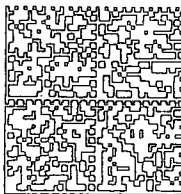


CERTIFIED MAIL™

Doddridge County FPM  
118 East Street STE 102  
West Union, WV 26456-1262



7013 2250 0001 6914 9367



HASLER	015H14161808	US POSTAGE
	\$6.48	
	09/24/14	
Mailed From 26456		

2014 OCT -6 AM 11:10

BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

*Delivered*

*noticed*

*9/26/14*



#14-273  
Edward, Delane, Clyde McMillan (Est)  
1063 Ellsworth Dr  
Akron, OH 4

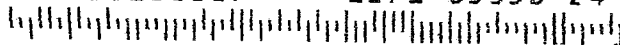
*10.2*

NIXIE 441 E2 1700 0110/03/14

RETURN TO SENDER  
NOT DELIVERABLE AS ADDRESSED  
UNABLE TO FORWARD

443128436012627

BC: 26456126227 \*1271-03930-24-44



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-73  
Edward, Delane, Clyde McMillan (Est)  
1055 Ellsworth Dr.  
Akron, OH 44313

2. Article Number  
(Transfer from service label)

7013 2250 0001 6914 9367

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

Service Type

Certified Mail®

Priority Mail Express™

Registered

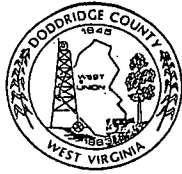
Return Receipt for Merchandise

Insured Mail

Collect on Delivery

4. Restricted Delivery? (Extra Fee)

Yes



Doddridge County FPM  
118 East Court Street, Suite 102  
West Union, WV 26456

Dear Sir or Ma'am,

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development project identified by the following page.

No action is required of you. This letter is simply to inform you of the proposed development.

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

Edwin L. Wriston  
Doddridge County Floodplain Manager  
304.873.2631  
[doddridgecountyfpm@gmail.com](mailto:doddridgecountyfpm@gmail.com)

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 3<sup>rd</sup> day of September, 2014

Antero Resources

filed an application for a Floodplain Permit to develop land located at or about:

Grant District

39.350054N/80.701704W

Permit #14-273 Canton-East Pipeline Access Road

The Application is on file with the Clerk of the County Court and may be inspected  
or copied during regular business hours.

Any interested persons who desire to  
comment shall present the same in writing by **October 6, 2014**, delivered to:

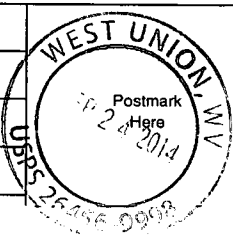
Clerk of the County Court

118 E. Court Street, West Union, WV 26456

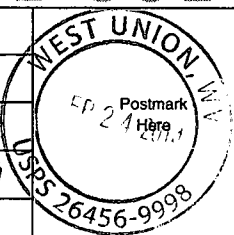
Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston, Doddridge County Flood Plain Manager

7013 2250 0001 6914 9367

U.S. Postal Service™ <b>CERTIFIED MAIL™ RECEIPT</b> <i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Postage	\$ .49
Certified Fee	2.70
Return Receipt Fee (Endorsement Required)	3.30
Restricted Delivery Fee (Endorsement Required)	6.49
	
#14-273 Edward, Delane, Clyde McMillan (Est) 1063 Ellsworth Dr. Akron, OH 44313	

7013 2250 0001 6914 9350

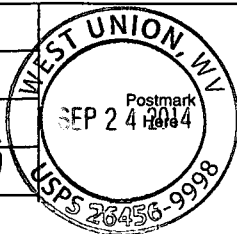
U.S. Postal Service™ <b>CERTIFIED MAIL™ RECEIPT</b> <i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Postage	\$ .49
Certified Fee	2.70
Return Receipt Fee (Endorsement Required)	3.30
Restricted Delivery Fee (Endorsement Required)	6.49
	
#14-273 Nola S. McMillan 2075 20th St SW Akron, OH 44314	
See Reverse for Instructions	

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

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

**OFFICIAL USE**

Postage \$ **.49**  
 Certified Fee **2.70**  
 Return Receipt Fee (Endorsement Required) **3.30**  
 Restricted Delivery Fee (Endorsement Required) **6.49**



#14-273  
 Gary L & Jeffrey Lynn McMillan  
 RT 2 Box 315  
 West Union, WV 26456

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

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

**OFFICIAL USE**

Postage \$ **.49**  
 Certified Fee **2.70**  
 Return Receipt Fee (Endorsement Required) **3.30**  
 Restricted Delivery Fee (Endorsement Required) **6.49**



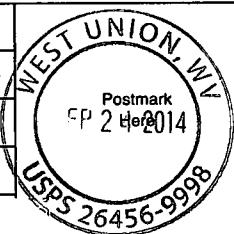
#14-273  
 Ethlyn McMillan  
 39 Etna Lane  
 Weirton, WV 26062

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

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

**OFFICIAL USE**

Postage \$ **.49**  
 Certified Fee **2.70**  
 Return Receipt Fee (Endorsement Required) **3.30**  
 Restricted Delivery Fee (Endorsement Required) **6.49**



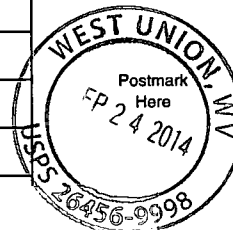
#14-273  
 Mary J. Sweeney  
 HC 67 Box 60  
 West Union, WV 26456

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
 (Domestic Mail Only; No Insurance Coverage Provided)

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

**OFFICIAL USE**

Postage \$ **.49**  
 Certified Fee **2.70**  
 Return Receipt Fee (Endorsement Required) **3.30**  
 Restricted Delivery Fee (Endorsement Required) **6.49**



#14-273  
 Scotty W & Martha Diane Ruble  
 1622 Oak St  
 Parkersburg, WV 26101

**SENDER - COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-273  
 Nola S. McMillan  
 2075 20th St SW  
 Akron, OH 44314

2014 SEP 29 AM  
 BET A. RODGERS  
 POLICE CLERK  
 DODD RIDGE COUNTY, WV

**ADDRESSEE - COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
*Gregory V. Murphy*  Agent  Addressee  
 B. Received by (Printed Name) *Gregory V. Murphy*  
 C. Date of Delivery  
 D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type  
 Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number  
 (Transfer from service label)

7013 2250 0001 6914 9350

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-273

Gary L &amp; Jeffrey Lynn McMillan

RT 2 Box 315

West Union, WV 26456

2. Article Number

*(Transfer from service label)*

7013 2250 0001 6914 9343

PS Form 3811, July 2013

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Gary L. McMillan*  Agent  Addressee

B. Received by (Printed Name)

*GARY L. McMillan*

C. Date of Delivery

*9-25-10*

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

3. Service Type:

- Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

Domestic Return Receipt

UNITED STATES POSTAL SERVICE

CHARLESTON  
WV 250

25 SEP '14

PM 11



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

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

FILED

2014 SEP 26 AM 11:07

Dodderidge County FPM  
18 East Court St STE 102  
West Union, WV 26456-1262



CLERK  
DODDERIDGE COUNTY  
WV

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-273  
Ethlyn McMillan  
39 Etna Lane  
Weirton, WV 26062

2. Article Number  
(Transfer from service label)

7013 2250 0001 6914 9336

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Audie L. Meyer*

- Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

7-26-K

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

3. Service Type

- Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

2014 SEP 29

BETH A. ROGERS  
COUNTY CLERK  
DODD BRIDGE COUNTY, WV



UNITED STATES POSTAL SERVICE

PA 150

26 SEP 14

DN 51



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

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



#14-

Doddridge County FPM

118 East Court St STE 102

West Union, WV 26456-1262

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-273  
 Scotty W & Martha Diane Ruble  
 1622 Oak St  
 Parkersburg, WV 26101

2. Article Number

*(Transfer from service label)*

7013 2250 0001 6914 9374

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

Diane Ruble

 Agent AddresseeB. Received by *(Printed Name)*

Diane Ruble

C. Date of Delivery

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

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery4. Restricted Delivery? *(Extra Fee)* Yes

UNITED STATES POSTAL SERVICE



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

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

FILE

2011 SEE 26 AM 01:08

BETHA COUNTY  
ODDORIDGE COUNTY WV



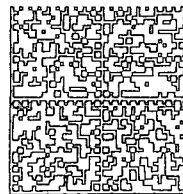
14-  
Oddridge County FPM  
18 East Court St STE 102  
West Union, WV 26456-1262

**CERTIFIED MAIL™**

Doddridge County FPM  
118 East Street STE 102  
West Union, WV 26456-1262



7013 2250 0001 6914 9381



HASLER	015H14161808	US POSTAGE
	\$6.48	
	09/24/14	
Mailed From 26456		

70 SEP 29 AM 11:49

BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

*Ja*

*needs  
all address*



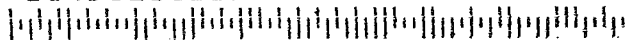
#14-273  
Mary J, Sweeney  
HC 67 Box 60  
West Union, WV 264

NIXIE 250 00 1700 2209/28/14

RETURN TO SENDER  
INSUFFICIENT ADDRESS  
UNABLE TO FORWARD

BC: 26456126227 \*1271-03932-24-44

2645629319 @4367



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS AND AT DOTTED LINE

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-273  
 Mary J, Sweeney  
 HC 67 Box 60  
 West Union, WV 26456

2. Article Number  
(Transfer from service label)

7013 2250 0001 6914 9381

**COMPLETE THIS SECTION ON DELIVERY**

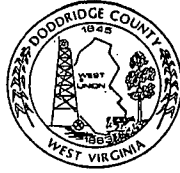
A. Signature  Agent  
 Addressee  
**X**

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type  
 Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes



Doddridge County FPM  
118 East Court Street, Suite 102  
West Union, WV 26456

Dear Sir or Ma'am,

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development project identified by the following page.

No action is required of you. This letter is simply to inform you of the proposed development.

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

Edwin L. Wriston  
Doddridge County Floodplain Manager  
304.873.2631  
[doddridgecountyfpm@gmail.com](mailto:doddridgecountyfpm@gmail.com)

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 3<sup>rd</sup> day of September, 2014

**Antero Resources**

filed an application for a Floodplain Permit to develop land located at or about:

**Grant District**

**39.350054N/80.701704W**

**Permit #14-273 Canton-East Pipeline Access Road**

The Application is on file with the Clerk of the County Court and may be inspected  
or copied during regular business hours.

Any interested persons who desire to  
comment shall present the same in writing by **October 6, 2014**, delivered to:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager



# 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: #14-273 EXTENSION

### Canton East Pipeline Access Road Repair

**Date Approved: 08/30/2016**

**Expires: 11/28/2016**

**Issued to: Antero Resources**

**POC: Rachel Grzybek**  
**304-842-4008**

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

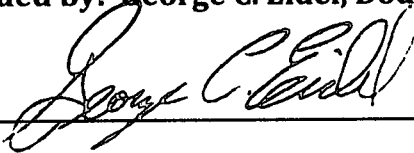
**Project Address: Grant District**

**Firm:**

**Lat/Long: 39.350054N/80.701704W**

**Purpose of development: Repair Slip**

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



---

**Date: August 30, 2016**

---

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

---



# 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: # 14-273**

West Union

**Date Approved: 09/14/2015**



**Expires: 09/14/2016**

Issued to: Antero Resources  
Catobn East Pipeline Access Rd  
Company Address: 535 White Oaks Blvd  
Bridgeport WV 26330

POC: Rachel Grzybek  
304-842-4008

Project Address: Grant District

Firm:

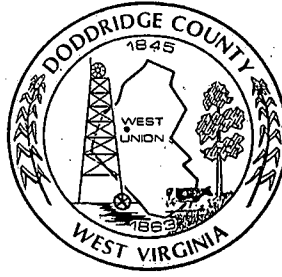
Lat/Long: 39.350054N /80.701704W

Purpose of development: Pipeline access road construction

Issued by: George C Eidel, Doddridge County FPM (or designee)

Date: 09/14/2015

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



# Commercial/Industrial Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit has been issued to **Antero Resources**, and is for the approved commercial and/or industrial development project associated with this permit 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: #14-273 ~ Antero Resources ~  
Canton East Pipeline Access Road**

**Date Approved: 06/12/2015**

**Expires: 06/12/2015** <sup>2016</sup>

**Issued to: Antero Resources**

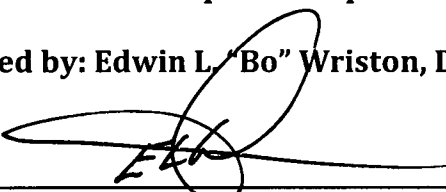
**POC: Rachel Grzybek  
304-842-4008**

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

**Project Address: Grant District  
Lat/Long: 39.350054N/80.701704W**

**Purpose of development: Pipeline access road construction.**

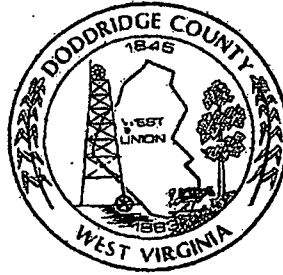
**Issued by: Edwin L. "Bo" Wriston, Doddridge County FPM (or designee)**

  
\_\_\_\_\_  
**Date: 06/12/2015**

---

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

---



# Commercial/Industrial Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit has been issued to **Antero Resources**, and is for the approved commercial and/or industrial development project associated with this permit 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: #14-273 ~ Antero Resources ~  
Canton East Pipeline Access Road**

**Date Approved: 06/12/2015**

**Expires: 06/12/2015**

**Issued to: Antero Resources**

**POC: Rachel Grzybek  
304-842-4008**

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

**Project Address: Grant District  
Lat/Long: 39.350054N/80.701704W**

**Purpose of development: Pipeline access road construction.**

**Issued by: Edwin L. "Be" Wriston, Doddridge County FPM (or designee)**

**Date: 06/12/2015**

---

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

---



ANTERO MIDSTREAM  
1615 WYNKOOP STREET  
DENVER, COLORADO 80202

Vendor Name	Vendor No.	Date	Check Number	Check Total
DODDRIDGE COUNTY COMMISSION	43312	Oct-19-2015	101510	\$500.00

INV #	INV DATE	DESCRIPTION	AMOUNT	DISCOUNTS	NET AMOUNT
kad4232015ce	04/23/15	Canton East Access Road Floodplain	500.00	0.00	500.00

#14-273  
Canton East Pipeline  
Access Rd.

TOTAL INVOICES PAID =====> 500.00 0.00 500.00

DETACH AND RETAIN FOR TAX PURPOSES

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



ANTERO MIDSTREAM  
1615 WYNKOOP STREET  
DENVER, COLORADO 80202

Wells Fargo  
Denver, CO

Check No. 101510

11-24  
412

800 - AP ACCT WELLS FARGO

PAY EXACTLY **500dols00cts**  
Five Hundred Dollars and Zero Cents

CHECK NUMBER	DATE	PAY EXACTLY
101510	Oct-19-2015	\$500.00

TO  
THE  
ORDER  
OF

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

*[Handwritten Signature]*

⑈ 101510⑈ ⑆041203824⑆ 9657481710⑈



Vendor Name	Vendor No.	Date	Check Number	Check Total
DODDRIDGE COUNTY COMMISSION	43312	Oct-19-2015	101510	\$500.00

INV #	INV DATE	DESCRIPTION	AMOUNT	DISCOUNTS	NET AMOUNT
kad4232015ce	04/23/15	Canton East Access Road Floodplain	500.00	0.00	500.00

#14-273  
Canton East Pipeline  
Access Rd.

TOTAL INVOICES PAID ==> 500.00 0.00 500.00

DETACH AND RETAIN FOR TAX PURPOSES

### Doddridge County, West Virginia

RECEIPT NO: 5672

DATE: 2015/10/23

FROM: ANTERO

AMOUNT: \$ 500.00

FIVE HUNDRED DOLLARS AND 00 CENTS

FOR: #14-273 CANTON EAST PIPELINE ACCESS ROAD

00000101510 FP-BUILDING PERMITS

020-318

TOTAL: \$500.00

MICHAEL HEADLEY  
SHERIFF & TREASURER

MEC  
CLERK

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 3<sup>rd</sup> day of September, 2014

**Antero Resources**

filed an application for a Floodplain Permit to develop land located at or about:

**Grant District**

**39.350054N/80.701704W**

**Permit #14-273 Canton-East Pipeline Access Road**

The Application is on file with the Clerk of the County Court and may be inspected  
or copied during regular business hours.

Any interested persons who desire to  
comment shall present the same in writing by **October 6, 2014**, delivered to:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager

#14-273

FILED

2014 SEP -3 PM 12: 37

ESTHER ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV



Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202  
Office 303.357.7310  
Fax 303.357.7315

August 29, 2014

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

Mr. Wriston:

Antero Resources Appalachian Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our Canton-East Pipeline Access Road. Our project is located in Doddridge County, Grant District and per FIRM map #54017C0130C, and #54017C0135C this location is within the floodplain. However following the road construction, the limits of disturbance will be restored to original pre-construction contours and there will be no change to the BFE.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- Engineer's Cover Letter
- FIRM Map
- WV Flood Tool Map
- Surface Owner Information

If you have any questions please feel free to contact me at (303) 357-7232.

Thank you in advance for your consideration.

Sincerely,

Emily Kijowski  
Permit Representative  
Antero Resources Appalachian Corporation

Enclosures



Kleinfelder, Inc.  
230 Executive Drive, Suite 122  
Cranberry Township, PA 16066

August 26, 2014

Mr. Bo Wriston  
Floodplain Coordinator  
Doddridge County Commission  
118 East Court Street  
West Union, WV 26456

Re: Doddridge County Floodplain Development Permit Application  
Canton East Pipeline Project – Access Road  
Doddridge County, West Virginia  
Antero Midstream LLC

Dear Mr. Wriston:

Kleinfelder, Inc. (Kleinfelder) on behalf of Antero Midstream LLC (Antero), formerly Antero Resources Corporation, is facilitating environmental consultations for the Canton East Pipeline Project. On July 28, 2013, Floodplain Development Permit Numbers 13-045 and 13-053 were issued for the installation of the 4.61-mile long Canton East Pipeline located in Doddridge County, West Virginia. The western terminus of the pipeline (39.349230, -80.706605) ties into the Canton Pipeline. The eastern terminus of the pipeline (39.334726, -80.638711) ties into the Mark West Pike Fork.

Since the issuance of the Floodplain Development Permits, the project Area of Interest (AOI) was expanded to include an existing access road that connects the pipeline to County Route 3. This expanded AOI was delineated by AllStar Ecology, LLC (AllStar) on April 4, 2014 and by Kleinfelder on August 19, 2014. During the site reviews, an additional reach of Flint Run and one (1) additional stream (Neds Run) were identified within the expanded AOI. A low water crossing of Flint Run exists along the access road (39.350054, -80.701704), which will require improvements via the installation of an Articulated Concrete Block (ACB) crossing. As a result, sections of the proposed project will cross a designated Federal Emergency Management Administration regulated flood zone within Doddridge County according to FIRM Map #54017C0130C & #54017C0135C.

Directions to the Site: From Smithburg, WV: Head southwest on Smithbury Street toward Smithton Road. Take the 1<sup>st</sup> right onto Smithton Road for 1.9 miles. Turn right onto CR 5/Rock Run Road for 5.3 miles. Turn right onto Big Flint Road. Access road entrance will be 0.5 miles on the right.

### **Low Water Crossing**

#### **(Access Road Construction in Flint Run Floodplain)**

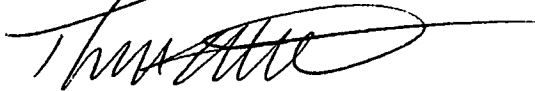
Flint Run will be crossed using ACB technology. The main objective of any water body crossing is to cross in a manner that minimizes erosion and subsequent sedimentation into the water body. Starting on the north side of Flint Run, ACB mats will be delivered to the edge of the stream, using the existing gravel road, and kept on the truck bed. Stream diverting techniques (approved by the U.S. Army Corps. of Engineers) will be utilized on the north bank to gain dry access to the stream bed for subgrade preparation. The subgrade will need to be established six inches below original pre-construction grades so the added in subgrade stone and ACB matting will be graded back to be equal to the original pre-



construction elevation. Following the complete ACB matting installation, the limits of disturbance will be restored to original pre-construction contours. There will be no increase in elevation and no change to the base flood elevation. The current base flood elevation at the proposed stream crossing is a maximum of approximately 813.66 feet.

We appreciate your timely review of these materials. Please contact me at (724) 831-5129 with any questions or concerns.

Respectfully submitted,  
Kleinfelder, Inc.



Thomas Woodrow, PE  
Senior Project Manager

Attachments



# DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

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

APPLICANT'S SIGNATURE



DATE August 29, 2014

## SECTION 2: PROPOSE DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

**IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.**

**APPLICANT'S NAME:** Antero Midstream LLC - Randy Kloberdanz,

**ADDRESS:** 1615 Wynkoop Street, Denver, CO 80202

**TELEPHONE NUMBER:** Contact Emily Kijowski: (303)-357-7232

**BUILDER'S NAME:** Antero Midstream LLC  
**ADDRESS:** 1615 Wynkoop Strett, Denver, CO 80202  
**TELEPHONE NUMBER:** (303)-357-7310

**ENGINEER'S NAME:** Kleinfelder  
**ADDRESS:** 230 Executive Drive, Suite 122, Cranberry Township, PA 16066  
**TELEPHONE NUMBER:** (304)-624-4108

**PROJECT LOCATION:**

**NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** Please see Property Owner Table

**ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** Please see Property Owner Table

**DISTRICT:** \_\_\_\_\_

**DATE/FROM WHOM PROPERTY**

**PURCHASED:** \_\_\_\_\_

**LAND BOOK DESCRIPTION:** Please see Property Owner Table

**DEED BOOK REFERENCE:** Please see Property Owner Table

**TAX MAP REFERENCE:** Please see Property Owner Table

**EXISTING BUILDINGS/USES OF PROPERTY:** None

**NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY** Please see Property Owner Table

**ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY** \_\_\_\_\_

To avoid delay in processing the application, please provide enough information to easily identify the project location.

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

**A. STRUCTURAL DEVELOPMENT**

**ACTIVITY**

**STRUCTURAL TYPE**

- |                                     |                         |                          |                                  |
|-------------------------------------|-------------------------|--------------------------|----------------------------------|
| <input checked="" 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 Altercation (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)
- 

**C. STANDARD SITE PLAN OR SKETCH**

1. SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED.
2. IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:  
SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.
3. SIGN AND DATE THE SKETCH.

**ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT IRRESPECTIVE OF WHETHER ALL OR ANY PART OF THE SUBJECT PROPOSED CONSTRUCTION PROJECT IS WITHIN THE FLOODPLAIN \$13,210.00**

**D. ADJACENT AND/OR AFFECTED LANDOWNERS:**

**1. NAME AND ADDRESS OF ALL OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA OF THE SURFACE TRACT (UP & DOWN STREAM) UPON WHICH THE PROPOSED ACTIVITY WILL OCCUR AND ALL OTHER SURFACE OWNERS UP & DOWN STREAM) WHO OWN PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN COMPLETED).**

**NAME:** Please see Property Owner Table

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

**NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

**NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

**NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

**1. NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON ANY ADJACENT PROPERTY AT THE TIME THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY.**

**NAME:** Please see Property Owner Table

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

**NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

**NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

**NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

**E. CONFIRMATION FORM**

**THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:**

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.

**Property Owner Table - Doddridge County  
Antero Midstream LLC - Canton East Pipeline**

Property Owner Name	Mailing Address	Parcel ID	Deed Book Reference	Land Book Description
<b>HOST PROPERTIES (INSIDE FLOODPLAIN)</b>				
Ethlyn McMillan	39 Etna Lane, Weirton, WV 26062	3-6-26.9	254/160	22.25 AC
McMillan Edward Delane	1063 Ellsworth Dr. Akron, OH 44313	3-9-2.1	263/290	19 Ac Flint Run, Lot 4
<b>PROPERTY OWNERS ABUTTING HOST PROPERTIES (INSIDE FLOODPLAIN)</b>				
Scotty W. & Martha Diane Ruble	1622 Oak St., Parkersburg, WV 26101	3-9-2	2545/97	30.04 AC
Nola S. McMillan	2075 20th Street SW, Akron, OH 44314	3-6-26.4	274/282	14.61 AC
Gary L. & Jeffrey Lynn McMillan	RT 2 Box 315, West Union, WV 26456	3-6-26.1	254/104	19.61 AC
Clyde McMillan EST.	1063 Ellsworth Dr. Akron, OH 44313	3-6-26	WB38/317	4.23 AC
<b>PROPERTY OWNERS ABUTTING HOST PROPERTIES (OUTSIDE FLOODPLAIN)</b>				
Mary J. Sweeney	HC 67 Box 60, West Union, WV 26456	3-9-1.1, 3-9-1.2	AP16/482, 183/581	1/10 in 78 AC, 20.19 AC

**Note:** Shaded property owners as shown above are located directly upstream and downstream of the host property where the proposed access road crosses the floodplain.

- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.
- (E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): \_\_\_\_\_

SIGNATURE:  \_\_\_\_\_ DATE: August 29, 2014

After completing SECTION 2, APPLICANT should submit form to Floodplain Administrator/Manager or his/her representative for review.

**SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)**

**THE PROPOSED DEVELOPMENT:**

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: \_\_\_\_\_

Dated: \_\_\_\_\_

Is **NOT** located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and **NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED**).

Is located in Special Flood Hazard Area.  
 FIRM zone designation \_\_\_\_\_  
 100-Year flood elevation is: \_\_\_\_\_ NGVD (MSL)

Unavailable

The proposed development is located in a floodway.  
 BFBM Panel No. \_\_\_\_\_ Dated \_\_\_\_\_

See section 4 for additional instructions.

SIGNED \_\_\_\_\_

DATE \_\_\_\_\_

**SECTION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by  
Floodplain Administrator/Manager or his/her representative)**

The applicant must submit the documents checked below before the application can be processed.

- A plan showing the location of all existing structures, water bodies, adjacent roads, lot dimensions and proposed development.
- Development plans, drawn to scale, and specifications, including where applicable: details for anchoring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawl space), types of water resistant materials used below the first floor, details of flood proffing of utilities located below the first floor and details of enclosures below the first floor. Also \_\_\_\_\_  
\_\_\_\_\_
- Subdivision or other development plans (If the subdivision or development exceeds 50 lots or 5 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).
- Plans showing the extent of watercourse relocation and/or landform alterations.
- Top of new fill elevation \_\_\_\_\_ Ft. NGVD (MSL).  
For floodproofing structures applicant must attach certification from registered engineer or architect.
- Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.
- Manufactured homes located in a floodplain area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).



Other:

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**SECTION 5: PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or his/her representative)**

I have determined that the proposed activity **(type is or is not)** in conformance with provisions of the Floodplain Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The permit is issued subject to the conditions attached to and made part of this permit.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

If the Floodplain Administrator/Manager found that the above was not in conformance with the provisions of the Doddridge County Floodplain Ordinance and/or denied that application, the applicant may complete an appealing process below.

APPEALS: Appealed to the County Commission of Doddridge County?  Yes  No

Hearing Date: \_\_\_\_\_

County Commission Decision - Approved  Yes  No

CONDITIONS: \_\_\_\_\_

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**SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is issued).**

The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

COMPLETE 1 OR 2 BELOW:

- 1 Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is \_\_\_\_\_ FT. NGVD (MSL)
- 2 Actual (As Built) elevation of floodproofing is \_\_\_\_\_ FT. NGVD (MSL)

**Note: Any work performed prior to submittal of the above information is at risk of the applicant.**

**SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).**

The Floodplain Administrator/Manager or his/her representative will complete this section as applicable based on inspection of the project to ensure compliance with the Doddridge County Floodplain Ordinance.

**INSPECTIONS:**

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
DEFICIENCIES ?      Y/N

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain Administrator/Manager or his/her representative).**

Certificate of Compliance issued: DATE: \_\_\_\_\_ BY: \_\_\_\_\_

**CERTIFICATE OF COMPLIANCE  
FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA  
(OWNER MUST RETAIN)**

**PERMIT NUMBER:** \_\_\_\_\_

**PERMIT DATE:** \_\_\_\_\_

**PURPOSE –**

**CONSTRUCTION LOCATION:** \_\_\_\_\_

**OWNER'S ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN  
ADMINISTRATOR/MANAGER OR HIS/HER AGENT.**

**COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE  
FLOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF  
DODDRIDGE COUNTY ON MAY 21, 2013.**

**SIGNED** \_\_\_\_\_ **DATE** \_\_\_\_\_

# WV Flood Map

Canton-East Pipeline  
Road Improvement



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

Map Created on 8/28/2014



Location of the mouse click



**Flood Hazard Zone**  
(1% annual chance floodplain)

User Notes:

#### Disclaimer:

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

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

**Flood Hazard Area:**

**Elevation:** N/A

**Location (long, lat):**

**Location (UTM 17N):**

**FEMA Issued Flood Map:**

**Contacts:**

**CRS Information:**

**Parcel Number:**



DEPARTMENT OF THE ARMY  
HUNTINGTON DISTRICT, CORPS OF ENGINEERS  
602 EIGHTH STREET  
HUNTINGTON, WEST VIRGINIA 25701-2070

REPLY TO  
ATTENTION OF

MAY 04 2015

Regulatory Division  
Energy Resource Branch  
LRH-2013-00669-OHR-Flint Run

Mr. Brett Fletcher  
Antero Resources Corporation  
1615 Wynkoop Street  
Denver, CO 80202

Dear Mr. Fletcher:

I refer to a request concerning a modification to your original Nationwide Permit (NWP) 12 verification (LRH-2013-00339-OHR) dated August 15, 2013 regarding the proposed Flint Run Crossing for the Canton East Pipeline Project. Under the August 15, 2013 NWP 12 verification, you were authorized to temporarily discharge dredged and/or fill material into 110.5 linear feet (lf) of stream, at seven (7) single and complete crossings, in association with the Canton East Gathering Pipeline Project. The project is located near Flint, in Doddridge County, West Virginia (39.3504499°N, 80.701522°W). Flint Run is an indirect tributary of Middle Island Creek, a traditional navigable water of the United States.

The United States Army Corps of Engineers (Corps) authority to regulate waters of the United States is based, in part, on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act requires a Department of the Army (DA) permit be obtained prior to the discharge of dredged or fill material into waters of the United States, including wetlands. Section 10 of the Rivers and Harbors Act of 1899 requires a Department of the Army permit be obtained for any work in, on, over or under a navigable water.

Based on a review of the aquatic resources in the NWP 12 verification modification request, we have determined one (1) stream (Flint Run), totaling 41 lf, is located within the LOD and the PJD boundary, as described in the enclosed PJD form. This on-site aquatic resource may be a water of the United States in accordance with the Regulatory Guidance Letter No. 08-02. As indicated in the guidance, this PJD is non-binding and cannot be appealed (33 CFR 331.2) and only provides a written indication that water of the United States may be present on-site.

You have declined to exercise the option to obtain an approved JD in this instance and at this time. However, for the purposes of the determination of impacts, compensatory mitigation, and other resource protection measures for activities that require authorization from this office, the stream referenced above will be evaluated as if is a water of the United States.

Enclosed please find two (2) copies of the PJD form. If you agree with the findings of this PJD and understand your options regarding the same, please sign and date one copy of the

PJD form and return it to this office within 30 days of receipt of this letter. You should submit the signed copy via email to [Audrey.M.Richter@usace.army.mil](mailto:Audrey.M.Richter@usace.army.mil) or to the following address:

United States Army Corps of Engineers  
Huntington District, Regulatory Division  
Attn: Audrey Richter (LRH-2013-00669)  
502 Eighth Street  
Huntington, West Virginia 25701

As indicated in the information submitted to this office, you have requested the Corps modify your previously verified NWP 12 authorization to reflect the revisions to facilitate the construction of your proposed linear transportation project referred to as the Flint Run Crossing-Canton East Pipeline Project. The revised project design will include the discharge of dredged and/or fill material into 41 lf (0.026 acre) of Flint Run in order to construct a permanent forded stream crossing to be used during periods of low flow. The stream crossing will include the use of articulated concrete block matting that will be embedded within the stream channel in order to construct a permanent forded stream crossing. As indicated in the submitted information, the stream crossing will be designed and constructed in a manner to maintain low flows and sustain the movement of aquatic species.

We have determined the additional discharge of dredged and/or fill material into Flint Run meets the criteria for authorization under NWP 12 (enclosed) described in the February 21, 2012 Federal Register, Notice of Reissuance of NWPs (77 FR 10184) provided you comply with all terms and conditions of the enclosed material and the special conditions made a part of your March 12, 2014 NWP 12 verification.

In view of the above, your proposed activities are authorized subject to the terms and conditions of the enclosed material. It is your responsibility to ensure that your work conforms to all of the environmental management conditions listed within the enclosed material. Please be aware this NWP authorization does not obviate the requirement to obtain other Federal, state or local authorizations required by law.

This verification is valid until the expiration date of the NWPs, unless the NWP authorization is modified, suspended, or revoked. The verification will remain valid if the NWP authorization is reissued without modification or the activity complies with any subsequent modification of the NWP authorization. All of the existing NWPs are scheduled to be modified, reissued, or revoked on March 18, 2017. Prior to this date, it is not necessary to contact this office for re-verification of your project unless the plans for the proposed activity are modified. Furthermore, if you commence or under contract to commence this activity before March 18, 2017, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

A copy of this NWP verification modification and the original August 13, 2013 NWP 12 verification must be supplied to your project engineer responsible for construction activities and kept at the site during construction. Upon completion of the work associated with the project, the enclosed certification must be signed and returned to this office. If you have any questions

concerning the above, please contact Ms. Audrey Richter of the Energy Resource Branch at 304-399-5257 or [Audrey.M.Richter@usace.army.mil](mailto:Audrey.M.Richter@usace.army.mil).

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Hatten". The signature is fluid and cursive, with a long horizontal stroke at the end.

Michael Hatten

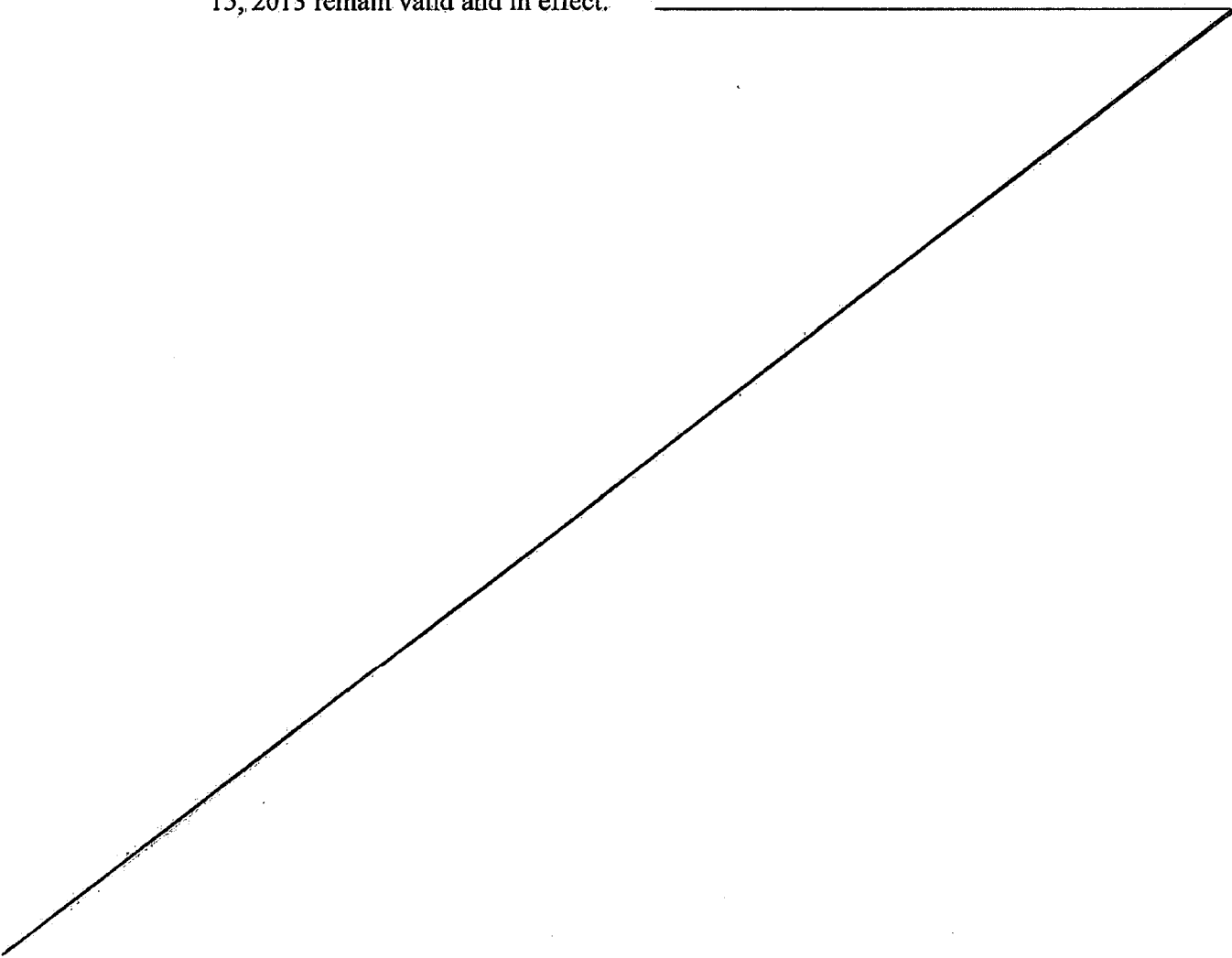
Chief, Energy Resource Branch

Enclosures

CF (w/o enclosures; via email)

Mr. Troy Roach  
Antero Resources Corporation  
1615 Wynkoop Street  
Denver, CO 80202  
[troach@anteroresources.com](mailto:troach@anteroresources.com)

**Nationwide Permit 12 Verification Modification Special Conditions  
Antero Midstream, LLC  
Flint Run Stream Crossing-Canton East Pipeline Project.  
LRH-2013-00669-OHR- Flint Run**

1. Should new information regarding the scope and/or impacts of the project become available that was not submitted to this office during our review of the proposal, the permittee shall submit written information concerning proposed modification(s) to this office for review and evaluation, as soon as practicable.
  2. Section 7 obligations under Endangered Species Act must be reconsidered if new information reveals impacts of the project that may affect federally listed species or critical habitat in a manner not previously considered, the proposed project is subsequently modified to include activities which were not considered during Section 7 consultation with the United States Fish and Wildlife Service, or new species are listed or critical habitat designated that might be affected by the subject project
  3. Upon completion of the activity authorized by this nationwide permit verification, the enclosed certification must be signed and returned to this office.
  4. All terms and conditions of the original Nationwide Permit 12 Verification dated August 15, 2013 remain valid and in effect.
- 



**From:** Brady Gutta  
**To:** Rachel Grzybek  
**Subject:** FW: 2013-669 Flint Run Crossing - Canton East Pipeline (UNCLASSIFIED)  
**Date:** Wednesday, June 10, 2015 12:45:06 PM

---

-----Original Message-----

From: Brett Fletcher  
Sent: Tuesday, May 05, 2015 3:05 PM  
To: Hatten, Michael E LRH; Troy Roach  
Cc: Richter, Audrey M LRH; Brady Gutta  
Subject: RE: 2013-669 Flint Run Crossing - Canton East Pipeline (UNCLASSIFIED)

Thanks, I will get on the PM to get things ordered. I look forward to putting this one behind us. I will follow up with an "as-built" report and photos once complete. This could turn out to be a good method to use again on wet crossings. B

-----Original Message-----

From: Hatten, Michael E LRH [<mailto:Michael.E.Hatten@usace.army.mil>]  
Sent: Tuesday, May 05, 2015 11:43 AM  
To: Troy Roach; Brett Fletcher  
Cc: Richter, Audrey M LRH  
Subject: 2013-669 Flint Run Crossing - Canton East Pipeline (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Troy/Brett,  
Attached is an electronic copy of the NWP verification letter with special conditions, the original is being sent via postal mail.

Michael Hatten  
U.S. Army Corps of Engineers, Huntington District Chief, Energy Resource Branch

304-399-5210 Phone 304-399-5085 Fax  
304-399-6918 Direct 304-638-9573 Cell

Classification: UNCLASSIFIED  
Caveats: NONE

FILED

2015 OCT 21 PM 1:31



August 29, 2014

CLERK OF COURTS  
DODDRIDGE COUNTY, WV

Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202  
Office 303.357.7310  
Fax 303.357.7315

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

Mr. Wriston:

Antero Resources Appalachian Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our Canton-East Pipeline Access Road. Our project is located in Doddridge County, Grant District and per FIRM map #54017C0130C, and #54017C0135C this location is within the floodplain. However following the road construction, the limits of disturbance will be restored to original pre-construction contours and there will be no change to the BFE.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- Engineer's Cover Letter
- FIRM Map
- WV Flood Tool Map
- Surface Owner Information

If you have any questions please feel free to contact me at (303) 357-7232.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in cursive script that reads "Emily Kijowski".

Emily Kijowski  
Permit Representative  
Antero Resources Appalachian Corporation

Enclosures

STATE OF WEST VIRGINIA,  
COUNTY OF DODDRIDGE, TO WIT

I, Virginia Nicholson, Editor of THE  
HERALD RECORD, a weekly newspaper  
published regularly, in Doddridge County,  
West Virginia, Do Hereby Certify  
That the Accompanying Legal Notice  
Entitled:

*Floodplain Permit*  
*# 14-273*

was published in said paper for *2*  
successive weeks beginning with the issue  
of *September 16<sup>th</sup>* 2014 and  
ending with the issue of

*September 23<sup>rd</sup>* 2014 and

that said notice contains *189*

WORD SPACE at *115* cents a word

amounts to the sum of \$ *21.74*

FOR FIRST PUBLICATION, SECOND  
PUBLICATION IS 75% OF THE FIRST  
PUBLICATION

\$ *16.31*

and each publication thereafter

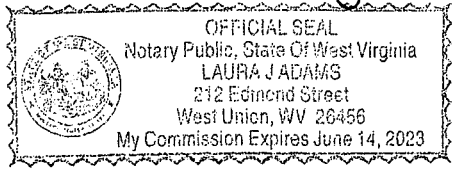
\$ *38.05* TOTAL

EDITOR  
*Virginia Nicholson*

SWORN TO AND SUBSCRIBED  
BEFORE ME THIS THE *25<sup>th</sup>* DAY  
OF *September* 2014

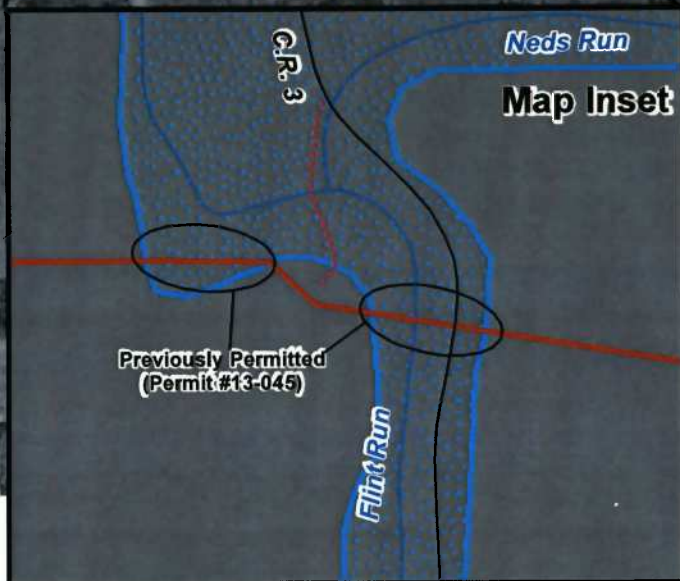
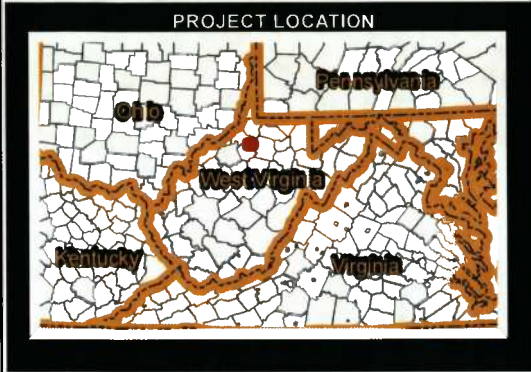
NOTARY PUBLIC  
*Laura J Adams*

LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 3rd day of September  
2014 Antero Resources filed an application for a  
Floodplain Permit to develop land located at or about  
Grant District 39.350054N/80.701704W Permit # 14-273  
Canton East Pipeline Access Road. The Application is on  
file with the Clerk of the County Court and may be  
inspected or copied during regular business hours. Any  
interested persons who desire to comment shall present  
the same in writing by October 6, 2014.  
Delivered to the:  
Clerk of the County Court  
118 E. Court Street, West Union, WV 26456  
Beth A. Rogers, Doddridge County Clerk  
Edwin L. "Bo" Wriston, Doddridge County Flood Plain  
Manager





**CANTON EAST GATHERING PIPELINE  
FEMA FIRM 54017C0130C & 54017C0135C  
ANTERO MIDSTREAM LLC**



SITE LOCATIONS - ACCESS ROAD		
NAD 83		
Northern Terminus (UTM Meters)	N=4355743.1 m	E=525712.0 m
Southern Terminus (UTM Meters)	N=4355605.3 m	E=525712.6 m
	LATITUDE	LONGITUDE
Northern Terminus	39.350748	-80.701588
Southern Terminus	39.349506	-80.701586

**GRANT DISTRICT, DODDRIDGE COUNTY, WV  
LITTLE MUSRINGUM-MIDDLE ISLAND WATERSHED**

FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	YES
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:	NO
HEC-RAS STUDY COMPLETED:	N/A
FLOODPLAIN SHOWN ON DRAWINGS:	YES
FIRM MAP NUMBER (S) FOR SITE:	54017C0130C & 54017C0135C
ACREAGE OF CONSTRUCTION IN FLOODPLAIN:	0.28

0 800 1,600 3,200  
Feet

**Legend**

- Canton East Gathering Pipeline (4.61 mi)
- Access Road (0.09 mi)
- FEMA Floodplain
- County Road

The information included on this graphic representation has been compiled from a variety of sources and is subject to change without notice. Kleinfelder makes no representation or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a land survey product nor is it designed or intended as a construction design document. The user or misuser of the information contained on this graphic representation is at the sole risk of the user.

Base Map: ESRI Online Map;  
USGS 7.5' New Milton Quadrangle



PROJECT NO.	133916
DRAWN:	8/22/2014
DRAWN BY:	A. Leonard
CHECKED BY:	N. Peace
FILE NAME:	CantonEast_FEMA_Crossing_v2.mxd

**Antero Midstream LLC**  
**Canton East Gathering Pipeline  
Doddridge County, West Virginia  
Flood Insurance Rate Map**

FIGURE

**1**





**EROSION AND SEDIMENT CONTROL PLAN NARRATIVE/CONSTRUCTION SEQUENCES**

THE EROSION AND SEDIMENT (E&S) CONTROL MEASURES FOR THE CONSTRUCTION ACTIVITIES CONSIST OF COMPOST FILTER SOCK, SILT FENCE, RIGHT-OF-WAY (ROW) DIVERSIONS, AND TEMPORARY AND PERMANENT SEEDING AND MULCHING. BMP SPECIFICATIONS FOR THE E&S CONTROL PLAN (E&SCP) AREA TO BE UTILIZED BY THE CONSTRUCTION CONTRACTOR ACCORDING TO THE PROVIDED PLAN. STRAWHAY BALES WILL NOT BE USED AS AN E&S CONTROL.

**GENERAL CONSTRUCTION SEQUENCE:**

- PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES, CLEARLY MARK ALL CLEARING LIMITS, SENSITIVE AREAS AND THEIR BUFFERS, AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA. THESE SHALL BE CLEARLY MARKED, BOTH IN THE FIELD AND ON THE PLANS, TO PREVENT DAMAGE AND OFFSITE IMPACTS.
- INSTALL STONE CONSTRUCTION ENTRANCES AT ALL LOCATIONS WHERE TEMPORARY ACCESS ROADS WILL BE ACCESSING A PAVED ROADWAY.
- INSTALL TEMPORARY E&S CONTROLS (SILT FENCE, COMPOST FILTER SOCK, ETC.) PRIOR TO ANY EXCAVATION WORK TO ENSURE, TO THE MAXIMUM EXTENT PRACTICABLE, THAT NO SIGNIFICANT EROSION OR SEDIMENTATION OCCURS.
- ROW DIVERSIONS AND/OR OTHER EROSION AND SEDIMENT CONTROL DEVICES WILL BE INSTALLED AS NEEDED. IF CLEARING AND GRUBBING IS REQUIRED, SEE BELOW REGARDING THE MANAGEMENT AND DISPOSAL OF DEBRIS.
- AFTER ACCESS TO CONSTRUCTION SITE HAS BEEN PROVIDED, THE GENERAL CLEARING AND GRUBBING OF THE BRUSH MAY COMMENCE TO THE WIDTH SPECIFIED IN THE E&S PLANS. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF SURFACE WATERS. WOODY DEBRIS MAY BE CHOPPED AND SPREAD ON-SITE.
- EXCAVATE STREAM SUBGRADE AS NECESSARY FOR ARTICULATED CONCRETE BLOCKS.
- THE PROPOSED CONSTRUCTION ROW WILL BE USED AS A WORK AREA FOR EXCAVATION, EQUIPMENT MOVEMENT, AND THE STORAGE OF SOIL STOCKPILES, AS NEEDED. EQUIPMENT SOIL STOCKPILES, AND OTHER MATERIALS AREA TO REMAIN UPSLOPE OF BMPs DURING CONSTRUCTION ACTIVITIES.
- SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED WHERE EXCAVATION TAKES PLACE IN AN AGRICULTURAL, WETLAND, OR RESIDENTIAL AREA.
- TEMPORARY E&S CONTROLS FOR STREAM CROSSINGS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE E&SCP AND ASSOCIATED DETAIL SHEETS.
- THE STREAM CROSSING CONSTRUCTION DIVERSION METHOD WILL BE INSTALLED AT THE LOCATION SHOWN ON THE E&S PLAN SHEETS AND AS SPECIFIED ON THE DETAIL SHEETS. FLINT RUN WILL BE CROSSED WITH A PERMANENT ARTICULATED CONCRETE BLOCK MATTING.
- EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BMPs THAT PROTECT THE SOIL FROM EROSION FORCES OF RAINDROPS, FLOWING WATER AND WIND. ALL DISTURBED AREAS THAT ARE AT FINAL GRADE MUST BE SEEDED AND MULCHED WITHIN SEVEN DAYS AND AREAS THAT WILL NOT BE WORKED AGAIN FOR 21 DAYS OR MORE MUST BE SEEDED AND MULCHED WITHIN SEVEN DAYS. FOR DISTURBED AREAS WITH SLOPES OF 3:1 OR GREATER, THE AREA WILL BE VERTICALLY TRACKED AND EROSION CONTROL FABRIC SHALL BE INSTALLED AFTER SEED, MULCH, AND SOIL SUPPLEMENTS HAVE BEEN APPLIED. THE TEMPORARY/PERMANENT SEEDING AND MULCH TABLE ON THE DETAIL SHEETS CONSIST OF THE TYPE OF SEED AND APPLICATION RATE THAT SHALL BE APPLIED, INCLUDING THE NURSE CROP THAT SHALL BE USED DURING CERTAIN TIME OF THE YEAR TO PROMOTE STABILIZATION OF THE SOIL UNTIL THE PERENNIAL SEEDLINGS ESTABLISH.
- IN THE UNLIKELY EVENT THAT THERE ARE EXCESS EXCAVATED MATERIALS REMAINING AFTER THE STREAM CROSSING HAS BEEN RETURNED TO EXISTING GRADE, THE MATERIAL WILL BE DISPOSED OF WITHIN THE EXISTING LOD IN AN UPLAND AREA. MATERIAL WILL BE SPREAD IN A THIN LAYER AND TIED INTO EXISTING CONTOURS TO CREATE POSITIVE DRAINAGE FOR STORMWATER RUNOFF.
- ALL E&S CONTROLS WILL BE INSPECTED, AT A MINIMUM, ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCH PER 24-HOUR PERIOD UNTIL THERE IS A UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE ESTABLISHED. TEMPORARY BMPs WILL BE REMOVED UPON ACHIEVING VEGETATIVE STABILIZATION. THE 70 PERCENT REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT A PERCENT OF THE SITE.
- NO SEDIMENT TRACKING ON THE ROADWAY IS ALLOWED. IN THE EVENT THAT SEDIMENT IS INADVERTENTLY TRACKED ONTO THE ROAD, THE ROAD SHALL BE CLEANED THOROUGHLY BY THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING OF SEDIMENTS TO THE STORM DRAIN SYSTEM IS NOT ALLOWED. IF STREET WASH WASTEWATER CAN BE CONTROLLED FROM ENTERING THE STORM DRAINAGE SYSTEM, THEN IT SHALL BE PUMPED BACK ONTO THE SITE, CONTAINED AND DISPOSED OF PROPERLY.
- CONSTRUCTION ACCESS RESTORATION SHALL BE EQUAL OR BETTER THAN THE PRE-CONSTRUCTION CONDITION AND GRADES THAT WERE ALTERED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL GRADES AND MATCH EXISTING DRAINAGE PATTERNS.
- APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY AND PERMANENT SEEDING, SODDING, MULCHING, EROSION CONTROL FABRICS AND MATTING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED, AND DUST CONTROL.
- SELECTED SOIL STABILIZATION MEASURES SHALL BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND ESTIMATED DURATION OF USE.
- SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES.
- EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.

**BMPs INSTALLATION AND REMOVAL SEQUENCE**

TEMPORARY AND PERMANENT BMPs WILL BE USED DURING CONSTRUCTION ACTIVITIES TO AVOID AND/OR MINIMIZE ADVERSE ENVIRONMENTAL EFFECTS OF CONSTRUCTION ACTIVITIES.

INSPECTIONS OF ALL E&S CONTROLS SHALL BE CONDUCTED, AT A MINIMUM, ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCH PER 24-HOUR PERIOD. ALL NECESSARY CLEANING, REPAIR AND/OR MAINTENANCE SHALL BE MADE AS SOON AS POSSIBLE AFTER THE INSPECTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT INSPECTIONS AND REPAIRS ARE MADE AS OUTLINED HEREIN. ALL SEDIMENT COLLECTED FROM THE MAINTENANCE OF E&S CONTROL MEASURES SHALL BE SPREAD ON-SITE AND SEEDED AND MULCHED, OR DISPOSED OF PROPERLY AT A WV DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP)-APPROVED LOCATION. THE FOLLOWING MAINTENANCE WILL BE PERFORMED UNTIL STABILIZATION HAS BEEN ACHIEVED:

- TEMPORARY EROSION AND SEDIMENT CONTROL BMPs SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL RESULTING FROM REMOVAL OF BMPs OR VEGETATION SHALL BE PERMANENTLY STABILIZED.
- WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPs IDENTIFIED IN THE E&SCP ARE INADEQUATE, THE E&SCP SHALL BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER.
- MAINTENANCE OF THE E&SCP - THE E&SCP SHALL BE RETAINED ON-SITE. THE E&SCP SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP. THE DEP MUST BE NOTIFIED OF ANY CHANGES TO THE CONSTRUCTION SWPP. DEPENDING ON THE SIGNIFICANCE OF THE REVISION, A PERMIT MODIFICATION MAY NEED TO BE SUBMITTED TO THE DEP.

THE FOLLOWING IS A GENERAL BMP INSTALLATION SEQUENCE THE CONSTRUCTION ACTIVITIES:

- A STONE CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC WILL BE ACCESSING A PAVED ROAD DIRECTLY FROM A DISTURBED AREA.
- TEMPORARY SEDIMENT BARRIERS, INCLUDING APPROPRIATELY SIZED SILT FENCE WILL BE PLACED DOWN SLOPE OF WORK AREAS AND AROUND SOIL STOCKPILES, AS NEEDED.
- APPROPRIATELY SIZED FENCING WILL BE PLACED AROUND WETLANDS AND WATERBODIES IN AN ADJACENT TO THE WORK AREA PRIOR TO ANY TRENCHING ACTIVITIES.
- STOCKPILE SLOPES WILL BE TWO TO ONE OR FLATTER, AND STOCKPILES WILL NOT EXCEED 35 FEET IN HEIGHT.
- TEMPORARY STREAM AND WETLAND CROSSINGS SHALL BE INSTALLED AS INDICATED ON THE E&S PLAN SHEETS AND AS PER THE E&S DETAIL SHEETS. FOR ALL OTHER SURFACE OR STORMWATER CONVEYANCES THAT ARE NOT IDENTIFIED ON THE PLAN SHEETS AS STREAMS DUE TO THE LACK OF DEFINED BED AND BANK CONDITIONS, A TEMPORARY BRIDGE SUCH AS A TIMBER MAT OR AN APPROVED EQUAL SHALL BE INSTALLED, PRIOR TO CROSSING THE CONVEYANCE IF THERE IS FLOWING WATER PRESENT AT TIME OF CONSTRUCTION IN THAT AREA.
- TEMPORARY ROW DIVERSIONS WILL BE INSTALLED IMMEDIATELY AFTER INITIAL DISTURBANCE OF THE SOIL IN ACCORDANCE WITH THE DETAILS AND SPACING SIZING REQUIREMENTS. TEMPORARY ROW DIVERSIONS WILL BE CONSTRUCTED OF SOIL TO REDUCE RUNOFF VELOCITY AND DIVERT WATER OFF THE PIPELINE ROW. TEMPORARY ROW DIVERSIONS WILL BE MAINTAINED, UNTIL PERMANENT ROW DIVERSIONS HAVE BEEN INSTALLED.
- TRENCH DEWATERING, IF NEEDED, WILL BE CONDUCTED USING A PUMP AND HOSE. WATER WILL BE RELEASED INTO A FILTER BAG THAT WILL BE LOCATED IN A WELL-VEGETATED UPLAND AREA.
- DISTURBED AREAS WILL BE RESTORED TO THEIR ORIGINAL TOPOGRAPHIC CONTOURS.
- ROW DIVERSIONS, WHEN REQUIRED, WILL BE CONSTRUCTED WITH A TWO PERCENT (TYPICAL) OUTSLOPE TO DIVERT SURFACE FLOW TO A WELL-VEGETATED STABLE AREA.
- ALL DISTURBED AREAS WILL BE GRADED IN PREPARATION FOR SEEDING AND MULCHING. THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL COVER MUST BE INITIATED NO LATER THAN SEVEN DAYS AFTER REACHING FINAL GRADE.
- FOR THREE TO ONE OR STEEPER SLOPES THE DISTURBED AREA WILL BE VERTICALLY TRACKED. EROSION CONTROL FABRIC WILL BE INSTALLED.
- TEMPORARY SEDIMENT BARRIERS WILL BE MAINTAINED, UNTIL VEGETATION HAS BECOME ESTABLISHED WITH A UNIFORM COVERAGE OF DENSITY OF 70 PERCENT OR MORE WITHIN THE DISTURBED ROW. ONCE THIS COVERAGE HAS BEEN OBTAINED, APPROPRIATE CONTROLS WILL BE REMOVED FROM THE WORK AREA. AREAS DISTURBED DURING THE REMOVAL OF THE EROSION CONTROLS WILL BE STABILIZED IMMEDIATELY. THE 70 PERCENT REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT A PERCENT OF THE SITE.
- ALL WASTE MATERIAL WILL BE TRANSPORTED OFF-SITE FOR RECYCLING AND/OR DISPOSAL. WHERE FEASIBLE, CONSTRUCTION WASTE MATERIALS WILL BE RECYCLED OR WILL BE TAKEN TO AN APPROVED FACILITY FOR DISPOSAL. AS STATED PREVIOUSLY, EXCESS SOIL MATERIAL, IF ANY, WILL BE SPREAD AND REVEGETATED WITHIN THE ROW. OFF-SITE SPOIL AND/OR BORROW SITES MUST BE OPERATED UNDER A CURRENT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.
- EROSION CONTROL BLANKETS SHALL NOT BE INSTALLED ON AGRICULTURAL AREAS EVEN IF SLOPES ARE STEEPER THAN THREE TO ONE. THESE AREAS MAY REQUIRE SPECIAL ATTENTION/RESTORATION UNTIL ADEQUATE GROWTH IS ACHIEVED.
- TEMPORARY STOCKPILES NEED SILT FENCE / SOCK PLACED ADJACENT TO ROW.

**MAINTENANCE SCHEDULE**

AFTER CONSTRUCTION IS COMPLETED, ALL BMPs WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED. UNLESS OTHERWISE SPECIFIED, ALL MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING AS REQUIRED.

- IF DURING CONSTRUCTION, CONCENTRATED FLOW AREAS FORM DUE TO A STORM EVENT AND ANY AREA BECOMES UNSTABLE, THE AREA WILL BE STABILIZED BY PLACING SIZE D60 (FOUR-INCH DIAMETER) STONE IN THE CONCENTRATED FLOW AREAS. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
- ALL E&S CONTROLS WILL BE INSPECTED, AT A MINIMUM, ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCH PER 24-HOUR PERIOD DURING THE ENTIRE PROJECT.
- SEDIMENT MUST BE REMOVED WHERE ACCUMULATION REACHES ONE-HALF THE ABOVE GROUND HEIGHT OF A SILT FENCE.
- SILT FENCE SECTIONS, WHICH HAVE BEEN UNDERMINED OR TOPPED, MUST IMMEDIATELY BE REPAIRED.
- REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
- LOGS OF SEDIMENT CONTROL INSPECTION MUST BE KEPT WITH THE INSPECTORS CONSTRUCTION RECORDS AND INCLUDE DATE, TIME, AND CONDITION OF BMPs AND ANY NECESSARY MAINTENANCE. A BMP INSPECTION REPORT IS INCLUDED IN APPENDIX A.
- TEMPORARY AND PERMANENT E&S CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND REPAIR SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCH OF RAIN PER 24-HOUR PERIOD.
- TEMPORARY E&S CONTROL BMPs SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON-SITE. DISTURBED SOIL RESULTING FROM REMOVAL OF BMPs OR VEGETATION SHALL BE PERMANENTLY STABILIZED.

**MATERIAL WASTE HANDLING AND RECYCLING**

- GARBAGE DISPOSAL IS HANDLED THROUGH ONE OF THE LOCAL WASTE MANAGEMENT PROVIDERS/FACILITIES. THE CONTRACTOR WILL LEASE A DUMPSTER FOR THE DURATION OF THE PROJECT WHICH WILL BE DISPOSED OF AT A LICENSED/PERMITTED MUNICIPAL LANDFILL.
- THE CONTRACTOR WILL DISPOSE OF ALL SCRAP MATERIAL. THE SCRAP MATERIAL MUST BE REMOVED FROM THE SITE AND DISPOSED OF OR RECYCLED AT A PROPERLY LICENSED/PERMITTED FACILITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND/OR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS ARE HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING BUT NOT LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, WVDEP, AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- WHERE FEASIBLE, CONSTRUCTION WASTE MATERIALS WILL BE RECYCLED OR WILL BE TAKEN TO THE NEAREST APPROVED FACILITY FOR DISPOSAL. EXCESS SOIL MATERIAL, IF ANY, WILL BE SPREAD AND REVEGETATED WITHIN THE ROW. OFF-SITE SPOIL AND/OR BORROW SITES MUST BE OPERATED UNDER A CURRENT NPDES.

**SEEDING**

- SEE DETAILS 11-13 FOR TEMPORARY SEEDING, PERMANENT SEEDING, AND MULCHING REQUIREMENTS.

**POLLUTANT CONTROLS**

- ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF SURFACE WATER. WOODY DEBRIS MAY BE CHOPPED AND SPREAD ON SITE.
- COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE.
- MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF NEEDED, OVER THE VEHICLE.
- APPLICATION OF AGRICULTURAL CHEMICALS INCLUDING FERTILIZERS AND PESTICIDES SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO SURFACE WATER RUNOFF. MANUFACTURERS' RECOMMENDATIONS FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED.
- BMPs SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF SURFACE WATER RUNOFF BY PH MODIFYING SOURCES. THESE SOURCES INCLUDE BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS.
- REPORT SPILLAGE OR DISCHARGE OF POLLUTANTS WITHIN 24-HOURS.

NO.	BY	DATE
1		
2		
3		
4		
5		

NO.	BY	DATE
1		
2		
3		
4		
5		

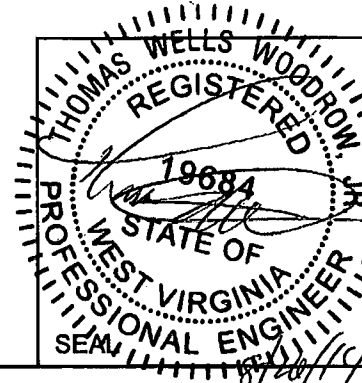
**KLEINFELDER**  
 Right People. Right Solutions.  
 230 EXECUTIVE DRIVE, SUITE 122  
 CRANBERRY TOWNSHIP, PA 15066  
 PH: 724-772-7072 FAX: 724-772-7079  
 www.kleinfelder.com

MOJO FILE  
 Canton East, ESCP, Nobsa Sheets.dwg  
 PROJ. NO. 133916

**CANTON EAST GATHERING LINE  
 FLINT RUN STREAM CROSSING  
 EROSION AND SEDIMENT  
 CONTROL NOTES**

ANTERO MIDSTREAM LLC  
 CANTON EAST GATHERING LINE  
 WEST VIRGINIA  
 DODDRIDGE COUNTY

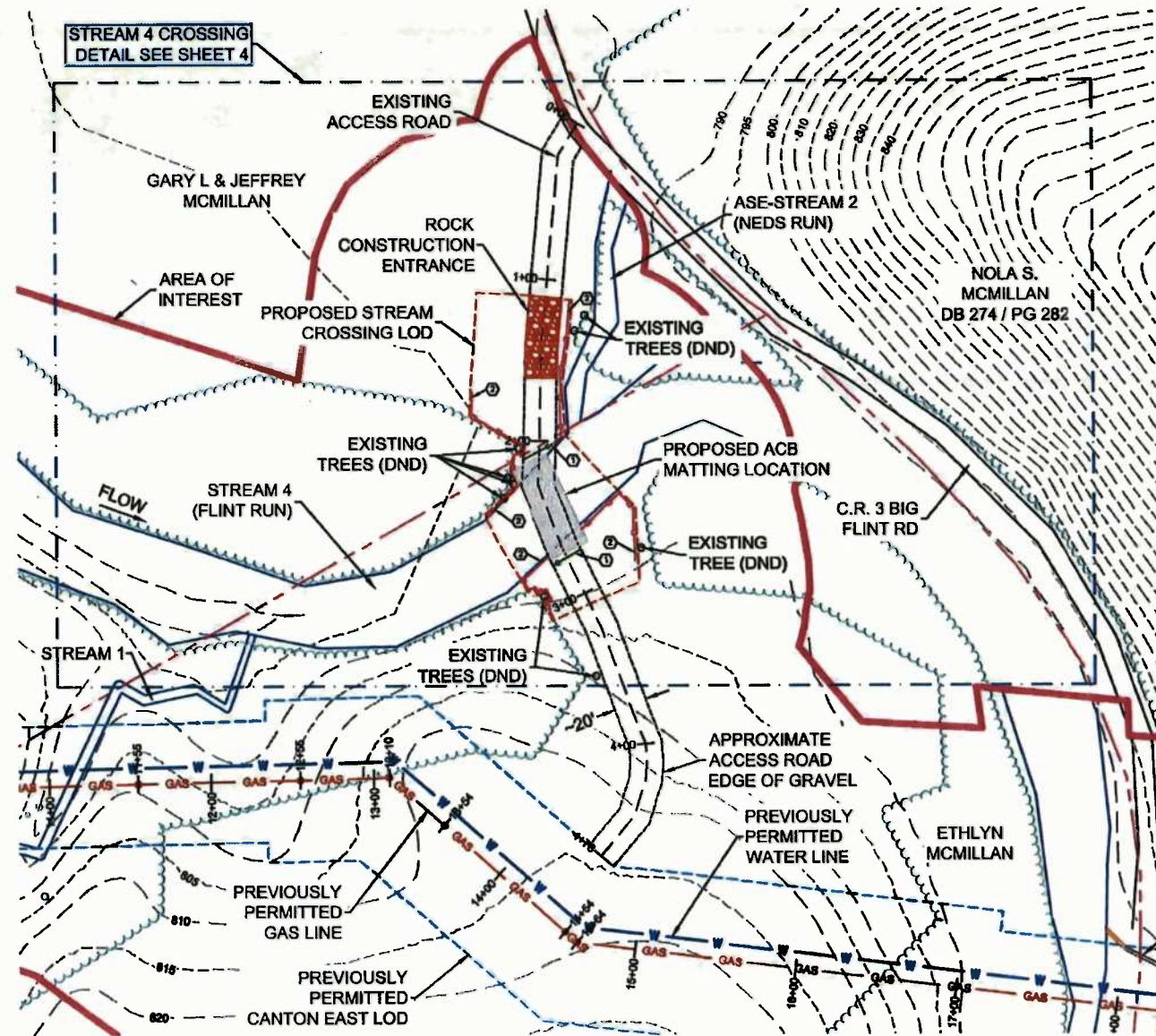
DESIGNED BY: MOI  
 MODIFIED BY: -  
 CHECKED BY: JBC  
 DATE: 08-22-14  
 SCALE:  
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 0 0.5 1.0 1.5 2.0  
 FIGURE  
**4**  
 2 of 4 sheets



ATTACHED IMAGES: Area Construction Permit, Title Block, Construction, ESCP, ROW, EROSION AND SEDIMENT CONTROL NOTES  
 ATTACHED NOTES: Area Construction Permit, Title Block, Construction, ESCP, ROW, EROSION AND SEDIMENT CONTROL NOTES

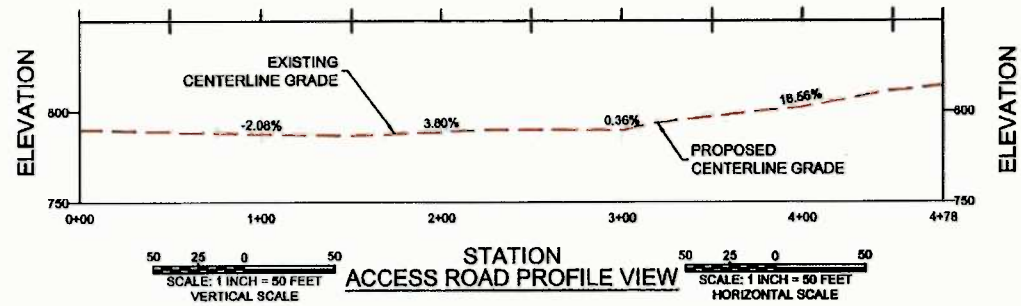
PLOTTED: 25 Aug 2014, 2:56pm, mhy





**ARTICULATED CONCRETE BLOCK STREAM CROSSING CONSTRUCTION SEQUENCE:**

1. REMOVE ALL SURFACE VEGETATION AND DEBRIS
2. PREPARE EXISTING SUBGRADE FOR INSTALLATION BY REMOVING UNACCEPTABLE SOILS AND DEBRIS
3. DIVERT STREAM FLOW AROUND CONSTRUCTION SITE
4. EXCAVATE EXISTING GRADE TO 12" BELOW FINAL GRADE FOR BASE AGGREGATE
5. EXCAVATE TOE-IN TRENCHES MINIMUM 3 FEET OUTSIDE PERIMETER OF MATTING
6. INSTALL ACF ENVIRONMENTAL HSB2 GEOTEXTILE OR APPROVED EQUAL ON PREPPED SUBGRADE WITH 3 FEET OF OVERLAP TO SEAL THE SEAMS AND FOR TOE-INS
7. INSTALL 6" BASE OF CRUSHED STONE (AASHTO #57) ON TOP OF GEOTEXTILE AND SPREAD LEVEL
8. INSTALL 6" SHOREBLOCK SD-600-CC UNIT ARTICULATED CONCRETE BLOCK (ACB) MATS ON CRUSHED BASE
9. ANCHOR AND GROUT ACB MAT JOINTS WITH 4000 PSI CONCRETE IF GAP IS GREAT THAN 2", OTHERWISE, FILL GAP IN WITH AASHTO #57 STONE
10. BACKFILL TOE-IN TRENCHES WITH R-4 RIP-RAP OR APPROVED EQUAL



**EROSION & SEDIMENT CONTROL KEY NOTES**

- 1 FURNISH & INSTALL MINIMUM 12" DIAMETER COMPOST FILTER SOCK PER DETAIL 7.
- 2 FURNISH & INSTALL SILT FENCE PER DETAIL 2 AND 2A.

**\*\*NOTICE TO CONTRACTOR\*\***  
**\*\* WARNING \*\* WARNING \*\* WARNING \*\***  
 UNDERGROUND OR OVERHEAD UTILITIES MAY BE PRESENT AT ROAD CROSSING. CONTRACTOR SHALL FIELD VERIFY UTILITIES PRIOR TO START OF CONSTRUCTION AND SHALL USE CAUTION WHEN USING MACHINERY IN THESE AREAS.

**LEGEND**

- EXISTING INDEX CONTOUR (10')
- EXISTING INTERMEDIATE CONTOUR (5')
- EXISTING ACCESS ROAD
- EXISTING TREE LINE
- EXISTING PROPERTY LINE
- PROPOSED RIGHT-OF-WAY/LIMITS OF DISTURBANCE
- PROPOSED LATERAL
- PROPOSED WATER LINE
- DELINEATED STREAM
- DELINEATED WETLAND
- DELINEATED WETLAND AREA
- EROSIONAL FEATURE
- AREA OF INTEREST
- PROPOSED COMPOST FILTER SOCK
- PROPOSED SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE

NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			

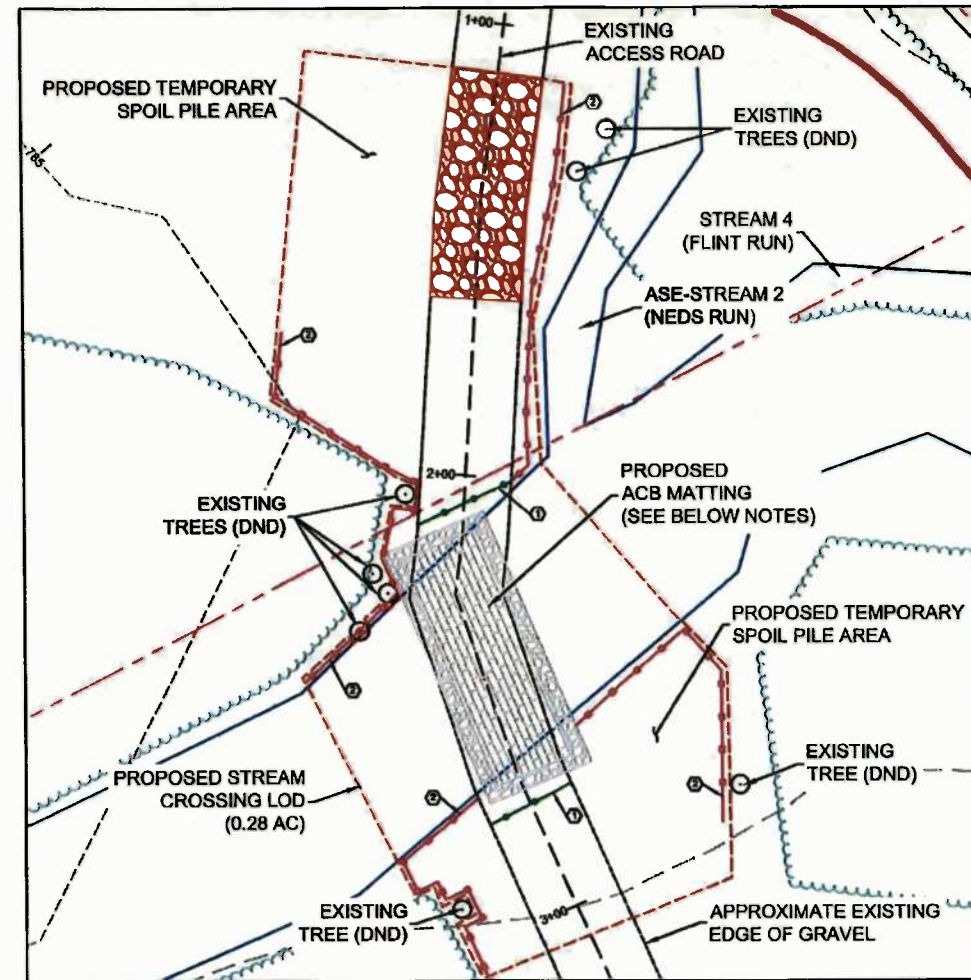
**KLEINFELDER**  
 Bright People. Bright Solutions.  
 200 BUCKLEY DRIVE SUITE 1000  
 PHILADELPHIA, PA 19103  
 PH: 724-772-7072 FAX: 724-772-7079  
 www.kleinfelder.com  
 PROJ. NO. 133916  
 CANTON EAST ESCP Plan Sheet.dwg

**CANTON EAST GATHERING LINE  
 FLINT RUN STREAM CROSSING  
 EROSION & SEDIMENT  
 CONTROL PLANS**  
 ANTERO MIDSTREAM LLC  
 CANTON EAST GATHERING LINE  
 DODDRIDGE COUNTY  
 WEST VIRGINIA

THOMAS WELLS WOODROW, JR.  
 REGISTERED  
 19684  
 WEST VIRGINIA  
 PROFESSIONAL ENGINEER  
 SEAL

DESIGNED BY: MDI  
 MODIFIED BY: -  
 CHECKED BY: JBC  
 DATE: 06-22-14  
 SCALE:  
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 0 0.5 1.0 1.5 2.0  
 FIGURE  
**4**  
 3 of 4 sheets

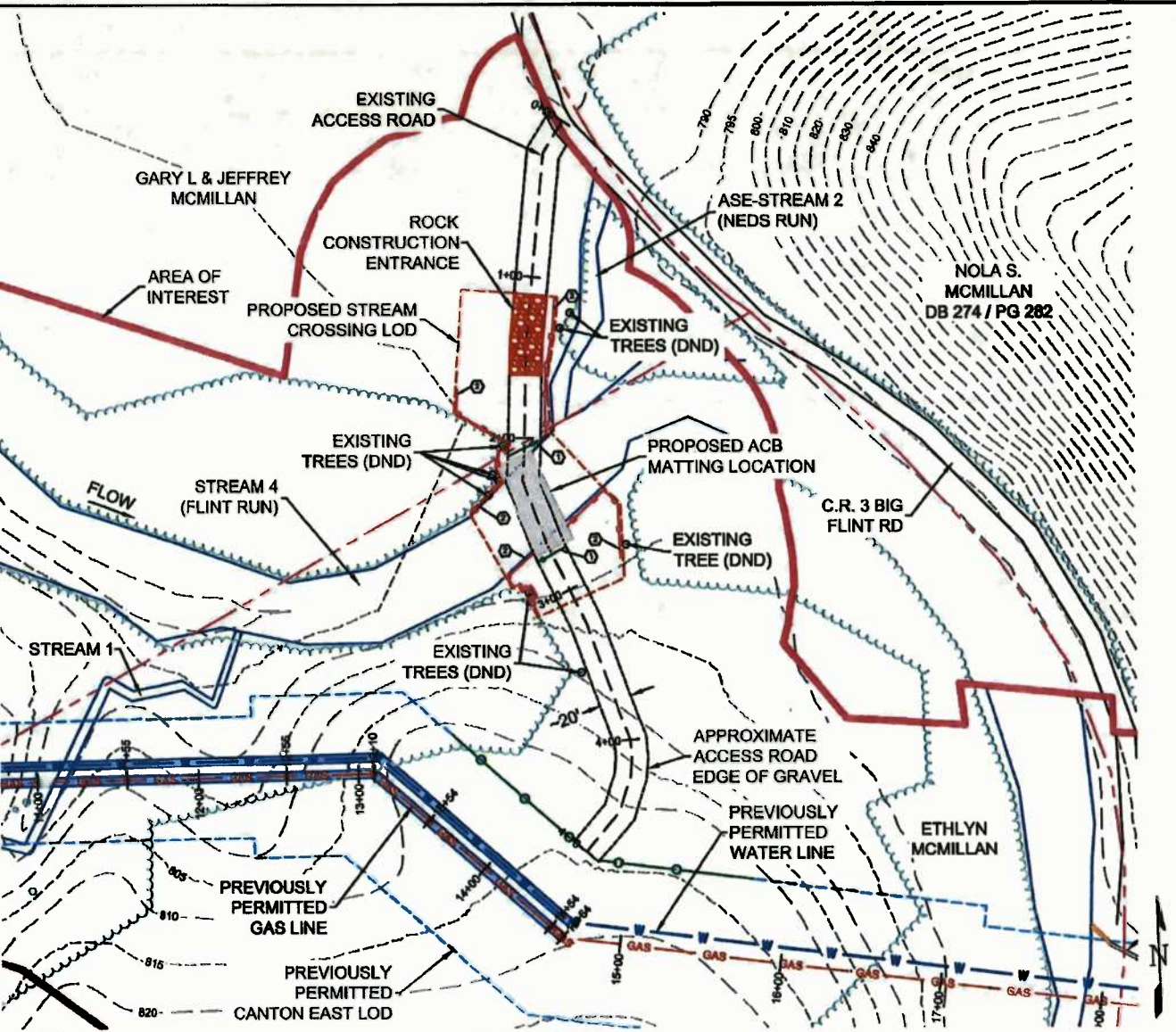
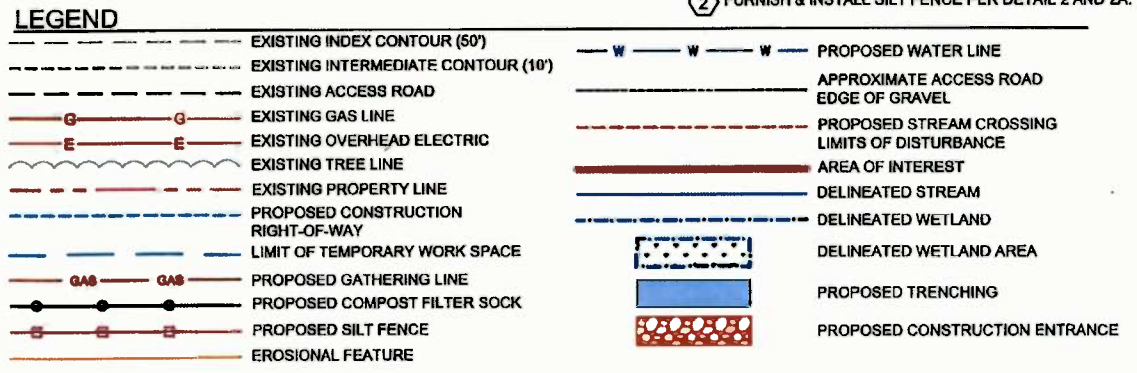




NOTES:  
 1. ACB MAT TYPICAL DIMENSIONS ARE 20' X 8'  
 2. STREAM CROSSING WILL REQUIRE 9 MATS (3X3)  
 3. 3' TOE-IN REQUIRED ON ALL EXPOSED SIDES OF MAT

**PLAN VIEW**  
 SCALE: 1" = 20'

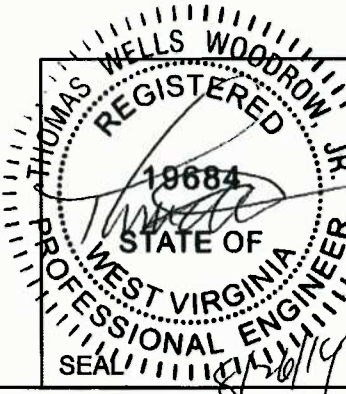
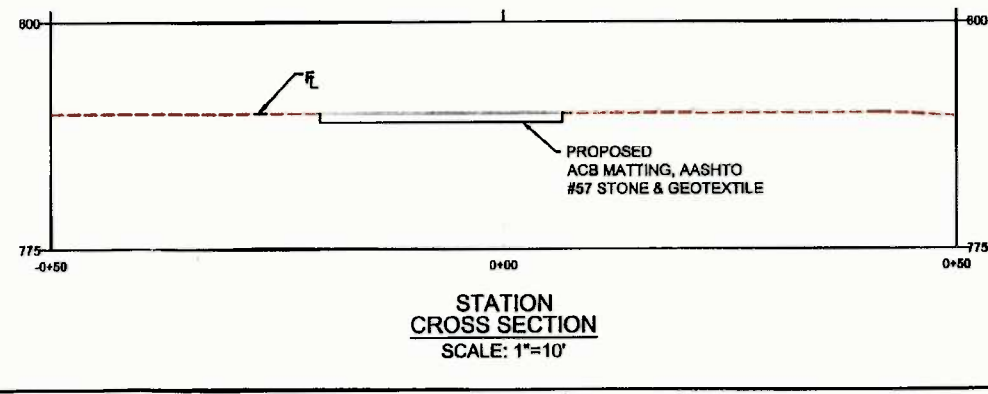
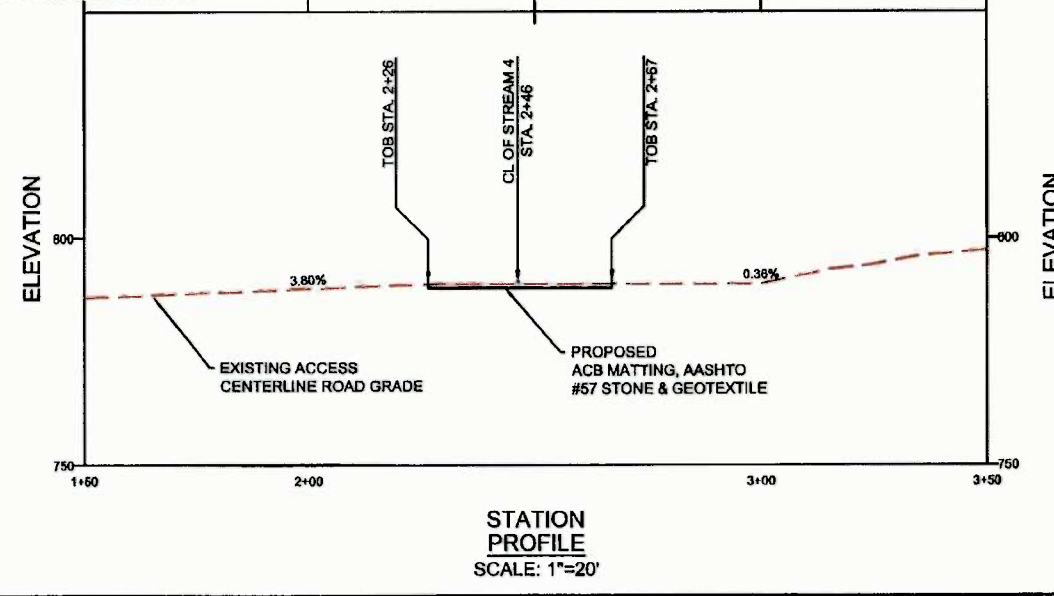
**EROSION & SEDIMENT CONTROL KEY NOTES**  
 ① FURNISH & INSTALL MINIMUM 12" DIAMETER COMPOST FILTER SOCK PER DETAIL 7.  
 ② FURNISH & INSTALL SILT FENCE PER DETAIL 2 AND 2A.



NOTES:  
 1. ORANGE SAFETY FENCE TO BE INSTALLED AT THE EDGE OF THE PROPOSED LIMITS OF CONSTRUCTION TO PREVENT UNNECESSARY ACCESS INTO STREAM.  
 2. SPOIL MATERIAL WILL BE SPREAD AND COMPACTED INTO THE EXISTING GRAVEL ACCESS ROAD

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

STREAM 4 DESIGNATION: PERENNIAL  
 PROPOSED ACCESS ROAD METHOD OF CONSTRUCTION: AGGREGATED CONCRETE BLOCKS



NO.	REVISION	BY	DATE
1			
2			
3			
4			

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 CHARLOTTE, NC 28204  
 PH: 704-772-7072 FAX: 704-772-7079  
 www.kleinfelder.com

AGC 015  
 Canton East ESCP Stream Crossing Details.dwg  
 133916

**CANTON EAST GATHERING LINE  
 FLINT RUN STREAM CROSSING DETAILS**

ANTERO MIDSTREAM LLC  
 CANTON EAST GATHERING LINE  
 DODDRIDGE COUNTY  
 WEST VIRGINIA

DESIGNED BY: MDI  
 CHECKED BY: JBC  
 DATE: 08-22-14  
 SCALE:  
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
 0 0.5 1.0 1.5 2.0  
 FIGURE  
**4**  
 4 of 4 sheets

ATTACHED IMAGES: X:\net\charleston\p\m\133916\015\015.dwg; C:\Users\jbc\Documents\133916\015\015.dwg; C:\Users\jbc\Documents\133916\015\015.dwg; C:\Users\jbc\Documents\133916\015\015.dwg; C:\Users\jbc\Documents\133916\015\015.dwg

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