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CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com Certified Mall Fee STUNION Extra Services & Fees (check box, add fae as appropriate) Return Receipt (nardcopy) Return Receipt (electronic) Certified Mall Restricted Delivery \$ Adult Signature Required Adult Signature Restricted Delivery \$ Postage 49 Total Postage and Fees Sent To Sireet and Apt. No., or PO Box No.	

COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature ■ Complete items 1, 2, and 3. □ Agent Print your name and address on the reverse Addressee so that we can return the card to you. Br. Received by (Printed Name) C. Date of Delivery Attach this card to the back of the mailpiece. or on the front if space permits. Article Addressed to: D. Is delivery address different from item 1? If YES, enter delivery address below: Mr. John R. Clowser 3735 Big Issac Road Salem. WV 26426 3. Service Type ☐ Priority Mail Express® ☐ Adult Signature □ Registered Mail™ ☐ Adult Signature Restricted Delivery □ Registered Mail Restricted ☐ Certified Mail® Delivery ☐ Certified Mail Restricted Delivery Return Receipt for 9590 9402 2859 7069 5448 34 Merchandise ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™ 2. Article Number (Transfer from service label) ☐ Signature Confirmation ☐ Insured Mail Restricted Delivery ☐ Insured Mail Restricted Delivery (over \$500) PS Form 3811, July 2015 PSN 7530-02-000-9053 **Domestic Return Receipt**





United States Postal Service

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

George Eidel
Doddridge County OEM/CFM
105 Court St., Ste. 3
West Union, WV 26456

17-473

COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature Complete items 1, 2, and 3. 그 Agent Print your name and address on the reverse Addressee so that we can return the card to you. B. Received by (Printed Name) C. Date of Delivery Attach this card to the back of the mailpiece. or on the front if space permits. 1. Article Addressed to: D. Is delivery address different from item 1? If YES, enter delivery address below: Mr. Farl Richards 544 Independence Road Salem. WV 26426 Service Type □ Priority Mail Express® ☐ Adult Signature ☐ Registered Mail™ ☐ Adult Signature Restricted Delivery ☐ Realstered Mail Restricted ☐ Certified Mail® Delivery ☐ Certified Mail Restricted Delivery Return Receipt for 9590 9402 2859 7069 5448 10 Merchandise □ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™ 2. Article Number (Transfer from service label) ☐ Insured Mail □ Signature Confirmation Restricted Delivery ☐ Insured Mail Restricted Delivery (over \$500) PS Form 3811, July 2015 PSN 7530-02-000-9053 **Domestic Return Receipt**





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

United States Postal Service

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

George Eidel
Doddridge County OEM/CFM
105 Court St., Ste. 3
West Union, WV 26456

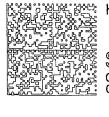
1-473

George Eidel Doddridge County OEM/CFM 105 Court St., Ste. 3 West Union, WV 26456



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\$006.59 07/26/2017 ZIP 012E14643162

0008/15/17

Mr. John Russel Clowser P.O. Box 98 Lost Creek, WV 26385



250 TO SENDER

UNABLE TO FORWARD BC: 26456201205 *1771-14623-27-45

UNC

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X
Mr. John Russel Clowser P.O. Box 98 Lost Creek, WV 26385	D. Is delivery address different from item 1? If YES, enter delivery address below: No
9590 9402 2859 7069 5448 03 2. Article Number (Trainsfer from service label)	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail Restricted Delivery ☐ Insured Mail Restricted Delivery ☐ Registered Mail Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail Restricted Delivery ☐ Restricted Delivery ☐ Restricted Delivery

Doddridge County Office of Emergency Management/Floodplain Management 105 Court Street Suite 3 Tel 304-873-1343 doddridgecountyfpm@gmail.com



Dear Sir or Ma'am,

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

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

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

Respectfully yours,

George Eidel, CFM

Doddridge County Floodplain Manager



Doddridge County Floodplain Permits

(Week of July 31, 20117)

Please take notice that on the 25th day of July, 2017, Potesta Engineers and Environmental Consultants on behalf of Mountain Valley Pipeline, LLC filed an application for a Floodplain Permit (#17-473) to develop land located at or about 11872 Meathouse Fork coordinates 39.2012850 N₁-80.5533870 W. 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 August 21, 2017 (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. This project is for the Mountain Valley Pipeline project.



Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible and must remain posted during entirety of development.

Permit #: 17-473 (90 Day Extension)

Date Approved: August 21, 2018 Expires: November 19, 2018

Issued to: Mountain Valley Pipeline, LLC POC: Matt Hoover 724-873-3009

Company Address: 555 Southpoint Blvd., Ste. 200 Canonsburg, PA. 15317

Project Address: 11872 Meathouse Fork Rd

Firm: 54017C0260C Lat/Long: 39.2012850 N,-80.553870 W

Purpose of development: Natural Gas Pipeline Project

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

Date: August 21, 2018



Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible, and must remain posted during entirety of development.

Permit: #17-473

Date Approved: August 21, 2017 Expires: August 21, 2018

Issued to: Mountain Valley Pipeline, LLC POC: Matt Hoover 724/873-3009

Company Address: 555 Southpoint Blvd., Ste. 200 Canonsburg, PA 15317

Project Address: 11872 Meathouse Fork

Firm: 54017C0260C Lat/Long: 39.2012850N, -80.5533870W

Purpose of Development: Pipeline Project

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

Date: August 21, 2017

COPY

COPY

POTESTA & ASS	SOCIATES INC	Heatischering red imageoisappears with Heat	Detection area reveals a lock w	NEW, TESTED)	13878
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#	- 17-47	3			

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Doddridge County, West Virginia

RECEIPT	NO : 9	9434			DATE: 2017/08/		/02	
	FROM:	POTESTA & A	ASSOCIATES II	NCA	MOUNT: \$	•	3,24	5.32
THREE	THOUSAND	TWO HUNDREI	FORTY FIVE	DOLLARS	AND 32	CENTS		
:	FOR:	#17-473 FLC	OODPLAIN PERI	MIT				
00000	013878	FP-BUILDING	PERMITS		020-3	318	TOTAL:	\$3,245.32
	MICHAEL SHERI	HEADLEY FF &TREASURER					EC	

Customer Copy

FLOODPLAIN PERMIT #17-473

11872 Meathouse Fork/Pipeline Project

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	<i>\(\)</i>	
US ARMY CORP. ENGINEERS	,	
(USACE)	,	
US FISH & WILDLIFE		
SERVICES (USFWS)		
WV DEPT. NATURAL	·	
RESOURCES (WVDNR)		
WV DEPT. ENVIROMENTAL		
PROTECTION (WVDEP)		
STATE HISTORIC &		
PRESERVATION OFFICE		
(SHPO)		
OFFICE of LAND & STREAM		
(OLS)		
DATE OF COMMISSION	,	
READING	, ,	
DATE AVAILABLE TO BE	, ,	
GRANTED	c / 1 /	
PERMIT GRANTED		
COMPLETE		

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Doddridge County Floodplain Permits

(Week of July 31, 20117)

Please take notice that on the 25th day of July, 2017, Potesta Engineers and Environmental Consultants on behalf of Mountain Valley Pipeline, LLC filed an application for a Floodplain Permit (#17-473) to develop land located at or about 11872 Meathouse Fork coordinates 39.2012850 N_J-80.5533870 W. 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 August 21, 2017 (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. This project is for the Mountain Valley Pipeline project.



JUL24 17 11:26AM

July 14, 2017

Mr. George Eidel Doddridge County Floodplain Coordinator **Doddridge County Commission** 118 East Court Street West Union, West Virginia 26456

RE:

Floodplain Permit Application

Mountain Valley Pipeline, LLC (MVP) Doddridge County, West Virginia

POTESTA Project No. 0101-16-0259-008C

Dear Mr. Eidel:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this cover letter with the associated Floodplain Development Permit Application for the proposed Mountain Valley Pipeline (MVP) Project. MVP spans from northwestern West Virginia to southern Virginia, with approximately 196 miles in West Virginia and 5 miles being located within Doddridge County.

One floodplain crossing is located in Doddridge County with approximately 250 linear feet of pipeline construction at Station 1837+00. Temporary aboveground construction within floodplain limits include additional temporary work space (ATWS) utilized for stream crossing support, access roads including stone construction entrances, timber mats, and various erosion and sediment control devices (compost filter sock (CFS), silt fence, super silt fence, and erosion matting). Permanent aboveground structures associated with crossings within the floodplain limits will be one service pole associated with the ground bed rectifier systems and mainline valve sites at linear Station 1837+00. It should be noted that the mainline valve site will be placed at the current ground elevation without increasing the current grade. Additionally, construction of permanent roads, temporary roads, or maintenance of existing roads will occur within the floodplain limits. The one crossing is located within the FEMA Flood Zone AE, which 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 determined by detailed methods.

Included within this letter are the following documents: the permit application, directions to the sites, relative construction drawings, and details of temporary or permanent structures within the floodplain limits.

Mr. George Eidel July 14, 2017 Page 2

Below is an expanded list of each crossing and its associated temporary and permanent construction activities.

Page Number	Mile Post	Stationing	Temporary Impacts	Permanent Impacts
2.52	34.8	1837+00 to 1839+50	Timber Mat, Stone Construction Entrance, SSF, ATWS	Ground Bed Rectifier, Access Road, Mainline Valve Site

If you have any questions, please feel free to contact me at (304) 342-1400 or jmsmith@potesta.com or Matt Hoover (MVP) at (724) 873-3009 or mhoover@eqt.com.

Sincerely,

POTESTA & ASSOCIATES, INC.

JUL24 17 11:26AN

Senior Engineer

JMS:JWB/clr

Enclosures

c:

Mr. Matt Hoover – MVP (via email)



Permit# 17-473

Project Name: Mountain Valley Pipeline

Mountain Valley

Permittees Name: Pipeline, LLC

Doddridge County, WV

Floodplain Development Permit Application

This document is to be used for projects that impact/potentially impact the FEMA—designated floodplain and/or floodway of Doddridge County, WV pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance.

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

- No work may start until a permit is issued.
- The permit may be revoked if any false statements are made herein.
- 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.
- 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

TO THIS APPLICATION ARE, I	ATHERESI OF WAKNOM	LEDGE, TRUE AND ACCURATE.
APPLICANT'S SIGNATURE	Show M.	lash
DATE	7-6-17	

JUL24 17 11:26AN

Applicant Information:

Please provide all pertinent data.

Applicant Information				ليدو
Responsible Company Name:	Mountain Valley I	Pipeline, LLC	to the symmetry of the second system of the second	<u></u>
Corporate Mailing Address:	555 Southpoint B	oulevard, Suite 2	00	
City: Canonsburg		State: PA	Zip: 15317	
Corporate Point of Contact (P	OC): Matt Hoove	r		
Corporate POC Title:	Senior Envi	ronmental Coord	inator	
Corporate POC Primary Phon	e: (724) 873-3	009		
Corporate POC Primary Emai	l: MHoover@e	eqt.com		
Corporate FEIN: 25-0754	685	Corporate DUN	S: N/A	
Corporate Website: N/A				_
Local Mailing Address: N/A				
City: N/A		State: N/A	Zip: N/A	_
Local Project Manager (PM):	Same as Point of	Contact		
Local PM Primary Phone:	Same as Point of	Contact		_
Local PM Secondary Phone:	Same as Point of	Contact		_
Local PM Primary Email:	Same as Point of	Contact		
Person Filing Application:	Jordan Beard		1910	_
Applicant Title:	Engineer			\dashv
Applicant Primary Phone:	(304) 342-1400			\dashv
Applicant Secondary Phone:	N/A			_
Applicant Primary Email:	jwbeard@potesta.	.com		\dashv
				[

Project Narrative:

Describe in detail the proposed development including project name/title, type of development, estimated start and completion timeline, and its potential impact on the floodplain. Use additional copies of this page as needed.

Project Narrative:
One floodplain crossing is located in Doddridge County with approximately 250 linear feet of
pipeline construction at Station 1837+00. Temporary aboveground construction within floodplain
limits include additional temporary work space (ATWS) utilized for stream crossing support, access
roads including stone construction entrances, timber mats and various erosion and sediment control
devices (compost filter sock (CFS), silt fence, super silt fence, and erosion matting). Permanent
aboveground structures associated with crossings within the floodplain limits will be one service pole
associated with the ground bed rectifier systems and mainline valve sites at linear Station 1837+00.
t should be noted that the mainline valve site will be placed at the current ground elevation without
ncreasing the current grade. Additionally, construction of permanent roads, temporary roads, or
maintenance of existing roads will occur within the floodplain limits. Estimated construction cost
is \$549,064.

Proposed Development:

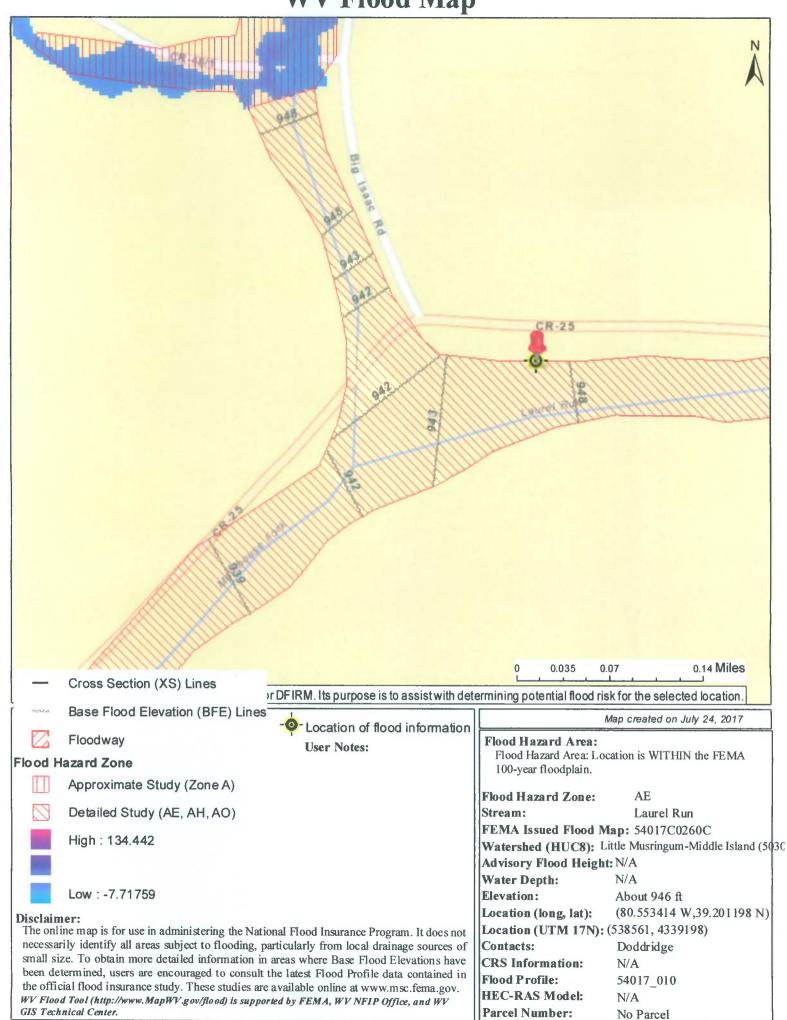
Please check all elements of the proposed project that apply.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

	<u>AC</u>	IIVITY				STRUCTU	RAL TYPE
[]	New Struct	ure			[]	Residential	(1 – 4 Family)
[]	Addition				[]	Residential	(more than 4 Family)
[]	Alteration				[]	Non-reside	ntial (floodproofing)
[]	Relocation				0	Combined	Use (res. & com.)
[]	Demolition				[]	Replaceme	nt
[]	Manufactu	ıred/Mo	bil Home				
В.	OTHER DE	VELOP	LMENT ACTI	VITIES:	;		
[]	Fill	[]	Mining	0	Drilling	; <u>[</u>]	Pipelining
[]	Grading				_		
[]	Excavation	(except	for STRUCTUR	RAL DEVE	ELOPMENT	Γ checked al	bove)
[]			ntion (including				· ·
[]			nents (includin				
[]	Road, Stree	t, or Bri	dge Construct	ion	·		
[]	Subdivision	(includi	ng new expan	sion)			
[]	Individual \	Nater or	Sewer Systen	n			
[]	Other (plea	se speci	fy)				
4							

WV Flood Map



Development Site/Property Information:

Property Designation: ____ of ___

Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)

Site/Property Informa	ation:			
Legal Description:	Please See Attache			
	•	-		
Physical Address/911	Address:			
Decimal Latitude/Lon	gitude: 39.201285, -80.55	3387		
DMS Latitude/Longitu	de:			
District:	Map:		Parcel	:
Land Book Description	n:			
Deed Book Reference:				
Tax Map Reference:				
Existing Buildings/Use	e of Property:			
Floodplain Location D	ata: (to be completed	by Floodplain Man	ager or de	signee)
Community:	Number:	Panel:		Suffix:
Location (Lat/Long):		Approximat	e Elevatio	h:
		Estimated B	FE:	
Is the development in	the floodway?	Is the devel	opment in	the floodplain?
Yes No	0	Yes	No	Zone:
Notes:				
·				

Mountain Valley provided a non-public list of affected landowners to FERC. FERC requires that this **Property Owner Data:** information be filed as privileged to protect the privacy of the landowners. To be consistent with these FERC requirements, the landowner information has been omitted from this application.

to each property listed above.

Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation

Property Owner Data: Name of Primary Owner (PO): PO Address: City: PO Primary Phone: PO Secondary Phone: PO Primary Email: Surface Rights Owner Data: Name of Primary Owner (PO): PO Address: City: State: Zip: PO Primary Phone: PO Primary Phone: PO Primary Email: Mineral Rights Owner Data: (As Applicable): Name of Primary Owner (PO): PO Address: City: State: Zip: Mineral Rights Owner Data: (As Applicable): Name of Primary Owner (PO): PO Address: City: State: Zip: PO Primary Email:	See attached for property owners/adjacent landowners.	See attached for prope	ty Designation: of S
Name of Primary Owner (PO): PO Address: City: PO Primary Phone: PO Secondary Phone: Surface Rights Owner Data: Name of Primary Owner (PO): PO Address: City: State: Zip: PO Primary Phone: PO Primary Phone: PO Primary Email: Mineral Rights Owner Data: (As Applicable): Name of Primary Owner (PO): PO Address: City: State: Zip: PO Primary Email: Mineral Rights Owner Data: (As Applicable): Name of Primary Owner (PO): PO Address: City: State: Zip: PO Primary Phone: PO Secondary Phone:			ty Owner Data:
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City: State: Zip: PO Primary Phone: PO Secondary Phone:			f Primary Owner (PO):
PO Primary Phone: PO Secondary Phone:			ress:
PO Secondary Phone:	State: Zip:	State:	
			nary Phone:
PO Primary Email:			ondary Phone:
			nary Email:

DODDRIDGE COUNTY FLOODPLAIN LAND OWNER INFORMATION MOUNTAIN VALLEY PIPELINE

Owner	Address	Legal Description	Mile Post	District	Мар	Parcel	Deed Book/Page
and the state of t		Land Owners					
Jeffery J Ford	15 Meadow LN Bridgeport, WV 26330	Meathouse 90.74 AC	34.8	04	11	36	281/665
	A A	djacent Land Ov	wners				
Jeffery J Ford	15 Meadow LN Bridgeport, WV 26330	BIG Isaac 1 AC	34.8	04	11	31	281/665
Jeffery J Ford	15 Meadow LN Bridgeport, WV 26330	BIG Isaac 30 AC	34.8	04	11	35	WB41/619
Earl Richards (Life)	544 Independence Road, Salem, WV 26426	5.36 AC Meathouse	34.8	04	11	37.7	258/200
Earl Richards (Life)	544 Independence Road, Salem, WV 26426	2 AC Meathouse	34.8	04	11	37.6	258/194
John R Clowser	3735 Big Issac Rd, Salem, WV 26426	1.51 AC Meathouse	34.8	04	11	37.4	305/436
John Russel Clowser	PO Box 98, Lost Creek, WV 26385	77 PO TWO LOTS MEATHOUSE	34.8	04	11	37.2	296/700
Brett Cox	3611 Haigker Road, Monroe, NC, 28110	Meathouse 30.18 AC	34.8	04	11	37.5	316/583

Mountain Valley provided a non-public list of affected landowners to FERC. FERC requires that this information be filed as privileged to protect the privacy of the landowners. To be consistent with these FERC requirements, the landowner information has been omitted from this application.

Contractor Data:

Property Designation:

of.

Please provide all pertinent data for contractors and sub---contractors that may be participating in this project. Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Contractor/Sub-Contractor (C/SC) I	nformation:	
C/SC Company Name: N/A		
C/SC WV License Number:		
C/SC FEIN:	C/SC DUNS	
Local C/SC Point of Contact (POC):	J	
Local C/SC POC Title:		
C/SC Mailing Address:		
City:	State:	Zip-Code:
Local C/SC Office Phone:	·	
Local C/SC POC Phone:		
Local C/SC POC E-Mail:		
Engineer Firm Information:		
Engineer Firm Information: Engineer Firm Name:	Engineer Fi	
Engineer Firm Information: Engineer Firm Name: Engineer WV License Number:	Engineer Fi	
Engineer Firm Information: Engineer Firm Name: Engineer WV License Number: Engineer Firm FEIN:	Engineer Fi	
Engineer Firm Information: Engineer Firm Name: Engineer WV License Number: Engineer Firm FEIN: Engineer Firm Primary Point of Con	Engineer Fi	
Engineer Firm Information: Engineer Firm Name: Engineer WV License Number: Engineer Firm FEIN: Engineer Firm Primary Point of Con	Engineer Fi	
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Engineer Firm Information: Engineer Firm Name: Engineer WV License Number: Engineer Firm FEIN: Engineer Firm Primary Point of Con Engineer Firm Primary POC Title: Engineer Firm Mailing Address: City:	Engineer Fintact (POC): State:	rm DUNS:

Adjacent and/or Affected Landowners Data

Please provide data for all adjacent and/or affected surface owners (both up and down stream) whose property may be impacted by proposed development as demonstrated by a floodplain study or survey. Use additional copies of this page as needed.

Name of Primary Owner (PO):	eam		
Physical Address:			
City:	State:	Zip:	
PO Primary Phone:			
PO Secondary Phone:			
PO Primary Email:			
Adjacent Property Owner Data: Upstr	eam		
Name of Primary Owner (PO):			
Physical Address:			
City:	State:	Zip:	
PO Primary Phone:			
PO Secondary Phone:			
PO Primary Email:			
Adjacent Property Owner Data: Down	stream 80		136
Name of Primary Owner (PO):			
Physical Address:			
City:	State:	Zip:	
PO Primary Phone:			
PO Secondary Phone:			
PO Primary Email:			
Adjacent Property Owner Data: Down	stream		A.3.
Name of Primary Owner (PO):			
Physical Address:			
Physical Address: City:	State:	Zip:	
	State:	Zip:	
City:	State:	Zip:	
City: PO Primary Phone:	State:	Zip:	

Site Plan

A Site Plan is an accurate and detailed map of the proposed development for this project. It shows the size, shape, location and special features of the project property, and the size and location of any development planned to the property, especially as that development will impact the floodplain and/or floodway. Site plans show what currently exists on the project property, and any changes or improvements you are proposing to make. A certified and licensed engineering firm should complete site plans.

A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:

- 1. Legal description of the parcel, north arrow and scale
- 2. All property lines and their dimensions
- 3. Names of adjacent roads, location ofdriveways
- 4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
- 5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
- 6. Location and dimensions of existing or proposed on-site sewage systems.
- 7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
- 8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
- 9. Location and dimensions of any roadway development into floodplain/floodway. (Includes initial development access roads)
- 10. Location and dimensions of any bridge and/or culvert development into floodplain/floodway.
- 11. Location and dimensions of any storage yard or facility into the floodplain/floodway.
- 12. Location of any existing utilities and/or proposed utility placement and/or displacement.
- 13. Location, dimensions and depth of any existing or proposed fill on site.
- 14. A survey showing the **existing ground elevations** of at least location on the building site. **ELEVATION NOTE**: All vertical datum will reference either NGVD 29 or NAVD 88. Assumed datum will not be acceptable unless the property is located in an area where vertical datum has not been published. For those areas where vertical datum has not been established, a site plan with contours, elevations using assumed datum, high water marks and existing water levels of sloughs, rivers, lakes or streams and proposed lowest floor elevation.

Applicant

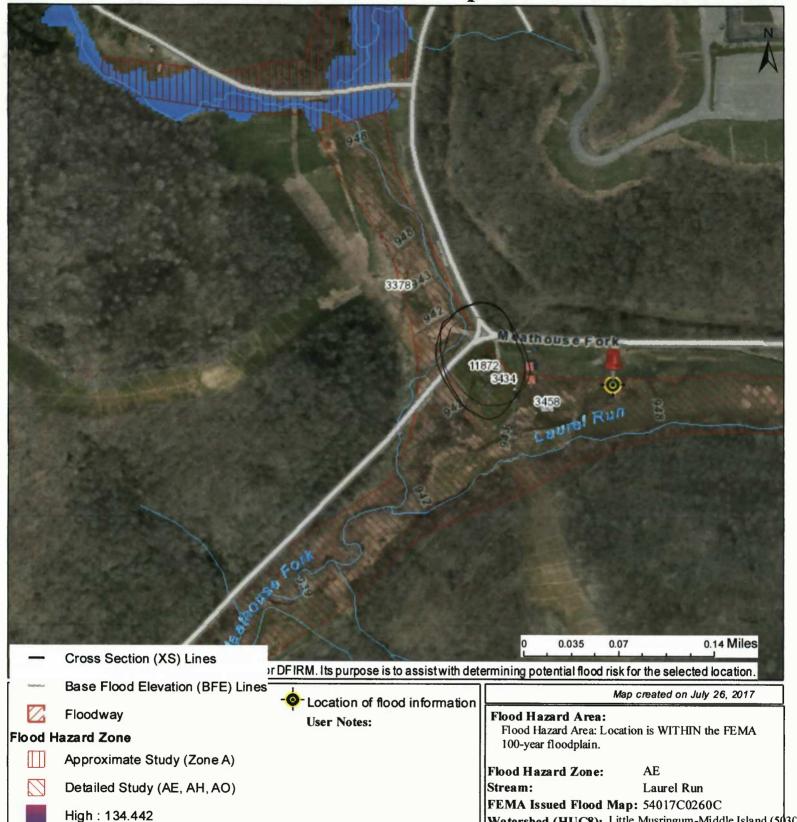
Please read print name, sign and date below:

- I certify that I am authorized to submit this application for the primary project developer.
- I certify that the information included in this application is to the best of my knowledge true and
- i certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have been properly attained, are current and valid, and must be presented with this application before a Doddridge County Floodplain Permit
- I understand that if in the course of the development project additional permits become required that were not needed during the initial proposal, the primary developer must notify the Doddridge County Floodplain Manager within 48 hours of such need, and that a "Stop Work" order may be issued for all project work directly impacting the floodplain or floodway, until such time the required additional permits are acquired.
- I understand that once the floodplain permit is submitted, the application will be entered into official public record at the next regularly scheduled Doddridge County Commission meeting after the date of submittal.
- understand that from the date of submittal of the fully completed permit application, the Doddridge County Floodplain Manager has ninety (90) days to make a determination to either grant or deny said permit application. During this approval period, the Doddridge County Floodplain Manager may, at his or her discretion, conduct a review and/or additional study of provided documentation by means of an independent engineering firm. All costs associated with said review and/or study must be reimbursed to the County before issuance of approved permit.
- l understand that during the approval period, the Doddridge County Floodplain Manager of designee may at his or her discretion conduct site visits and document conditions of proposed development pursuant to the permit application.
- I understand that once the Floodplain Permit is granted, the permit will be entered into official public record at the next scheduled Doddridge County Commission meeting after the date of issuance. Appeals to the permit may be made no later than twenty (20) days after said issuance. If a valid appeal is submitted, as determined by the Doddridge County Floodplain Manager, a "Stop Work" order will be issued for all project development directly involving the floodplain or floodway. A public hearing by the Doddridge County Appeals Board will be scheduled no less than ten (10) days after the next regularly scheduled Doddridge County Commission meeting.
- I understand that all decisions of the Doddridge County Appeals Board shall be final.
- I understand issuance of a Floodplain Permit authorizes me to proceed with construction as proposed. A Certificate of Compliance is required upon substantial completion of the project.
- in signing this application, the primary developer hereby grants the Doddridge County Floodplain Manager or designee the right to enter onto the above—described location to inspect the development work proposed, in progress, and/or completed.
- I understand that if I do not follow exactly the site—plan submitted and approved by this permit that a "Stop Work" order may be issued by the Wirt County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is

Applicant Signature: Date: 7-6-17

Applicant Printed Name: Shawn Posey - SVP MVP Engineering and Construction

WV Flood Map



Disclaimer:

Low: -7.71759

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

Watershed (HUC8): Little Musringum-Middle Island (5030

Advisory Flood Height: N/A Water Depth:

Elevation:

About 945 ft

Location (long, lat):

(80.553400 W,39.201145 N)

Location (UTM 17N): (538562, 4339192)

Contacts:

Doddridge

CRS Information:

N/A

Flood Profile: HEC-RAS Model:

54017 010 N/A

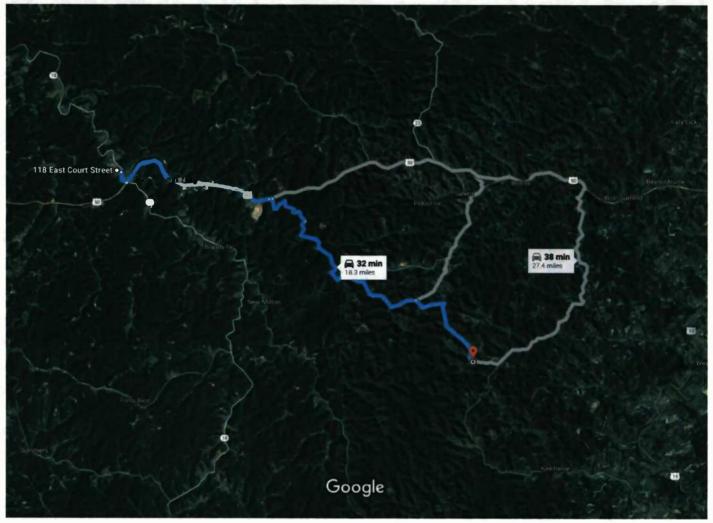
Parcel Number:

No Parcel

Google Maps

118 E Ct St, West Union, WV 26456 to 39.201285, -80.553387

Drive 18.3 miles, 32 min



Imagery ©2017 Google, Map data ©2017 Google

118 E Ct St

West Union, WV 26456

Take Railroad St to WV-18 S

Iake	: Nai	1 min (0.2 mi)
t	1.	Head northeast on Cross St toward Court St
		52 ft
L	2.	Turn right onto Railroad St
		0.2 mi
4	3.	Turn left toward WV-18 S
		279 ft

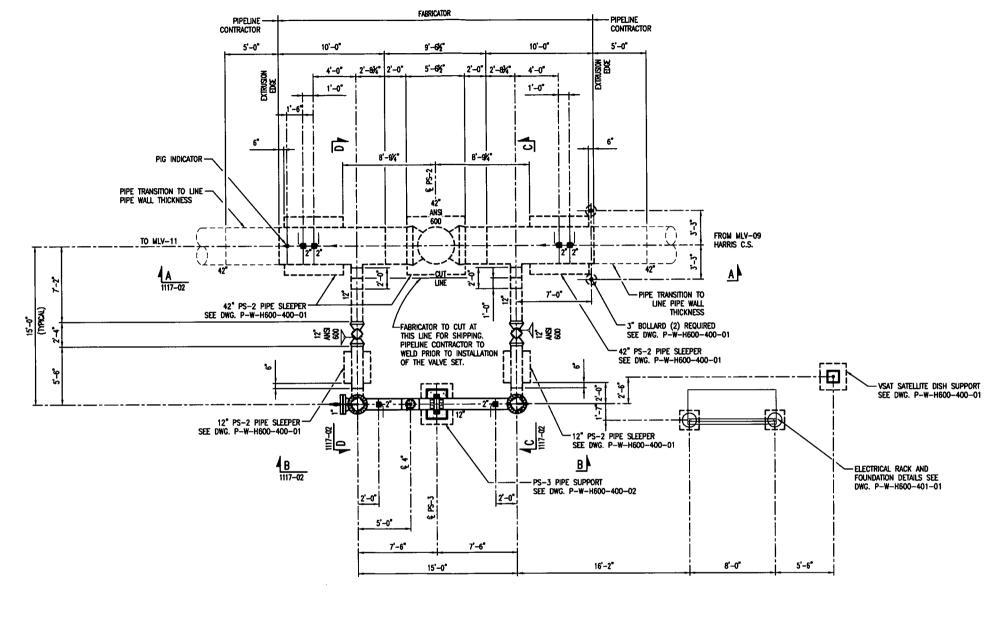
Take US-50 E, Co Rte 15 and Big Isaac to Meathouse Fork in Oak

31 min (18.1 mi)

•	4.	Turn right onto WV-18 S	
4	5.	Turn left onto US-50 E	0.5 mi
Ļ	6.	Turn right at Co Rte 50/35	· 5.6 mi
t	7.	Continue onto Blacklick Rd	0.1 mi
r	8.	Turn right onto Co Rte 15/Blacklick Rd/Sherwood-Greenbrier Rd Continue to follow Co Rte 15	2.1 mi
L	9.	Turn right onto Big Isaac	6.3 mi
t	10.	Big Isaac turns left and becomes Meathouse Fork Destination will be on the right	3.4 mi
			436 ft

39.201285, -80.553387

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



DESIGN & TEST DATA

DESIGN PRESSURE 1480 PSIG AT 120°F (0.5 DESIGN FACTOR).

MAXIMUM HOOP STRESS LEVEL AT 1480 PSIG 50 % SMYS. BASED ON 42°, 0.888° WT. X-70 PIPE ...

MADP OF 1480 PSIG AT 120°F IS LIMITED BY ANSI 600 COMPONENTS. 42° PIPE, 42° FITTINGS.

MINIMUM TEST PRESSURE 2220 PSIG. MAXIMUM TEST PRESSURE 2245 PSIG.

TEST LIMITED BY ANSI 600 COMPONENTS TEST PERIOD 8 HOURS.

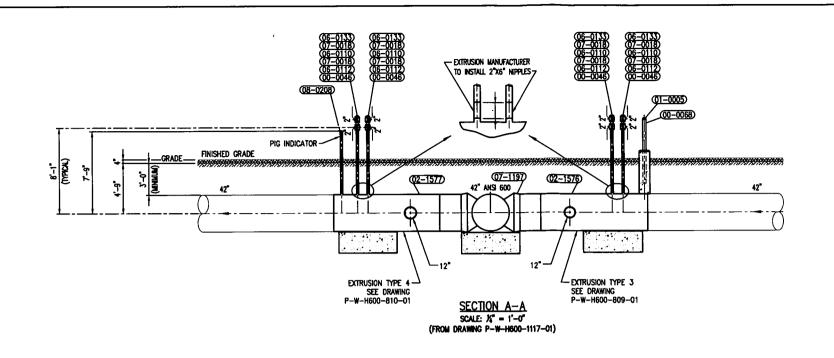
TEST MEDIUM WATER SERVICE NATURAL GAS

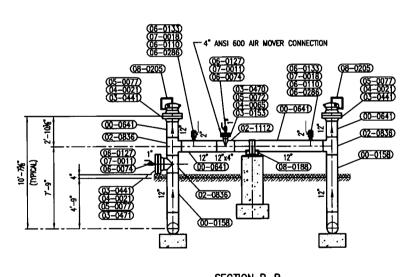
NONDESTRUCTIVE INSPECTION REQUIREMENTS 100% X-RAY, MAG, PARTICLE FILLET WELDS.

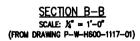
PLAN

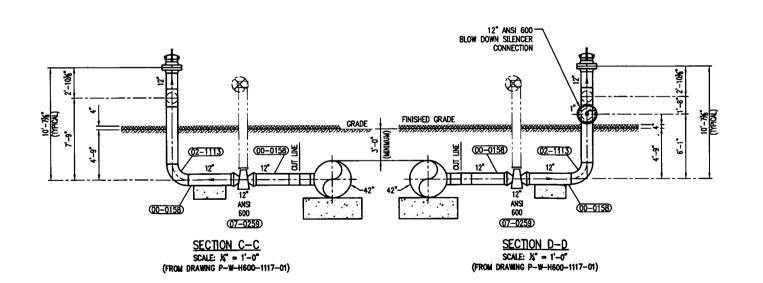
WEBSTER COUNTY, WV

REVISION ISSUED FOR BID TO THE BEST OF MY KNOWLEDGE, ALL COMPONENTS OF THIS DRAWING ARE BY CHK APPO NO. DATE
JDM KOS RLM ... BY CHK APPO REFERENCE DRAWINGS DESIGNED IN ACCORDANCE WITH APPLICABLE GUIDELINES AND SPECIFICATIONS Mountain Valley P-W-H600-400-01 PS-2 PIPE SLEEPER AND FOUNDATION DETAILS 42" 1480 PSIG ANSI 600 4/8/2016 DATE PS-3 AND PS-4 PIPE SUPPORT DETAILS MLV-10 VALVE SETTING INSTALLATION PLAN MLV-10 VALVE SETTING - PLOT PLAN P-W-H600-1117-02 MLV-10 VALVE SETTING INSTALLATION - SECTIONS IDENTIFICATION SERIES SHEET REVISION P-W-H600-1117-03 MLV-10 VALVE SETTING INSTALLATION - BOM NOTE: ANY CHANGES TO THE DESIGN SHOWN ON THIS DRAWING MUST BE APPROVED BY THE DESIGN ENGINEER. PW 1117 01 P9 H600 File Path: C:\Vault Working\3D\MVP\H-600\H-600 Bid Package\Drawing Files\Design Files\Mechanica\P-W-H600-1117-01.dwg





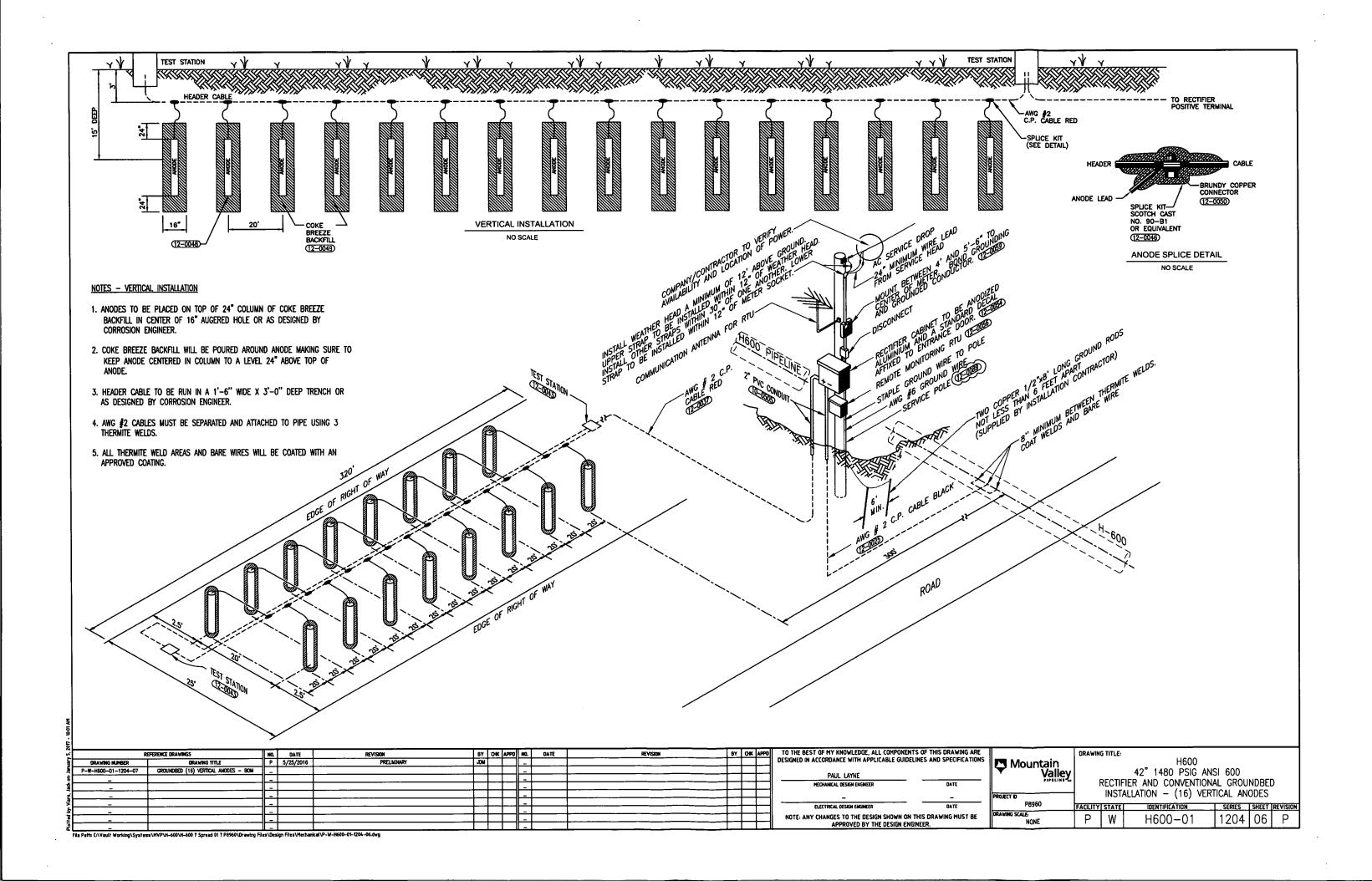


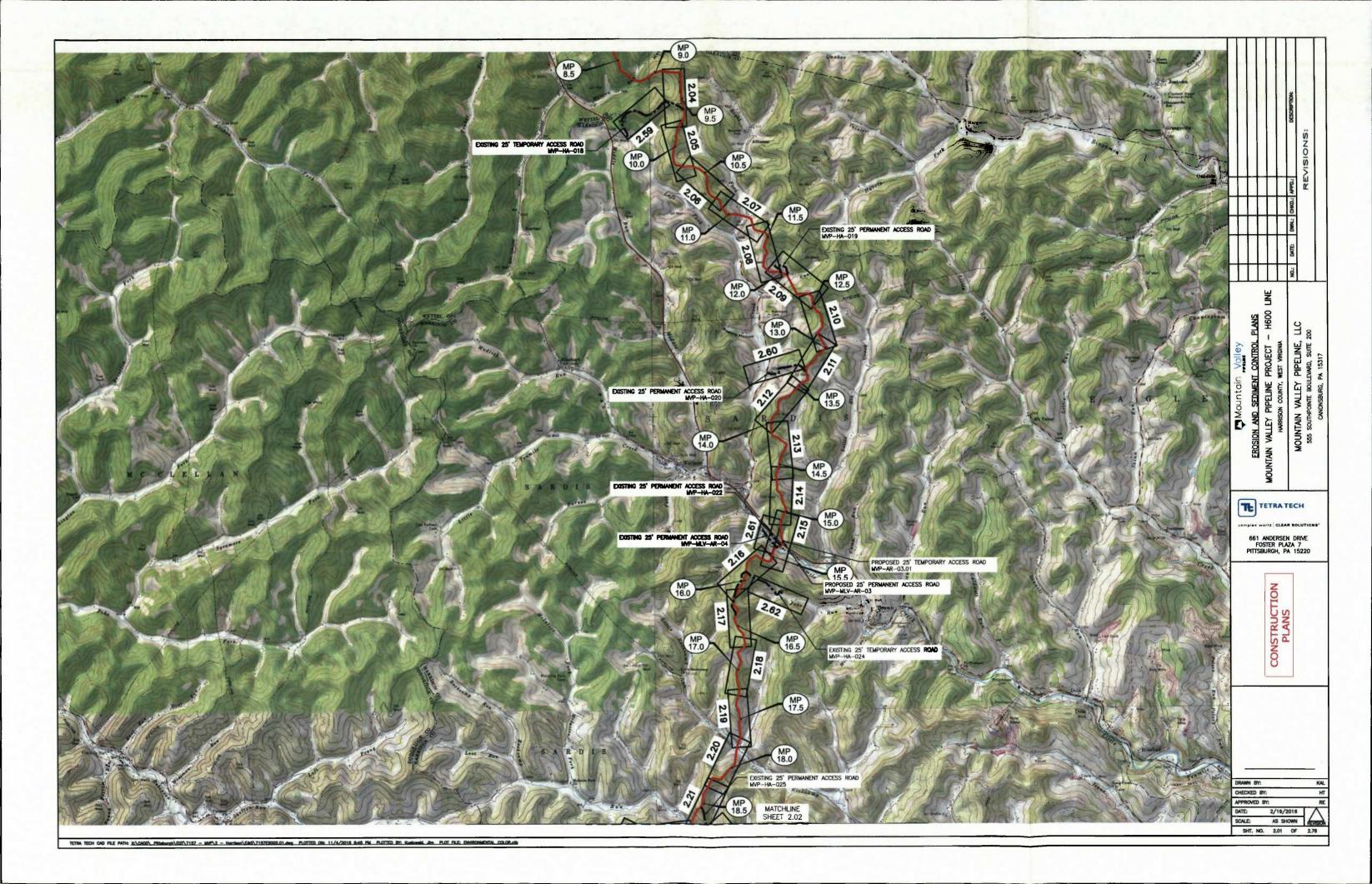


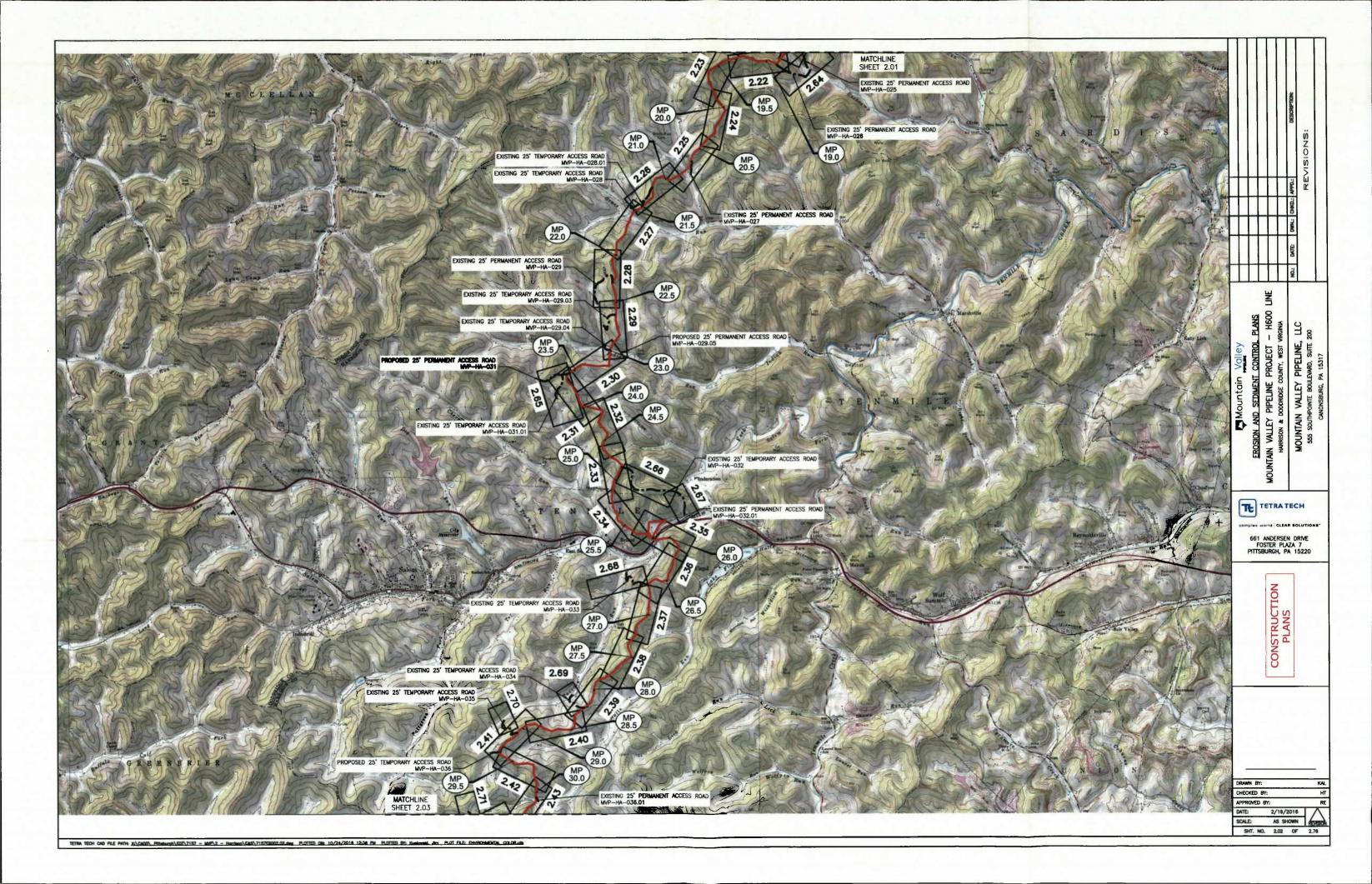
WEBSTER COUNTY, WV

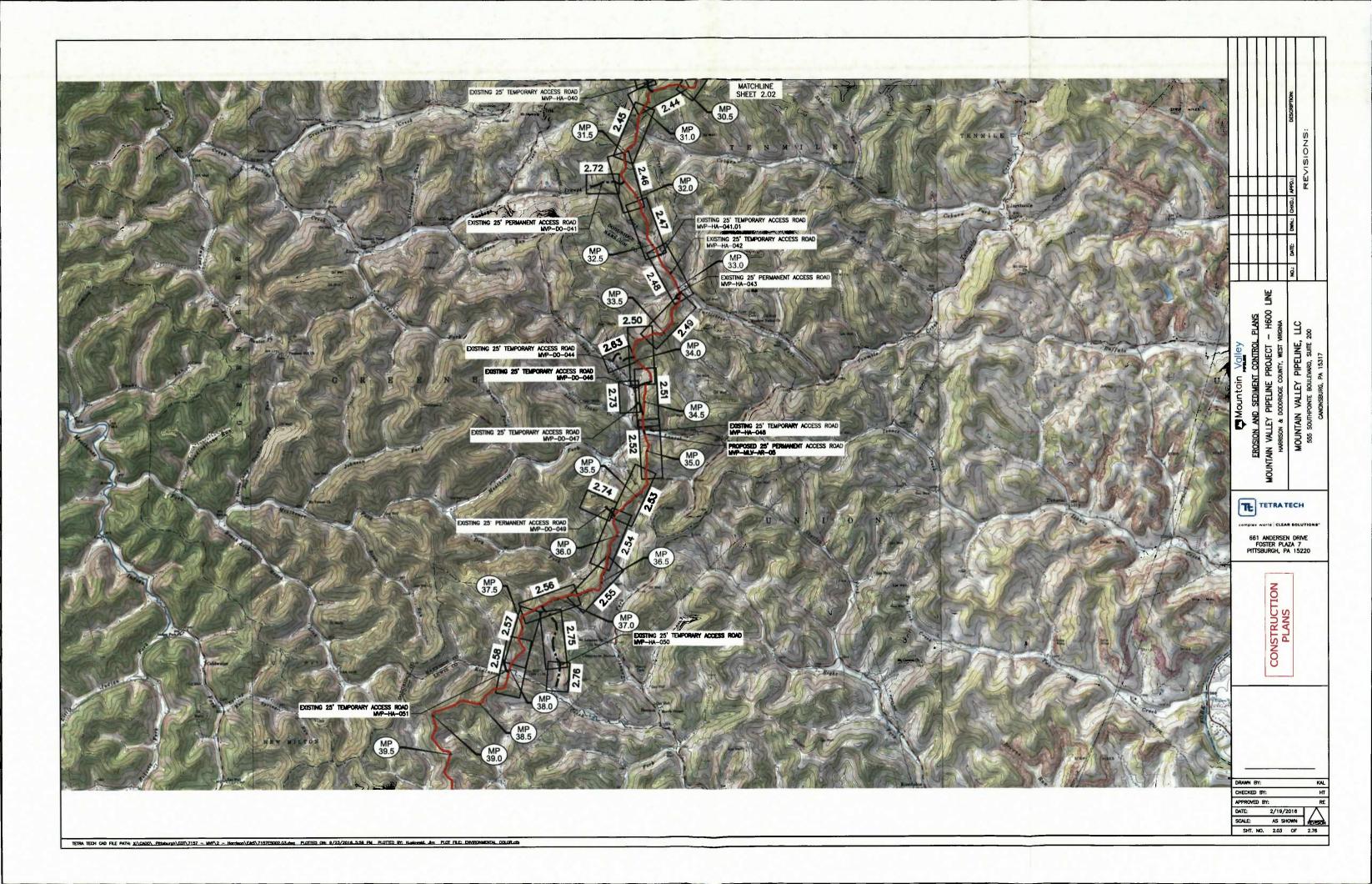
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GRAWING NUMBER	DRAWING TITLE	P9	04/08/2016	ISSUED FOR BID	'n	M KOS	RUM _				DESIGNED IN ACCORDANCE WITH APPLICABLE GUIDELINES AND SPECIFICATIONS Mountain H600
P-W-H600111701	MLV-10 INSTALLATION - PLAN						_ _				4/8/2016 Valley 42" 1480 PSIG ANSI 600
P-W-H600-1117-03	WLV-10 INSTALLATION - BILL OF MATERIALS					\bot	— -				MLV-10 VALVE SETTING INSTALLATION
P-W-H600-809-01	VALVE SET EXTRUSION TYPE 3						-				
P-W-H600-810-01	VALVE SET EXTRUSION TYPE 4						-	-			UNALI - PROJECT D SECTIONS
2						\bot	—⊩	-			DATE FACILITY STATE IDENTIFICATION SERIES SHEET ITEM
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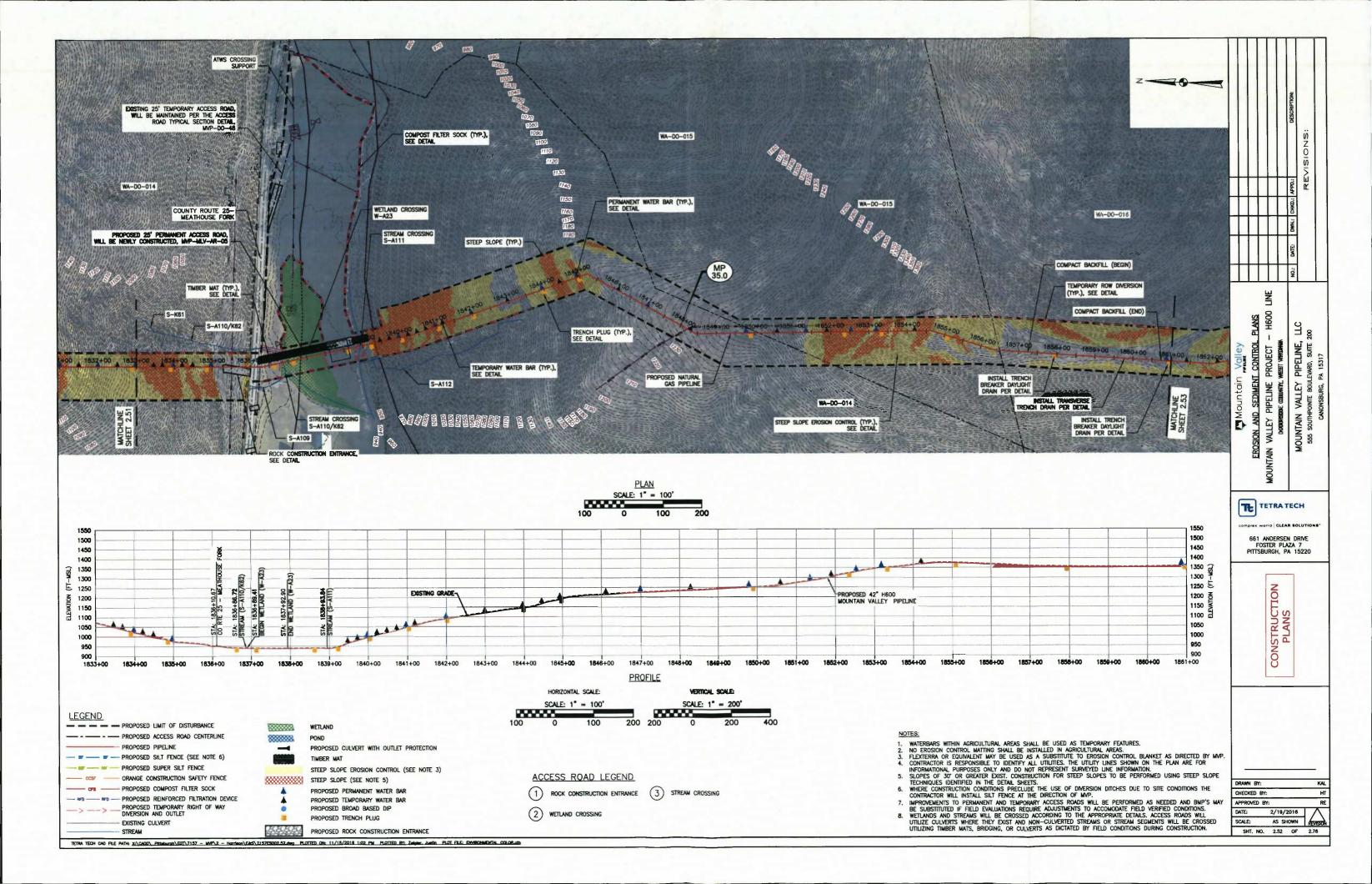
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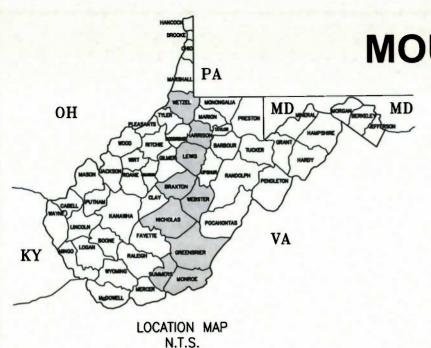








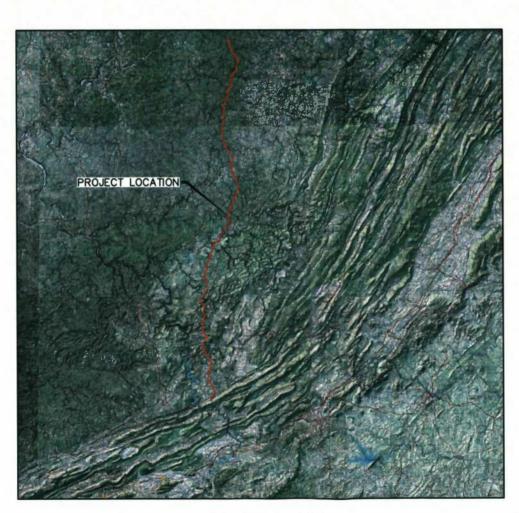




MOUNTAIN VALLEY PIPELINE, LLC

WVDEP GENERAL WATER POLLUTION **CONTROL PERMIT EROSION & SEDIMENT CONTROL PLAN**

MVP PIPELINE PROJECT WETZEL COUNTY TO MONROE COUNTY **NOVEMBER 2016**



LOCATION MAP MVP PIPELINE PROJECT
WETZEL COUNTY, WEST VIRGINIA TO MONROE COUNTY, WEST VIRGINIA

	DRAWING INDEX	
SHEET No.	DRAWING TITLE	
HE NOTE AND LONG TO SERVICE	GENERAL SET	
ES-0.00	COVER SHEET	
ES-0.01 TO ES-0.1	9 EROSION AND SEDIMENT CONTROL DETAILS	
ES-0.20 TO ES-0.2	21 GENERAL NOTES AND LEGEND	
	WETZEL COUNTY	
ES-1.01	KEY PLAN	
ES-1.02 TO ES-1.3	3 EROSION & SEDIMENT CONTROL PLANS	
	HARRISON COUNTY	
ES-2.01 TO ES-2.0		
ES-2.04 TO ES-2.7	76 EROSION & SEDIMENT CONTROL PLANS	
	LEWIS COUNTY	
ES-3.01 TO ES-3.0		
ES-3.04 TO ES-3.7	79 EROSION & SEDIMENT CONTROL PLANS	
	BRAXTON COUNTY	
ES-4.01 TO ES-4.0		
ES-4.03 TO ES-4.5	50 EROSION & SEDIMENT CONTROL PLANS	
	WEBSTER COUNTY	
ES-5.01 TO ES-5.0		
ES-5.05 TO ES-5.9	9 EROSION & SEDIMENT CONTROL PLANS	
	NICHOLAS COUNTY	
ES-6.01 TO ES-6.0		
ES-6.04 10 ES-6.8	B EROSION & SEDIMENT CONTROL PLANS	
	GREENBRIER COUNTY	
ES-7.01	KEY PLAN	
ES-7.02 TO ES-7.0	33 EROSION & SEDIMENT CONTROL PLANS SUMMERS COUNTY	
ES-8.01	KEY PLAN	
	51 EROSION & SEDIMENT CONTROL PLANS	
E3-0.02 10 E3-0.	MONROE COUNTY	
ES-9.01	KEY PLAN	
	59 EROSION & SEDIMENT CONTROL PLANS	
E3-9.02 TO E3-9.	PIPE YARDS	-
S-10.01 TO ES-10.		
	24 PIPE YARD PLANS	
	LANDSLIDE MITIGATION	
ES-11.01	LANDSLIDE MITIGATION LEGEND	
	19 LANDSLIDE MITIGATION PLANS	



THREE DAYS BEFORE YOU DIG

CALL WV ONE CALL SYSTEM TOLL FREE 811 OR 1-800-245-4848

CONTRACTOR IS RESPONSIBLE TO **IDENTIFY ALL UTILITIES. THE UTILITY** LINES SHOWN ON THE PLAN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT SURVEYED LINE INFORMATION.

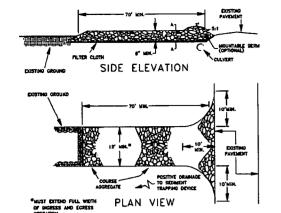


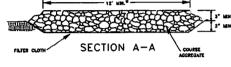


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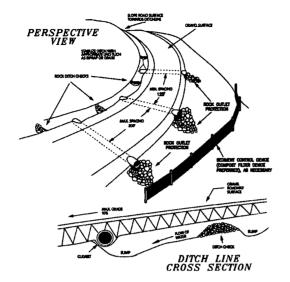
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STONE CONSTRUCTION ENTRANCE

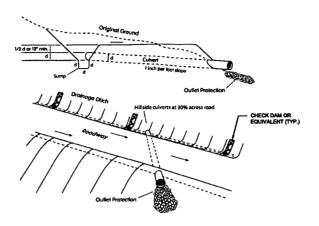




STONE CONSTRUCTION ENTRANCE
TAKEN FROM 2008 MANUAL



SEDIMENT AND EROSION CONTROL FOR ACCESS ROADS
TAKEN FROM 2012 MANUAL



ROCK CHECK DAMS, FILTER SOCK, OR EQUIVALENT WILL BE INSTALLED UPSTREAM OF THE CULVERT INLETS

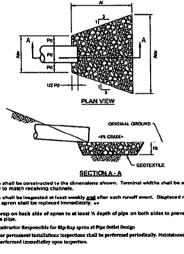
DITCH RELIEF CULVERT
TAKEN FROM 2012 MANUAL

Drainage area (acres)	Table 3.35.1 Average slope of watershed							
	1%	4%	8%	16%				
		Culvert	diameter (inches)					
1 - 25	24	24	30	30				
26 - 50	24	30	36	36				
51 100	30	36	42	48				
101-150	30	42	48	48				
151 - 200	36	42	48	54				
200 - 250	42	48	60	60				
251 - 300	42	48	60	60				
301 - 350	42	48_	60	60				
351 - 400	42	54	60	60				
401 - 450	42	54	60	72				
451 - 500	42	54	60	72				
501 - 550	48	60	60	72				
551 - 600	48	60	60	72				
601 - 640	48	60	72	72				

NOTE: MINIMUM CULVERT SIZE SHALL BE 12 INCHES. CULVERT SHALL BE INSTALLED AS INDICATED ON THE DETAIL.

REFERENCE: WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF WATER AND WASTE MANAGEMENT, EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, 2006.

CULVERT SIZING CHART
TAKEN FROM 2006 MANUAL



OUTLET PROTECTION TAKEN FROM 2012 MANUAL TOP SOIL TO BE REMOVED AND FILL SLOPE TO BE KEYED INTO EXISTING SOIL.

- NOTE:

 1. INSLOPE WITH DITCH SECTION FOR USE ON STEEP SLOPE AND AREAS WITH POOR SOILS.

 2. EROSION CONTROL MATTING TO BE INSTALLED ON CUT AND FILL SLOPES STEEPER THAN 3H:1V.

 3. ALL DISTURBED AREAS WILL BE IMMEDIATELY SEEDED AND MULCHED.

 4. INSTALL DITCH RELIEF CULVERTS AT LOW SPOTS AND APPROPRIATE LOCATIONS.

 5. EXISTING MAINTAINED ROADS WILL HAVE STONE APPLIED AND APPROPRIATE SMOOTHING IF

- RUTTING OCCURS.

 ROADS TO BE GRADED AND MAINTAINED WILL BE WIDENED, GRADED AND/OR STONED AS NECESSARY WITHIN THE LOD TO MAINTAIN SAFE PASSAGE AND RESOURCE PROTECTION.

ACCESS ROAD TYPICAL SECTION
DEVELOPED FROM 2006 MANUAL

CHECK DAM SPACING ALONG PROFILE **CROSS SECTION VIEW**

ROCK CHECK CHART

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CHECKED BY:		
APPROVED BY	•	
DATE:	2/19/2016	$T_{\mathcal{N}}$
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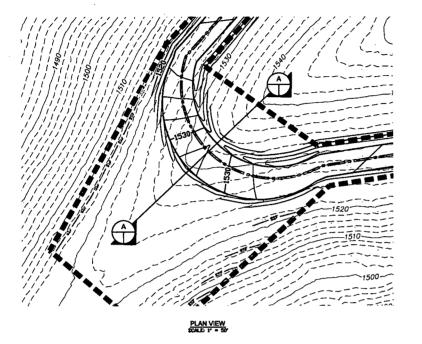
PIPELINE PROJECT -

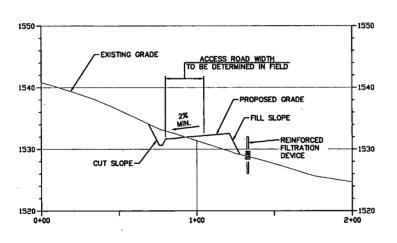
TE TETRA TECH

661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220

CONSTRUCTION

对 Mountain

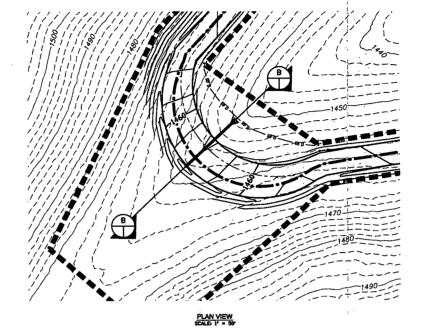


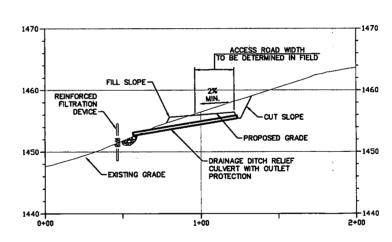


PROFILE VIEW A-A

ATWS VEHICLE TURNING RADIUS

NOSE DETAIL
SCALE AS SHOWN





PROFILE VIEW B-B

ATWS VEHICLE TURNING RADIUS

VALLEY DETAIL

SCALE AS SHOWN

ı		
DRAWN BY:		KAL
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		RE
APPROVED DATE:		T X
	2/19/2016	$4/\Delta$
SCALE:	AS SHOWN	REVISION

TE TETRATECH

661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220

> CONSTRUCTION PLANS

NOTES:

1. ELEVATIONS ARE FOR ILLUSTRATIVE PURPOSES AND ARE NOT SPECIFIC TO EACH SITE. ACTUAL ELEVATIONS WILL BE DETERMINED IN THE FIELD.
2. CLIT SLOPES ARE TO BE SEEDED AND MULCHED IMMEDIATELY.

TETRA TECH CAO FILE PATH: X1CASSN PHItaburgh/ESSY,7157 - MASYO - Communit/ESSY,715755082 drug PLOTTED ON: 11/23/2018 10:25 AM PLOTTED SIX Richardsugh, Grog PLOT FILE DAMRONIDATAL COLORAdo

REQUIR	ED SPACING AN	D MATERIALS FOR TRENCH BREAKERS
TRENCH SLOPE	SPACING	BREAKER MATERIAL
(%)	(FEET)	
< THAN 5	•	EARTHEN FILL, SAND, OR CONCRETE FILLED SACK
5 TO 15	500	EARTHEN FILL, SAND, OR CONCRETE FILLED SACK
15 TO 25	300	EARTHEN FILL, SAND, OR CONCRETE FILLED SACK
25 TO 35	200	EARTHEN FILL, SAND, OR CONCRETE FILLED SACK
35 TO 100	100	EARTHEN FILL, SAND, OR CONCRETE FILLED SACK
>THAN 100	50	CEMENT FILLED BAGS (WETTED)

*TRENCH BREAKERS ARE REQUIRED AT ALL STREAM AND WATERBODY CROSSINGS REGARDLESS OF TRENCH SLOPE. OTHERWISE NOT REQUIRED AT SLOPES < 5%.

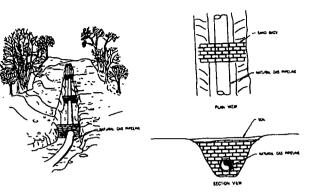
** SINGLE TRENCH BREAKERS WILL BE A MINIMUM WIDTH OF 24" AND DOUBLE TRENCH BREAKERS WILL BE A MINIMUM WIDTH OF 36".

*** FOR SUBSURFACE AND TRENCH BREAKER DRA SEE LANDSLIDE MITIGATION TYPICAL DETAILS.



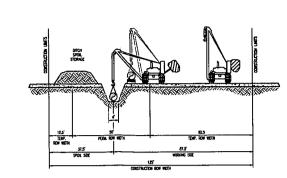


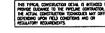
TRENCH BREAKER



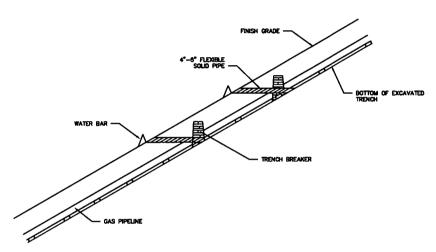


TRENCH PLUG



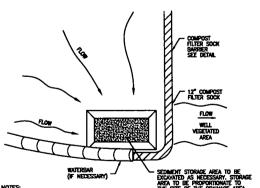


MAINLINE CONSTRUCTION
NON-PARALLEL CONSTRUCTION
NO TOP SOIL SEGREGATION
DEVELOPED FROM 2012 FIELD MANUAL



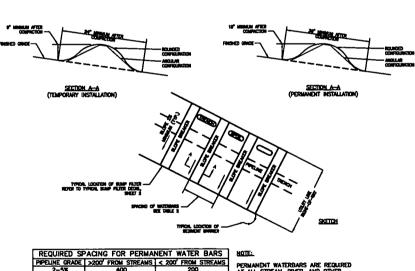
TRENCH DETAIL

 $4^{\circ}\text{--}6^{\circ}$ flexible soud pipe to be installed at trench breakers on steep slopes to drain subsurface water into water bars.



- 1. SUMP FILTER MAY BE USED IN CONJUNCTION WITH WATERBAR (AS DIRECTED BY OWNER REPRESENTATIVE).
- 2. SUMP FILTER SHALL BE LOCATED ENTIRELY WITHIN PROPOSED RIGHT OF WAY.
- BMP SHOULD BE CHECKED WEEKLY AND AFTER EACH STORMWATER EVENT FOR SEDIMENT ACCUMULATION, PROPER OPERATION, AND COMPOST FILTER SOCK INTEGRITY.
- 4. ADDITIONAL COMPOST FILTER SOCKS MAY BE NECESSARY BEYOND WHAT IS SHOWN ON DETAIL TO MEET INTENDED BMP REQUIREMENTS.

TYPICAL SUMP FILTER



unce of waterbars shall be provided until roadway, skidtrail, or right—of—way has achieved permanent stabilization WATERBARS ON RETIRED ROADWAYS, SKIDTRAILS, AND RIGHT-OF-WAYS SHALL BE LEFT IN PLACE AFTER PERMANENT STABILIZATION HAS BEEN ACHIEVED

WATERBAR INSTALLATION DETAIL

F MORELLIN A COMPAC CHED CHACE —				SE MINISTER NEED CONFIDENCE CONFI
	SECTION (TEMPORARY II			SECTION A=A (PERMANENT INSTALLATION)
			TYPICAL LOCKTON OF	SETTER
		ACING FOR PERMA		NOTE:
			< 200' FROM STREAMS	PERMANENT WATERBARS ARE REQUIRED
	2-5%	400	200	AT ALL STREAM, RIVER, AND OTHER
	8-12%	300	150	WATER-BODY CROSSINGS AS WELL AS

	_
M:	
BY:	
DT:	

AS SHOWN SHT. NO. 0.03 OF 0.21

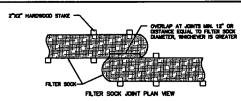
SCALE:

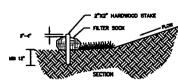
TETRA TECH

661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220

CONSTRUCTION PLANS

TETRA TECH CAD FILE PATH: X-1/CADDD, Prindsurgh, EDITY, 1157 - MAYA G - General, EAST, 71.8755003-brog PLOTTED, ON: 11/23/2018 19:23 AM (PLOTTED, DN: Richardough, Once PLOT, FILE DAYROMENTAL COLURS of





MOTES

- I. MATERIALS COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN, AND INSECT FRZE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOMC TO PLANT GROWIN. THEY SHALL BE DETRIED FROM A WELL—DECOMPOSED SOURCE OF ORGAND FROM A CONSIST OF PARTICLES RANGING FROM 3/8 INCH TO 2 MACHED.
- 2. FILTER SOCKS SHALL BE 3 TO 5 MIL CONTINUOUS TUBULAR HDPE | INCHES KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

INSTALLATION

- 3. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL. TO THE BASE OF THE SLOPE OF OTHER AFFECTED AREA. ON SLOPES APPROACHING 21, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS REEDED MID—SLOPE.
- 4. STAKES SHALL BE INSTALLED EVERY 8 FT FOR THE ENTI-LENGTH OF THE FILTER SOCK AND WITHIN 1 FT OF EACH END. STAKES MAY GO THROUGH THE CENTER OF THE BUTTER SOME OF COURSEST MAY BUT THE THE

- 8. MANUFACTURER'S SPECIFICATIONS ARE TO BE FOLLOWED WHEN JOINING FILTER SOCK SEGMENTS. PLAN VIEW ABOVE IS TO BE CONSIDERED A MINIMUM.
- 8. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VECETATION.

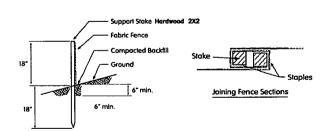
MAINTENANCE:

- 7. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/2 OF THE EXPOSED HEIGHT OF THE PRACTICE.
- N. WHERE THE FILTER SOCK DETERIORATES OR FALLS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- REMOVAL FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT DESTRUCT SEEDING.

Slope Percent	Maxim um Slope Length for Com post Filter Sock in Feet Nate: Table developed from Filtrax Sedment Control product cut sheet by Filtrax International, LLC As a general reference. Rafer to manufactures a specifications for brand of compost filter sock used.									
	8 In	t2 in	18 in	24 In	32 in					
2 (or less)	600	750	1000	1300	1650					
5	400	500	550	650	750					
10	200	250	300	400	500					
15	140	170	200	325	450					
20	100	125	140	260	400					
25	60	100	110	200	275					
30	60	75	90	130	200					
35	60	75	80	115	150					
40	60	75	80	100	125					
45	40	50	60	80	100					
	40				74					

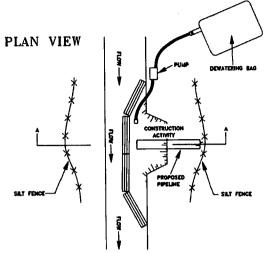
MAXIMUM SLOPE LENGTH ABOVE COMPOST FILTER SOCK AND RECOMMENDED DIAMETER

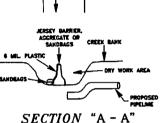
COMPOST FILTER SOCK



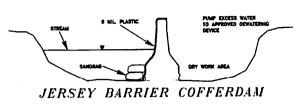
SILT FENCE

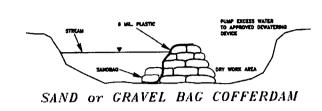
COFFERDAM CROSSING

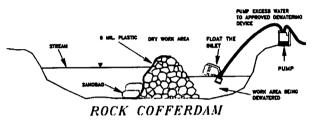




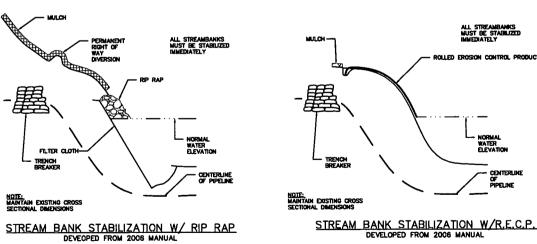
COFFERDAMS

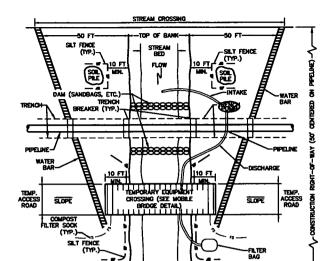






COFFERDAM STREAM CROSSING DEVELOPED FROM 2006 MANUAL



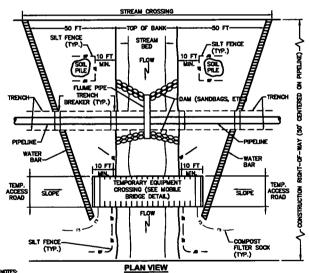


DITES

PLAN VIEW

I. IRSTALL COMPOST FILTER SOCKS, TRENCH BREAKERS, PUMP, ENERGY DISSIPATER, AND DAMS
BEFORE TREMCHING STREAM.
PUMP MUST BE OF SUFFICIENT CAPACITY TO CONVEY NORMAL AND/OR EXISTING STREAM FLOW
OVER TRENCH. A BACK-UP PUMP OF EDUAL CAPACITY MIST BE AVAILABLE ON-SITE DURING
CONSTRUCTION OF THE PEPUME CONSINA.
CONSTRUCTION OF THE PEPUME CONSINA.
INSTALL WATER BARS AT APPROACHES TO STREAM CROSSING AND COMPOST FILTER SOCKS, SLT
FENCE, OR SUPER SLT FENCE (AS NORCATED ON PLAN SHEETS).
3. MAINTAIN SURFACE OF TEMPORATY EQUIPMENT CROSSING TO PREVENT SOL DISCHARGES TO
STREAM.
3. APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE
ORIGINAL GRADUE.

TYPICAL STREAM CROSSING PUMP DIVERSION



MOTES.

1. RESTALL COMPOST FILTER SOCIS, TREDICH PLUSS, PUMP, AND DAMS BEFORE TREDICHING STREAM.

2. FOR FILME PIPE AND ROCK FILL CROSSINGS, BETALL FLUME PIPE ON EXISTING STREAMBED. MORE THAN 1 FILME PIPE MAY BE REDED TO SHAN STREAM CHANNEL.

3. PLACE SOLI PILES A MINIMAN OF 10 FEET FROM TOP OF BANK.

4. RESTALL MATTER BARS AT APPROACHES TO STREAM COASSING AND COMPOST FILTER SOCKS, SILT FENCE, OR SUPER SLIT FENCE (AS MODISTED ON PLAN SHEETS).

AND STORM BANKS AND DRINKS OFE PILD OF WINTER RAPS.

MAINTAIN SURFACE OF TEMPORARY EQUIPMENT CROSSING TO PREVENT SOIL DISCHARGES STREAM.

APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE

FLUME PIPE DIVERSION

DRAWN BY: KAL
CHECKED BY: HT
APPROVED BY: RE
DATE: 2/19/2018
SCALE: AS SHOWN REVISION
SHT. NO. 0.04 OF 0.21

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DETAILS - H600 rest virginia

PIPELINE PROJECT -

TETRA TECH

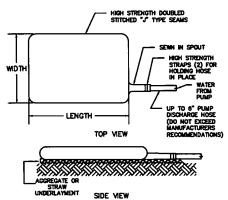
661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220

CONSTRUCTION PLANS

Mountain AND SEDIMENT C

REFFRENCES: MEST VIRGINA ENOSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, DATED 2008 MEST VIRGINA ENOSION AND SEDIMENT CONTROL FIELD MANUAL, DRAFT DATED 7-28-2010.

TETRA TECH CAO FILE PATH: X1CHOON, PRINTINGS/COT/7157 - MPS/0 - General/EAS/715765004-deg PLOTED ON: 11/23/2018 1028 AM PLOTED SY: Richbough, Grog. PLOT. FLE. DAYSONBORGA. COLORado



NOTES

1. THE BAO SHALL BE INSTALLED ON A VERY SLIGHT SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAO WITHOUT CREATING MORE EROSION.

- APPROVED LANGILL

 SELIMENT OR REMOVED AND DISPOSED OF OFFSIE IN AN

 B. EACH STANDARD DEWATERING DEVICE SHALL HAVE A FILL SPOUT LARGE ENOUGH TO
 ACCOMMODATE THE DISCHARGE HOSE. USE TWO STAINLESS STELL STRAPS TO SECURE THE
 HOSE AND PREVENT PUMPED WATER FROM SECURING WITHOUT BERING FILTERS.

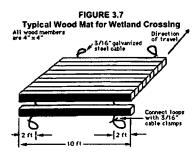
 9. THE DEWATERING DEVICE SHALL BE A NONWOVEN BAQ, WHICH IS SEWIN WITH A DOUBLE NEEDLE
 STITTCHING USING A HOIS STENDARD THREAD.

 10. THE DEWATERING DEVICE SEAMS SHALL HAVE AN AVERAGE WIDE WITH STRENGTH PER ASTIM D
 4884 OF 100 LB/N.

 11. THE GEOTEXTILE FABRIC SHALL BE A NONWOVEN FABRIC WITH A STRENGTH PER ASTIM D

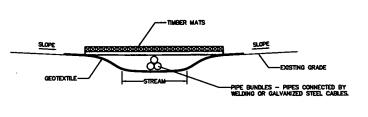
PROPERTIES	TEST METHOD	ENGLISH	METRIC
GRAÐ TENSILÉ	ASTM D-4632	250 LBS.	113 KG
PUNCTURE	ASTM D-4833	165 LBS.	75 KG
FLOW RATE	ASTM D-4491	70 GAL/MIN/SQ FT	25 LITERS/MIN/ SQ METER
PERMITTY	ASTM D-4491	1.3 SEC1	1.3 SEC1
MULLEN BURST	ASTM D-3785	550 LBS./SQINCH	3.79 Mpa
UV RESISTANT	ASTM D-4355	70%	70%
AOS % RETAINED	ASTM D-4751	100%	100%

DEWATERING BAG



University of Minnesota FS 07009 A geotextile underlayment shall be used under the wood mat.

TIMBER MAT/WETLAND CROSSING



TIMBER MAT AND PIPE BUNDLE TEMPORARY STREAM CROSSING

PLAN VIEW

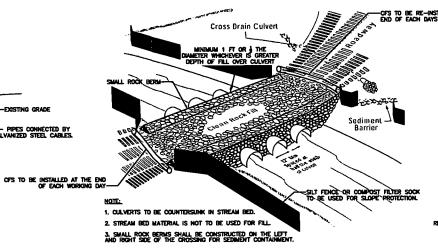
CROSS SECTION - MOBILE BRIDGE

BE ATTACHED TO THE UPPER DECK. GEOTEXTILE TO ROUND SIDEBOARDS PRIOR TO FASTENING.

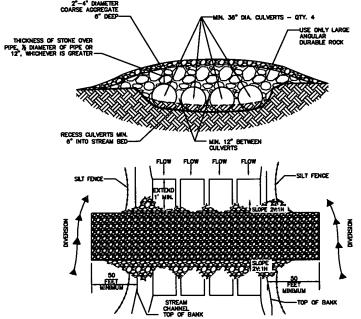
TEMPORARY BRIDGE STREAM CROSSING DETAIL

MOBILE BRIDGE

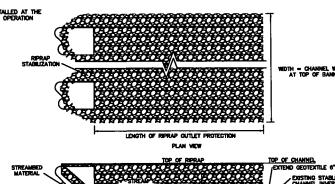
10 FT



TYPICAL E&S CONTROL FOR STREAM CROSSINGS TAKEN FROM 2012 MANUAL



CULVERT CROSSING
DEVELOPED FROM 2006 MANUAL



PROFILE

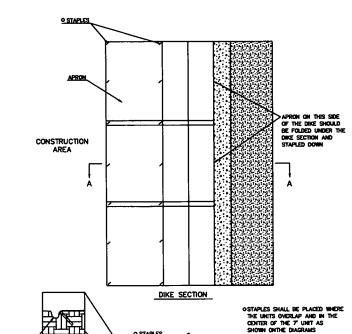
- NOTES:

 1. SUBGRADE FOR THE FILTER OR BEDDING AND GROUP SHALL BE PREPARED TO THE RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES AS SHOU THE PLAN. THE SUBGRADE SHALL BE CLEARED OF ALL TREES, STUMPS, ROO LOOSE ROCK, OR OTHER MATERIALS

- GRAVEL BEDDING SHALL BE AASHTO NO. 87'S OR 57'S UNLESS SHOWN DIFFERENTLY ON THE DRAWMING

- CONSTRUCTION SHALL BE SEQUENCED SO THAT OUTLET PROTECTION IS PLACED AND FUNCTIONAL WHEN THE STORM DRAIN, CULVERT, OR OPEN CHANNEL ABOVE IT BECOMES OPERATIONAL.

STREAM CULVERT CROSSING INLET/OUTLET PROTECTION



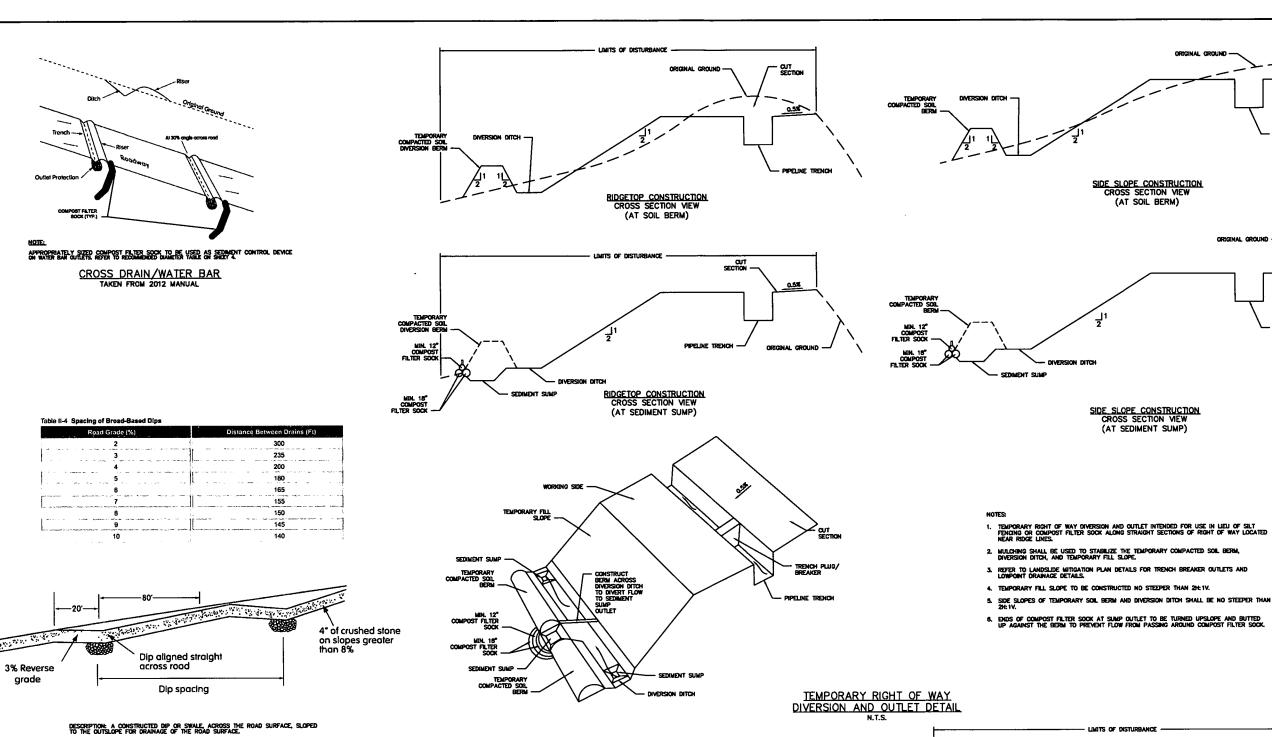
DETAIL A-A

TEMPORARY SILT DIKE INSTALLATION FOR CONTINUOUS BARRIER SOURCE ACF ENVIRONMENTAL

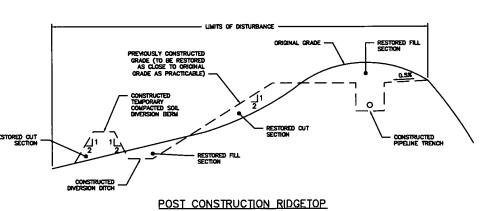
¥ Mountain 🕁 WALLEY VALLEY I TE TETRATECH 661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220 CONSTRUCTION PLANS

DRAWN BY: CHECKED BY: DATE: 2/19/2016
SCALE: AS SHOWN REVISION SHT. NO. 0.05 OF 0.21

TETRA TEDA CAD FILE PATRE X-\CANDON, PRODUCED TO THE DESCRIPTION - MAPIN - CONSTRUCT - MAPIN - CONSTRUCT COLORADO CON PLOT FILE PARTICIPATION COLORADO



BROAD BASED DIP DETAIL N.T.S.



POST CONSTRUCTION RIDGETOP RECLAMATION DETAIL N.T.S.

POST CONSTRUCTION SIDE SLOPE RECLAMATION DETAIL.

CHECKED BY: APPROVED BY: APPROVED BY:

DATE: 2/19/2016

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VALLEY I

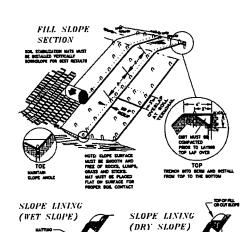
TE TETRA TECH

661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220

CONSTRUCTION PLANS

Mountain 🛡

TETRA TECH CAO FUE PATHS (1)-0400) Prinsburgh (EDT) 7187 - MAPA) - General (EAS) 718755008.dwg PLOTTED ON: 11/23/2018 10:28 AM PLOTTED DY: Richardough Group PLOT FUE: CHARGEMENTAL COLURS of







NOTES:

A BONDED FIBER MATRIX (BMF) IS AN EFFECTIVE METHOD OF STABILIZING STEEP SLOPES WHEN USED PROFERLY, BMF6 MAKE USE OF A CROSSLINCED HYDROCOLLOD TACKHER TO BOND THERMALLY PROCESSED WOOD FIBERS. APPLICATION RATES VARY ACCORDING TO SITE CONDITIONS, FOR SLOPES UP TO 3/E/IV THE BFM SHOULD BE APPLIED AT A RATE OF \$1,000 EAST SLOPES WAT NEED AS BILDED AS 4,000 EAST-CREED.

BFMs SHOULD ONLY BE USED WHEN NO RAIN IS FORECASTED FOR AT LEAST 48 HOURS FOLLOWING HE APPLICATION. THIS IS TO ALLOW THE TACRETER SUFFICIENT TIME TO CIRE PROPERTY, ONCE PROPERTY, APPLIED, A BFM IS TYPICALLY SOME EFFECTIVE IN PREVENTING ACCELERATED EROSION. BFMs SHOULD NOT BE APPLIED BETWEEN SEPTEMBER 30 AND APRIL 1.

A POLYMER STABILIZED FIBER MATRIX (PSFM) CAN ALSO BE AN EFFECTIVE METHOD OF STABILIZING STEEP SLOPES WHEN USED PROPERTY. PSFMS MAKE USE OF A LINEAR SOIL STRUCTURE, AND TACKFREE THAT WORRS DIRECTLY ON SOIL OT MAINTAIN SOIL STRUCTURE, MAINTAIN PORE SPACE CAPACITY AND FLOCOLLATE DISLODGED SEDIMENT THAT WILL SIGNIFICANTY REDUCE RUNOFF TURBIDITY, PROPERLY APPLIED, A PSFM MAY BE AS MUCH AS 99% EFFECTIVE

	Polymer		ed Fiber	Matrix A	Applicati	on Rates	
Maximum Rainfe	of 5 20"						
SLOPE	6.1	5:1	4:3	3:1	2:1	1,5:1	1:1
Sall Stabilizer (gals(ecre)	4	5	6	7	8	9	10
Fiber (lb/scre)	1,500	1,500	1,500	1,800	2,000	2,500	3,000
		m Reint Bite Win					
	SLOPE		£5:1	4:1	1:25	1	
	Soil Sta (gala/a		в	8	10		
	Fiber (thiscre)		2,000	2,500	3,000	1	

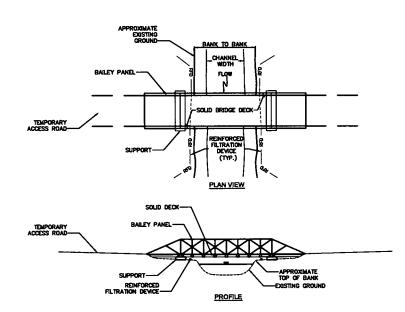
NOTES:

UNLIKE ROLLED BLANKETS, THERE IS NO NEED TO SMOOTH THE SLOPE PRIOR TO APPLICATION OF HYDRAULICALLY APPLIED BLANKETS, IN FACT SOME ROUSHENING OF THE SUFFACE, EITHER NATURAL OR MECHANICALLY INDUCED, IS PREFERBLE. HOWEVER, LARGE ROCKS, THOSE > 9 INCHES, AND EXISTING RILLS SHOULD BE CREMOVED PRIOR TO APPLICATION, TRADENIO OR GROCOVANG OF SLOPES SHOULD BE CONSIDERED TO SLOW WATER FLOWS DURING A STORM EVENT. SLOPE INTERRUPTION DEVICES SUCH AS STAIR STEP GRADING OR BENCHMOS SHOULD BE APPLIED PRIOR TO THE APPLICATION, MIXING AND APPLICATION RATES SHOULD FOLLOW MANUFACTURER'S RECOMMENDATIONS.

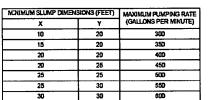
HYDRAULICALLY APPLIED BLANGETS ARE TYPICALLY APPLIED IN TWO STAGES. UNLESS SPECIFICALLY RECOMMENDED TO BE APPLIED IN ONE APPLICATION BY THE MANUFACTURER. THE SEED INSTITUE AND SOIL AMERIMENTS SHOULD BE APPLIED FIRST. IF THE SEED IS APPLIED AT THE SAME TIME AS THE HYDRAULICALLY APPLIED BLANKET, THE SOILE OF REPRESS MAY KEEP THE SEED FROM MANIONS DEPTICIENT CONTACT WITH THE SOIL TO CARMINATE, ATTHET THE SEED MINTURE OF APPLIED, THE STAM, FROM ON TRANS SHOWN SH

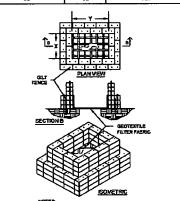
BONDED FIBER MATRIX

STEEP SLOPE EROSION CONTROL OPTIONS



MODULAR TEMPORARY BAILEY BRIDGE

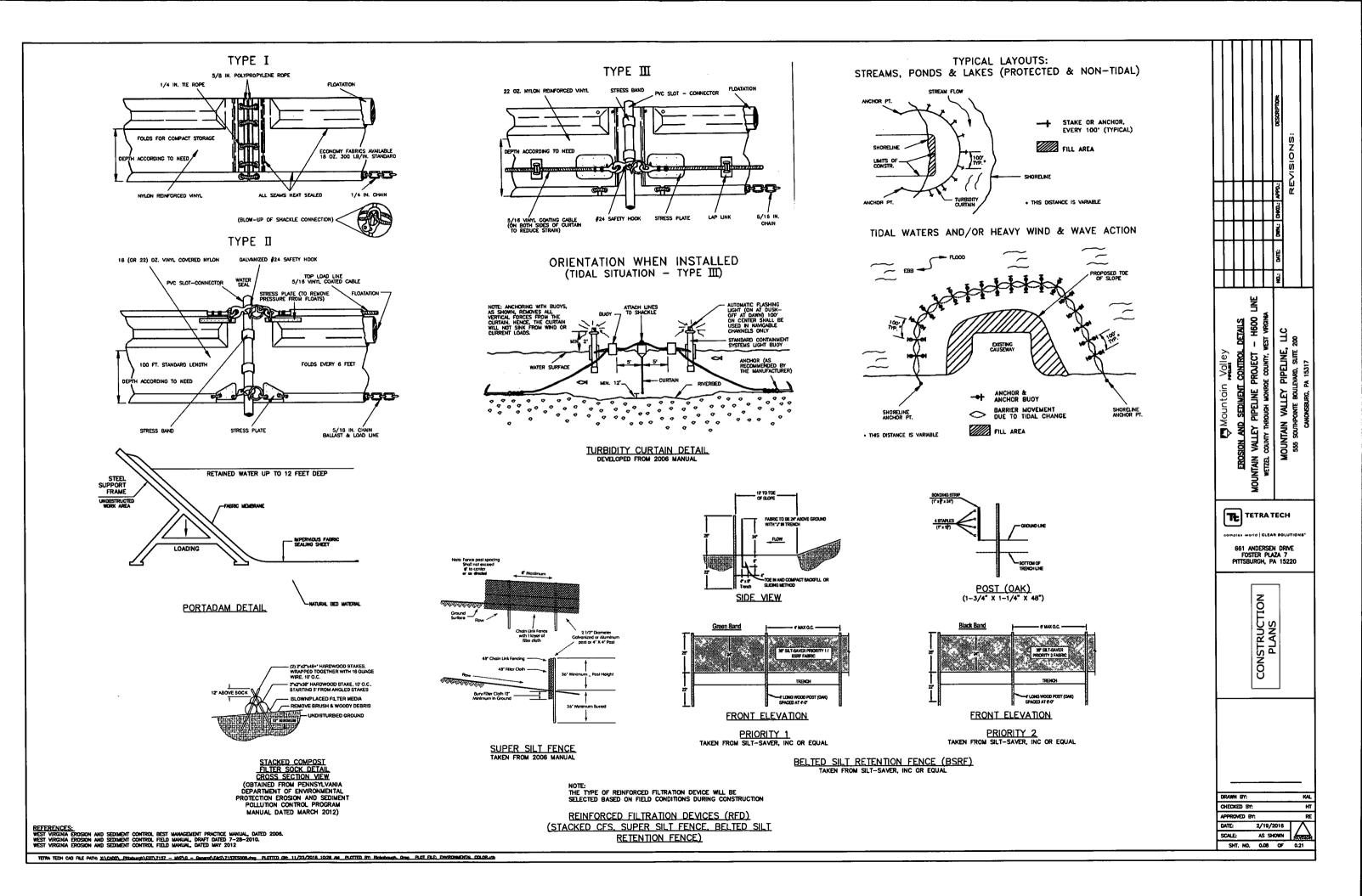


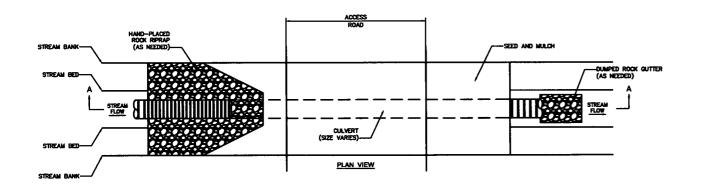


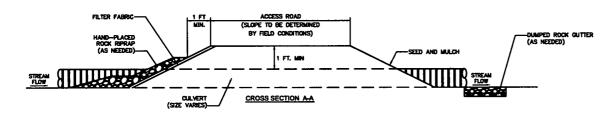
- 1. ARRANGE THE STRAW BALES TO THE EAST
- 2 IN OFTIOR 2, THE SOFTOM OF THE STRUCTURE NOT LINED WITH STRAW BALES, LINE THE ENTER
- OSWATERING FILTER BAG TO SE USED IN CONJUNCTION WITH STRAW BALE STRUCTURE FOR DEPOCHED SECULENT REMOVAL
- A. SEAMS OF GEOTEXTILE FABRIC TO SESSIVA TOGETHER

TYPICAL BALE DEWATERING STRUCTURE

						DWN.: CHIO.: APPO.: DESCR	REVISIONS:		
						DWN.:			
						DATE:			
						NO:		Ц	
Mountain Valley		EROSION AND SEDIMENT CONTROL DETAILS	The cool for our risk day of the contract of	MOUNIAIN VALLET PIPELINE PROJECT - HOUD LINE	WETZEL COUNTY THROUGH MONROE COUNTY, WEST VIRGINIA		SSS SQUINFOINTE BOULEVARD, SUITE 200	CANONSBURG, PA 15317	
	T	D10×	WO!	TR	RSEI PLA	R SO N D NZA A 1	:H :LUTION RIVE 7 5220	8 -	
				CONSTRUCTION	OI AND				
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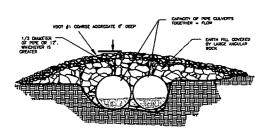




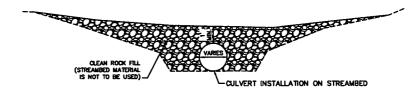


CULVERT SHALL BE DEPRESSED A MINIMUM OF 6 INCHES INTO STREAM BED TO ENSURE UPSTREAM AND DOWNSTREAM CONNECTIVITY

TYPICAL ROAD CROSS—SECTION AT STREAM CROSSING



TEMPORARY CULVERT CROSSING
TAKEN FROM VADEQ 1992 MANUAL



TYPICAL STREAM CROSSING PROFILE - SINGLE CULVERT TAKEN FROM WYDEP MANUAL

DRAWN BY:		K
CHECKED BY		
APPROVED BY	Y;	
DATE:	2/19/2016	$\Delta \Delta$
SCALE:	AS SHOWN	
SHT, NO.	0.09 OF	0.21

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VALLEY

MOUNTAIN V

DETAILS - H600

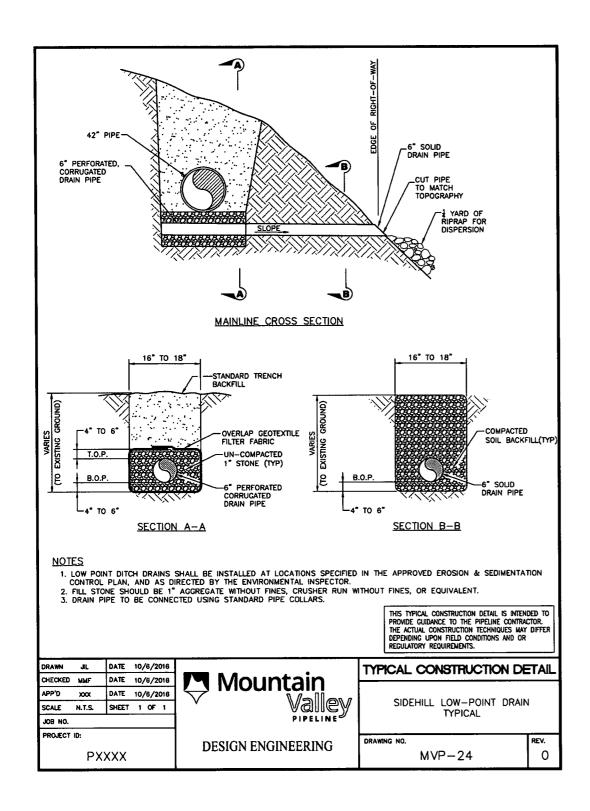
EROSION AND SEDIMENT CONTROL DI MOUNTAIN VALLEY PIPELINE PROJECT —

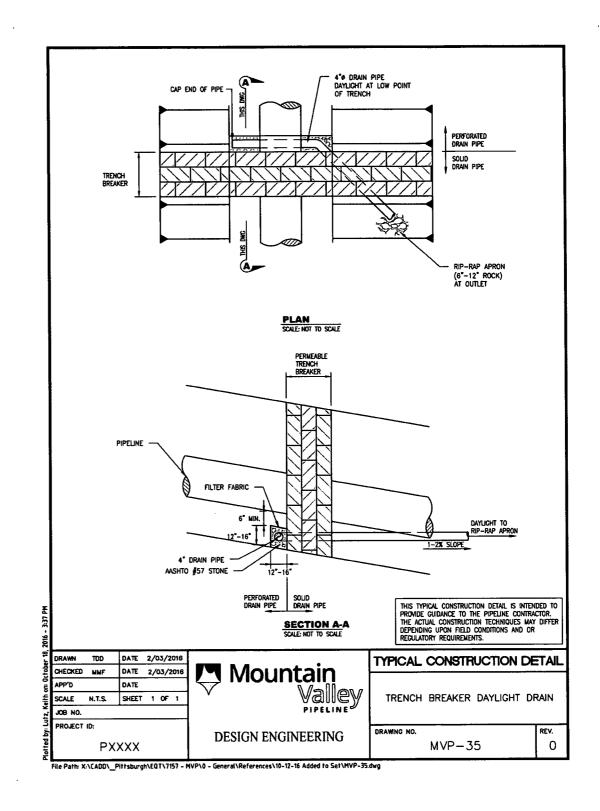
TE TETRATECH

661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220

NOTE:

The culvert types, sizes, and locations relative to the pipeline are shown on the table included as attachment drs water resources —6a.





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CHECKED BY:			нт
APPROVED BY	:		RE
DATE:	2/19/	2016	
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SHT. NO.	0.10	OF	0.21

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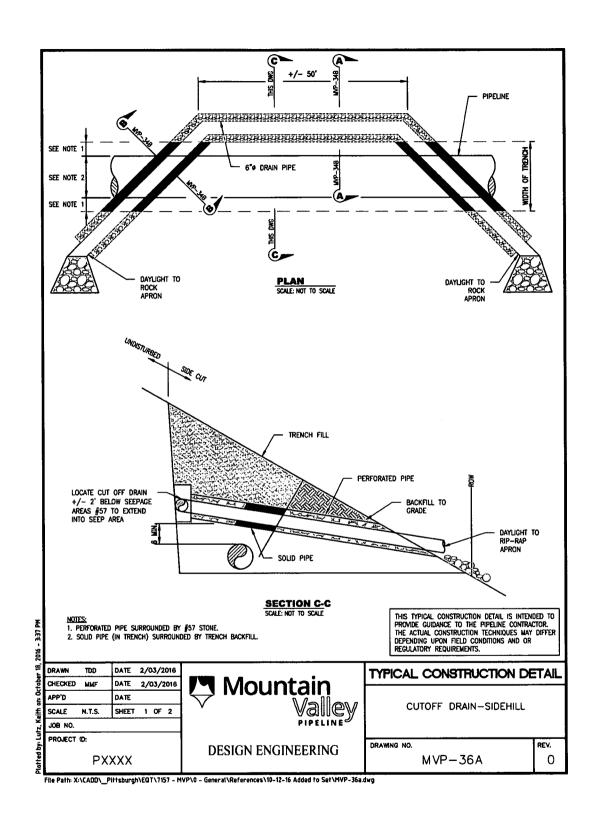
EROSION AND SEDIMENT (ITAIN VALLEY PIPELINE PI

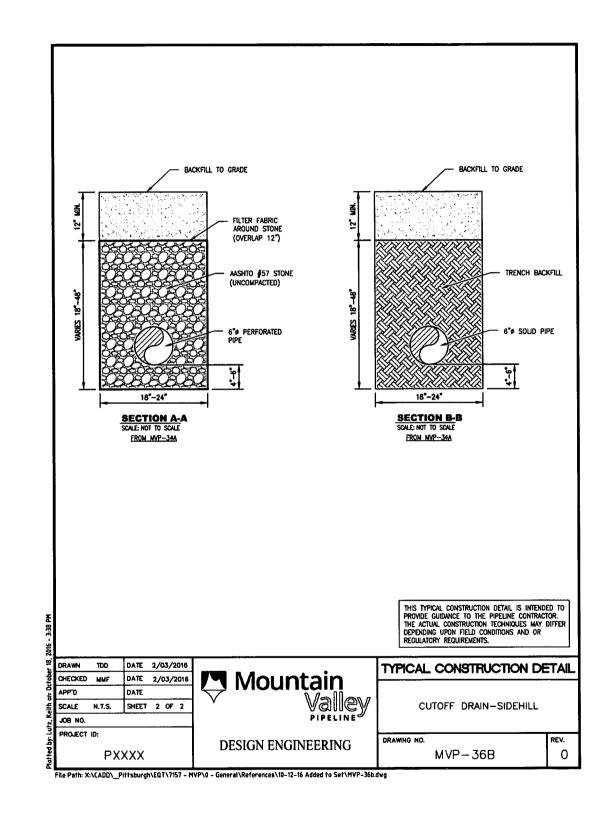
TE TETRATECH

661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220

WILEY

Mountain





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	CHECKED BY:			н
	APPROVED BY	ń		R
į	DATE:	2/19/	2016	$I \Lambda$
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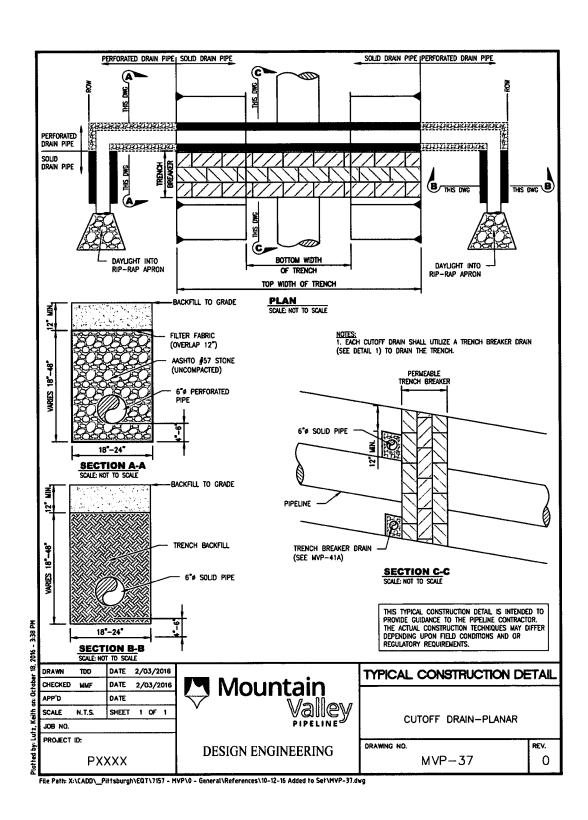
MOUNTAIN VALLEY F

DETAILS - H600

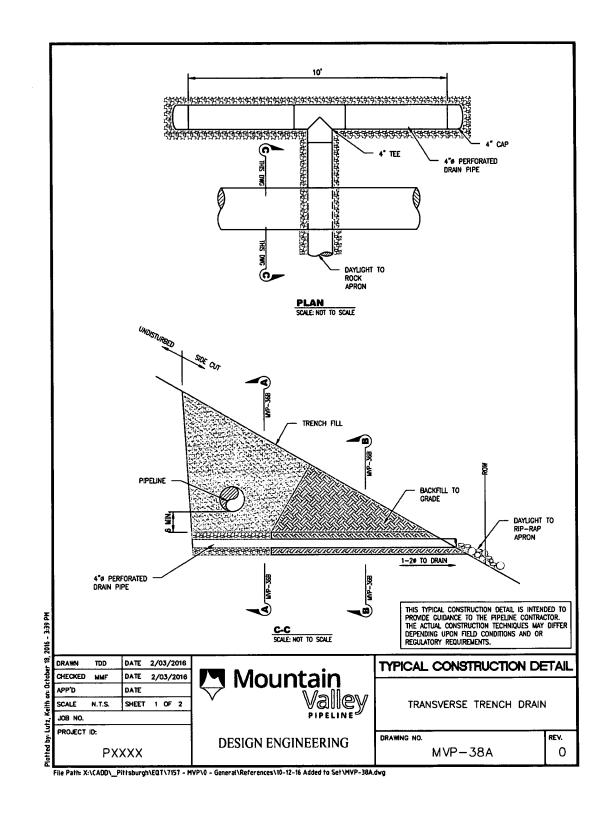
EROSION AND SEDIMENT CONTROL D
NTAIN VALLEY PIPELINE PROJECT —

TE TETRATECH

661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220



TETRA TECH CAD FILE PATTS (A)CHOON, PROMEMPSN,EDTN,7167 - MAPIN - CHOROMARCIAL COLOR-offs



SLIP PREVENTION DETAIL

DRAWN BY: KA
CHECKED BY: H

APPROVED BY: R

DATE: 2/19/2016

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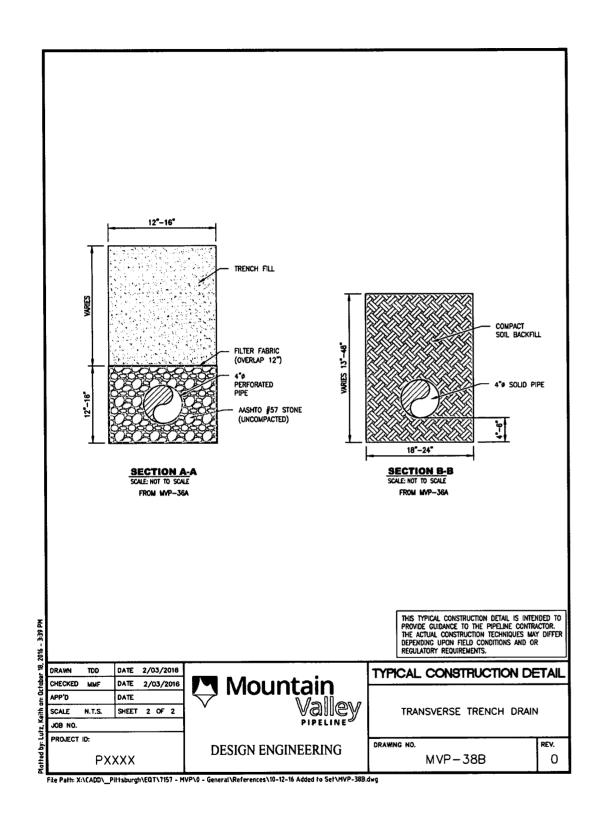
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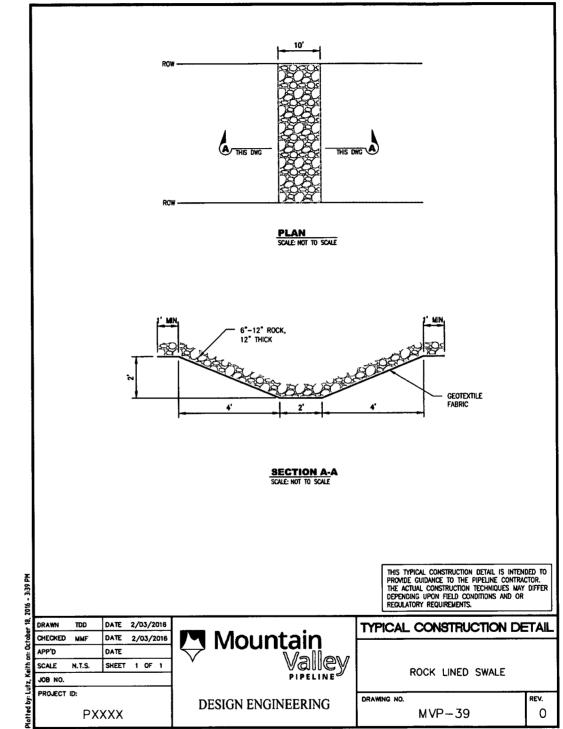
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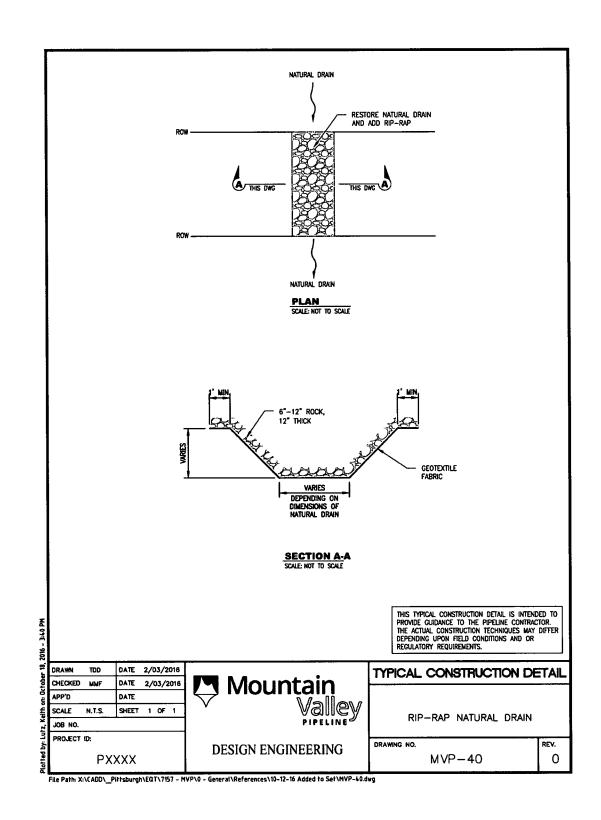
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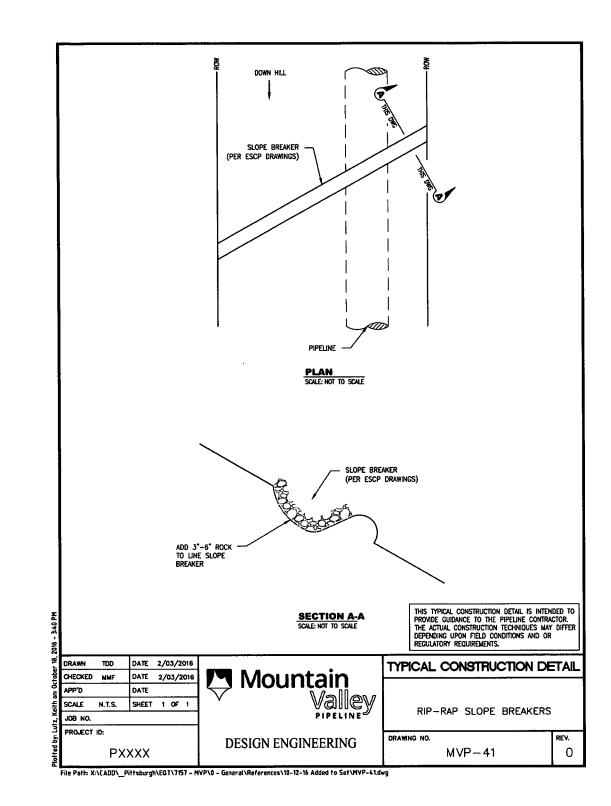
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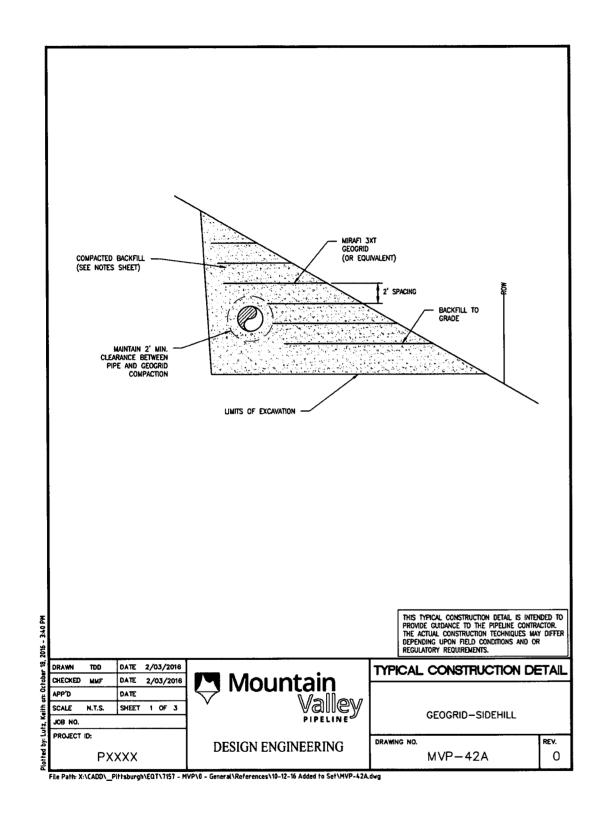
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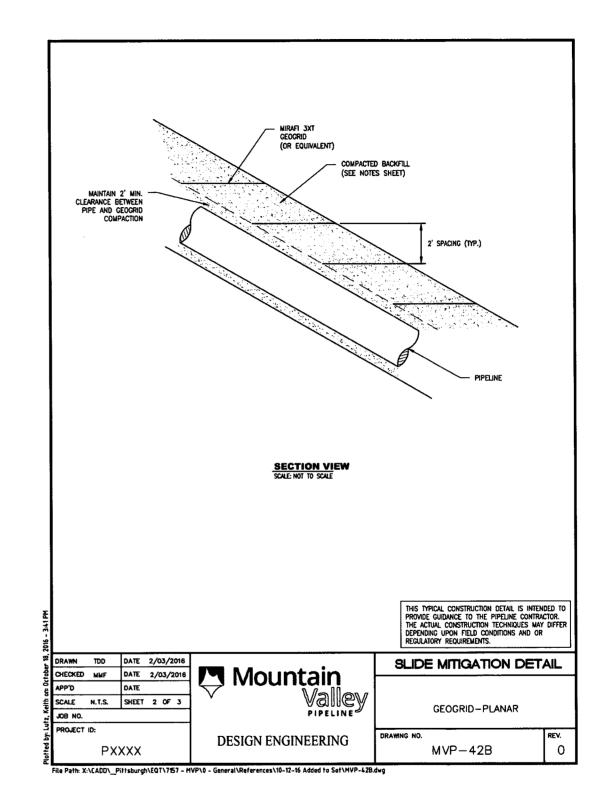
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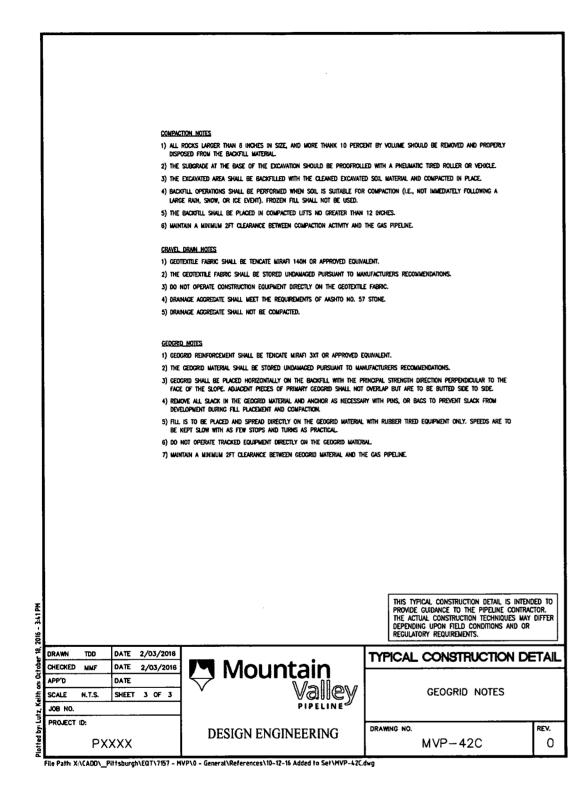
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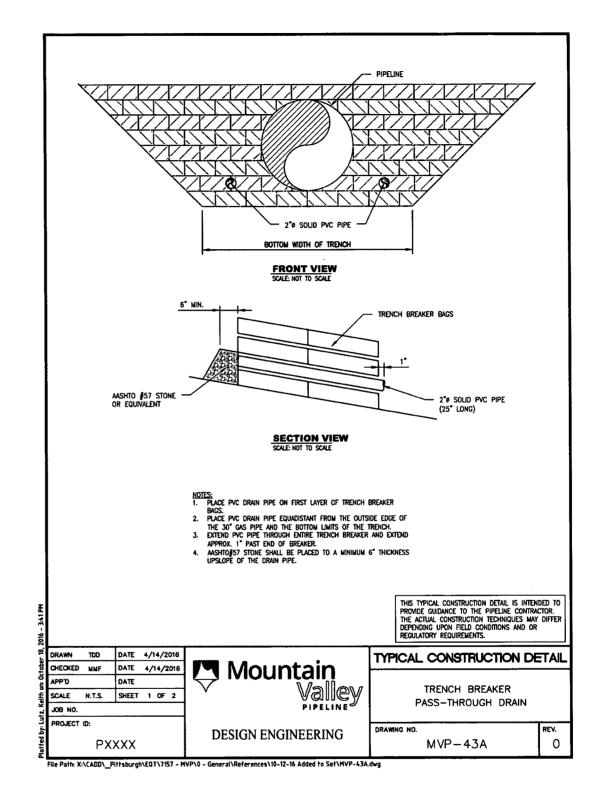
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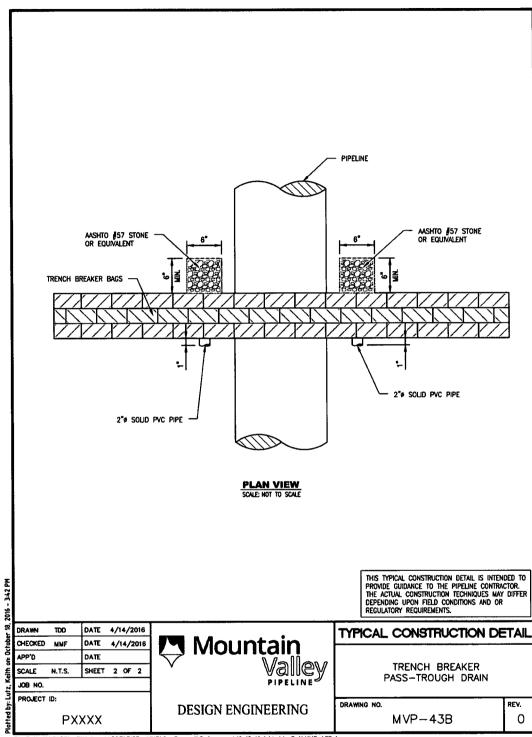
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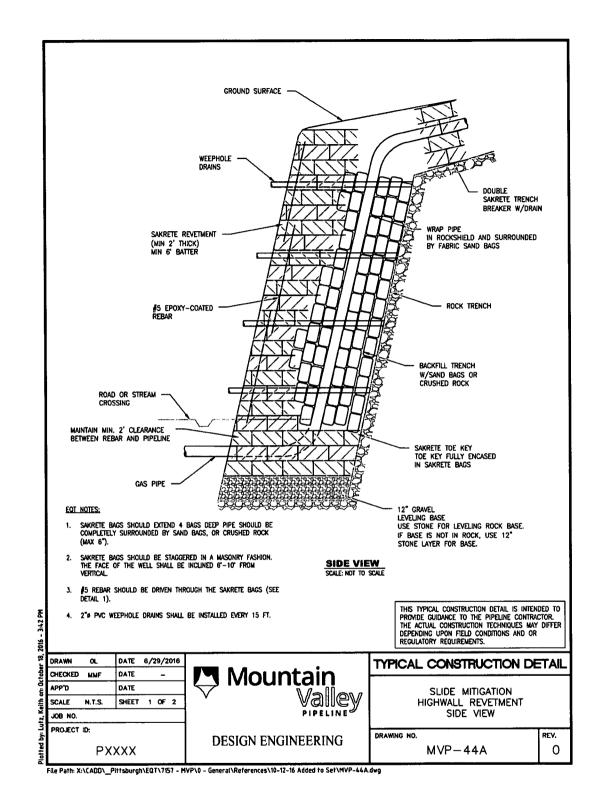
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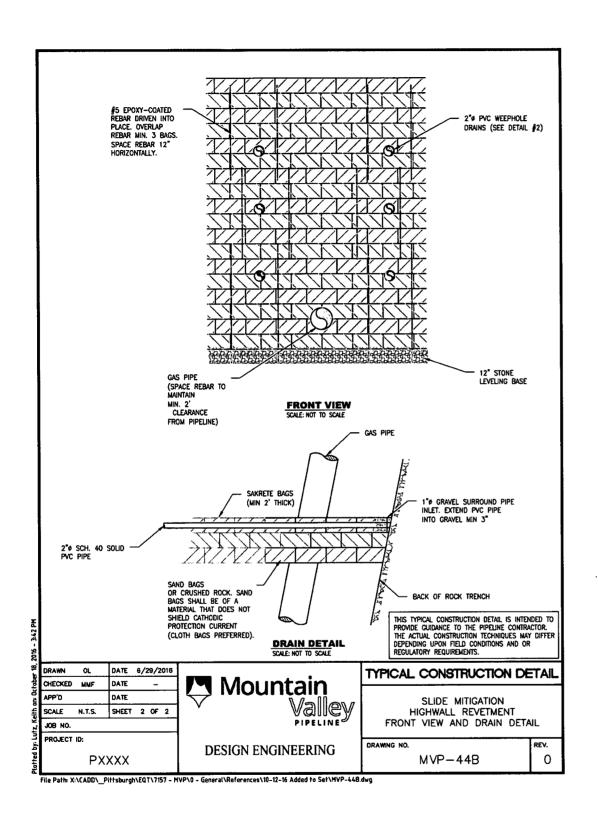
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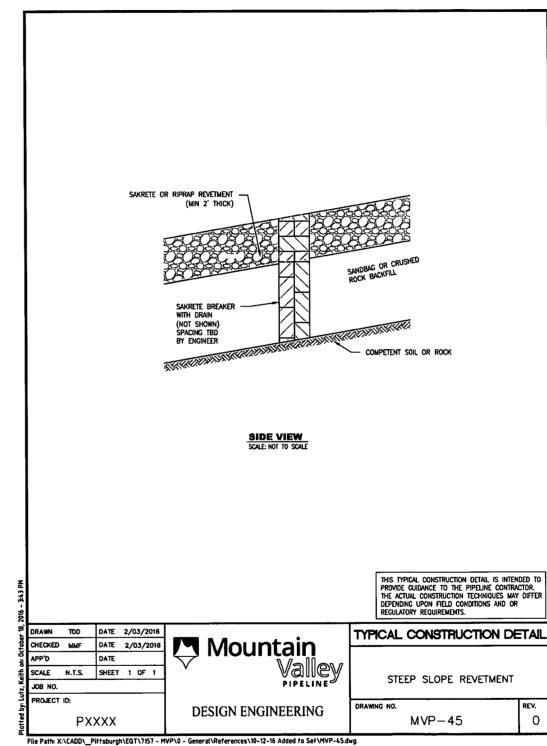
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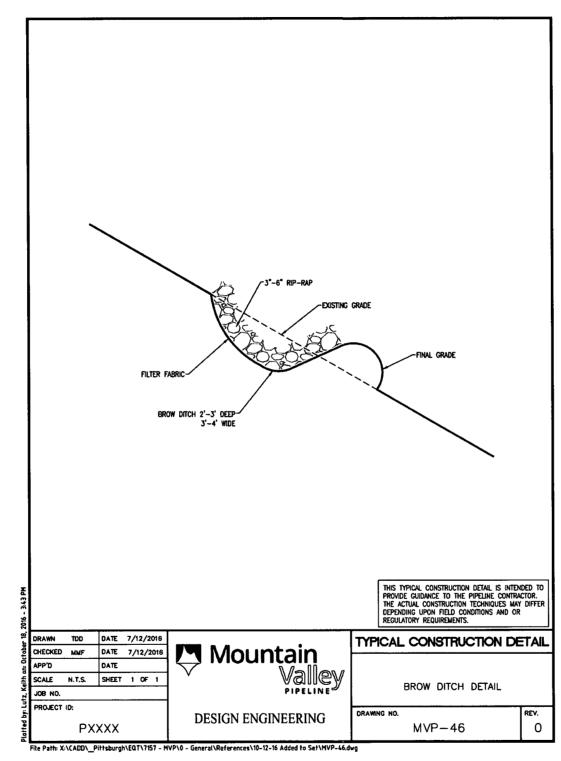
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GENERAL CONSTRUCTION SEQUENCE

THE FOLLOWING IS A GENERAL SEQUENCE FOR EARTHMOVING ACTIVITIES ASSOCIATED WITH CONSTRUCTION OF THE PIPELINE:

- INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS PRIOR TO EARTH DISTURBANCE. REFER TO BEST MANAGEMENT
 PRACTICES (BMP) INSTALLATION AND REMOVAL NOTES. APPROPRIATE BMP'S SHOULD BE PLACED AROUND SENSITIVE AREAS
 PRIOR TO EARTH DISTURBANCE. STONE CONSTRUCTION ENTRANCES (SCE) ARE TO BE PROVIDED AT ALL LOCATIONS WHERE
 ACCESS ROADS AND PIPELINES WILL BE ACCESSING OR CROSSING A PUBLIC ROADWAY.
- INSTALL TEMPORARY E&S CONTROLS FOR STREAM CROSSINGS AT LOCATIONS SHOWN ON THE E&S PLAN SHEETS. NO EARTH DISTURBANCE ACTIVITIES WITHIN 50 FEET OF STREAM CHANNELS WILL BE PERFORMED UNTIL MATERIALS NEEDED TO COMPLETE THE CROSSING ARE AT THE LOCATION.
- 3. GENERAL CLEARING AND GRUBBING OF THE TREES AND BRUSH ALONG THE RIGHT-OF-WAY (ROW) FOR PIPELINE TRENCHING MAY COMMENCE TO THE WIDTH SPECIFIED IN THE ROW AGREEMENTS OR CONSTRUCTION ALIGNMENT SHEETS, WHICHEVER IS LESS. SMALLER DEBRIS, SUCH AS SHRUBS OR LIMBS, ARE TO BE CHIPPED AND UTILIZED ON-SITE AS PART OF THE SOIL STABILIZATION, UNLESS OTHERWISE DIRECTED BY THE LANDOWNER, LOCS WILL DITHER BE HAULED OFF-SITE OR GIVEN TO THE LANDOWNER UPON THEIR REQUEST; STUMPS AND/OR LOGS WILL BE GROUND, CHIPPED, WINDROWED, OR HAULED OFF-SITE.
- 4. INSTALL TEMPORARY WATERBARS IMMEDIATELY AFTER INITIAL DISTURBANCE OF THE SOIL IN ACCORDANCE WITH THE WATERBAR SPACING AND SIZING REQUIREMENTS SHOWN ON THE PLAN AND DETAIL SHEETS. WATERBARS WILL BE CONSTRUCTED OF SOIL, AND USED TO REDUCE RUNOFF VELOCITY AND DIVERT WATER OFF THE PIPELINE ROW. WATERBARS WILL BE INSTALLED WITH COMPOSTED FILTER SOCK AT THE DISCHARGE END.
- 5. EXCAVATE PIPELINE TRENCH AND BEGIN GRADING OF PROPOSED METER AND RECTIFIER ANODE BED SITES. THE PROPOSED CONSTRUCTION ROW AND EXTRA WORKSPACES ARE TO BE USED AS A WORK AREA FOR TRENCH EXCAVATION, EQUIPMENT MOVEMENT AND THE TEMPORARY STORAGE OF SOIL STOCKPILES, AS NEEDED. EQUIPMENT, SOIL STOCKPILES AND OTHER MATERIALS ARE TO REMAIN UPSLOPE OF BMPS DURING CONSTRUCTION ACTIVITIES. REFER TO BMP INSTALLATION AND REMOVAL SEQUENCE FOR THE BMPS TO BE USED FOR PROTECTION DURING TRENCH EXCAVATION AND AROUND TEMPORARY SOIL STOCKPILES. SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED WHERE TRENCH EXCAVATION TAKES PLACE IN AN AGRICULTURAL WETLAND OR RESIDENTIAL AREA.
- 6. PIPELINE SECTIONS WILL BE TRANSPORTED TO THE WORK AREA AND STRUNG ALONG THE WORKING SIDE OF THE ROW PARALLEL TO THE TRENCH LINE. WELDING CAN OCCUR IN OR OUT OF THE TRENCH. THE PIPELINE WILL BE BENT TO CONFORM TO THE TRENCH CONTOUR, ALIGNED WELDED AND PLACED ON TEMPORARY SUPPORTS ALONGSDE THE TRENCH. WELDS WILL BE VISUALLY AND RADIO-GRAPHICALLY INSPECTED AND REPAIRED AS NECESSARY. THE PIPE SECTION WILL BE LOWERED INTO THE TRENCH AND PLACED ON PADDING PER MYP CONSTRUCTION STANDARDS. ANY WETNESS ENCOUNTERED DURING CONSTRUCTION WORK WILL BE DEWATERED BY USING PUMPS, HOSES, AND PUMPED FILTER (DEWATERING) BAGS, AND WILL BE DISCHARGED TO A WELL VEGETATED, UPLAND AREA. NO STANDING WATER IS PERMITTED IN PIPE TRENCH AT ANY POINT IN TIME EXCEPT FOR WETLAND AREAS.
- STREAM PIPELINE CROSSING CONSTRUCTION METHODS WILL BE INSTALLED AT LOCATIONS SHOWN ON THE E&S PLAN SHEETS
 AND AS SPECIFIED ON DETAIL SHEET. STREAM BANK STABILIZATION WILL BE INSTALLED IMMEDIATELY FOLLOWING COMPLETION
 OF PIPELINE INSTALLATION AS SHOWN ON THE DETAIL SHEET.
- 8. INSTALL TRENCH BREAKERS AT LOCATIONS SHOWN ON THE DRAWINGS OR AS DIRECTED BY MVP AND AS SPECIFIED ON THE
- 9. THE TRENCH WILL SUBSEQUENTLY BE BACKFILLED WITH SUITABLE EXCAVATED MATERIAL. THE BACKFILL MATERIAL WILL BE SLIGHTLY CROWNED IN UPLAND AREAS TO ALLOW FOR SETTLEMENT THAT MAY OCCUR. CROWNING THE SOIL SLIGHTLY OVER THE PIPELINE WILL HELP PREVENT FUTURE STORM WATER-RELATED PROBLEMS FROM SETTLING OF THE BACKFILLED AREA. NO CROWNING OF SOILS WILL TAKE PLACE IN WETLANDS, STREAMS OR FLOODPLAINS. IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL WILL BE REPLACED FIRST, AND THEN THE TOPSOIL WILL BE SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. DISTURBED AREAS WILL BE RESTORED TO THEIR APPROXIMATE ORIGINAL TOPOGRAPHIC CONTOURS.
- 10. STABILIZE EXPOSED AND UNWORKED SOILS BY APPLICATION OF EFFECTIVE BMPS THAT PROTECT THE SOIL FROM THE EROSIVE FORCES OF RAINDROPS, FLOWING WATER, AND WIND. AREAS AT FINAL GRADE SHOULD BE SEEDED AND MULCHED OR OTHERWISE STABILIZED WITHIN 7 DAYS AND AREAS THAT MILL NOT BE WORKED AGAIN FOR 21 DAYS OR MORE MUST BE SEEDED AND MULCHED OR OTHERWISE STABILIZED WITHIN 7 DAYS.
- 11. IN THE UNLIKELY EVENT THAT THERE ARE EXCESS EXCAVATED MATERIALS REMAINING AFTER THE TRENCH HAS BEEN BACKFILLED; THE MATERIAL IS TO BE DISPOSED OF WITHIN THE EXISTING ROW IN AN UPLAND AREA OUTSIDE OF THE 100—YEAR FLOODPLAIN, MATERIAL WILL BE SPREAD IN A THIN LAYER AND TIED INTO EXISTING CONTOURS TO CREATE POSITIVE DRAINAGE FOR STORMWATER RUNOFF.
- 12. CONSTRUCT PERMANENT WATERBARS AFTER COMPLETION OF GRADING IN ACCORDANCE WITH THE WATERBAR SPACING AND SIZING REQUIREMENTS SHOWN ON PLAN AND DETAIL SHEETS. PERMANENT WATERBARS ARE NOT PERMITTED IN AGRICULTURAL OR DETAILS
- 13. REVEGETATE DISTURBED AREA PER TABLES ON THIS SHEET OR PER LANDOWNER REQUEST. FOR 3:1 OR STEEPER SLOPES THE DISTURBED AREA WILL HAVE EROSION CONTROL FABRIC (BLANKETING, HYDROSEEDING, FLEXTERRA, OR APPROVED EQUAL) INSTALLED AS SHOWN ON DETAIL SHEET. BLANKETING IS NOT PERMITTED IN AGRICULTURAL OR PASTURE LANDS.
- 14. RE-ESTABLISH APPROPRIATE DRAINAGE IN EXISTING ROAD CHANNELS PRIOR TO SEEDING AND MULCHING.
- 15. INSPECTION OF ALL EROSION AND SEDIMENTATION CONTROLS WITHIN DISTURBED AREAS WILL BE, AT A MINIMUM, PERFORMED ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD, REPAIRS OR MAINTENANCE SHALL BE PERFORMED IMMEDIATELY TO BMPS. A FINAL INSPECTION SHALL BE REQUESTED ONCE THERE IS UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE ESTABLISHED. TEMPORARY BMPS WILL BE REMOVED UPON ACHIEVING VEGETATIVE STABILIZATION. THE 70 PERCENT REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED, DISTURBED AREA NOT ATTAINING A UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE SHALL BE RE-SEEDED AS NEEDED UNTIL UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE SHALL BE
- 18. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND LEGALLY DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF SURFACE WATERS. WOODY DEBRIS MAY BE CHOPPED AND SPREAD ON-SITE.

FOR STREAM CROSSINGS, REFER TO THE FOLLOWING STEPS:

- INSTALL TEMPORARY EQUIPMENT BRIDGE, BYPASS HOSE, FLUME, PUMP, OR COFFERDAM AS DESCRIBED IN STREAM CROSSING DETAILS AROUND THE WORK AREA.
- DEWATER WORK AREA UTILIZING PUMP WATER FILTER BAGS. WHERE POSSIBLE, EXCAVATION WILL BE FROM THE TOP OF THE STREAM BANK. STOCKPILE STREAM BED MATERIAL SEPARATELY FROM OTHER SOILS TO BE USED DURING THE STREAM BESTSTORATION.
- 3. INSTALL TRENCH PLUGS, PIPE, AND BACKFILL.
- 4. STABILIZE CHANNEL EXCAVATION AND STREAM BANKS PRIOR TO REDIRECTING STREAM FLOW. STOCKPILE STREAM BED MATERIAL WILL BE THE LAST MATERIAL RESTORED IN THE STREAM CHANNEL.
- 5. REMOVE BYPASS HOSE, FLUME, PUMP, AND TEMPORARY DAM AS NEEDED.
- IF WORKING WITHIN A WETLAND AREA, FOLLOW THE GENERALIZED CONSTRUCTION SEQUENCE BELOW:
- 1 INSTALL EITHER SUPER SILT FENCE OR COMPOST FILTER SOCKS ALONG THE PERIMETERS OF THE SITE AS SHOWN ON THE CONSTRUCTION DRAWNICS
- MATS, PADS, OR SIMILAR DEVICES WILL BE USED DURING THE CROSSINGS OF WETLANDS. ORIGINAL GRADES THROUGH WETLANDS MUST BE RESTORED AFTER TRENCHING AND BACKFILLING. ANY EXCESS FILL MATERIALS MUST BE REMOVED FROM THE WETLAND AND NOT SPREAD WITHIN WETLANDS.
- SOIL EXCAVATED FROM WETLAND AREAS WILL BE CAREFULLY REMOVED WITH THE ROOTS INTACT. THIS SOIL SHOULD BE PLACED IN A SEPARATE STOCKPILE TO BE REUSED DURING THE WETLAND SURFACE RESTITUTION.
- 4. DEWATER WORK AREA UTILIZING PUMP WATER FILTER BAGS.

- 5. INSTALL PIPE.
- 6. INSTALL TRENCH PLUGS IN WETLAND AREAS TO PREVENT THE TRENCH FROM DRAINING THE WETLAND OR CHANGING ITS HYDROLOGY.
- BACKFILL PIPE TRENCH. BACKFILL THE TOP 12-INCHES OF THE EXCAVATED TRENCH WITH THE STOCKPILED WETLAND SOIL TO MATCH ORIGINAL SURFACE GRADES.
- 8. COMPACT BACKFILL AND GRADE THE SURFACE OF THE TRENCH AREA TO ALLOW FOR POSITIVE DRAINAGE TO SOIL E&SCS AND TO PREPARE DISTURBED AREAS FOR PERMANENT TRENCH RESTORATION.
- MAINTAIN ALL EASCS DEVICES UNTIL SITE WORK IS COMPLETE AND A UNIFORM 70-PERCENT PERENNIAL VEGETATIVE COVER IS ESTABLISHED.
- 10. REMOVE ALL SOIL AND EARSC MEASURES UPON ESTABLISHMENT OF A UNIFORM 70-PERCENT VEGETATIVE COVER OVER THE DISTURBED AREA. RE-GRADE AND REVEGETATE AREAS DISTURBED DURING THE REMOVAL OF THE SOIL EARSCS.

BMP MAINTENANCE

- TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS SHALL BE MAINTAINED AND
 REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE
 AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE AS STATED IN WEST VIRGINIA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION, DIVISION OF WATER AND WASTE MANAGEMENT, EROSION AND SEDIMENT
 CONTROL BEST MANAGEMENT PRACTICE MANUAL, 2006.
- IN NON-AGRICULTURAL AREAS THE VISUAL SURVEY SHALL BE COMPARED TO THE DENSITY AND COVER OF ADJACENT UNDISTURBED LANDS. IN AGRICULTURAL AREAS, THE VISUAL SURVEY SHALL BE COMPARED TO THE ADJACENT UNDISTURBED PORTIONS OF THE SAME FIELD, UNLESS THE EASEMENT AGREEMENT SPECIFIES OTHERWISE.
- WETLANDS ALONG THE PROPOSED PIPELINE ARE EXPECTED TO EXHIBIT VARYING DEGREES OF SATURATION AND WATER ELEVATION, REQUIRING A VARIETY OF PLANT SPECIES TO BE RE-ESTABLISHED. IN UNSATURATED WETLANDS, MOST VEGETATION WILL BE REPLACED BY SEEDING. SATURATED WETLANDS WILL TYPICALLY BE ALLOWED TO RE-VEGETATE NATURALLY. WETLAND REVEGETATION WILL BE CONSIDERED SUCCESSFUL WHEN THE COVER OF HERBACEOUS AND/OR WOODY SPECIES IS AT LEAST 80 PERCENT OF THE TYPE, DENSITY, AND DISTRIBUTION OF THE VEGETATION IN ADJACENT WETLAND AREAS THAT WERE NOT DISTURBED BY CONSTRUCTION. REVEGETATION EFFORTS WILL CONTINUE UNTIL WETLAND REVEGETATION IS SUCCESSFUL.
- INSPECTION OF ALL EROSION AND SEDIMENTATION CONTROLS WITHIN DISTURBED AREAS WILL BE, AT A MINIMUM, PERFORMED ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT EQUAL TO OR GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. REPAIRS OR MAINTENANCE SHALL BE PERFORMED IMMEDIATELY TO BMPS.A FINAL INSPECTION SHALL BE REQUESTED ONCE THERE IS UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE ESTABLISHED. TEMPORARY BMPS WILL BE REMOVED UPON ACHIEVING VEGETATIVE STABILIZATION. THE 70 PERCENT REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT A PERCENT OF THE SITE. DISTURBED AREAS NOT ATTAINING A UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE SHALL BE RE-SEEDED AS NEEDED UNTIL UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE IS ESTABLISHED.
- TEMPORARY EROSION AND SEDIMENT CONTROL BMPS SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL RESULTING FROM REMOVAL OF BMPS OR VEGETATION SHALL BE PERMANENTLY STABILIZED.

REFERENCES

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF WATER AND WASTE MANAGEMENT, EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, 2008.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS, WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL, MAY 2012.

RECOMMENDED PERMANENT AND TEMPORARY SEED MIXTURES AND FERTILIZER/MULCH FOR REVEGETATION OF UPLAND AREAS

ITEM	UP	LANDS
	PERMANENT SEED AND MULCH	APPLICATION RATES
Seed 1	Kentucky 31 tali fescue	65 pounds per acre
Seed 1	Empire Birdsfoot Trefoil (1/2 Empire, 1/2 Viking)	5 pounds per acre of inoculated seed
Seed 1	Redfescue	20 pounds per ocre
Lime	Agricultural Grade (Pellet Form)	2 Tons per acre without a soil test
Fertilizer	10-20-20	1/2 ton per acre
Mulch	Grass Hay or Cereal Straw	3 tons per acre
	TEMPORARY SEED AND MULCH	APPLICATION RATES
Seed 1	Annual Ryegrass	40 pounds per acre
Mulch	Grass Hay or Cereal Straw	3 tons per acre

NOTES

- 1 ALL SEED IS PURE LIVE SEED.
- 2 UNLESS OTHERWISE REQUESTED BY LANDOWNER IN R.O.W.

REVEGETATION OF WETLAND AREAS

ITEM	WETLANDS*	
Seed 1	Annual Ryegrass	48 pounds per acre

NOTES

- 1 ALL SEED IS PURE LIVE SEED.
- 2 DO NOT APPLY MULCH, FERTILIZER, OR LIME IN WETLAND AREAS.

ALTERNATE PERMANENT SEED MIXTURES

ITEM	ALTERNATE NO. 1	
-	PERMANENT SEED AND MULCH	APPLICATION RATES
Seed 1	Alfaifa	18 pounds per acre
Seed 1	Clover	5 pounds per acre

ITEM	ALTERNATE NO. 2	
PERMANENT SEED APPLICATION RATES		
Seed 1	Orchard Grass	30 pounds per acre
Seed 1	Clover	5 pounds per acre

ITEM	ALTERNATE NO. 3 - WILDLIFE SEED MIX	
	PERMANENT SEED APPLICATION	ON RATES
Seed 1	ERNMX — 260 PA Piedmont Province UPL Mix 26% Indiangrass 26% Little Bluestem 20% Virginia Wildrye 10% Big Bluestem 7% Purpletop 5% Switchgrass 4% Deertongue 2% Purple Lovegrass	20 pounds per acre

NOTES

- 1 ALL SEED IS PURE LIVE SEED.
- 2 CONTRACTOR TO USE ALTERNATE SEED MIXTURES PER LANDOWNER REQUEST DOCUMENTATION PROVIDED BY MVP.

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BEST MANAGEMENT PRACTICES (BMP) INSTALLATION & REMOVAL NOTES

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

THE FOLLOWING ARE GENERAL BMP INSTALLATION NOTES FOR PIPELINE CONSTRUCTION ACTIVITIES.

- A STONE CONSTRUCTION ENTRANCE, SHOWN ON DETAIL SHEET, SHALL BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC WILL BE ACCESSING A PAVED ROAD DIRECTLY FROM A DISTURBED AREA.
- TEMPORARY SEDIMENT BARRIERS, INCLUDING APPROPRIATELY SIZED SILT FENCE OR COMPOST FILTER SOCK WILL BE PLACED AROUND SOIL STOCKPILES, AS NEEDED.
- APPROPRIATELY SIZED COMPOST FILTER SOCK WILL BE PLACED AROUND WETLANDS AND WATERBODIES IN AND ADJACENT TO THE WORK AREA PRIOR TO ANY TRENCHING ACTIVITIES.
- . STOCKPILE SLOPES WILL BE 2:1 OR FLATTER, AND STOCKPILES WILL NOT EXCEED 35 FEET IN HEIGHT.
- TEMPORARY STREAM CROSSINGS SHALL BE INSTALLED AS INDICATED ON THE E&S PLAN SHEETS AND AS PER THE E&S DETAIL SHEETS.
- EXCAVATED TRENCH SPOIL MATERIAL WILL BE USED FOR TEMPORARY RIGHT OF WAY DIVERSIONS AS SHOWN IN THE DETAIL AT THE LOCATIONS INDICATED ON THE PLAN SHEETS.
- WATERBARS WILL BE INSTALLED IMMEDIATELY AFTER INITIAL DISTURBANCE OF THE SOIL IN ACCORDANCE WITH THE SPACING AND SIZING REQUIREMENTS SHOWN ON PLAN AND DETAIL SHEET. WATERBARS WILL BE CONSTRUCTED OF SOIL TO REDUCE RUNOFF VELOCITY AND DIVERT WATER OFF THE PIPELINE ROW.
- TRENCH DEWATERING, IF NEEDED, WILL BE CONDUCTED USING A PUMP AND HOSE. WATER WILL BE RELEASED INTO A FILTER BAG THAT WILL BE LOCATED IN A WELL-VEGETATED UPLAND AREA.
- TRENCH BREAKERS WILL BE INSTALLED ON SLOPES ADJACENT TO STREAMS, WETLANDS, AND ROAD CROSSINGS TO PREVENT SUBSURFACE EROSION. TRENCH BREAKERS WILL BE INSTALLED AS SHOWN ON THE DETAILS.
- THE WORK AREA WILL BE BACKFILLED FOLLOWING PIPELINE INSTALLATION OR OTHER EXCAVATION WORK. IN AREAS WHERE TOPSOIL HAS BEEN SECRECATED, THE SUBSOIL WILL BE REPLACED FIRST, AND THEN THE TOPSOIL WILL BE SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. DISTURBED AREAS WILL BE RESTORED TO THEIR ORIGINAL TOPOGRAPHIC CONTOURS.
- PERMANENT WATERBARS, WILL BE CONSTRUCTED WITH A TWO PERCENT (TYPICAL) OUTSLOPE TO DIVERT SURFACE FLOW TO A WELL VEGETATED STABLE AREA.
- IMMEDIATELY FOLLOWING BACKFILLING ALL DISTURBED AREAS WILL BE GRADED IN PREPARATION FOR SEEDING AND MULCHING. THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL COVER MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. REFER TO TABLES ON THIS SHEET FOR TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS.
- FOR 3:1 OR STEEPER SLOPES THE DISTURBED AREA WILL HAVE EROSION CONTROL BLANKETING INSTALLED AS INDICATED ON DETAIL SHEET.
- TEMPORARY SEDIMENT BARRIERS WILL BE MAINTAINED, UNTIL VEGETATION HAS BECOME ESTABLISHED WITH A UNIFORM COVERAGE OF DENSITY OF 70 PERCENT OR MORE WITHIN THE DISTURBED ROW. ONCE THIS COVERAGE HAS BEEN OBTAINED, APPROPRIATE CONTROLS WILL BE REMOVED FROM THE WORK AREA. AREAS DISTURBED DURING THE REMOVAL OF THE EROSION CONTROLS WILL BE STABLIZED IMMEDIATELY. THE 70 PERCENT REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT A PERCENT OF THE SITE.
- ALL WASTE MATERIAL WILL BE TRANSPORTED OFFSITE FOR RECYCLING AND/OR DISPOSAL AT A FACILITY APPROVED TO RECEIVE THE MATERIAL..
- IN NON-AGRICULTURAL AREAS THE VISUAL SURVEY SHALL BE COMPARED TO THE DENSITY AND COVER OF ADJACENT UNDISTURBED LANDS, IN AGRICULTURAL AREAS, THE VISUAL SURVEY SHALL BE COMPARED TO THE ADJACENT UNDISTURBED PORTIONS OF THE SAME FIELD, UNLESS THE EASEMENT AGREEMENT SPECIFIES
- WETLANDS ALONG THE PROPOSED PIPELINE ARE EXPECTED TO EXHIBIT VARYING DEGREES OF SATURATION AND WATER ELEVATION, REQUIRING A VARIETY OF PLANT SPECIES TO BE RE-ESTABLISHED. IN UNSATURATED WETLANDS, MOST VEGETATION WILL BE REPLACED BY SEEDING. SATURATED WETLANDS WILL TYPICALLY BE ALLOWED TO RE-VEGETATION WILL BE REPLACED BY SEEDING WILL BE CONSIDERED SUCCESSFUL WHEN THE COVER OF HERBACEOUS AND/OR WOODY SPECIES IS AT LEAST 80 PERCENT OF THE TYPE, DENSITY, AND DISTRIBUTION OF THE VEGETATION IN ADJACENT WETLAND AREAS THAT WERE NOT DISTRIBUTED BY CONSTRUCTION. REVEGETATION EFFORTS WILL CONTINUE UNTIL WETLAND REVEGETATION IS SUCCESSFUL.

STREAM CROSSING PROCEDURES

GENERAL: PROCEDURES THAT WILL BE FOLLOWED AT STREAM CROSSING LOCATIONS INCLUDE THE FOLLOWING:

- MINIMIZE CLEARING AND GRUBBING OF VEGETATION UP TO STREAMS, AS POSSIBLE, UNTIL THE TIME OF THE
- ONLY THAT AREA WHICH IS REQUIRED FOR PIPELINE INSTALLATION SHALL BE DISTURBED WITHIN THE PROPOSED LIMIT OF DISTURBANCE OR RIGHT-OF-WAY AT STREAM CROSSINGS; LOCATING STAGING AREAS 50 FEET AWAY FROM THE STREAM, WHERE POSSIBLE;
- STORING CHEMICALS, STORING EQUIPMENT, WASHING EQUIPMENT, OR REFUELING EQUIPMENT MUST BE DONE IN
 AREAS THAT ARE GREATER THAN 100 FEET AWAY FROM THE STREAM;
- SPOIL PILE PLACEMENT AND BMPS WILL BE MONITORED AT ALL TIMES DURING STREAM CROSSING PROCEDURES; ONCE WORK WITHIN A STREAM AREA IS STARTED, IT WILL BE CONDUCTED CONTINUOUSLY TO COMPLETION; EMPHASIS WILL BE PLACED ON MINIMIZING TIME OF DISTURBANCE;
- SPOILS FROM STREAM CROSSINGS MUST BE PLACED AT LEAST 10 FEET FROM THE WATER'S EDGE; AND
- CONSTRUCTION EQUIPMENT WILL NOT BE ALLOWED IN THE STREAM CHANNEL WHEN EXCAVATION CAN BE DONE FROM EITHER SIDE OR A TEMPORARY CROSSING WHILE WORKING AT THE STREAM CROSSING.
- SOME OF THE WATERSHEDS CROSSED BY THE PROJECT ARE CLASSIFIED AS WARM WATER OR TROUT STREAMS, REFER TO TABLES IN ATTACHMENT 2 OF THE NARRATIVE FOR A LISTING OF THE STREAMS. IN—STREAM WORK DESIGNATED WARM WATER STREAMS AND THEIR ADJACENT TRIBUTARIES IS RESTRICTED DURING THE FISH SPAWNING SEASON OF APRIL—JUNE. IN—STREAM WORK IN DESIGNATED TROUT WATER AND THEIR ADJACENT TRIBUTARIES IS RESTRICTED DURING THE SPAWNING SEASON SEPTEMBER 15—MARCH 31ST UNLESS A SPAWNING SEASON WAIVER IS GRANTED FROM THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES, WILDLIFE RESOURCES SECTION. IN STREAM WORK MAY OCCUR DURING THE RESPECTIVE SPAWNING SEASON EPHEMERAL WATERS WITHOUT A WAIVER IF ALL REASONABLE MEASURES ARE TAKEN TO MINIMIZE TURBIDITY AND SEDIMENTATION DOWNSTREAM ASSOCIATED WITH THE PROPOSED PROJECT.

THE FOLLOWING SECTIONS DESCRIBE STREAM CROSSING TECHNIQUES THAT MAY BE USED DURING PIPELINE RELOCATION/INSTALLATION ACTIVITIES. REFER TO THE DETAIL SHEETS AND SWPPP FOR ADDITIONAL INFORMATION.

DRY CROSSING TECHNIQUES:
THESE TECHNIQUES WILL BE USED TO PERFORM PIPELINE WORK IN A RELATIVELY DRY WORKING CONDITION OR AROUND THE OPEN EXCAVATION. THESE TECHNIQUES INCLUDE PUMP AROUND AND FLUME PIPE CROSSING METHODS. THE LIMITING FACTORS FOR THESE TECHNIQUES ARE USUALLY STREAM SIZE, FLOW, AND WATER DEPTH.

DIRECTIONAL BORING IS ALSO A TECHNIQUE THAT CAN BE UTILIZED AS IT WILL LESSEN THE IMPACTS ON THE

E&S CONTROL MEASURES WILL BE INSTALLED PRIOR TO ANY EARTH DISTURBANCE AND ADDRESSED IF NECESSARY IMMEDIATELY AFTER DISTURBANCE OF THE WATERBODY.

FLUME PIPE METHOD: PLEASE SEE DETAIL SHEETS AND SWPPP FOR MORE INFORMATION ON THE FLUME PIPE METHOD. THIS PROCEDURE INVOLVES CONSTRUCTING TWO BULKHEADS, BITHER SANDBAGS OR PLASTIC DAMS, TO DIRECT THE STREAM FLOW THROUGH A FLUME PIPE PLACED OVER THE TRENCH PRIOR TO EXCAVATION. THE FLUME SHALL BE ALIGNED AS TO PREVENT BANK EROSION AND BED SCOUR. THE FLUME WILL NOT BE REMOVED TRENCHING, PIPE LAYING OR BACKFILLING.

PUMP AROUND METHOD: PLEASE SEE THE DETAIL SHEETS AND SWPPP FOR MORE INFORMATION ON THE PUMP AROUND METHOD. THIS PROCEDURE INVOLVES CONSTRUCTING TWO BULKHEADS, EITHER SANDBAGS OR PLASTIC DAMS. THE UPSTREAM DAM WILL CAUSE THE WATER TO POND WHERE IT CAN BE PUMPED AROUND THE WORK AREA AND BE DISCHARGED BEHIND THE DOWNSTREAM BULKHEAD. PUMPS OF SUFFICIENT SIZE TO TRANSMIT THE FLOW DOWNSTREAM WILL BE USED. BACKUP PUMPS MUST BE ON—SITE. PUMP INTAKES MUST BE SCREENED. PUMP DISCHARGES MUST NOT CAUSE SCOUR.

TEMPORARY ROAD CROSSINGS:
TEMPORARY ROAD CROSSINGS, CONSISTING OF BRIDGES OF TIMBER MATS OR CLEAN ROCK FILL AND FLUME(S),
WILL BE INSTALLED TO CROSS MINOR OR INTERMEDIATE STREAMS. TIMBER MATS SHALL BE USED TO CROSS
SMALLER STREAMS WHERE THE SPAN OF THE MAT WILL STRETCH FROM BANK TO BANK, OTHERWISE IN STREAM
SUPPORTS MAY BE INSTALLED. CLEAN ROCK FILL AND FLUMED CROSSINGS WILL BE UTILIZED WHERE IT IS NOT
FEASIBLE TO UTILIZE TIMBER MATS. AS AN ALTERNATIVE, PORTABLE BRIDGES MAY BE USED INSTEAD FOR SMALL
CROSSINGS. EQUIPMENT WILL NOT BE ALLOWED TO FORD FLOWING STREAMS DURING CONSTRUCTION ACTIVITIES.
TEMPORARY ROAD CROSSINGS OF STREAMS MUST MAINTAIN FOR ADEQUATE FLOW DOWNSTREAM.

STREAM BANK STABILIZATION:
PERMANENT STABILIZATION SHALL OCCUR IMMEDIATELY UPON INSTALLATION, BACKFILLING, AND GRADING AT EACH

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LEGEND	
1160	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
	EXISTING PROPERTY LINE
	EXISTING COUNTY LINE
	EXISTING ROAD
\leftarrow	EXISTING UTILITY POLE
~	EXISTING GUY ANCHOR
\bowtie	EXISTING GAS VALVE
$\langle \hat{A} \rangle$	EXISTING GAS WELL
(6)	EXISTING WATER WELL
43	EXISTING UNKNOWN WELL
(A)	EXISTING GATE POST
1	EXISTING GATE POST
	FEMA 100 YEAR FLOODPLAIN
	EXISTING STREAM
	EXISTING WETLAND
· ×	EXISTING FENCE
•	EXISTING WATERLINE
	EXISTING COLUMBIA GAS PIPELINE
	EXISTING MOUNTAINEER GAS PIPELINE
	EXISTING REX GAS PIPELINE
	EXISTING EQT GAS PIPELINE
	EXISTING EAST RESOURCES GAS PIPELINE
	EXISTING DOMINION GAS PIPELINE
	EXISTING UNKNOWN GAS PIPELINE
	EXISTING OVERHEAD ELECTRIC
	PROPOSED CONTOUR (MAJOR)
	PROPOSED CONTOUR (MINOR)
	PROPOSED LIMIT OF DISTURBANCE
	PROPOSED ACCESS ROAD CENTERLINE
	PROPOSED PIPELINE
	PROPOSED SILT FENCE (SEE NOTE 6)
	PROPOSED SUPER SILT FENCE
ocsf	ORANGE CONSTRUCTION SAFETY FENCE
—— ств ——	PROPOSED COMPOST FILTER SOCK
	PROPOSED REINFORCED FILTRATION DEVICE
->>-	PROPOSED TEMPORARY RIGHT OF WAY DIVERSION AND OUTLET
-	PROPOSED CULVERT WITH OUTLET PROTECTION
	TIMBER MAT
	STEEP SLOPE EROSION CONTROL (SEE NOTE 3)
	STEEP SLOPE (SEE NOTE 5)
A	PROPOSED WATERBAR
A	PROPOSED WATERBAR TEMP
ō	PROPOSED TRENCH PLUG

ACCESS ROAD LEGEND

3 STREAM CROSSING (1) ROCK CONSTRUCTION ENTRANCE (2) WETLAND CROSSING

ROCK CHECK DAM

NOTES:

PROPOSED ROCK CONSTRUCTION ENTRANCE

- WATERBARS WITHIN AGRICULTURAL AREAS SHALL BE USED AS TEMPORARY FEATURES.

 NO EROSION CONTROL MATTING SHALL BE INSTALLED IN AGRICULTURAL AREAS.
 FLEXITERRA OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MAYP.
 CONTRACTOR IS RESPONSIBLE TO IDENTRY ALL UTLILITES. THE UTLITY LINES SHOWN ON THE PLAN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT SURVEYED LINE INFORMATION.
- INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT SURVEYED LINE INFORMATION.

 SLOPES OF 35" OR GREATER EXIST. CONSTRUCTION FOR STEEP SLOPES TO BE PERFORMED USING STEEP SLOPE TECHNIQUES IDENTIFIED IN THE DETAIL SHEETS.

 MERKE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MAYP.

 IMPROVEMENTS TO PERMANENT AND TEMPORARY ACCESS ROADS WILL BE PERFORMED AS NEEDED AND BMP'S MAY BE SUBSTITUTED IF FIELD EVALUATIONS REQUIRE ADJUSTMENTS TO ACCOMDULATE FIELD VERIFIED CONDITIONS.

GENERAL NOTES AND LEGEND

VALLEY PIPELINE PROJECT - H

L COUNTY THROUGH MONTROE COUNTY, WEST - F VALLEY PIPELINE, PONTE BOULEVARD, SUITE 20 NONSBURG, PA 15317 MOUNTAIN V MOUNTAIN WETZEL C TE TETRATECH complex world | CLEAR SOLUTION 661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220 NOI CONSTRUCTI PLANS

DRAWN BY: CHECKED BY: APPROVED BY: DATE: 2/19/2015 SCALE: AS SHOWN SHT. NO. 0.21 OF 0.21

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George Eidel <doddridgecountyfpm@gmail.com>

Permit #17-473 90-day extension request

Jarrett M. Smith < JMSmith@potesta.com>

Wed, Aug 15, 2018 at 8:23 AM

To: "doddridgecountyfpm@gmail.com" <doddridgecountyfpm@gmail.com>

Cc: "Hoover, Matthew S." <MHoover@eqt.com>, "Jordan W. Beard" <i wbeard@potesta.com>

George,

As per our recent conversation we would like to request a 90-day extension for Permit #17-473 which expires on August 21, 2018.

Thanks,

Jarrett M. Smith, P.E.

Senior Engineer

AUG15 18 2:22PM

Potesta & Associates, Inc.

7012 MacCorkle Avenue, SE

Charleston, WV 25304

Phone: (304) 342-1400

Fax: (304) 343-9031





George Eidel <doddridgecountyfpm@gmail.com>

Property Information Requested (16-0259-008C)

Jordan W. Beard < iwbeard@potesta.com>

Wed, Jul 26, 2017 at 1:51 PM

To: "doddridgecountyfpm@gmail.com" <doddridgecountyfpm@gmail.com>

Cc: "Jarrett M. Smith" <JMSmith@potesta.com>, "Hoover, Matthew S." <MHoover@eqt.com>, "Jessica L. Yeager"

<JLYeager@potesta.com>, "Charlene L. Racer" <CLRacer@potesta.com>

Mr. Eidel,

Below is the requested Physical Location and attached is the land owner information. If further information is needed please let me know.

Physical Address of Pipeline Crossing - County Route 2/5, Salem, WV 26426

Coordinates - 39.2012850, -80.5533870

Thanks,

Jordan Beard Engineer Potesta & Associates, Inc. 7012 MacCorkle Avenue, SE Charleston, WV 25304

Phone: (304) 342-1400

Fax: (304) 343-9031

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

Doddridge County Land Owner Information 008C.pdf 9K

Email to Smith Orotesta on Fasta Monday