

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. 656

Date: October 3, 2013  
\*\*\*Customer copy\*\*\*

Received: #13-074 eqt wue i well line (potesta & associates) \$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

7011 0470 0000 8523 2556

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

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

**OFFICIAL USE**

Postage	\$ .46	Postmark Here
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>	

Sent To Mary L. Nesler 13-074  
 Street, Apt. No., or PO Box No. P.O. Box 154  
 City, State, ZIP+4 West Union, WV 26456  
 PS Form 3800, August 2006 See Reverse for Instructions

7011 0470 0000 8523 2556

U.S. Postal Service™  
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<b>Total Postage &amp; Fees</b>	<b>\$ 6.11</b>	

Sent To Eleanor Meyer 13-074  
 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

**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: 13-074

Mary L. Nesler  
 P.O. Box 154  
 West Union, WV 26456

2. Article Number  
 (Transfer from service label)

7011 0470 0000 8523 2556

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Mary L. Nesler*  
 Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

10-11-13

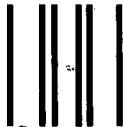
D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

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. G-10

**FILED**

**2013 OCT 15 PM 12:15**

**BETH A. ROGERS  
BOONDRIDGE COUNTY CLERK  
BOONDRIDGE COUNTY, WV**

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

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

05702115



**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: 13-074

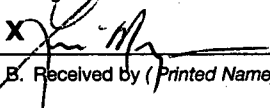
Eleanor Meyer  
 19 Heath Place  
 Garden City NY 11530

 2. Article Number  
 (Transfer from service label)

7011 0470 0000 8523 2563

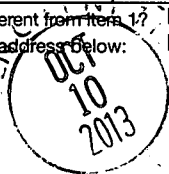
**COMPLETE THIS SECTION ON DELIVERY**

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

UNITED STATES POSTAL SERVICE



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

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

DODDRIDGE COUNTY, WV  
BETH A. ROGERS  
COUNTY CLERK

2013 OCT 15 PM 12:12

FILED



13 - 074  
sent to Paper 10/3/13

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 3<sup>rd</sup> day of October, 2013  
**EQT PRODUCTION COMPANY – WUE 8 WELL LINE** filed an  
application for a Floodplain Permit to develop land located at or  
about: **SURFACE OWNERS: ELEANOR MEYER, 349.75 AC ARNOLDS  
CREEK, W/B 10 PG 526, MAP 14 PARCEL 6**

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

Any interested persons who desire to comment shall present  
the same in writing by **October 23, 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



**Engineers and Environmental Consultants**

7012 MacCorkie Avenue, SE, Charleston, WV 25304 - (304) 342-1400 • FAX (304) 343-9031; [www.potesta.com](http://www.potesta.com)

December 11, 2014

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

RE: Request for Termination of Existing Floodplain Permit Application  
EQT Production Company  
EQT WEU 8 Well Site  
Doddridge County, West Virginia  
POTESTA Project No. 0101-11-0147-803

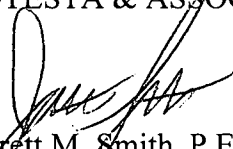
Dear Mr. Wriston:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this letter requesting termination of existing floodplain permit number 13-074 for the WEU 8 Well Line project. The proposed project has been completed including those portions located within the floodplain. Areas of disturbance have been stabilized and revegetated. No aboveground structures were constructed as part of this project.

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

Sincerely,

POTESTA & ASSOCIATES, INC.



Jarrett M. Smith, P.E.  
Senior Engineer

JMS/clr

Enclosures

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

**POTESTA & ASSOCIATES, INC.**

Charleston, West Virginia • Morgantown, West Virginia • Winchester, Virginia • Cambridge, Ohio



## Engineers and Environmental Consultants

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

September 13, 2013

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

RE: Floodplain Permit Application  
EQT Production Company  
EQT WUE 8 Well Line  
Doddridge County, West Virginia  
POTESTA Project No. 0101-11-0147-803

Dear Mr. Wellings:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this cover letter with the associated Floodplain Development Permit Application for the proposed WEU 8 Well Line Project. The proposed project will consist of installing approximately 4,539 linear feet of well line from the WUE 8 well pad to the MOSA S002 pipe line. Based on information presented on the site FIRM, a portion of the project is located within FEMA Flood Zone A from approximate stations 11+00 to 14+50. 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 well 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 WEU 8 Well 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.

Included with this permit application is the Erosion and Sediment Control Plans for this project that show the well line alignment, proposed limits of disturbance, proposed erosion and sediment controls, and the approximate location of the floodplain.

**POTESTA & ASSOCIATES, INC.**

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

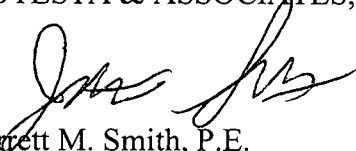


Mr. Dan Wellings  
September 13, 2013  
Page 2

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.

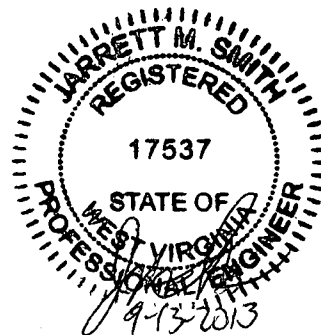


Jarrett M. Smith, P.E.  
Staff Engineer II

JMS/clr

Enclosures

c: Ms. Megan Landfried – EQT



PERMIT NO. 13-074

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

PURPOSE FOR PERMIT: WELL LINE - WUE 8  
WELL LINE

ISSUED TO EQT Production Co.

115 Professional Place

ADDRESS: Bridgeport WV 26330

PROJECT ADDRESS: Arnold's Creek

Tax Map 14 Parcel 6

ISSUED BY: Dan Wellings

DATE: 11/04/2013

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.

# DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

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

APPLICANT'S SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

*Megan E. [Signature]*  
8/21/13

## 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: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
TELEPHONE NUMBER: \_\_\_\_\_

2013 SEP 30 PM 4:00

111111

BUILDER'S NAME: EPT Production Company  
ADDRESS: 115 Professional Place, Bridgeport, Wn 26330  
TELEPHONE NUMBER: 304-848-0061

ENGINEER'S NAME: Potesta & Associates, Inc  
ADDRESS: 7012 MacCorille Ave, SE Charleston, Wn 25304  
TELEPHONE NUMBER: 304-342-1400

**PROJECT LOCATION:**

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: Virginia Maxwell by Will dated 8/25/1965

LAND BOOK DESCRIPTION: Arnolds Creek 349.75 ac (Surface)

DEED BOOK REFERENCE: Will Book 10 Page 526

TAX MAP REFERENCE: Map 14 Parcel 6

EXISTING BUILDINGS/USES OF PROPERTY: NONE

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY NONE

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY NONE

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

39. 269685°N, -80. 910165W - Start  
39. 274511°N, -80. 800962W - Terminus

**DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)**  
**A. STRUCTURAL DEVELOPMENT**

**ACTIVITY**

**STRUCTURAL TYPE**

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

**B. OTHER DEVELOPMENT ACTIVITIES:**

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

**C. STANDARD SITE PLAN OR SKETCH**

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

**ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT IRRESPECTIVE OF WHETHER ALL OR ANY PART OF THE SUBJECT PROPOSED CONSTRUCTION PROJECT IS WITHIN THE FLOODPLAIN \$ 30,000**

**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: Mary L. Nester  
 ADDRESS: PO Box 154  
West Union, WV 26456  
(Upstream)  
 NAME: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_

NAME: Eleanor Meyer  
 ADDRESS: 19 Heath Place  
Garden City, NY 11530  
(downstream)  
 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: Mary L. Nester  
 ADDRESS: PO Box 154  
West Union, WV 26456  
 NAME: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_

NAME: Meyer - no residents  
 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 E. Landfried

SIGNATURE: Megan E. Landfried DATE: 8/21/13

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: 120  
 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 NGVD (MSL)

Unavailable

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

See section 4 for additional instructions.

SIGNED

Dan Wellings

DATE

11/04/2013

**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: 12/04/13 BY: Dan Welby  
DEFICIENCIES? Y/N

COMMENTS still under construction  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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.**

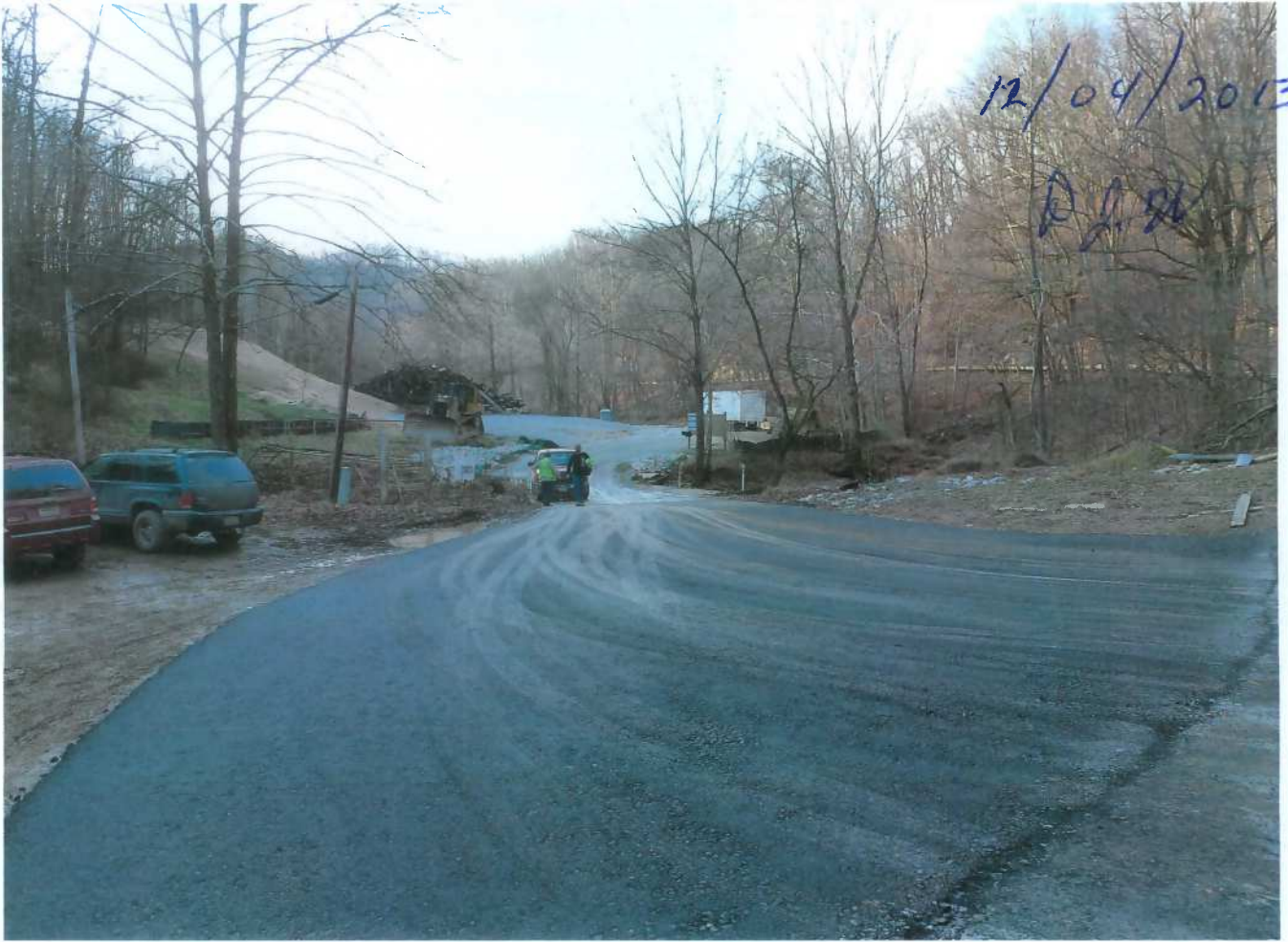
**SIGNED** \_\_\_\_\_ **DATE** \_\_\_\_\_

EQT

13-074

12/04/2013

D.A. 96



Arnold's Creek before Punkin Center

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:

*Flood Plain Permit Application*  
*13-074*

was published in said paper for ..... 1 .....  
successive weeks beginning with the issue  
of ..... *October 8* ..... 2013 and  
ending with the issue of

..... *October 8* ..... 2013 and  
that said notice contains *168*  
WORD SPACE at ..... *115* ..... cents a word  
amounts to the sum of \$ *19.32*

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

\$ ..... *0* .....  
and each publication thereafter  
\$ ..... *19.32* ..... TOTAL

EDITOR

*Virginia Nicholson*

SWORN TO AND SUBSCRIBED

BEFORE ME THIS THE *9* DAY  
OF *October* 2013

NOTARY PUBLIC

*Laura J Adams*

OCTOBER 8, 2013

11

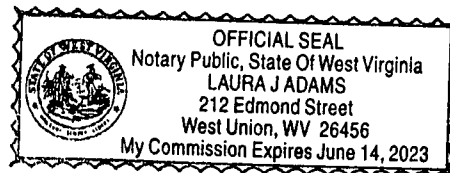
**Legal Advertisement**

Legal Advertisement  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 3rd day of October, 2013  
EQ PRODUCTION COMPANY, WUE & WELL LINE  
(13-074) filed an application for a Floodplain Permit to  
develop land located at or about: SURFACE OWNERS:  
ELEANOR MYER 349.75 AC ARNOLDS CREEK, W/B  
10 PG 526, MAP 14, PARCEL 6.

The Application is on file with the Clerk of the County  
Court and may be inspected or copied during regular  
business hours. Any interested persons who desire to  
comment shall present the same in writing by October 23,  
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  
10-8-12b



# EQT PRODUCTION COMPANY

## WEU8 WELL LINE

### EROSION AND SEDIMENT CONTROL PLAN

#### DODDRIDGE COUNTY, WEST VIRGINIA

No.	Date	Revision

-COV-DETAILS  
 CAD File No.  
 MBS  
 Drawn  
 JMS  
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 Approved  
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 Scale:  
 AUGUST 2013  
 Date:  
 11-0147-803  
 Project No.

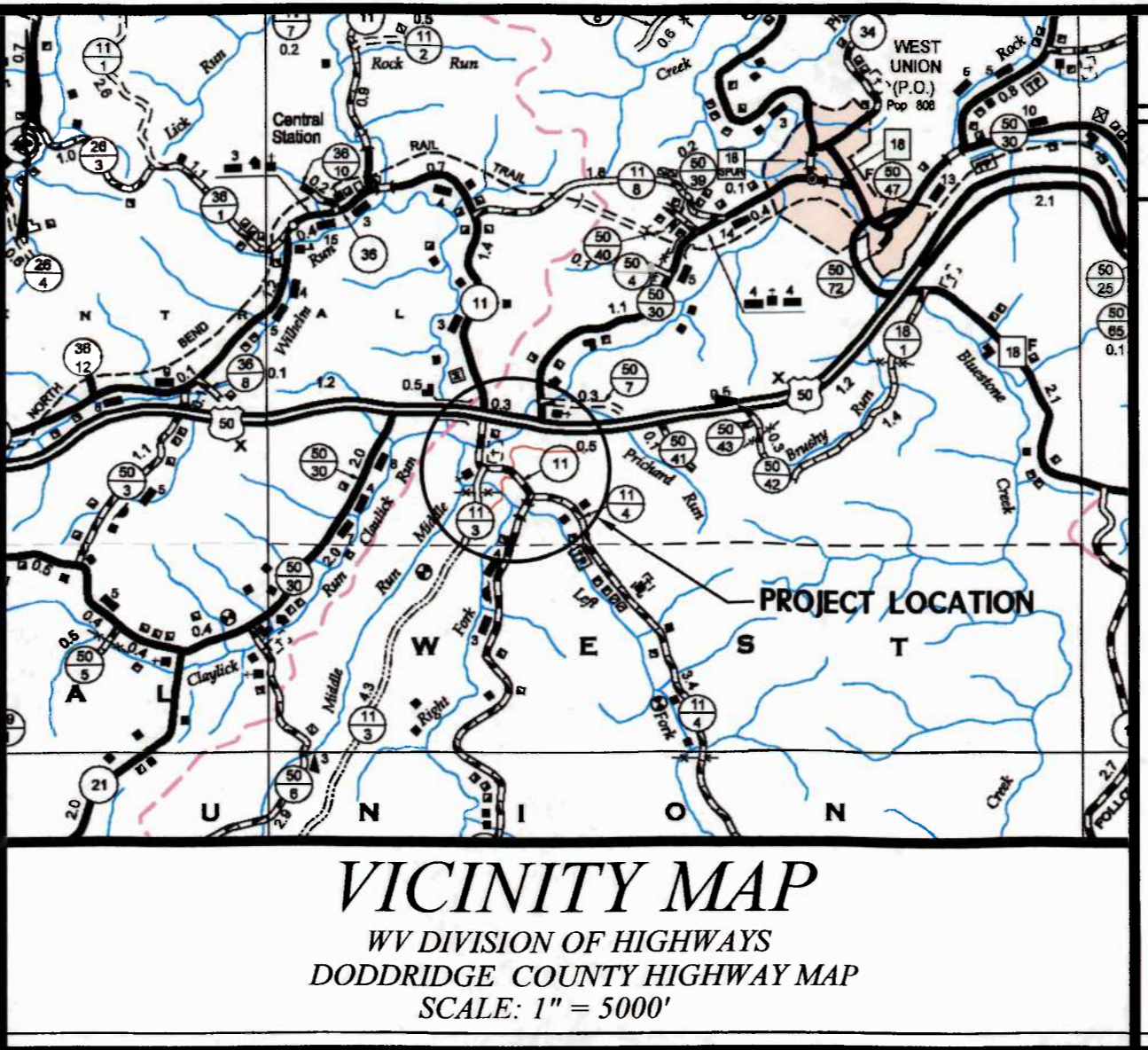
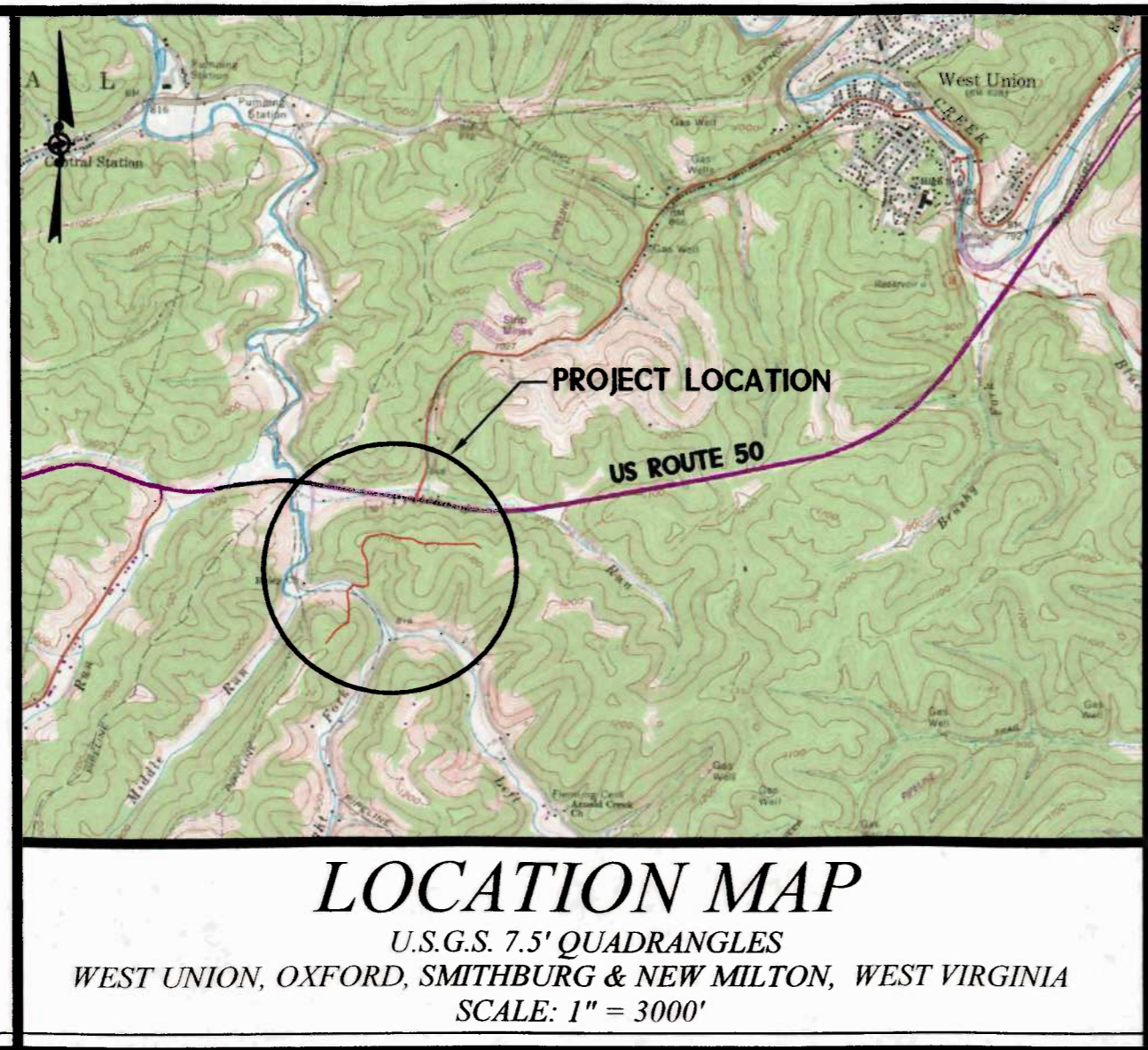
**POTESTA & ASSOCIATES, INC.**  
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 7012 MacCorkle Ave. SE, Charleston, WV 25304  
 TEL: (304) 342-1400 FAX: (304) 343-9031  
 E-Mail Address: potesta@potesta.com



EQT PRODUCTION COMPANY  
 115 PROFESSIONAL PLACE  
 BRIDGEPORT, WEST VIRGINIA

ISSUE DATE 08/30/2013

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 PLOT DATE: 8/30/2013 11:00am  
 PLOTTED BY: jms



<i>DRAWING INDEX</i>	
DRAWING NO.	TITLE
1	COVER SHEET AND INDEX
2	OVERALL LAYOUT
3	SITE PLAN
4	SITE PLAN
5	MISCELLANEOUS DETAILS
6	MISCELLANEOUS DETAILS

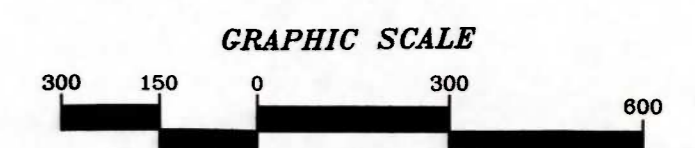
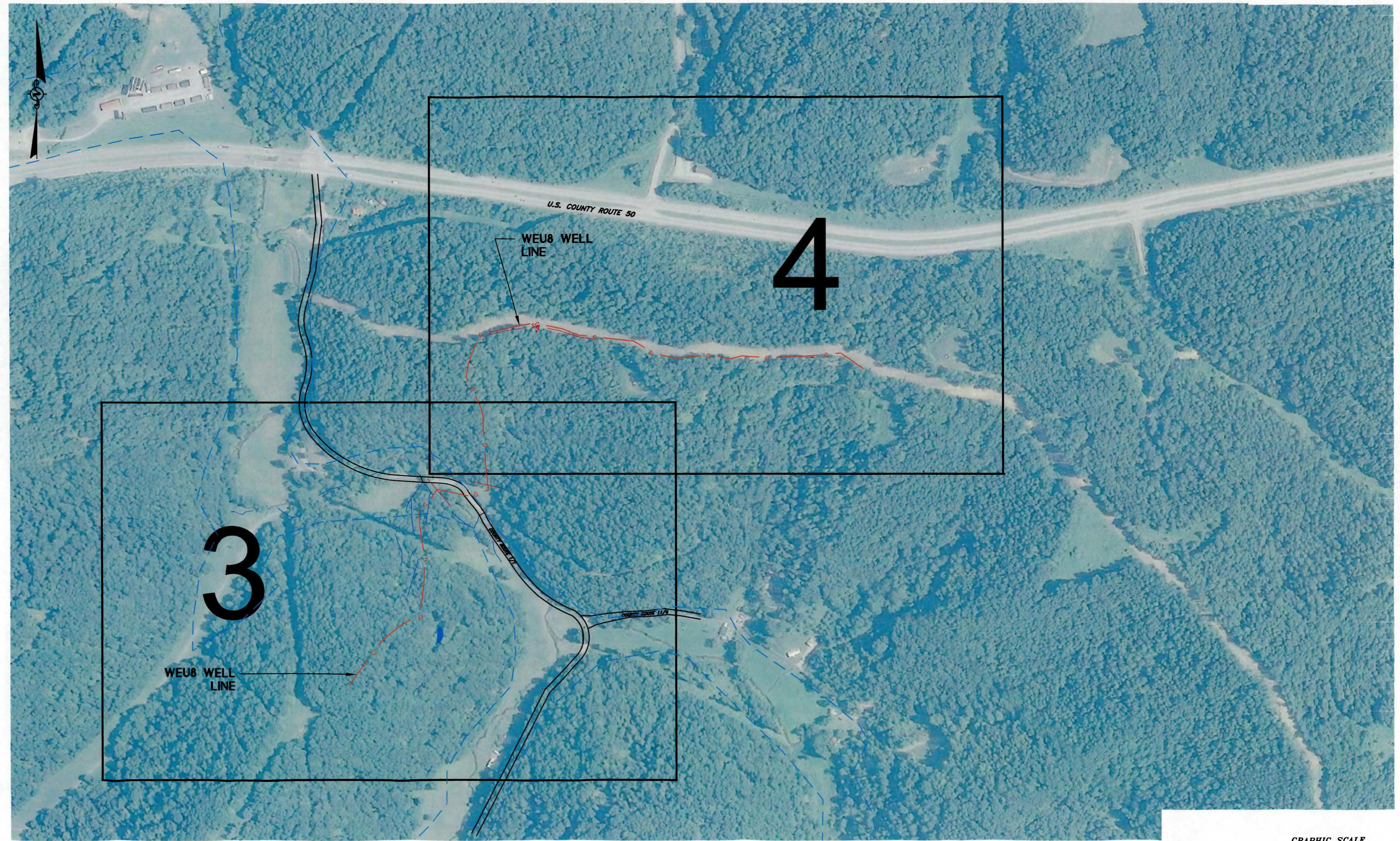
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Client  
 COVER SHEET  
 EQT WEU8 WELL LINE  
 EROSION & SEDIMENT CONTROL PLAN  
 DODDRIDGE COUNTY, WEST VIRGINIA  
 Title  
 1  
 Drawing No.

XREF: File: 11-0147-803-DESIGN.dwg  
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MAPPING REFERENCE:  
 BASE MAPING TAKEN FROM GOOGLE EARTH PRO AERIAL PHOTOGRAPHY  
 DEVELOPED IN 2011.

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Title  
 OVERALL LAYOUT  
 EQT WEU8 WELL LINE  
 EROSION & SEDIMENT CONTROL PLAN  
 DODDRIDGE COUNTY, WEST VIRGINIA

Drawing No.  
 2



No.	Date	Revision

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SYMBOL	DESCRIPTION
	STREAMS
	PROPOSED PIPELINE
	PROPOSED COMPOSITE FILTER SOCK
	PROPOSED SILT FENCE
	PROPOSED WATERBAR
	PROPOSED PIPELINE TRENCH BREAKER
	PROPOSED STONE CONSTRUCTION ENTRANCE
	APPROXIMATE LOCATION OF EXISTING CULVERT
	PERMANENT RIGHT-OF-WAY
	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY
	FLOODPLAIN LIMIT

**NOTES:**

- BASE MAPPING TAKEN FROM GOOGLE EARTH, FROM AERIAL PHOTOGRAPHY DEVELOPED IN JULY 2011. 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 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. 5.
- 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. 6. 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
- EXISTING LOCATION OF CULVERTS SHOWN ON DRAWINGS WERE OBTAINED BY POTESTA DURING THE STREAM AND WETLAND DELINEATION STUDY, AND WERE LOCATED USING A GPS UNIT.
- 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. 5.
- 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 WEU8 WELL LINE 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.



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Client  
EQT PRODUCTION COMPANY  
115 PROFESSIONAL PLACE  
BRIDGEPORT, WEST VIRGINIA

Title  
SITE PLAN  
EQT WEU8 WELL LINE  
EROSION & SEDIMENT CONTROL PLAN  
DODDRIDGE COUNTY, WEST VIRGINIA

Drawing No.  
3

XREF Files: 01-AREA1.DWG, 02-AREA2.DWG, 03-AREA3.DWG, 04-AREA4.DWG, 05-AREA5.DWG, 06-AREA6.DWG, 07-AREA7.DWG, 08-AREA8.DWG, 09-AREA9.DWG, 10-AREA10.DWG, 11-AREA11.DWG, 12-AREA12.DWG, 13-AREA13.DWG, 14-AREA14.DWG, 15-AREA15.DWG, 16-AREA16.DWG, 17-AREA17.DWG, 18-AREA18.DWG, 19-AREA19.DWG, 20-AREA20.DWG, 21-AREA21.DWG, 22-AREA22.DWG, 23-AREA23.DWG, 24-AREA24.DWG, 25-AREA25.DWG, 26-AREA26.DWG, 27-AREA27.DWG, 28-AREA28.DWG, 29-AREA29.DWG, 30-AREA30.DWG, 31-AREA31.DWG, 32-AREA32.DWG, 33-AREA33.DWG, 34-AREA34.DWG, 35-AREA35.DWG, 36-AREA36.DWG, 37-AREA37.DWG, 38-AREA38.DWG, 39-AREA39.DWG, 40-AREA40.DWG, 41-AREA41.DWG, 42-AREA42.DWG, 43-AREA43.DWG, 44-AREA44.DWG, 45-AREA45.DWG, 46-AREA46.DWG, 47-AREA47.DWG, 48-AREA48.DWG, 49-AREA49.DWG, 50-AREA50.DWG, 51-AREA51.DWG, 52-AREA52.DWG, 53-AREA53.DWG, 54-AREA54.DWG, 55-AREA55.DWG, 56-AREA56.DWG, 57-AREA57.DWG, 58-AREA58.DWG, 59-AREA59.DWG, 60-AREA60.DWG, 61-AREA61.DWG, 62-AREA62.DWG, 63-AREA63.DWG, 64-AREA64.DWG, 65-AREA65.DWG, 66-AREA66.DWG, 67-AREA67.DWG, 68-AREA68.DWG, 69-AREA69.DWG, 70-AREA70.DWG, 71-AREA71.DWG, 72-AREA72.DWG, 73-AREA73.DWG, 74-AREA74.DWG, 75-AREA75.DWG, 76-AREA76.DWG, 77-AREA77.DWG, 78-AREA78.DWG, 79-AREA79.DWG, 80-AREA80.DWG, 81-AREA81.DWG, 82-AREA82.DWG, 83-AREA83.DWG, 84-AREA84.DWG, 85-AREA85.DWG, 86-AREA86.DWG, 87-AREA87.DWG, 88-AREA88.DWG, 89-AREA89.DWG, 90-AREA90.DWG, 91-AREA91.DWG, 92-AREA92.DWG, 93-AREA93.DWG, 94-AREA94.DWG, 95-AREA95.DWG, 96-AREA96.DWG, 97-AREA97.DWG, 98-AREA98.DWG, 99-AREA99.DWG, 100-AREA100.DWG

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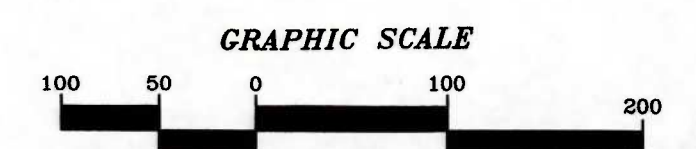
**NOTES:**

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4. 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.
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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.
5. 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 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.
6. 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.
7. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING PUBLIC ROADS IN A CLEAN, DUST AND MUD FREE CONDITION AT THE SITE.
8. ALL SILT FENCE SHALL BE INSTALLED ALONG THE CONTOURS, PERPENDICULAR TO THE FLOW OF WATER. SEE DETAIL ON DRAWING NO. 5.
9. 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. 6. 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.
10. EXISTING LOCATION OF CULVERTS SHOWN ON DRAWINGS WERE OBTAINED BY POTESTA DURING THE STREAM AND WETLAND DELINEATION STUDY, AND WERE LOCATED USING A GPS UNIT.
11. 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. 5 BASED ON FIELD CONDITIONS.
12. 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. 5.

SYMBOL	DESCRIPTION
	STREAMS
	PROPOSED PIPELINE
	PROPOSED COMPOSITE FILTER SOCK
	PROPOSED SILT FENCE
	PROPOSED WATERBAR
	PROPOSED PIPELINE TRENCH BREAKER
	PROPOSED STONE CONSTRUCTION ENTRANCE
	APPROXIMATE LOCATION OF EXISTING CULVERT
	PERMANENT RIGHT-OF-WAY
	LIMITS OF CONSTRUCTION/TEMPORARY RIGHT-OF-WAY



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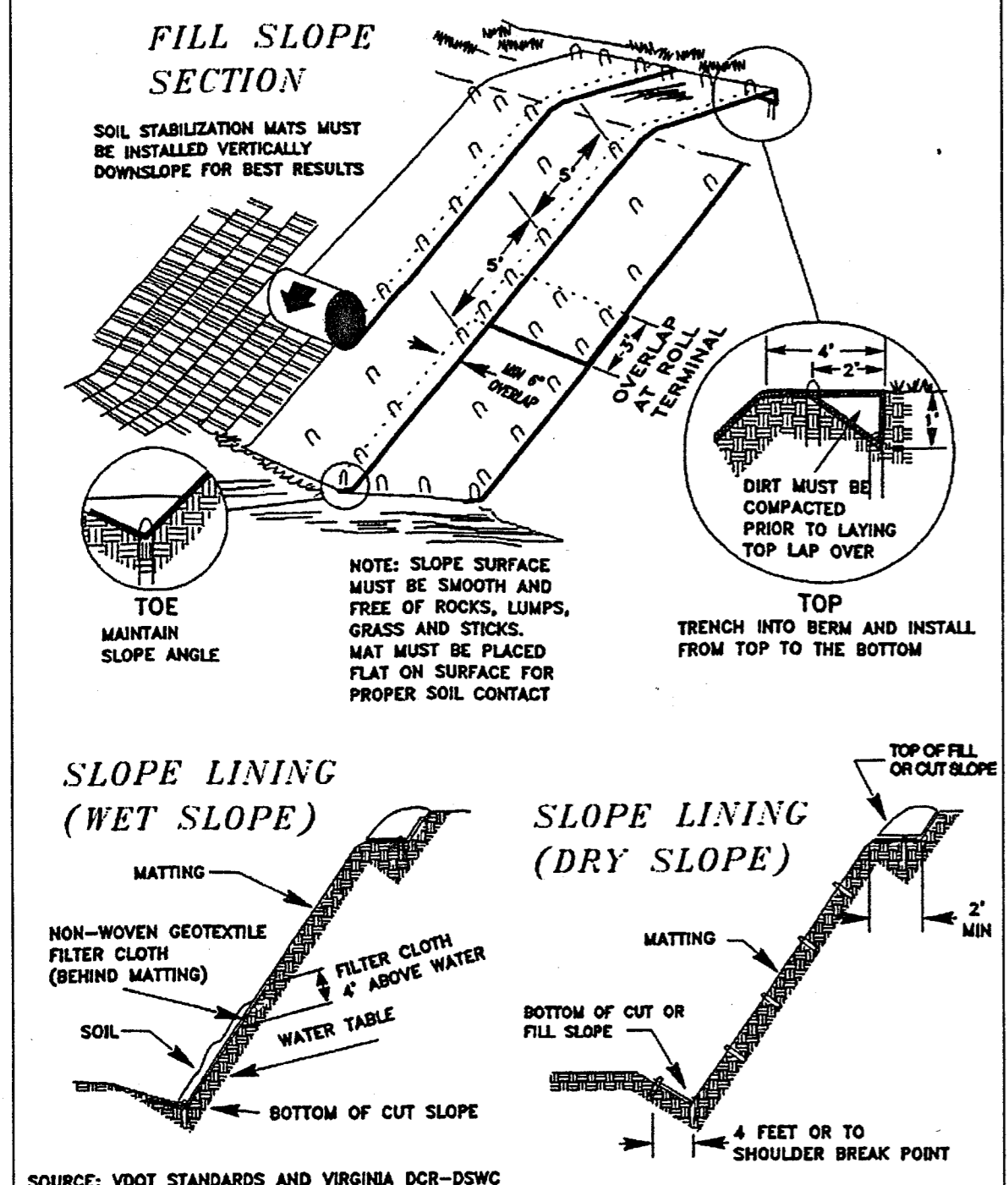
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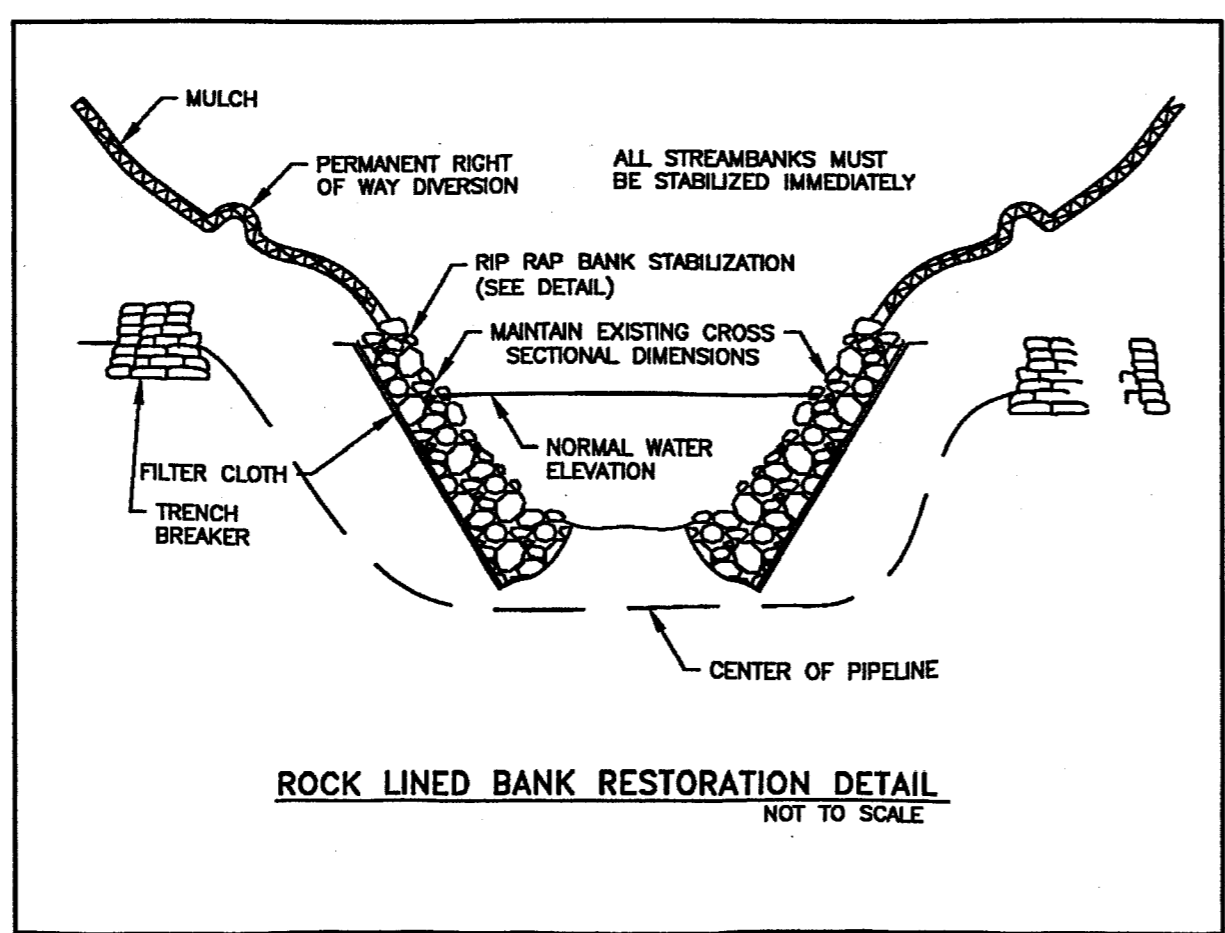
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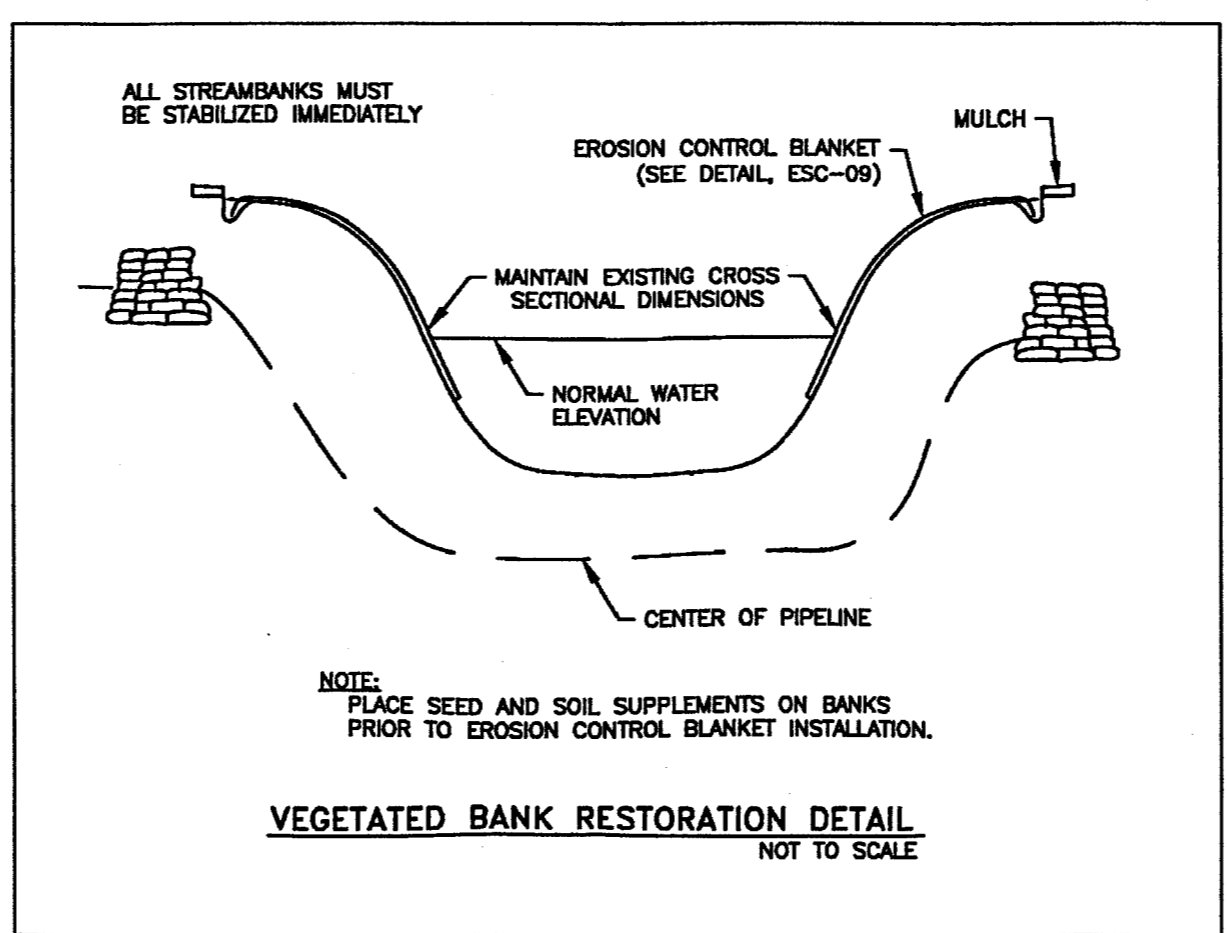
**ROLLED EROSION CONTROL PRODUCTS**



**ROLLED EROSION CONTROL MATTING** (1/6)  
 NO SCALE

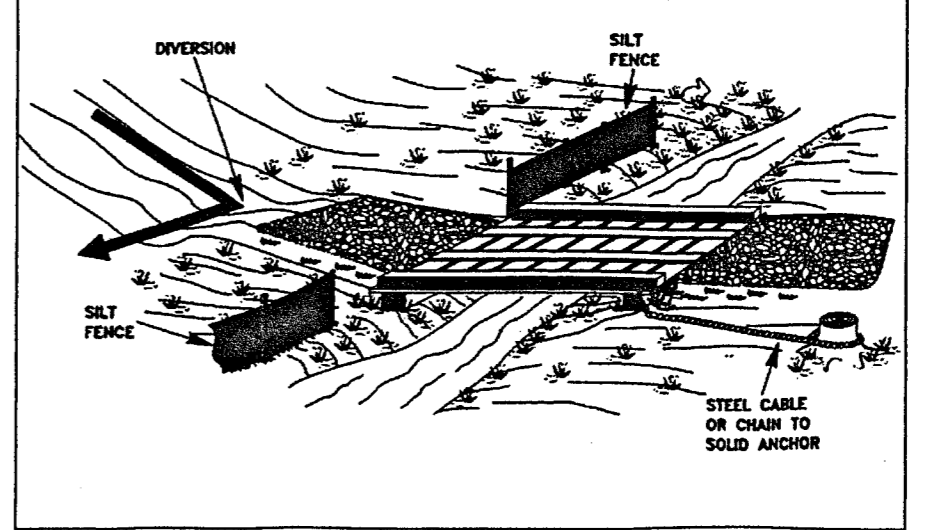


**ROCK LINE RESTORATION DETAIL** (2/6)  
 NO SCALE

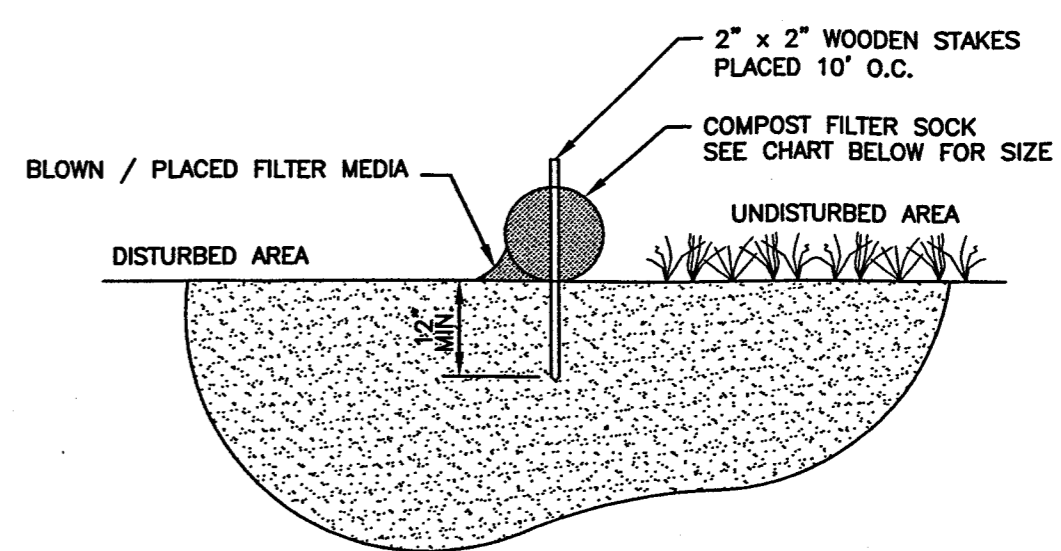


**VEGETATED BANK RESTORATION DETAIL** (3/6)  
 NO SCALE

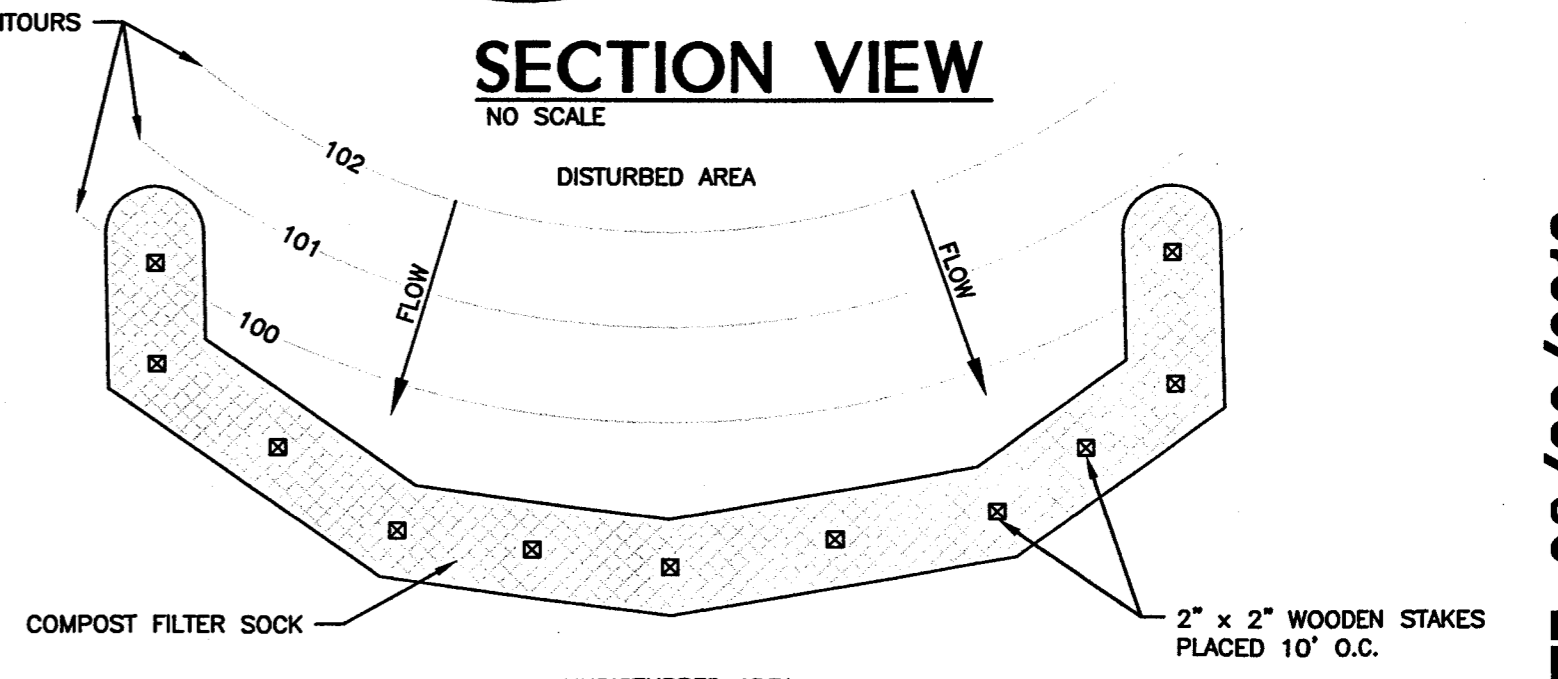
**TEMPORARY BRIDGE CROSSING**



**TEMPORARY BRIDGE CROSSING DETAIL** (7/6)  
 NO SCALE



**SECTION VIEW**  
 NO SCALE



**PLAN VIEW**  
 NO SCALE

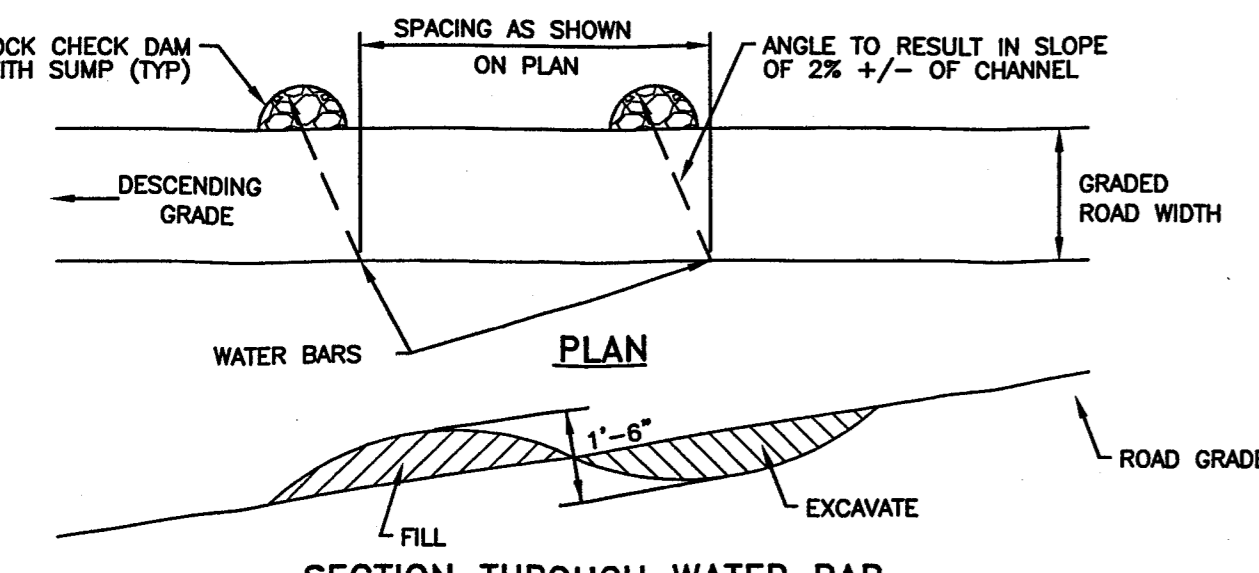
COMPOST SHALL MEET THE FOLLOWING STANDARDS

ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
PH	5.5 - 8.0
MOISTURE CONTENT	35% - 55%
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS MAXIMUM

SLOPE PERCENT	MAXIMUM SLOPE LENGTH ABOVE SEDIMENT CONTROL IN FEET *				
	8 INCH ** SEDIMENT CONTROL	12 INCH ** SEDIMENT CONTROL	18 INCH ** SEDIMENT CONTROL	24 INCH ** SEDIMENT CONTROL	32 INCH ** SEDIMENT CONTROL
2 OR LESS	6.5 INCH	9.5 INCH	14.5 INCH	19 INCH	26 INCH
5	600	750	1000	1300	1650
10	400	500	550	650	750
15	200	250	300	400	500
20	140	170	200	325	450
25	100	125	140	260	400
30	80	100	110	200	275
35	60	75	90	130	200
40	60	75	80	115	150
45	60	75	80	100	125
50	40	50	60	80	100
50	40	50	55	65	75

\* BASED ON A FAILURE OF 36" SUPER SILT FENCE (WIRE REINFORCED AT 1000 FEET OF SLOPE, WATERSHED EQUIVALENT TO RECEIVING LENGTH OF SEDIMENT CONTROL DEVICE, 1 IN. / 24 HR RAIN EVENT)  
 \*\* EFFECTIVE HEIGHT OF SEDIMENT CONTROL AFTER INSTALLATION AND WITH CONSTANT HEAD FROM RUNOFF AS DETERMINED BY OHIO STATE UNIVERSITY.

**COMPOST FILTER SOCK** (6/6)  
 NO SCALE



NOTE:  
 1. PROVIDE GRADUAL TRANSITION FOR CUT AND FILL SUCH THAT PICKUP TRUCK CAN CROSS WATER BAR  
 2. ROCK CHECK DAM WITH SUMP SHALL BE USED AS OUTLET PROTECTION WITH WATER BARS.

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

**WATER BAR WITH ROCK CHECK DAM WITH SUMP OUTLET** (4/6)  
 NO SCALE

For use where natural vegetation alone will provide permanent erosion protection.

**ULTRA SHORT-TERM - Typical 3 month functional longevity.**

Typ Product Description	Material Composition	Slope Applications*		Channel Applications*		Minimum
		Maximum Gradient	C Factor <sup>2,5</sup>	Max. Shear Stress <sup>3,4,6</sup>	Max. Shear Stress <sup>3,4,6</sup>	Tensile Strength <sup>1</sup>
1.A Mulch Control Nets	A photodegradable synthetic mesh or woven biodegradable natural fiber netting.	5:1 (H:V)	≤ 0.10 @ 5:1	0.25 lbs/ft <sup>2</sup> (12 Pa)	5 lbs/ft (0.073 kN/m)	5 lbs/ft (0.073 kN/m)
1.B Netless Rolled Erosion Control Blankets	Natural and/or polymer fibers mechanically interlocked and/or chemically adhered together to form a RECP.	4:1 (H:V)	≤ 0.10 @ 4:1	0.5 lbs/ft <sup>2</sup> (24 Pa)	5 lbs/ft (0.073 kN/m)	5 lbs/ft (0.073 kN/m)
1.C Single-net Erosion Control Blankets & Open Weave Textiles	Processed degradable natural and/or polymer fibers mechanically bound together by a single rapidly degrading, synthetic or natural fiber netting or an open weave textile of processed rapidly degrading natural or polymer yarns or twines woven into a continuous matrix.	3:1 (H:V)	≤ 0.15 @ 3:1	1.5 lbs/ft <sup>2</sup> (72 Pa)	50 lbs/ft (0.73 kN/m)	50 lbs/ft (0.73 kN/m)
1.D Double-net Erosion Control Blankets	Processed degradable natural and/or polymer fibers mechanically bound together between two rapidly degrading, synthetic or natural fiber nettings.	2:1 (H:V)	≤ 0.20 @ 2:1	1.75 lbs/ft <sup>2</sup> (84 Pa)	75 lbs/ft (1.09 kN/m)	75 lbs/ft (1.09 kN/m)

**SHORT-TERM - Typical 12 month functional longevity.**

Typ Product Description	Material Composition	Slope Applications*		Channel Applications*		Minimum
		Maximum Gradient	C Factor <sup>2,5</sup>	Max. Shear Stress <sup>3,4,6</sup>	Max. Shear Stress <sup>3,4,6</sup>	Tensile Strength <sup>1</sup>
2.A Mulch Control Nets	A photodegradable synthetic mesh or woven biodegradable natural fiber netting.	5:1 (H:V)	≤ 0.10 @ 5:1	0.25 lbs/ft <sup>2</sup> (12 Pa)	5 lbs/ft (0.073 kN/m)	5 lbs/ft (0.073 kN/m)
2.B Netless Rolled Erosion Control Blankets	Natural and/or polymer fibers mechanically interlocked and/or chemically adhered together to form a RECP.	4:1 (H:V)	≤ 0.10 @ 4:1	0.5 lbs/ft <sup>2</sup> (24 Pa)	5 lbs/ft (0.073 kN/m)	5 lbs/ft (0.073 kN/m)
2.C Single-net Erosion Control Blankets & Open Weave Textiles	An erosion control blanket composed of processed degradable natural or polymer fibers mechanically bound together by a single degradable synthetic or natural fiber netting to form a continuous matrix or an open weave textile composed of processed degradable natural or polymer yarns or twines woven into a continuous matrix.	3:1 (H:V)	≤ 0.15 @ 3:1	1.5 lbs/ft <sup>2</sup> (72 Pa)	50 lbs/ft (0.73 kN/m)	50 lbs/ft (0.73 kN/m)
2.D Double-net Erosion Control Blankets	Processed degradable natural and/or polymer fibers mechanically bound together between two degradable, synthetic or natural fiber nettings.	2:1 (H:V)	≤ 0.20 @ 2:1	1.75 lbs/ft <sup>2</sup> (84 Pa)	75 lbs/ft (1.09 kN/m)	75 lbs/ft (1.09 kN/m)

**EXTENDED-TERM - Typical 24 month functional longevity.**

Typ Product Description	Material Composition	Slope Applications*		Channel Applications*		Minimum
		Maximum Gradient	C Factor <sup>2,5</sup>	Max. Shear Stress <sup>3,4,6</sup>	Max. Shear Stress <sup>3,4,6</sup>	Tensile Strength <sup>1</sup>
3.A Mulch Control Nets	A slow degrading synthetic mesh or woven natural fiber netting.	5:1 (H:V)	≤ 0.10 @ 5:1	0.25 lbs/ft <sup>2</sup> (12 Pa)	25 lbs/ft (0.36 kN/m)	25 lbs/ft (0.36 kN/m)
3.B Erosion Control Blankets & Open Weave Textiles	An erosion control blanket composed of processed slow degrading natural or polymer fibers mechanically bound together between two slow degrading synthetic or natural fiber nettings to form a continuous matrix or an open weave textile composed of processed slow degrading natural or polymer yarns or twines woven into a continuous matrix.	1.5:1 (H:V)	≤ 0.25 @ 1.5:1	2.00 lbs/ft <sup>2</sup> (96 Pa)	100 lbs/ft (1.45 kN/m)	100 lbs/ft (1.45 kN/m)

**LONG-TERM - Typical 36 month functional longevity.**

Typ Product Description	Material Composition	Slope Applications*		Channel Applications*		Minimum
		Maximum Gradient	C Factor <sup>2,5</sup>	Max. Shear Stress <sup>3,4,6</sup>	Max. Shear Stress <sup>3,4,6</sup>	Tensile Strength <sup>1</sup>
4 Erosion Control Blankets & Open Weave Textiles	An erosion control blanket composed of processed slow degrading natural or polymer fibers mechanically bound together between two slow degrading synthetic or natural fiber nettings to form a continuous matrix or an open weave textile composed of processed slow degrading natural or polymer yarns or twines woven into a continuous matrix.	1:1 (H:V)	≤ 0.25 @ 1:1	2.25 lbs/ft <sup>2</sup> (108 Pa)	125 lbs/ft (1.82 kN/m)	125 lbs/ft (1.82 kN/m)

<sup>1</sup> C Factor and shear stress for Types 1.A, 2.A, and 3.A mulch control nettings must be obtained with netting used in conjunction with pre-applied mulch material.  
<sup>2</sup> Minimum Average Roll Values. Machine direction using ECTC Mod. ASTM D 5035.  
<sup>3</sup> C Factor calculated as ratio of soil loss from RECP protected slope (tested at specified or greater gradient, h:v) to ratio of soil loss from unprotected (control) plot in large-scale testing. These performance test values should be supported by periodic bench scale testing under similar test conditions and failure criteria using Erosion Control Technology Council (ECTC) Test Method #2.  
<sup>4</sup> Required minimum shear stress RECP (unvegetated) can sustain without physical damage or excess erosion (> 12.7 mm (0.5 in) soil loss) during a 30-minute flow event in large-scale testing. These performance test values should be supported by periodic bench scale testing under similar test conditions and failure criteria using Erosion Control Technology Council (ECTC) Test Method #3.  
<sup>5</sup> The permissible shear stress levels established for each performance category are based on historical experience with products characterized by Manning's roughness coefficients in the range of 0.01 - 0.05.  
<sup>6</sup> Acceptable large-scale test methods may include ASTM D6459, Erosion Control Technology Council (ECTC) Test Method #2, or other independent testing deemed acceptable by the engineer.  
 \* Per the engineers discretion. Recommended acceptable large-scale testing protocol may include ASTM D6460, Erosion Control Technology Council (ECTC) Test Method #3 or other independent testing deemed acceptable by the engineer.

**ECTC STANDARD SPECIFICATION FOR TEMPORARY ROLLED EROSION CONTROL PRODUCTS** (5/6)  
 NO SCALE

ISSUE DATE 08/30/2013

EQT PRODUCTION COMPANY  
 115 PROFESSIONAL PLACE  
 BRIDGEPORT, WEST VIRGINIA

MISCELLANEOUS DETAILS  
 EQT WEBB WELL LINE  
 EROSION & SEDIMENT CONTROL PLAN  
 DODDRIDGE COUNTY, WEST VIRGINIA