIDED BY ANTERO AND PROVIDED BY THRASHER FOR INCLUSION ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR DATA PROVIDED BY ANTERO.
- PORTIONS OF THE PIPELINE RIGHT-OF-WAY LOCATED WITHIN WELL PAD LIMITS-OF-DISTURBANCE COVERED UNDER WELL PAD PERMIT.
- 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 - NAD 83 (GEOIDAL) U.S. SURVEY FOOT.
- ALL ELEVATIONS SHOWN ON DRAWINGS ARE REFERRED TO THE BENCHMARK OF THE PERMITTED CORRIDOR. IT IS NOT A DIRECT REPRESENTATION OF WHERE THE PIPELINE WILL BE INSTALLED. INSTALLATION FROM THE PERMITTED CORRIDOR WILL BE COORDINATED IN THE FIELD BY ANTERO CONSTRUCTION REPRESENTATIVE.
- THE BOUNDARY MONUMENTS FOUND AND PROPERTY LINES SHOWN ON THIS DRAWING WERE OBTAINED FROM PARTIAL FIELD SURVEY AND RECORDED 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 CENTER POINTS AND BENCHMARKS DETERMINED DURING CONSTRUCTION TO BE REPLACED BY CONTRACTOR POST-CONSTRUCTION.
- SEE SHEETS 14 & 21 REGARDING WATERBARS, CULVERTS AND DITCHES TO BE INSTALLED ON ACCESS ROADS.
- ALL SHEET BOUNDS EXCLUDING ALIGNMENT PLAN VIEW REFERENCE THE ALIGNMENT PROFILE VIEW.
- THIS SHEET IS INTENDED TO BE PLOTTED ON A8D & (24" x 36") FOR REVISIONS. REFER TO GRAPHIC SCALE.
- FOR LEGEND/ABBREVIATION INFORMATION, REFER TO THE GENERAL NOTES SHEET.

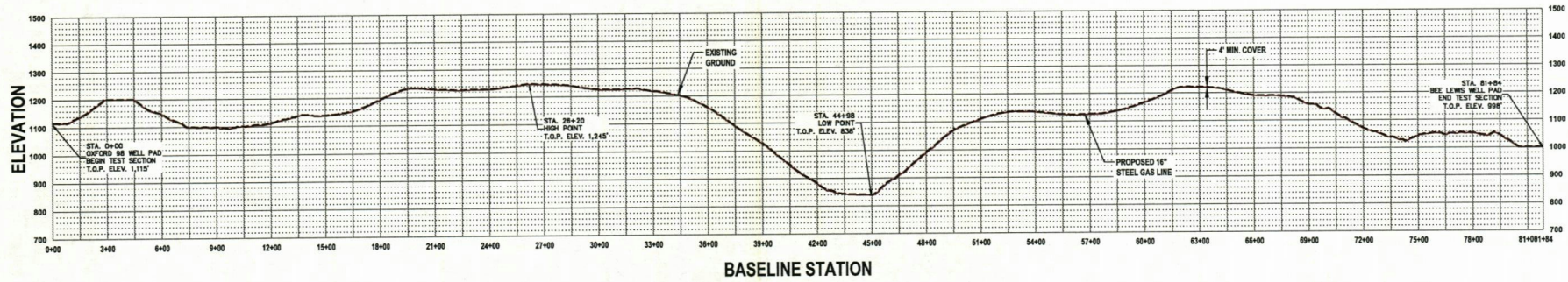
Antero
Midstream

OXFORD 98 PIPELINE
STA. 0+00 TO STA. 17+00

PROPOSED 16" STEEL GAS LINE
& 18" HDPE SURFACE WATER LINE
DODDRIE COUNTY, WEST VIRGINIA

DATE: 1/24/2022
SCALE: AS SHOWN
SHEET 05
SHT. NAME: 050-6935/OX98PL/PLAN1

LAYOUT TAB: HSP
 CAD FILE: \\050\050-6935-09\050\Drawings\PLANS\HYDROSTATIC PROFILE SHEET.dwg
 ANTERO\Drawing\PLANS\HYDROSTATIC PROFILE SHEET.dwg
 USER: jared.johnson
 PLOT DATE/TIME: 1/24/2022 8:44 AM



HYDROSTATIC PROFILE		Station	Elevation (ft msl)
Start Point		0+00	1,115
Low Point		44+98	838
High Point		26+20	1,245
End Point		81+84	998
Differential			407 ft.
Static Head Pressure @ 953' Elevation			178 PSI
Overall Slope Length (3D)			8,455 ft.

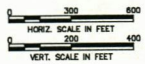
THRASHER

IFP

ISSUED FOR PERMITTING

DATE: 1/24/2022

AFE # A08641



SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

GENERAL INFORMATION

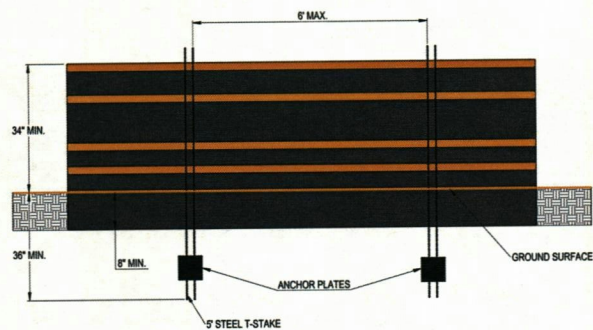
- ALL DESIGN STRENGTHS OF PIPELINE AND MAOP CALCULATIONS ALONG WITH ROUTING WERE PREPARED BY ANTERO AND PROVIDED TO THRASHER FOR INCLUSION ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR ROUTE PROVIDED BY ANTERO.
- REFER TO ANTERO MIDSTREAM PRESSURE TESTING PROCEDURE.
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY:
 HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. SURVEY FOOT
 VERTICAL - NAVD 88 (GEOID88), U.S. SURVEY FOOT
- ALL STATIONING SHOWN IS HORIZONTAL AND PERTAINS TO THE BASELINE 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.
- THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.



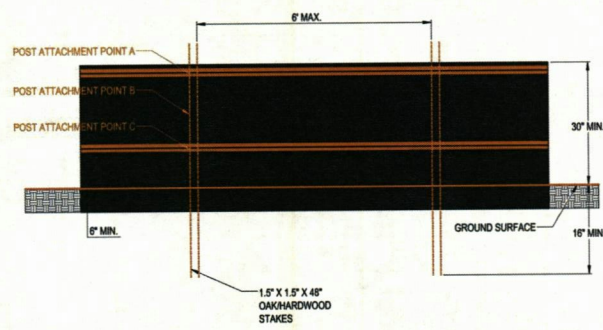
**OXFORD 98 PIPELINE
HYDROSTATIC PROFILE**
 PROPOSED 16" STEEL GAS LINE
 & 18" HDPE SURFACE WATER LINE
 DODDRIDGE COUNTY, WEST VIRGINIA

SCALE: 1" = 40'	SHEET 09	DATE: 1/24/2022
DRWING BY: JLD (JLD)		
CHECKED: JLD (JLD)		
SHT. NAME: 050-6935\OX98PL\HSP	REV. 2	

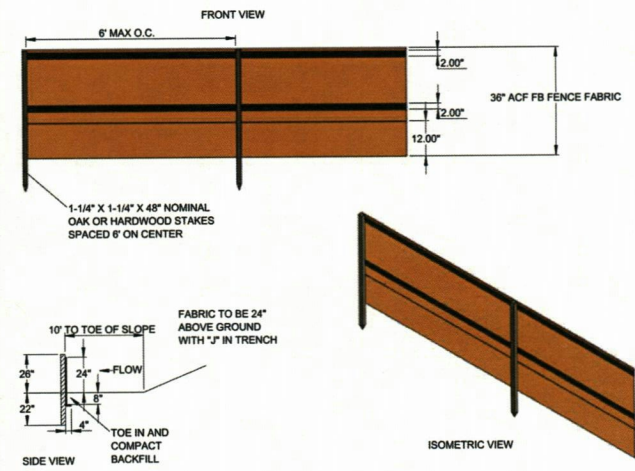
USER: jared.jenkins
 PLOT DATE/TIME: 1/24/2022 8:45 AM
 ANTERO Drawing PLANS/ESCP DETAIL SHEETS.dwg
 LAYOUT FILE: R25A
 CAD FILE: R:\050\050-4335-0300-98- ANTERO Drawing\PLANS\ESCP DETAIL SHEETS.dwg



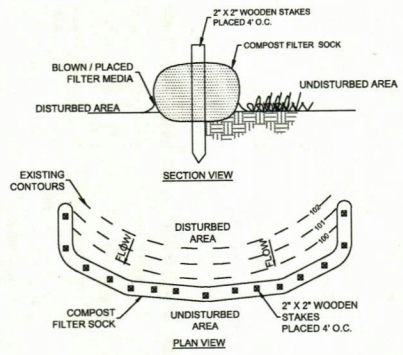
9
A
ACF ENVIRONMENTAL SMARTFENCE 42
NTS



9
B
ACF ENVIRONMENTAL SMARTFENCE 36 (SD) WITH WOOD POSTS
NTS



9
C
ACF ENVIRONMENTAL FILTRATION BARRIER (SMARTFENCE FB) WITH WOOD POSTS
NTS



10
A
COMPOST FILTER SOCK
NTS

- CONDITIONS WHERE PRACTICE APPLIES:**
1. INSTALL ON DISTURBED AREAS THAT REQUIRE IMMEDIATE EROSION PROTECTION.
 2. USE ON SLOPES REQUIRING STABILIZATION UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED.
 3. CAN BE USED ALONG THE PERIMETER OF THE PIPELINE, AS A CHECK DAM IN UNLINED DITCHES AND AROUND TEMPORARY STOCKPILES.
 4. SOCK CAN BE STAKED TO THE GROUND USING MELLOW CUTTINGS FOR ADDED REVEGETATION.
 5. 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.
 6. ROLLS ARE A SHORT-TERM SOLUTION TO HELP ESTABLISH NATIVE VEGETATION.
 7. ROLLS STORE MOISTURE FOR VEGETATION PLANTED IMMEDIATELY UPSLOPE.

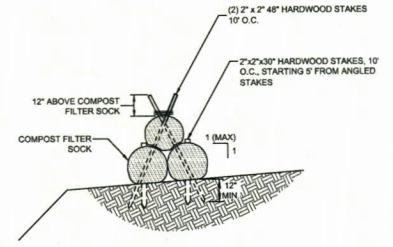
- CONSTRUCTION SPECIFICATIONS:**
1. IT IS CRITICAL THAT SOCK IS INSTALLED PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE CONTOUR.
 2. NARROW TRENCHES SHOULD BE DUG ACROSS THE SLOPE, ON CONTOUR, TO A DEPTH OF 3 TO 5 INCHES ON CLAY SOILS AND SOILS WITH GRADUAL SLOPES; ON LOOSE SOILS, STEEP SLOPES, AND DURING HIGH RAINFALL EVENTS, THE TRENCHES SHOULD BE DUG TO A DEPTH OF 5 TO 7 INCHES, OR 2/3 TO 2/5 OF THE THICKNESS OF THE SOCK.
 3. START CONSTRUCTION OF TRENCHES AND INSTALLING SOCK FROM THE BASE OF THE SLOPE AND WORK UPSLOPE. EXCAVATED MATERIAL SHOULD BE SPREAD EVENLY ALONG THE UPSLOPE 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.
 4. INSTALL THE SOCK SNUGLY INTO THE TRENCHES AND ADJUST TIGHTLY END TO END. DO NOT OVERLAP THE ENDS.
 5. INSTALL STAKES AT EACH END OF THE SOCK, AND AT A MINIMUM OF 4-FOOT CENTERS ALONG THE ENTIRE LENGTH OF THE SOCK.
 6. IF REQUIRED, INSTALL PILOT HOLES FOR THE STAKES USING A STRAIGHT BAR TO DRIVE HOLES THROUGH THE SOCK AND INTO THE SOIL.
 7. AT A MINIMUM, WOODEN STAKES SHOULD BE APPROXIMATELY 2 X 2 X 24 INCHES. MELLOW CUTTINGS OR 3/8-INCH REBAR CAN ALSO BE USED FOR STAKES.
 8. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE SOCK, LEAVING 2 TO 3 INCHES OF THE STAKE PROTRUDING ABOVE THE SOCK.

10
A
COMPOST FILTER SOCK
NTS

- MAINTENANCE:**
1. INSPECT SOCK AT LEAST ONCE A WEEK AND AFTER EACH RAIN EVENT GREATER THAN 0.5 INCH.
 2. REPAIR OR REPLACE SPLIT, TORN, RAVELING, OR SLUMPING SOCK.
 3. REMOVE SEDIMENT ACCUMULATIONS WHEN EXCEEDING 1/2 THE HEIGHT BETWEEN THE TOP OF THE SOCK AND THE GROUND SURFACE.
 4. REPAIR ANY RILLS OR GULLIES PROMPTLY.
 5. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.

Slope Percent	Maximum Slope Length (Rolls Needed) to Control Erosion*				
	2 to 10% Silt 1000 sq-ft**	10 to 15% Silt 1000 sq-ft**	15 to 20% Silt 1000 sq-ft**	20 to 25% Silt 1000 sq-ft**	25 to 30% Silt 1000 sq-ft**
2 to 10%	800 (200)	700 (200)	600 (200)	500 (200)	400 (200)
10	400 (100)	350 (100)	300 (100)	250 (100)	200 (100)
15	300 (100)	250 (100)	200 (100)	150 (100)	100 (100)
20	200 (100)	150 (100)	100 (100)	50 (100)	0 (100)
25	100 (100)	50 (100)	0 (100)	0 (100)	0 (100)
30	0 (100)	0 (100)	0 (100)	0 (100)	0 (100)
35	0 (100)	0 (100)	0 (100)	0 (100)	0 (100)
40	0 (100)	0 (100)	0 (100)	0 (100)	0 (100)
45	0 (100)	0 (100)	0 (100)	0 (100)	0 (100)
50	0 (100)	0 (100)	0 (100)	0 (100)	0 (100)

10
B
COMPOST FILTER SOCK
NTS



10
C
TRIPLE STACK FILTER SOCK
NTS



IFP
ISSUED FOR PERMITTING
DATE: 1/24/2022
AFE # A08641

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
1.	ALL DESIGN, STRENGTH OF PIPELINE AND MAP CALCULATIONS ALONG WITH ROUTING WERE PREPARED BY ANTERO AND PROVIDED TO THRASHER FOR INCLUSION ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR ROUTE PROVIDED BY ANTERO.	
2.	THIS SHEET IS INTENDED TO BE PLOTTED ON ANSI D (22" x 34"), FOR REDUCTIONS, REFER TO GRAPHIC SCALE.	

Antero
Midstream

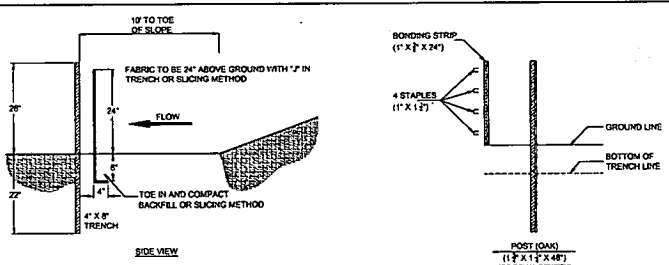
**OXFORD 98 PIPELINE
ESCP DETAILS**

PROPOSED 16" STEEL GAS LINE
& 18" HDPE SURFACE WATER LINE
DODDORIDGE COUNTY, WEST VIRGINIA

DATE: 1/24/2022
SCALE: AS SHOWN SHEET 15
DRAWN BY: JLD (JLD)
CHECKED: JLD (JLD)

SHT. NAME: 050-6935\OX98PL\ESCP4 REV. 2

USER: JAMES J. HAYES
 PLOT DATE/TIME: 1/24/2022 9:45 AM
 PROJECT: ANTERO OXFORD 98 ESCP DETAIL SHEETING



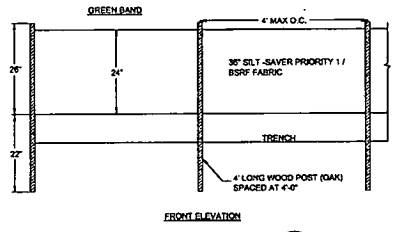
ATTACHING TWO SILT FENCES WHEN TRENCHING IS USED

PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE

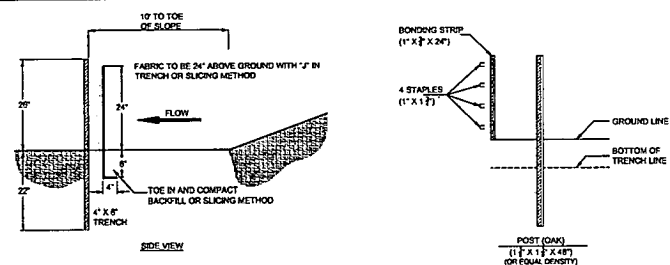
ROTATE BOTH POST AT LEAST 180° IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL

DIRECTION OF RUNOFF WATER

DRIVE BOTH POSTS ABOUT 12 INCHES INTO THE GROUND AND BURY THE FLAP IN A TRENCH



7 A SILT SAVER SILT FENCE PRIORITY 1



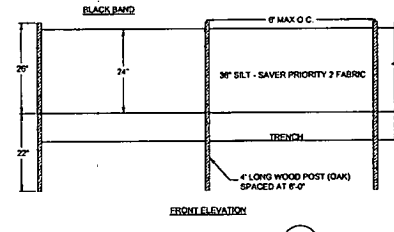
ATTACHING TWO SILT FENCES WHEN TRENCHING IS USED

PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE

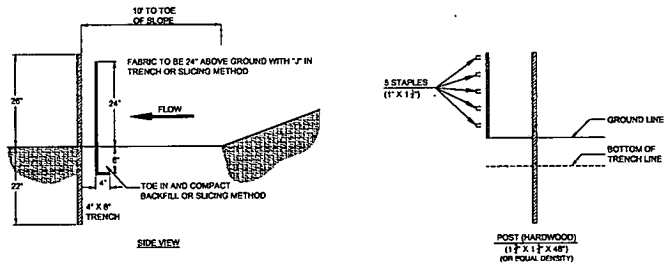
ROTATE BOTH POST AT LEAST 180° IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL

DIRECTION OF RUNOFF WATER

DRIVE BOTH POSTS ABOUT 12 INCHES INTO THE GROUND AND BURY THE FLAP IN A TRENCH



7 B SILT SAVER SILT FENCE PRIORITY 2



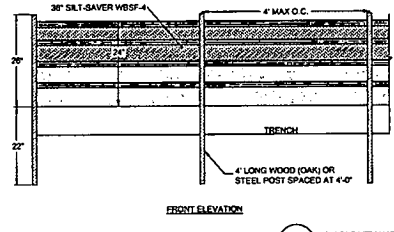
ATTACHING TWO SILT FENCES WHEN TRENCHING IS USED

PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE

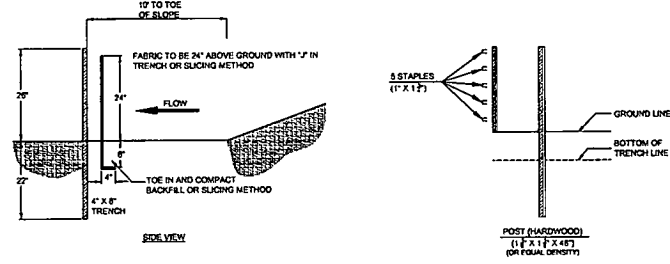
ROTATE BOTH POST AT LEAST 180° IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL

DIRECTION OF RUNOFF WATER

DRIVE BOTH POSTS ABOUT 12 INCHES INTO THE GROUND AND BURY THE FLAP IN A TRENCH



8 A HEAVY DUTY WOVEN BELTED WBSF2S-4 SILT FENCE 2 STAGE



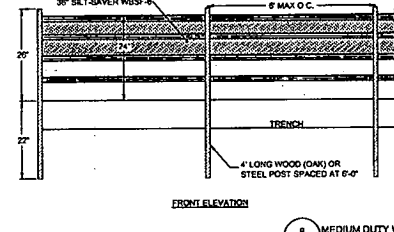
ATTACHING TWO SILT FENCES WHEN TRENCHING IS USED

PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE

ROTATE BOTH POST AT LEAST 180° IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL

DIRECTION OF RUNOFF WATER

DRIVE BOTH POSTS ABOUT 12 INCHES INTO THE GROUND AND BURY THE FLAP IN A TRENCH



8 B MEDIUM DUTY WOVEN BELTED WBSF2S-6 SILT FENCE 2 STAGE

THRASHER

IFP

ISSUED FOR PERMITTING

DATE: 1/24/2022

AFE # A08641

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)		
NO.	DESCRIPTION	QTY

GENERAL INFORMATION		
1.	ALL DESIGN, STRENGTH OF PIPELINE AND HAUP CALCULATIONS ALONG WITH ROLLING WERE PREPARED BY ANTERO AND PROVIDED TO THRASHER FOR INCLUSION ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR ROUTE PROVIDED BY ANTERO.	
2.	DES SHEET IS INTENDED TO BE PLOTTED ON A10 (24" X 36"), FOR REDUCTIONS, REFER TO DRAWING SCALE.	

Antero
MIDSTREAM

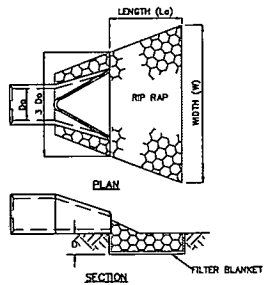
**OXFORD 98 PIPELINE
ESCP DETAILS**

PROPOSED 16" STEEL GAS LINE
& 18" HDPE SURFACE WATER LINE
DODDRIDGE COUNTY, WEST VIRGINIA

DATE: 1/24/2022

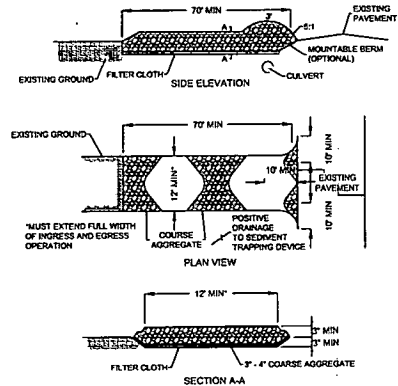
SHEET 16

SHT. NAME: 050-6935-0X98PL_ESCP3 REV. 2



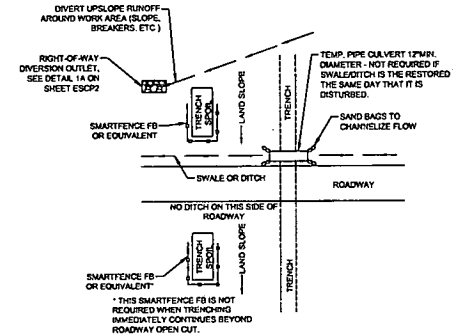
- NOTES:**
1. IF FLARED END SECTION IS DISCHARGING INTO DITCH FROM THE SIDE, EXTEND RPP RAP UP DITCH BANK ON OFF-SIDE A MINIMUM OF 4 FEET.
 2. USE INVERT RPP RAP GRADATION AND FILTER BLANKET REQUIREMENTS PER SECTION 3.17 OF THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL.
 3. A SUITABLE NON-WOVEN GEOTEXTILE FABRIC, USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, MAY BE SUBSTITUTED FOR FILTER BLANKET STONE UNDER THE RPPRAP.
 4. $d = 1.5$ TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".

17 RPP RAP APRON
NTS

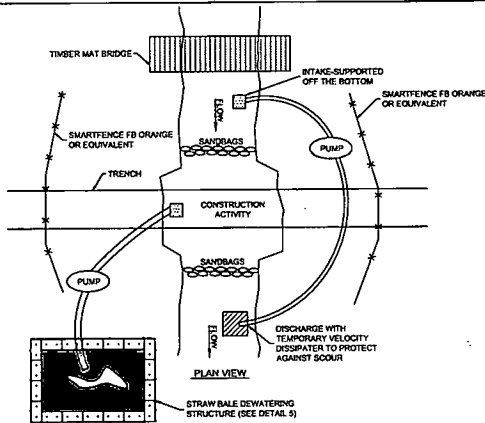


- CONSTRUCTION PREPARATIONS:**
1. CLEAR THE ENTRANCE AND ENT AREA OF ALL OBSTACLES, ROOTS, AND OTHER REMOVABLE MATERIAL, AND REMOVE EXCESSIVE SOIL.
 2. PLACE 2" x 4" DIMENSIONED WOOD TO MATCH PREPARED PLAN AT ENTRANCE AND BUREN TO PROVIDE DRAINAGE SPACE NECESSARY TO DRAIN WATER TO A REMOTE POINT OR OTHER NATURAL DRAINAGE.
 3. IT IS RECOMMENDED TO MAKE A STORAGE OF EXCESS DEBRIS.
- MAINTENANCE:**
- SURVEY THE AREA, AND IN A CONDITION TO PREVENT USE OF ENTRANCE FROM 15 MIN BEFORE CONSTRUCTION BEGINS TO 15 MIN AFTER CONSTRUCTION ENDS. REMOVE ALL DEBRIS, ROOTS, BRUSH, AND OTHER PUBLIC OBSTACLES. MAINTENANCE SHOULD BE PROVIDED DAILY, BUT AT A MINIMUM EVERY FIVE DAYS AND AFTER EVERY RAIN OF 0.5 INCH OR GREATER.

18 STABILIZED CONSTRUCTION ENTRANCE
NTS

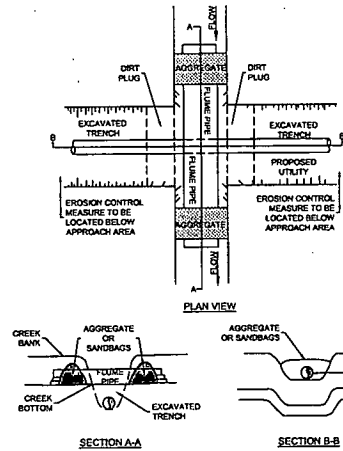


19 OPEN CUT ROAD CROSSING
NTS

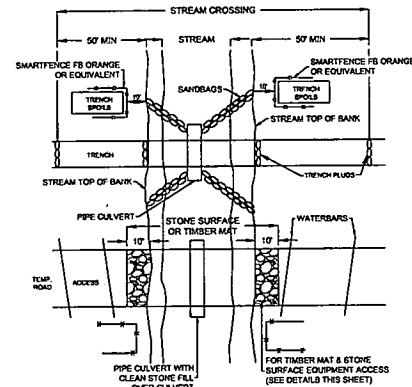


- NOTES:**
1. DEWATERING STRUCTURE SHOULD BE PLACED IN WELL VEGETATED STRIP.
 2. TOP 6"-12" OF NATURAL STREAM SUBSTRATE SHOULD BE ISOLATED DURING IN-STREAM TRENCHING AND RESTORED UPON COMPLETION OF FINAL STREAM STABILIZATION.
 3. ENVIRONMENTAL INSPECTOR MUST VERIFY DAM AND PUMP AROUND SETUP.
 4. MUST BE A MINIMUM OF 5 FEET OF COVER FROM TOP OF PIPE TO NATURAL GROUND.
 5. PIPE SAG SECTION SHOULD BE WELDED PRIOR TO TRENCHING ACTIVITY COMMENCES.
 6. ACCUMULATION OF TRENCH WATER MUST BE PUMPED TO DEWATERING STRUCTURE.
 7. IN-STREAM WORK MUST BE COMPLETED WITHIN 24 HOURS (HIGH WATER MARK TO HIGH WATER MARK).
 8. STREAM BUFFER AREA MUST BE RESTORED WITHIN 72 HOURS.

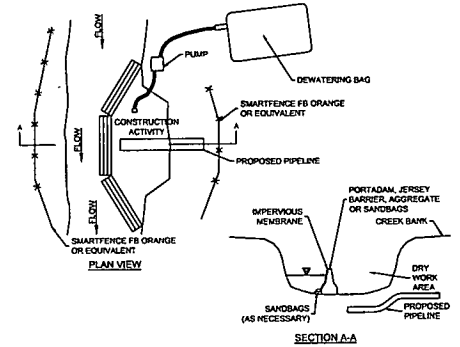
20 OPEN CUT STREAM CROSSING
NTS



21 FLUME PIPE CROSSING
NTS



22 FLUMED STREAM CROSSING WITH ACCESS ROAD
NTS



23 COFFERDAM CROSSING
NTS

THRASHER

IFP

ISSUED FOR PERMITTING

DATE: 1/24/2022

AFE # A08641

SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY	NO.	DESCRIPTION	QTY

GENERAL INFORMATION

1. ALL DESIGN, STRENGTH OF PIPELINE AND HAUP CALCULATIONS ALONG WITH ROUTING WERE PREPARED BY ANTERO AND PROVIDED TO THRASHER FOR INCLUSION ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR ROUTE PROVIDED BY ANTERO.
2. THIS SHEET IS INTENDED TO BE PLOTTED ON AHS D (24" x 34") FOR REDUCTIONS, REFER TO DRAWING SCALE.

Antero
Midstream

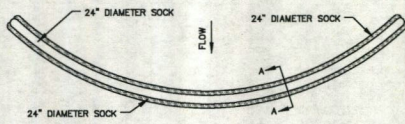
**OXFORD 98 PIPELINE
ESCP DETAILS**

PROPOSED 16" STEEL GAS LINE
& 18" HDPE SURFACE WATER LINE
DOODRIDGE COUNTY, WEST VIRGINIA

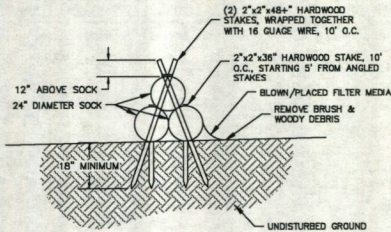
DATE: 1/24/2022
PROJECT NO.: 050-6935-01
SHEET 18
SHT. NAME: 050-6935\OXFBPL_VESC06 REV. 2

USER: bmad.jm@antero.com
 PLOT DATE/TIME: 1/24/2022 8:45 AM
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LAYOUT TAB: ESCP10
 CAD FILE: R:\050\050-6935-07050-01-ANTERO\Drawings\PLANS\ESCP DETAIL SHEETS.dwg
 USER: Jerald Jenkins
 PLOT DATE/TIME: 1/24/2022 8:45 AM

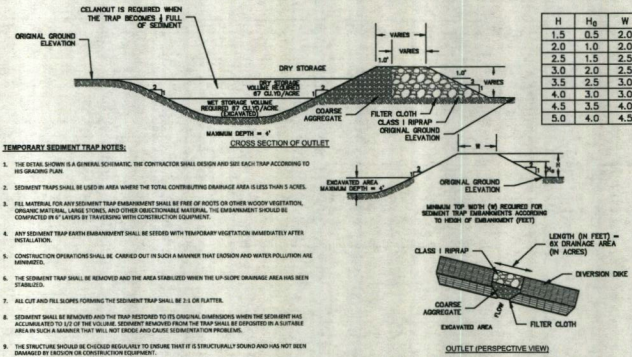


PLAN VIEW



SECTION A-A

41 TRIPLE STACK FILTER SOCK SEDIMENT TRAP
NTS



TEMPORARY SEDIMENT TRAP NOTES:

- THE DETAIL SHOWN IS A GENERAL SCHEMATIC. THE CONTRACTOR SHALL DESIGN AND SIZE EACH TRAP ACCORDING TO HIS GRADING PLAN.
- SEDIMENT TRAPS SHALL BE USED IN AREA WHERE THE TOTAL CONTRIBUTING DRAINAGE AREA EXCEEDS 3 ACRES.
- FILL MATERIAL FOR ANY SEDIMENT TRAP EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LIME STONES, AND OTHER CORROSIONAL MATERIAL. THE EMBANKMENT SHOULD BE CONSTRUCTED BY LAYERS BY TROWELING WITH CONSTRUCTION EQUIPMENT.
- ANY SEDIMENT TRAP EARTH EMBANKMENT SHALL BE SEEDS WITH TEMPORARY VEGETATION IMMEDIATELY AFTER INSTALLATION.
- CONTRACTOR OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
- THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE UP-SLOPE DRAINAGE AREA HAS BEEN STABILIZED.
- ALL CUT AND FILL SLOPES FORMING THE SEDIMENT TRAP SHALL BE 3:1 OR FLATTER.
- SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 OF THE VOLUME. SEDIMENT REMOVED FROM THE TRAP SHALL BE DEPOSITED IN A SATURATED AREA IN SUCH A MANNER THAT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
- THE STRUCTURE SHOULD BE CHECKED REGULARLY TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
- A RIPRAP SHOULDER CHANNEL MAY BE NECESSARY IF A CONCENTRATED OUTLET FLOW IS ANTICIPATED.
- FILTER STONE SHALL BE SUFFICIENT CHOICES TO ENSURE THAT FLOW THROUGH PERFORMANCE IS MAINTAINED. STONE CHOICES WHICH SEDIMENT SHALL BE CHOICES AND CLEARER OR RIP RAP.

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.

42 TEMPORARY SEDIMENT TRAP
NTS

NOTES:

ON MOST LOCATIONS ANTERO WILL ALSO CONSTRUCT EROSION AND SEDIMENT (EAS) CONTROLS ABOVE AND BEYOND THE EAS 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 EAS 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.

43 SUPPLEMENTAL 404 CWA BMP CONTROLS
A NTS



PHASE II:

THIS CONTROL CONSISTS OF TYPICAL SILT FENCE, SUPER SILT FENCE, OR FILTER SOCK. 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.

43 SUPPLEMENTAL 404 CWA BMP CONTROLS
B NTS



PHASE III:

THIS CONTROL CONSISTS OF SUPER SILT FENCE WITH ORANGE CONSTRUCTION FENCE ACTING AS THE VISIBLE PORTION OF THE BARRIER. THIS CONTROL IS USED TO PREVENT SOILS OR GRAVELS FROM ENTERING STREAMS OR WETLANDS DURING CONSTRUCTION. THE SUPER SILT FENCE CAN BE USED IN CONJUNCTION WITH OTHER EAS METHODS. THIS CONTROL IS USED IN AREAS WHERE STREAMS OR WETLANDS ARE WITHIN APPROXIMATELY 50 FEET OF THE DISTURBED AREA.

*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.

43 SUPPLEMENTAL 404 CWA BMP CONTROLS
C NTS

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 SEED 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.

44 DEFINITIONS
NTS

THRASHER

IFP

ISSUED FOR PERMITTING

DATE: 1/24/2022

AFE # A08641

SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

SUMMARY OF MATERIALS (3D)

NO.	DESCRIPTION	QTY

GENERAL INFORMATION

- ALL DESIGN, STRENGTH OF PIPELINE AND MAP CALCULATIONS ALONG WITH ROUTING WERE PREPARED BY ANTERO AND PROVIDED TO THRASHER FOR INCLUSION ON THE PLANS. THRASHER ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR ROUTE PROVIDED BY ANTERO.
- THIS SHEET IS INTENDED TO BE PLOTTED ON AHS D (22" x 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

Antero
Midstream

**OXFORD 98 PIPELINE
ESCP DETAILS**

PROPOSED 16" STEEL GAS LINE
& 18" HDPE SURFACE WATER LINE
DODDRIDGE COUNTY, WEST VIRGINIA

SCALE:	AS SHOWN	SHEET	22
DRAWN BY:	JUL (TJG)	CHECKED	JUL (TJG)
DATE:	1/24/2022	DATE:	1/24/2022
SHT. NAME: 050-6935\OX98PL_ESCP10		REV. 2	



ATTACHMENT E
NO-RISE CERTIFICATE



This is to certify that I am a duly qualified registered professional engineer licensed to practice in the State of West Virginia.

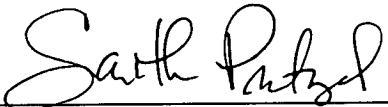
It is further to certify that based on the information provided to me, and the attached technical data supports the fact, the floodplain encroachments for the Oxford 98 Pipeline (Site) will not impact the 100-year flood elevation of Right Fork Arnold Creek at the published section in the Flood Insurance Study for Doddridge County (Community ID 540024) effective October 4, 2011 and will not impact the 100-year flood elevation at unpublished cross-sections in the vicinity of the proposed development. Work to be performed within the floodplain limits that was considered during the evaluation includes the proposed temporary disturbances associated with access roads, staging areas, and equipment and supplies supporting the pipeline installation. It should be noted that all disturbed areas proposed within the floodplain of Right Fork Arnold Creek will be reclaimed to original contours upon completion of the pipeline installation.

The total watershed (drainage basin) for the Right Fork Arnold Creek floodplain encroachments were shown to be 4.0 square miles, and maximum flows were calculated utilizing the National Streamflow Statistics (NSS) application available online. A Hydrologic Engineering Center's – River Analysis System (HEC-RAS) analysis was completed, based on the drainage area above and associated flows, to verify that no influence will occur due to the proposed activities within the floodplain for Right Fork Arnold Creek. The flows compared for the affected area are attached.

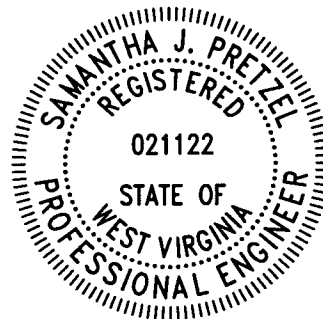
Attached are the following documents that support my findings:

- Maps of the Site from the West Virginia Flood Tool
- National Streamflow Statistics – Drainage Area Flow
- Comparison for Calculated Flows – HEC-RAS Excel Data

Date: February 8, 2022

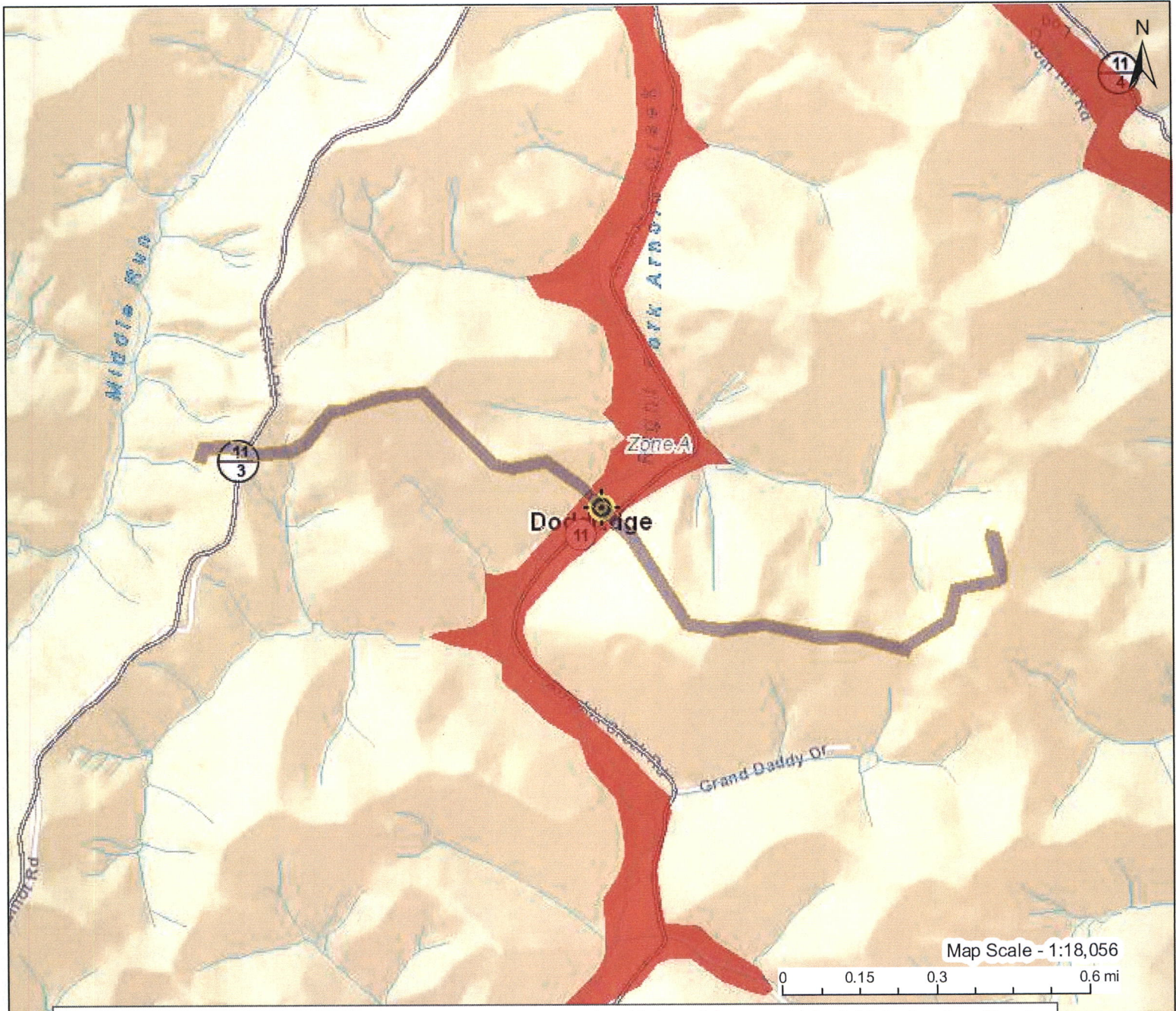
Signature: 

Title: Program Manager



APPENDIX A
WV FLOOD TOOL MAPS

WV Flood Map - Oxford 98 Pipeline



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

H I G H R I S K	Regulatory Floodway	Flood Info Location Map created on 1/18/2022	
	Zone AE		
	Zone A	Flood Hazard Area Location is WITHIN the FEMA 100-year floodplain.	
	Advisory	Flood Zone A Stream Right Fork Arnold Creek Watershed (HUC8) Little Musringum-Middle Island (5030201)	
Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf		Flood Height Flood Height 6b None Water Depth	Elevation 844.9 ft (Source: FEMA 2018-20) (NAVD88)
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. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.		Community & ID Doddridge County (ID: 540024) FEMA Map & Date 54017C0120C; Effective Date: 10/4/2011 Location (lat, long) (39.253432, -80.811234) (WGS84)	Parcel ID 09-08-0019-0008-0000 E-911 Address multiple addresses

APPENDIX B
NATIONAL STREAMFLOW STATISTICS (NSS)
RIGHT FORK ARNOLD CREEK
DODDRIDGE COUNTY, WV

National Streamflow Statistics (NSS)

File Graph Help

Analysis Type: Peak Probability Other

State: Site Name:

Rural

Oxford 98 PL
 Basin Drainage Area: 4 square miles
 1 Region
 Region:
 Peak Flow Central Mountains Region 2010_5033
 Drainage Area = 4 square miles
 Crippen & Bue Region 4

Statistic	Value, ft ³ /s	Standard Error, %	Equivalent Years
PK1_5	184	35	2
PK2	233	34	2.1
PK5	374	35	3.2
PK10	484	37	4
PK25	638	41	4.8
PK50	765	44	5.3
PK100	900	48	5.6
PK200	1040	52	5.9
PK500	1250	56	6.1
maximum: 11800 (for C&B region 4)			

Urban

No Scenarios Available

Legend

Basins

Layers

Basemaps

Input Coordinate

examples:

38 15 30.1, -81 25 15.2 (lat, lon)
38.123456, -81.123456 (lat, lon)
500000, 4200000 (UTM as easting, northing)

Lat/Lon WGS 1984

zoom to point

Go

7Q10 Query Results

Stream Name *Right Fork/Arnold Creek*
Stream Code *OMN-13-DA-20*
WV Code *WVOMI-40-I*
Drainage Area *4.062 sq mi*

Exceptions and Warnings

Regulated Flow *N*
Regulated Flow Info *NA*
Known Losing Stream *N*
Potential Karst Influence *N*
Potential Non-Perennial *N*

Gage-based Estimates

Method
Upstream Gage
Downstream Gage
Annual 7Q10 *cfs*
Spring 7Q10 *cfs*
Summer 7Q10 *cfs*
Fall 7Q10 *cfs*
Winter 7Q10 *cfs*

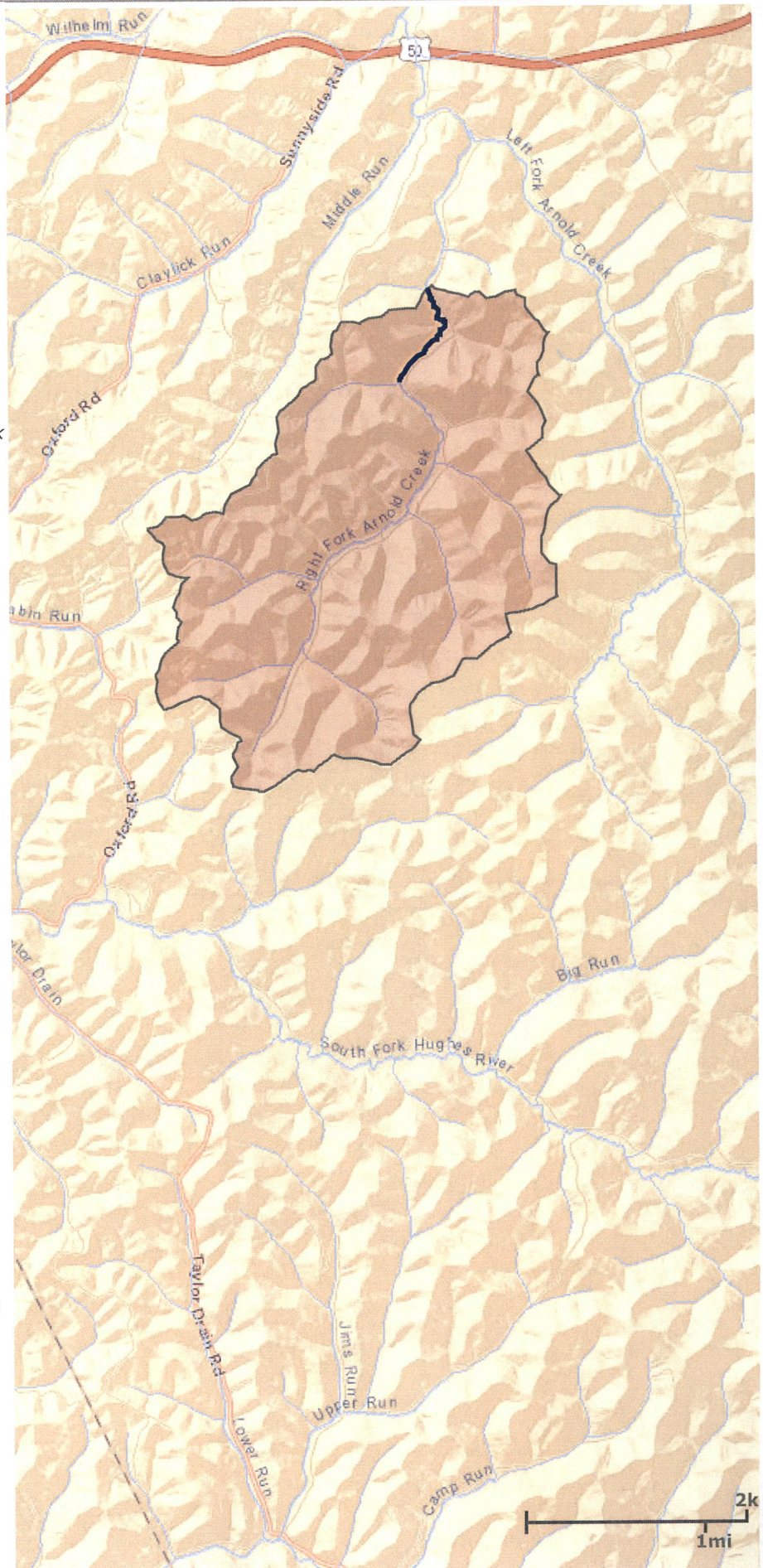
Regional Estimates

Annual 7Q10 *0.001 cfs*
Spring 7Q10 *0.034 cfs*
Summer 7Q10 *0.001 cfs*
Fall 7Q10 *0.007 cfs*
Winter 7Q10 *0.284 cfs*
Spring D50 *1.582 cfs*
Summer D50 *0.117 cfs*
Fall D50 *0.619 cfs*
Winter D50 *4.067 cfs*
D75 *0.188 cfs*
Harmonic Mean *0.072 cfs*

Guidance:

This stream is not proximate to a stream gage. Use the regional estimate.

[flow calculation methods](#)



APPENDIX C

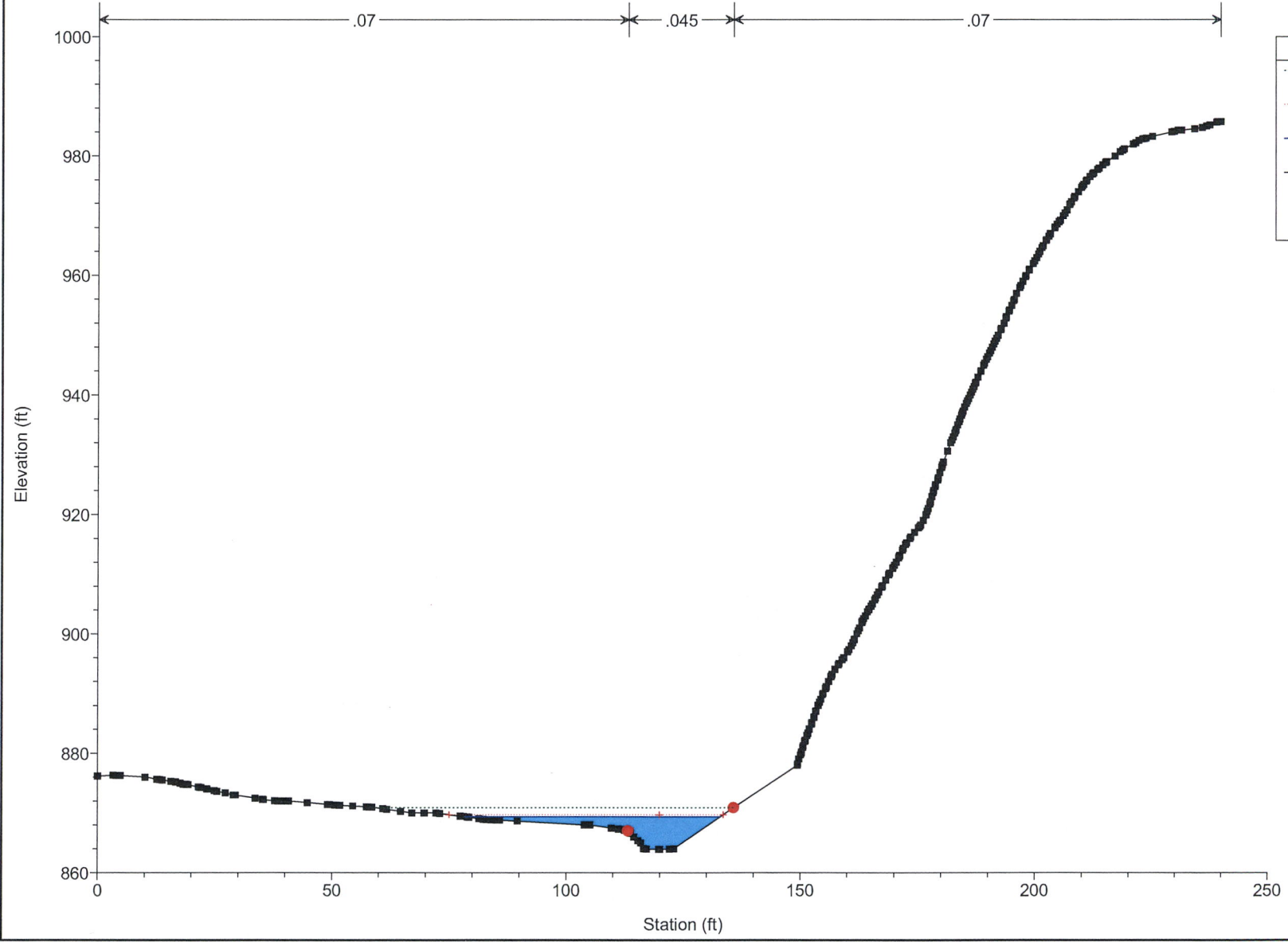
HEC-RAS FLOW COMPARISON – EXCEL SHEET
RIGHT FORK ARNOLD CREEK
DODDRIDGE COUNTY, WV

Profile Output Table - Standard Table 1

ANTERO - OXFORD 98 IMPACTS TO ARNOLD BRANCH, 100-YEAR WATER SURFACE COMPARISON

Reach	River Sta	Profile	Q Total (cfs)	Condition	Min Ch El (ft)	W.S. Elev (ft)	WS Diff (ft)	Vel Chnl (ft/s)	Vel. Diff. (sq ft)	Top Width (ft)	Top Width Diff (ft)
Steam CL	1400	PF 1	900	Existing		869.36	0.00	10.65	0.00	54.52	0.00
				Proposed	863.94	869.36		10.65		54.52	
Steam CL	1300	PF 1	900	Existing		865.94	0.00	14.50	0.00	36.34	0.00
				Proposed	860.96	865.94		14.50		36.34	
Steam CL	1231.07	PF 1	900	Existing		865.07	0.00	11.00	0.00	50.10	0.00
				Proposed	859.99	865.07		11.00		50.10	
Steam CL	1100	PF 1	900	Existing		863.56	0.00	4.91	0.00	54.37	0.00
				Proposed	857	863.56		4.91		54.37	
Steam CL	1000	PF 1	900	Existing		861.89	0.00	10.96	0.00	50.94	0.00
				Proposed	855.96	861.89		10.96		50.94	
Steam CL	900	PF 1	900	Existing		859.98	0.00	7.67	0.00	45.87	0.00
				Proposed	853.97	859.98		7.67		45.87	
Steam CL	800	PF 1	900	Existing		858.64	0.00	9.98	0.00	37.51	0.00
				Proposed	852	858.64		9.98		37.51	
Steam CL	700	PF 1	900	Existing		857.14	0.00	10.75	0.00	48.73	0.00
				Proposed	850	857.14		10.75		48.73	
Steam CL	614.59	PF 1	900	Existing		854.86	0.00	8.33	0.00	60.81	0.00
				Proposed	849	854.86		8.33		60.81	
Steam CL	500	PF 1	900	Existing		852.68	0.00	10.80	0.00	53.15	0.00
				Proposed	847	852.68		10.80		53.15	
Steam CL	400	PF 1	900	Existing		852.32	0.00	7.25	0.00	68.13	0.00
				Proposed	846	852.32		7.25		68.13	
Steam CL	300	PF 1	900	Existing		850.92	0.00	9.94	0.00	43.96	0.00
				Proposed	843.99	850.92		9.94		43.96	
Steam CL	200	PF 1	900	Existing		848.87	0.00	11.65	0.00	46.23	0.00
				Proposed	841.99	848.87		11.65		46.23	
Steam CL	100	PF 1	900	Existing		847.93	0.16	7.37	-0.35	65.16	0.98
				Proposed	841.13	848.09		7.02		66.14	
Steam CL	9.81	PF 1	900	Existing		847.26	0.17	7.88	0.38	58.55	0.64
				Proposed	843	847.43		8.26		59.19	

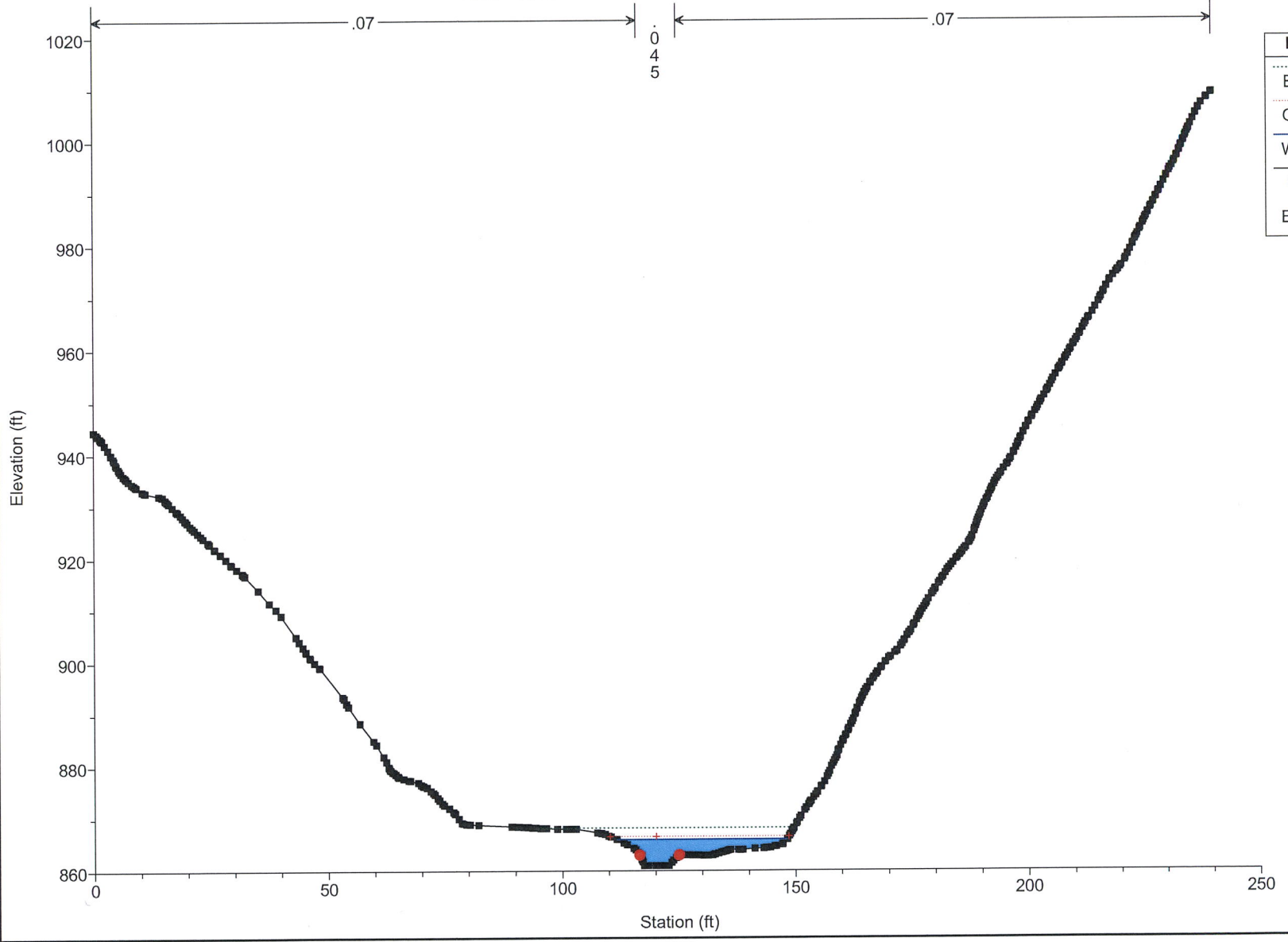
Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 1400



Legend

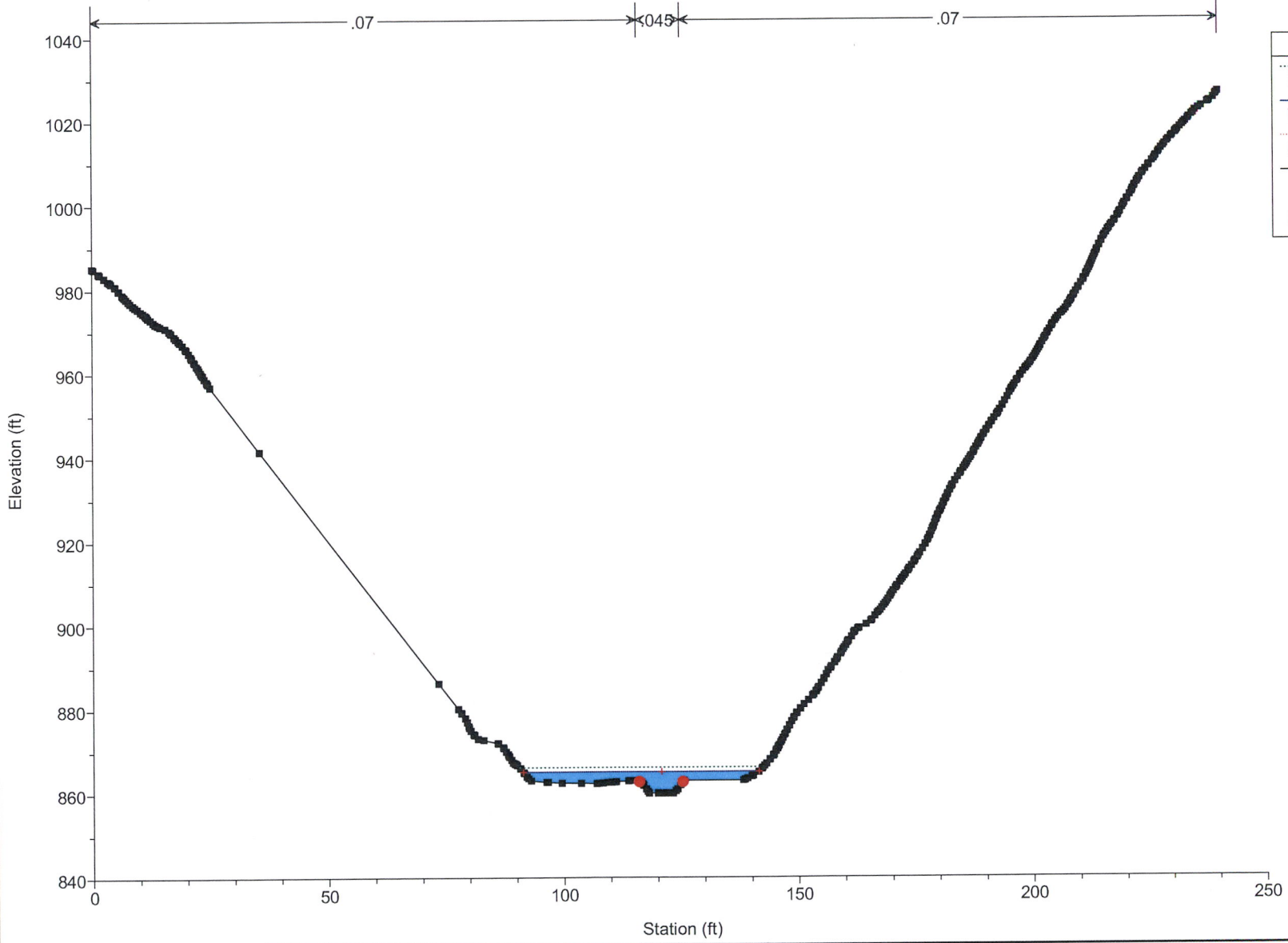
- EG PF 1
- Crit PF 1
- WS PF 1
- Ground
- Bank Sta

Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 1300



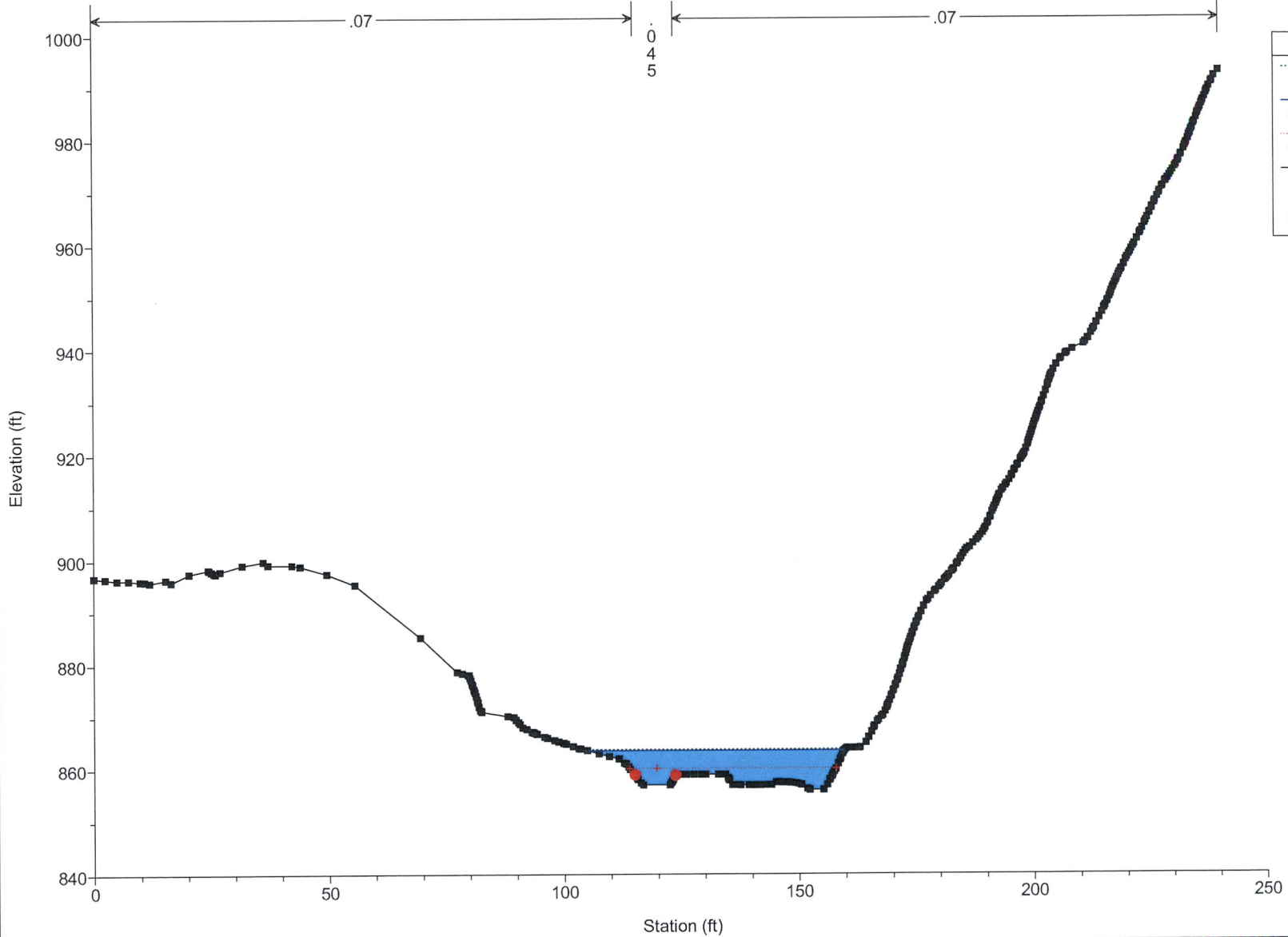
Legend	
EG PF 1
Crit PF 1+
WS PF 1	-----
Ground	—■—
Bank Sta	●

Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 1231.07



Legend	
EG PF 1	(dotted line)
WS PF 1	(blue shaded area)
Crit PF 1	(dotted line)
Ground	(solid black line)
Bank Sta	(red dot)

Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 1100

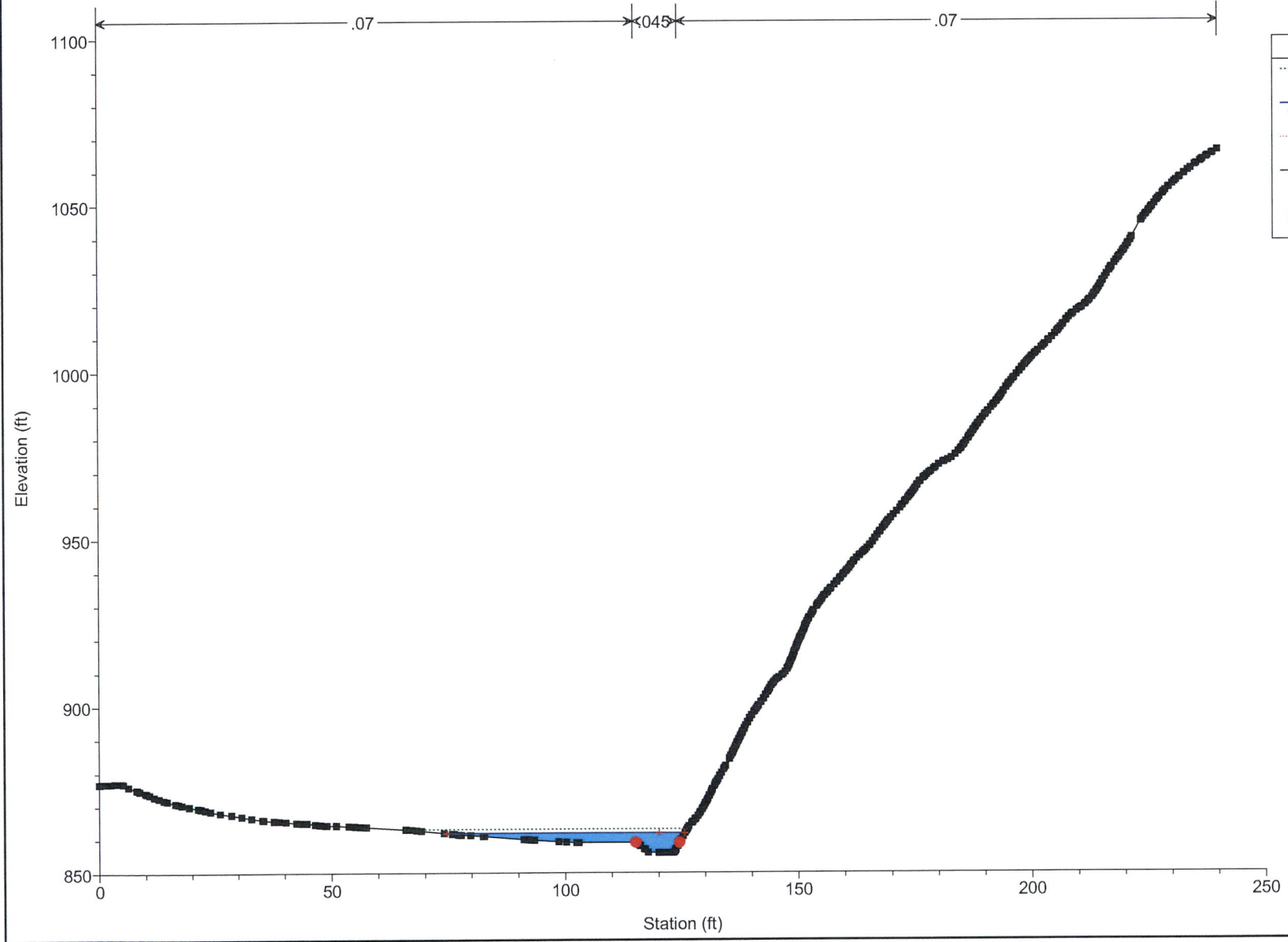


Legend

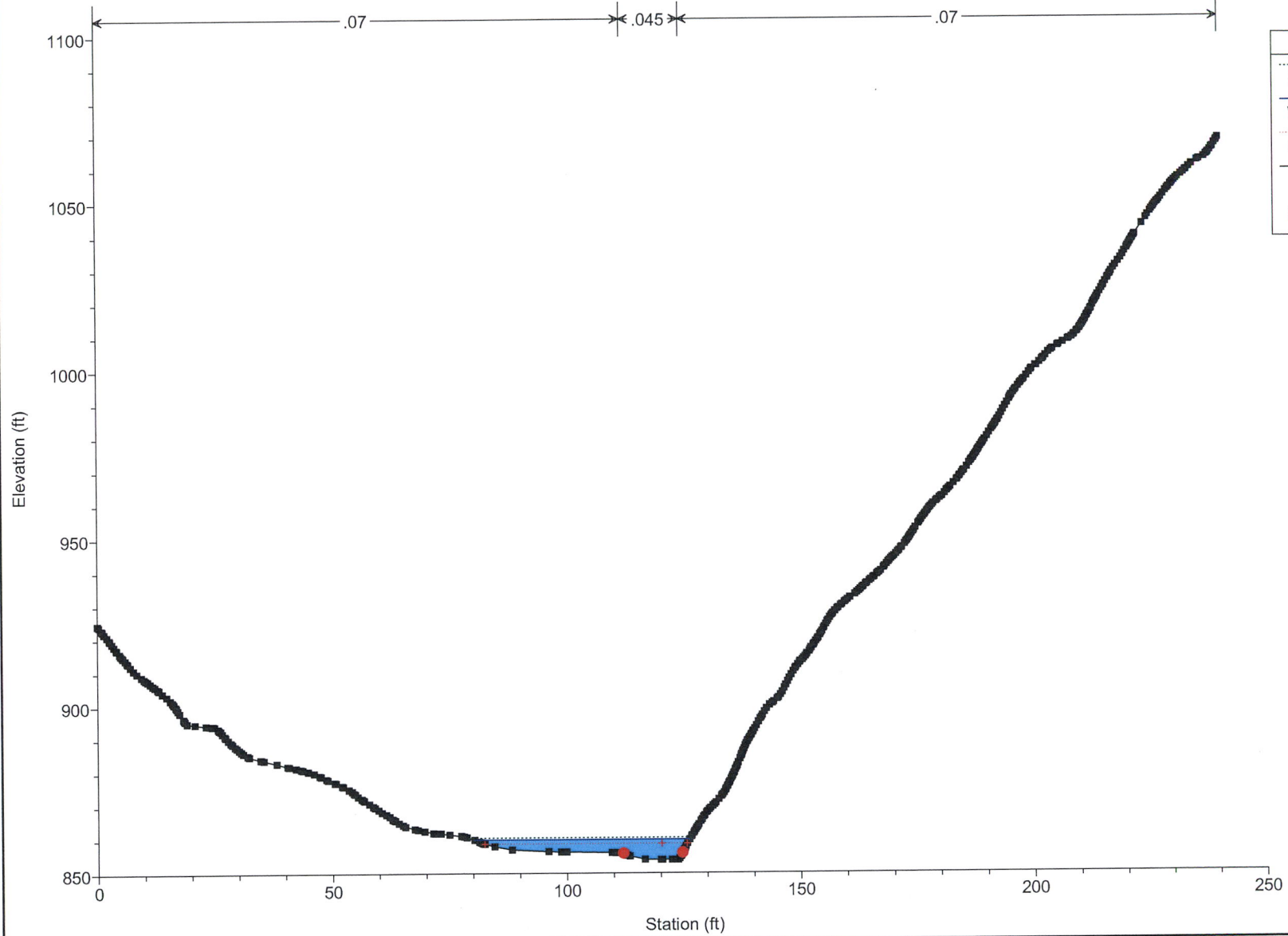
- EG PF 1
- WS PF 1
- Crit PF 1
- Ground
- Bank Sta

Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 1000

Legend	
EG PF 1
WS PF 1	————
Crit PF 1+.....
Ground	■
Bank Sta	●

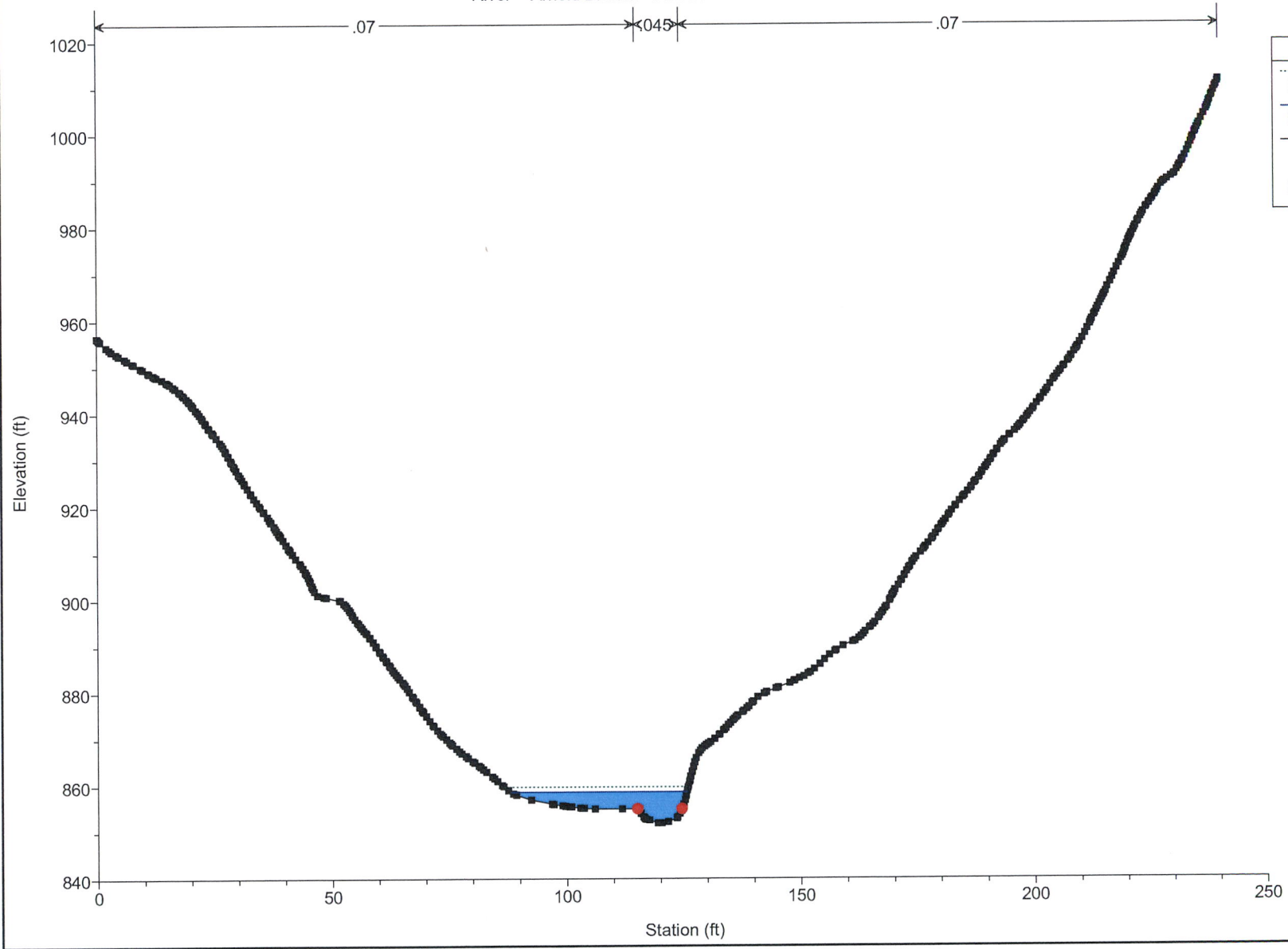


Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 900

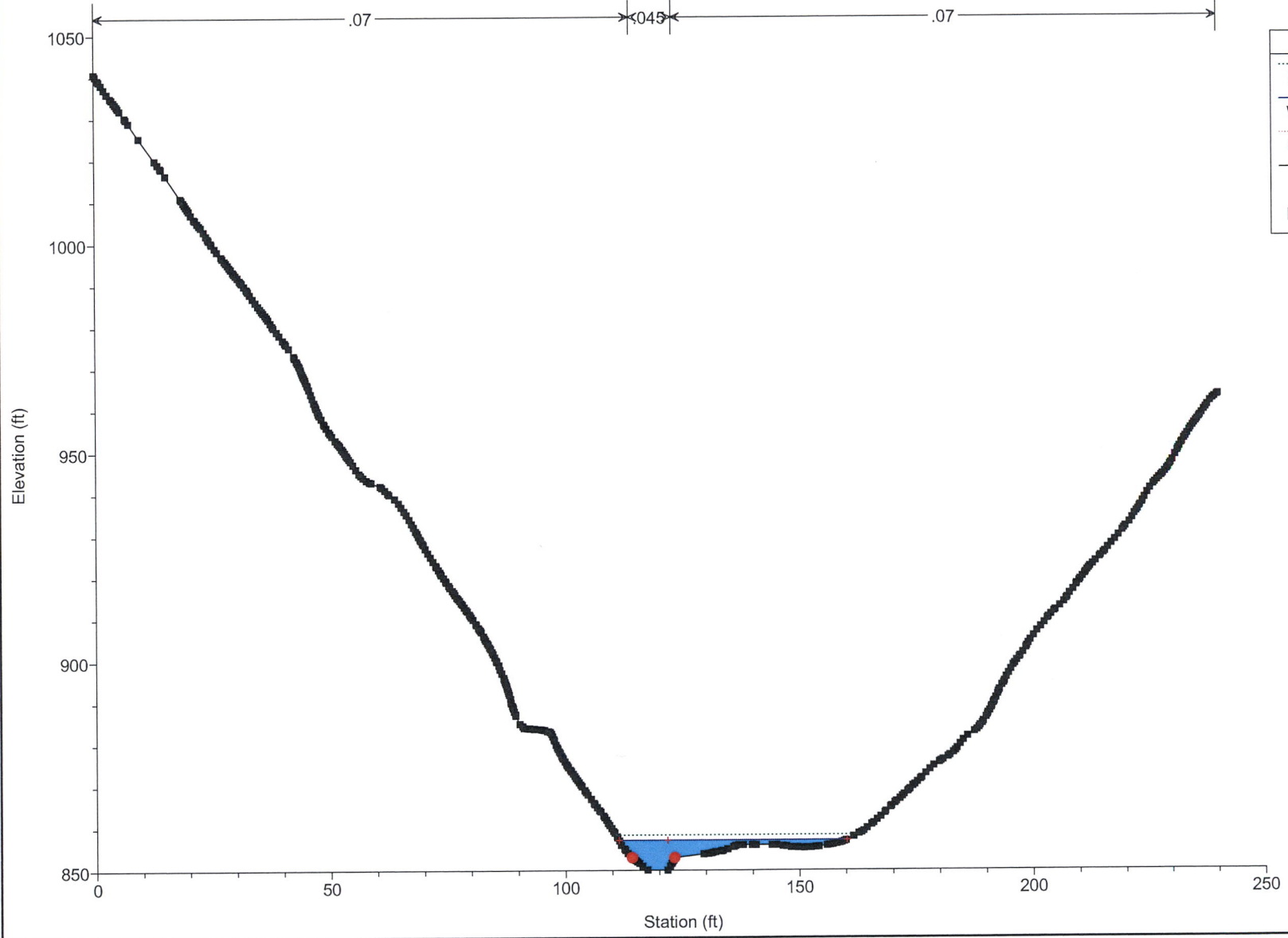


Legend	
.....	EG PF 1
————	WS PF 1
.....+	Crit PF 1
————■	Ground
●	Bank Sta

Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 800

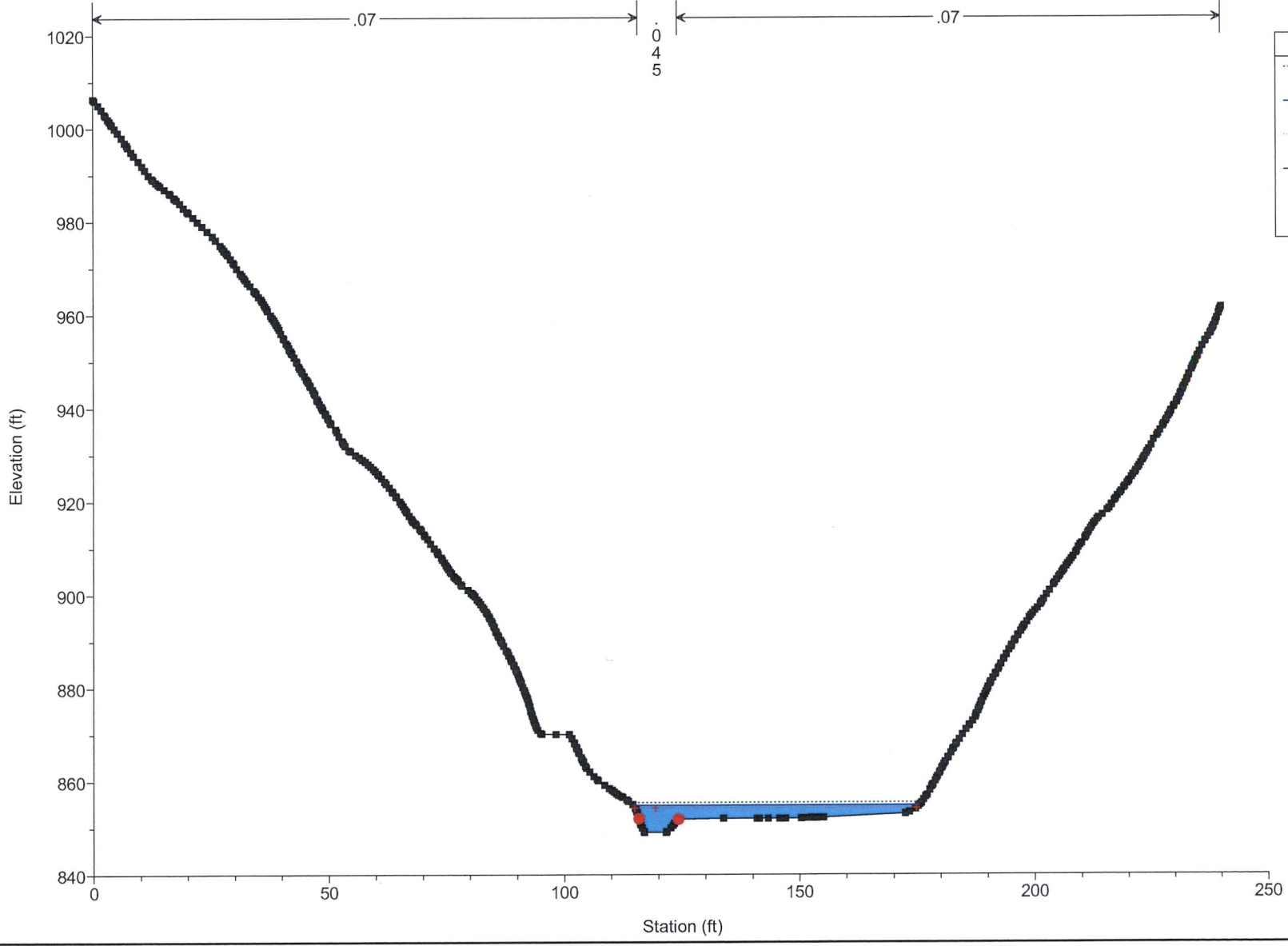


Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 700



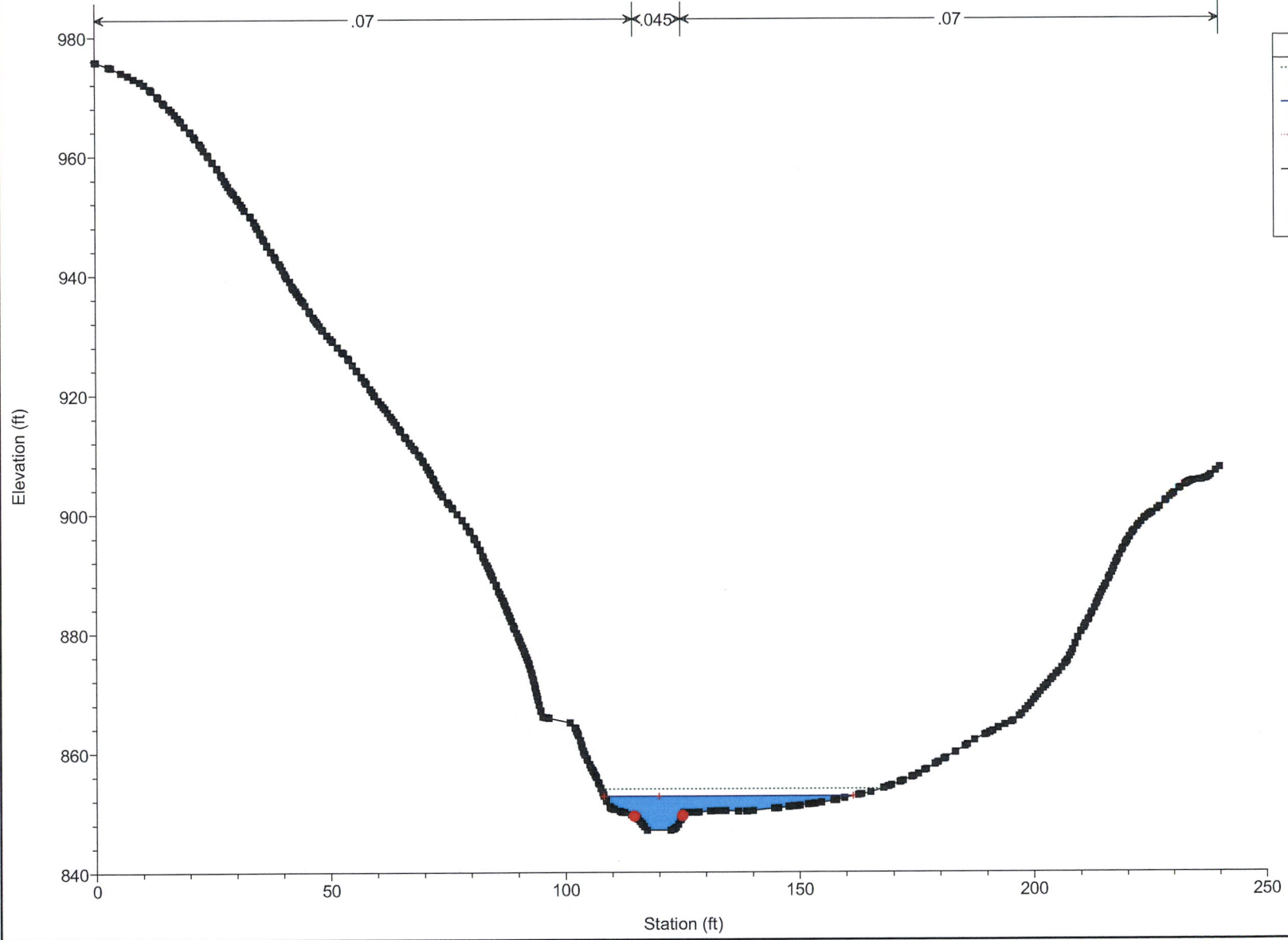
Legend	
EG PF 1
WS PF 1	-----
Crit PF 1	-----
Ground	————
Bank Sta	●

Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 614.59



Legend	
.....	EG PF 1
————	WS PF 1
—+—	Crit PF 1
————	Ground
●	Bank Sta

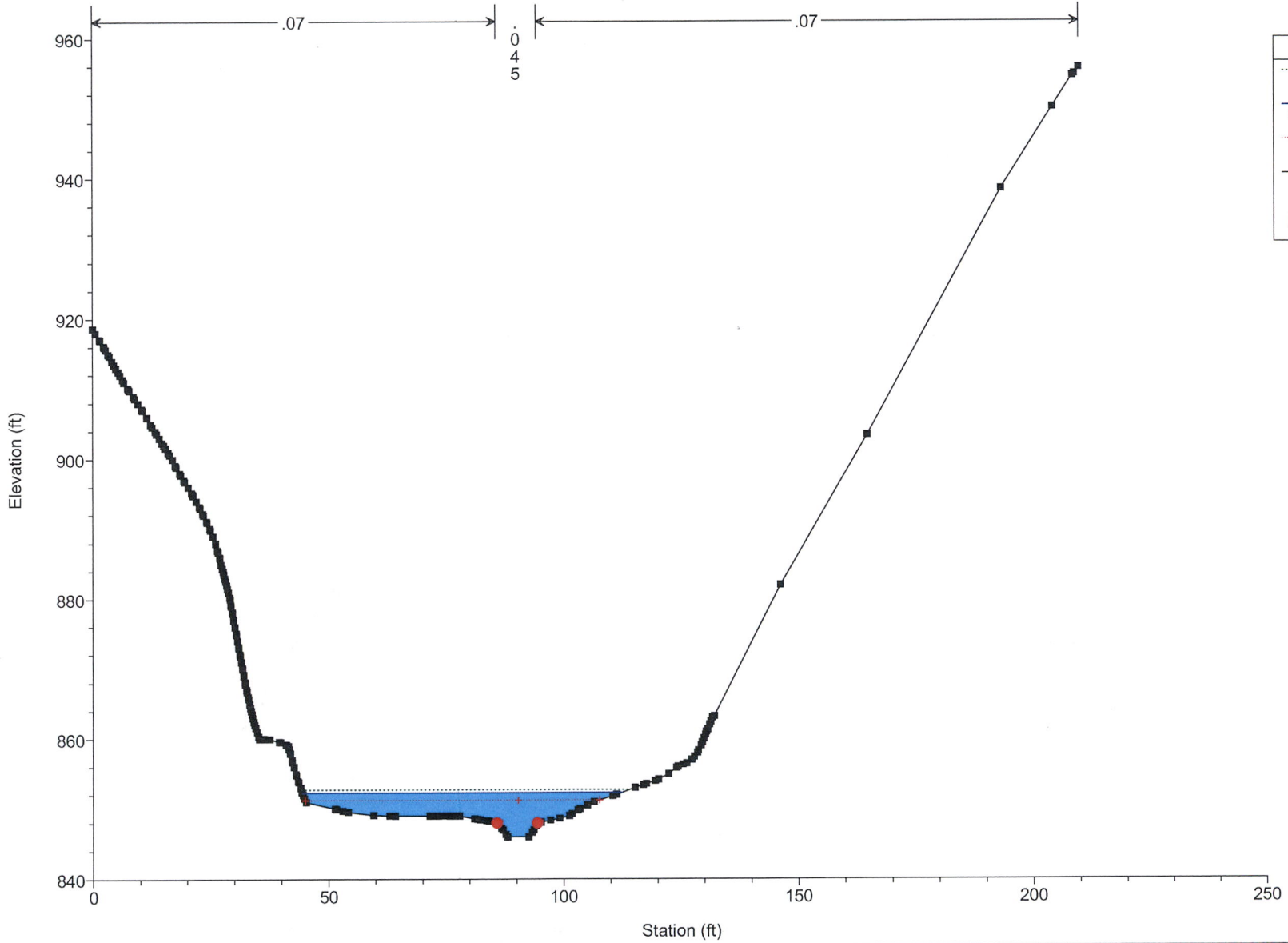
Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 500



Legend	
EG PF 1	(dotted line)
WS PF 1	(solid line)
Crit PF 1	(red cross)
Ground	(thick black line)
Bank Sta	(red dot)

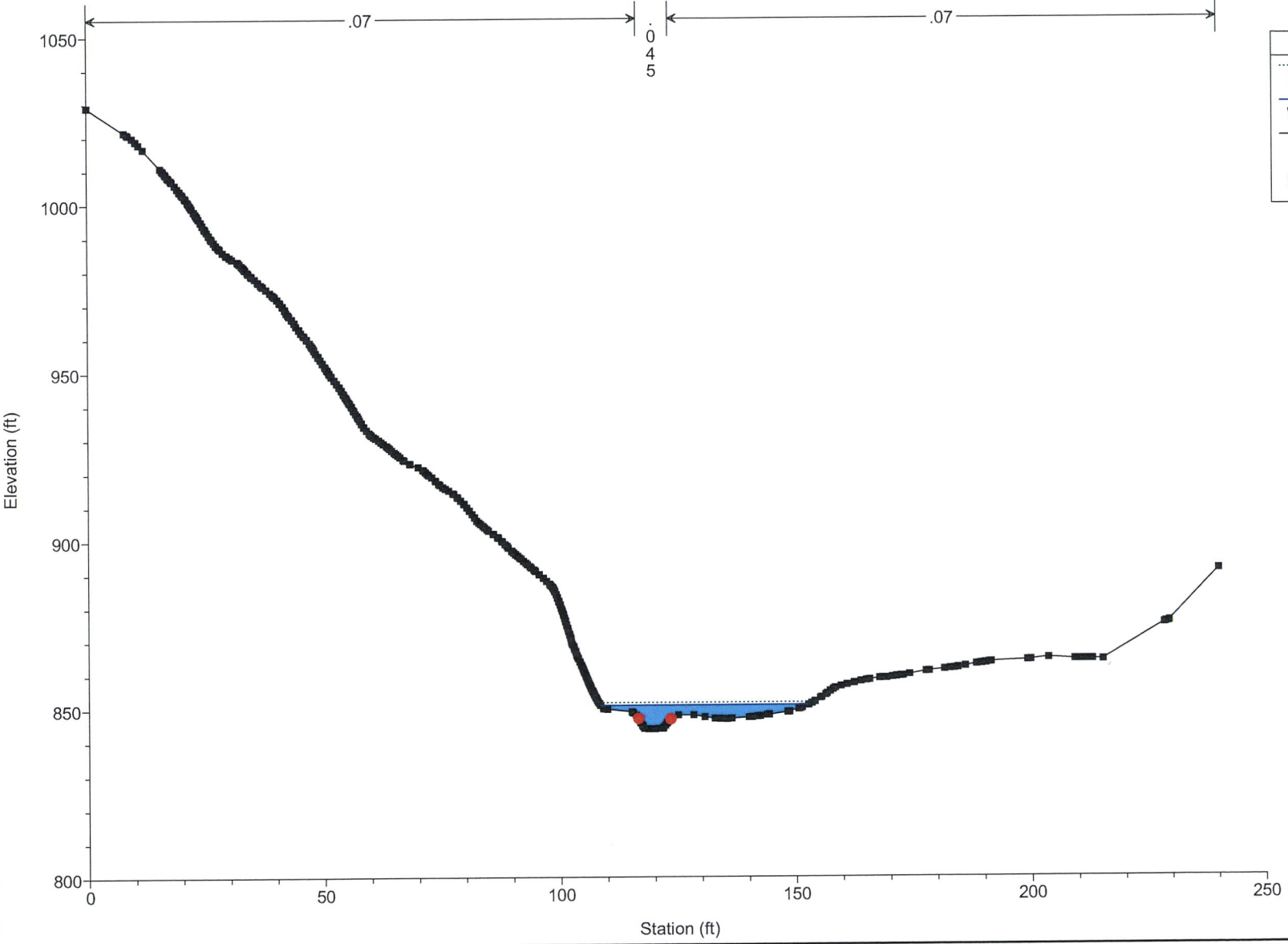
Oxford98 Plan: Blocked 2/8/2022

River = Arnold Branch Reach = Steam CL RS = 400



Legend	
.....	EG PF 1
-----	WS PF 1
.....+	Crit PF 1
—■—	Ground
●	Bank Sta

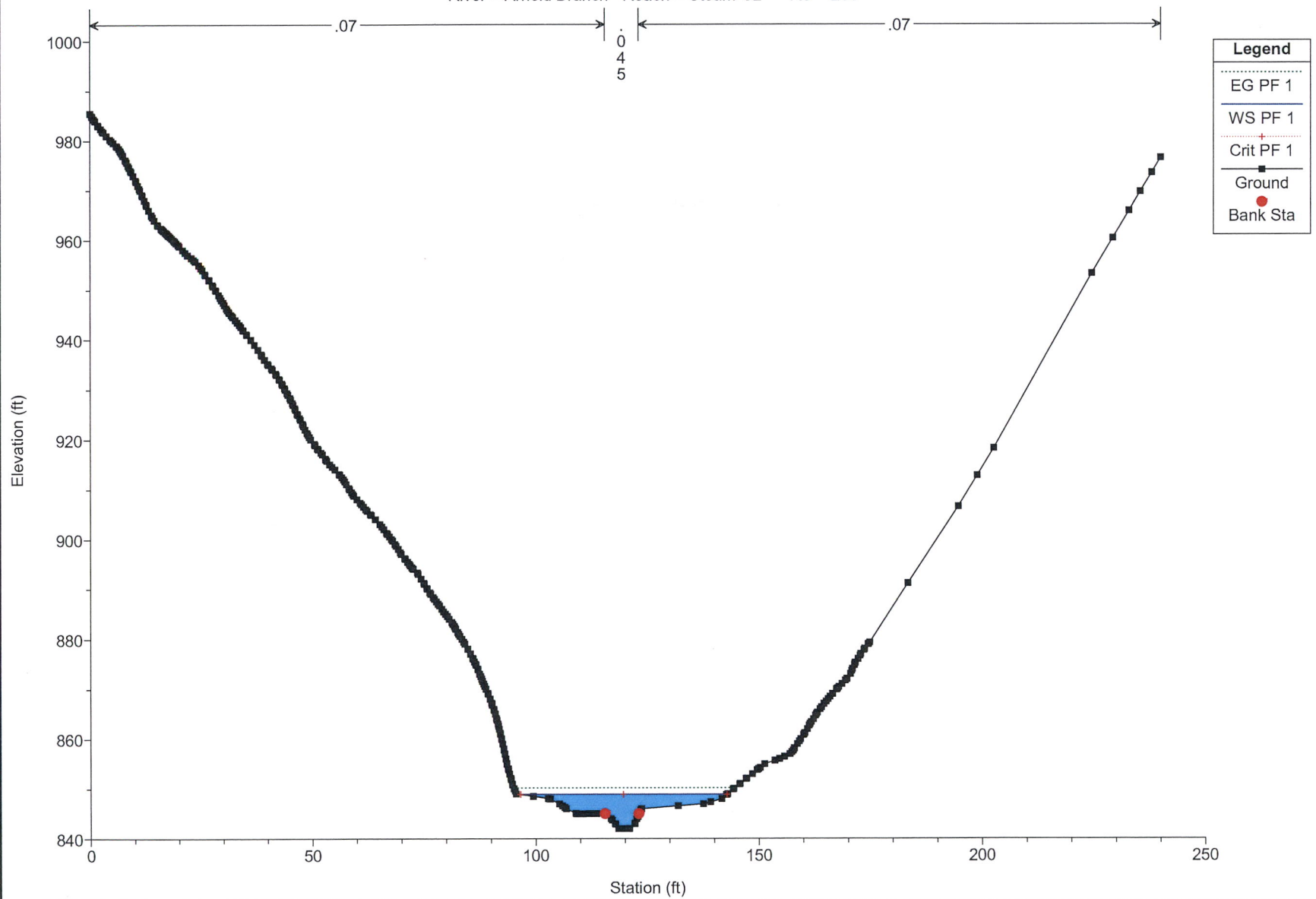
Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 300



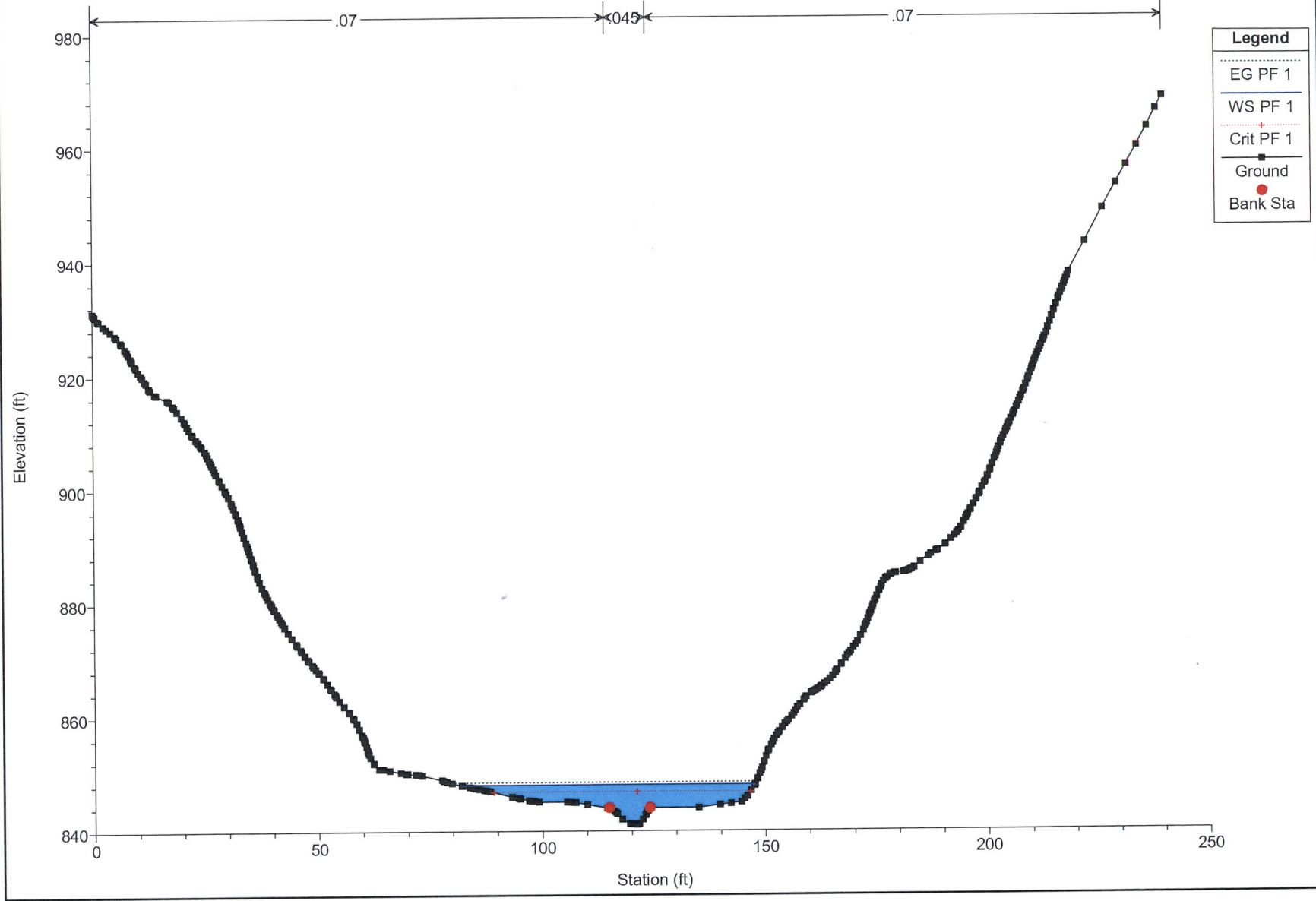
Legend

- EG PF 1
- WS PF 1
- Ground
- Bank Sta

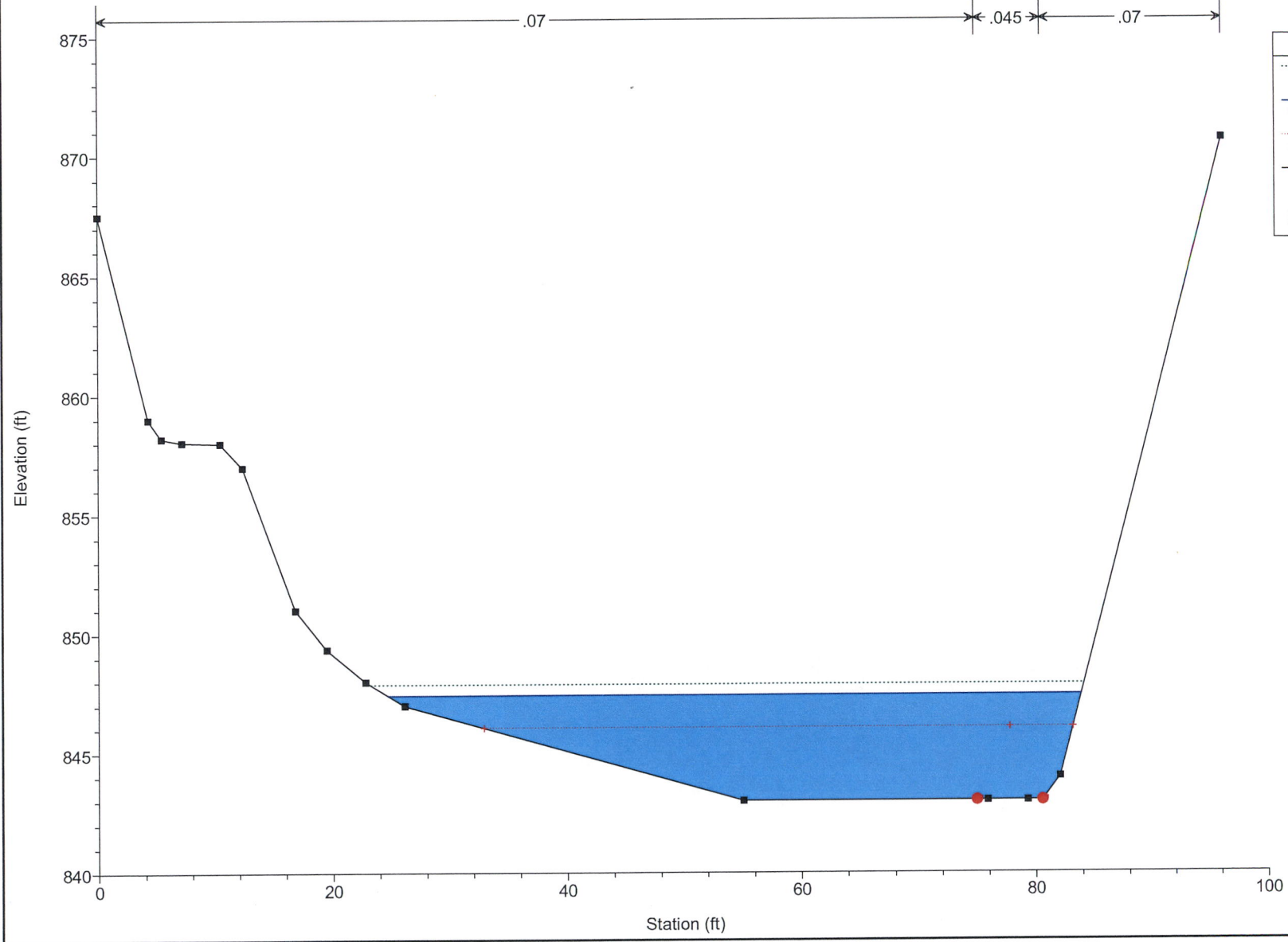
Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 200



Oxford98 Plan: Blocked 2/8/2022
River = Arnold Branch Reach = Steam CL RS = 100



Oxford98 Plan: Blocked 2/8/2022
 River = Arnold Branch Reach = Steam CL RS = 9.81



Legend	
.....	EG PF 1
-----	WS PF 1
.....	Crit PF 1
■	Ground
●	Bank Sta



ATTACHMENT F
PERMITTING AND COORDINATION

Permitting and Coordination

Permitting Agency	Permit/Coordination Required	Submitted	Received (Anticipated)	Status
USACE ¹	NWP 12	01/25/22	(03/11/22)	PCN Required
	Mitigation Plan	Not Applicable	Not Applicable	Not Applicable
USFWS ²	Threatened & Endangered Species (Section 7 Coordination)	01/21/22	(03/07/22)	Pending
WVSHPO ³	Section 106 Coordination	USACE to Initiate Consultation with WVSHPO. The Cultural Resources Assessment was Included in the Nationwide Permit Submittal.		Required
	Phase I & Architectural Survey			
WVDNR-OLS ⁴	Stream Activity Application (SAA)	01/25/22	(02/24/22)	Pending
WVDNR-WRS ⁵	Threatened & Endangered State Species	01/25/22	(02/24/22)	Pending
	Spawning Waiver	01/27/22	01/28/22	Approved
County Floodplain Manager	Doddridge County Floodplain Coordination	To Be Submitted	To Be Submitted	To Be Submitted
WVDEP ⁶	401 WQC Program Notification	01/25/22	02/07/22	Approved
	NPDES ⁷ Permit	Not Applicable	Not Applicable	Not Applicable
	Construction Stormwater General Permit	01/24/22	02/23/22	Pending
WVDOH ⁸	Utility Permit	To Be Submitted	To Be Submitted	To Be Submitted

- 1 United States Army Corps of Engineers
- 2 United States Fish and Wildlife Service
- 3 West Virginia Division of Culture and History, State Historic Preservation Office
- 4 West Virginia Division of Natural Resources Office of Land and Stream
- 5 West Virginia Division of Natural Resources – Wildlife Resources Section
- 6 West Virginia Department of Environmental Protection
- 7 National Pollutant Discharge Elimination System
- 8 West Virginia Division of Highways

Matthew Albright

From: Wakeford, Anne M <anne.m.wakeford@wv.gov>
Sent: Friday, January 28, 2022 8:38 AM
To: DBulian@anteroresources.com; Matthew Albright; Danny A Bennett; John Lewis; Nate D Taylor; Jocelyn J Phares
Subject: Fwd: Antero Midstream: Oxford 98 Pipeline - 2022 Fish Spawning Waiver Request
Attachments: 20220127_Oxford 98 Pipeline_WVDNR-WRS_Fish Spawning Waiver.xlsx

External Email

Dear Daniel Bulian,

Your fish spawning waiver requests are approved. This email serves as your approval.

Please contact me if you have any questions.

Regards,

Anne

Anne M. Wakeford
Coordination Biologist
WVDNR/EOC
738 Ward Rd.
PO Box 67
Elkins, WV 26241
304-637-0245 ext 2035
Anne.M.Wakeford@wv.gov

----- Forwarded message -----

From: Matthew Albright <MAlbright@kleinfelder.com>
Date: Thu, Jan 27, 2022 at 8:14 PM
Subject: Antero Midstream: Oxford 98 Pipeline - 2022 Fish Spawning Waiver Request
To: Wakeford, Anne M <Anne.M.Wakeford@wv.gov>
Cc: John Lewis <JALewis@kleinfelder.com>, Daniel Bulian (dbulian@anteroresources.com) <dbulian@anteroresources.com>, Bennett, Danny A <Danny.A.Bennett@wv.gov>

Hi Anne,

On behalf of Antero Midstream (Antero), Kleinfelder, Inc. is submitting the attached Fish Spawning Waiver Request for intermittent and perennial stream crossings associated with the Oxford 98 Pipeline for your review. Please address your response to Daniel Bulian of Antero. He is cc'd on the email and his contact information is provided below.

Daniel Bulian

Environmental Specialist III

Antero Midstream

535 White Oaks Blvd

Bridgeport, WV 26330

(304) 842-4093

dbulian@anteroresources.com

Thanks,

Matt Albright
Project Manager

51 Dutilh Rd., Suite 240
Cranberry Township, PA 16066
m | 609.947.5296



This email may contain confidential information. If you have received this email—including any attachments—in error, please notify the sender promptly and delete the email and any attachments from all of your systems.

ProjectID	ProjectName	Submitter	Date	StreamName	StreamReuma	County	VERT	LONG	Type	Observed	Duration	Purpose	StreamWidth	WatershedDrainSqM	ImpactFeet	Treatment	LicenseNumber	Rationale	Approval
KLF-STREAM02 (INT)	Oxford 98 Pipeline	Kleinfelder, Inc.	1/27/2022	UNT to Right Fork Arnsd Creek	Intermittent	Doddridge	39.251074	-80.801549	Temporary	Sometime Between April 1 & June 30	3 days	<ul style="list-style-type: none"> (1) 16-inch diameter LP gas pipeline Temporary structure (dam and flume or equivalent) crossing materials, timber mats (16 feet x 11 feet) or temporary culvert ranging from 10-inches to 36-inches in diameter by 30 feet for equipment tracking, and necessary workspace for pipeline construction. 	3'	4.062	32	<ul style="list-style-type: none"> Seed & Mulch/Permanently Herbaceous Layer-Mowed Regularly 	To Be Assigned	<ol style="list-style-type: none"> 1) Temporary crossing for pipeline installation; pipeline crossing of the stream to be completed within 72 hours. 2) Temporary crossing for construction access, culvert size will be selected based on maintaining flow and will be removed from stream once pipeline construction activities are complete. 	
KLF-STREAM05 (PER)	Oxford 98 Pipeline	Kleinfelder, Inc.	1/27/2022	Right Fork Arnsd Creek	Perennial	Doddridge	39.253665	-80.811503	Temporary	Sometime Between April 1 & June 30	3 days	<ul style="list-style-type: none"> (1) 16-inch diameter LP gas pipeline Temporary structure (dam and flume or equivalent) crossing materials, Jersey barrier/plier installations for timber mat (16 feet x 20 feet) crossing of equipment, and necessary workspace for pipeline construction. 	12'	4.062	100	<ul style="list-style-type: none"> Seed & Mulch/Permanently Herbaceous Layer-Mowed Regularly 	To Be Assigned	<ol style="list-style-type: none"> 1) Temporary crossing for pipeline installation; pipeline crossing of the stream to be completed within 72 hours. 2) Temporary installation of jersey barriers and/or pliers will be placed so as not to impede or prevent fish movement upstream or downstream and will be removed from stream once pipeline construction activities are complete. 	

Matthew Albright

From: Dickson, Nancy J <nancy.j.dickson@wv.gov>
Sent: Monday, February 7, 2022 2:10 PM
To: dbulian@anteroresources.com; Matthew Albright
Subject: Oxford 98 Pipeline PCN

External Email

Mr. Bulian,

The West Virginia Department of Environmental Protection-Division of Water and Waste Management has received the pre-construction notification for the following project:

Company: Antero Midstream

Project: Oxford 98 Pipeline

County: Doddridge

This fulfills the requirement of Standard Condition 1 for prior written notification for these nationwide permits. All other applicable standard conditions for nationwide permits remain in force until the project is complete.

Feel free to contact me should you have any additional questions or concerns.

Thank you,

--

Nancy J. Dickson

Environmental Resources Specialist 3

West Virginia Department of Environmental Protection

Division of Water and Waste Management

401 Certification Program

601 57th Street, SE

Charleston, WV 25304

Office: (304) 414-3834

Cell: (304) 541-4268

Email: nancy.j.dickson@wv.gov



TRANSMITTAL

To:

Mr. George Eidel
Floodplain Manager
101 Church Street, Suite #102
West Union, WV 26456-2095

Date: February 8, 2022

FEB 9 22 12:47PM

cc: Project File

Subject:	Floodplain Permit Application Antero Midstream Oxford 98 Pipeline Doddridge County, West Virginia
<input checked="" type="checkbox"/> Attached <input type="checkbox"/> Under separate cover	

Via:

- Messenger/Courier
- First Class Mail
- FedEx
- United Parcel
- DHL
- Lone Star Overnight
- Freight
- Other

Transmitted:

- As Requested
- For Approval
- For Your Use
- For Review & Comment

Remarks:

Enclosed please find the following documents to facilitate your review of the above referenced application:

- Attachment A – Floodplain Application
- Attachment B – Table of Adjacent Property Owners
- Attachment C – WV Flood Tool Map
- Attachment D – Site Plans
- Attachment E – No-Rise Certificate
- Attachment F – Permitting & Coordination

The check for fee is \$589.00. The site budget within the Floodplain is \$94,500.00 bringing the permit fee to \$589.00.

By: **Matt Albright**
Project Manager
51 Dutilh Rd., Suite 240
Cranberry Township, PA 16066
MAlbright@Kleinfelder.com
m| 609.947.5296

STATE of WEST VIRGINIA;
COUNTY OF DODDRIDGE, TO WIT:

Doddridge County Floodplain Permits
(Week of FEBRUARY 14, 2022)

Please take notice that on the (9TH) of (FEBRUARY), 2022, (ANTERO RESOURCES) filed an application for a Floodplain Permit (#22-609) to develop land located at or about (ARNOLDS CREEK RD., RIGHT FORK); Coordinates: 39.253432,-80.811234. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (MARCH 7, 2022) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. This project is FOR A NEW OXFORD 98 PIPELINE PROJECT
George C. Eidel, CFM
Doddridge County Floodplain Manager

2/16x2XB

I, Tamela B. Beamer, Editor of THE HERALD RECORD, a certified weekly newspaper published regularly in Doddridge County, West Virginia, DO Hereby Certify Upon Oath that the accompanying Legal Notice entitled:

Floodplain Permit Application

42-#609

was published in said paper for 2 successive weeks beginning with the issue of 2/16, 2022 and ending with the issue of 2/23, 2022 that contains 184 word space at .115 cents per word and amounts to the sum of \$ 21.26 FOR THE FIRST PUBLICATION.

SECOND PUBLICATION IS 75% OF THE FIRST PUBLICATION and each other publication thereafter \$ 15.87 for the TOTAL OF: \$ 37.05.

Editor,

Tamela B. Beamer

SWORN TO AND SUBSCRIBED BEFORE ME THIS
THE 23rd day of February,
2022

NOTARY PUBLIC

Natalie Cronin

