

Doddridge County Sheriff  
Flood Plain Ordinance Fund

1068

69-217/515

DATE December 17, 2013

PAY TO THE ORDER OF THE HERALD RECORD

\$ 106.28

One Hundred Six Dollars and 28/100

DOLLARS

Security features included. Details on back.



Inv#: 2881/2882/2883/3002 and 3007

MEMO Permit #: 13-095 #13-092 #13-088 #13-099 #13-098

*Ralph Sandora Jr.*  
*Bethel Rogers*  
MP Sheriff

⑈001068⑈ ⑈051502175⑈ ⑈119649⑈9⑈

BLUE TRADITIONAL

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	\$ .46
Certified Fee	3.10
Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 6.11</b>



#13-095

Sent To William & Deanna Davis

Street, Apt. No., or PO Box No. Rt. 2, Box 168

City, State, ZIP+4 West Union, WV 26456

PS Form 3800, August 2006

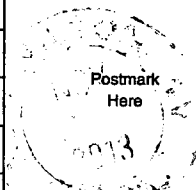
See Reverse for Instructions

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<b>Total Postage &amp; Fees</b>	<b>\$ 6.11</b>



#13-095

Sent To Ronald Yerkey

Street, Apt. No., or PO Box No. Rt. 2, Box 172

City, State, ZIP+4 West Union, WV 26456

PS Form 3800, August 2006

See Reverse for Instructions

U.S. Postal Service™  
**CERTIFIED MAIL™ RECEIPT**  
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Return Receipt Fee (Endorsement Required)	2.55
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$ 6.11</b>



#13-095

Sent To Barbara J. Yerkey

Street, Apt. No., or PO Box No. Rt. 2 Box 169

City, State, ZIP+4 West Union, WV 26456

PS Form 3800, August 2006

See Reverse for Instructions

7011 0470 0000 8523 2815

7011 0470 0000 8523 2792

7011 0470 0000 8523 2802

**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: #13-095  
 Ronald Yerkey  
 Rt. 2, Box 72  
 West Union, WV

**FILED**  
**2013 DEC -2 AM 11:00**  
**BETH A. ROBERTS**  
**COUNTY CLERK**  
**ODDRIDGE COUNTY, WV**

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
*Debbie Yerkey*  Agent  Addressee

B. Received by (Printed Name) C. Date of Delivery  
*Debbie Yerkey* **11-27-13**

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

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Transfer from service label) **7011 0470 0000 8523 2792**

*(Antero)*  
 Temp. Bridge  
 # 42740 = 1000.00  
 Mo:  
 App 12/11/13

*13-095*

---

Call Shayne

**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: #13-095

William & Deanna Davis  
Rt. 2, box 168  
West Union, WV 26456

2. Article Number  
(Transfer from service label)

7011 0470 0000 8523 2815

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *William & Deanna Davis*

Agent

Addressee

B. Received by (Printed Name)

*William & Deanna Davis*

C. Date of Delivery

*11-23-13*

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



**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: #13-095

Barbara J. Yerkey  
Rt. 2, Box 169  
West Union, WV 26456

2. Article Number  
(Transfer from service label)

7011 0470 0000 8523 2808

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

*Barbara J. Yerkey*

Agent  
 Addressee

B. Received by (Printed Name)

*Barbara J. Yerkey*

C. Date of Delivery

*1/23-13*

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. 941

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

BETH A ROGERS  
DODDRIDGE COUNTY CLERK  
118 E. COURT ST  
ROOM 102  
WEST UNION, WV 26456

BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

2013 NOV 25 PM 12:35

FILED





ANTERO RESOURCES CORPORATION  
 1625 17th STREET, SUITE 300  
 DENVER, COLORADO 80202

Vendor Name	Vendor No.	Date	Check Number	Check Total
DODDRIDGE COUNTY COMMISSION	43312	Dec-03-2013	43699	\$500.00

VOUCHER	VENDOR INV #	INV DATE	TOTAL AMOUNT	PRIOR PMTS & DISCOUNTS	NET AMOUNT
12-AP-697	EANWATERLINE	12/03/13	500.00	0.00	500.00
Canton Temporary Bridge Pearl Jean Waterline					500.00
TOTAL INVOICES PAID					

Permit # 13-095  
 Pearl Jam to Forest Waterline  
 Temporary Bridge

FILED  
 2013 DEC -5 PM 4:38  
 BETH A. ROGERS  
 COUNTY CLERK  
 DODDRIDGE COUNTY, WV

DETACH AND RETAIN FOR TAX PURPOSES

By: BH - MEH - AML  
 Asst. Chief Tax Deputy

W. C. Underwood Jr.  
 Sheriff of Doddridge County

The Person paying Money into the Treasury shall forthwith file one of these Receipts with the County Clerk

### Doddridge County, West Virginia

No. 1057

Date: December 6, 2013  
 \*\*\*Customer copy\*\*\*

Received: #13-095 antero pearl Jam to Forest Waterline Temporary Brid \$500.00

In Payment For: 318 Building Permits (LP)

For: 12-Flood Plain Ordinance #20 Fund

By: BH - MEH - AML  
 Asst. Chief Tax Deputy

W. C. Underwood Jr.  
 Sheriff of Doddridge County

**Doddridge County Flood Plain Application Fee Calculator (if in Flood Plain)**

**North/ South Canton Temporary Bridge**

Estimated Construction Costs	\$55,000.00
Amount over \$100,000	\$0.00
Drilling Oil and Gas Well Fee	\$1,000.00
\$5 per \$1,000 over \$100,000	\$0.00
Amount Due with application	\$1,000.00

*\$500.00*



LOCATION PERMIT FEES

Accessory Building and/or Structures ..... \$ 5.00  
(examples: garage, storage or farm building, carport)

Additions and/or Renovations to Single Family Residential <sup>OR</sup> Manufacture Homes  
UP TO \$50,000.00 ..... \$10.00

Additions and/or Renovations to Single Family Residential or Manufacture Homes  
OVER \$50,000.00 ..... \$10.00

Single Family Residential UP TO \$50,000.00 ..... \$25.00

~~Manufactured Homes - described as having permanent axle and frame ..... ~~NONE~~~~

Multi-Family ..... \$25.00  
Residential and other buildings and structures, including additions and renovations to existing structures.

New Commercial Structures or Renovations to existing Commercial Structures, Commercial Land Use Changes and Land Altering Activities ..... \$250.00  
(Includes buildings used for business purposes the total costs of which do not exceed \$50,000.00.)

New commercial Structures or Additions or Renovations to Existing Commercial Structures, Commercial Land Use Changes and Land Altering Activities ..... \$350.00  
(the total costs of which exceed \$50,000.00 plus \$2.00 per \$1,000.00 to cover costs over \$50,000.00)

New Industrial Structures or Additions or Renovations to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes. (the total costs of which do not exceed \$100,000.00) ..... \$500.00

Total cost for Temporary Bridge = approx. \$ 55,000<sup>00</sup>

New Industrial Structures or Additions or Renovations to Existing Industrial Structures, changes in Land Use and Land Altering Activities for Industrial purposes. (the total costs of which exceed \$100,000.00 plus \$5.00 per \$1,000.00 in costs over \$100,000.00.) ..... \$1,000.00

FEE FOR DRILLING OIL & GAS WELL ..... \$1,000.00  
*IN FEMA DESIGNATED FLOOD PLAIN*

Maximum Fee: In no event shall any Location Permit Fee charged under this Ordinance exceed the sum of \$100,000.00.

---

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 21<sup>st</sup> day of November, 2013

**ANTERO RESOURCES CORPORATION – PEARL JAM TO  
FOREST WATER LINE TEMPORARY BRIDGE PERMIT #13-095**

filed an

application for a Floodplain Permit to develop land located at or  
about: **SURFACE OWNERS: RONALD YERKEY, GRANT DISTRICT,  
DEED BOOK: 275/64, TAX MAP: 9/9**

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 **December 11, 2013.**

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

TRANSACTION REPORT

P. 01

NOV-21-2013 THU 01:06 PM

FOR: DODDRIDGE CO. CLERK

304 873 1840

SEND

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
NOV-21	01:05 PM	93048731600	26"	1	FAX TX	OK	728	
TOTAL :						26S PAGES:	1	

Legal Advertisement:  
 Doddridge County  
 Floodplain Permit Application

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

Beth A Rogers, Doddridge County Clerk  
 Dan Wellings, Doddridge County Flood Plain Manager

PERMIT NO. 13-095

**DODDRIDGE COUNTY**  
**FLOODPLAIN DEVELOPMENT**  
**PERMIT**

PURPOSE FOR PERMIT: Temporary bridge

ISSUED TO Antero

1625 17TH STREET

ADDRESS: DENVER CO.

PROJECT ADDRESS: BIG FLINT RUN

ISSUED BY: Dan Wolcott

DATE: 12/11/2013

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.



November 15, 2013

Antero Resources  
1625 17th Street  
Denver, Colorado 80202  
Office 303.357.7310  
Fax 303.357.7315

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

Mr. Wellings:

Antero Resources Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our North/South Canton Temporary Road Bridge. Our project is located in Doddridge County, Grant District. Per the enclosed hydrologic analysis study, "no adjacent structures are anticipated to be impacted by the temporary bridge."

Attached you will find the following:

- Doddridge County Floodplain Permit Application and required fees
- FIRM Map
- Plat Exhibit
- Stream Crossing Floodplain Analysis

If you have any questions please feel free to contact me at (303) 357-6820.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Shauna Redican".

Shauna Redican  
Permit Representative  
Antero Resources Appalachian Corporation

Enclosures

# **Antero Resources Corporation**

**Pearl Jean Impoundment to Forest Pad Water Line (North/South Canton)**

**Access Road Temporary Bridge**

**THRASHER GROUP, INC. PROJECT # 101-010-0715**

DODDRIDGE COUNTY

FLOODPLAIN PERMIT



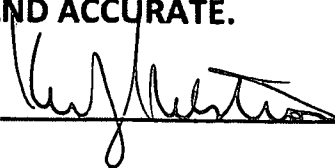
**DODDRIDGE COUNTY  
FLOODPLAIN DEVELOPMENT PERMIT APPLICATION**

# 13-095  
Pearl Jam to  
Forest Water Line  
Temporary Bridge

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

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

APPLICANT'S SIGNATURE



DATE November 15, 2013

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

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

**APPLICANT'S NAME:** Antero Resources Corporation - Kevin Kilstrom, VP of Production

**ADDRESS:** 1625 17th Street Denver, CO 80202

**TELEPHONE NUMBER:** Contact Shauna Redican: 303-357-6820

**BUILDER'S NAME:** Unknown at this time  
**ADDRESS:** \_\_\_\_\_  
**TELEPHONE NUMBER:** \_\_\_\_\_

**ENGINEER'S NAME:** Jeff Gola, PE, Thrasher Group, Inc  
**ADDRESS:** 600 White Oaks Blvd, Bridgeport, WV, 26330  
**TELEPHONE NUMBER:** (304) 624-4108

**PROJECT LOCATION:**

**NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)** \_\_\_\_\_

**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**



**ACTIVITY**

**STRUCTURAL TYPE**

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

**B. OTHER DEVELOPMENT ACTIVITIES:**

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

**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 \$ 55,000.00**

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

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

**NAME:** Please see attached.  
 \_\_\_\_\_  
**ADDRESS:** \_\_\_\_\_  
 \_\_\_\_\_

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

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

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

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

**NAME:** Please see attached.  
 \_\_\_\_\_  
**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.

**Project Location Property Owner**

Dist. Name	Dist	Map	Par	Sub	Owner	Address	City, St., Zip	Location	Book	Page	Legal Desc.
GRANT	3	9	9		YERKEY RONALD	RT 2 BOX 172	WEST UNION, WV 26456	RT 3	275	64	BIG FLINT 74.5 AC

**Adjacent Property Owner \*Below**

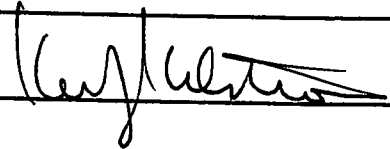
Dist. Name	Dist	Map	Par	Sub	Owner	Address	City, St., Zip	Location	Book	Page	Legal Desc.
GRANT	3	9	11		YERKEY RONALD	RT 2 BOX 172	WEST UNION, WV 26456	RT 3	275	64	BIG FLINT 42.8 AC
GRANT	3	9	23		YERKEY RONALD	RT 2 BOX 172	WEST UNION, WV 26456	OFF RT 3	275	64	BIG FLINT 34.5 AC
GRANT	3	9	24		YERKEY BARBARA J	RT 2 BOX 169	WEST UNION, WV 26456	RT 3	WB39	435	BIG FLINT 54.93 AC
GRANT	3	9	24	1	DAVIS DEANNA & WILLIAM (SURV)	RT 2 BOX 168	WEST UNION, WV 26456		215	129	BIG FLINT .35 AC

**Adjacent Property Owners \*Above**

Dist. Name	Dist	Map	Par	Sub	Owner	Address	City, St., Zip	Location	Book	Page	Legal Desc.
GRANT	3	9	19		YERKEY RONALD	RT 2 BOX 172	WEST UNION, WV 26456	RT 3	275	64	BIG FLINT 26 AC

- (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): Kevin Kilstrom, VP of Production

SIGNATURE:  DATE: November 15, 2013

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: 130  
 Dated: 10/04/2011

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 A  
 100-Year flood elevation is: N/A to 0.75 NGVD ~~(MSL)~~

Unavailable

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

See section 4 for additional instructions.

SIGNED Dan Welton

DATE 12/11/2013

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

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

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

Other:

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

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

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

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

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

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

County Commission Decision - Approved  Yes  No

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

**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** \_\_\_\_\_



Antero

13-095



12/05/2013



B. J. W.

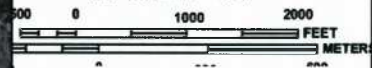




**DODDRIDGE COUNTY  
UNINCORPORATED AREAS  
540024**



MAP SCALE 1" = 1000'



PANEL 0130C

**FIRM**

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

PANEL 130 OF 325  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS	MAPS	PANEL	SHEETS
DODDRIDGE COUNTY	540024	0130	C

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

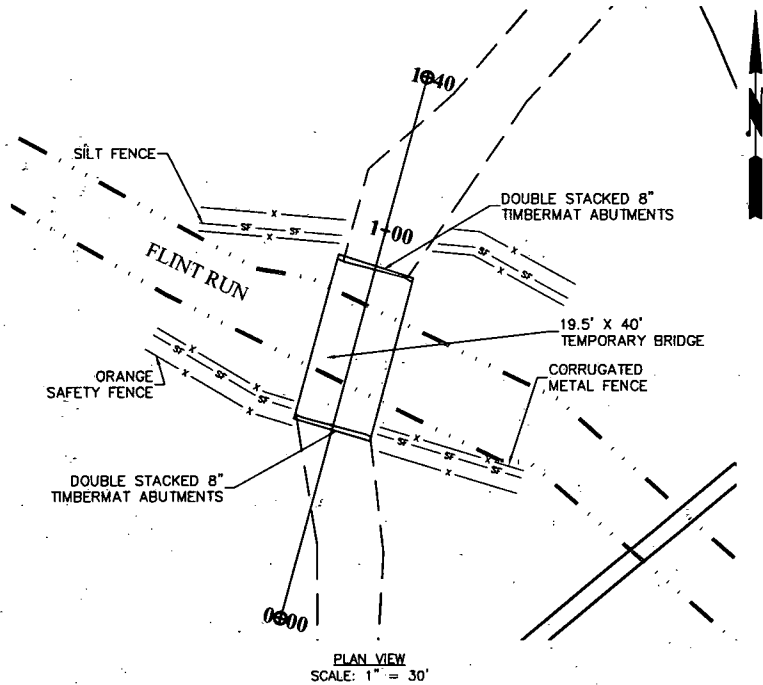


MAP NUMBER  
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MAP REVISED  
OCTOBER 4, 2011

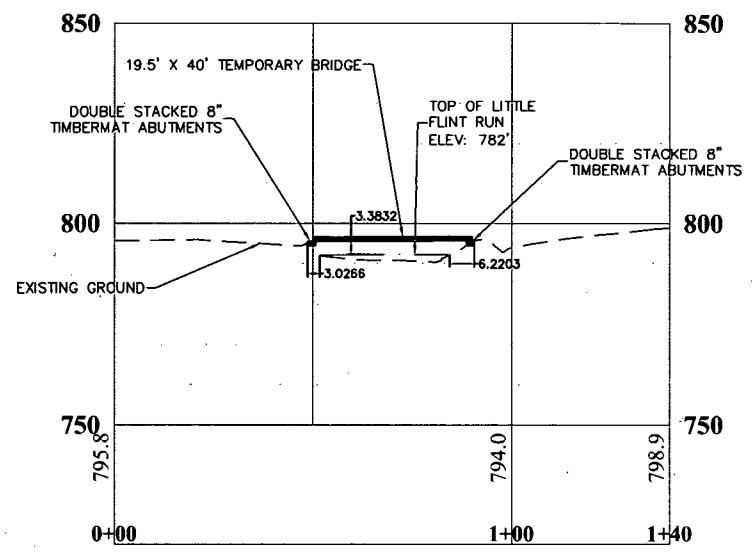
Federal Emergency Management Agency

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





PLAN VIEW  
SCALE: 1" = 30'



PROFILE VIEW  
SCALE: 1" = 30'

**LEGEND/ABBREVIATIONS**

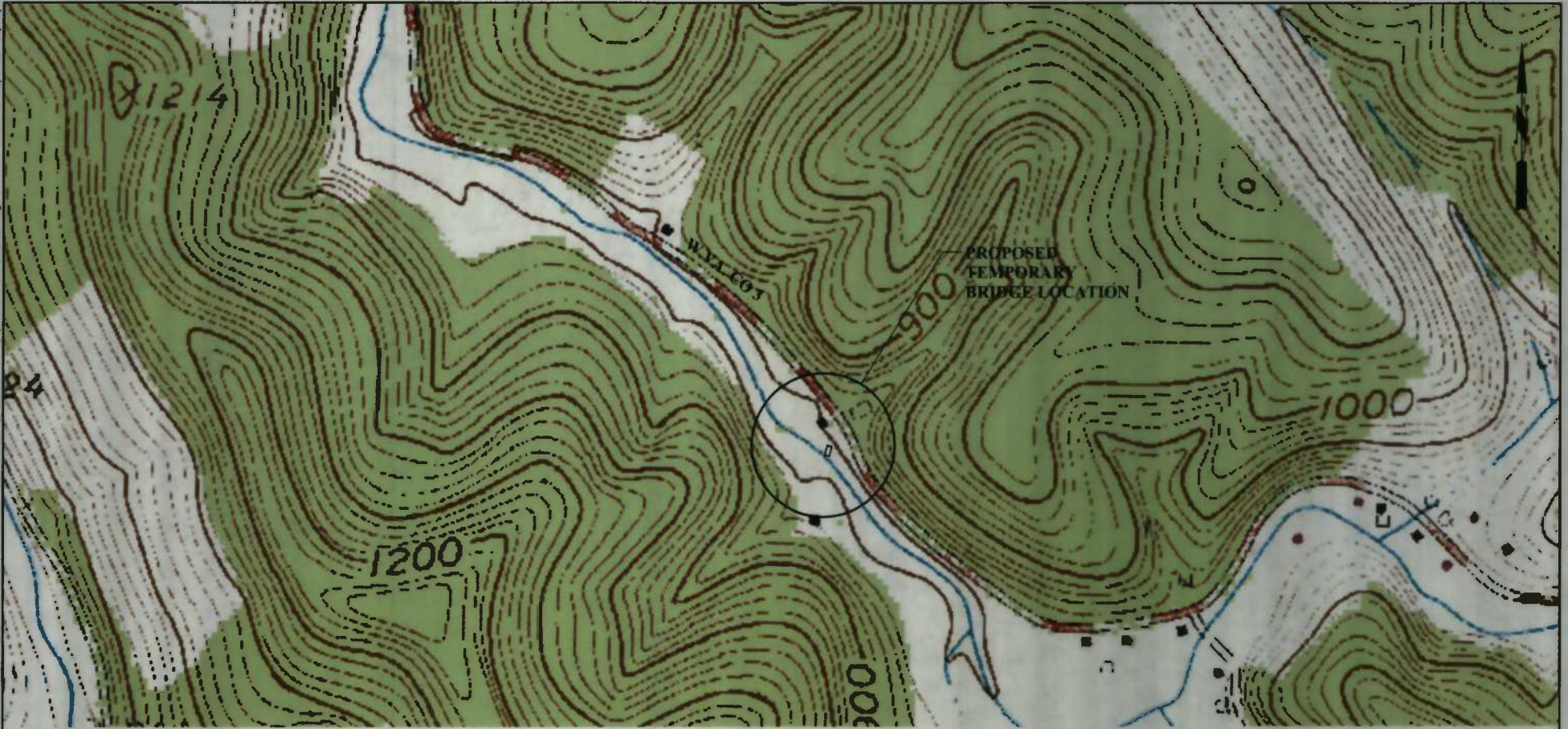
---	= PERMANENT RIGHT-OF-WAY
- - - -	= CONSTRUCTION RIGHT-OF-WAY
---	= GAS
- - - -	= PROPOSED 20" STEEL GAS LINE
x	= CORRUGATED METAL FENCE
sf	= SILT FENCE
x	= ORANGE SAFETY FENCE
- - - -	= EDGE OF STREAM
---	= EXISTING GROUND
---	= PIPELINE PROFILE

**THRASHER**  
THE THRASHER GROUP, INC.  
600 WHITE OAKS BOULEVARD  
P.O. BOX 940  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

PLAT OF EXHIBIT FOR ANTERO RESOURCES CORPORATION			
TAX MAP	N/A	SHOWING TEMPORARY BRIDGE FOR THE CANTON PEARL JEAN TO FOREST WATERLINE SITUATE	
PARCEL No.	N/A	GRANT DISTRICT	DODDRIDGE COUNTY
JOB. No.	010-0715	WEST VIRGINIA	
		SCALE: AS SHOWN	OCTOBER 2013

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SITE VIEW  
SCALE: 1" = 400'

**THRASHER**

THE THRASHER GROUP, INC.

600 WHITE OAKS BOULEVARD  
P.O. BOX 940  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

PLAT OF EXHIBIT FOR ANTERO RESOURCES CORPORATION	
TAX MAP N/A	SHOWING TEMPORARY BRIDGE SITE FOR THE CANTON PEARL JEAN TO FOREST PAD WATERLINE SITUATE
PARCEL No. N/A	GRANT DISTRICT WEST VIRGINIA
JOB. No. 010-0715	DODDRIDGE COUNTY SCALE: AS SHOWN OCTOBER 2013

**STREAM CROSSING  
FLOODPLAIN ANALYSIS**

**ANTERO – FLINT RUN  
TEMPORARY STREAM CROSSING  
DODDRIDGE COUNTY, WV**

**NOVEMBER 2013**

**PREPARED FOR:**

**ANTERO RESOURCES CORPORATION**

**ANTERO – FLINT RUN TEMPORARY STREAM CROSSING  
DODDRIDGE COUNTY, WV**

**TABLE OF CONTENTS**

	<u>SECTION</u>	<u>PAGE</u>
1.0	PROJECT DESCRIPTION.....	1
2.0	HYDROLOGIC ANALYSIS.....	1
3.0	CONCLUSIONS.....	1

**APPENDICES**

1	HEC-RAS SUMMARY TABLE
2	HEC-RAS CROSS SECTIONS
3	SITE PLAN

## **ANTERO – FLINT RUN TEMPORARY STREAM CROSSING DODDRIDGE COUNTY, WEST VIRGINIA**

### **1.0 PROJECT DESCRIPTION**

The Thrasher Group has been contracted by Antero to perform a hydrologic study on a temporary stream crossing that was previously installed to acquire access to a pipeline and make repairs to a slip site. The crossing is located off of Big Flint Road C.R. 3 approximately 1 mile south of C.R. 5 intersection.

### **2.0 HYDROLOGIC ANALYSIS**

To determine how the temporary crossing has affected the existing flood plain, a hydrology and hydraulic analysis was performed. The site is located in the FEMA Flood Zone 'A.' and therefore, no detailed flood study or base flood elevation has been established. The hydrologic data and flow was gathered by using USGS Quad Maps and the USGS Regional Regression Equations for Rural Areas. The drainage area is 10.19 square miles and produced a flow of 2,868 cfs for a 100 year storm event. Survey of the surrounding area and crossing was performed. Cross sections were created from the surface and inserted into HEC-RAS. A hydraulic model was run on Flint Run to produce an existing base flood elevation.

The proposed crossing was then added to the model to provide a comparison between the existing and proposed stream conditions.

### **3.0 CONCLUSION**

The existing flood plain elevation immediately upstream of the temporary bridge was found to be 797.68'. Looking at the analysis 100 feet upstream of the crossing the proposed backwater elevation increased by 0.75'. According to the aerial mapping of the area this increase in the flood plain elevation still does not appear to impact any structures in the area. The WVDOH Drainage manual and FEMA states that with no known base flood elevation, the temporary crossing is not to cause more than one foot of cumulative increase to the approximate flood elevation (this was derived through HEC-RAS). Our analysis falls within these requirements; however no increase in backwater is always a goal. Appendix 1 includes a summary table of the 100 year flood plain elevations for both existing and proposed stream conditions and the elevation differences at each analyzed section.



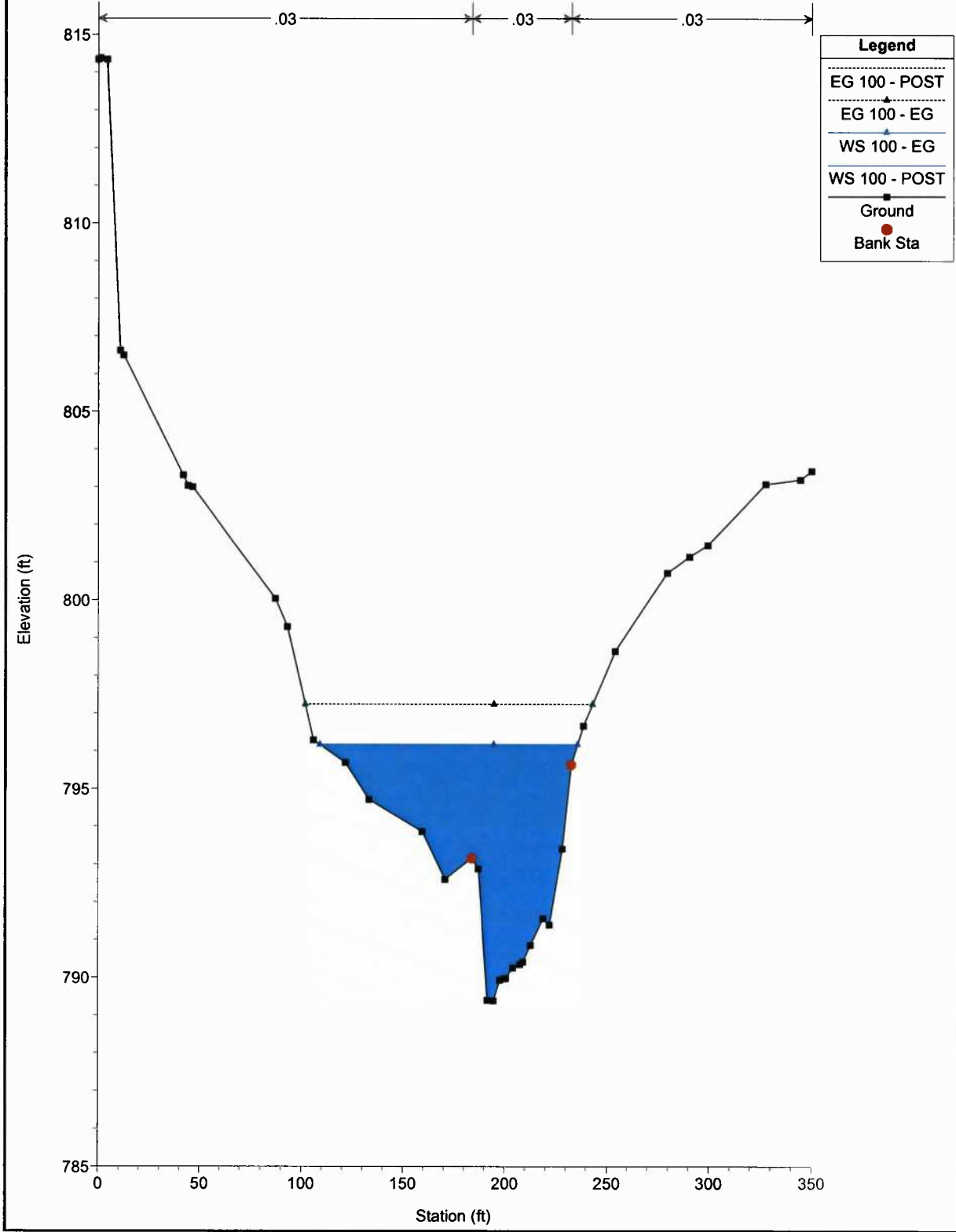
**APPENDIX 1**  
**HEC-RAS SUMMARY TABLES**

HEC-RAS River: RIVER Reach: STREAM ALIGNMENT Profile: 100

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area <sup>2</sup> (sq ft)	Top Width (ft)	Froude # Chl
STREAM ALIGNMENT	1275	100	POST	2887.56	789.78	798.82		799.39	0.001344	7.00	689.11	144.05	0.44
STREAM ALIGNMENT	1275	100	EG	2887.56	789.78	798.07		798.85	0.002027	8.05	584.23	134.84	0.53
STREAM ALIGNMENT	1250	100	POST	2887.56	789.07	798.92		798.31	0.000888	5.29	699.73	145.87	0.35
STREAM ALIGNMENT	1250	100	EG	2887.56	789.07	798.22		798.73	0.001274	6.00	601.31	135.50	0.41
STREAM ALIGNMENT	1225	100	POST	2887.56	789.51	798.89		798.28	0.001488	6.73	643.71	147.69	0.45
STREAM ALIGNMENT	1225	100	EG	2887.56	789.51	797.83		798.65	0.002323	7.98	522.31	131.99	0.55
STREAM ALIGNMENT	1200	100	POST	2887.56	789.94	798.66		799.22	0.001564	6.94	706.88	191.81	0.46
STREAM ALIGNMENT	1200	100	EG	2887.56	789.94	797.60		798.57	0.003173	8.85	518.97	161.02	0.64
STREAM ALIGNMENT	1175	100	POST	2887.56	790.18	798.72	796.40	799.15	0.001121	5.87	694.85	181.28	0.39
STREAM ALIGNMENT	1175	100	EG	2887.56	790.18	797.68		798.44	0.002295	7.54	518.02	164.48	0.55
STREAM ALIGNMENT	1152.99			Bridge									
STREAM ALIGNMENT	1125	100	POST	2887.56	790.85	798.58	796.58	798.17	0.006978	10.39	299.47	99.78	0.90
STREAM ALIGNMENT	1125	100	EG	2887.56	790.85	796.58	796.58	798.17	0.006978	10.39	299.47	99.78	0.90
STREAM ALIGNMENT	1100	100	POST	2887.56	790.41	795.94	795.94	797.55	0.008249	11.38	310.03	98.69	0.90
STREAM ALIGNMENT	1100	100	EG	2887.56	790.41	795.94	795.94	797.55	0.008249	11.38	310.03	98.69	0.90
STREAM ALIGNMENT	1075	100	POST	2887.56	789.38	798.17		797.24	0.004329	9.11	379.39	126.70	0.73
STREAM ALIGNMENT	1075	100	EG	2887.56	789.38	798.17		797.24	0.004329	9.11	379.39	126.70	0.73
STREAM ALIGNMENT	1050	100	POST	2887.56	788.84	798.31		797.05	0.002799	7.74	481.91	152.89	0.59
STREAM ALIGNMENT	1050	100	EG	2887.56	788.84	798.31		797.05	0.002799	7.74	481.91	152.89	0.59
STREAM ALIGNMENT	1025	100	POST	2887.56	788.88	798.30	795.60	798.98	0.002708	7.25	485.79	169.78	0.58
STREAM ALIGNMENT	1025	100	EG	2887.56	788.88	798.30	795.60	798.98	0.002708	7.25	485.79	169.78	0.58
STREAM ALIGNMENT	1000	100	POST	2887.56	788.84	795.55	795.55	798.80	0.005282	9.78	383.08	143.48	0.79
STREAM ALIGNMENT	1000	100	EG	2887.56	788.84	795.55	795.55	798.80	0.005282	9.78	383.08	143.48	0.79

**APPENDIX 2**  
**HEC-RAS CROSS-SECTIONS**

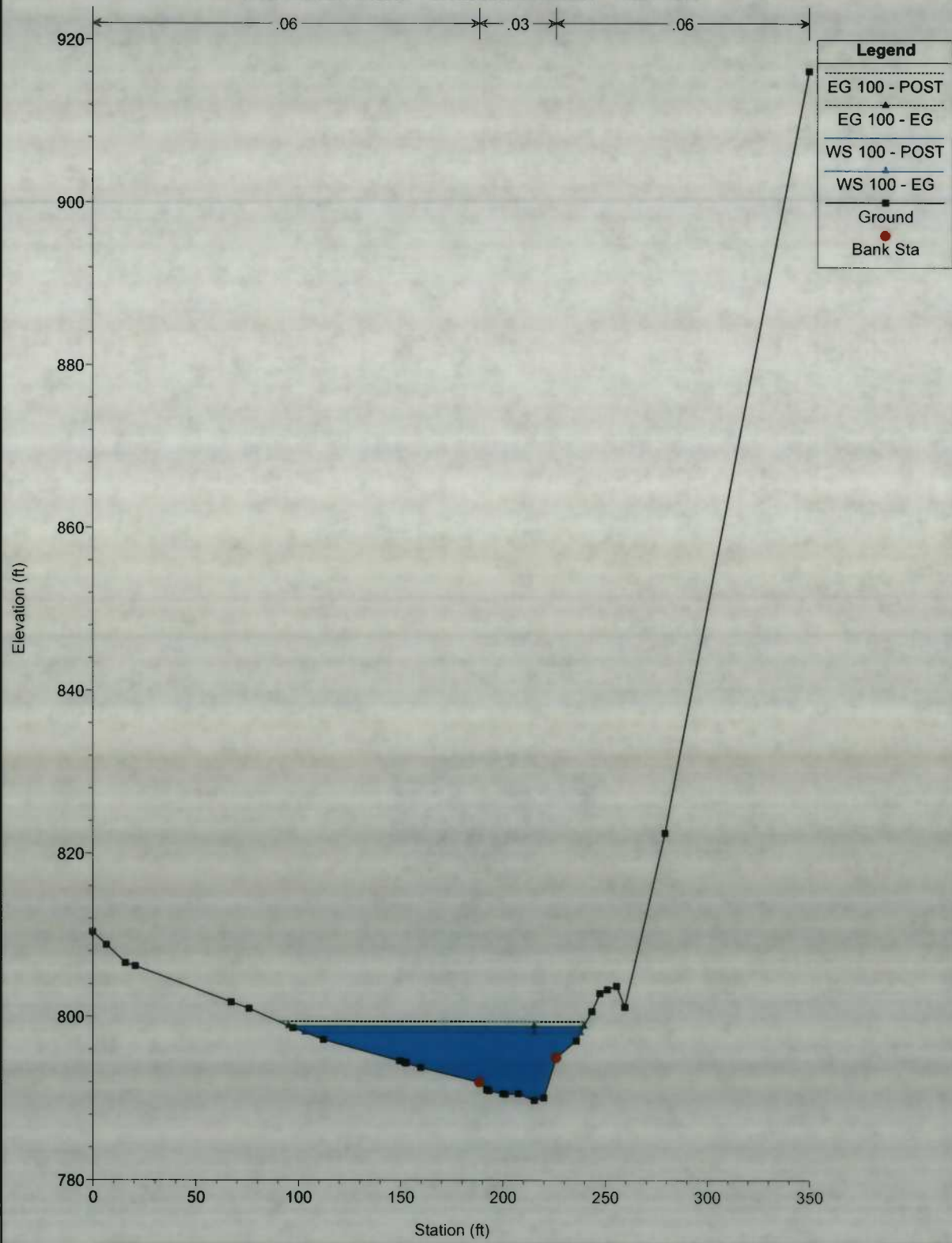
H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013  
 Geom: EXISTING CONDITION Flow: EXISTING  
 River = RIVER Reach = STREAM ALIGNMENT RS = 1075



H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: EXISTING CONDITION Flow: EXISTING

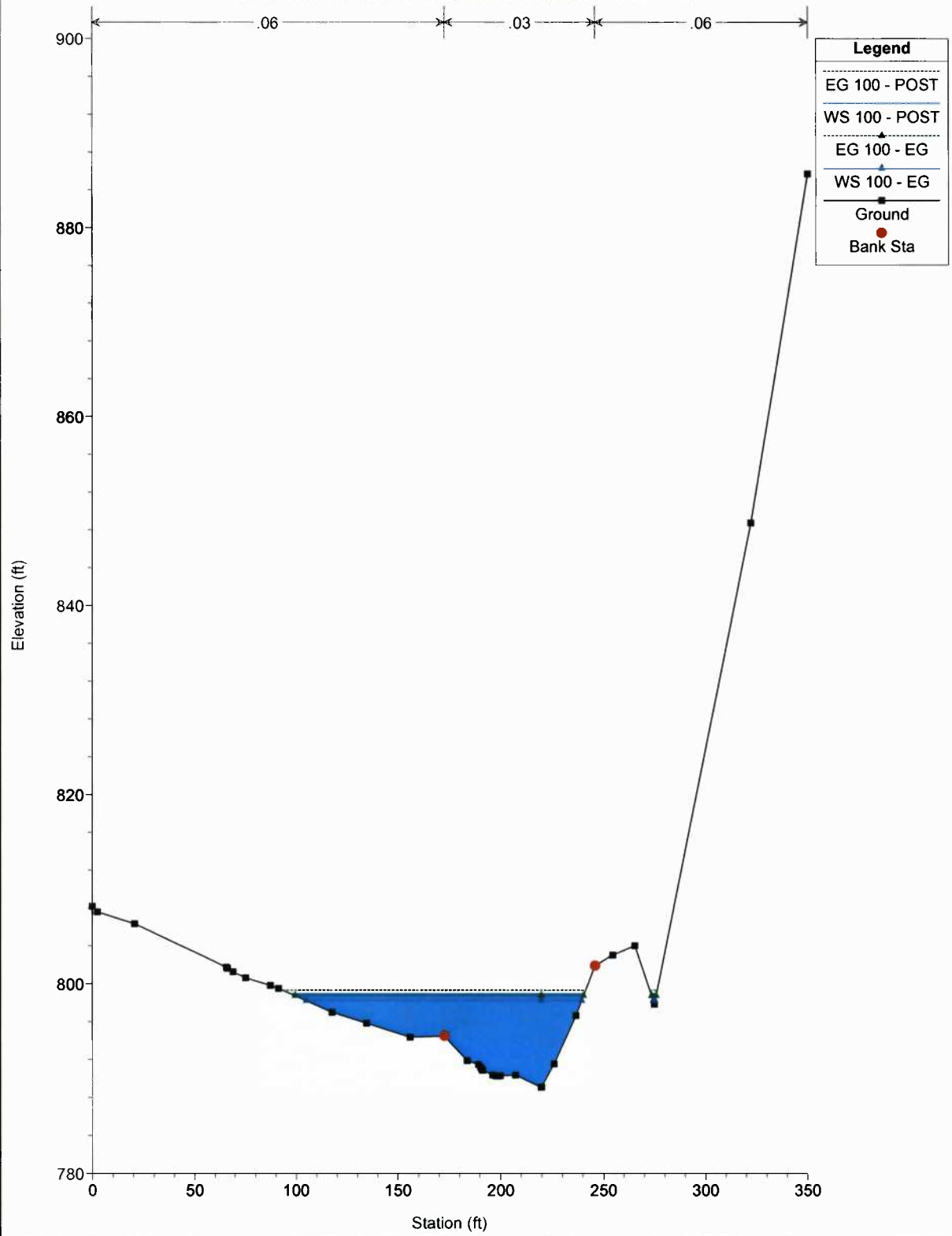
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: EXISTING CONDITION Flow: EXISTING

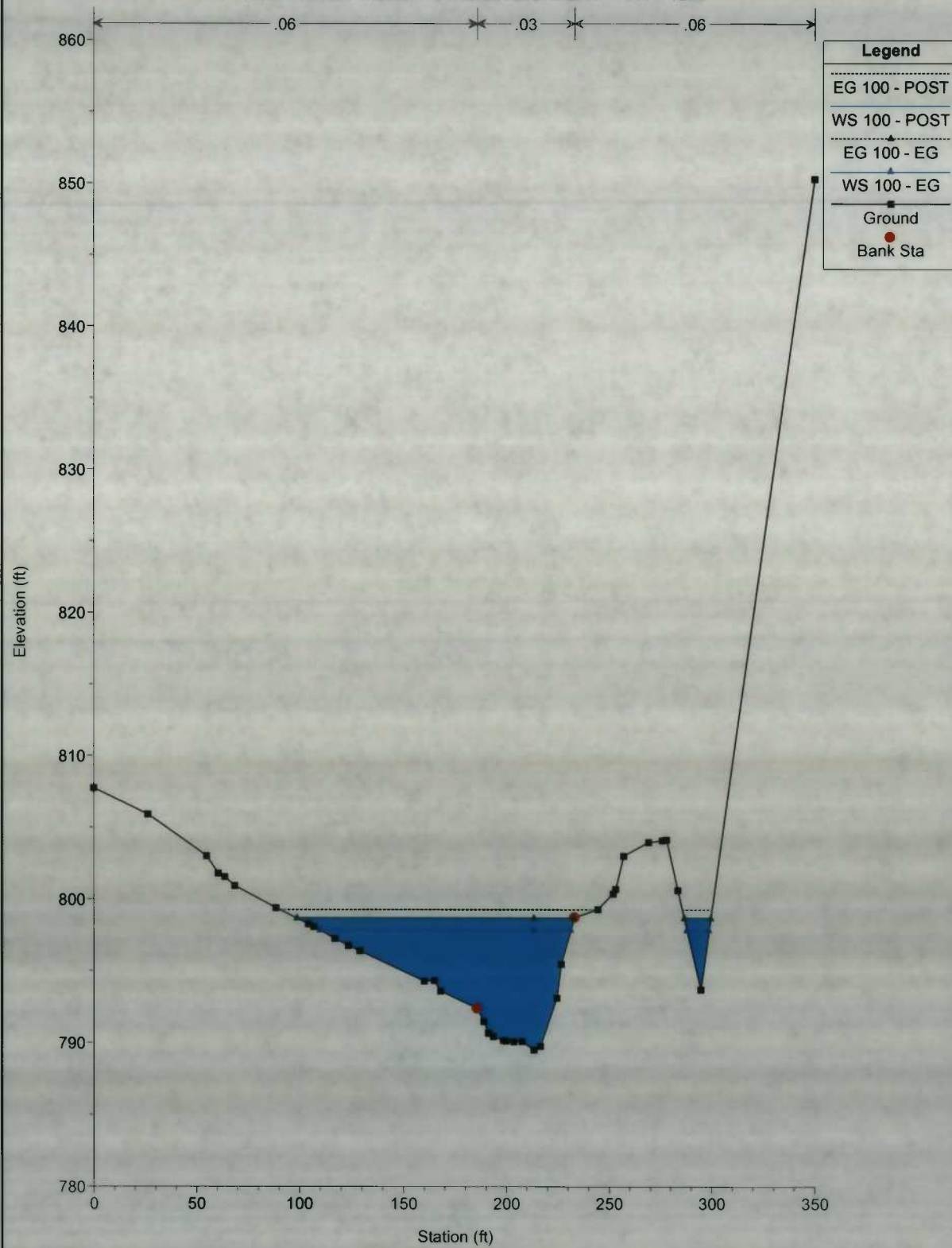
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: EXISTING CONDITION Flow: EXISTING

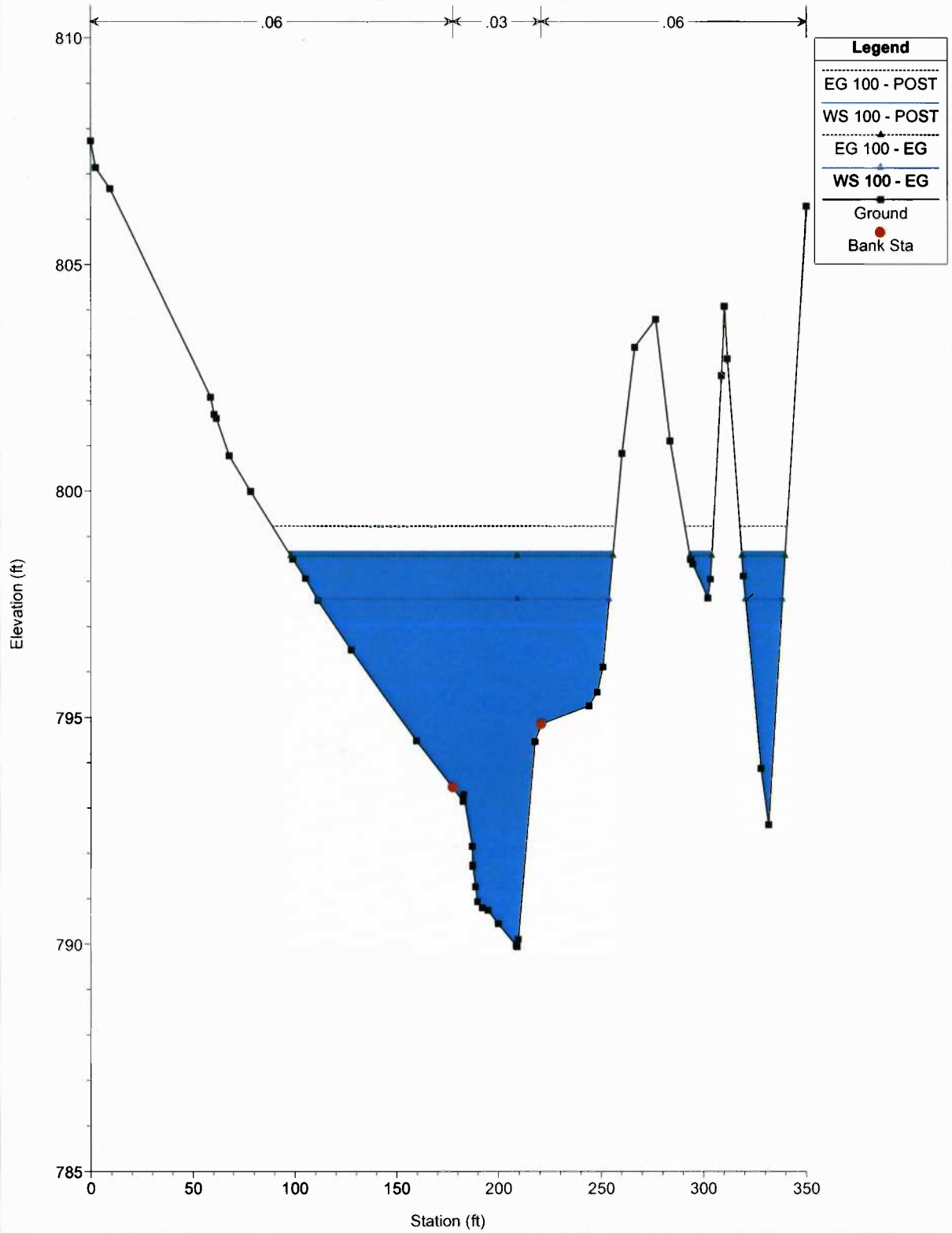
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

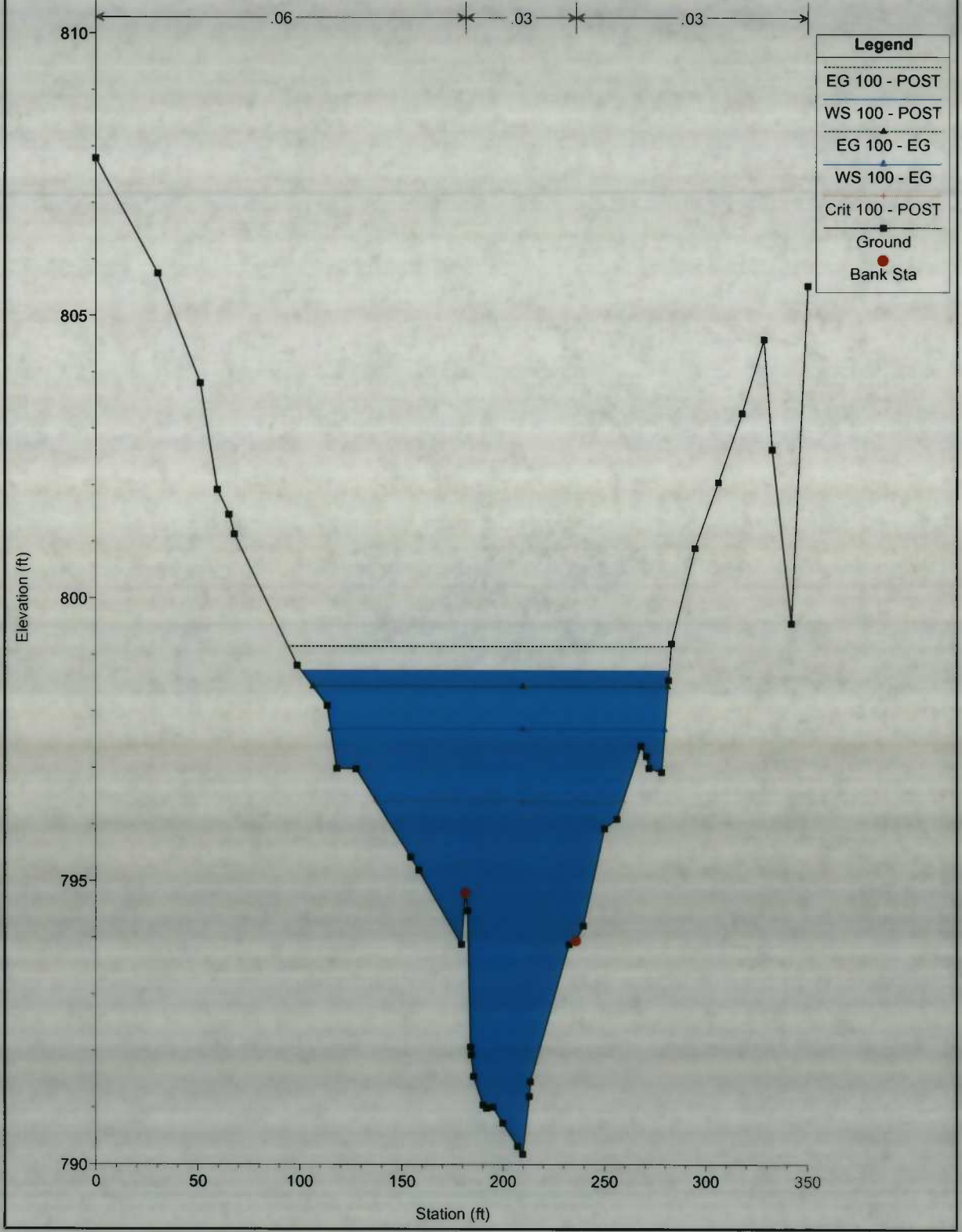
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River = RIVER Reach = STREAM ALIGNMENT RS = 1200





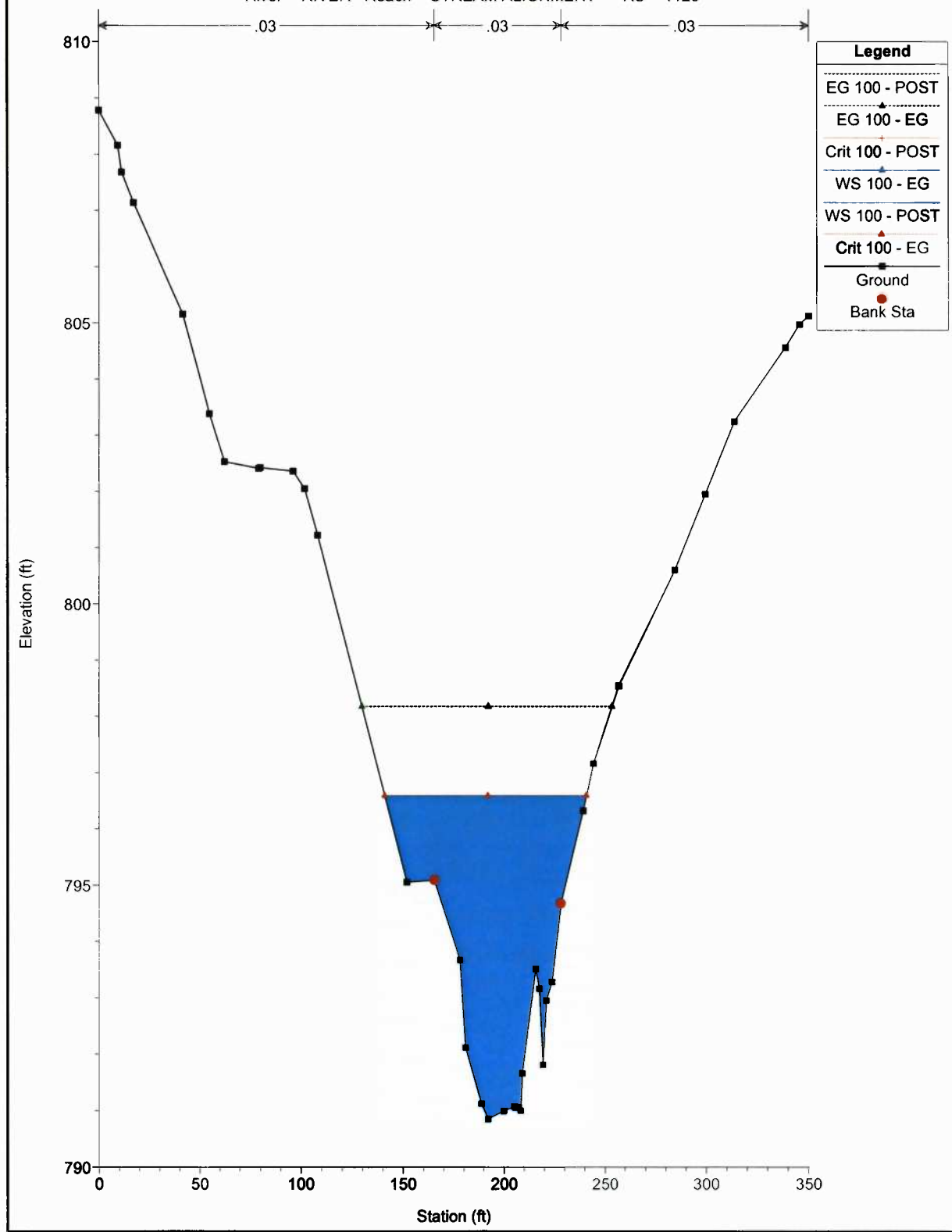
H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013  
 Geom: EXISTING CONDITION Flow: EXISTING  
 River = RIVER Reach = STREAM ALIGNMENT RS = 1175



H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: EXISTING CONDITION Flow: EXISTING

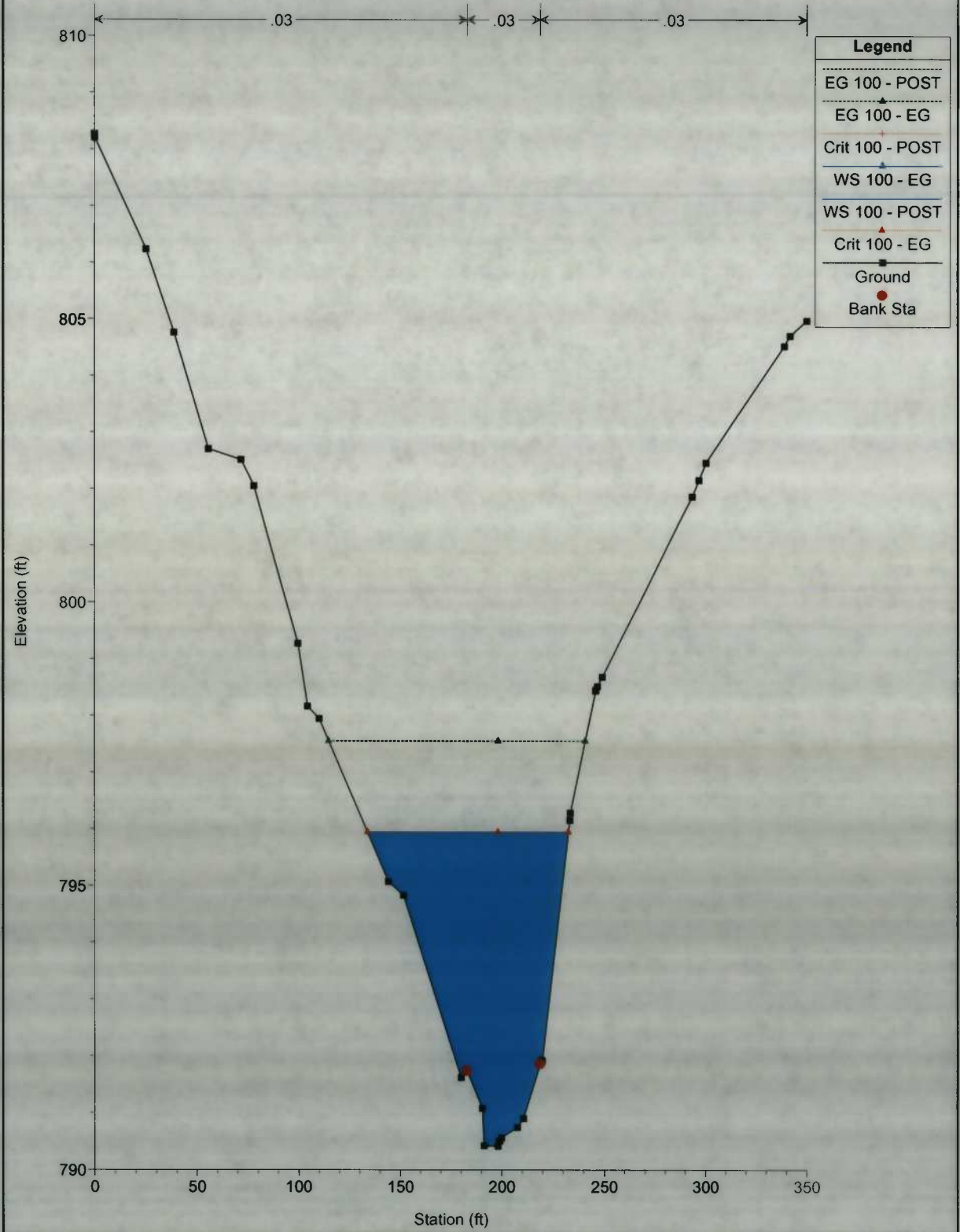
River = RIVER Reach = STREAM ALIGNMENT RS = 1125



H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: EXISTING CONDITION Flow: EXISTING

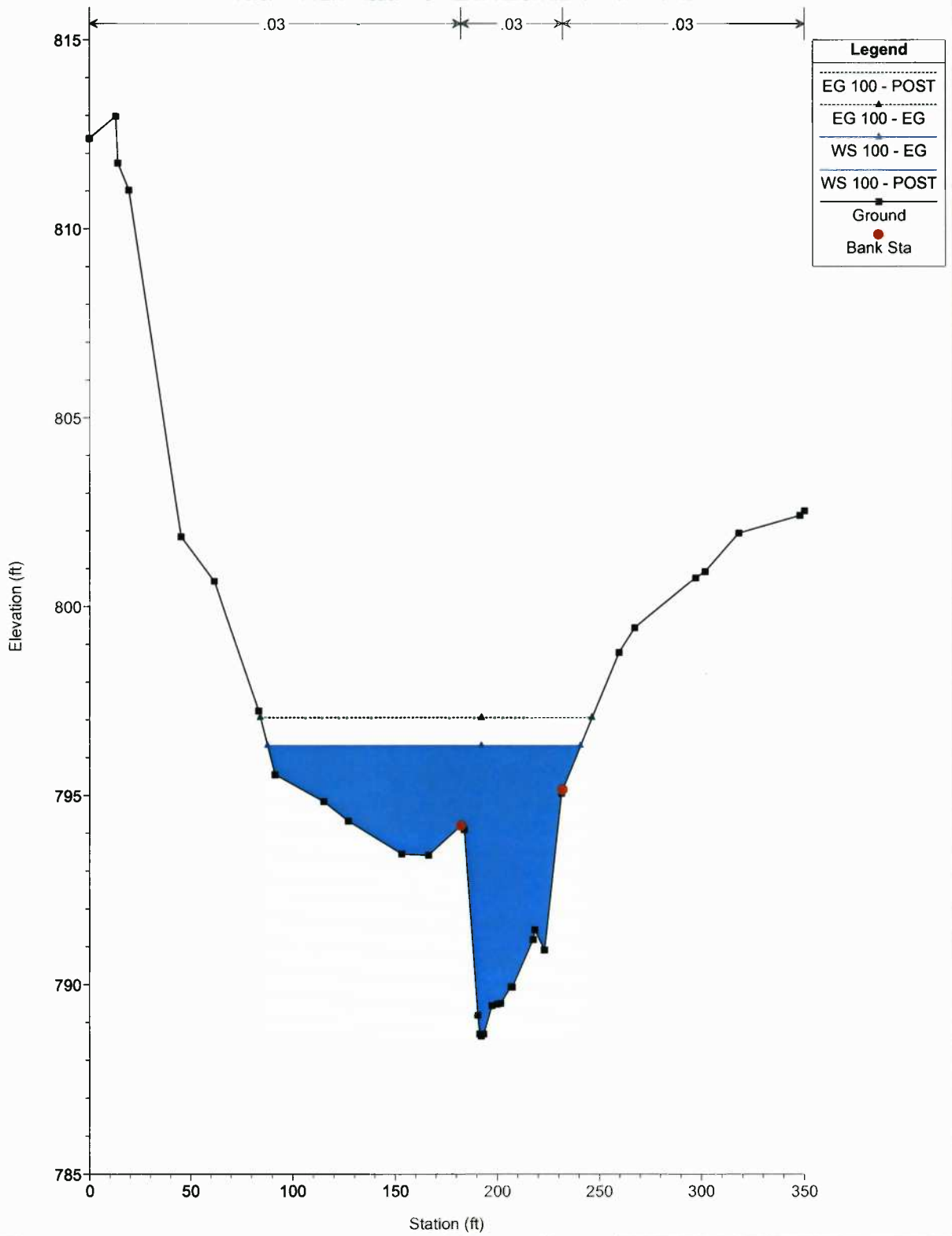
River = RIVER Reach = STREAM ALIGNMENT RS = 1100



H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: EXISTING CONDITION Flow: EXISTING

River = RIVER Reach = STREAM ALIGNMENT RS = 1050

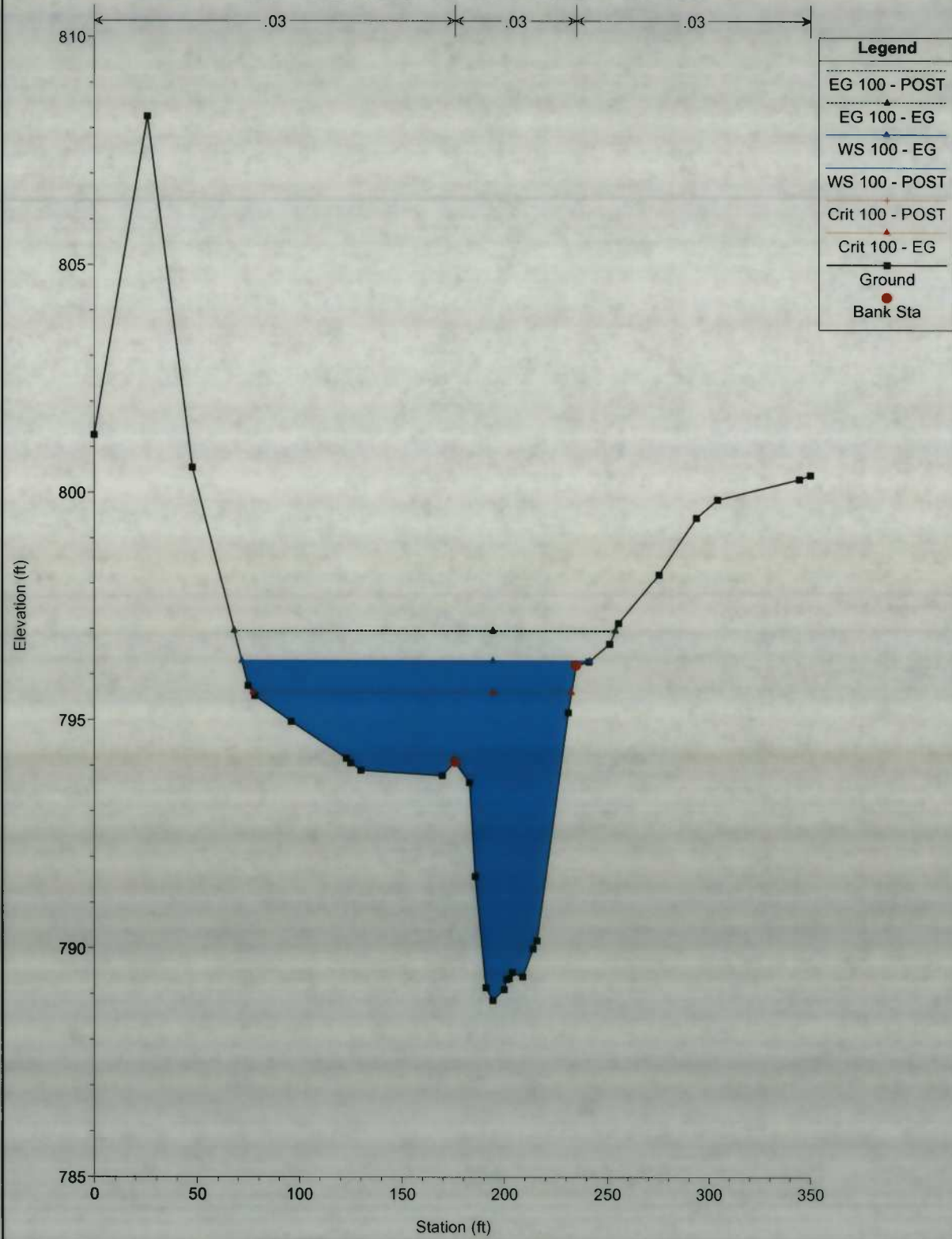




H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: EXISTING CONDITION Flow: EXISTING

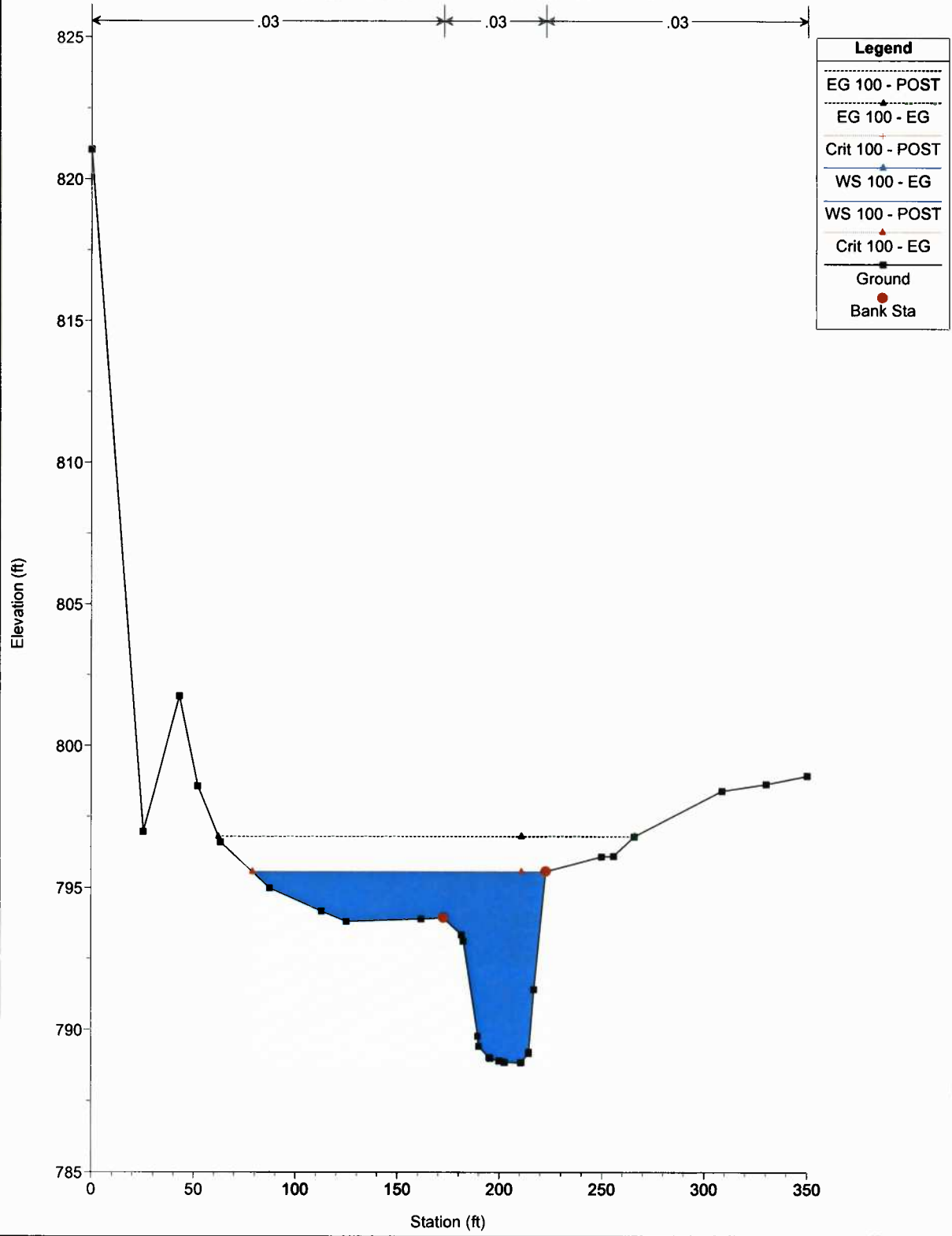
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: EXISTING CONDITION Flow: EXISTING

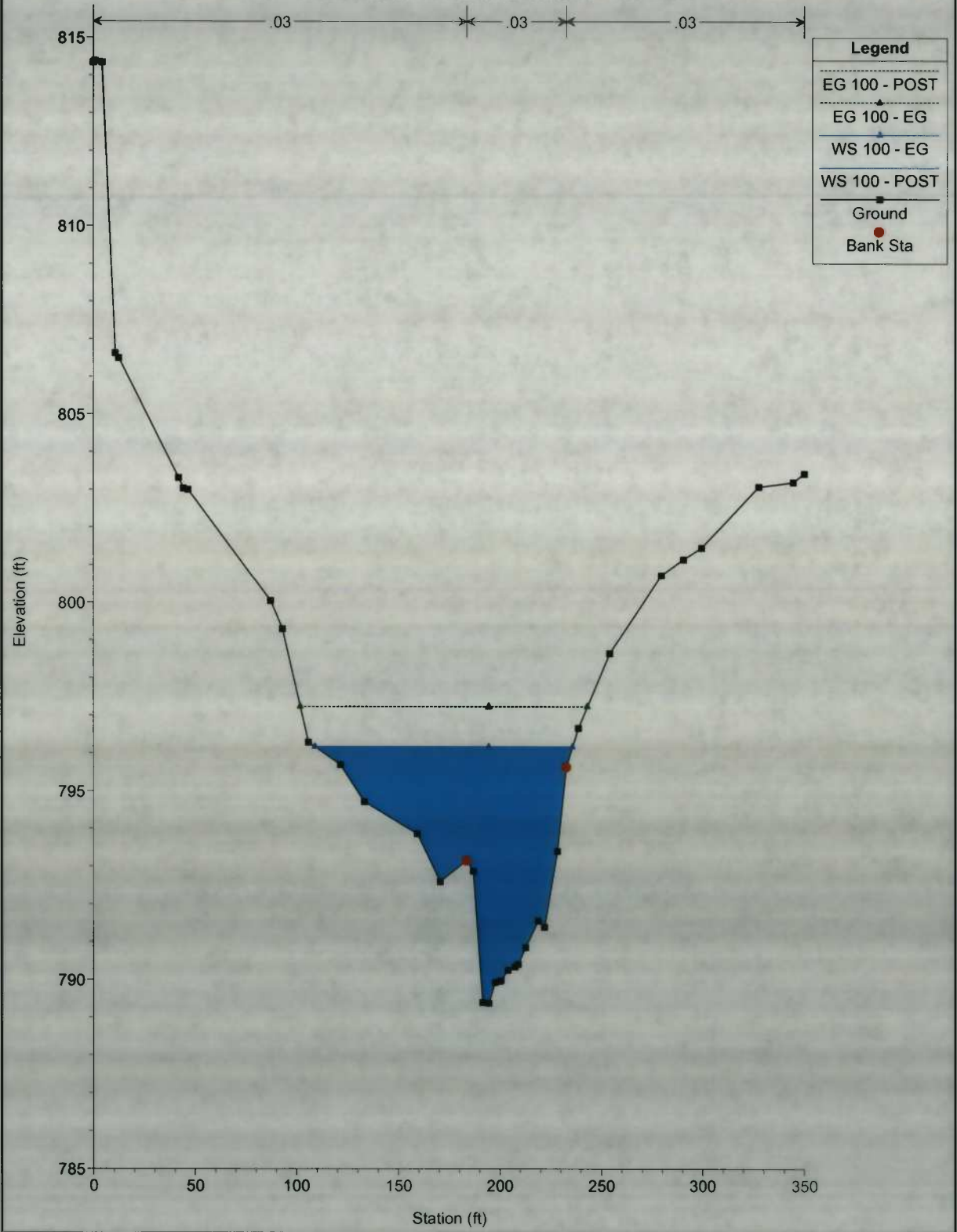
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

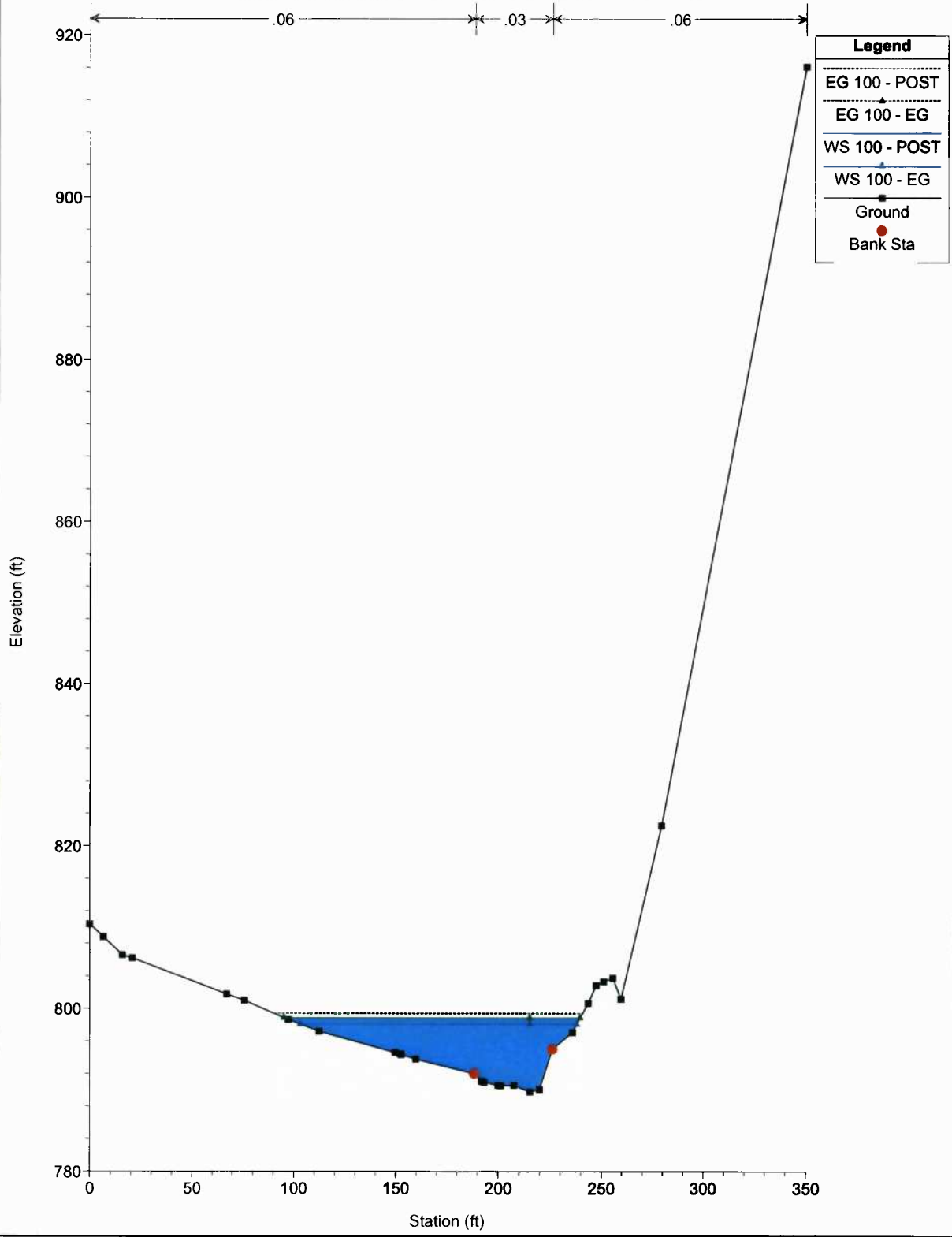
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

River = RIVER Reach = STREAM ALIGNMENT RS = 1275

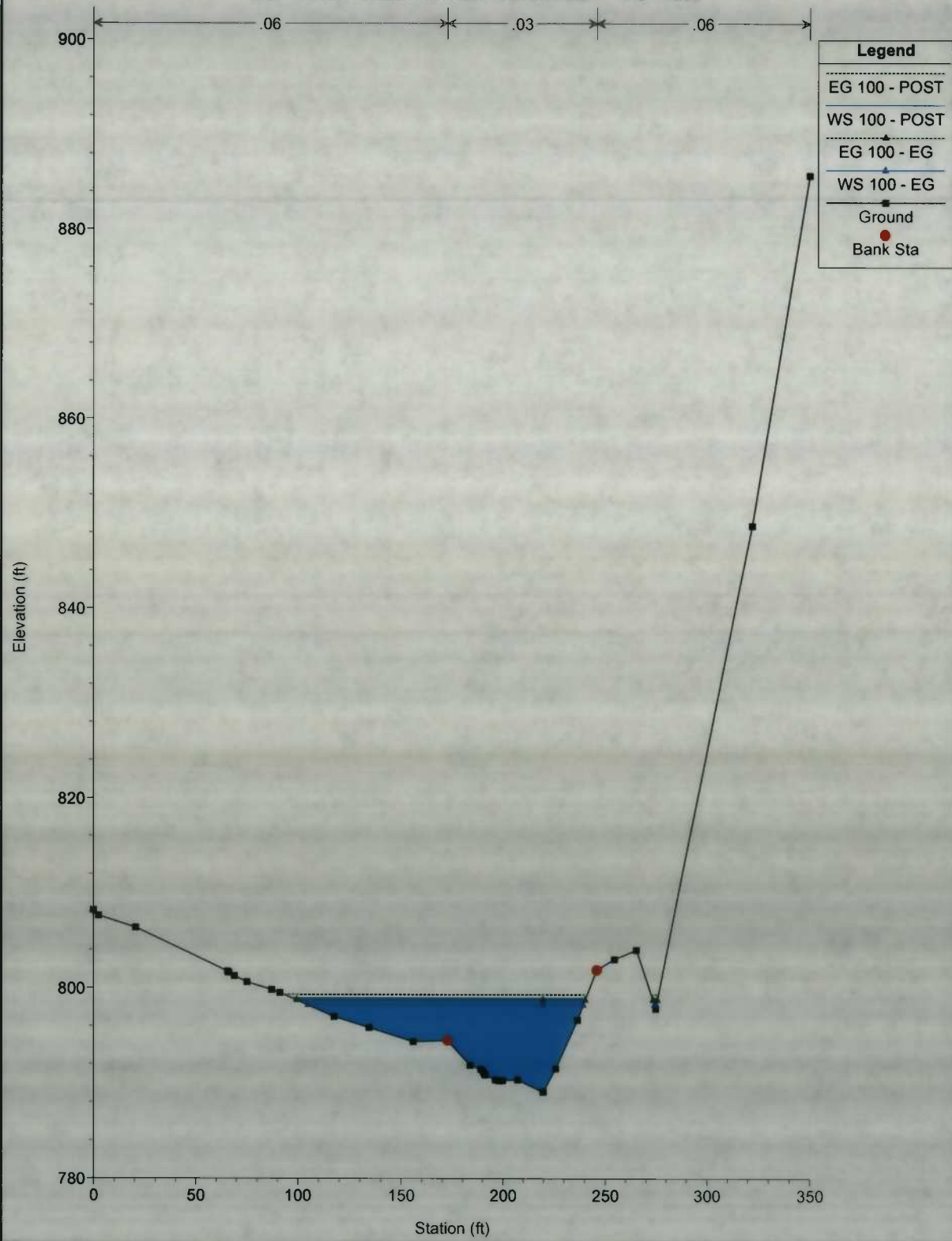




H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

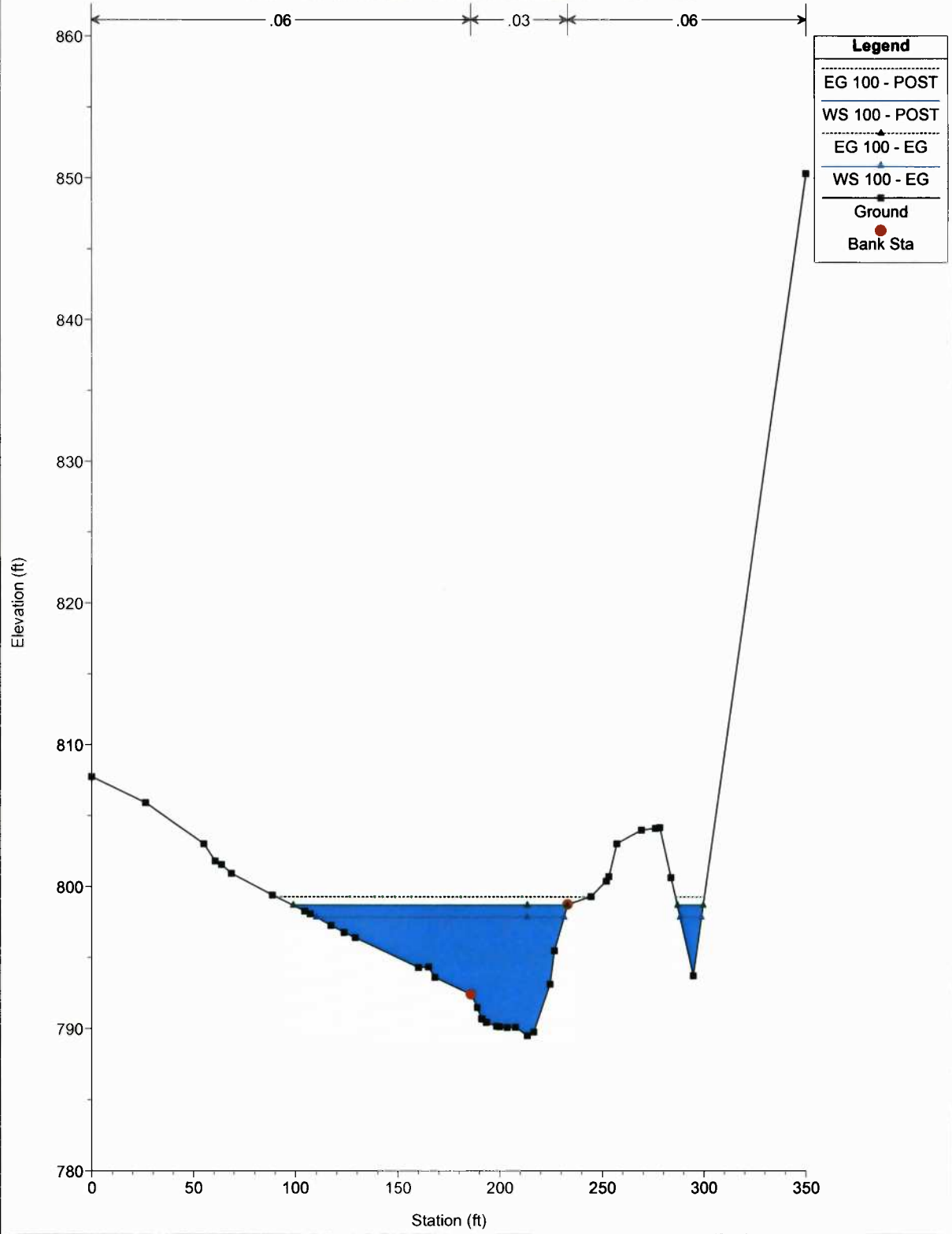
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

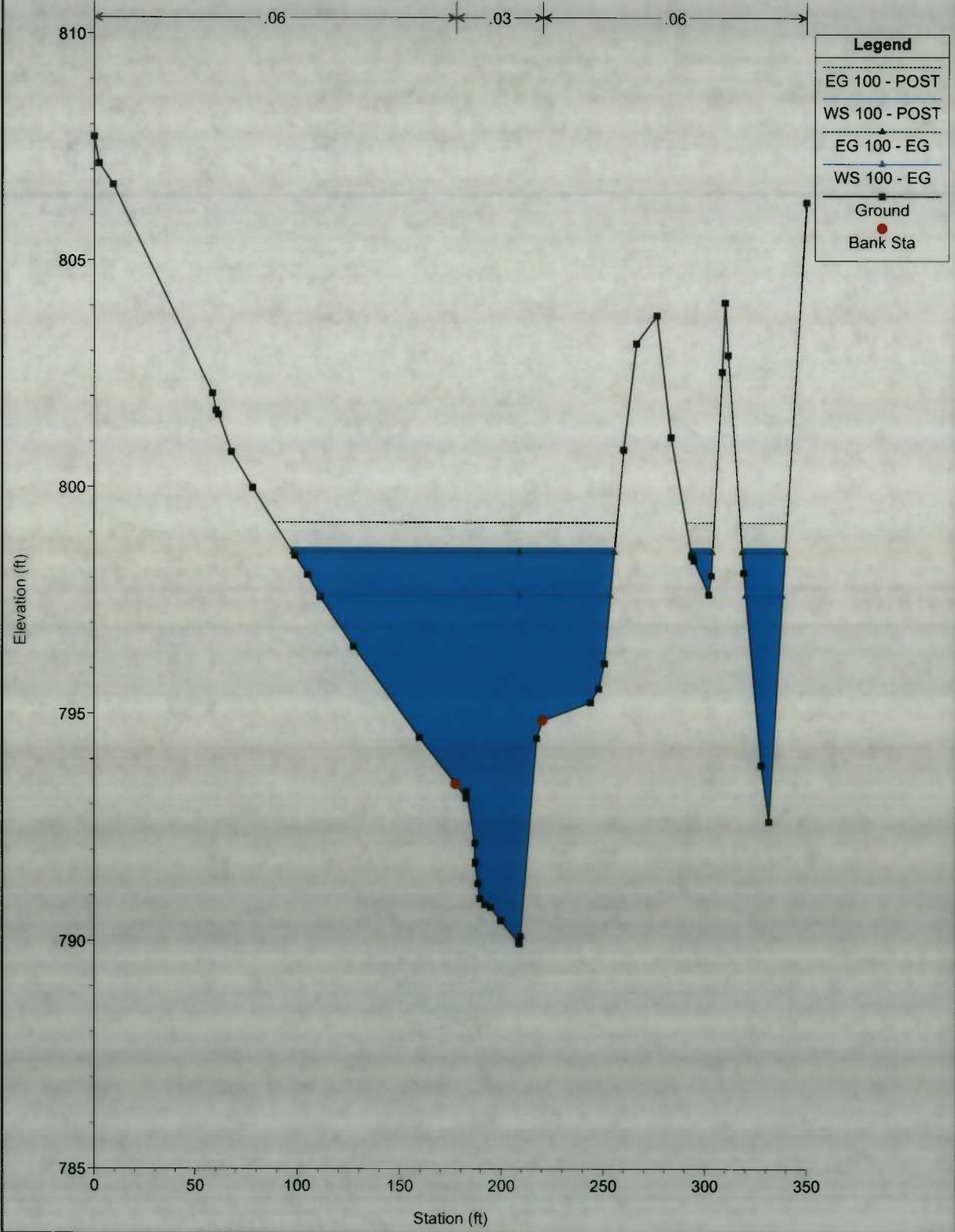
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

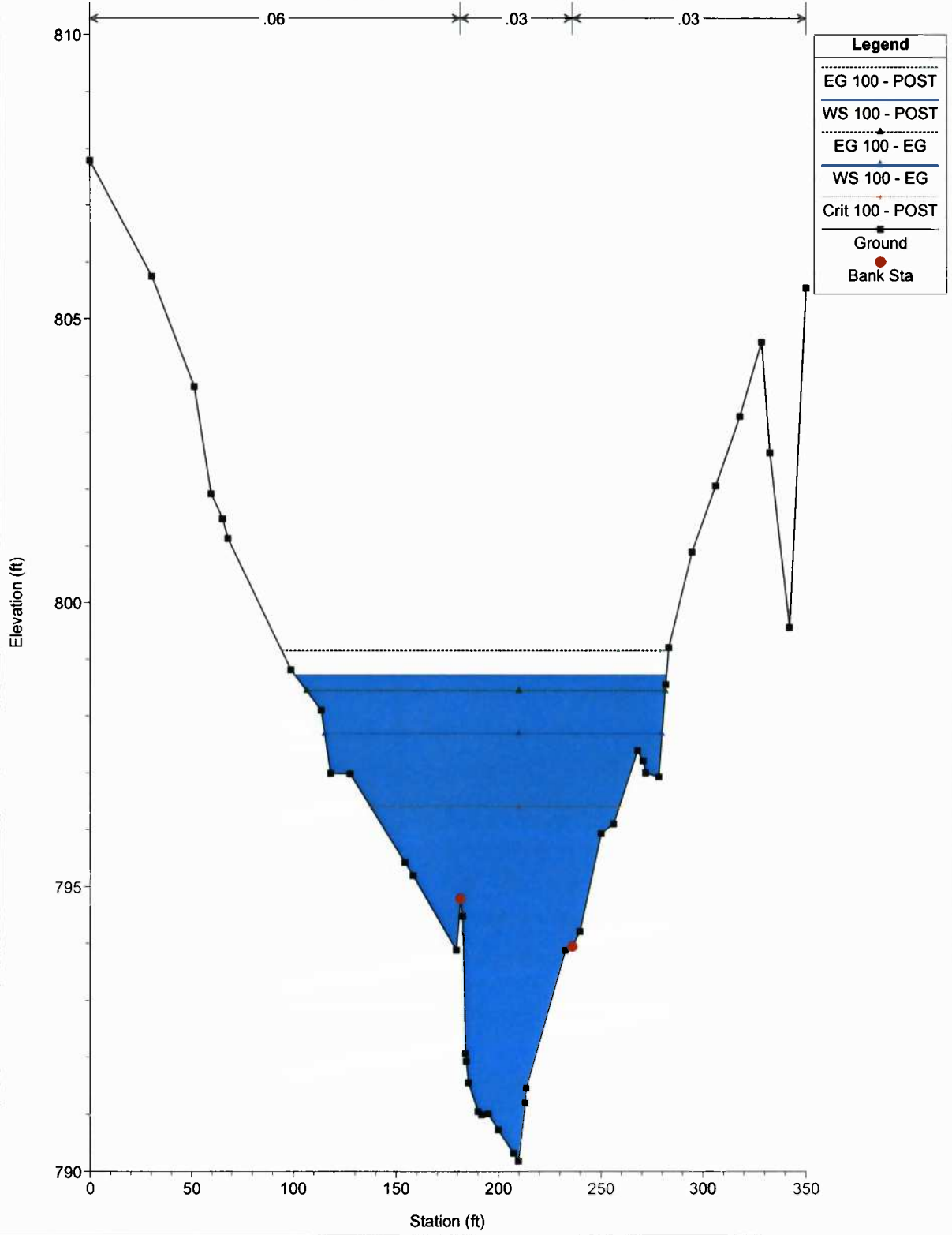
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

River = RIVER Reach = STREAM ALIGNMENT RS = 1175

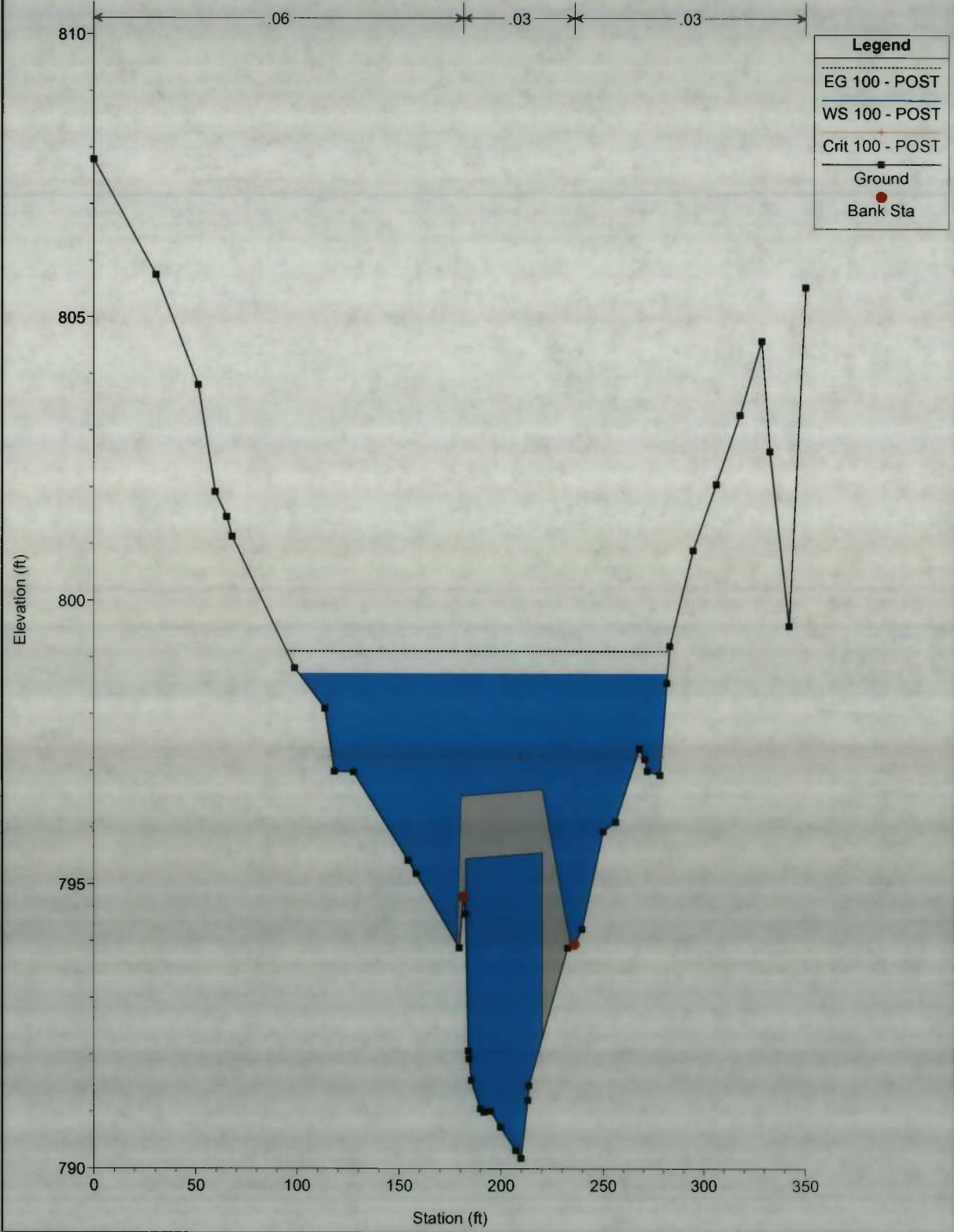




H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

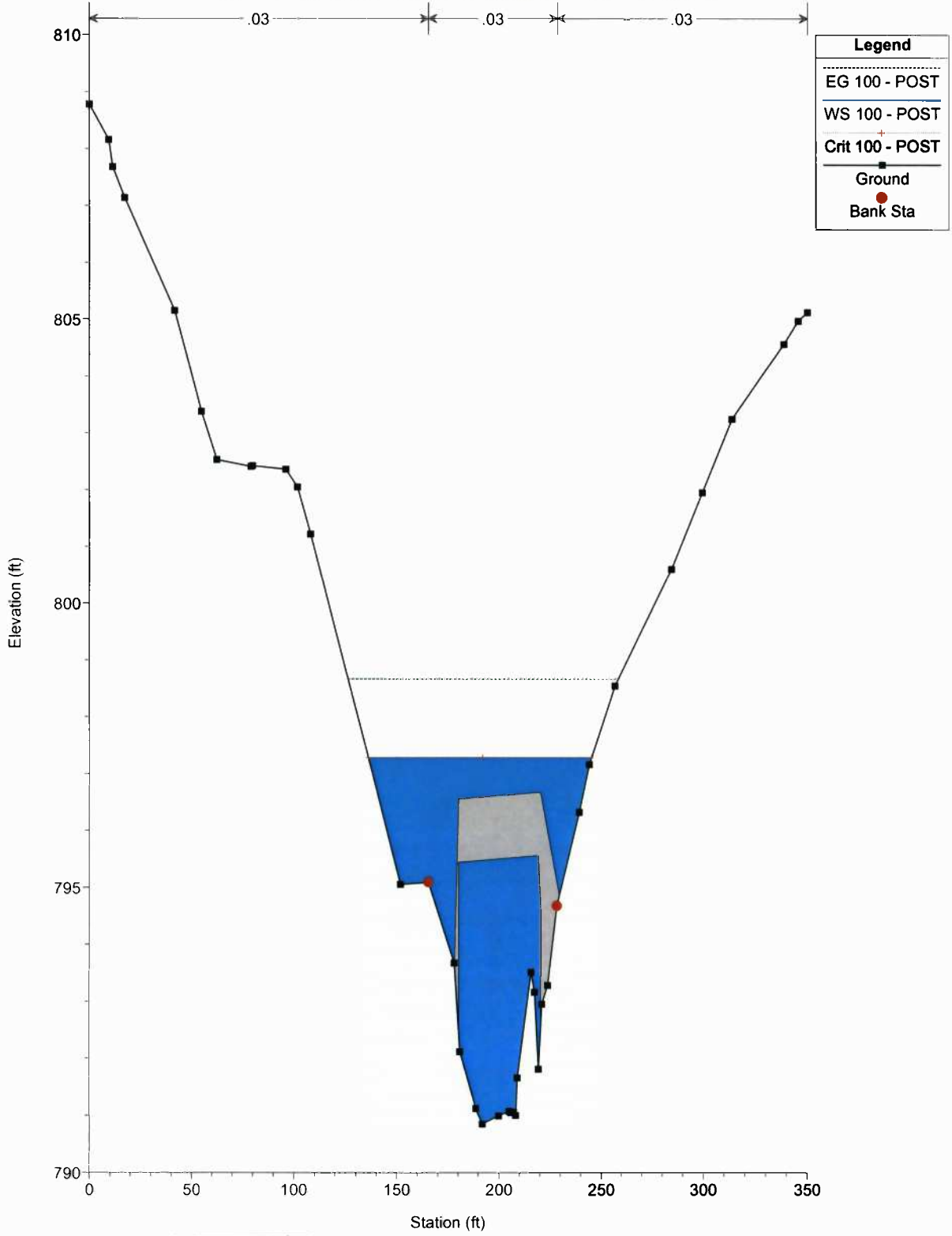
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

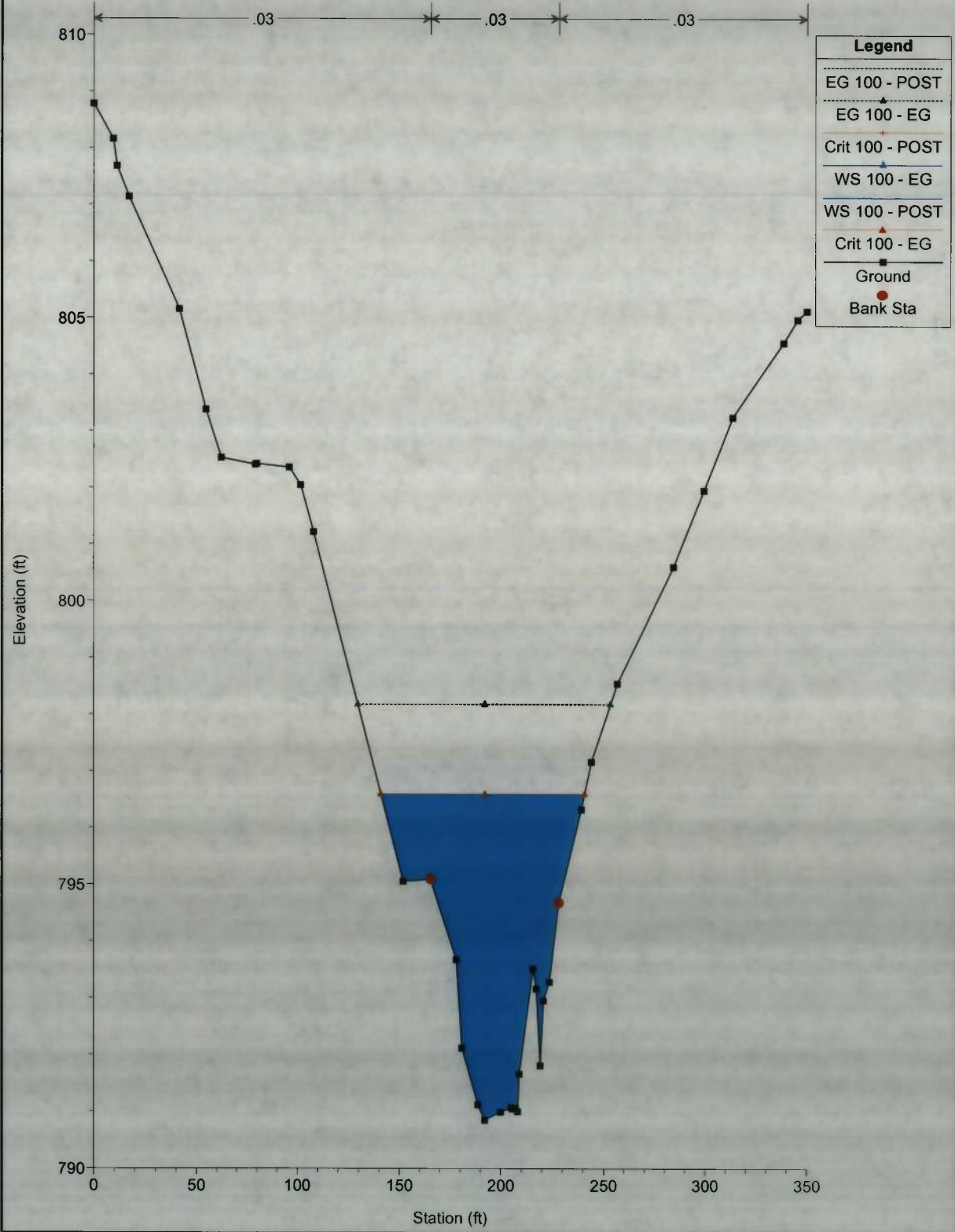
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

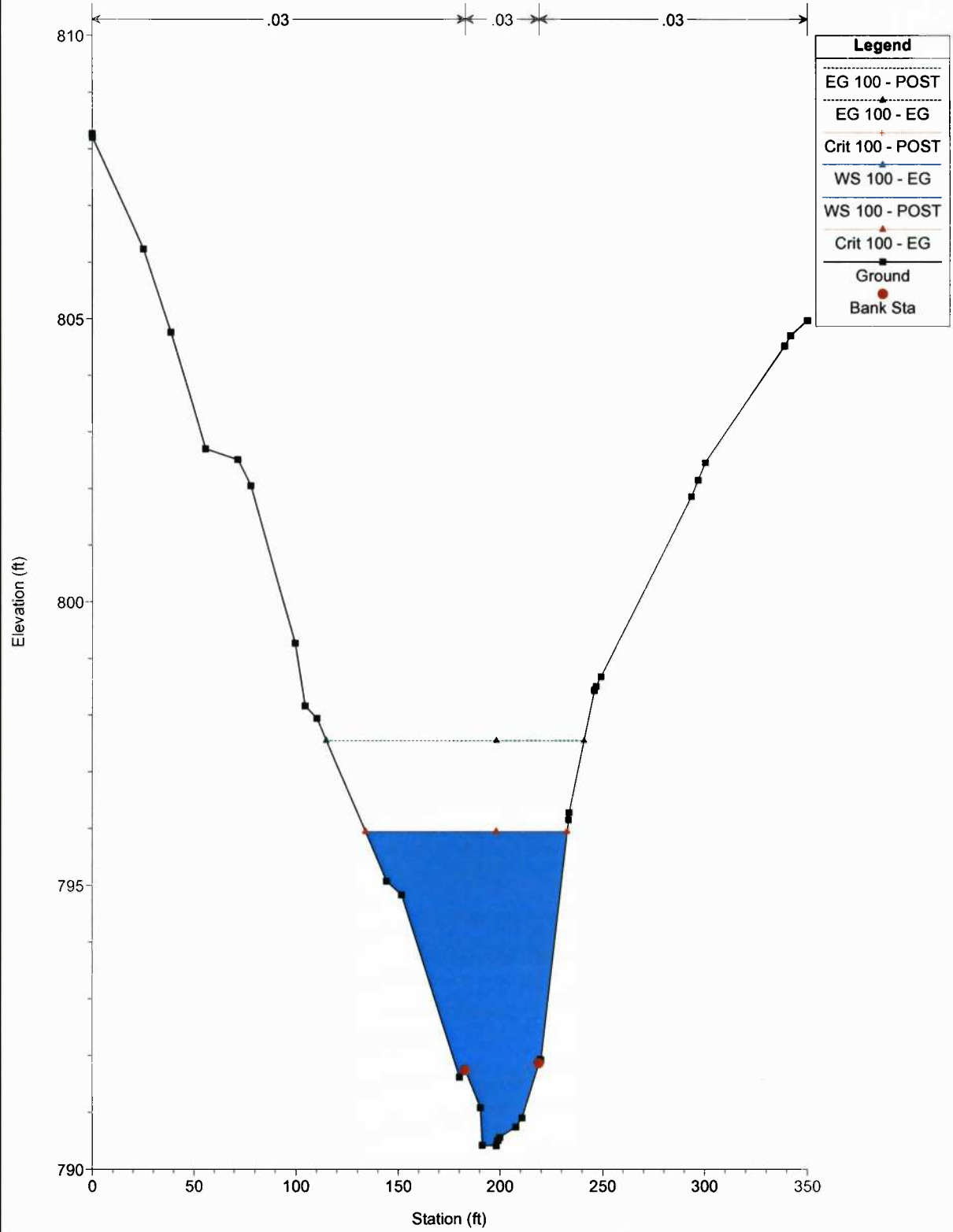
River = RIVER Reach = STREAM ALIGNMENT RS = 1125



H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

River = RIVER Reach = STREAM ALIGNMENT RS = 1100

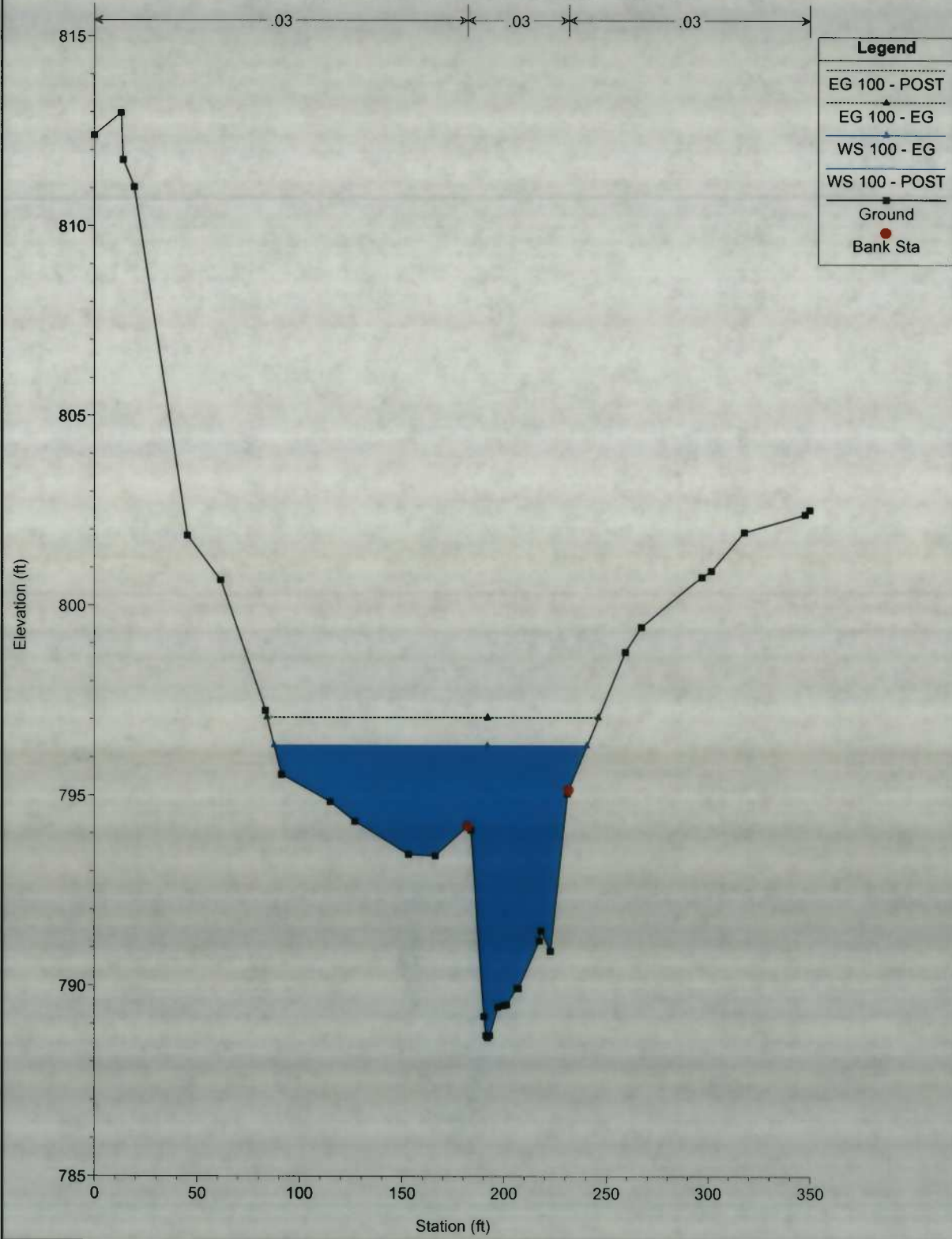




H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

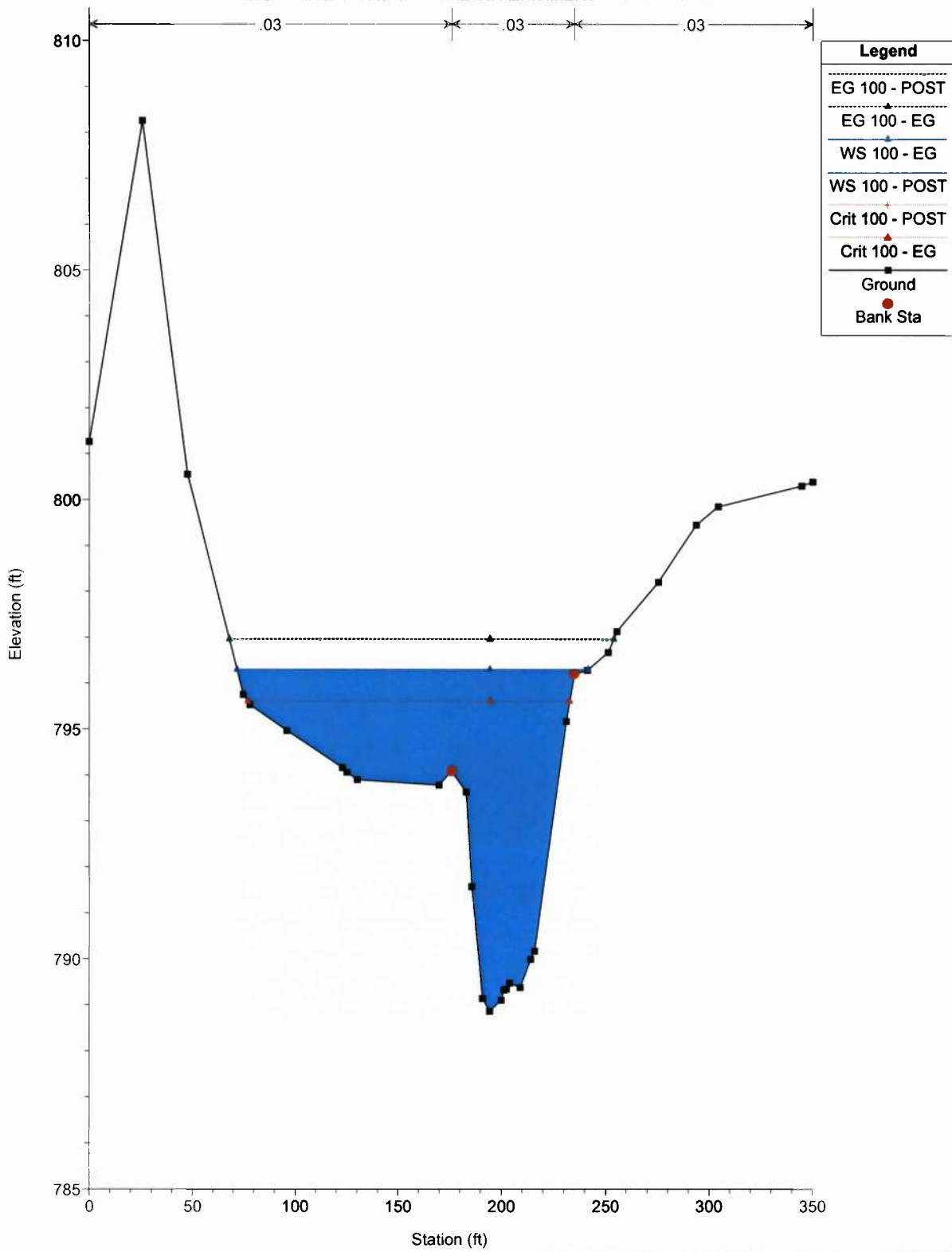
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

Geom: PROPOSED CONDITION Flow: EXISTING

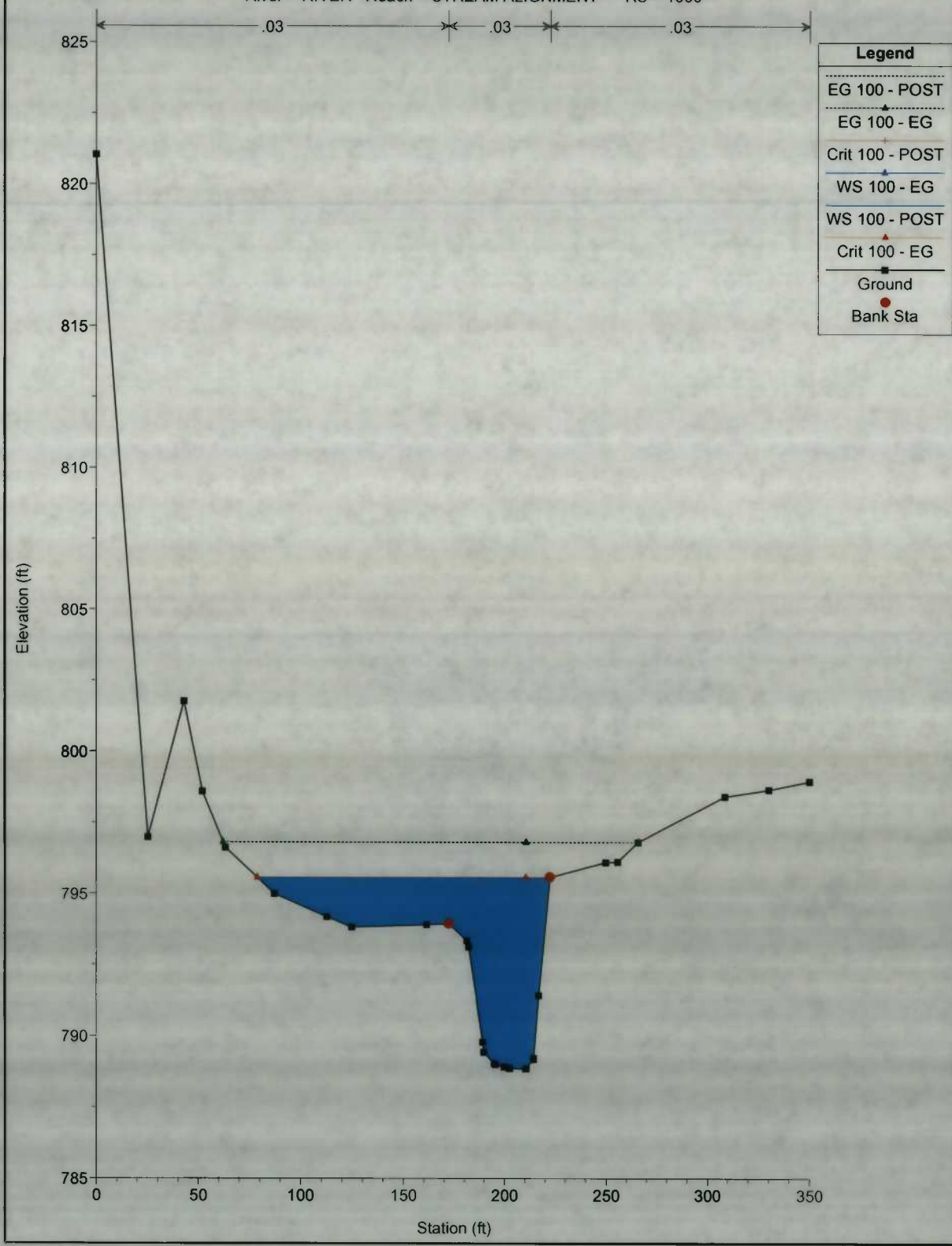
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H&H STUDY Plan: 1) POST 11/15/2013 2) EG 11/15/2013

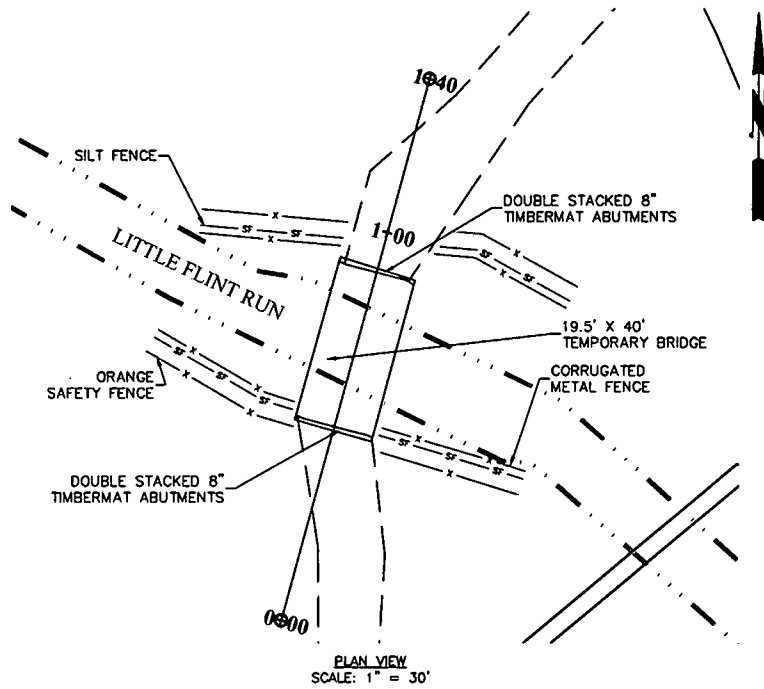
Geom: PROPOSED CONDITION Flow: EXISTING

River = RIVER Reach = STREAM ALIGNMENT RS = 1000

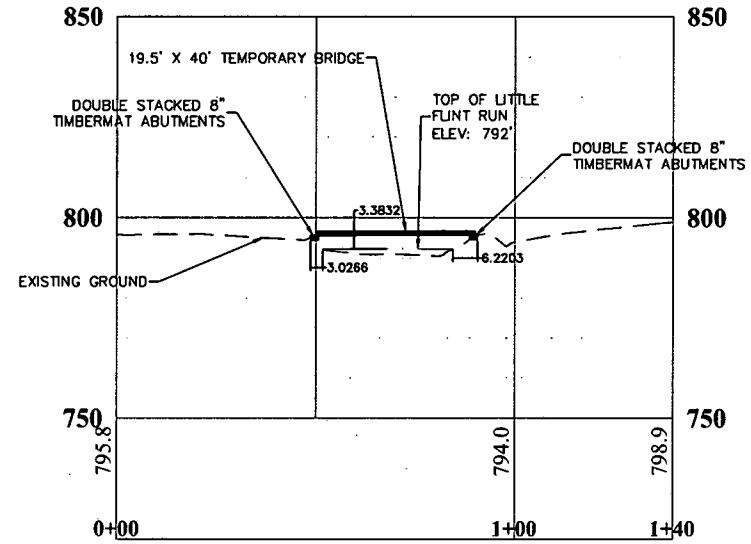


**APPENDIX 3**

**SITE PLANS**



PLAN VIEW  
SCALE: 1" = 30'



PROFILE VIEW  
SCALE: 1" = 30'

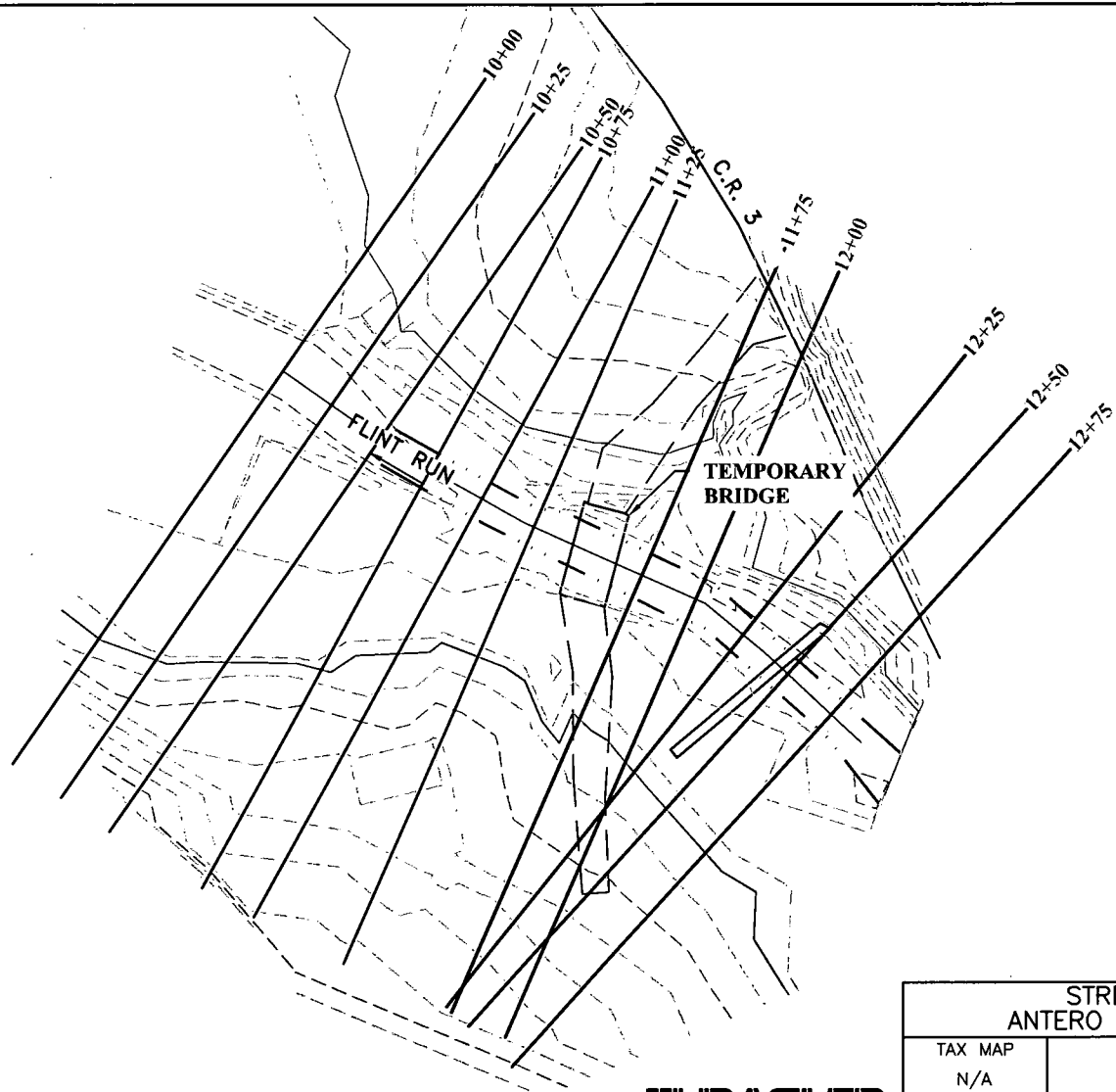
LEGEND / ABBREVIATIONS

- PERMANENT RIGHT-OF-WAY
- - - CONSTRUCTION RIGHT-OF-WAY
- GAS
- x - CORRUGATED METAL FENCE
- sf - SILT FENCE
- x - ORANGE SAFETY FENCE
- - - EDGE OF STREAM
- - - EXISTING GROUND
- - - PIPELINE PROFILE

**THRASHER**

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600 WHITE OAKS BOULEVARD  
P.O. BOX 940  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

PLAT OF EXHIBIT FOR ANTERO RESOURCES CORPORATION	
TAX MAP N/A	SHOWING TEMPORARY BRIDGE FOR THE CANTON PEARL JEAN TO FOREST WATERLINE SITUATE
PARCEL No. N/A	GRANT DISTRICT DODDRIDGE COUNTY WEST VIRGINIA
JOB No. 010-0715	SCALE: AS SHOWN OCTOBER 2013



**LEGEND/ABBREVIATIONS**

- - - - - = 100YR FLOOD ELEV.
- - - - - = EDGE OF STREAM
- - - - - = EXISTING GROUND

PLAN VIEW  
SCALE: 1" = 50'

**THRASHER**

THE THRASHER GROUP, INC.  
600 WHITE OAKS BOULEVARD  
P.O. BOX 940  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

<b>STREAM CROSS SECTIONS ANTERO RESOURCES CORPORATION</b>	
TAX MAP N/A	SHOWING <b>TEMPORARY BRIDGE</b> FOR THE <b>CANTON PEAR JEAN TO                  FOREST WATERLINE</b> SITUATE
PARCEL No. N/A	
JOB. No. 015-0715	
GRANT DISTRICT	DODDRIDGE COUNTY
<b>WEST VIRGINIA</b>	
SCALE: AS SHOWN	NOVEMBER 2013



Antero Resources  
1625 17th Street  
Denver, Colorado 80202  
Office 303.357.7310  
Fax 303.357.7315

December 4, 2013

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

Mr. Wellings:

Please find enclosed a revised check to correspond with the Doddridge County Floodplain permit submitted for the Canton Temporary Bridge. We were contacted by Katy mid-November and informed of the revised amount of \$500.00. The self-addressed and stamped envelope can be used to send back the previously submitted \$1,000.00 check.

If you have any questions please feel free to contact me at (303) 357-6820.

Sincerely,

Shauna DeMattee  
Permit Representative  
Antero Resources Corporation

Enclosures

2013 DEC -5 PM 4:38  
BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

FILED

#13-095

# THRASHER

November 15, 2013

Mr. Dan Wellings  
Doddrige County Commission  
118 East Court Street  
West Union, WV 26456

**RE: *Doddrige County Location Improvement Permit  
Antero Resources Corporation  
Pearl Jean to Forest Water Line Temporary Bridge  
Doddrige County, West Virginia  
Thrasher Group Project #101-010-0715***

**FILED**  
2013 NOV 18 PM 4:05  
BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

Mr. Wellings:

The Thrasher Group, Inc. (Thrasher) has been retained by Antero Resources Corporation (Antero) to provide professional environmental and engineering services. These services include the preparation of construction documents and environmental permitting. The proposed Pearl Jean to Forest Temporary Bridge Project is located in Doddrige County, West Virginia; at approximate coordinates 39.342027°N and 80.694001°W. The project will involve the installation of a 40 by 19.5 foot temporary bridge to in an existing access road to cross Flint Run, in order to repair a slip in the existing pipeline right-of-way. Note that due to the severity of the slip, the bridge has been installed in order to stabilize the slip and prevent impact to any aquatic resources downgrade.

Impact to the stream shall be avoided by placing the bridge on double-stacked timber mat stabilizers (abutments) approximately 3.38 feet above, and approximately 6.22 and 3.03 feet outside of the stream's Ordinary High Water Mark (OHWM). In addition, the stream will be bordered with three phases of fencing (corrugated metal, silt and orange safety fencing). The installation and location of the temporary bridge will not require in-stream activity.

The proposed temporary bridge is located within the 100 year floodplain. According to the hydrologic analysis study; 100 feet upstream of the crossing the proposed backwater elevation increased by 0.75'; under the one foot cumulative floodplain elevation increase threshold per the WVDOH Drainage Manual and FEMA. In addition, no adjacent structures are anticipated to be impacted by the temporary bridge.

Please see attached mapping, project exhibit and HEC-RAS floodplain study detailing the project. Also, included is a Doddrige County Floodplain permit application and permit fee.



If any further documentation is required for this project, or if any questions may arise please feel free to contact me at your convenience at (304) 624-4108 or [ddrennen@thrashereng.com](mailto:ddrennen@thrashereng.com).

Sincerely,

THE THRASHER GROUP, INC.



DON L. DRENNEN  
Environmental Scientist

Enclosures

STATE OF WEST VIRGINIA,  
COUNTY OF DODDRIDGE, TO WIT

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

*Floodplain Permit*  
*Application*  
*# 13-095*

was published in said paper for *1*

successive weeks beginning with the issue  
of *November 26<sup>th</sup>* 2013 and  
ending with the issue of

..... 2013 and

that said notice contains *189*

WORD SPACE at *115* cents a word

amounts to the sum of \$ *21.74*

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

\$ .....  
and each publication thereafter

\$ *21.74* ..... TOTAL

EDITOR

*Virginia Nicholson*

SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE *2* DAY

OF *December* 2013

NOTARY PUBLIC

*Laura J Adams*

LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 21st day of November,  
2013 ANTERO RESOURCES CORPORATION - PEARL  
JAM TO FOREST WATER LINE TEMPORARY  
BRIDGE #13-095 filed an application for a Floodplain  
Permit to develop land located at or about: SURFACE  
OWNERS: RONALD YERKEY, GRANT DISTRICT,  
DEED BOOK: 275/64, TAX MAP: 9/9  
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 December  
11, 2013.  
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  
11-26-2xb

