

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: #14-119

Equitrans Inc.
100 Allegheny Center Mall
Pittsburgh, PA 15212

2. Article Number
(Transfer from service label)

7013 2250 0001 6914 7936

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Kolowalew*

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

2-11-14

- 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

UNITED STATES POSTAL SERVICE



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

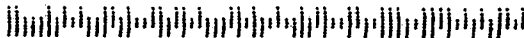
• Sender: Please print your name, address, and ZIP+4® in this box •

Dan Wellings
Doddrige Co. Flood P G
118 E. Court St
West Union, WV 26455

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

2014 FEB 13 AM 11:46

FILED



SENDER: COMPLETE THIS SECTION

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- 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: #14-119

Mark & Clara McGill
Rt. 1 Box 258
West Union, WV 26456

2. Article Number
(Transfer from service label)

7013 2250 0001 6914 7950

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X 

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

2-8-14

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

3. Service Type

Certified Mail

Express Mail

Registered

Return Receipt for Merchandise

Insured Mail

C.O.D.

4. 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 •

FILED

2014 FEB 10 AM 11:36

BEITH A. ROGERS
COUNTY CLERK
DODDRIIDGE COUNTY WV

Beith Wellings
Doddridge Co. Flood Plain MGT.
115 E. Court St
West Union, WV 26456

26456126227



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: #14-119

Anthony J. Mancusco
365 Dye Dr.
Bridgeport, WV 26330

2. Article Number
(Transfer from service label)

7013 2250 0001 6914 7967

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X



Agent

Addressee

B. Received by (Printed Name)

ANTHONY MANCUSO

C. Date of Delivery

2-8-14

D. Is delivery address different from item 1? Yes

If YES, enter delivery address below: No

3. Service Type

X

Certified Mail

Express Mail

Registered

Return Receipt for Merchandise

Insured Mail

C.O.D.

4. 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 •

FILED

2014 FEB 10 AM 11:36

BETH A. MURPHY
COUNTY CLERK
JDR

an Wellings

Radridge Co. Flood Plain MGT.

E. Court St

St Union, WV 26456

6126227



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: #14-119

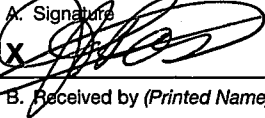
Terry & JoAnn Ross
 Box 141
 West Union, WV 26456

2. Article Number
 (Transfer from service label)

7013 2250 0001 6914 7899

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X 

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

2-12-14

- 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

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•

Dan Wellings
Doddrige Co. Floor Pain MGT.
118 E. Court St
West Union, WV 26456

DEPT. A. ROGERS
COUNTRY CLUB
DODDRIDGE COUNTY, WV
2014 FEB 13 AM 11:46

FILED



SENDER: COMPLETE THIS SECTION

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- 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: #14-119
 Ricky America etux &
 Albert R Richards etux
 Rt 1 Box 325
 West Union, WV 26456

2. Article Number
 (Transfer from service label)

7013 2250 0001 6914 7929

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X 

- Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

2-10-14

- 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

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 •

FILED

2014 FEB 10 AM 11:36
8
BETSY A. ROGERS
COUNTY CLERK
DORRIDGE COUNTY, WV

Wellings
Court St
26452

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: #14-119

WV Railroad Maint. Authority
 P.O. Box 470
 Moorefield, WV 26836

2. Article Number
 (Transfer from service label)

7013 2250 0001 6914 7943

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Tammy Cooper

- Agent
 Addressee

B. Received by (Printed Name)

Tammy Cooper

C. Date of Delivery

2-10-14

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

120 Water Plant Dr.
 Moorefield WV 26836

3. Service Type

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

4. 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 •

Dan Wellings
Doddridge Co. Flood Plan MGT.
118 E. Court St
West Union, WV 26455

ETHAN ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, W.V.

2014 FEB 12 AM 11:35

FILED

6125027



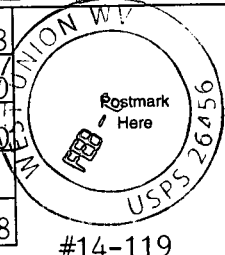
7013 2250 0001 6914 7912

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **Howard Eakles**
 Street, Apt. No., or PO Box No. **Rt 1 Box 325 C**
 City, State, ZIP+4 **West Union, WV 26456**

PS Form 3800, August 2006 See Reverse for Instructions

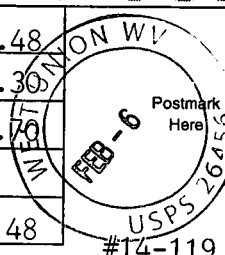
7013 2250 0001 6914 7974

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **Eleanor Meyer**
 Street, Apt. No., or PO Box No. **19 Heath Place**
 City, State, ZIP+4 **Garden City, NY 11530**

PS Form 3800, August 2006 See Reverse for Instructions

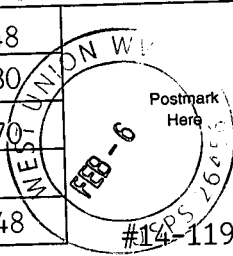
7013 2250 0001 6914 7967

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **Anthony J. Mancusco**
 Street, Apt. No., or PO Box No. **365 Dye Dr.**
 City, State, ZIP+4 **Bridgeport, WV 26330**

PS Form 3800, August 2006 See Reverse for Instructions

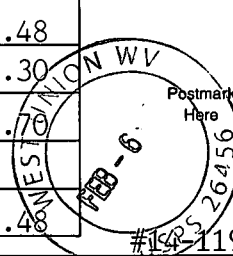
7013 2250 0001 6914 7936

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **Equitrans Inc.**
 Street, Apt. No., or PO Box No. **100 Allegheny Center Mall**
 City, State, ZIP+4 **Pittsburgh PA 15212**

PS Form 3800, August 2006 See Reverse for Instructions

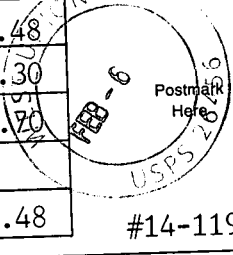
7013 2250 0001 6914 7943

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **WV Railroad Maint. Authority**
 Street, Apt. No., or PO Box No. **P.O. Box 470**
 City, State, ZIP+4 **Moorefield, WV 26836**

PS Form 3800, August 2006 See Reverse for Instructions

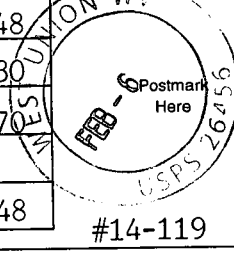
7013 2250 0001 6914 7950

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **Mark & Clara McGill**
 Street, Apt. No., or PO Box No. **Rt 1, Box 258**
 City, State, ZIP+4 **West Union, WV 26456**

PS Form 3800, August 2006 See Reverse for Instructions

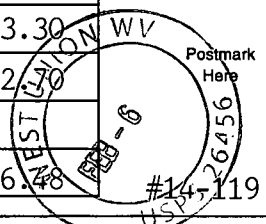
7013 2250 0001 6914 7899

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **Terry & Jo Ann Ross**
 Street, Apt. No., or PO Box No. **Box 141**
 City, State, ZIP+4 **West Union, WV 26456**

PS Form 3800, August 2006 See Reverse for Instructions

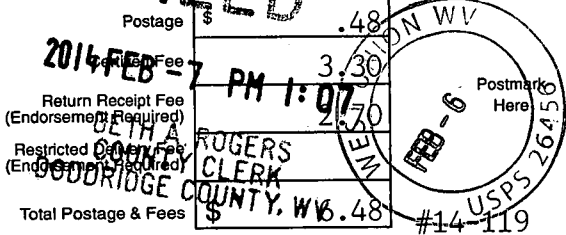
7013 2250 0001 6914 7929

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **Ricky America ETUX & Albert R. Richards ETUX**
 Street, Apt. No., or PO Box No. **Rt 1 Box 325**
 City, State, ZIP+4 **West Union, WV 26456**

PS Form 3800, August 2006 See Reverse for Instructions

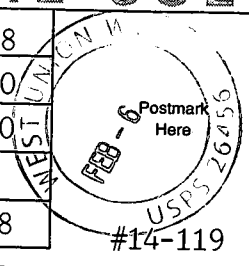
7013 2250 0001 6914 7905

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

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

OFFICIAL USE

Postage	\$.48
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 6.48



Sent To **William P Seahorn III & Ruth Rebecca Johnson**
 Street, Apt. No., or PO Box No. **Box 1483**
 City, State, ZIP+4 **West Union, WV 26456**

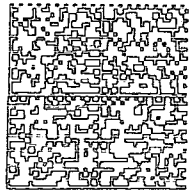
PS Form 3800, August 2006 See Reverse for Instructions

CERTIFIED MAIL™

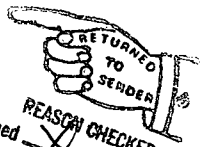
Dan Wellings
Doddridge Co Flood Plain MGT
Room 102
118 East Court St.
West Union, WV 26456



7013 2250 0001 6914 7974



HASLER	015H14161808	US POSTAGE
	\$6.48	
	02/05/14	
Mailed From 26456		



REASON CHECKED

Unclaimed Refused _____

Addressee Unknown _____

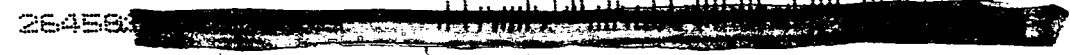
Insufficient Address _____

Such Street _____ Number _____

Such Office in Street _____

~~JEAN MEYER~~
~~19 HEATH PLACE~~
~~GARDEN CITY NY 11530~~

DELIVERED FEB 10 2014
 BY POSTAL SERVICE
 3-14
 3-19



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: #14-119

Elmer Meyer
 19th Place
 Garden City, NY 11530

2. Article Number

(Transfer from service label)

7013 2250 0001 6914 7974

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

3. Service Type

Certified Mail

Express Mail

Registered

Return Receipt for Merchandise

Insured Mail

C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 4th day of February, 2014

EQT GATHERING, LLC

MOSA – SO15 GATHERING LINE # 14-119

filed an

application for a Floodplain Permit to develop land located at or
about: **SURFACE OWNERS: ELEANOR MEYER & WV RAILROAD MAINTAIN
AUTHORITY, WEST UNION & CENTRAL DISTRICT , W/B 10/526, D/B 216/166
T/M 8-14-6, & 1-7-94**

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 **FEBRUARY 24, 2014.**

Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Dan Wellings, Doddridge County Flood Plain Manager

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

SENDER: COMPLETE THIS SECTION

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- 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: #14-119

William P Seahorn III &
Ruth Rebecca Johnson
Box 1483
West Union, WV 26456

2. Article Number
(Transfer from service label)

7013 2250 0001 6914 7905

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

3. Service Type

Certified Mail®

Priority Mail Express™

Registered

Return Receipt for Merchandise

Insured Mail

Collect on Delivery

4. Restricted Delivery? (Extra Fee)

Yes

Legal Advertisement:
Doddridge County
Floodplain Permit Application

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MOSA – SO15 GATHERING LINE # 14-119

filed an

application for a Floodplain Permit to develop land located at or

about: **SURFACE OWNERS: ELEANOR MEYER & WV RAILROAD MAINTAIN**

AUTHORITY, WEST UNION & CENTRAL DISTRICT , W/B 10/526, D/B 216/166

T/M 8-14-6, & 1-7-94

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Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Dan Wellings, Doddridge County Flood Plain Manager

CERTIFIED MAIL™

Dan Wellings
Doddridge Co Flood Plain MGT
Room 102
118 East Court St.
West Union, WV 26456



7013 2250 0001 6914 7912

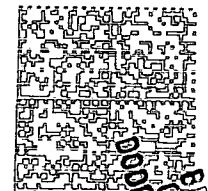
- A
- C
- S
- INSUFFICIENT ADDRESS
- ATTEMPTED NOT KNOWN
- NO SUCH NUMBER/ STREET
- NOT DELIVERABLE AS ADDRESSED
- UNABLE TO FORWARD
- OTHER

Unclaimed

RTS
RETURN TO SENDER

2-7

1ST NOTICE 2-7
2ND NOTICE 2-12
3-4

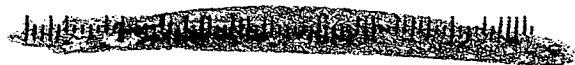


015H14161808
\$6.48
02705714
Registered Form 26456

RECEIVED
DODDRIDGE COUNTY CLERK
MAY 10 AM 11:40

US POSTAGE

26456970025



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: #14-119

Howard Eakles
Rt. 1, Box 325 C
West Union, WV 26456

2. Article Number
(Transfer from service label)

7013 2250 0001 6914 7912

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

3. Service Type

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

4. Restricted Delivery? (Extra Fee) Yes

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 4th day of February, 2014

EQT GATHERING, LLC

MOSA – SO15 GATHERING LINE # 14-119

filed an

application for a Floodplain Permit to develop land located at or

about: **SURFACE OWNERS: ELEANOR MEYER & WV RAILROAD MAINTAIN**

AUTHORITY, WEST UNION & CENTRAL DISTRICT , W/B 10/526, D/B 216/166

T/M 8-14-6, & 1-7-94

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may be inspected or copied during regular business hours.

Any interested persons who desire to comment shall present
the same in writing by **FEBRUARY 24, 2014.**

Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Dan Wellings, Doddridge County Flood Plain Manager

PERMIT NO. [#] 14-119

DODDRIDGE COUNTY
FLOODPLAIN DEVELOPMENT
PERMIT

PURPOSE FOR PERMIT: Gas Line

ISSUED TO EQT Gathering, LLC

ADDRESS: 115 Professional Place, Bridgeport

PROJECT ADDRESS: Sunnyside Road

ISSUED BY: Robt J. Jander

DATE: 3-6-14

CONSTRUCTION MUST START WITHIN 180 DAYS FROM ISSUED DATE. PERMIT EXPIRES IN 12 MONTHS FROM ISSUED DATE. IF EXTENTION IS NEEDED A REQUEST MUST BE MADE IN WRITING STATING A REASON FOR THE EXTENTION.

THIS PERMIT MUST BE POSTED ON THE PREMISES IN A CONSPICUOUS PLACE SO AS TO BE CLEARLY VISIBLE FROM THE STREET.

Doddridge County, West Virginia

RECEIPT NO: 1577

DATE: 2014/03/05

FROM: POTESTA & ASSOCIATES INC

AMOUNT: \$ 2,597.78

TWO THOUSAND FIVE HUNDRED NINETY SEVEN DOLLARS AND 78 CENTS

FOR: #14-119 EQT MOSA-S015 GATHERING LINE

00000012158 FP-BUILDING PERMITS

020-318

TOTAL: \$2,597.78

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

Doddridge County, West Virginia

RECEIPT NO: 1578

DATE: 2014/03/05

FROM: POTESTA & ASSOCIATES INC

AMOUNT: \$

454.44

FOUR HUNDRED FIFTY FOUR DOLLARS AND 44 CENTS

FOR: #14-119 EQT MOSA-S015 GATHERING LINE

00000012232 FP-BUILDING PERMITS

020-318

TOTAL:

\$454.44

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 4th day of February, 2014

EQT GATHERING, LLC

MOSA – SO15 GATHERING LINE # 14-119

filed an

application for a Floodplain Permit to develop land located at or
about: **SURFACE OWNERS: ELEANOR MEYER & WV RAILROAD MAINTAIN
AUTHORITY, WEST UNION & CENTRAL DISTRICT , W/B 10/526, D/B 216/166
T/M 8-14-6, & 1-7-94**

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 **FEBRUARY 24, 2014.**

Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Dan Wellings, Doddridge County Flood Plain Manager



Engineers and Environmental Consultants

7012 MacCorkle Avenue, SE, Charleston, WV 25304 • (304) 343-1400 • FAX (304) 343-9031; www.potesta.com

#14-119

FILED

2014 JAN 29 PM 12: 59

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

January 27, 2014

Mr. Dan Wellings
Doddridge County Floodplain Coordinator
Doddridge County Commission
118 East Court Street
West Union, West Virginia 26456

RE: Floodplain Permit Application
EQT Gathering, LLC
EQT MOSA SO15 Gathering Line
Doddridge County, West Virginia
POTESTA Project No. 0101-13-0456-001

Dear Mr. Wellings:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this cover letter with the associated Floodplain Development Permit Application for the proposed MOSA SO15 Gathering Line Project. The proposed project will consist of installing approximately 21,353 linear feet of gathering line with associated work areas and upgrade of access roads. This gathering line crosses the floodplain in three different areas as shown in the attached three West Virginia Flood Maps. Based on information presented on the site FIRM (54017C0120C, 54017C0115C), a portion of the project is located within FEMA Flood Zone A from approximate gathering line stations 92+00 to 96+10, 112+10 to 119+00, and 202+00 to 213+53, portion of work areas, and access roads as shown on the attached site plans 7, 11, and 12. The work areas for this project are typically used to layout and assemble gas line fixture and are associated with minimal disturbance. Flood Zone A is the regulatory floodplain associated with the Base Flood (1 percent annual chance flood event), commonly referred to as the 100-year floodplain and indicates that the limits of the floodplain are approximate; as such, Base Flood Elevations (BFEs) have not been previously established by FEMA. Work within the floodplain associated with this gathering line shall include the installation of a stabilized construction entrance, installation of water bars to control surface runoff, and installation of a buried well line. All work associated with the proposed MOSA SO15 Gathering Line within the limits of the floodplain will be in accordance with the following. No permanent aboveground structures are to be constructed within the floodplain. Backfill being installed over the buried pipe will be compacted back to original grade. Any stabilized construction entrances to be installed within the floodplain shall be installed by removing existing material to a depth suitable for installing the entrances so that the top of the gravel surface is at original grade elevations. Once construction is complete, the entrance will be removed and replaced with topsoil back to original grade. Any excess material associated with this activity shall be placed outside of the floodplain limits. No fill shall be placed within the floodplain limits above original elevations.

POTESTA & ASSOCIATES, INC.

Charleston, West Virginia ° Morgantown, West Virginia ° Winchester, Virginia

Mr. Dan Wellings
January 27, 2014
Page 2

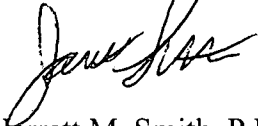
For this project, a temporary timber mat crossing will be used to transport equipment and supplies across the first Arnolds Creek Crossing. This crossing is shown on the "MOSA SO15 – Arnolds Creek Crossing #1" Figure and Drawing No. 7 (enclosed). A Hydraulic Analysis Results Report is enclosed showing the effects of this temporary crossing. The results of this report show that there may be a 0.01 feet increase in 100-year flood elevations resulting from construction of the proposed temporary crossing when comparing the existing conditions and the proposed conditions.

Included with this permit application are floodplain map, site plan sheets, Hydraulic Analysis Results Report for the temporary timber mat crossing, and miscellaneous detail sheets for this project.

If you have any questions, please feel free to contact me at (304) 342-1400 or jmsmith@potesta.com, or Megan Landfried (EQT) at (304) 848-0061.

Sincerely,

POTESTA & ASSOCIATES, INC.

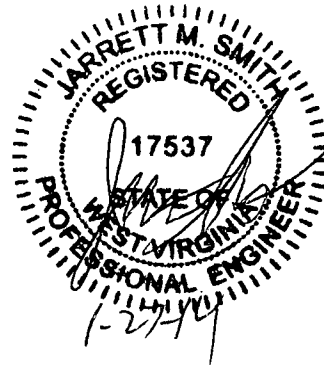


Jarrett M. Smith, P.E.
Senior Engineer

JMS/clr

Enclosures

c: Ms. Megan Landfried – EQT (via email)





Engineers and Environmental Consultants

7012 MacCorkle Avenue, SE, Charleston, WV 25304 • (304) 343-1400 • FAX (304) 343-9031; www.potesta.com

January 27, 2014

\$419,555

*Need Total
itemized
construction cost
breakdown.*

Mr. Dan Wellings
Doddridge County Floodplain Coordinator
Doddridge County Commission
118 East Court Street
West Union, West Virginia 26456

RE: Floodplain Permit Application
EQT Gathering, LLC
EQT MOSA SO15 Gathering Line
Doddridge County, West Virginia
POTESTA Project No. 0101-13-0456-001

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POTESTA & ASSOCIATES, INC.

Charleston, West Virginia • Morgantown, West Virginia • Winchester, Virginia

Mr. Dan Wellings
January 27, 2014
Page 2

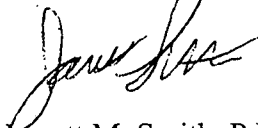
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Included with this permit application are floodplain map, site plan sheets, Hydraulic Analysis Results Report for the temporary timber mat crossing, and miscellaneous detail sheets for this project.

If you have any questions, please feel free to contact me at (304) 342-1400 or jmsmith@potesta.com, or Megan Landfried (EQT) at (304) 848-0061.

Sincerely,

POTESTA & ASSOCIATES, INC.

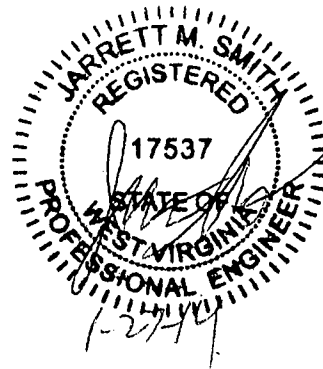


Jarrett M. Smith, P.E.
Senior Engineer

JMS/clr

Enclosures

c: Ms. Megan Landfried – EQT (via email)



#14-119
EQT-M05A-5015
FILED Gathering
line

2014 JAN 29 PM 12: 59

DODDRIDGE COUNTY
FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY WV

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 Megan E Landfried

DATE 1/23/14

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: EQT Gathering, LLC , c/o Megan Landfried
ADDRESS: 115 Professional Place, Bridgeport, WV 26330
TELEPHONE NUMBER: (304) 848-0061

BUILDER'S NAME: Apex Pipeline Services, Inc.
ADDRESS: 503 River Road, Nitro, WV 25143
TELEPHONE NUMBER: 304-204-0080

ENGINEER'S NAME: Jarrett M. Smith, P.E. / Potesta & Associates, Inc.
ADDRESS: 7012 MacCorkle Avenue, SE, Charleston, WV 25304
TELEPHONE NUMBER: (304) 342-1400

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT): ***SEE ATTACHED FOR PROJECT LOCATIONS AND ADJACENT LAND OWNERS.***

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT):

DISTRICT: _____

DATE/FROM WHOM PROPERTY PURCHASED: _____

LAND BOOK DESCRIPTION: _____

DEED BOOK REFERENCE: _____

TAX MAP REFERENCE: _____

EXISTING BUILDINGS/USES OF PROPERTY: _____

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: _____

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

<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 Altercation (including dredging and channel modification)
- Drainage Improvements (including culvert work)
- Road, Street, or Bridge Construction (TEMPORARY)
- 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:**

Crossing 1 - \$81,817
Crossing 2 - \$122,726
Crossing 3 - \$215,012

COST BREAKDOWN ?

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: _____
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: _____
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.
- (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): Megan Landfried

SIGNATURE: Megan Landfried **DATE:** 1/23/14

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: 115C 120C
Dated: 10-4-11

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.
FBFM 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:

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 Ralph Sandora DATE 3-6-14

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: _____

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 _____

Crossing #1

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT): Eleanor Meyer

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT): 19 HEATH PLACE
GARDEN CITY, NY 11530

DISTRICT: West Union

DATE/FROM WHOM PROPERTY PURCHASED: N/A

LAND BOOK DESCRIPTION: ARNOLDS CREEK 349.75 AC (SURFACE)

DEED BOOK REFERENCE: WB10/526

TAX MAP REFERENCE: 8-14-6

EXISTING BUILDINGS/USES OF PROPERTY: Class 2

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: N/A

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: N/A

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: Anthony J. Mancusco
ADDRESS: 365 DYE DR
BRIDGEPORT, WV 26330

NAME: Eleanor Meyer
ADDRESS: 19 HEATH PLACE
GARDEN CITY, NY 11530

NAME: _____

ADDRESS: _____

NAME: _____

ADDRESS: _____

Crossing #2

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT): Eleanor Meyer
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT): 19 HEATH PLACE
GARDEN CITY, NY 11530

DISTRICT: West Union

DATE/FROM WHOM PROPERTY PURCHASED: N/A

LAND BOOK DESCRIPTION: ARNOLDS CREEK 349.75 AC (SURFACE)

DEED BOOK REFERENCE: WB10/526

TAX MAP REFERENCE: 8-14-6

EXISTING BUILDINGS/USES OF PROPERTY: Class 2

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: N/A

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: N/A

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NAME: Anthony J. Mancusco
ADDRESS: 365 DYE DR
BRIDGEPORT, WV 26330

NAME: MCGILL MARK A & CLARA J (SURV)
ADDRESS: RT 1 BOX 258
WEST UNION, WV 26456

NAME: _____
ADDRESS: _____

NAME: _____
ADDRESS: _____

Crossing #3

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT: WV RAILROAD MAINTENANCE AUTHORITY

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT): P O BOX 470 MOOREFIELD, WV 26836

DISTRICT: Central

DATE/FROM WHOM PROPERTY PURCHASED: N/A

LAND BOOK DESCRIPTION: 25.96 AC CENTRAL DISTRICT

DEED BOOK REFERENCE: 216/166

TAX MAP REFERENCE: 1-7-94

EXISTING BUILDINGS/USES OF PROPERTY: Class 3

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: N/A

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY N/A

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

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**NAME: EQUITRANS INC
ADDRESS: 100 ALLEGHENY CENTER MALL
PITTSBURGH, PA 15212**

**NAME: ROSS TERRY K & JO ANN (SURV)
ADDRESS: BOX 141
WEST UNION, WV 26456**

**NAME: AMERICA RICKY A ETUX & ALBERT R RICHARDS ETUX (SURV)
ADDRESS: RT 1 BOX 325
WEST UNION, WV 26456**

**NAME: EAKLES HOWARD
ADDRESS: RT 1 BOX 325C
WEST UNION, WV 26456**

**REMOVED
NAME: LIPSCOMB RONNA J
ADDRESS: RT 1 BOX 270A
WEST UNION, WV 26456**









**NAME: SEAHORN WILLIAM PONDER III & RUTH REBECCA JOHNSON
ADDRESS: BOX 1483
WEST UNION, WV 26456**

MOSA SO15 - Claylick Run Crossing



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 1/23/2014

-  Location of the mouse click
-  Approximate Study (Zone A)
-  Detailed Study (Zone AE, AH, AO)
-  Floodway
-  Flood Water Depth (HEC-RAS)
-  Cross Section Line
-  Base Flood Elevation Line
-  DFIRM Panel (Map) Index

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.

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

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain.

Flood Zone: A

Advisory Flood Height: About 808 feet

Water Depth: About 1.03 feet (Source: HEC_RAS)

Elevation: About 806 feet

Location (long, lat): 80.818280 W, 39.276897 N

Location (UTM 17N): (515674, 4347521)

FEMA Issued Flood Map: 54017C0115C

Contacts: Doddridge County

CRS Information: No CRS information available

Flood Profile: No Profile

HEC-RAS Model: No Model

Parcel Number:

MOSA SO15 - Arnolds Creek Crossing #1



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 1/23/2014

	Location of the mouse click		Cross Section Line
	Approximate Study (Zone A)		Base Flood Elevation Line
	Detailed Study (Zone AE, AH, AO)		DFIRM Panel (Map) Index
	Floodway		
	Flood Water Depth (HEC-RAS)		

User Notes:

Disclaimer:

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

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain.

Flood Zone: A

Advisory Flood Height: About 807 feet

Water Depth: About 8.48 feet (Source: HEC_RAS)

Elevation: About 799 feet

Location (long, lat): 80.811999 W, 39.276498 N

Location (UTM 17N): (516216, 4347477)

FEMA Issued Flood Map: 54017C0120C

Contacts: Doddridge County

CRS Information: No CRS information available

Flood Profile: No Profile

HEC-RAS Model: No Model

Parcel Number:

MOSA SO15 - Arnolds Creek Crossing #2



Map Created on 1/23/2014

	Location of the mouse click		Cross Section Line
	Approximate Study (Zone A)		Base Flood Elevation Line
	Detailed Study (Zone AE, AH, AO)		DFIRM Panel (Map) Index
	Floodway		
	Flood Water Depth (HEC-RAS)		

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.

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

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain.

Flood Zone: A

Advisory Flood Height: About 790 feet

Water Depth: About 9.40 feet (Source: HEC_RAS)

Elevation: About 781 feet

Location (long, lat): 80.821074 W, 39.294639 N

Location (UTM 17N): (515429, 4349489)

FEMA Issued Flood Map: 54017C0115C

Contacts: Doddridge County

CRS Information: No CRS information available

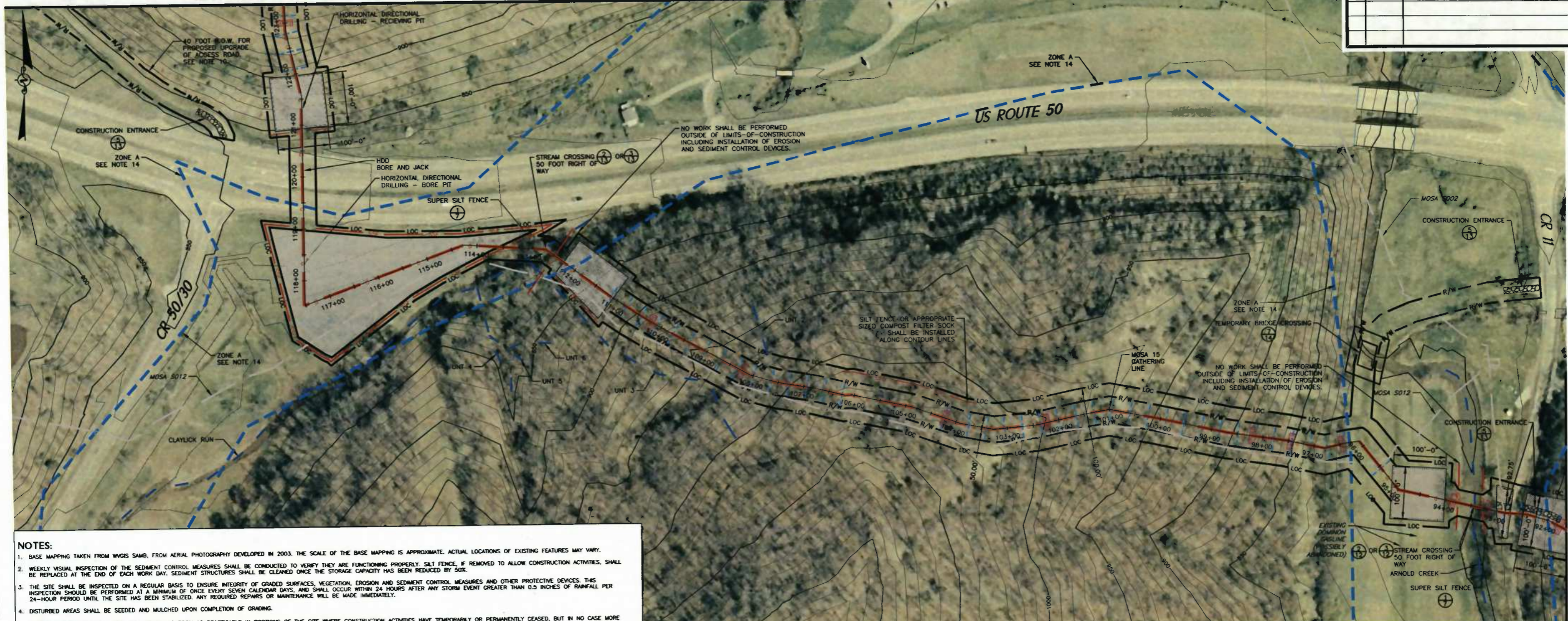
Flood Profile: No Profile

HEC-RAS Model: No Model

Parcel Number:

MATCHLINE - SEE SHEET 8

No.	Date	Revision

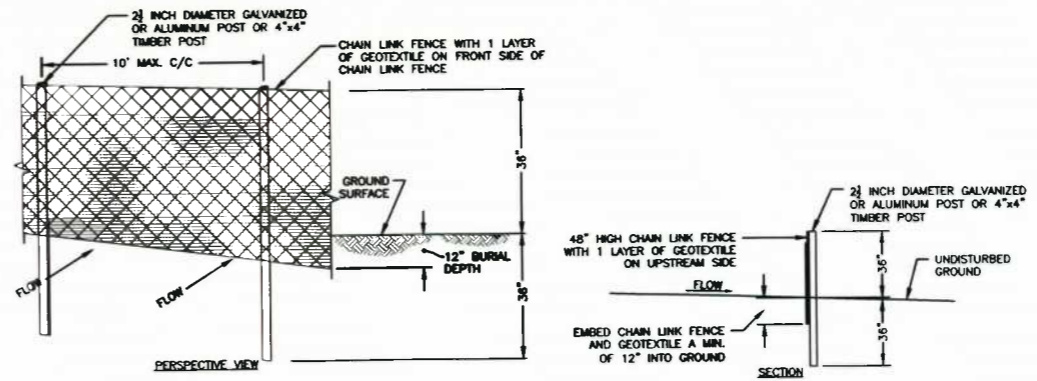


NOTES:

- BASE MAPPING TAKEN FROM WVGIS SAMB, FROM AERIAL PHOTOGRAPHY DEVELOPED IN 2003. THE SCALE OF THE BASE MAPPING IS APPROXIMATE. ACTUAL LOCATIONS OF EXISTING FEATURES MAY VARY.
- WEEKLY VISUAL INSPECTION OF THE SEDIMENT CONTROL MEASURES SHALL BE CONDUCTED TO VERIFY THEY ARE FUNCTIONING PROPERLY. SILT FENCE, IF REMOVED TO ALLOW CONSTRUCTION ACTIVITIES, SHALL BE REPLACED AT THE END OF EACH WORK DAY. SEDIMENT STRUCTURES SHALL BE CLEANED ONCE THE STORAGE CAPACITY HAS BEEN REDUCED BY 50%.
- THE SITE SHALL BE INSPECTED ON A REGULAR BASIS TO ENSURE INTEGRITY OF GRADED SURFACES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE DEVICES. THIS INSPECTION SHOULD BE PERFORMED AT A MINIMUM OF ONCE EVERY SEVEN CALENDAR DAYS, AND SHALL OCCUR WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAINFALL PER 24-HOUR PERIOD UNTIL THE SITE HAS BEEN STABILIZED. ANY REQUIRED REPAIRS OR MAINTENANCE WILL BE MADE IMMEDIATELY.
- DISTURBED AREAS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF GRADING.
 - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
 - 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.
 - 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 RESEEDING IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
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- ALL SILT FENCE SHALL BE INSTALLED ALONG THE CONTOURS, PERPENDICULAR TO THE FLOW OF WATER. SEE DETAIL ON DRAWING NO. 13.
- WATERBARS SHOWN ARE FOR PRESENTATION AND ARE NOT SHOWN IN THE ACTUAL PROPOSED LOCATIONS. A DETAIL OF THE PROPOSED WATERBAR IS SHOWN ON DRAWING NO. 14. WATERBARS SHALL BE INSTALLED ALONG THE ACCESS ROADS AND DISTURBED PORTIONS OF THE PIPELINE RIGHT-OF-WAY AT THE FOLLOWING SPACING:

ROAD GRADE (%)	DISTANCE BETWEEN WATERBARS (FT.)
1	400
2	250
5	135
10	80
15	60
20	45
30	35

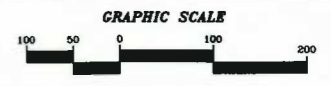
NOTE: ROADS THAT ARE COVERED WITH STONE MAY NOT REQUIRE WATERBARS.
- PROPOSED UPGRADES TO EXISTING ACCESS ROADS SHALL INCLUDE MINOR GRADING, EXTENDING OF EXISTING CULVERTS WHERE APPLICABLE AND PLACEMENT OF AGGREGATE. COMPOST FILTER SOCK SHALL BE INSTALLED DOWN GRADIENT PRIOR TO EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH THE ACCESS ROAD UPGRADES.
- TRENCH BREAKERS AND OTHER CONTROLS SHALL BE USED AT THE LOCATIONS SHOWN ON THE DRAWINGS AND AT ALL STREAM CROSSINGS WHERE FLOWING WATER IS PRESENT. CONTRACTOR SHALL SELECT ONE OF THE TWO STREAM CROSSING DETAILS SHOWN ON DRAWING NO. 13 BASED ON FIELD CONDITIONS.
- PIPELINE TRENCH BREAKERS MUST BE INSTALLED WHEN CROSSING STREAMS, WETLANDS, OR OTHER WATER BODIES. PLUGS SHOULD BE PLACED ON BOTH SIDES OF THE CROSSING. SEE "PIPELINE TRENCH BREAKER INSTALLATION DETAIL" ON DRAWING NO. 13.
- WORK AREAS WILL BE USED TO LAYOUT AND ASSEMBLE GAS LINE FIXTURES. MINIMAL EARTH DISTURBANCE IS EXPECTED. HOWEVER, EROSION AND SEDIMENT CONTROL WILL BE INSTALLED AS IF THE ENTIRE AREA WILL BE DISTURBED. DISTURBED AREAS WITHIN THE WORK AREAS WILL BE VEGETATED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN AND S.W.P.P.P.
- BASED ON INFORMATION PRESENTED ON THE SITE FIRM, THE PROJECT IS LOCATED WITHIN FEMA FLOOD ZONE A, WHICH IS THE REGULATORY FLOODPLAIN ASSOCIATED WITH THE BASE FLOOD (1 PERCENT ANNUAL CHANCE FLOOD EVENT), COMMONLY REFERRED TO AS THE 100-YEAR FLOODPLAIN. FLOOD ZONE A INDICATES THAT THE LIMITS OF THE FLOODPLAIN ARE APPROXIMATE, AS SUCH, BASE FLOOD ELEVATIONS (BFEs) HAVE NOT BEEN PREVIOUSLY ESTABLISHED BY FEMA. ALL WORK ASSOCIATED WITH THE PROPOSED PROJECT WITHIN THE LIMITS OF THE FLOODPLAIN WILL BE IN ACCORDANCE WITH THE FOLLOWING. NO PERMANENT ABOVE GROUND STRUCTURES ARE TO BE CONSTRUCTED WITHIN THE FLOODPLAIN. BACKFILL BEING INSTALLED OVER THE BURIED PIPE WILL BE COMPACTED BACK TO ORIGINAL GRADE. ANY STABILIZED CONSTRUCTION ENTRANCES TO BE INSTALLED WITHIN THE FLOODPLAIN SHALL BE INSTALLED BY REMOVING EXISTING MATERIAL TO A DEPTH SUITABLE FOR INSTALLING THE ENTRANCES SO THAT THE TOP OF THE GRAVEL SURFACE IS AT ORIGINAL GRADE ELEVATIONS. EXCESS MATERIAL ASSOCIATED WITH THIS ACTIVITY SHALL BE PLACED OUTSIDE OF THE FLOODPLAIN LIMITS. NO FILL SHALL BE PLACED WITHIN THE FLOODPLAIN LIMITS ABOVE ORIGINAL ELEVATIONS.



- NOTES:
- CHAIN LINK FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. CHECK AFTER EACH STORM AND REMOVE SEDIMENT.
 - CHAIN LINK FENCE AND GEOTEXTILE SHALL BE EMBEDDED 12 INCHES IN THE GROUND. TRENCH SHALL BE BACKFILLED.
 - FENCE POSTS DO NOT NEED SET IN CONCRETE.

SUPER SILT FENCE DETAIL 1/7
NO SCALE

SYMBOL	DESCRIPTION
	STREAMS
	EXISTING PIPELINE
	PROPOSED PIPELINE
	PROPOSED SUPER SILT FENCE
	PROPOSED SILT FENCE
	PROPOSED COMPOST FILTER SOCK
	PROPOSED WATERBAR
	PERMANENT RIGHT-OF-WAY/ASSESS ROAD LIMITS OF CONSTRUCTION
	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY
	EXISTING FLOODPLAIN
	APPROXIMATE LOCATION OF EXISTING CULVERT
	PROPOSED PIPELINE TRENCH BREAKER
	PROPOSED STONE CONSTRUCTION ENTRANCE
	PROPOSED WORK AREAS (SEE NOTE 13)



MAPPING REFERENCE:
BASE TOPOGRAPHIC MAPPING TAKEN FROM WVGIS SAMB AERIAL MAPPING, DATED 2003.

PRELIMINARY

ISSUE DATE 12/20/2013 MATCHLINE - SEE SHEET 6

PLAN
CAD File No.
JM
Drawn
JWS
Checked
JMS
Approved
1" = 100'
Scale:
DEC 2013
Date:
13-0456
Project No.

POTESTA
ENGINEERS AND ENVIRONMENTAL CONSULTANTS
7015 MacArthur Ave. SE, Chesapeake, VA 23034
TEL: 800-342-1400 FAX: (804) 543-9031
E-Mail Address: potesta@potesta.com

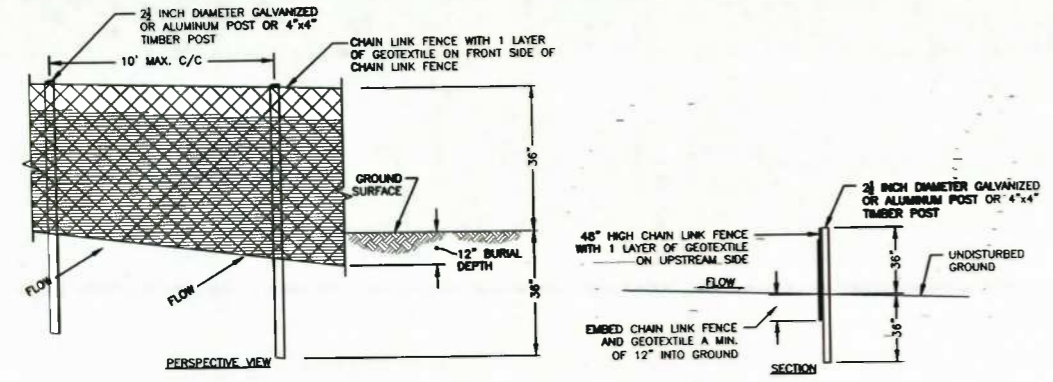
EQT GATHERING, LLC
115 PROFESSIONAL PLACE
BRIDGEPORT, WEST VIRGINIA

SITE PLAN
EQT MOSA 5015 GATHERING LINE
EROSION & SEDIMENT CONTROL PLAN
DODDRIDGE COUNTY, WEST VIRGINIA

7
Drawing No.

No.	Date	Revision

-PLAN
 CAD File No.
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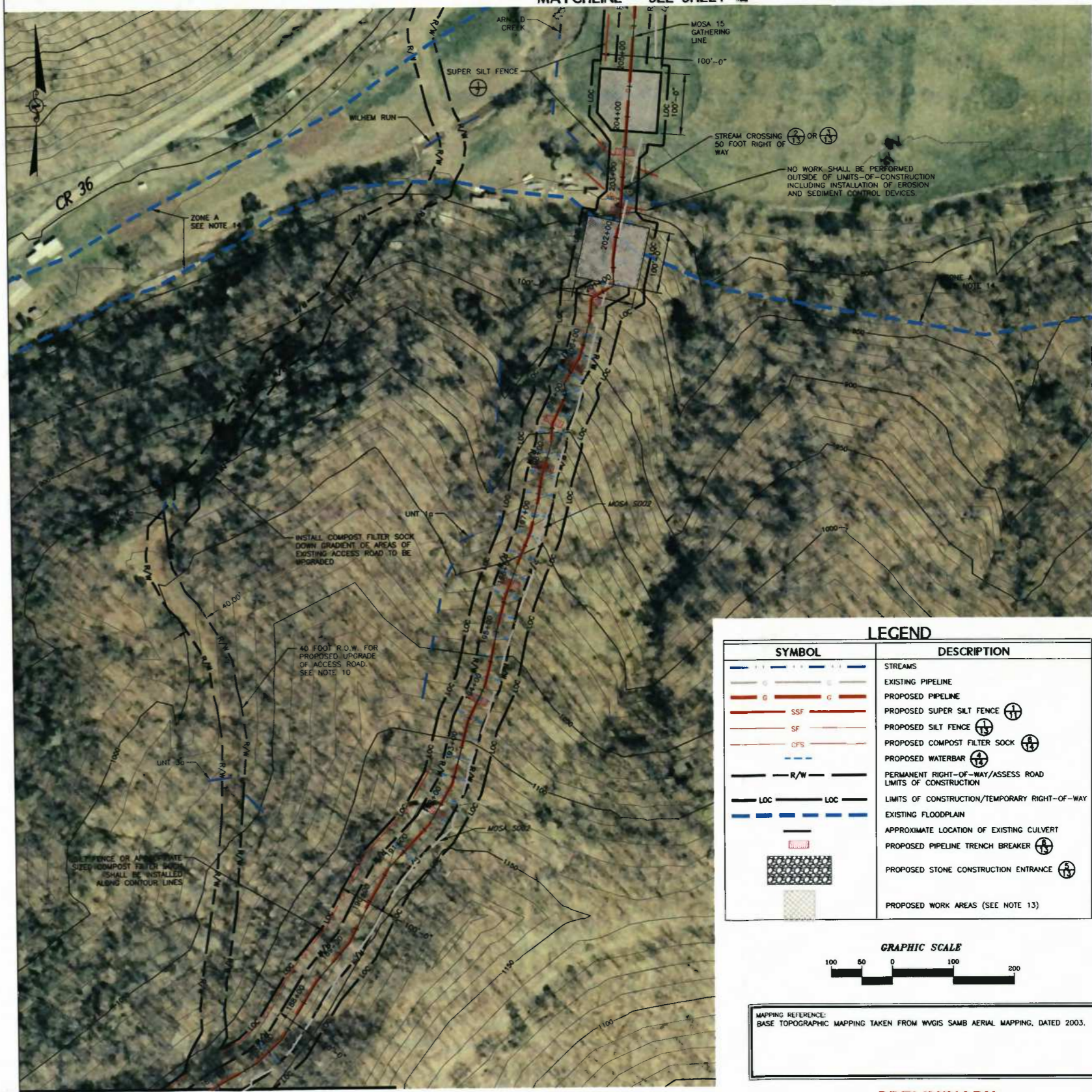
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SUPER SILT FENCE DETAIL (Symbol)
NO SCALE

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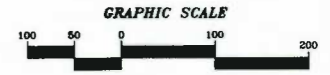
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LEGEND

SYMBOL	DESCRIPTION
(Blue dashed line)	STREAMS
(Red dashed line)	EXISTING PIPELINE
(Red solid line)	PROPOSED PIPELINE
(Red line with cross-hatch)	PROPOSED SUPER SILT FENCE (Symbol)
(Red line with vertical lines)	PROPOSED SILT FENCE (Symbol)
(Red line with horizontal lines)	PROPOSED COMPOST FILTER SOCK (Symbol)
(Red line with diagonal lines)	PROPOSED WATERBAR (Symbol)
(Black line with cross-hatch)	PERMANENT RIGHT-OF-WAY/ASSESS ROAD LIMITS OF CONSTRUCTION
(Black line with vertical lines)	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY
(Black line with horizontal lines)	APPROXIMATE LOCATION OF EXISTING CULVERT
(Black line with diagonal lines)	PROPOSED PIPELINE TRENCH BREAKER (Symbol)
(Black line with cross-hatch)	PROPOSED STONE CONSTRUCTION ENTRANCE (Symbol)
(Red shaded area)	PROPOSED WORK AREAS (SEE NOTE 13)



MAPPING REFERENCE:
BASE TOPOGRAPHIC MAPPING TAKEN FROM WGIS S&MB AERIAL MAPPING, DATED 2003.

MATCHLINE - SEE SHEET 10

MATCHLINE - SEE SHEET 12

PRELIMINARY

ISSUE DATE 12/20/2013

POTESTA & ASSOCIATES, INC.
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 7012 Macomber Ave. SE, Charleston, WV 25304
 TEL: (304) 342-1400 FAX: (304) 343-9031
 E-Mail: Address: potesta@potesta.com

POTESTA

Client
 EQT GATHERING, LLC
 115 PROFESSIONAL PLACE
 BRIDGEPORT, WEST VIRGINIA

Title
 SITE PLAN
 EQT MOSA 5015 GATHERING LINE
 EROSION & SEDIMENT CONTROL PLAN
 DODDRIDGE COUNTY, WEST VIRGINIA

11
 Drawing No.

DATE: 12/20/13
 DRAWN BY: JWS
 CHECKED BY: JMS
 APPROVED BY: JMS
 PROJECT NO: 13-0456

No.	Date	Revision

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POTESTA

ISSUE DATE 12/20/2013
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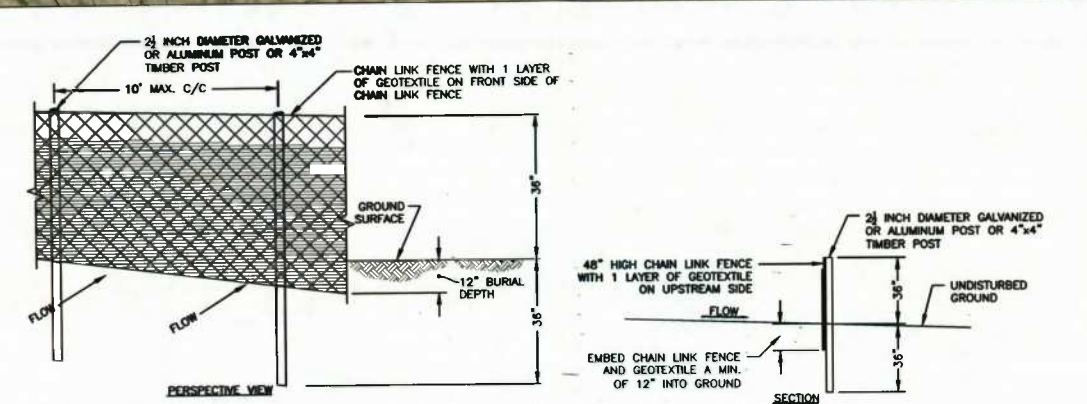
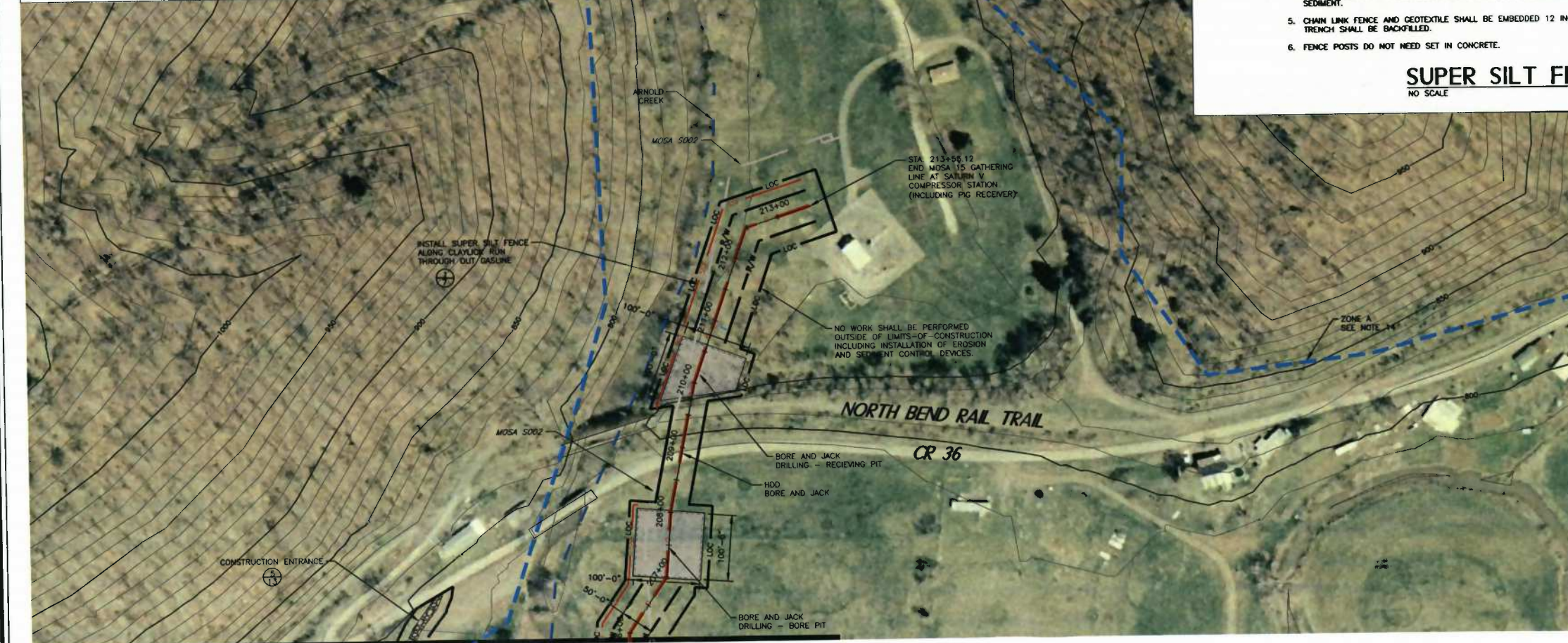
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SITE PLAN
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Title
12
Drawing No.

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 - 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 RESEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
 - EROSION & SEDIMENT CONTROLS SHALL BE INSTALLED IN LOCATIONS DOWN SLOPE FROM THE DISTURBED AREAS AS A FIRST MEASURE OF CONSTRUCTION. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. DAMAGED, DECOMPOSED OR OTHERWISE INEFFECTIVE SILT FENCE SHALL BE REPLACED. SEDIMENT DEPOSITS SHOULD BE REMOVED AS REQUIRED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF OF THE BARRIER HEIGHT. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER NEEDED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE AND STABILIZED. CONTRACTOR MAY USE COMPOST FILTER SOCKS AS AN ALTERNATIVE TO SILT FENCE.
 - DEVICES LISTED HEREIN ARE CONSIDERED MINIMUM EROSION AND SEDIMENT CONTROLS. ADDITIONAL CONTROL MEASURES MAY BE NECESSARY DUE TO CONTRACTOR PHASING OR OTHER UNFORESEEN CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL MEASURES IN ADDITION TO THOSE SHOWN, AS NEEDED, IN ORDER TO CONTROL EROSION AND CONTAIN SEDIMENT ON SITE.
 - THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING PUBLIC ROADS IN A CLEAN, DUST AND MUD FREE CONDITION AT THE SITE.
 - ALL SILT FENCE SHALL BE INSTALLED ALONG THE CONTOURS, PERPENDICULAR TO THE FLOW OF WATER. SEE DETAIL ON DRAWING NO. 13.
 - WATERBARS SHOWN ARE FOR PRESENTATION AND ARE NOT SHOWN IN THE ACTUAL PROPOSED LOCATIONS. A DETAIL OF THE PROPOSED WATERBAR IS SHOWN ON DRAWING NO. 14. WATERBARS SHALL BE INSTALLED ALONG THE ACCESS ROADS AND DISTURBED PORTIONS OF THE PIPELINE RIGHT-OF-WAY AT THE FOLLOWING SPACING:

ROAD GRADE (%)	DISTANCE BETWEEN WATERBARS (FT.)
1	400
2	250
5	135
10	80
15	60
20	45
30	35

NOTE: ROADS THAT ARE COVERED WITH STONE MAY NOT REQUIRE WATERBARS.
 - PROPOSED UPGRADES TO EXISTING ACCESS ROADS SHALL INCLUDE MINOR GRADING, EXTENDING OF EXISTING CULVERTS WHERE APPLICABLE AND PLACEMENT OF AGGREGATE. COMPOST FILTER SOCK SHALL BE INSTALLED DOWN GRADIENT PRIOR TO EARTH DISTURBANCE ACTIVITIES ASSOCIATED WITH THE ACCESS ROAD UPGRADES.
 - TRENCH BREAKERS AND OTHER CONTROLS SHALL BE USED AT THE LOCATIONS SHOWN ON THE DRAWINGS AND AT ALL STREAM CROSSINGS WHERE FLOWING WATER IS PRESENT. CONTRACTOR SHALL SELECT ONE OF THE TWO STREAM CROSSING DETAILS SHOWN ON DRAWING NO. 13 BASED ON FIELD CONDITIONS.
 - PIPELINE TRENCH BREAKERS MUST BE INSTALLED WHEN CROSSING STREAMS, WETLANDS, OR OTHER WATER BODIES. PLUGS SHOULD BE PLACED ON BOTH SIDES OF THE CROSSING. SEE "PIPELINE TRENCH BREAKER INSTALLATION DETAIL" ON DRAWING NO. 13.
 - WORK AREAS WILL BE USED TO LAYOUT AND ASSEMBLE GAS LINE FIXTURES. MINIMAL EARTH DISTURBANCE IS EXPECTED. HOWEVER, EROSION AND SEDIMENT CONTROL WILL BE INSTALLED AS IF THE ENTIRE AREA WILL BE DISTURBED. DISTURBED AREAS WITHIN THE WORK AREAS WILL BE VEGETATED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN AND S.M.P.P.P.
 - BASED ON INFORMATION PRESENTED ON THE SITE FIRM, THE PROJECT IS LOCATED WITHIN FEMA FLOOD ZONE A, WHICH IS THE REGULATORY FLOODPLAIN ASSOCIATED WITH THE BASE FLOOD (1 PERCENT ANNUAL CHANCE FLOOD EVENT), COMMONLY REFERRED TO AS THE 100-YEAR FLOODPLAIN. FLOOD ZONE A INDICATES THAT THE LIMITS OF THE FLOODPLAIN ARE APPROXIMATE, AS SUCH, BASE FLOOD ELEVATIONS (BFEs) HAVE NOT BEEN PREVIOUSLY ESTABLISHED BY FEMA. ALL WORK ASSOCIATED WITH THE PROPOSED PROJECT WITHIN THE LIMITS OF THE FLOODPLAIN, BACKFILL BEING INSTALLED OVER THE BURIED PIPE WILL BE COMPACTED BACK TO ORIGINAL FOLLOWING. NO PERMANENT ABOVE GROUND STRUCTURES ARE TO BE CONSTRUCTED WITHIN THE FLOODPLAIN. BACKFILL BEING INSTALLED OVER THE BURIED PIPE WILL BE COMPACTED BACK TO ORIGINAL GRADE. ANY STABILIZED CONSTRUCTION ENTRANCES TO BE INSTALLED WITHIN THE FLOODPLAIN SHALL BE INSTALLED BY REMOVING EXISTING MATERIAL TO A DEPTH SUITABLE FOR INSTALLING THE ENTRANCES SO THAT THE TOP OF THE GRAVEL SURFACE IS AT ORIGINAL GRADE ELEVATIONS. EXCESS MATERIAL ASSOCIATED WITH THIS ACTIVITY SHALL BE PLACED OUTSIDE OF THE FLOODPLAIN LIMITS. NO FILL SHALL BE PLACED WITHIN THE FLOODPLAIN LIMITS ABOVE ORIGINAL ELEVATIONS.

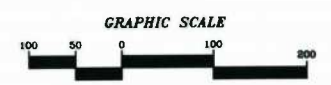


- NOTES:**
- CHAIN LINK FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. CHECK AFTER EACH STORM AND REMOVE SEDIMENT.
 - CHAIN LINK FENCE AND GEOTEXTILE SHALL BE EMBEDDED 12 INCHES IN THE GROUND. TRENCH SHALL BE BACKFILLED.
 - FENCE POSTS DO NOT NEED SET IN CONCRETE.

SUPER SILT FENCE DETAIL 1/12
NO SCALE

LEGEND

SYMBOL	DESCRIPTION
--- (dashed blue)	STREAMS
--- (dashed black)	EXISTING PIPELINE
--- (dashed red)	PROPOSED PIPELINE
--- (dashed orange)	PROPOSED SUPER SILT FENCE 1/12
--- (dashed yellow)	PROPOSED SILT FENCE 1/13
--- (dashed green)	PROPOSED COMPOST FILTER SOCK 1/14
--- (dashed purple)	PROPOSED WATERBAR 1/15
--- (dashed brown)	PERMANENT RIGHT-OF-WAY/ASSESS ROAD LIMITS OF CONSTRUCTION
--- (dashed grey)	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY
--- (dashed light blue)	EXISTING FLOODPLAIN
--- (dashed light green)	APPROXIMATE LOCATION OF EXISTING CULVERT
--- (dashed light purple)	PROPOSED PIPELINE TRENCH BREAKER 1/16
--- (dashed light orange)	PROPOSED STONE CONSTRUCTION ENTRANCE 1/17
--- (dashed light yellow)	PROPOSED WORK AREAS (SEE NOTE 13)



MAPPING REFERENCE:
BASE TOPOGRAPHIC MAPPING TAKEN FROM WVGIS SAMB AERIAL MAPPING, DATED 2003.

PRELIMINARY

MATCHLINE - SEE SHEET 11

XREF PLAN: 13-0456-001, 13-0456-002, 13-0456-003, 13-0456-004, 13-0456-005, 13-0456-006, 13-0456-007, 13-0456-008, 13-0456-009, 13-0456-010, 13-0456-011, 13-0456-012, 13-0456-013, 13-0456-014, 13-0456-015, 13-0456-016, 13-0456-017, 13-0456-018, 13-0456-019, 13-0456-020, 13-0456-021, 13-0456-022, 13-0456-023, 13-0456-024, 13-0456-025, 13-0456-026, 13-0456-027, 13-0456-028, 13-0456-029, 13-0456-030, 13-0456-031, 13-0456-032, 13-0456-033, 13-0456-034, 13-0456-035, 13-0456-036, 13-0456-037, 13-0456-038, 13-0456-039, 13-0456-040, 13-0456-041, 13-0456-042, 13-0456-043, 13-0456-044, 13-0456-045, 13-0456-046, 13-0456-047, 13-0456-048, 13-0456-049, 13-0456-050, 13-0456-051, 13-0456-052, 13-0456-053, 13-0456-054, 13-0456-055, 13-0456-056, 13-0456-057, 13-0456-058, 13-0456-059, 13-0456-060, 13-0456-061, 13-0456-062, 13-0456-063, 13-0456-064, 13-0456-065, 13-0456-066, 13-0456-067, 13-0456-068, 13-0456-069, 13-0456-070, 13-0456-071, 13-0456-072, 13-0456-073, 13-0456-074, 13-0456-075, 13-0456-076, 13-0456-077, 13-0456-078, 13-0456-079, 13-0456-080, 13-0456-081, 13-0456-082, 13-0456-083, 13-0456-084, 13-0456-085, 13-0456-086, 13-0456-087, 13-0456-088, 13-0456-089, 13-0456-090, 13-0456-091, 13-0456-092, 13-0456-093, 13-0456-094, 13-0456-095, 13-0456-096, 13-0456-097, 13-0456-098, 13-0456-099, 13-0456-100, 13-0456-101, 13-0456-102, 13-0456-103, 13-0456-104, 13-0456-105, 13-0456-106, 13-0456-107, 13-0456-108, 13-0456-109, 13-0456-110, 13-0456-111, 13-0456-112, 13-0456-113, 13-0456-114, 13-0456-115, 13-0456-116, 13-0456-117, 13-0456-118, 13-0456-119, 13-0456-120, 13-0456-121, 13-0456-122, 13-0456-123, 13-0456-124, 13-0456-125, 13-0456-126, 13-0456-127, 13-0456-128, 13-0456-129, 13-0456-130, 13-0456-131, 13-0456-132, 13-0456-133, 13-0456-134, 13-0456-135, 13-0456-136, 13-0456-137, 13-0456-138, 13-0456-139, 13-0456-140, 13-0456-141, 13-0456-142, 13-0456-143, 13-0456-144, 13-0456-145, 13-0456-146, 13-0456-147, 13-0456-148, 13-0456-149, 13-0456-150, 13-0456-151, 13-0456-152, 13-0456-153, 13-0456-154, 13-0456-155, 13-0456-156, 13-0456-157, 13-0456-158, 13-0456-159, 13-0456-160, 13-0456-161, 13-0456-162, 13-0456-163, 13-0456-164, 13-0456-165, 13-0456-166, 13-0456-167, 13-0456-168, 13-0456-169, 13-0456-170, 13-0456-171, 13-0456-172, 13-0456-173, 13-0456-174, 13-0456-175, 13-0456-176, 13-0456-177, 13-0456-178, 13-0456-179, 13-0456-180, 13-0456-181, 13-0456-182, 13-0456-183, 13-0456-184, 13-0456-185, 13-0456-186, 13-0456-187, 13-0456-188, 13-0456-189, 13-0456-190, 13-0456-191, 13-0456-192, 13-0456-193, 13-0456-194, 13-0456-195, 13-0456-196, 13-0456-197, 13-0456-198, 13-0456-199, 13-0456-200.

Search Mail Search Web

Lorena

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Navigation icons: back, forward, delete, move, spam, more, collapse all

0101-13-0456-002 MOSA 15 (2)

Jhonattan Schloeter Today at 9:46 AM
To Me, Jarrett M. Smith, Beth Burdette, and 1 More...

Hello Katy, bellow please find a new breakdown of the cost at the floodplain crossings per our conversation earlier today. The previous application check fee was for \$2,597.78, the new application fee is \$3,052.22, we will be sending a check for the difference = \$457.44 to avoid voiding checks and make it easier on the accounting department.

Crossing #	Contractor	Material
1	\$81,817	\$17,724= \$99,541
2	\$122,726	\$26,586=\$149,312
3	\$215,012	\$46,578= \$261,590 \$510,443

If you need anything else please feel free to call or email me.

Thanks
Jhonattan W. Schloeter
Engineer
Potesta & Associates, Inc.
7012 MacCorkle Avenue, SE
Charleston, West Virginia 25304
(304) 342-1400 - Phone
(304) 343-9031 - Fax

This electronic communication and its attachments contain confidential information. The recommendations and/or design data included herein are provided as a matter of convenience and should not be used for final design or ultimate decision making. Rely only on the final hardcopy materials bearing the consultant's original signature and seal. If you have received this information in error, please notify the sender immediately.

Reply, Reply All or Forward | More

Jhonattan Schloeter Today at 10:09 AM
To Me, 'Landfried, Megan', Jarrett M. Smith

Hello Katy, The correct difference is \$454.44 I apologize for the mistake.

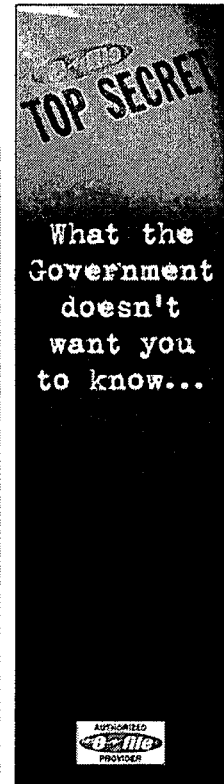
Jhonattan W. Schloeter
Engineer
Potesta & Associates, Inc.
7012 MacCorkle Avenue, SE
Charleston, West Virginia 25304
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Click to reply all





Dan Wellings <wellingsd8@gmail.com>

EQT MOSA S015 GATHERING LINE FLOODPLAIN APP.

1 message

Dan Wellings <wellingsd8@gmail.com>

Tue, Feb 4, 2014 at 9:42 AM

To: "Jarrett M. Smith" <JMSmith@potesta.com>

Jarrett,

I need an itemized breakdown of total construction costs of POTESTA

Project # 0101-0456-001 for EQT.

It isn't good enough to just plug in \$419,555 on the application.

I need to see how you arrived at that amount.

Just e-mail me the figures.

On another note I signed off on the floodplain application for EQT OXF 156 Well Site yesterday and it should be in the mail. Not in floodplain. No permit needed.

Dan Wellings, PS

Doddridge County Floodplain Manager

1/2/14

February 12, 2014

Dear Doddridge County Clerk's Office;

In response to the certified letter Mark and I received on February 8, 2014, dated February 4, 2014 concerning EQT's application for a permit to develop land in a floodplain adjacent to our property, I am writing to record a few concerns we have.

First, I have accessed the WV Flood Tool Maps and have printed and enclosed a copy of the area of subject. I would propose to you that this map is incomplete. While the area highlighted in red as per the website does indeed flood, there is really nothing there of worth on the Sunnyside (South) of Rt. 50 up to my home. But please take note of the areas I have highlighted in yellow, showing the neighborhood further past our home and that I can assure you floods with very little rainfall. The Clay Lick is a catch all for the runoff of the surrounding hills in our neighborhood and floods quite easily, thus my neighbors have indeed been subjected to many flood cleanups, not only their yards and around their homes but in their homes as well. Most of the residents upstream are elderly and some are disabled. One neighbor even lost pets that became trapped in kennels in his back yard by floodwaters.

Second, Mark and I signed a right of way lease agreement with EQT two years ago in January (2012). I will admit that one of the ensuing issues we have with EQT was because Mark and I did not get every detail we required in writing. Specifically, that nothing be sticking up above the ground. We simply had a verbal assurance from the representative of Land Management, and that is to our discredit. When the work was complete, there was and still is a tie in location in our field, with several pipes and gauges sticking up just mere feet away from the property lines between us and the heirs to which the bulk of the business is being conducted with EQT.

We have been in conflict with EQT Production since the summer/fall of 2012 when their work was complete. We have been insisting that they move their tie in equipment and more importantly, that they clean up the mess they left us with, a massive swamp in our field. It is a violation of their contract agreement, Page 5, Special Conditions, item 5 and 6. I have also enclosed pictures of that mess. No one is responding.

So my writing this letter is two fold. To record the fact that there are additional flooding potentials not addressed on the mapping by FEMA. The upper neighborhood of Sunnyside has not been marked as flood prone. Secondly to state that EQT has not been honest and forthcoming in their dealings with Mark and I. So regardless of what their plans are for development in this proposed floodplain, whether it be minimal or significant, I do not trust that they can be held simply and exclusively to the plans they have put forth in their permit requests. It would take very little to disrupt the flow of a very winding, normally small stream, to cause massive problems for the residents of this community.

Please record my letter as rebuttal to the EQT Permit for floodplain development, consider my remarks thoroughly, and proceed with caution as you consider whether to grant their request. In these matters there is so much more to consider than the progress and financial gain of a big company like EQT. Mark and I learned a hard lesson, and it is my hope to prevent our neighbors and friends from suffering the same misfortune.

Most Sincerely,



Clara J. McGill

211 Sunnyside Rd.
West Union, WV 26456

(304)873-1917

clara.mcgill@gmail.com

Mail to
Megan
EQT Gathering LLC
115 Professional Place
Bridgeport WV
26330
2/14/14 - mailed copies

MOSA SO15 - Claylick Run Crossing



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 1/23/2014

Tie in is incorrect

	Location of the mouse click		Cross Section Line
	Approximate Study (Zone A)		Base Flood Elevation Line
	Detailed Study (Zone AE, AH, AO)		DFIRM Panel (Map) Index
	Floodway		
	Flood Water Depth (HEC-RAS)		

User Notes:

Tie in actually here

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.

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

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain

Flood Zone: A

Advisory Flood Height: About 808 feet

Water Depth: About 1.03 feet (Source: HEC_RAS)

Elevation: About 806 feet

Location (long, lat): 80.818280 W, 39.276897 N

Location (UTM 17N): (515674, 4347521)

FEMA Issued Flood Map: 54017C0115C

Contacts: Doddridge County

CRS Information: No CRS information available

Flood Profile: No Profile

HEC-RAS Model: No Model

Parcel Number:

February 17, 2014

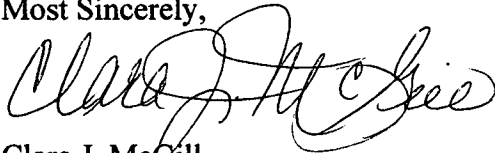
Dear Doddridge County Clerks Office and County Commission;

In further discussion of my letter dated February 12, 2014 I would like to add an additional map that I found enclosed with documents I had copied from the Clerks Office upon delivery of my first letter. Documents I had copied of EQT's plans for a project to be completed with in the floodplain area near my home. I do not claim to be knowledgeable of EQT's operations or even claim that I know how to read and understand their maps with certainty. What I do claim and understand is EQT's methods of deceit and dishonesty in our dealings with them since 2012.

With that being said, it is my opinion that in looking at the map of their proposed project, I believe them to have submitted an inaccurate map for the permit they request. If I am reading their tie in location for the project as marked on my map I can assure you it is not there at this current time. The actual tie in location is, as marked on my map, across another creek and on my land in a swampy wetland area. An area, and the actual tie in apparatus itself that has been a source of contention between EQT and us for 2 years now.

So please review all the necessary papers and submissions, come out to our house and look, we will escort you ourselves to the field and show you, and then proceed accordingly, and might I suggest, with caution.

Most Sincerely,



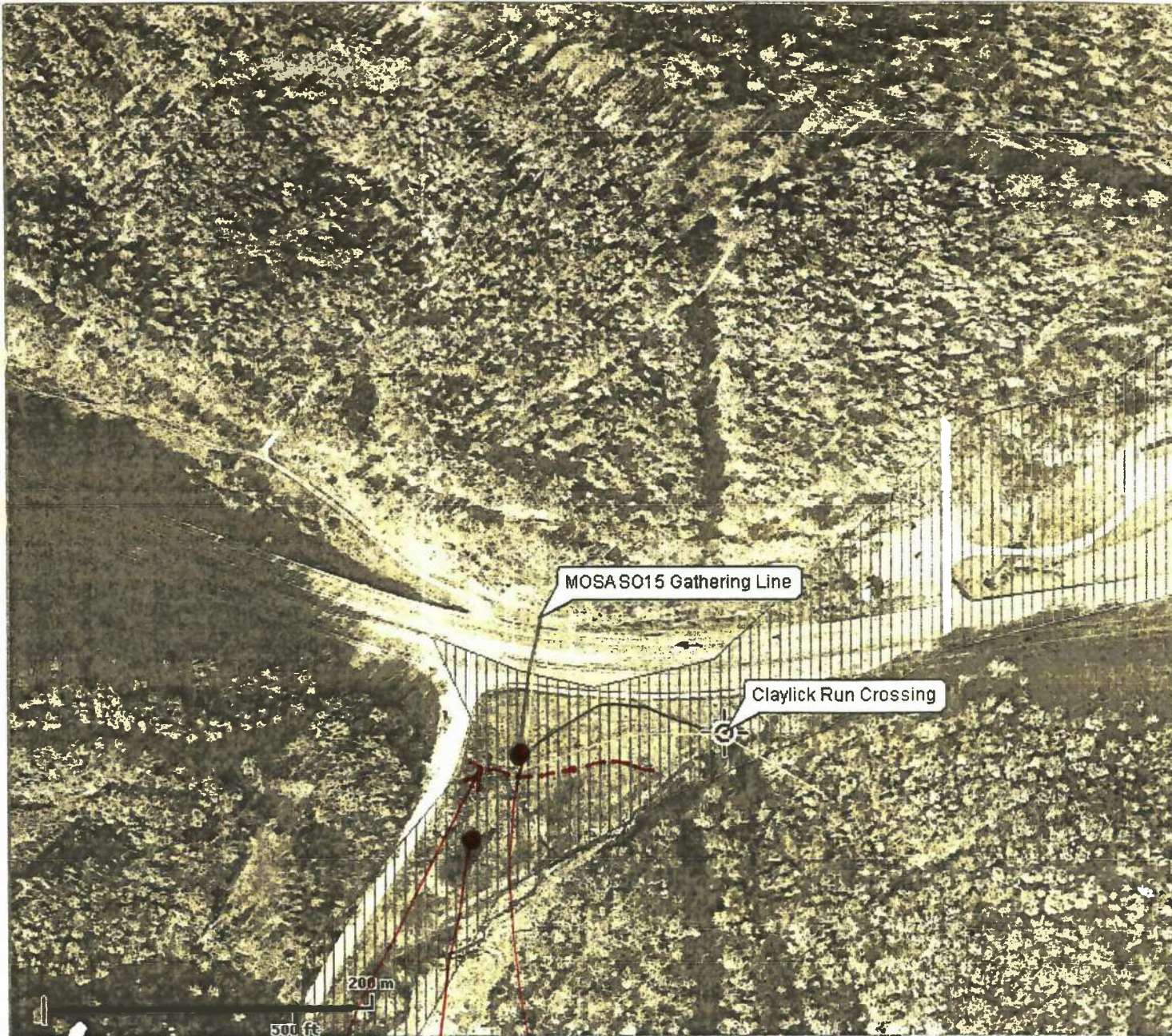
Clara J. McGill

211 Sunnyside Rd.
West Union, WV 26456

(304)873-1917

clara.mcgill@gmail.com

Inaccurate map submitted by EPT for floodplain permit.
MOSA SO15 - Claylick Run Crossing



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

where they say they will tie in. Map created on 1/23/201

- Location of the mouse click
- Approximate Study (Zone A)
- Detailed Study (Zone AE, AH, AO)
- Floodway
- Flood Water Depth (HEC-RAS)
- Cross Section Line
- Base Flood Elevation Line
- DFIRM Panel (Map) Index

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.

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

actual tie in location (already present)
another creek that must be crossed to complete project

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain.
Flood Zone: A
Advisory Flood Height: About 808 feet
Water Depth: About 1.03 feet (Source: HEC_RA
Elevation: About 806 feet
Location (long, lat): 80.818280 W, 39.276897 N
Location (UTM 17N): (515674, 4347521)
FEMA Issued Flood Map: 54017C0115C
Contacts: Doddridge County
CRS Information: No CRS information available
Flood Profile: No Profile
HEC-RAS Model: No Model
Parcel Number:

WV Flood Map



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

Map Created on 2/12/2014



Location of the mouse click



Flood Hazard Zone
(1% annual chance floodplain)

my home

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain.

Elevation:

Location (long, lat): 80.878501 W, 39.635755 N

Location (UTM 17N):

FEMA Issued Flood Map: 54103C0038C

Contacts: Wetzel County

CRS Information: No CRS information available

Parcel Number:

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.

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



This is the swamp EQT left us with in 2012.



Engineers and Environmental Consultants

7012 MacCorkle Avenue, SE, Charleston, WV 25304 • (304)342-1400 • FAX (304)343-9031; www.potesta.com

February 20, 2014

Doddridge County Floodplain Coordinator
Doddridge County Commission
118 East Court Street
West Union, West Virginia 26456

FILED
2014 FEB 25 PM 1:32
BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WV

RE: Floodplain Permit Application – Response to Comments received from Mrs. McGill
EQT Gathering, LLC
EQT MOSA SO15 Pipeline Project
Doddridge County, West Virginia
POTESTA Project No. 0101-13-0456-001

Dear Floodplain Coordinator:

POTESTA & Associates, Inc., on behalf of EQT Gathering, LLC, has prepared a response to the letter written by Mrs. Clara McGill on February 12, 2014 which included concerns about the proposed MOSA SO15 buried pipeline project (Project). Mrs. McGill wrote in regards to the floodplain limits along Claylick Run. A section of the MOSA-S015 Pipeline Project is located at the intersection of Sunnyside Road and US Route 50 adjacent to Mrs. McGill's Property. From approximate centerline stations 112+10 to 119+00, the Project is located within FEMA Flood Zone A. Flood Zone A is the regulatory floodplain associated with the Base Flood (1 percent annual chance flood event), commonly referred to as the 100-year floodplain and indicates that the limits of the floodplain are approximate; as such, Base Flood Elevations (BFEs) have not been previously established by FEMA. Work within the floodplain associated with the Project shall include installation of a buried pipeline and associated work areas. The work areas for this project are used to layout and assemble gas line fixture, are associated with minimal disturbance, and are temporary. All structures associated with the Project within the limits of the floodplain will be buried. The Project area will be returned to precondition contours and no permanent aboveground structures are to be constructed within the floodplain. The construction proposed at this location is not anticipated to impact the floodplain or Mrs. McGill's property.

POTESTA & ASSOCIATES, INC.

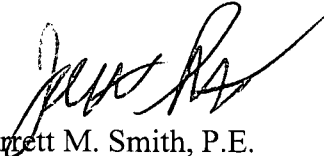
Charleston, West Virginia ° Morgantown, West Virginia ° Winchester, Virginia

Floodplain Coordinator
February 20, 2014
Page 2

If you have any questions, please feel free to contact me at (304) 342-1400 or jmsmith@potesta.com, or Megan Landfried (EQT) at (304) 848-0061.

Sincerely,

POTESTA & ASSOCIATES, INC.



Jarrett M. Smith, P.E.
Senior Engineer

JMS/clr

c: Ms. Megan Landfried – EQT (via email)



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 Upon
Oath That the Accompanying Legal Notice
Entitled:

Floodplain Permit
EQ + - MOSA - 5015
14-119

was published in said paper for ... *2*

successive weeks beginning with the issue
of ... *February 11th* ... 2014 and
ending with the issue of

... *February 18th* ... 2014 and
that said notice contains ... *189*

WORD SPACE at ... *115* ... cents a word
amounts to the sum of \$... *21.73*

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

\$... *16.29*

and each publication thereafter
\$... *38.02*

TOTAL

EDITOR
Virginia Nicholson

SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE ... *20th* ... DAY
OF ... *February* ... 2014

NOTARY PUBLIC
Laura J. Adams

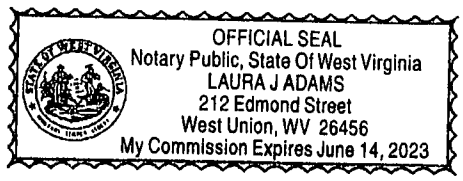
8 FEBRUARY 11, 2014
Legal Advertisement

LEGAL ADVERTISEMENT
Doddridge County
Floodplain Permit Application

Please take notice that on the 4th day of February, 2014
EQ+ GATHERING LLC, MOSA - 5015 GATHERING
LINE #14-119, filed an application for a Floodplain
Permit to develop land located at or about: SURFACE
OWNERS: ELEANOR MEYER & WV RAILROAD
MAINTAIN AUTHORITY, WEST UNION & CENTRAL
DISTRICT: W/B 10/526-D/B 216/166 T/M 8-146 & 17-
94

The Application 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 February
24, 2014.

Delivered to the
Clerk of the County Court
118 E. Court Street, West Union, WV 26456
Beth A. Rogers, Doddridge County Clerk
Dan Wellings, Doddridge County Flood Plain Manager
80 222 3000 ext. 20032 1-2-11-2xb





Engineers and Environmental Consultants

7012 MacCorkle Avenue, SE, Charleston, WV 25304 • (304)342-1400 • FAX (304)343-9031; www.potesta.com

January 27, 2014

Mr. Dan Wellings
Doddridge County Floodplain Manager
Doddridge County Commission
118 East Court Street
West Union, West Virginia 26456

RE: Hydraulic Analysis Results along Arnolds Creek
EQT Proposed Temporary Timber Mat
Doddridge County, West Virginia
Potesta Project No. 0101-13-0456-001

Dear Mr. Wellings:

Potesta & Associates, Inc. (POTESTA) is pleased to present the findings of a hydraulic analysis conducted on Arnolds Creek located in Doddridge County, West Virginia. This work was completed on behalf of EQT Gathering, LLC (EQT). The purpose of this study was to estimate the Base Flood Elevation (BFE) (one percent annual) at the site and determine the potential increase in BFEs resulting from the placement of temporary timber mat crossing (Crossing) for transporting of equipment and supplies across Arnolds Creek for the MOSA SO15 Gathering Line project.

BACKGROUND

The project area is proposed for construction activities associated with the MOSA SO15 Gathering Line project early this year. EQT is proposing to construct the Crossing to provide access across Arnolds Creek to better facilitate construction activities of the natural gas pipelines. The proposed Crossing is located along Arnolds Creek just south of the intersection of CR-11 and US Route 50 in Doddridge County, West Virginia. Approximate coordinates of the crossing are latitude 39°16'35.16"N and longitude 80°48'44.18"W. The location of the project site is shown on WV Flood Map in Appendix A.

The project site is located in Flood Zone A, as shown on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Panel 54017C0120C, dated October 4, 2011. Flood Zone A represents the 100-year floodplain and is regulated by the Doddridge County Planning Commission (DCPC). Flood Zone A has been determined by FEMA by approximate methods, in that BFEs have not previously been determined. Because

POTESTA & ASSOCIATES, INC.

Charleston, West Virginia ° Morgantown, West Virginia ° Winchester, Virginia

hydraulic analyses were not performed for Zone A, the Special Flood Hazard Area (SFHA) shown on the FIRM have been approximated graphically based on available topographic mapping and do not represent actual elevations. A copy of the FIRM is included in Appendix B.

MODELING DATA

As stated above, the project site is located in Flood Zone A; as such, previous hydraulic studies of the area have not been prepared by FEMA. POTESA utilized topographic mapping taken from WVGIS SAMB Aerial Mapping (Dated 2003) for generating cross sections for this project. Cross sections extended downstream of the site approximately 959 feet. Cross sections were extended upstream of the site approximately 1,335 feet. The location of these cross sections is indicated on the attached POTESA "Hydraulic Analysis" located in Appendix A.

The USGS regression equation was considered when computing the peak flow rate for the 1 percent annual flood event. This method is further described below.

USGS Regression Equation Method

The regression equation, as outlined in the United States Geological Survey (USGS) report entitled Estimating Magnitude and Frequency of Peak Discharges in Rural, Unregulated, Streams in West Virginia (2000) (U.S. Department of the Interior, 2000), was the first method considered to compute the one-percent annual flow rate for the project site. This method of computing flood discharges is the same used for many of the streams modeled in the FEMA Flood Insurance Studies in West Virginia. The one-percent annual peak flow rate computed using this method was 3,123 cubic feet per second (cfs). Hydrologic calculations are located in Appendix C.

MODELING APPROACH

Two computer models were developed to show the effects of the timber mat crossing. The first model (i.e., existing conditions model) was developed to estimate the base flood elevation of the site. The second model (i.e., proposed conditions model) was developed to determine the increase in base flood elevations resulting from the timber mat crossing. The computer models were run using the 2008 version of HEC-RAS Version 4.0.0.

The following narratives summarize the details of each of the two models.

Existing Conditions Model

The model consists of nine primary cross sections. Geometry for cross sections was obtained using WVGIS SAMB Aerial Mapping (Dated 2003). Geometry for cross sections is summarized in spreadsheets located in Appendix D. The cross sections extend downstream of the site approximately 1,335 feet, and upstream of the site approximately 959 feet. Location and

alignment of the cross sections used for the HEC-RAS computer model are shown on Figure 2 located in Appendix A.

Manning's roughness coefficients, or "n" values for Arnolds Creek were estimated from photographs taken during a site visit. Manning's coefficients used in the model consist of 0.045 for the stream channel and 0.030 for overbank areas.

As shown on Table 1 in Appendix E, the HEC-RAS model resulted in an approximate BFE of 807.10 feet near the project site (cross section 1,315). Approximate BFEs for other cross sections are also shown on Table 1 in Appendix E. A computer generated summary report of the HEC-RAS computations is provided in Appendix F.

Proposed Conditions

The HEC-RAS model for the proposed conditions scenario was modified from the existing conditions model to include the geometry of the proposed timber mat crossing.

When creating the proposed conditions model, the temporary crossing was modeled by adding a bridge section at the approximate location of the proposed crossing (Station 1,335). These dimensions of the timber mat were estimated utilizing dimensions of typical timber mats along with the supporting structures. The proposed deck width is 15 feet and the average cross sectional area of each of the two support piers is approximately 1 foot.

As shown on Table 1 in Appendix E, the BFE at the nearest upstream cross section, 25 feet from the proposed timber mat crossing does not show an increase in the BFE. The next cross section upstream is 174 feet from the proposed timber mat crossing and it will be increased 0.01 feet as a result of construction of the temporary crossing which is the maximum increase in BFE within the study area. A computer generated summary report of the HEC-RAS computations is provided in Appendix F.

SUMMARY OF RESULTS

As summarized in Table 1 located in Appendix E, it was determined that there may be a 0.01 feet increase in 100-year flood elevations resulting from construction of the proposed temporary crossing when comparing the existing conditions and the proposed conditions.

Mr. Dan Wellings
January 27, 2014
Page 4

If you have any questions or require additional information, please do not hesitate to call me at (304) 342-1400 or email me at jmsmith@potesta.com.

Sincerely,

POTESTA & ASSOCIATES, INC.

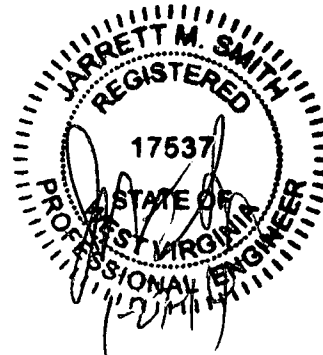


Jarrett M. Smith, P.E.
Senior Engineer

JMS/clr

- Enclosures:
- Appendix A - Drawings
 - Appendix B - Flood Insurance Rate Map (FIRM)
 - Appendix C - One Percent Annual Flow Rate Determination
 - Appendix D - Cross Section Input Data
 - Appendix E - Table 1
 - Appendix F - HEC-RAS Results

c: Ms. Megan Landfried - EQT










APPENDIX A

Figure 1 - WV Flood Map



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

Map Created on 1/17/2014

	Location of the mouse click		K—K Cross Section Line
	Approximate Study (Zone A)		810 Base Flood Elevation Line
	Detailed Study (Zone AE, AH, AO)		DFIRM Panel (Map) Index
	Floodway		
	Flood Water Depth (HEC-RAS)		

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.

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

Flood Hazard Area: Selected site is **WITHIN** the FEMA 100-year floodplain.

Flood Zone: A

Advisory Flood Height: About 807 feet

Water Depth: About 9.96 feet (Source: HEC_RAS)

Elevation: About 798 feet

Location (long, lat): 80.812103 W, 39.276370 N

Location (UTM 17N): (516207, 4347463)

FEMA Issued Flood Map: 54017C0120C

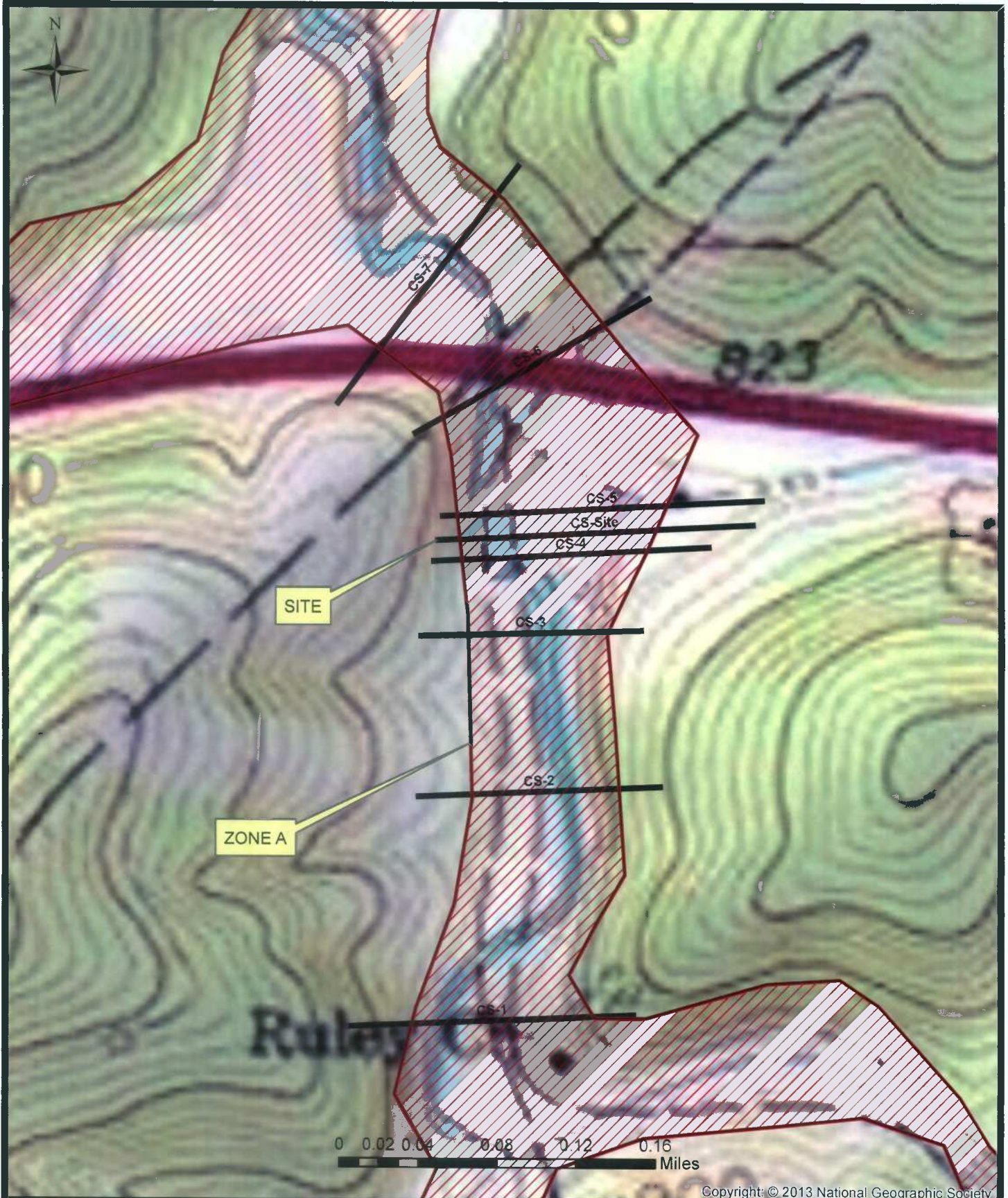
Contacts: Doddridge County

CRS Information: No CRS information available

Flood Profile: **No Profile**

HEC-RAS Model: **No Model**

Parcel Number:



Copyright: © 2013 National Geographic Society



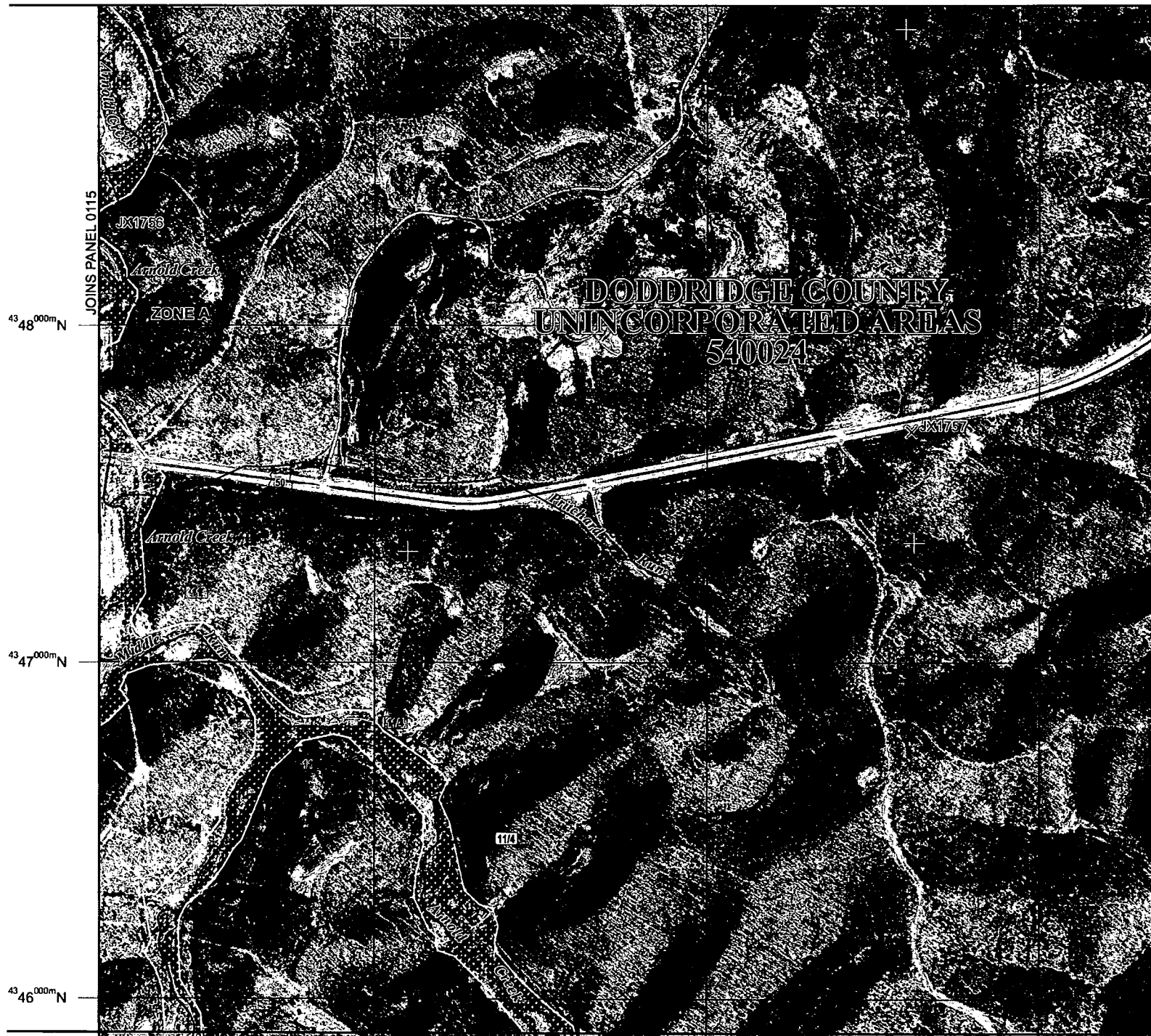
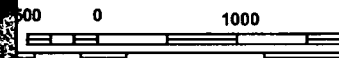
SCALE: AS NOTED - APPROXIMATE
DATE: JANUARY 2014
PROJECT NO.: 13-0456-001
DRAWN: JMS

Title	EQT GATHERING, LLC MOSA SO15 GATHERING LINE TIMBER MAT CROSSING FIGURE 2 HYDRAULIC ANALYSIS DOGGRIDGE CO., WEST VIRGINIA
-------	---

APPENDIX B



MAP SCALE 1" = 1000'



PANEL 0120C

FIRM
FLOOD INSURANCE RATE I
DODDRIDGE COUN'
WEST VIRGINIA
AND INCORPORATED ARI

PANEL 120 OF 325
(SEE MAP INDEX FOR FIRM PANEL I

CONTAINS:

COMMUNITY	NUMBER	PANEL
DODDRIDGE COUNTY	540224	0120
WEST VIRGINIA, TOWN OF	540225	0120

Notice to User: The Map Number sh
ould be used when placing map
Community Number shown above
used on Insurance applications for t
community.



MAP NI
54017C
MAP RE
OCTOBER

Federal Emergency Management

This is an official copy of a portion of the above referenced
was extracted using F-MIT On-Line. This map does not r
or amendments which may have been made subsequent
title block. For the latest product information about Natlo
Program flood maps check the FEMA Flood Map Store a

APPENDIX C



2300 MacCorkle Avenue, SE
 Charleston, WV 25304
 Phone: (304) 342-1400
 Fax: (304) 343-9031

Project Name: EQT MOSA SO15 Gathering Line – Timber Mat Crossing
 Project No.: 0101-13-0456-001 Sheet No. _____ of _____
 Calculated By: J. Smith Date: 1/14/2014
 Checked By: J. Schloeter Date: _____
 Subject: Hydrologic Calculations Scale: N/A

The purpose of these calculations is to estimate the peak runoff for the 1% annual storm event (also referred to as the “100-year flood”) for the proposed EQT Big 176 Bridge project located along North Fork of Fishing Creek in Mobley, Wetzel County, West Virginia.

Method - USGS Regression Equation Method

The regression equation, as outlined in the United States Geological Survey (USGS) report entitled Estimating Magnitude and Frequency of Peak Discharges in Rural, Unregulated, Streams in West Virginia, (2000) (U.S. Department of the Interior, 2000) was the first method considered to compute the one-percent annual flow rate for the project site. This method of computing flood discharges is the same used for the many of the streams modeled in the FEMA Flood Insurance Studies in West Virginia. As shown below, the standard one-percent annual peak flow rate computed using this method was **2,418** cubic feet per second (cfs).

Drainage Area = mi²

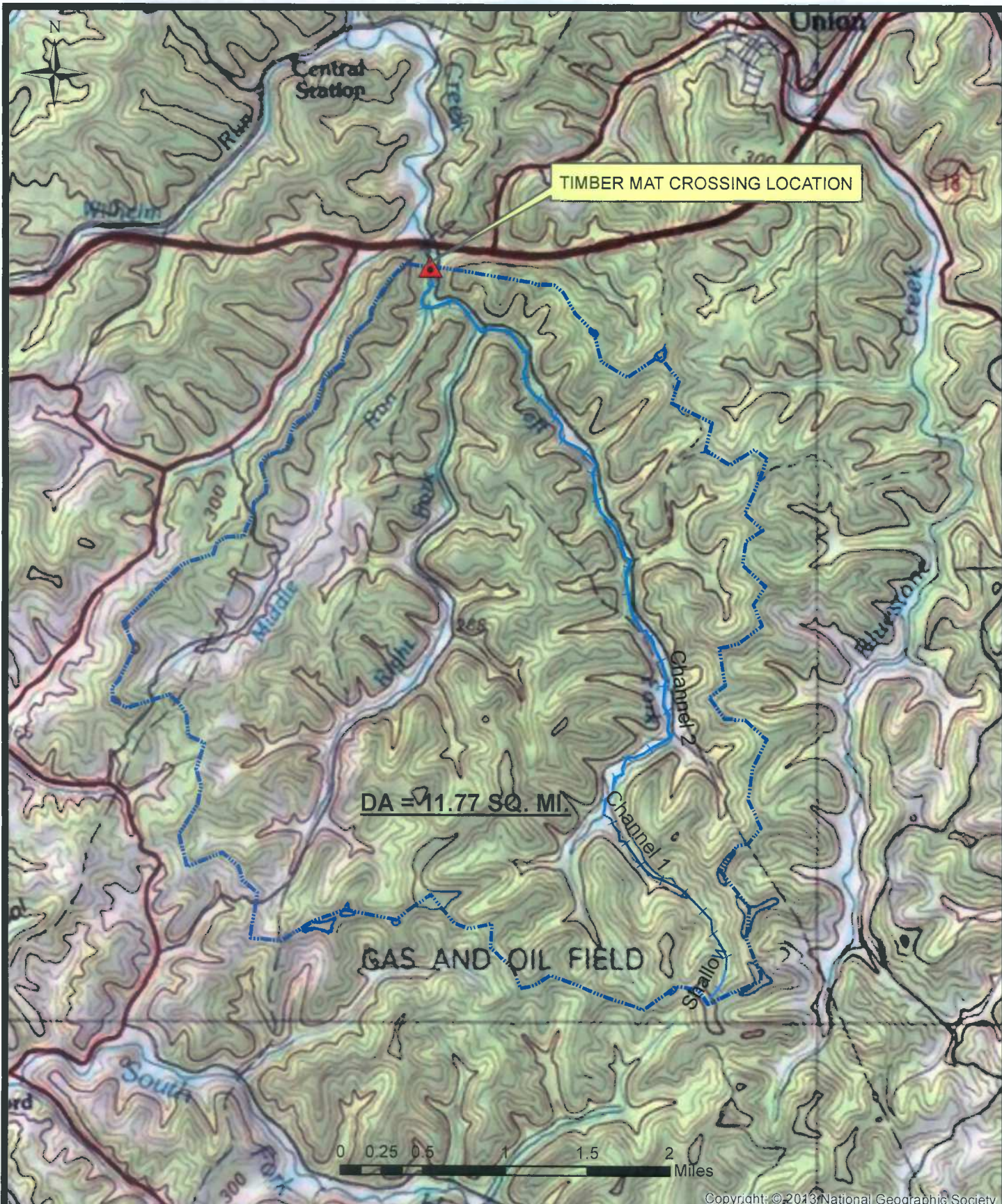
Recurrence Interval, (i)	Discharge (ft ³ /s) for South Region		
	Q _i (cfs)	Q _i + 1SE (cfs)	Q _i + 2SE (cfs)
2-yr	822	1,045	1,867
5-yr	1,325	1,677	3,002
10-yr	1,706	2,161	3,867
25-yr	2,237	2,855	5,092
50-yr	2,666	3,426	6,092
100-yr	3,123	4,051	7,174
200-yr	3,602	4,722	8,324
500-yr	4,284	5,706	9,990

Key: Q = Discharge (cfs)
 1SE = Standard Error of Estimate
 2SE = 2 Standard Errors of Estimate

Notes:

- 1) There is also a negative standard error associated with the mean curves. Only positive values are shown.
- 2) Reference: Estimating Magnitude and Frequency of Peak Discharges for Rural, Unregulated, Streams in West Virginia, U.S. Geological Survey, In cooperation with the West Virginia Department of Transportation Division of Highways. Water-Resources Investigation Report 00-4080
- 3) These estimates are for unregulated, virtually natural streams in West Virginia. This method is applicable for peak discharges for drainage areas between 0.10 and 8,371 square miles.

The peak discharge computed using USGA Regression Equation is **3,123** cfs and will be considered in the hydraulic model



SCALE: AS NOTED - APPROXIMATE

DATE: JANUARY 2014

PROJECT NO.: 13-0456-001

DRAWN: JMS

Title

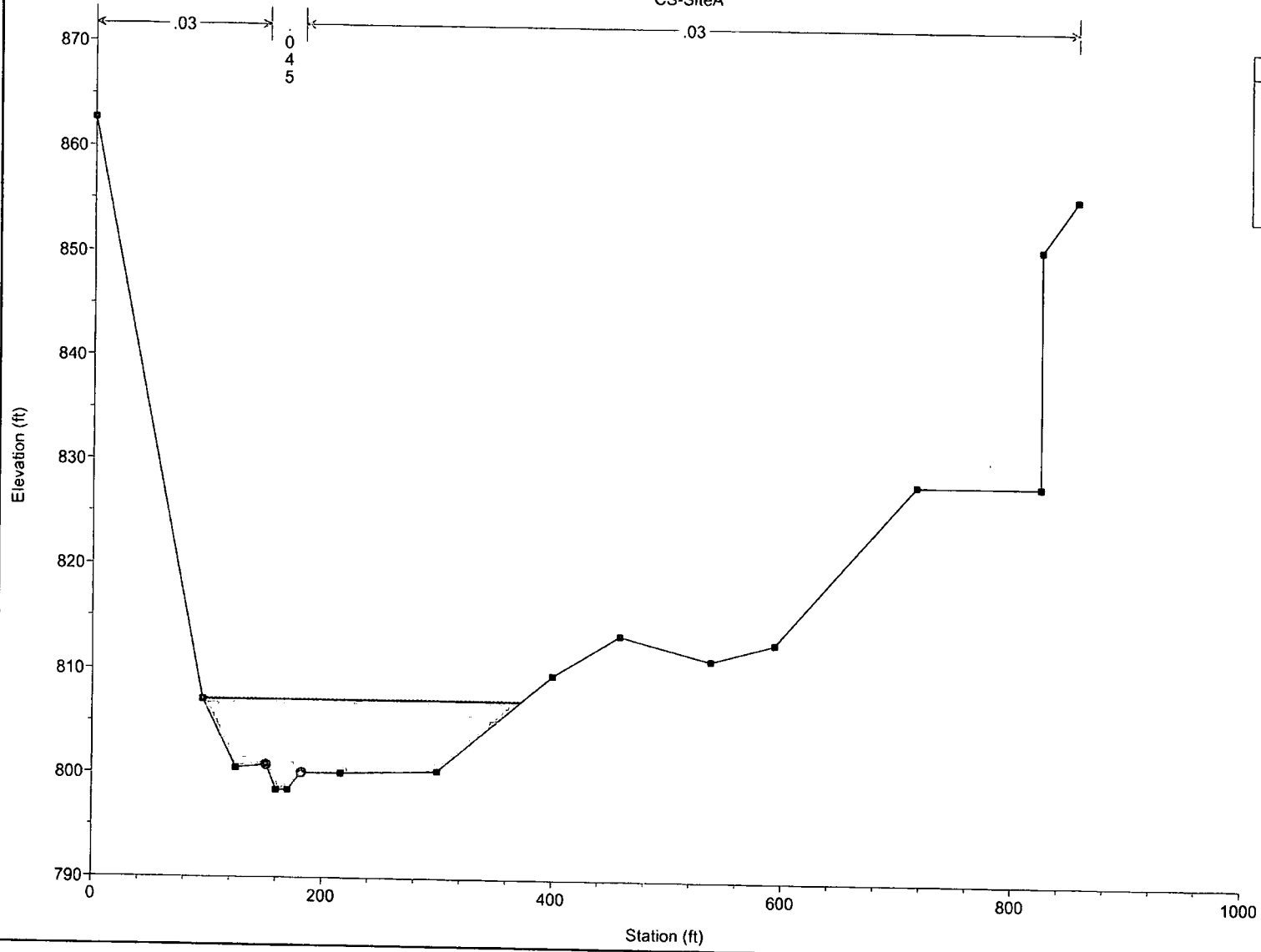
EQT GATHERING, LLC
MOSA SO15 GATHERING LINE
DRAINAGE MAP
DOGGRIDGE CO., WEST VIRGINIA

APPENDIX D



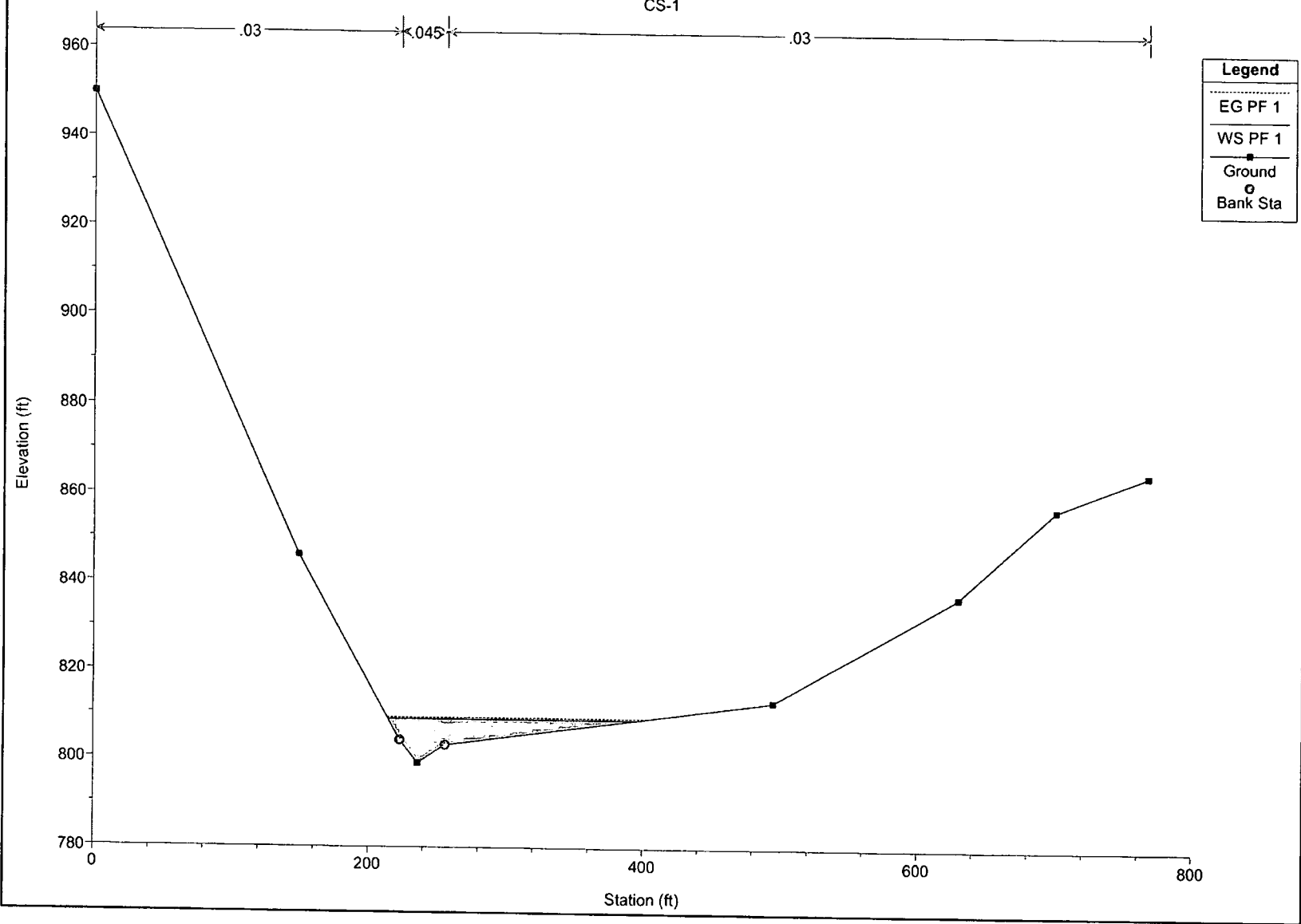
Pre-Construction Cross Sections

Timber Mat at Arnolds Creek Plan: PRE 1/16/2014
CS-SiteA

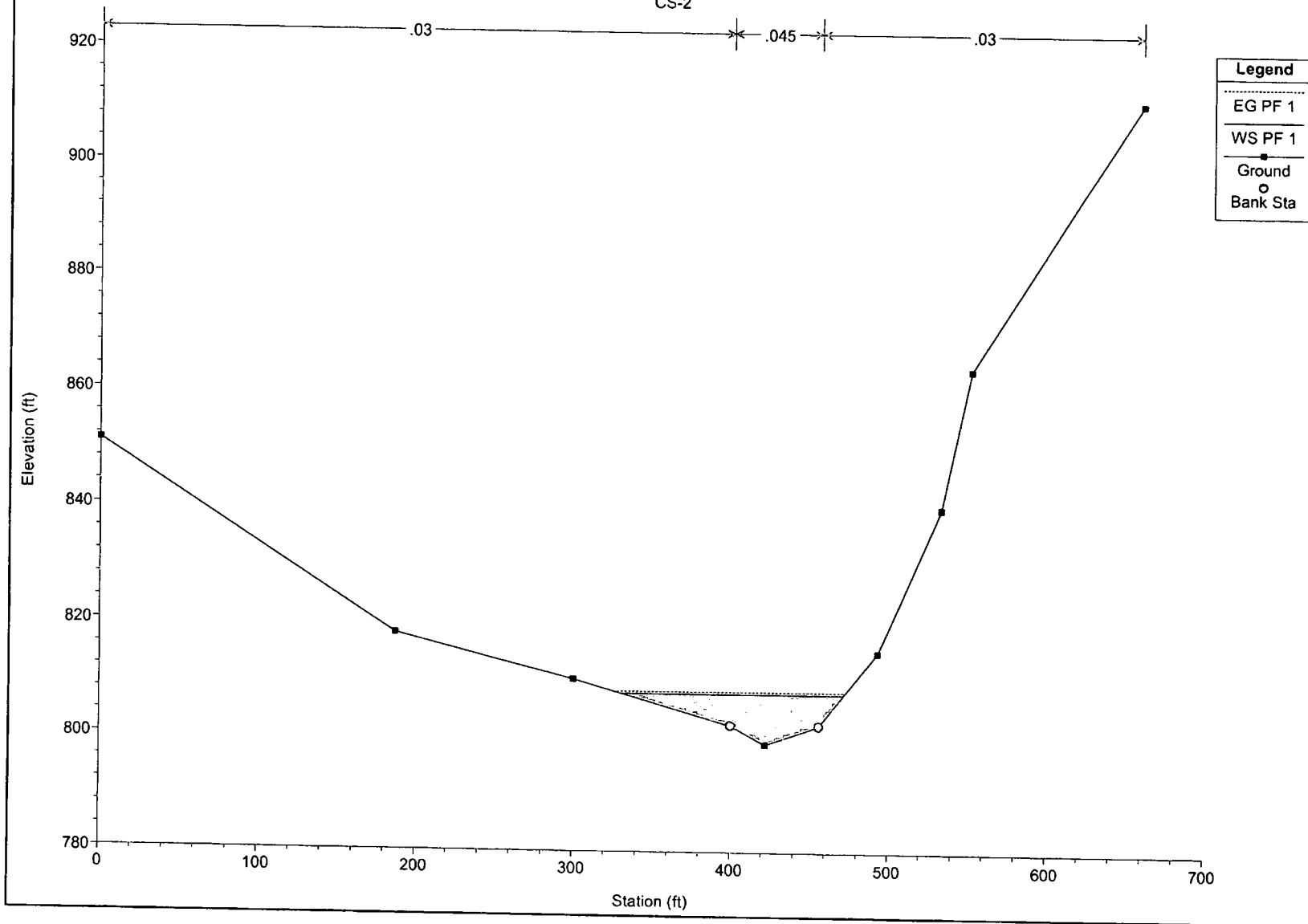


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—	WS PF 1
●	Ground
○	Bank Sta

Timber Mat at Arnolds Creek Plan: PRE 1/16/2014
CS-1

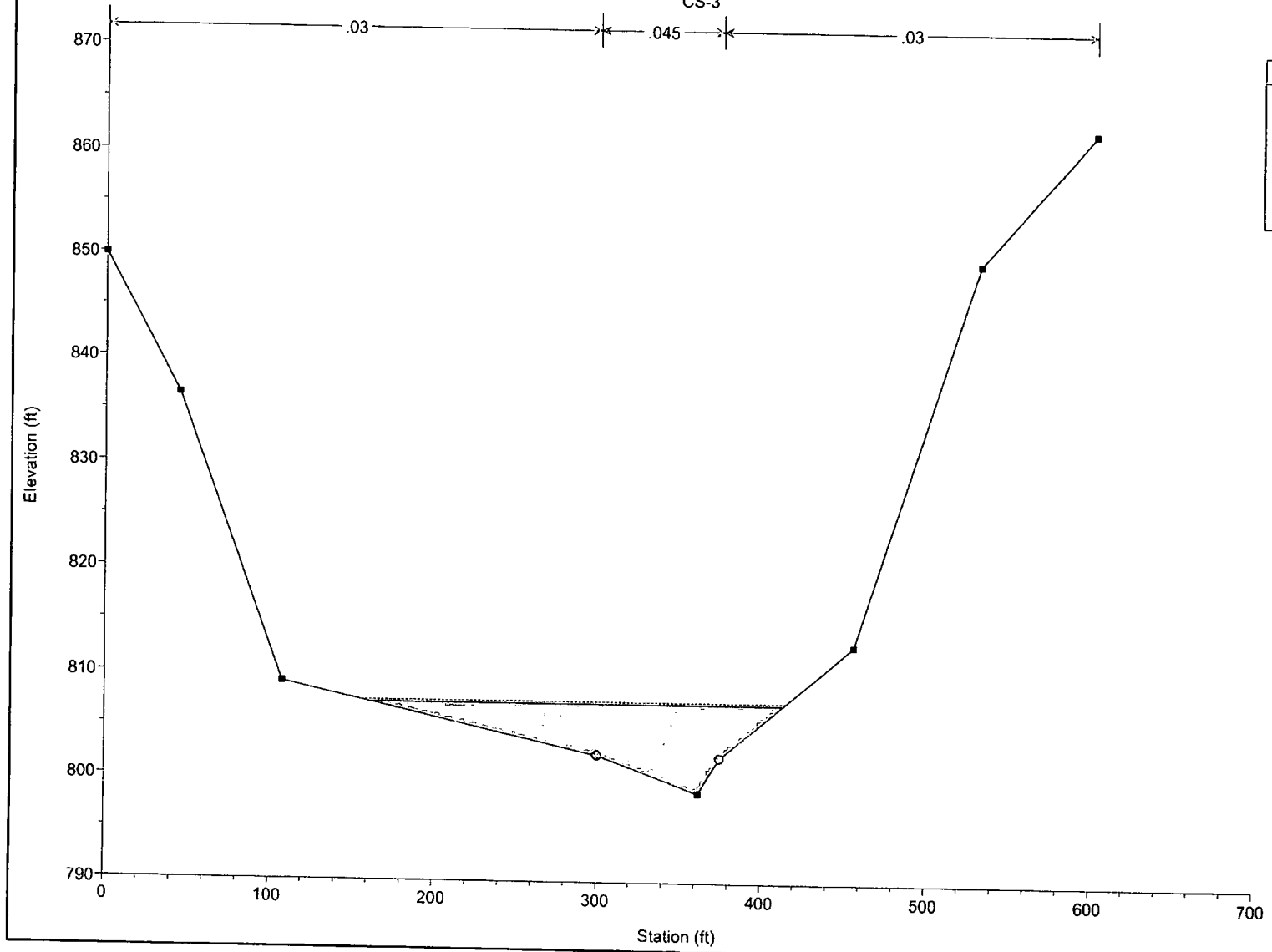


Timber Mat at Arnolds Creek Plan: PRE 1/16/2014
CS-2



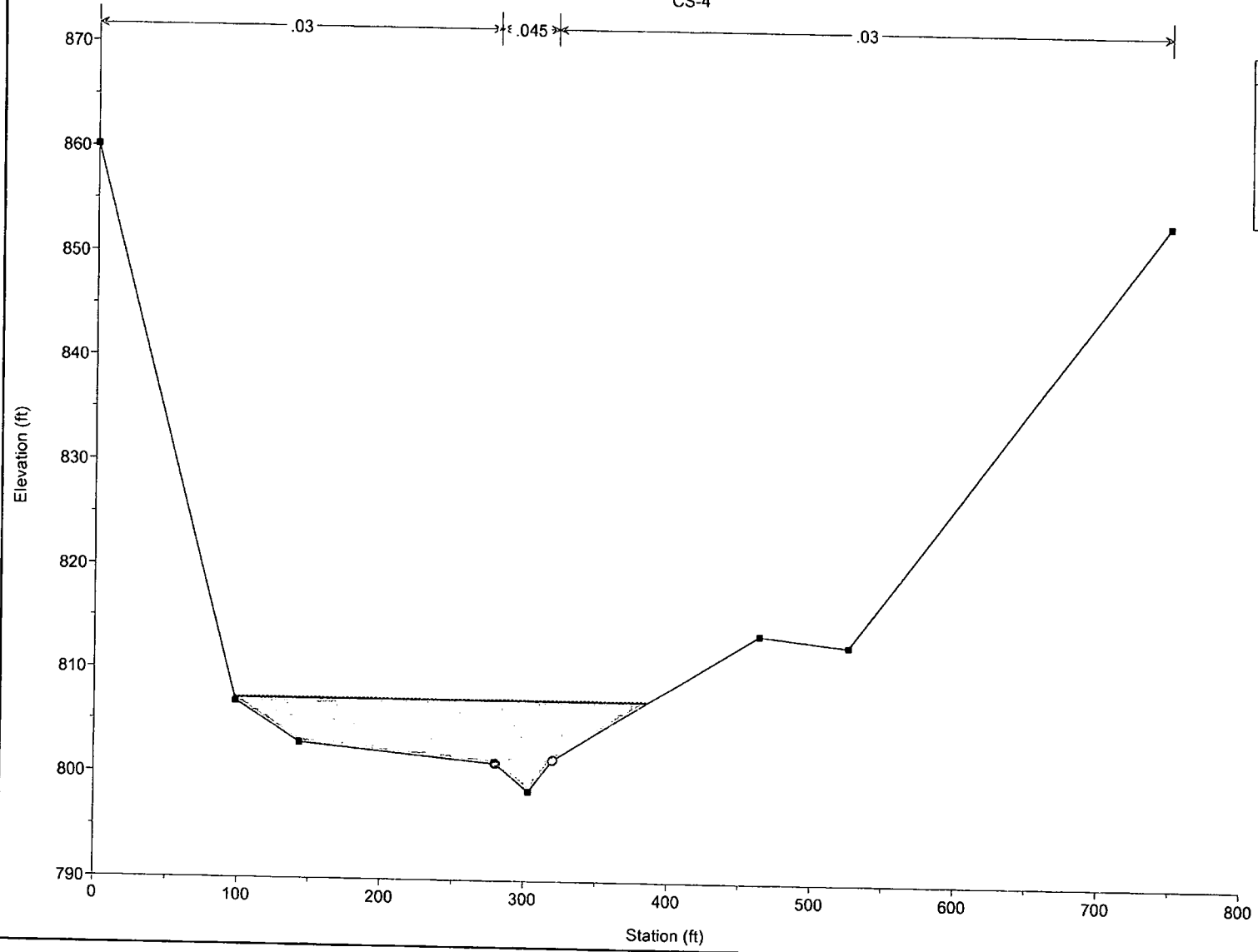
Timber Mat at Arnolds Creek Plan: PRE 1/16/2014

CS-3



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Ground	—■—
Bank Sta	○

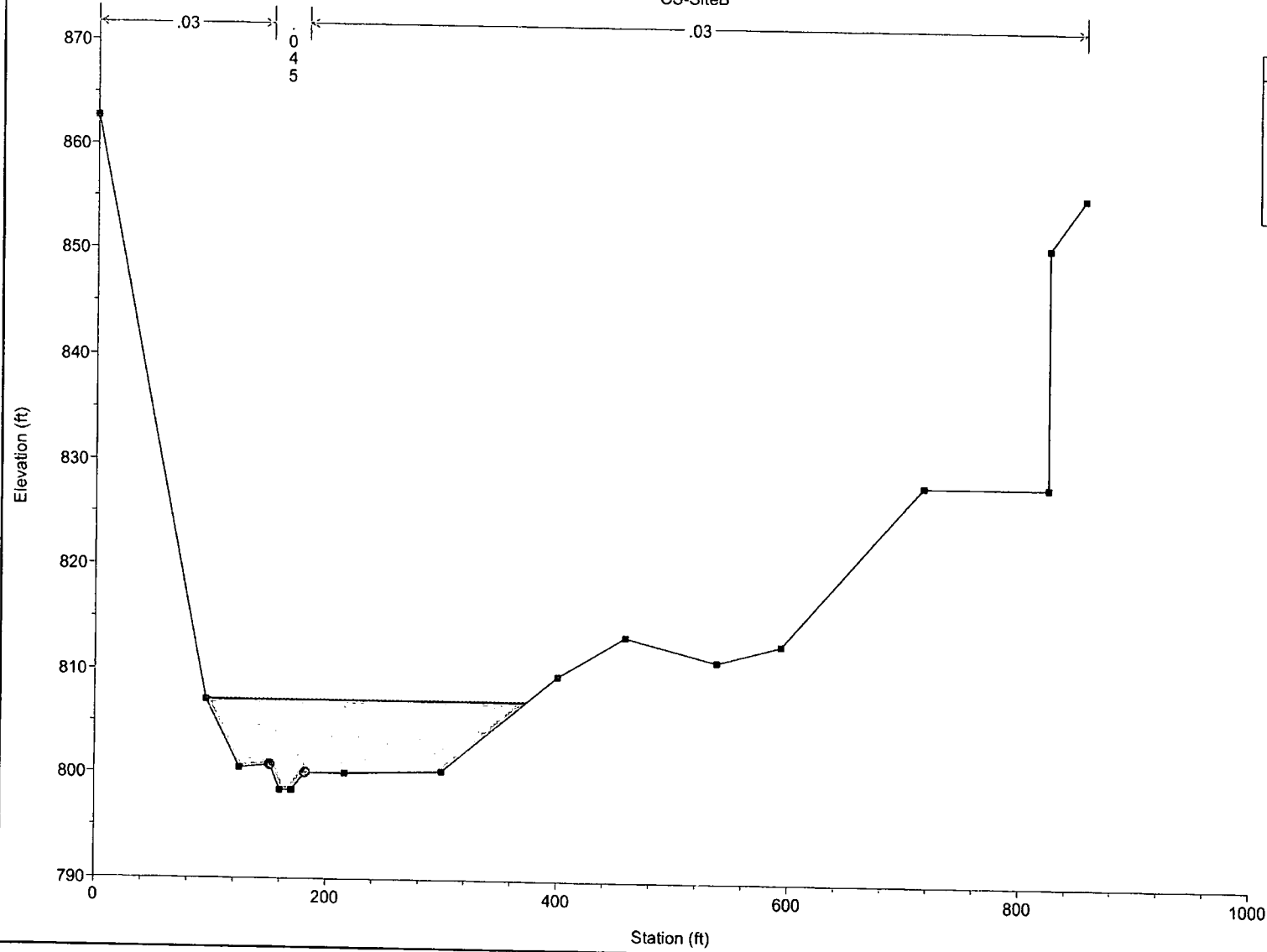
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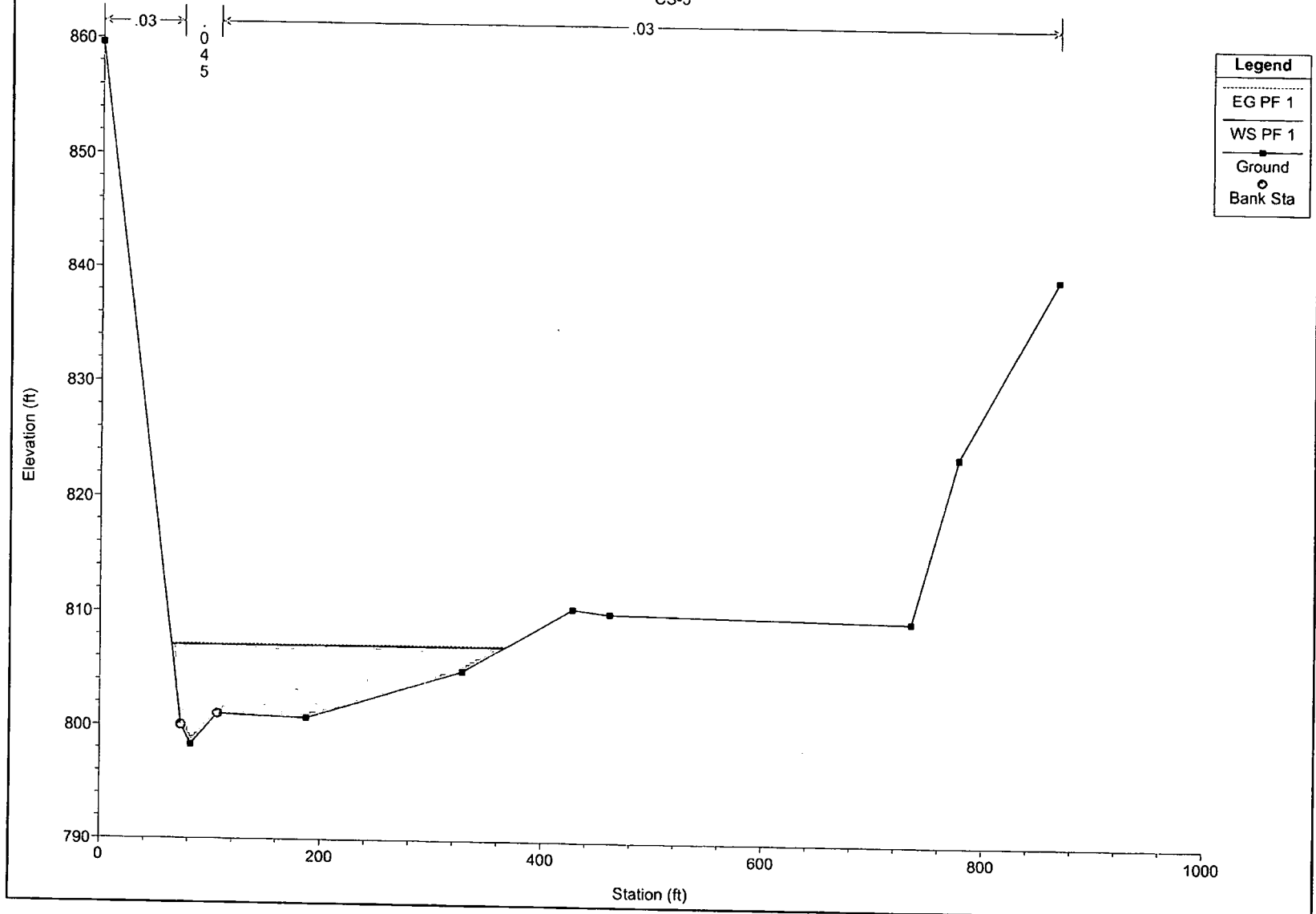
- Legend**
- EG PF 1
 - WS PF 1
 - Ground
 - Bank Sta

Timber Mat at Arnolds Creek Plan: PRE 1/16/2014

CS-SiteB

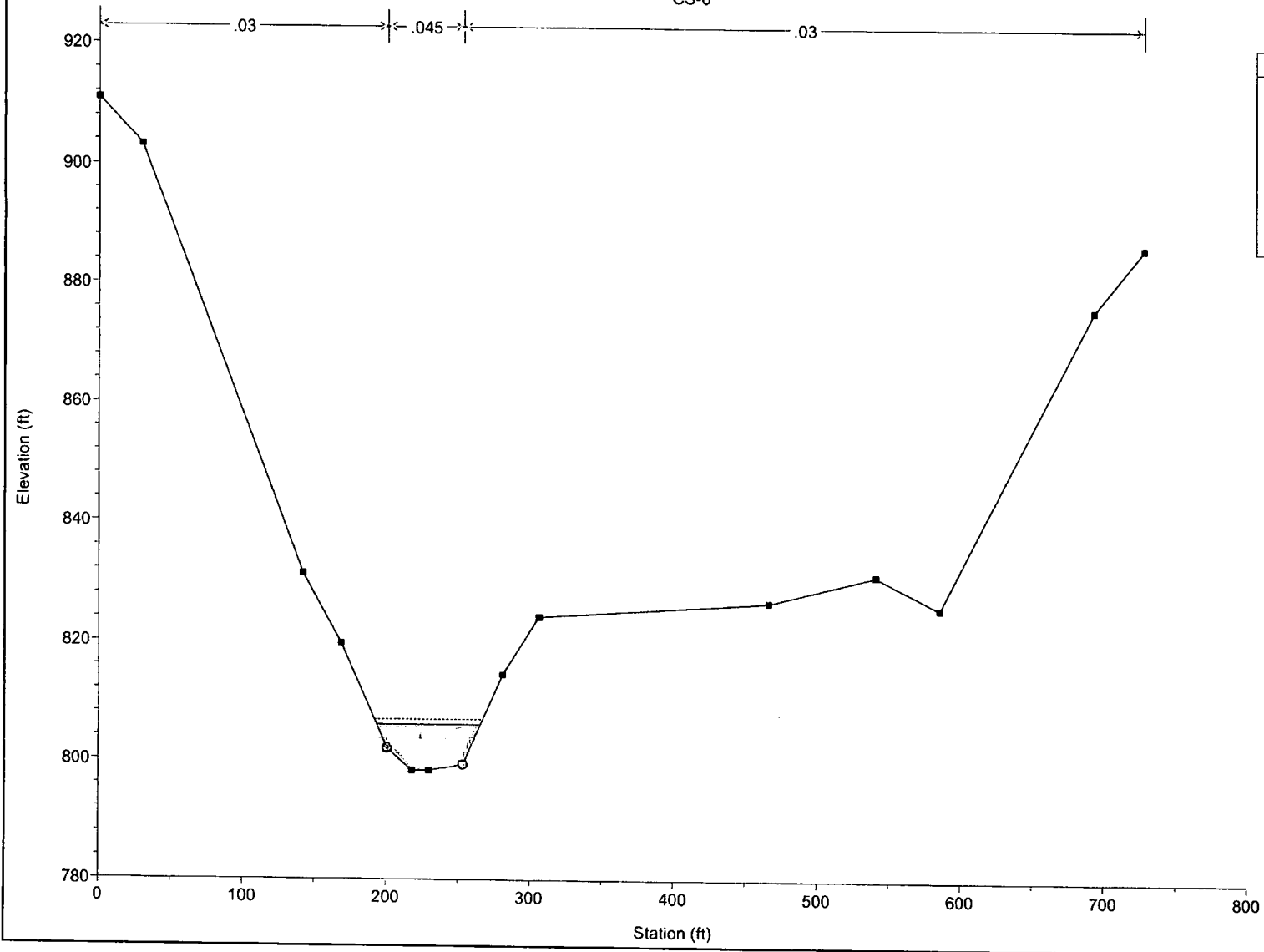


Timber Mat at Arnolds Creek Plan: PRE 1/16/2014
CS-5



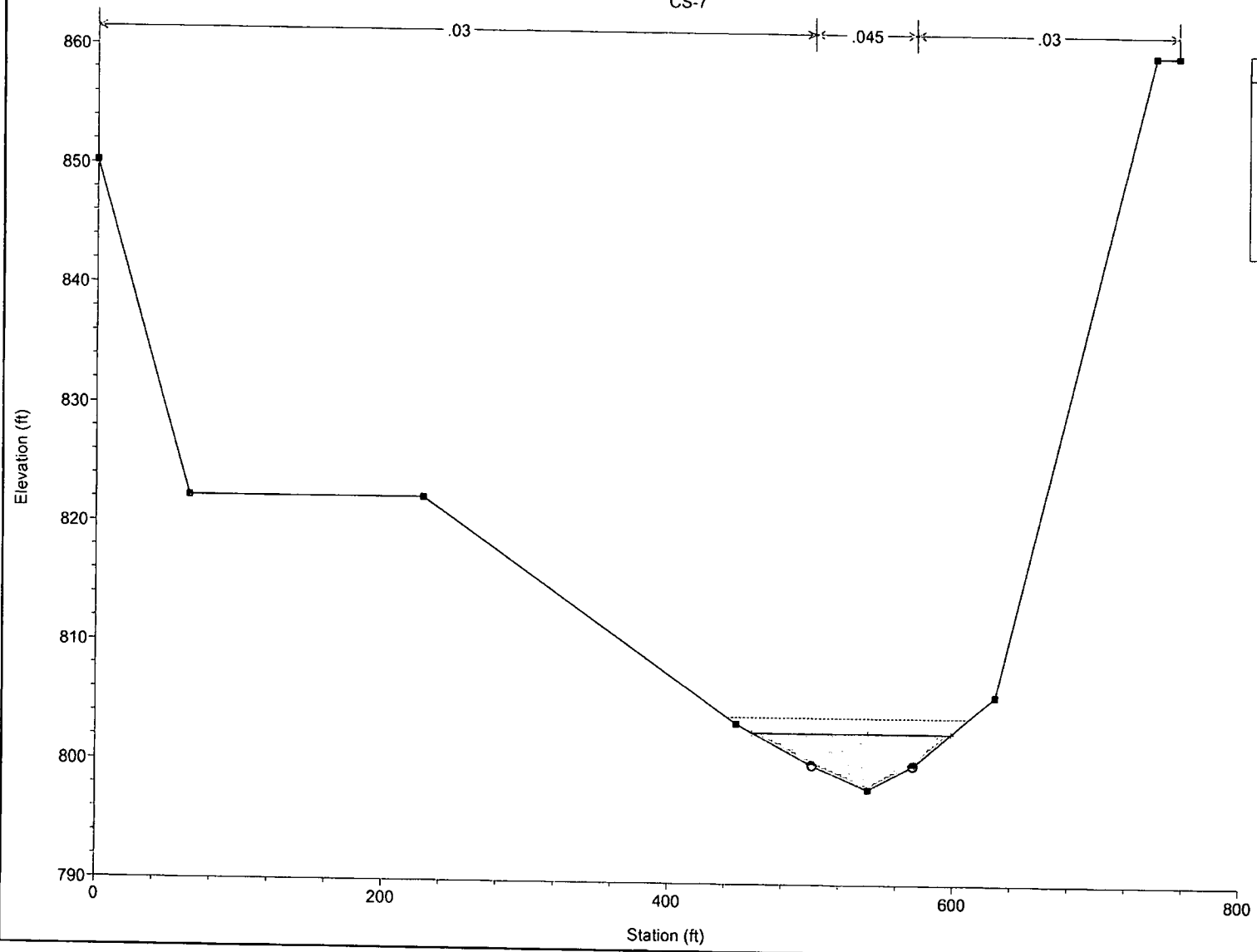
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■	Ground
○	Bank Sta

Timber Mat at Arnolds Creek Plan: PRE 1/16/2014
CS-6



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---	WS PF 1
---	Crit PF 1
■	Ground
●	Bank Sta

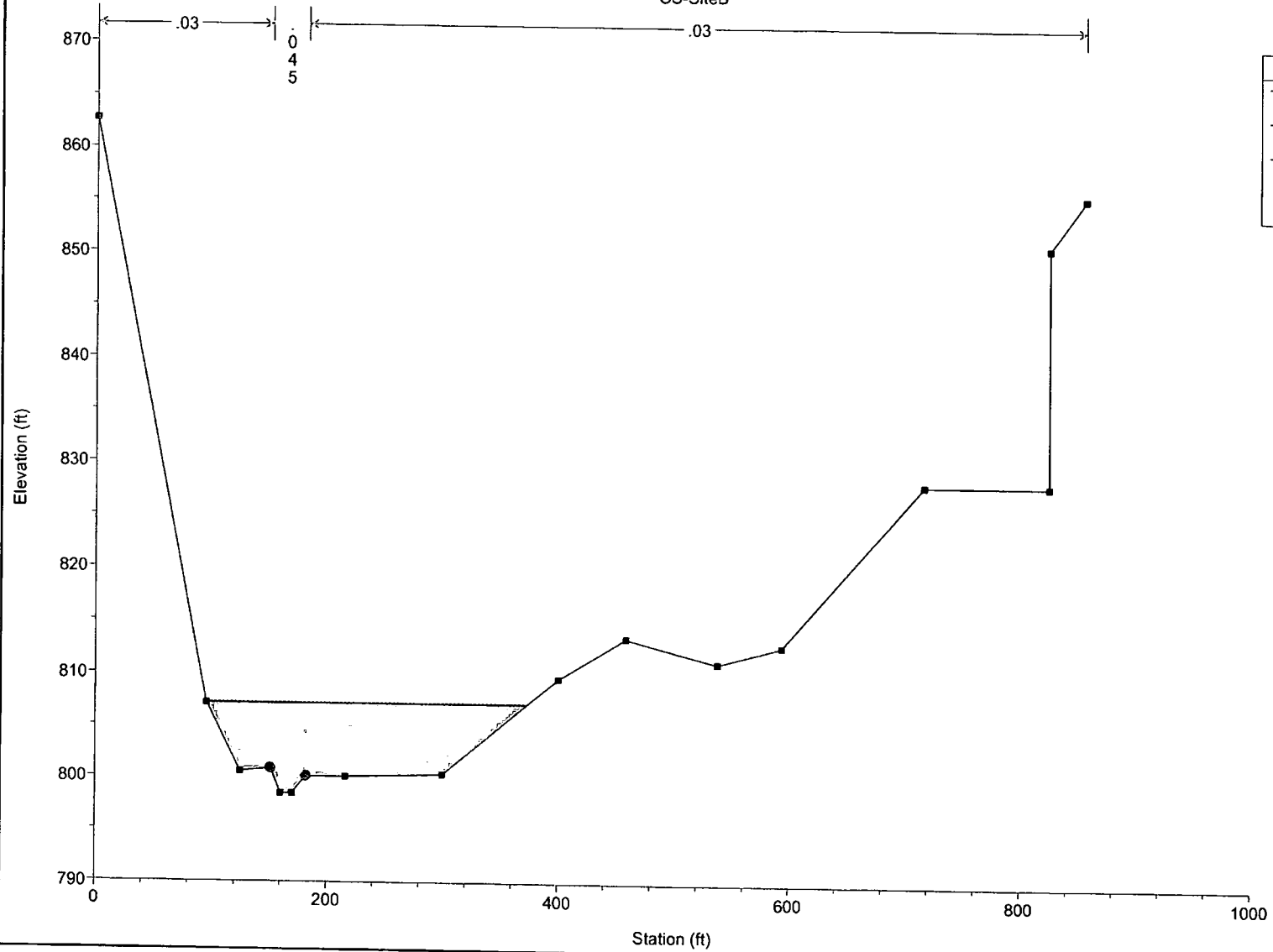
Timber Mat at Arnolds Creek Plan: PRE 1/16/2014
CS-7



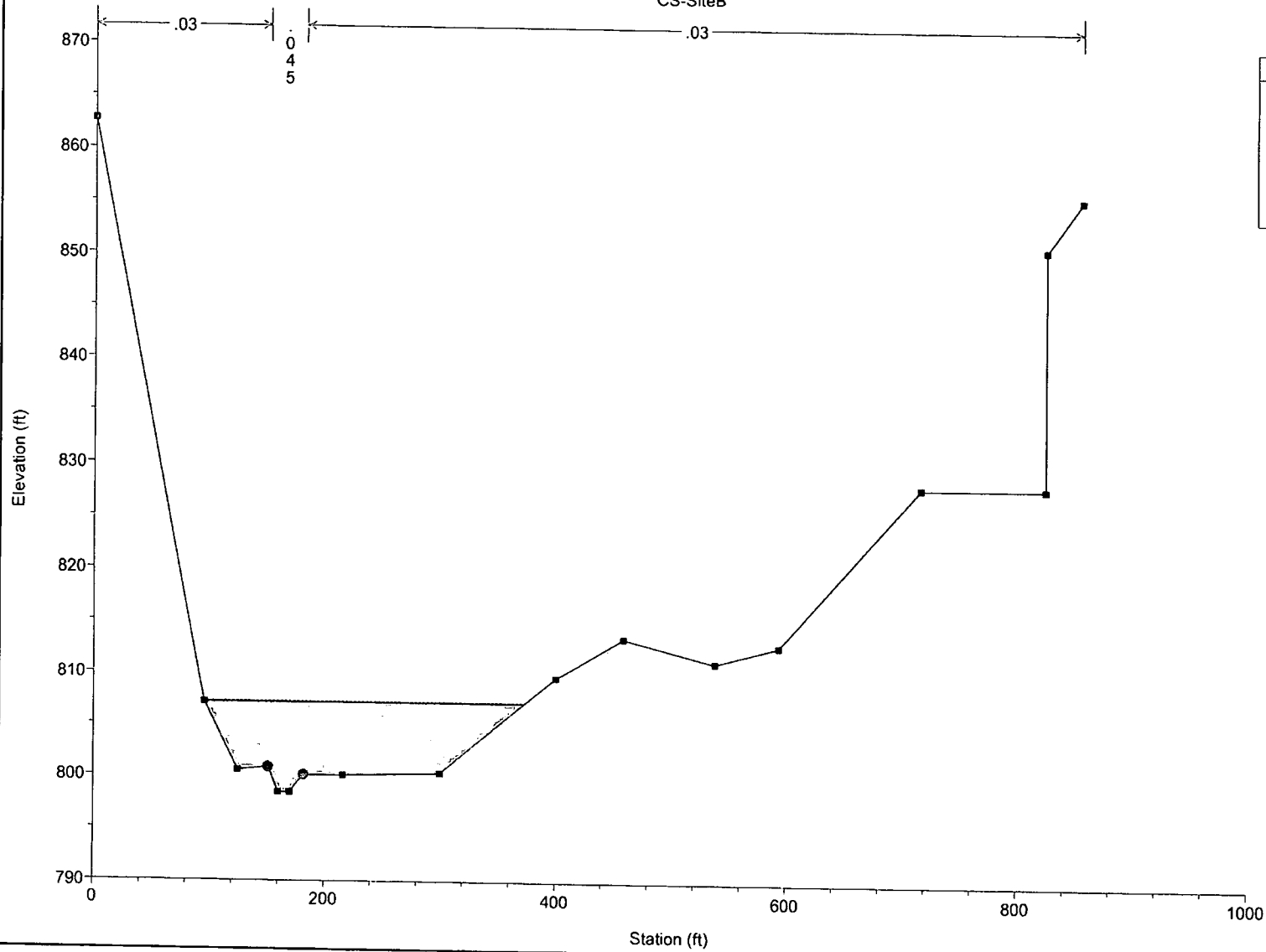
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Crit PF 1
Ground	—■—
Bank Sta	○

**Post-Construction
Cross Sections**

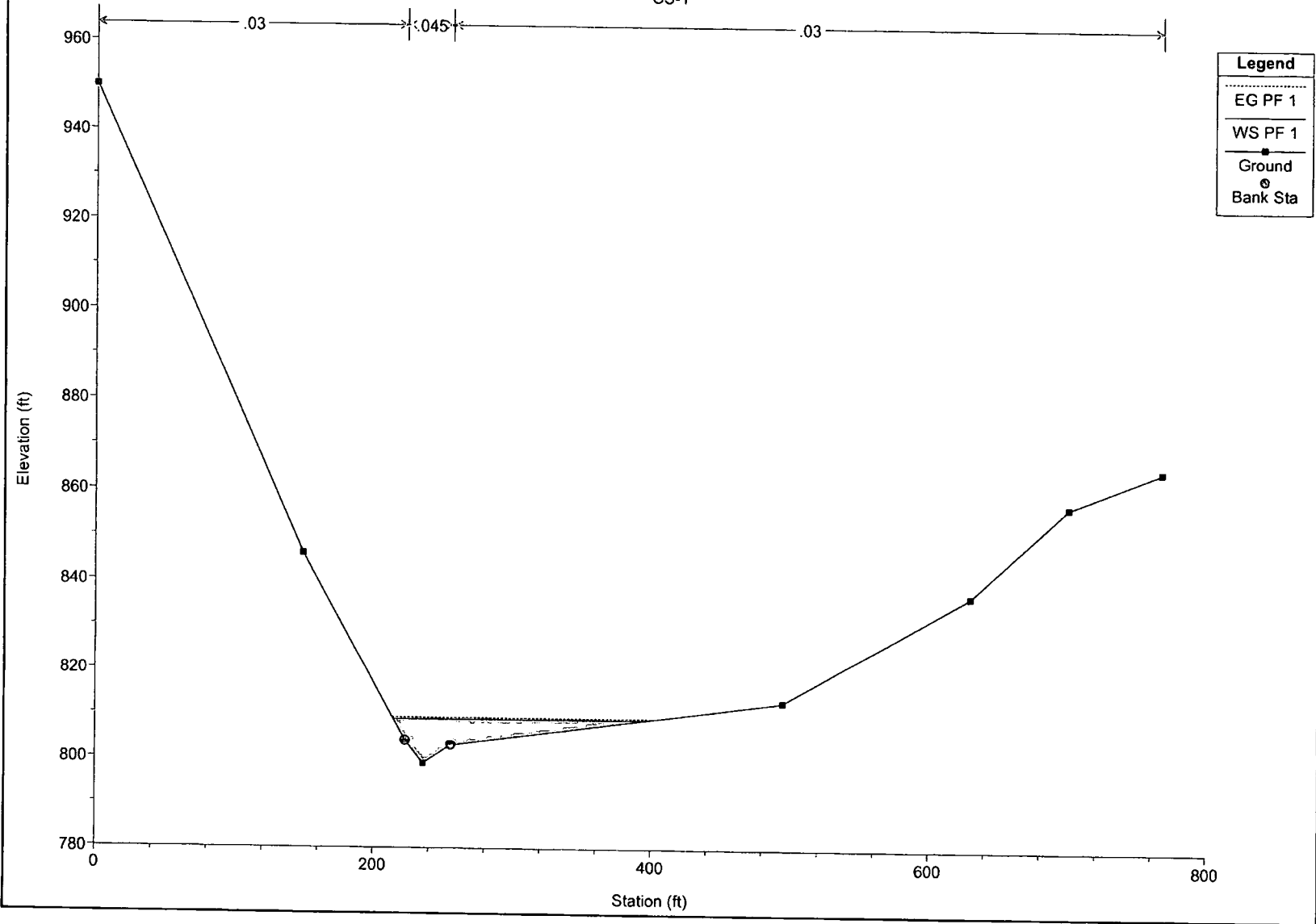
Timber Mat at Arnolds Creek Plan: POST 1/16/2014
CS-SiteB



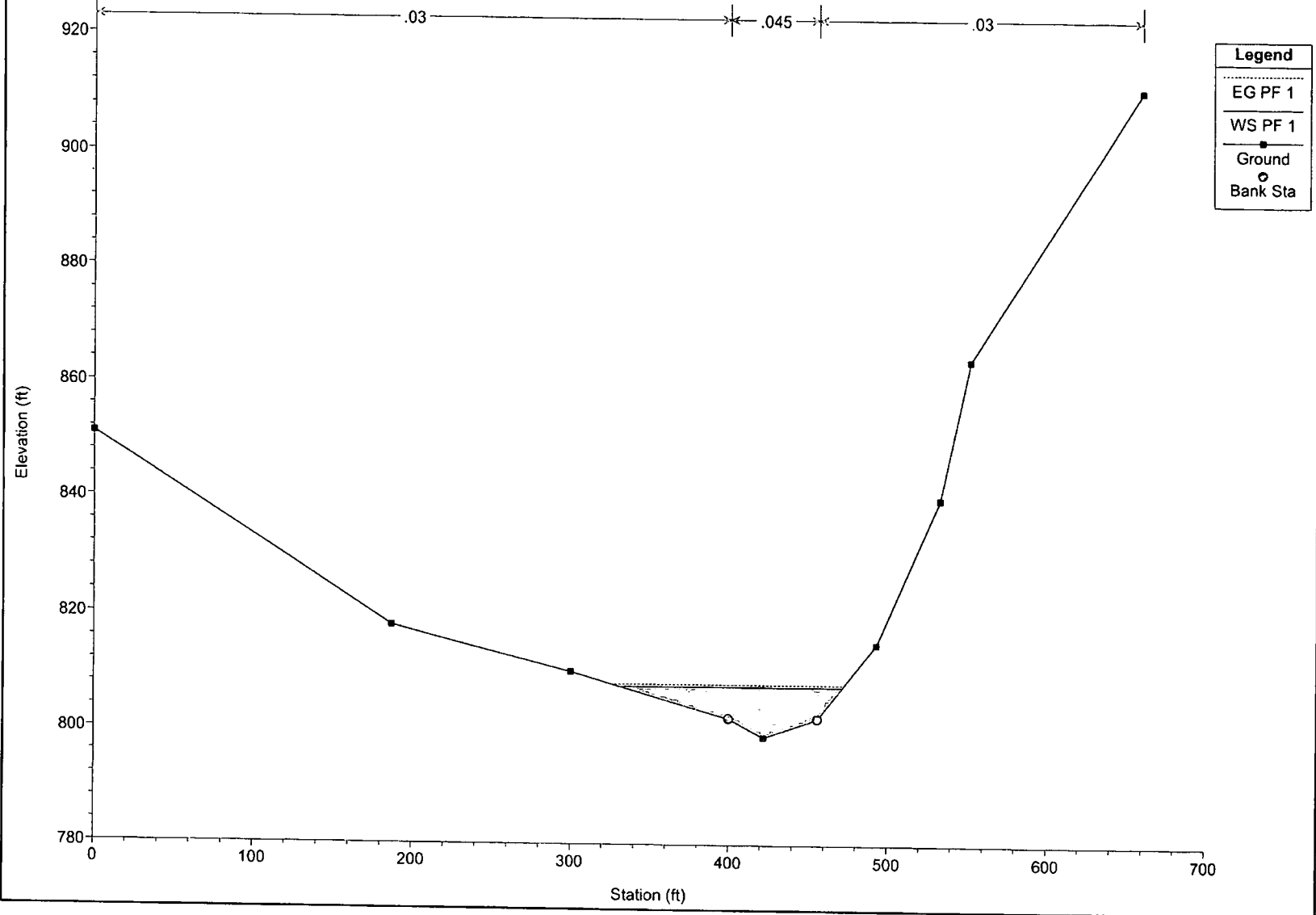
Timber Mat at Arnolds Creek Plan: POST 1/16/2014
CS-SiteB



Timber Mat at Arnolds Creek Plan: POST 1/16/2014
CS-1



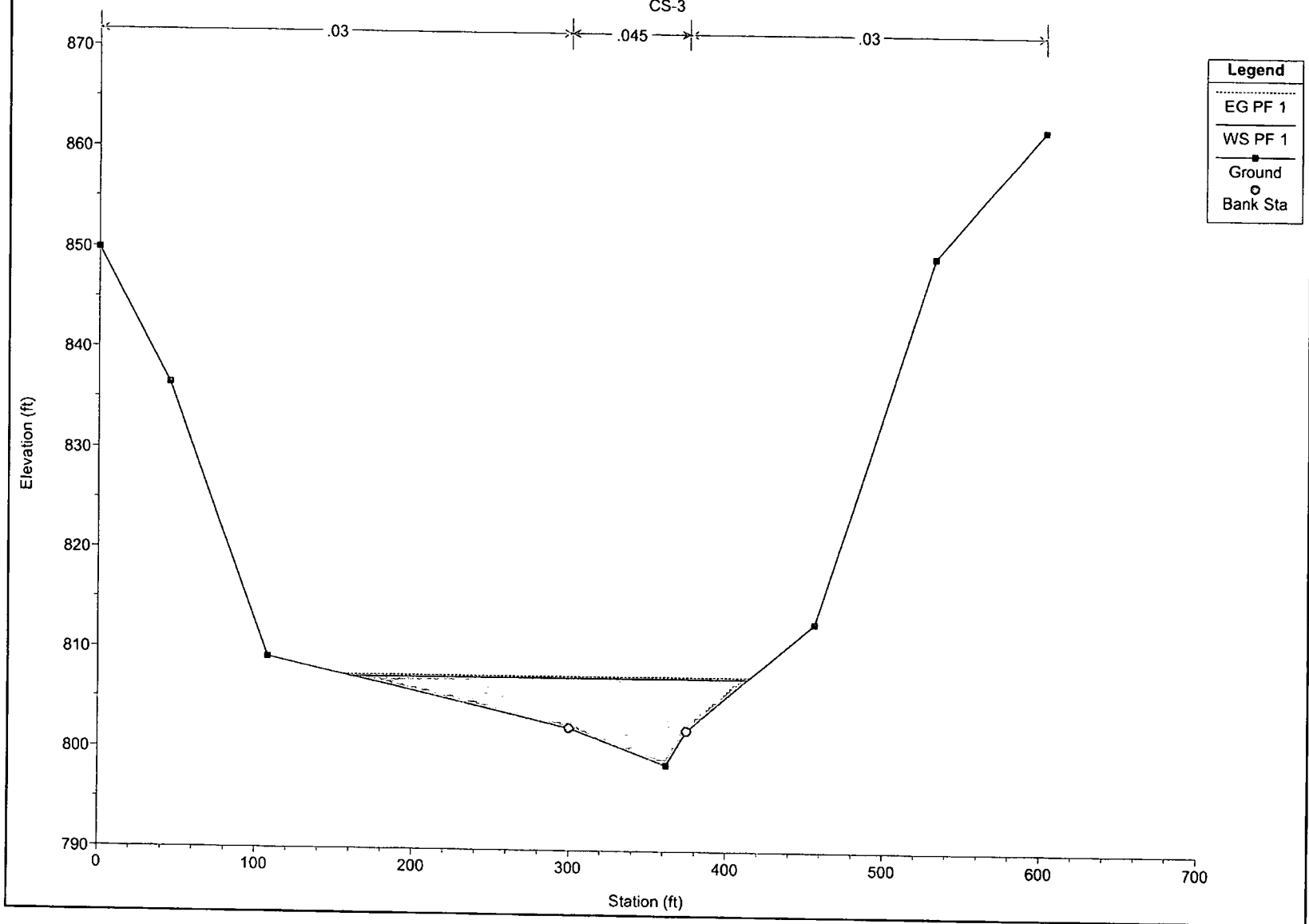
Timber Mat at Arnolds Creek Plan: POST 1/16/2014
CS-2



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Ground	—■—
Bank Sta	○

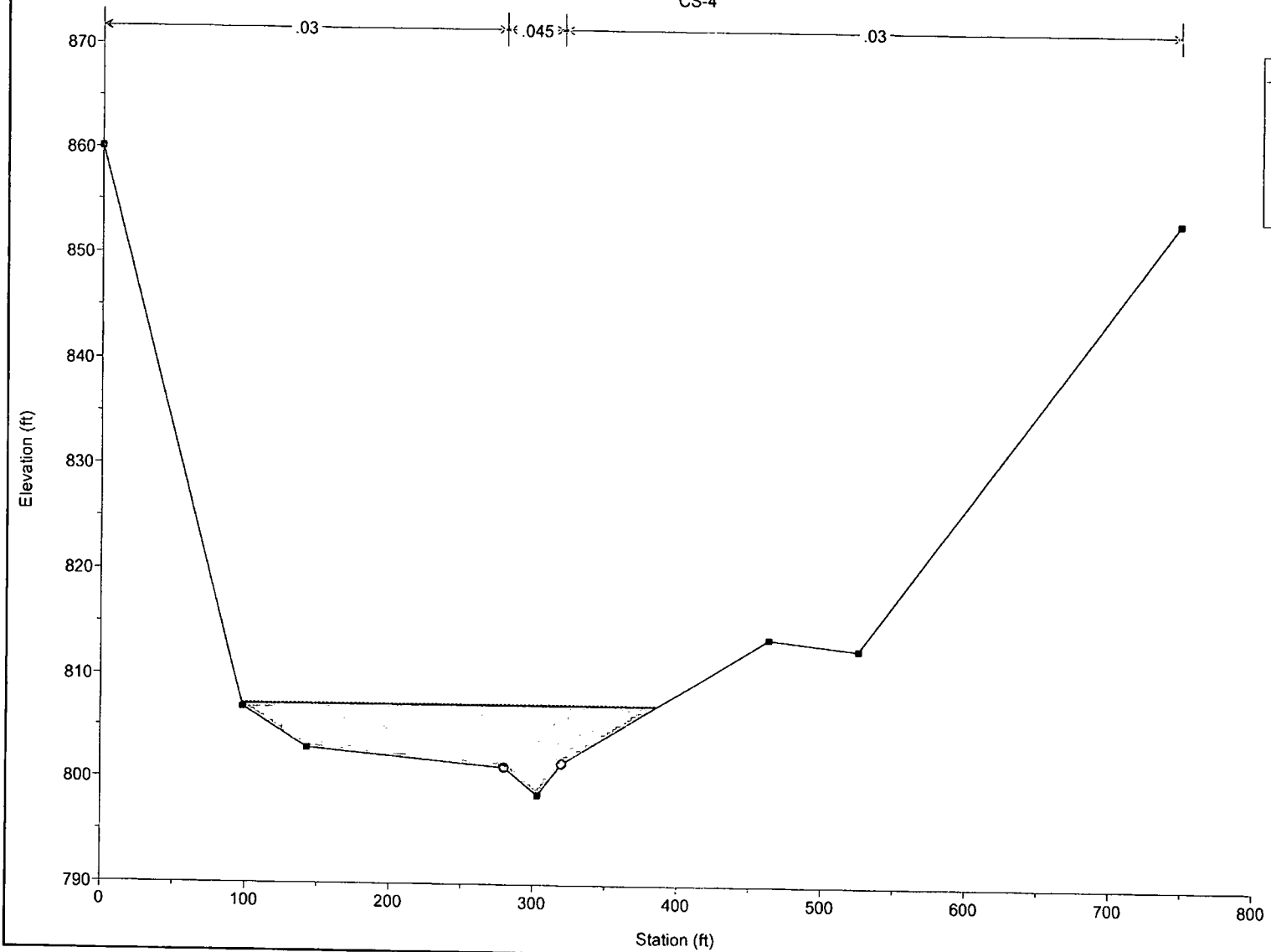
Timber Mat at Arnolds Creek Plan: POST 1/16/2014

CS-3



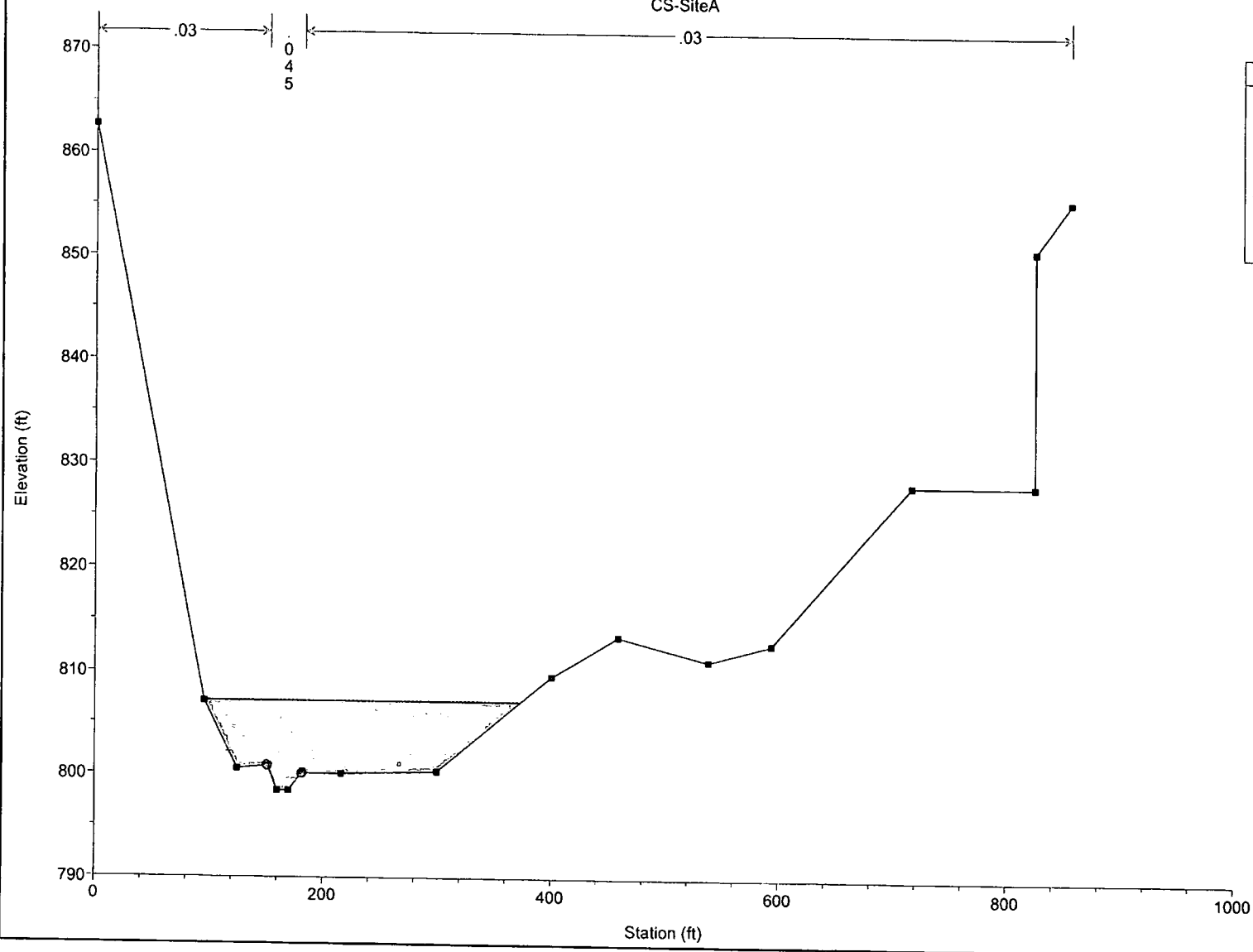
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Ground	■
Bank Sta	○

Timber Mat at Arnolds Creek Plan: POST 1/16/2014
CS-4



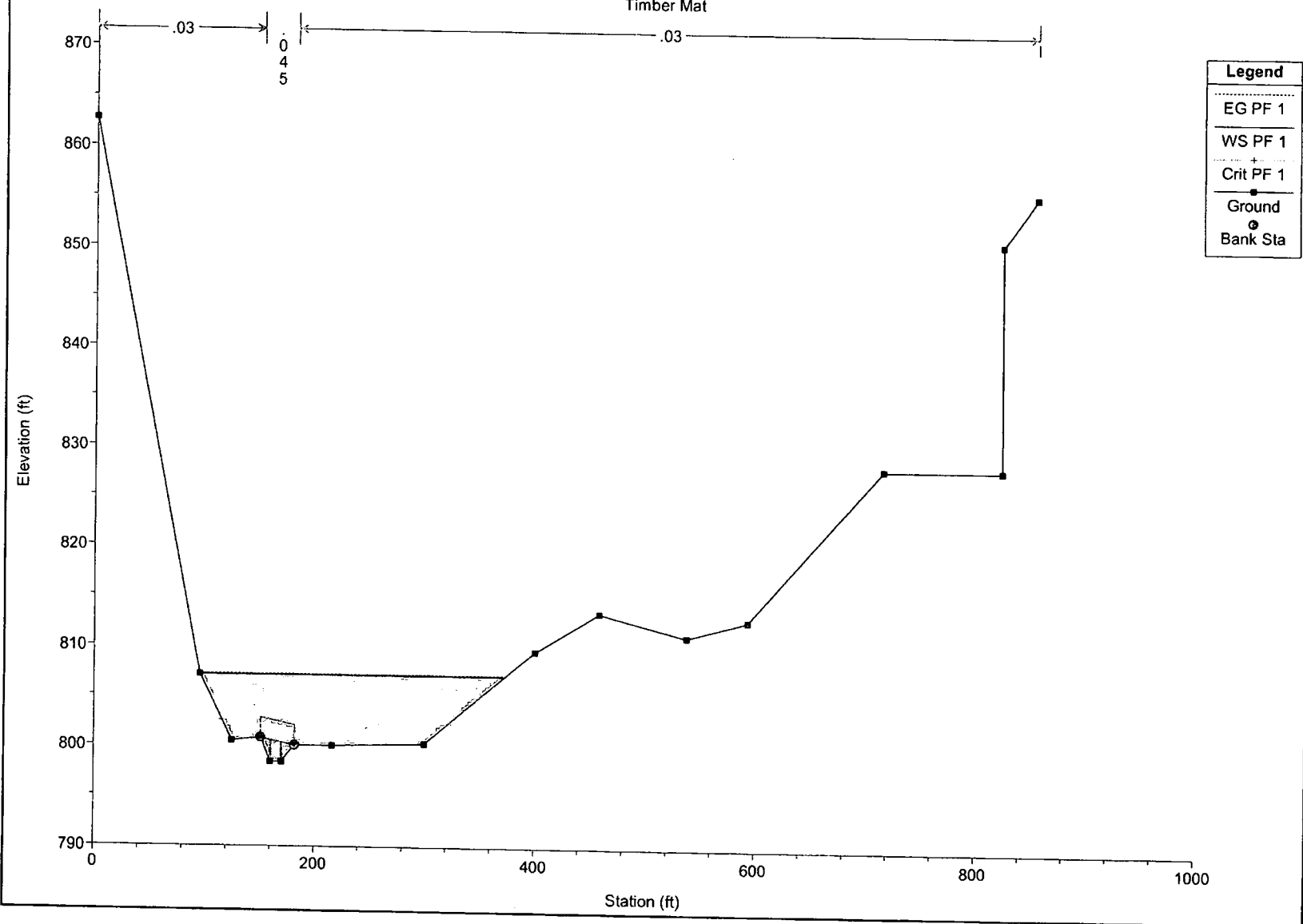
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Bank Sta	○

Timber Mat at Arnolds Creek Plan: POST 1/16/2014
 CS-SiteA



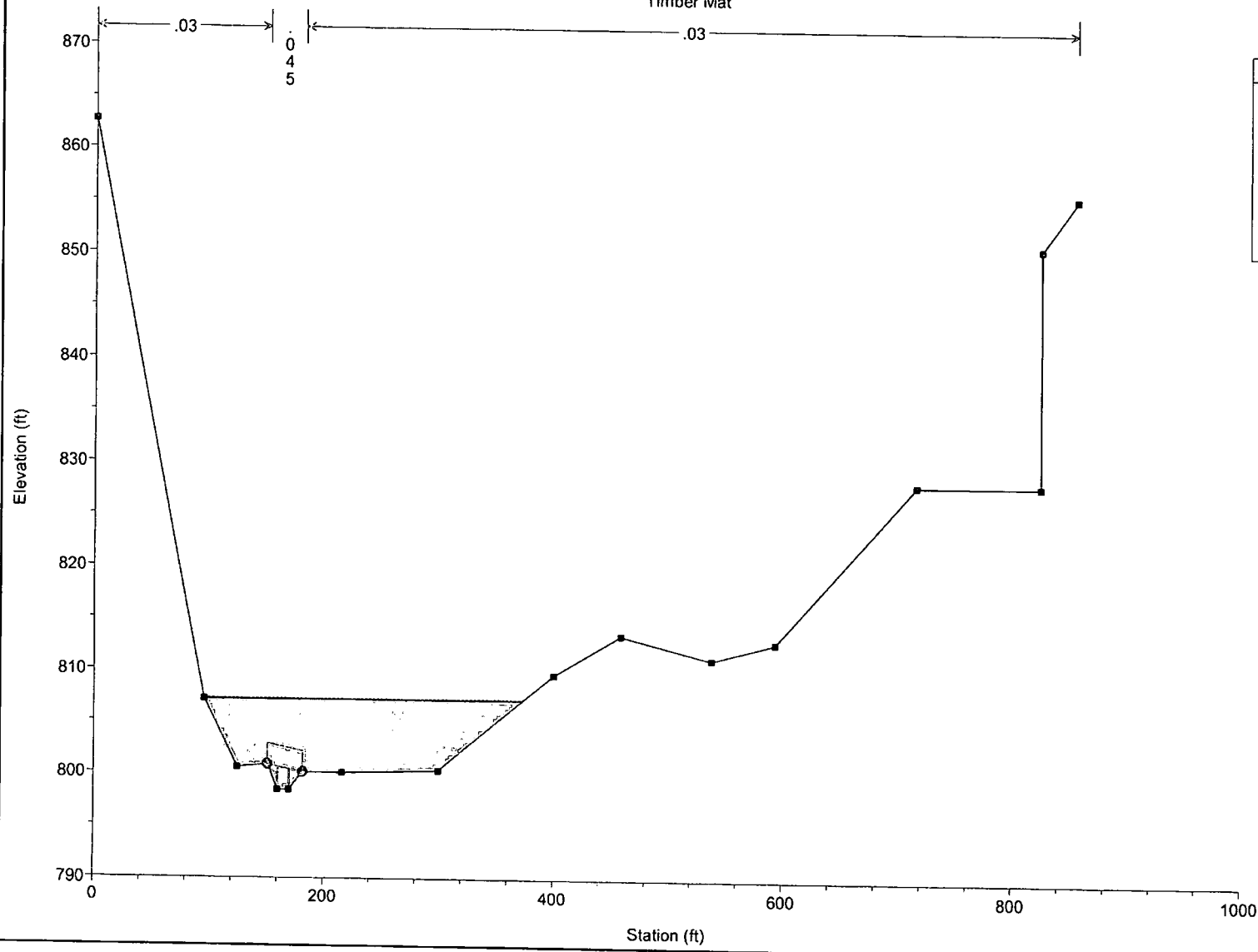
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Timber Mat at Arnolds Creek Plan: POST 1/16/2014

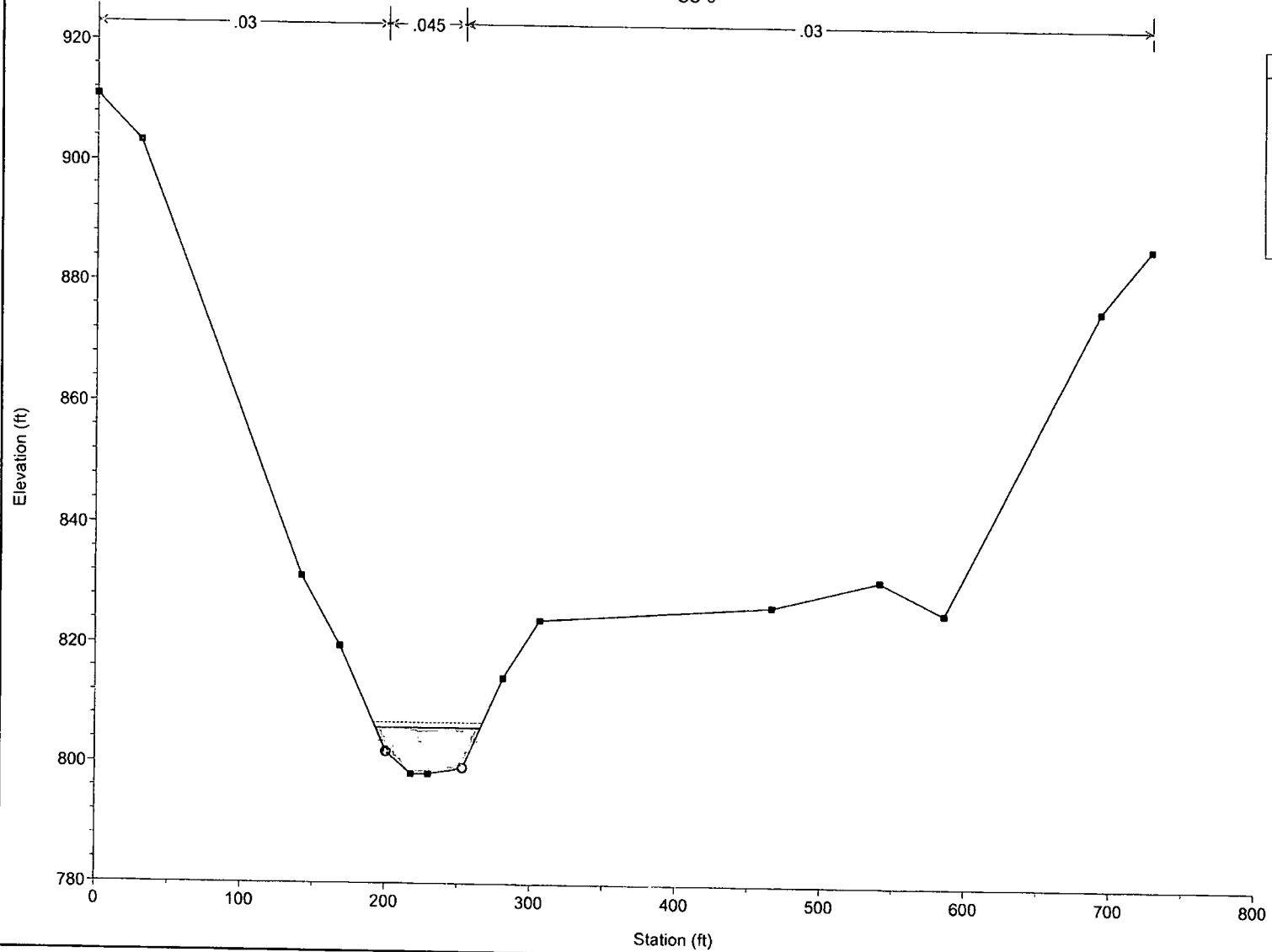


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Timber Mat at Arnolds Creek Plan: POST 1/16/2014
 Timber Mat

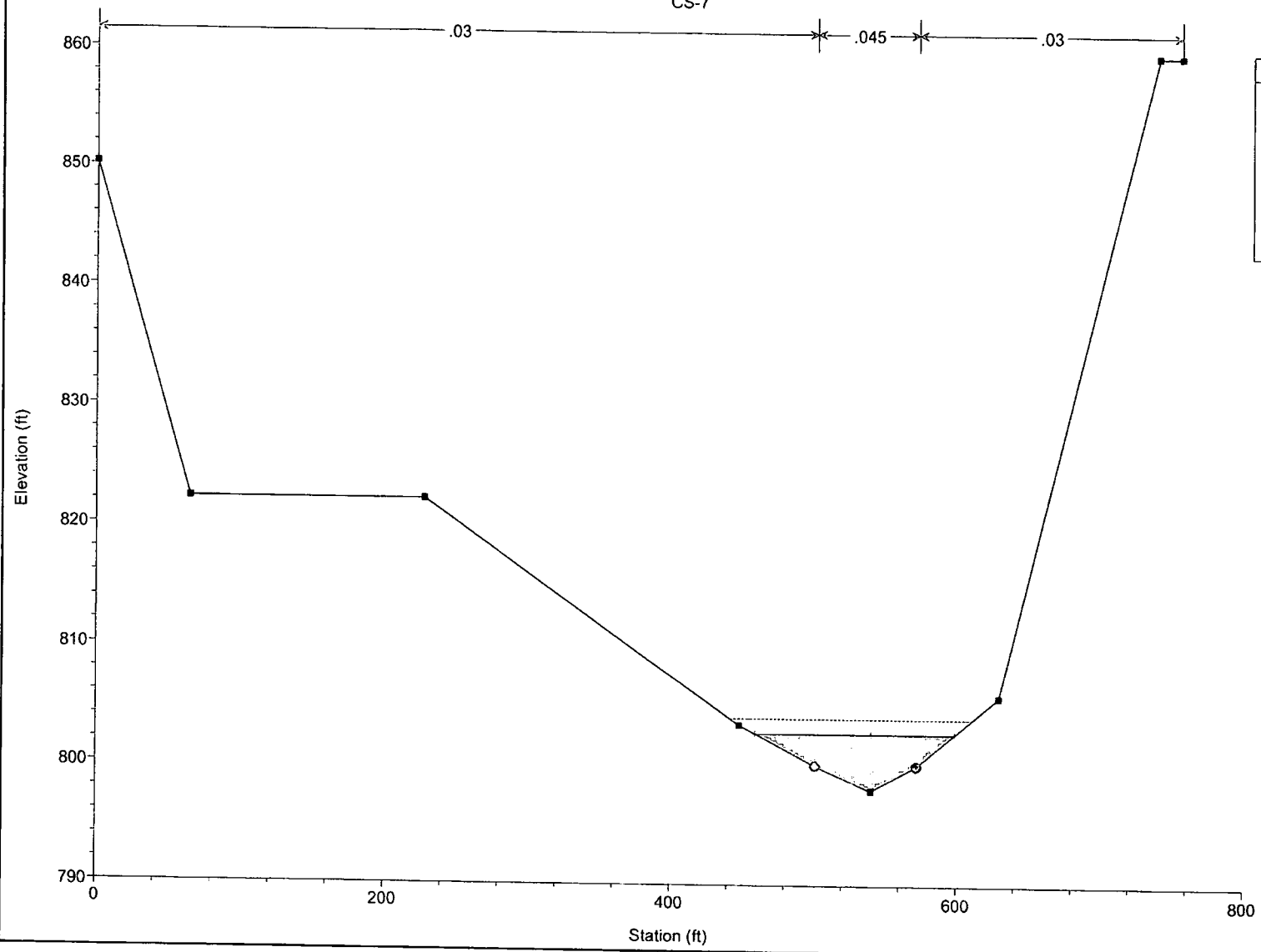


Timber Mat at Arnolds Creek Plan: POST 1/16/2014
CS-6



Legend	
---	EG PF 1
---	WS PF 1
---	Crit PF 1
■	Ground
○	Bank Sta

Timber Mat at Arnolds Creek Plan: POST 1/16/2014
CS-7



APPENDIX E

TABLE 1**COMPARISON OF 100-YEAR FLOOD ELEVATIONS**

Cross Section¹	Minimum Channel Elevation (Feet)	Existing Conditions Model² (Feet)	Proposed Conditions Model³ (Feet)	Increase (Feet)
0 ⁴	798.0	802.69	802.69	0.00
720	798.2	805.89	805.89	0.00
1,135	798.3	807.07	807.07	0.00
1,315 ⁵	798.4	807.10	807.10	0.00
1,360 ⁵	798.4	807.11	807.11	0.00
1,509	798.5	807.12	807.13	0.01
1,579	798.6	807.18	807.18	0.00
1,899	798.7	807.57	807.58	0.01
2,294	798.9	808.89	808.90	0.01

¹ Cross section stationing corresponds to stream centerline stationing in feet as modeled in the POTESTA HEC-RAS model.

² The Existing Conditions Model considers the site prior to installation of the proposed temporary timber mat.

³ The Proposed Conditions Model considers the site after installation of the proposed temporary timber mat.

⁴ POTESTA stationing assumes that the beginning cross section is located at station 0. (Example: Cross section 1,938 is located 938 feet upstream of the beginning of the model).

⁵ Bridge location is between cross sections 1360 and 1315 (approximately station 1335).

APPENDIX F

HEC-RAS Version 4.0.0 March 2008
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

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X X XXXXXX XXXX XXXX XX XXXX
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PROJECT DATA

Project Title: Timber Mat at Arnolds Creek

Project File : TimberMatatArnol.prj

Run Date and Time: 1/16/2014 1:47:18 PM

Project in English units

PLAN DATA

Plan Title: POST

Plan File : v:\JMSmith\HEC Data\RAS\13-0456-001\TimberMatatArnol.p01

Geometry Title: Post

Geometry File : v:\JMSmith\HEC Data\RAS\13-0456-001\TimberMatatArnol.g02

Flow Title : Flow 01

Flow File : v:\JMSmith\HEC Data\RAS\13-0456-001\TimberMatatArnol.f01

Plan Summary Information:

Number of: Cross Sections = 9 Multiple Openings = 0

Culverts = 0 Inline Structures = 0

Bridges = 1 Lateral Structures = 0

Computational Information

Water surface calculation tolerance = 0.01

Critical depth calculation tolerance = 0.01

Maximum number of iterations = 20

Maximum difference tolerance = 0.3

Flow tolerance factor = 0.001

Computation Options

Critical depth computed only where necessary

Conveyance Calculation Method: At breaks in n values only

Friction Slope Method: Average Conveyance

Computational Flow Regime: Subcritical Flow

FLOW DATA

Flow Title: Flow 01

Flow File : v:\JMSmith\HEC Data\RAS\13-0456-001\TimberMatatArnol.f01

Flow Data (cfs)

River	Reach	RS	PF 1
Arnolds Creek	Reach 1	2294	3123

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
Arnolds Creek	Reach 1	PF 1	Normal S = 0.67	Normal S = 0.67

GEOMETRY DATA

Geometry Title: Post

Geometry File : v:\JMSmith\HEC Data\RAS\13-0456-001\TimberMatatArnol.g02

CROSS SECTION

RIVER: Arnolds Creek
REACH: Reach 1 RS: 2294

INPUT

Description: CS-1

Station Elevation Data num= 9

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	950	149	846	223	804	236	798.9	256	803
495	813	630	837	701	857	768	865		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	223	.045	256	.03

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 223 256 718 720 722 .1 .3

CROSS SECTION

RIVER: Arnolds Creek
REACH: Reach 1 RS: 1899

INPUT
Description: CS-2
CS-2

Station Elevation Data num= 10

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	851	187	818	300	810	400	802	422	798.7
456	802	493	815	533	840	552	864	660	911

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	400	.045	456	.03

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	400	456		414.99	414.99	414.99	.1	.3

CROSS SECTION

RIVER: Arnolds Creek
REACH: Reach 1 RS: 1579

INPUT

Description: CS-3

Station Elevation Data num= 9

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	849.9	45	836.5	107.8	809.1	300	802.2	362	798.6
375	802.02	456.3	812.8	532.6	849.5	602.8	862.2		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	300	.045	375	.03

Bank	Sta: Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	300	375	198	200	202	.1	.3	

CROSS SECTION

RIVER: Arnolds Creek
REACH: Reach 1 RS: 1509

INPUT

Description: CS-4

Station Elevation Data num= 9

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	860.1	98.3	806.8	143	802.9	280	801.1	303	798.5
320	801.5	463.7	813.7	525.9	812.7	749	853.5		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	280	.045	320	.03

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	280	320		144	149	151		.1	.3

CROSS SECTION

RIVER: Arnolds Creek
REACH: Reach 1 RS: 1360

INPUT

Description: CS-SiteA

Station Elevation Data num= 17

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	862.7	95.8	807.1	124.9	800.5	151.5	800.8	160	798.4
170	798.4	182	800.07	216	800.07	300	800.3	400	809.6
458.6	813.5	537.8	811.2	593.4	812.8	716.2	828.1	824.8	828.1
824.8	850.8	855.7	855.6						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	151.5	.045	182	.03

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	151.5	182		45	45	45	.1	.3	

BRIDGE

RIVER: Arnolds Creek

REACH: Reach 1 RS: 1335

INPUT

Description: Timber Mat

Distance from Upstream XS = 25

Deck/Roadway Width = 15

Weir Coefficient = 2.6

Upstream Deck/Roadway Coordinates

num= 2

Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord

151.5 802.8 800.8 182 802.07 800.07

Upstream Bridge Cross Section Data

Station Elevation Data num= 17

Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev

0 862.7 95.8 807.1 124.9 800.5 151.5 800.8 160 798.4

170 798.4 182 800.07 216 800.07 300 800.3 400 809.6

458.6 813.5 537.8 811.2 593.4 812.8 716.2 828.1 824.8 828.1

824.8 850.8 855.7 855.6

Manning's n Values num= 3

Sta n Val Sta n Val Sta n Val

0 .03 151.5 .045 182 .03

Bank Sta: Left Right Coeff Contr. Expan.

151.5 182 .1 .3

Downstream Deck/Roadway Coordinates

num= 2

Sta	Hi Cord	Lo Cord	Sta	Hi Cord	Lo Cord
151.5	802.8	800.8	182	802.07	800.07

Downstream Bridge Cross Section Data

Station Elevation Data num= 17

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	862.7	95.8	807.1	124.9	800.5	151.5	800.8	160	798.4
170	798.4	182	800.07	216	800.07	300	800.3	400	809.6
458.6	813.5	537.8	811.2	593.4	812.8	716.2	828.1	824.8	828.1
824.8	850.8	855.7	855.6						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	151.5	.045	182	.03

Bank Sta: Left Right Coeff Contr. Expan.

151.5	182	.1	.3
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Upstream Embankment side slope = 2 horiz. to 1.0 vertical

Downstream Embankment side slope = 2 horiz. to 1.0 vertical

Maximum allowable submergence for weir flow = .98

Elevation at which weir flow begins =

Energy head used in spillway design =

Spillway height used in design =

Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data

Pier Station Upstream= 160 Downstream= 160

Upstream num= 2
Width Elev Width Elev
1 798.4 1 800.8
Downstream num= 2
Width Elev Width Elev
1 798.4 1 800.8

Pier Data
Pier Station Upstream= 170 Downstream= 170
Upstream num= 2
Width Elev Width Elev
1 798.4 1 800.8
Downstream num= 2
Width Elev Width Elev
1 798.4 1 800.8

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

BRIDGE OUTPUT Profile #PF 1

E.G. US. (ft)	807.17	Element	Inside BR US	Inside BR DS
W.S. US. (ft)	807.11	E.G. Elev (ft)	807.17	807.16
Q Total (cfs)	3123.00	W.S. Elev (ft)	807.09	807.09
Q Bridge (cfs)	12.51	Crit W.S. (ft)	802.53	802.53
Q Weir (cfs)		Max Chl Dpth (ft)	8.69	8.69
Weir Sta Lft (ft)		Vel Total (ft/s)	2.06	2.06
Weir Sta Rgt (ft)		Flow Area (sq ft)	1514.04	1513.09
Weir Submerg		Froude # Chl	0.12	0.12
Weir Max Depth (ft)		Specif Force (cu ft)	4992.26	4987.22
Min El Weir Flow (ft)	800.08	Hydr Depth (ft)	5.46	5.46
Min El Prs (ft)	800.80	W.P. Total (ft)	347.80	347.75
Delta EG (ft)	0.01	Conv. Total (cfs)	210537.8	210344.9
Delta WS (ft)	0.02	Top Width (ft)	277.21	277.15
BR Open Area (sq ft)	37.75	Frctn Loss (ft)	0.00	0.00
BR Open Vel (ft/s)	0.33	C & E Loss (ft)	0.00	0.00
Coef of Q		Shear Total (lb/sq ft)	0.06	0.06
Br Sel Method	Energy only	Power Total (lb/ft s)	0.12	0.12

CROSS SECTION

RIVER: Arnolds Creek
REACH: Reach 1 RS: 1315

INPUT

Description: CS-SiteB

Station Elevation Data num= 17

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	862.7	95.8	807.1	124.9	800.5	151.5	800.8	160	798.4
170	798.4	182	800.07	216	800.07	300	800.3	400	809.6
458.6	813.5	537.8	811.2	593.4	812.8	716.2	828.1	824.8	828.1
824.8	850.8	855.7	855.6						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	151.5	.045	182	.03

Bank Sta:	Left	Right	Lengths:			Left Channel	Right	Coeff	Contr.	Expan.
	151.5	182	45	45	45		.1	.3		

CROSS SECTION

RIVER: Arnolds Creek

REACH: Reach 1 RS: 1135

INPUT

Description: CS-5

Station Elevation Data num= 11

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	859.6	73.4	800	82.4	798.3	106.8	801	186.8	800.7
327.9	804.9	427.4	810.5	461.2	810.1	735.2	809.6	777.7	823.9
867.8	839.5								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	73.4	.045	106.8	.03

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	73.4	106.8		405	415	425	.1	.3

CROSS SECTION

RIVER: Arnolds Creek
REACH: Reach 1 RS: 720

INPUT

Description: CS-6

Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	910.93	30	903.2	141.8	831.3	168.4	819.6	200.5	801.9
217.9	798.2	229.6	798.2	253.5	799.2	281.02	814.34	306.3	824.1
466.3	826.6	540.98	831.03	585.6	825.6	692.8	875.8	727.7	886.3

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	200.5	.045	253.5	.03

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	200.5	253.5		390	395	400	.1	.3

CROSS SECTION

RIVER: Arnolds Creek
REACH: Reach 1 RS: 0

INPUT

Description: CS-7

Station Elevation Data num= 10

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	850.2	65.1	822.2	228.1	822.2	448.2	803.4	501.3	800
540.4	798	572.1	800	629.3	805.8	739.9	859.7	755.9	859.7

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	501.3	.045	572.1	.03

Bank Sta:	Left	Right	Coeff	Contr.	Expan.
	501.3	572.1	.1	.3	

SUMMARY OF MANNING'S N VALUES

River: Arnolds Creek

Reach	River Sta.	n1	n2	n3
Reach 1	2294	.03	.045	.03
Reach 1	1899	.03	.045	.03
Reach 1	1579	.03	.045	.03
Reach 1	1509	.03	.045	.03
Reach 1	1360	.03	.045	.03
Reach 1	1335	Bridge		
Reach 1	1315	.03	.045	.03
Reach 1	1135	.03	.045	.03
Reach 1	720	.03	.045	.03
Reach 1	0	.03	.045	.03

SUMMARY OF REACH LENGTHS

River: Arnolds Creek

Reach	River Sta.	Left	Channel	Right
Reach 1	2294	718	720	722
Reach 1	1899	414.99	414.99	414.99
Reach 1	1579	198	200	202
Reach 1	1509	144	149	151
Reach 1	1360	45	45	45
Reach 1	1335	Bridge		
Reach 1	1315	45	45	45
Reach 1	1135	405	415	425
Reach 1	720	390	395	400
Reach 1	0			

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS

River: Arnolds Creek

Reach	River Sta.	Contr.	Expan.
Reach 1	2294	.1	.3
Reach 1	1899	.1	.3
Reach 1	1579	.1	.3
Reach 1	1509	.1	.3
Reach 1	1360	.1	.3
Reach 1	1335	Bridge	
Reach 1	1315	.1	.3
Reach 1	1135	.1	.3
Reach 1	720	.1	.3
Reach 1	0	.1	.3