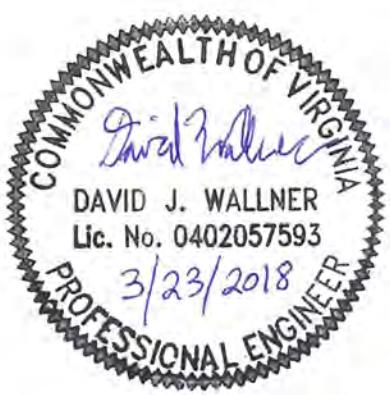
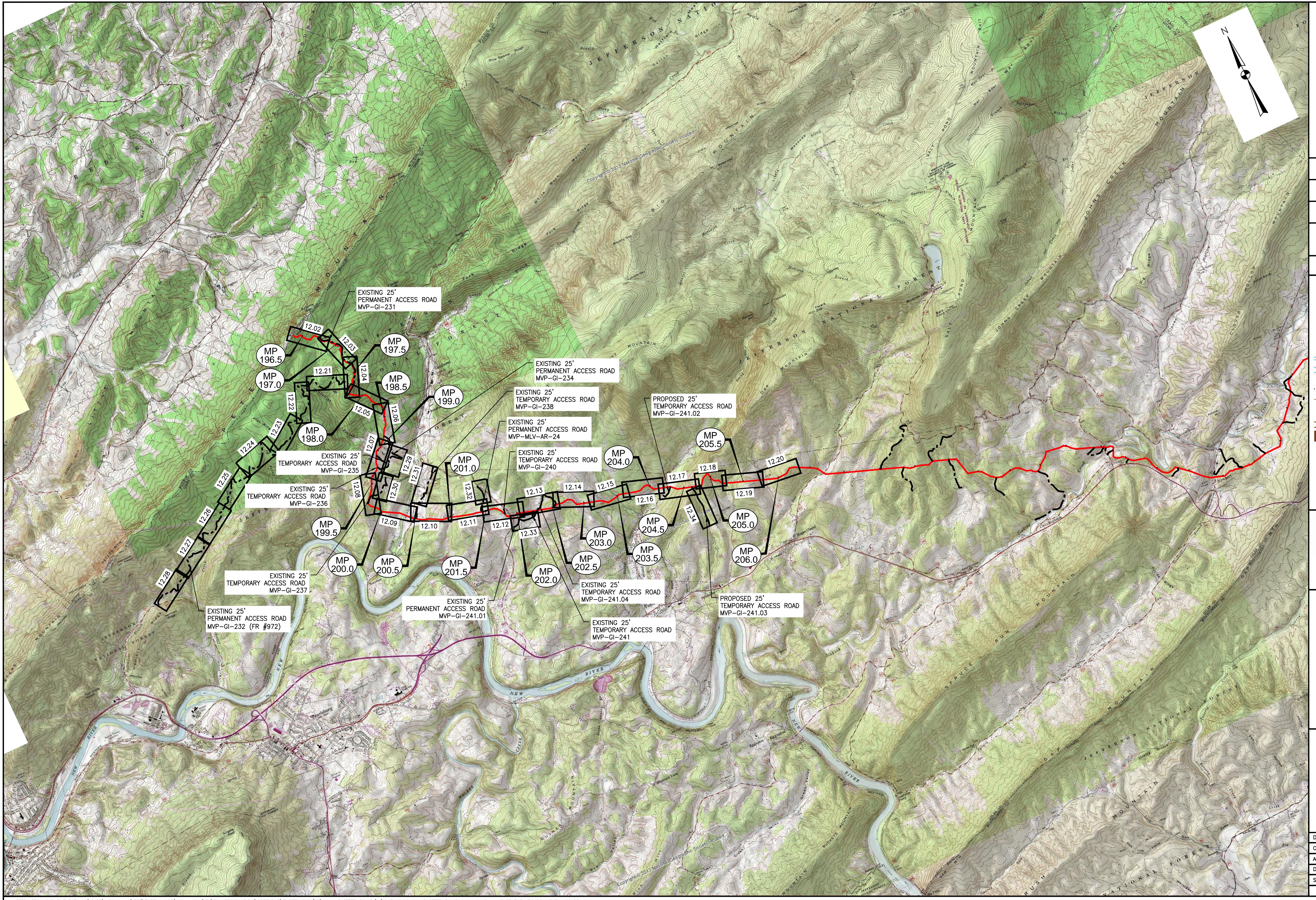
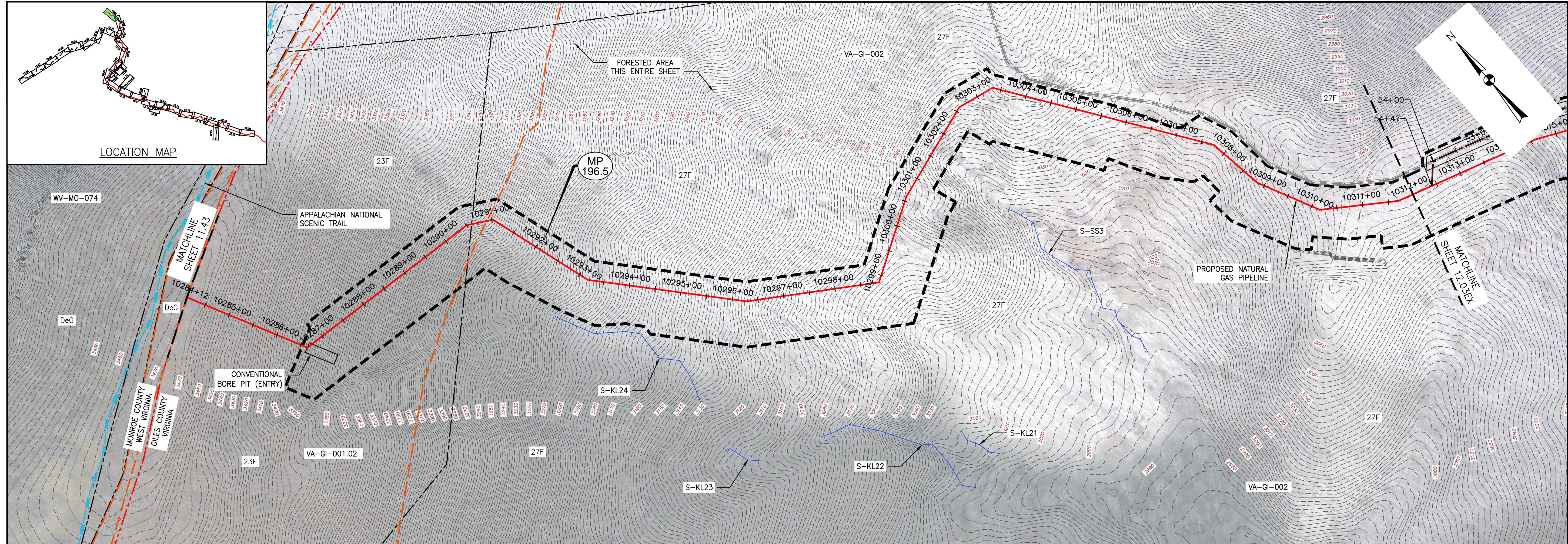


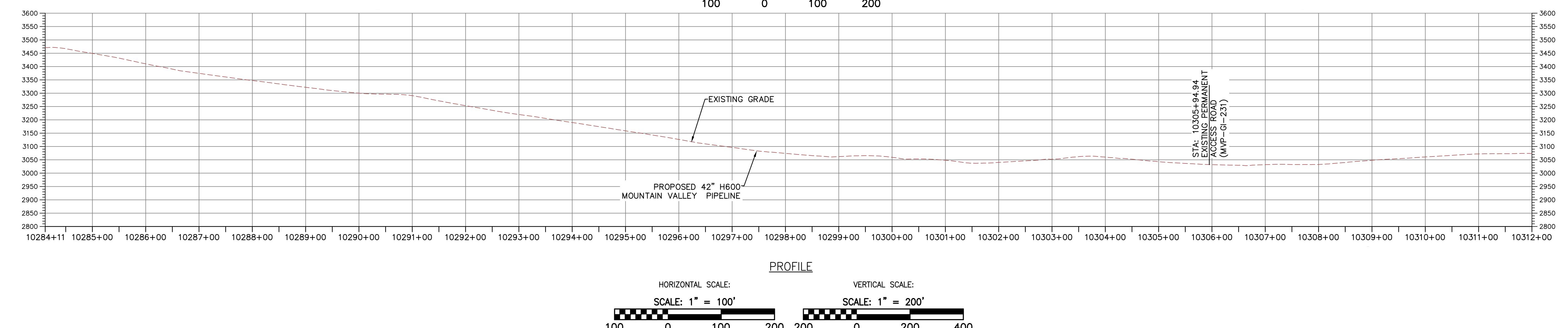
By virtue of this seal and signature, all supporting documents included in this package are accurate and support the design presented herein.







EXISTING CONDITIONS				REVISIONS:	
NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
MOUNTAIN VALLEY PIPELINE, LLC					
555 SOUTHPOINTE BOULEVARD, SUITE 200					
SPREAD 8 – GILES COUNTY, VIRGINIA					
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE					



NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
2. FLEXTERRA, EARTHGARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
3. 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.
4. SLOPES OF 30° OR GREATER EXIST. CONSTRUCTION FOR STEEP SLOPES TO BE PERFORMED USING STEEP SLOPE TECHNIQUES IDENTIFIED IN THE DETAIL SHEETS. ALSO REFER TO THE SITE-SPECIFIC DESIGN OF STABILIZATION MEASURES IN SELECTED HIGH-HAZARD PORTIONS OF THE ROUTE OF THE PROPOSED MOUNTAIN VALLEY PIPELINE PROJECT.
5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
6. IMPROVEMENTS TO PERMANENT AND TEMPORARY ACCESS ROADS WILL BE PERFORMED PER THE SITE SPECIFIC ACCESS ROAD DETAILS.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS.

LEGEND

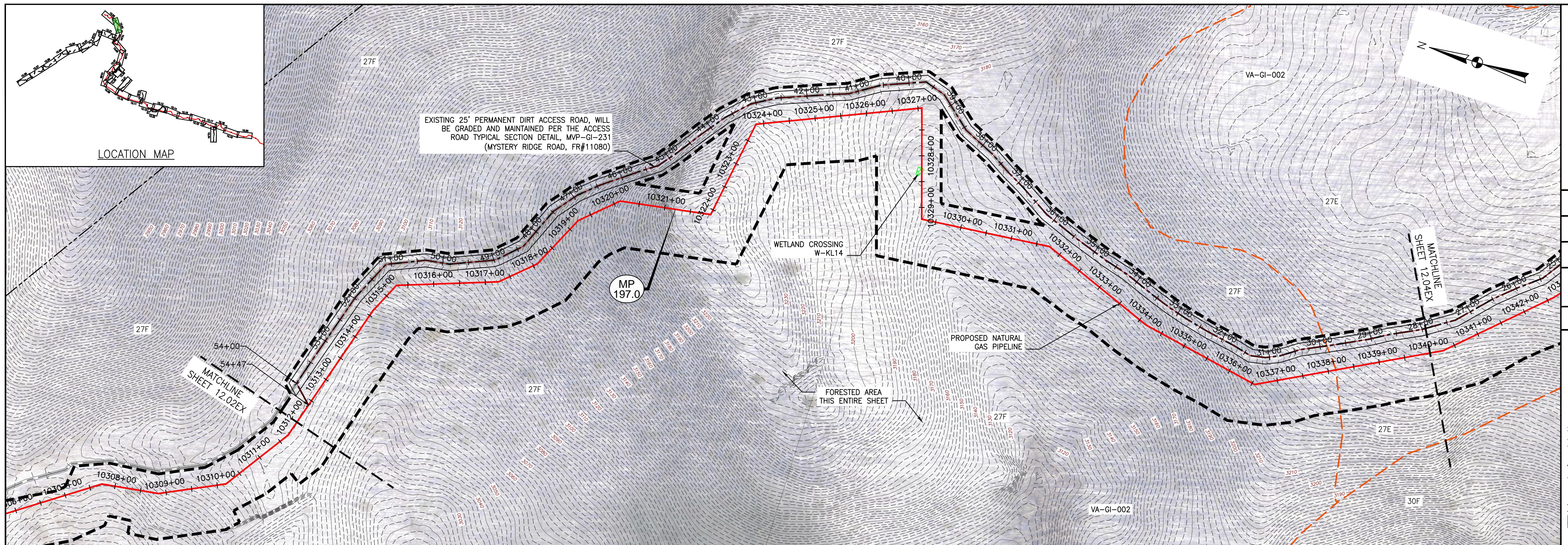
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST)
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI AGRICULTURAL LAND USE BOUNDARY

#### ACCESS ROAD LEGEND

- (2) WETLAND CROSS  
(3) STREAM CROSS

A circular official stamp from the Commonwealth of Virginia. The outer ring contains the words "COMMONWEALTH OF VIRGINIA" in a stylized font. Inside the circle, the name "DAVID J. WALLNER" is printed above the text "Lic. No. 0402057593". A handwritten signature, appearing to read "David J. Wallner", is written across the bottom of the stamp. To the right of the signature, the word "PROFESSIONAL ENGINEER" is printed vertically.

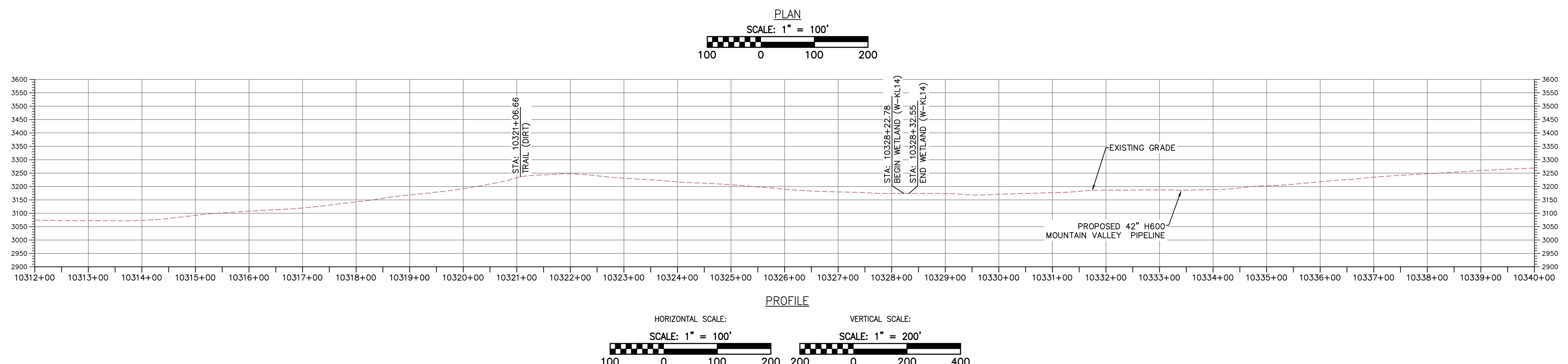
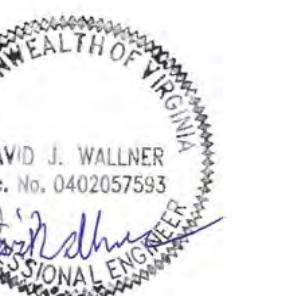
DRAWN BY:	L
CHECKED BY:	J
APPROVED BY:	
DATE:	3/1/2016
SCALE:	AS SHOWN
SHT NO.	12-02EX
OF	12-345



**Mountain Valley Pipeline**  
EXISTING CONDITIONS  
SPREAD 8 - GILES COUNTY, VIRGINIA  
MOUNTAIN VALLEY PIPELINE, LLC  
555 SOUTHPOINTE BOULEVARD, SUITE 200  
CANONSBURG, PA 15311

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661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



**LEGEND**

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRICULTURAL LAND USE BOUNDARY
- AFM — AFM — ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

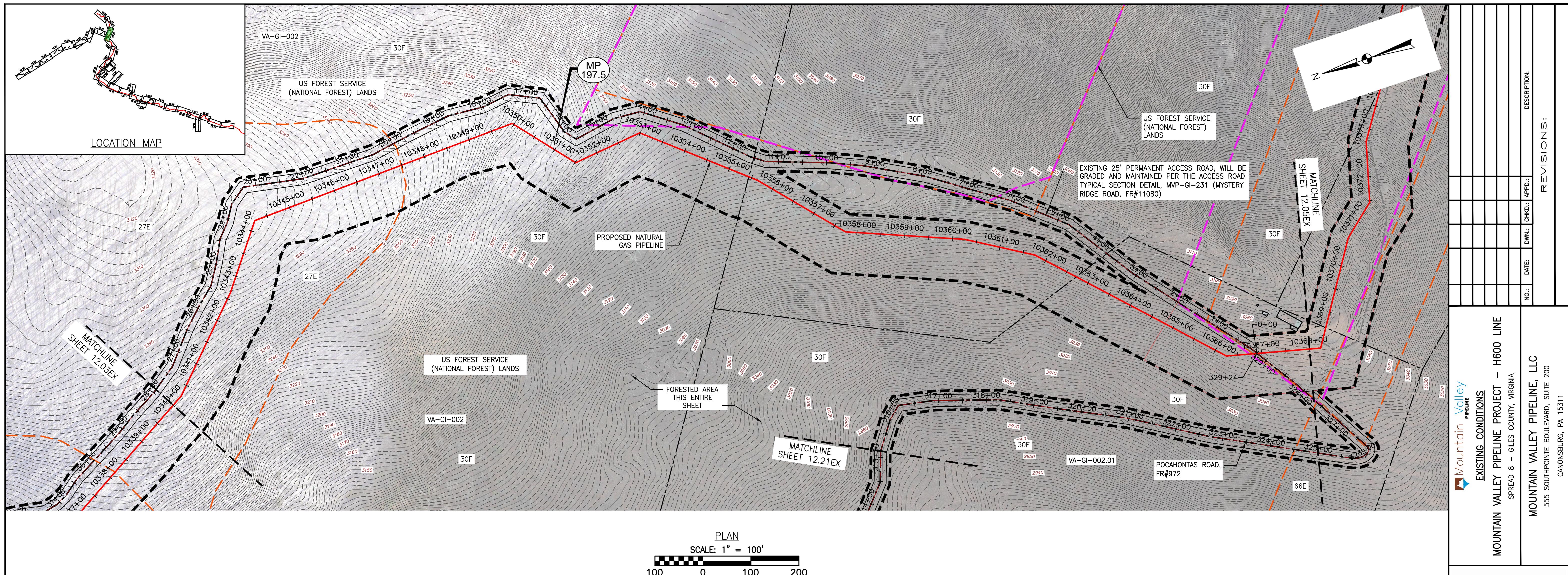
**ACCESS ROAD LEGEND**

- (2) WETLAND CROSSING
- (3) STREAM CROSSING

**NOTES:**

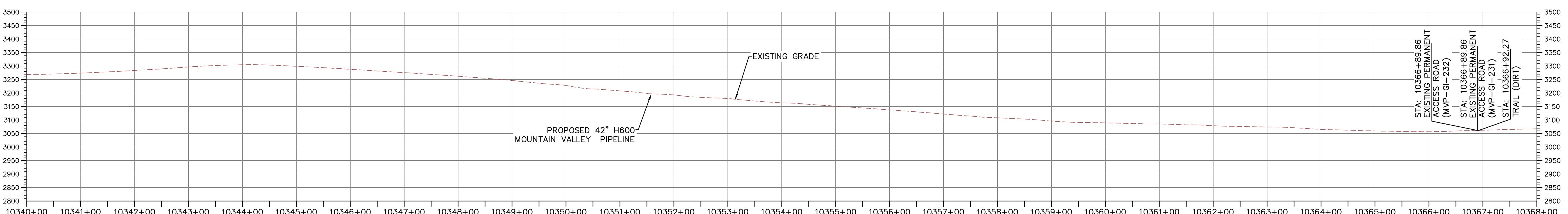
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DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.03EX OF 12.34EX



**PLAN**  
SCALE: 1" = 100'

100 0 100 200



**LEGEND**

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI – AGRICULTURAL LAND USE BOUNDARY

- AFM – ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

#### ACCESS ROAD LEGEND

- (2) WETLAND CROSSING
- (3) STREAM CROSSING

**PROFILE**  
HORIZONTAL SCALE:  
SCALE: 1" = 100'  
100 0 100 200  
VERTICAL SCALE:  
SCALE: 1" = 200'  
200 0 200 400

#### NOTES:

- TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
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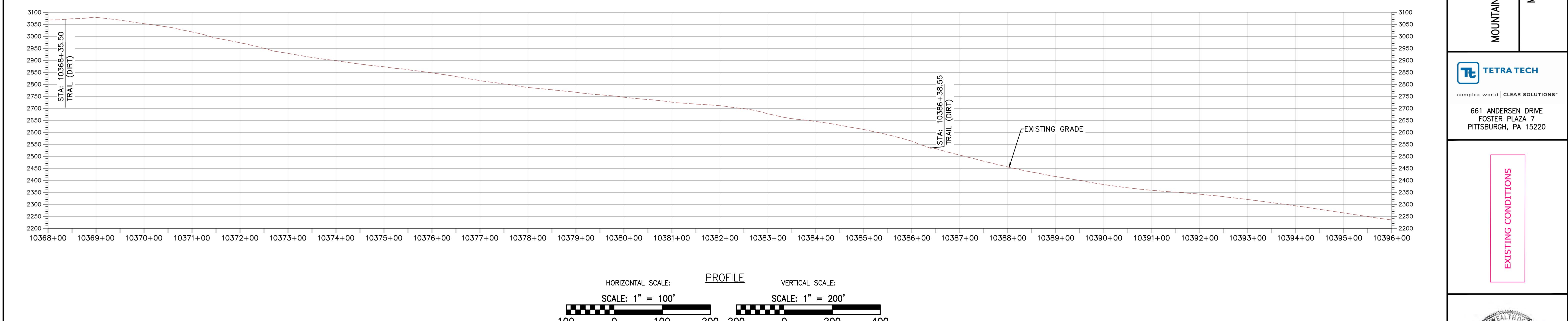
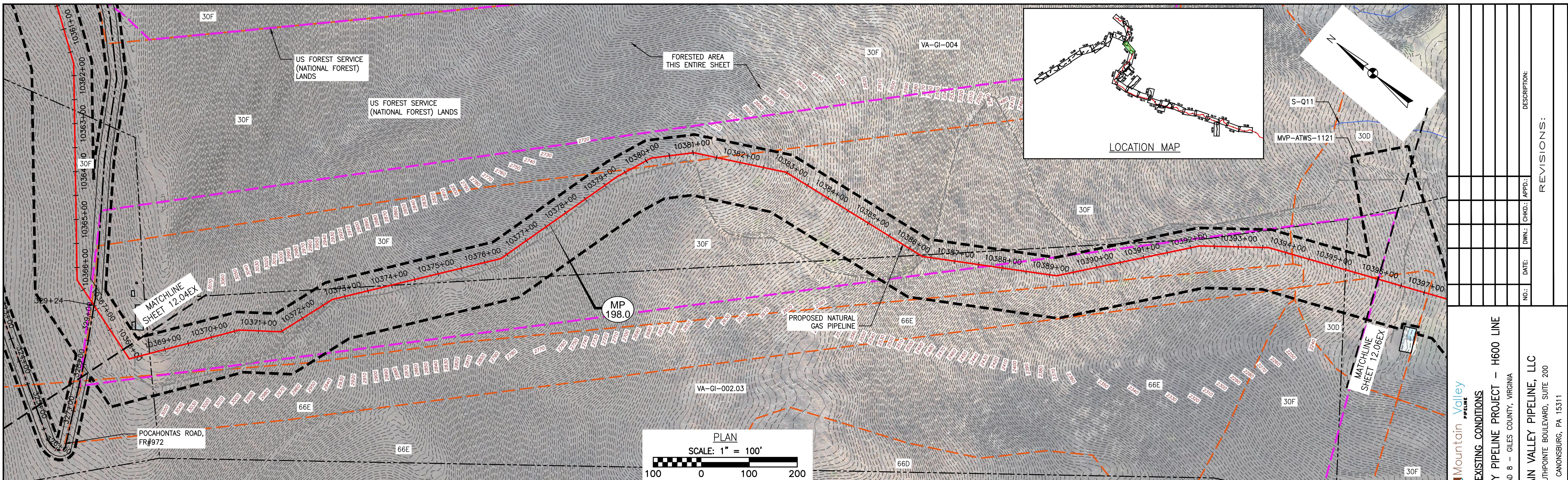
**TETRA TECH**

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661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.04EX OF 12.34EX



#### LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI - AGRICULTURAL LAND USE BOUNDARY
- AFM - ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

#### ACCESS ROAD LEGEND

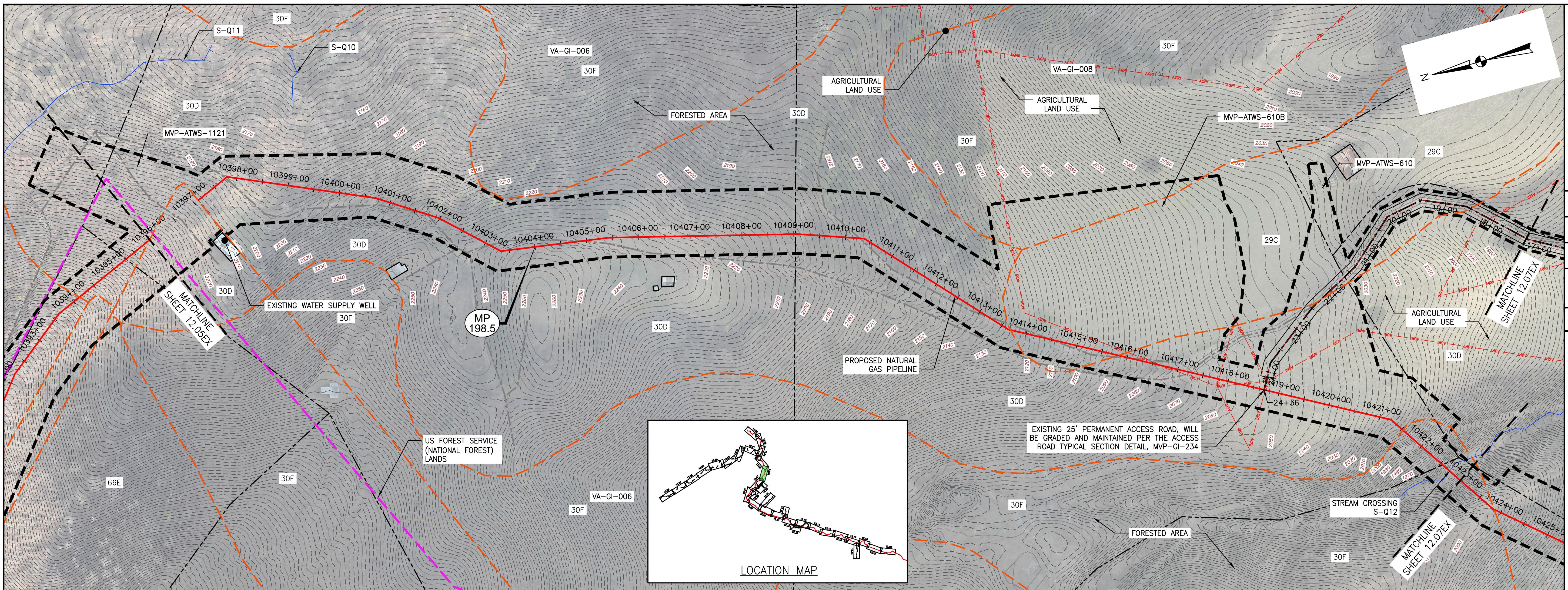
- (2) WETLAND CROSSING
- (3) STREAM CROSSING

#### NOTES:

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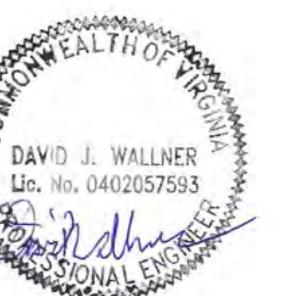


DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.05EX OF 12.34EX



**Mountain Valley Pipeline**  
**EXISTING CONDITIONS**  
TETRA TECH  
complex world | CLEAR SOLUTIONS™  
661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

#### EXISTING CONDITIONS

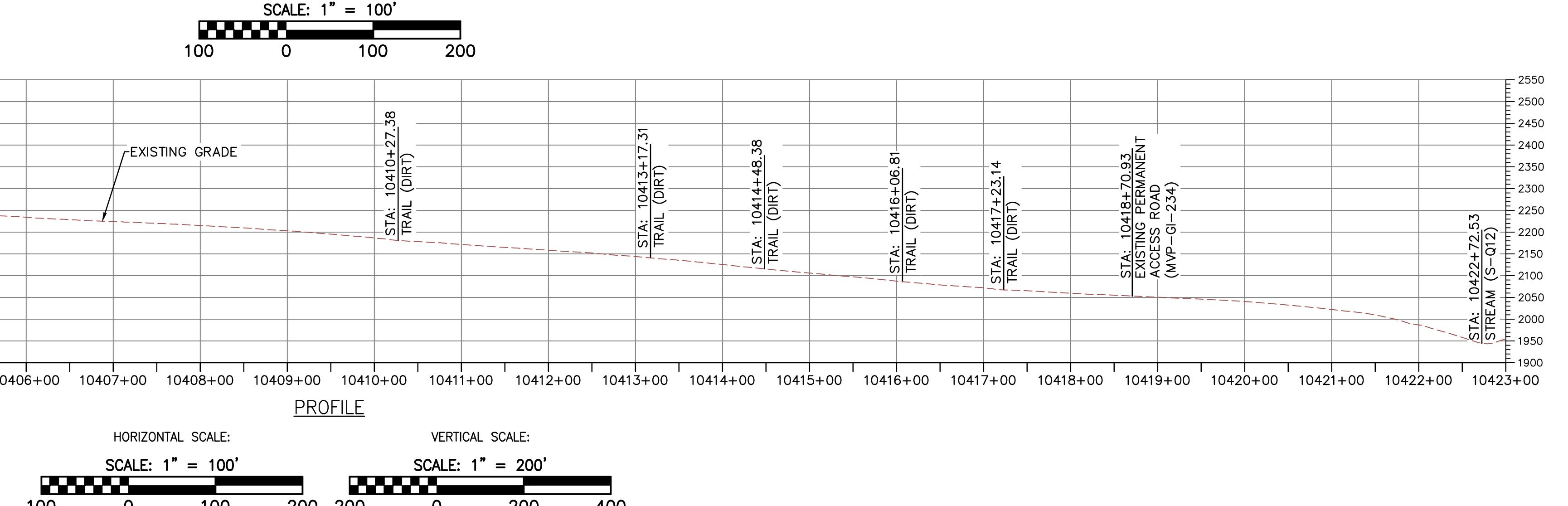


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DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	3/1/2016
SCALE:	AS SHOWN
REVISION:	

SHT. NO. 12.06EX OF 12.34EX

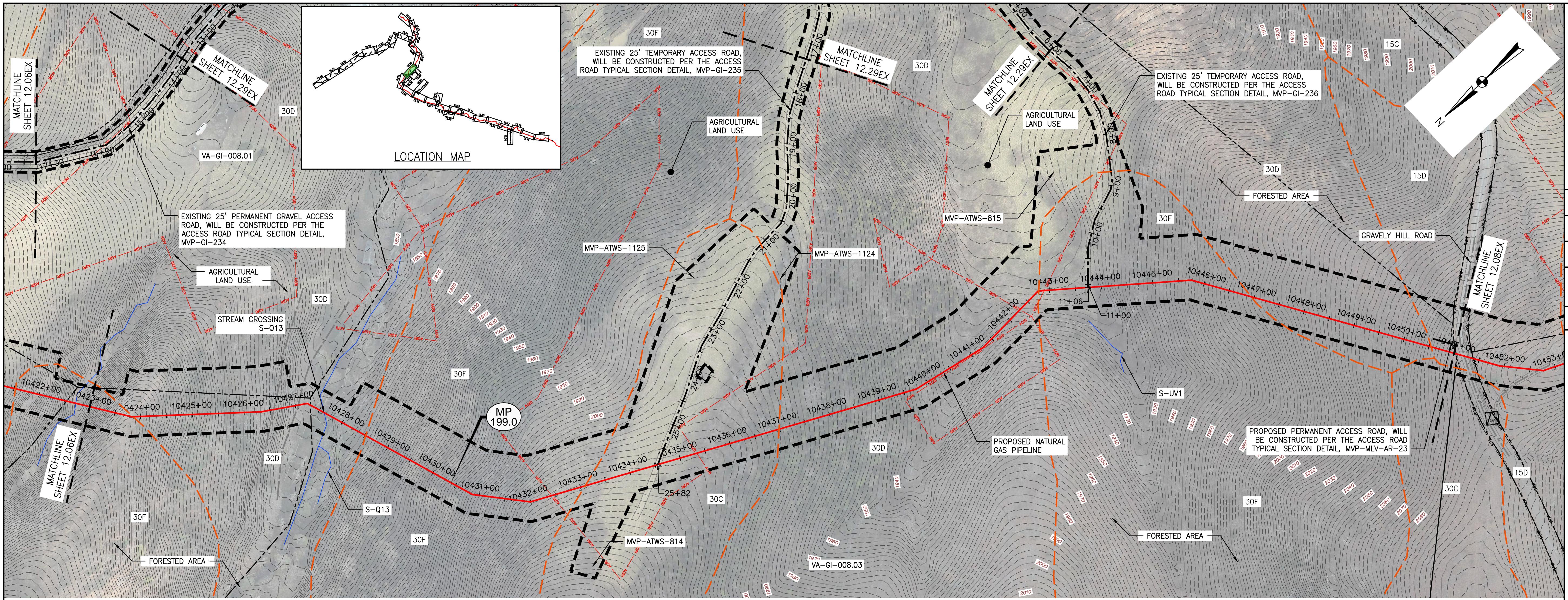


#### LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI — AGRICULTURAL LAND USE
- AFM — ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- ANST — ANST
- POND
- WETLAND

#### ACCESS ROAD LEGEND

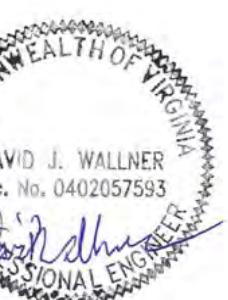
- (2) WETLAND CROSSING
- (3) STREAM CROSSING



REVISIONS:			
NO.:	DATE:		
CHKD:	DWN:		
APPD:	DESCRIPTION:		

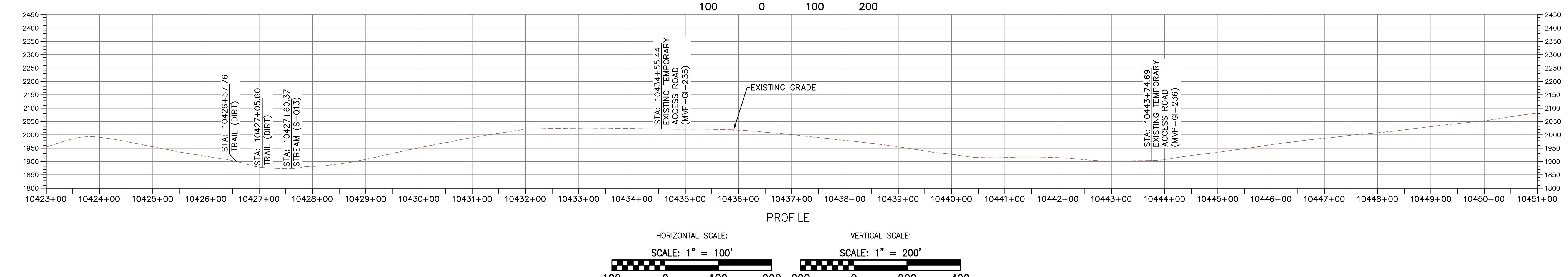
**TETRA TECH**  
complex world | CLEAR SOLUTIONS™  
661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



**NOTES:**

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**LEGEND**

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- PROPOSED PIPELINE
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- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI - AGRICULTURAL LAND USE

— AFM — AFM — ACID FORMING MATERIAL

— EXISTING SOIL BOUNDARY

— EXISTING PROPERTY LINE

— EXISTING STATE LINE

— EXISTING COUNTY LINE

— EXISTING ROAD

**ACCESS ROAD LEGEND**

(2) WETLAND CROSSING

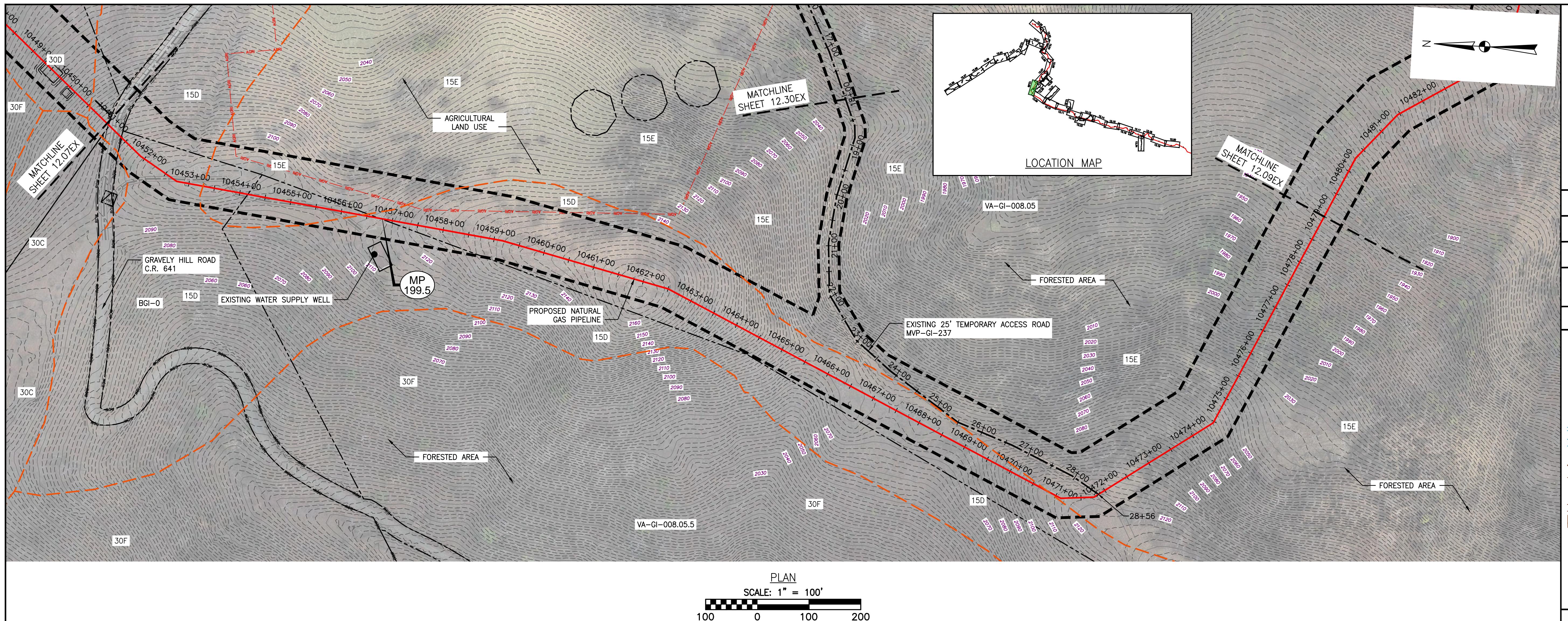
POND

WETLAND

(3)

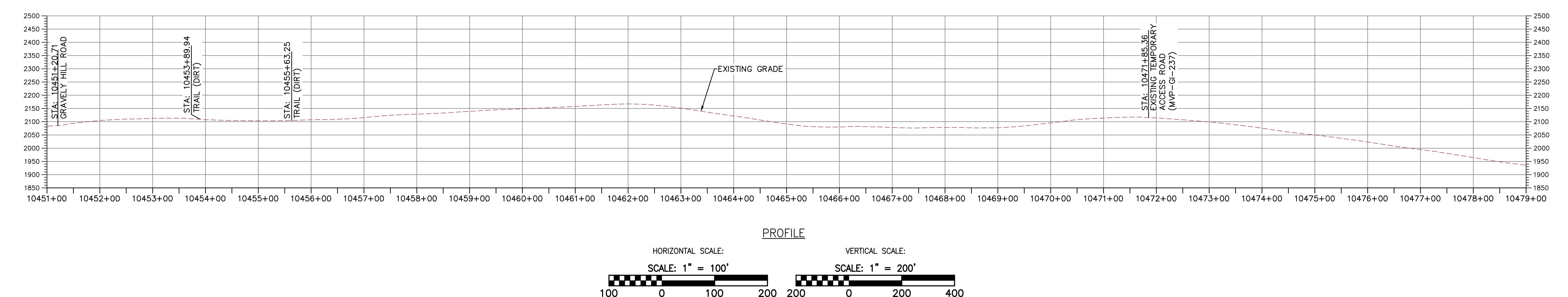
STREAM CROSSING

DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.07EX OF 12.34EX



Mountain Valley Pipeline		EXISTING CONDITIONS	
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE			
SPREAD 8 – GILES COUNTY, VIRGINIA			
MOUNTAIN VALLEY PIPELINE, LLC			
555 SOUTHPOINTE BOULEVARD, SUITE 200 CANONSBURG, PA 15331			
NO.:	DATE:	CHKD.:	APP'D.:
DESCRIPTION: REVISIONS:			

<b>TETRA TECH</b> complex world   CLEAR SOLUTIONS™ 661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220
EXISTING CONDITIONS



**LEGEND**

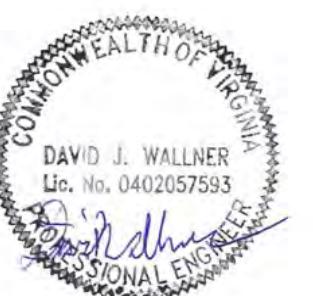
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRi — AGRi — AGRICULTURAL LAND USE BOUNDARY
- AFM — AFM — ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- WETLAND CROSSING
- POND
- WETLAND

#### ACCESS ROAD LEGEND

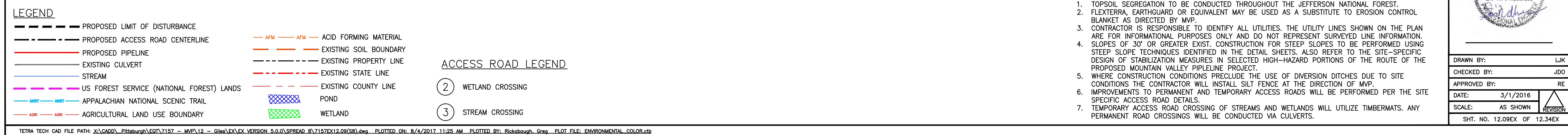
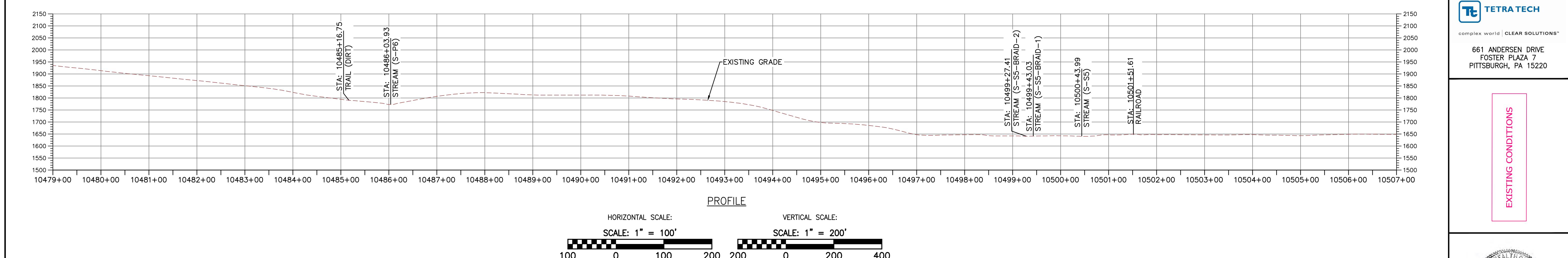
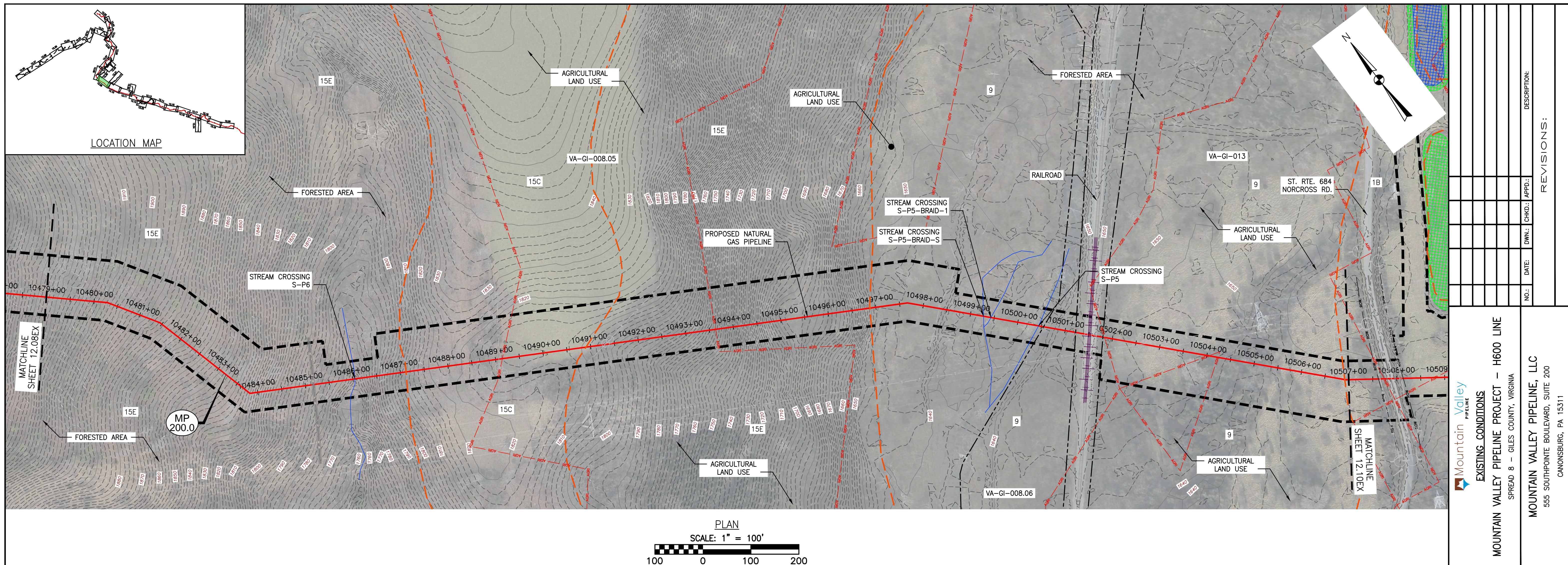
- (2) WETLAND CROSSING
- (3) STREAM CROSSING

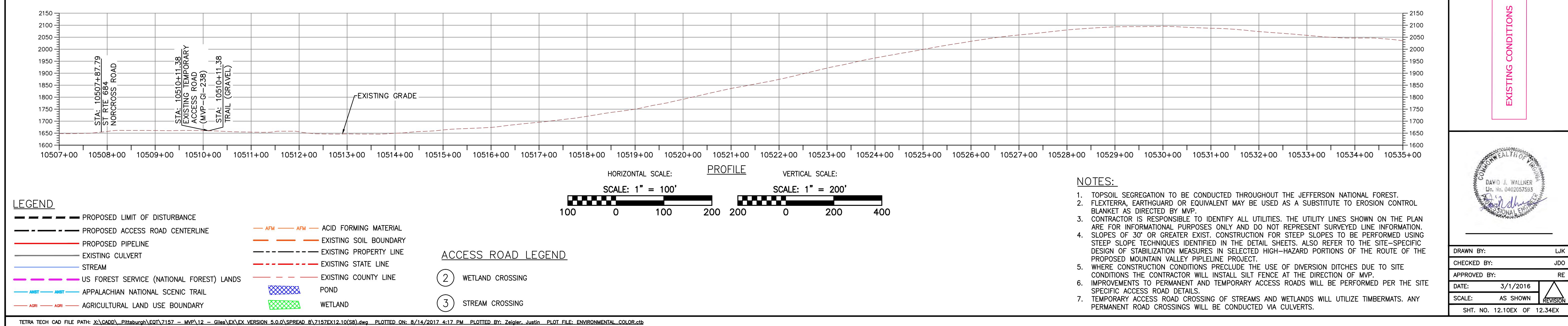
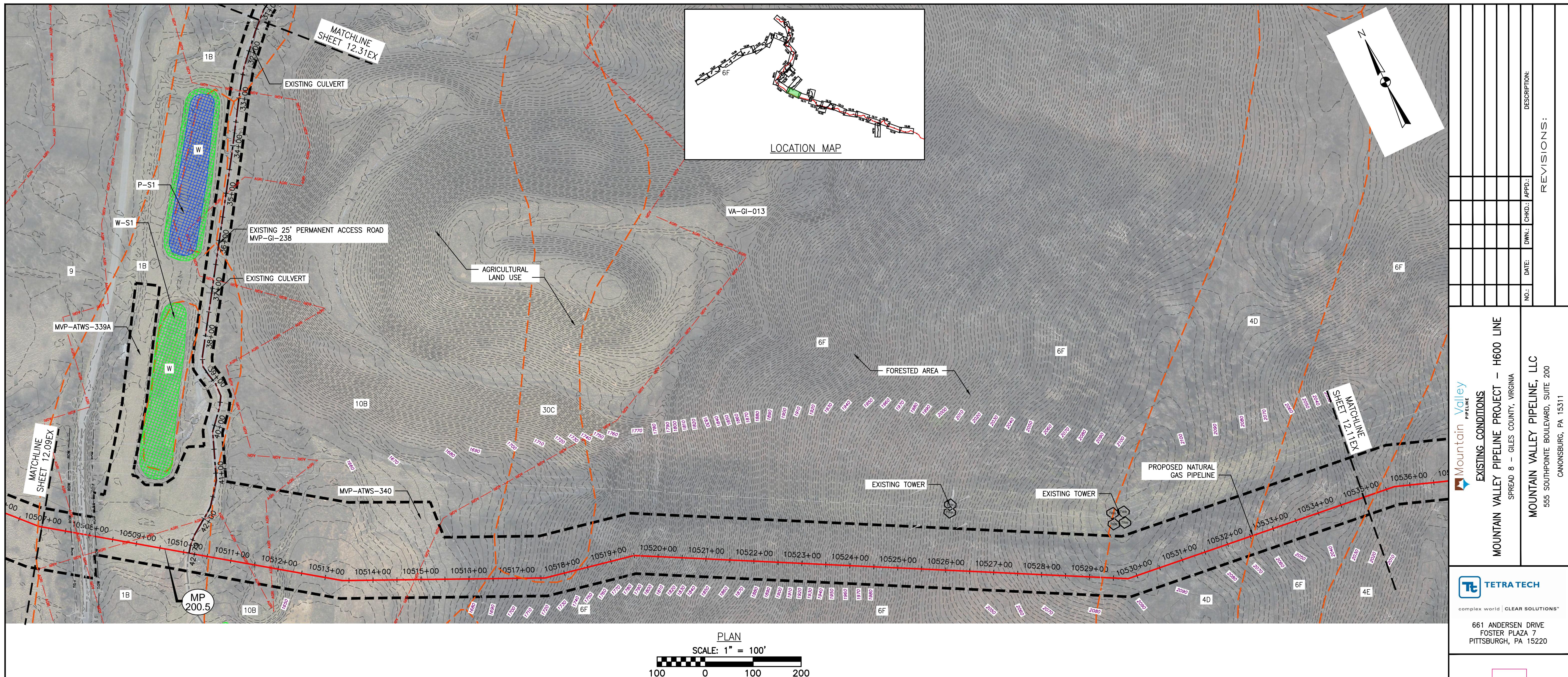
#### NOTES:

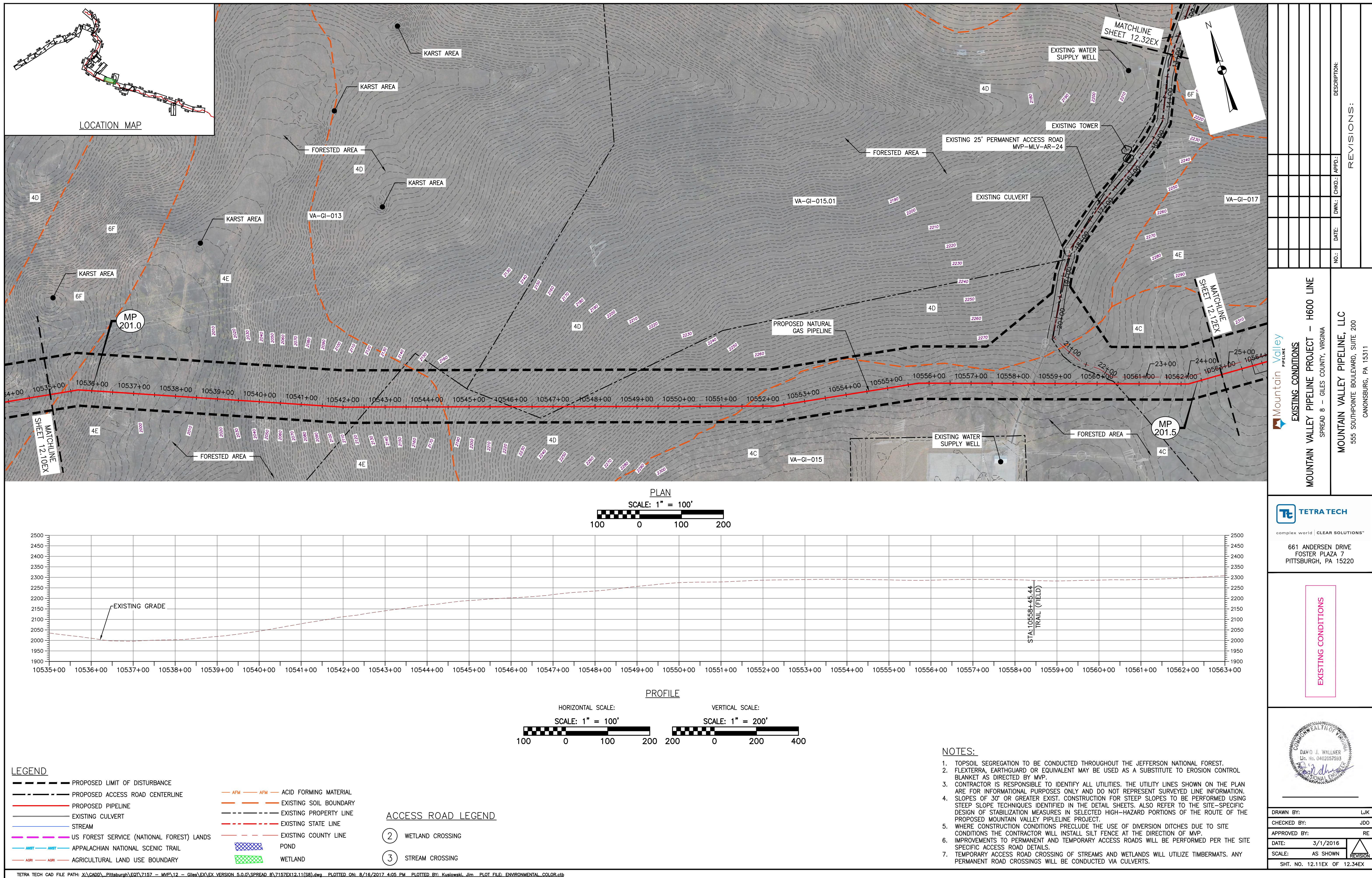
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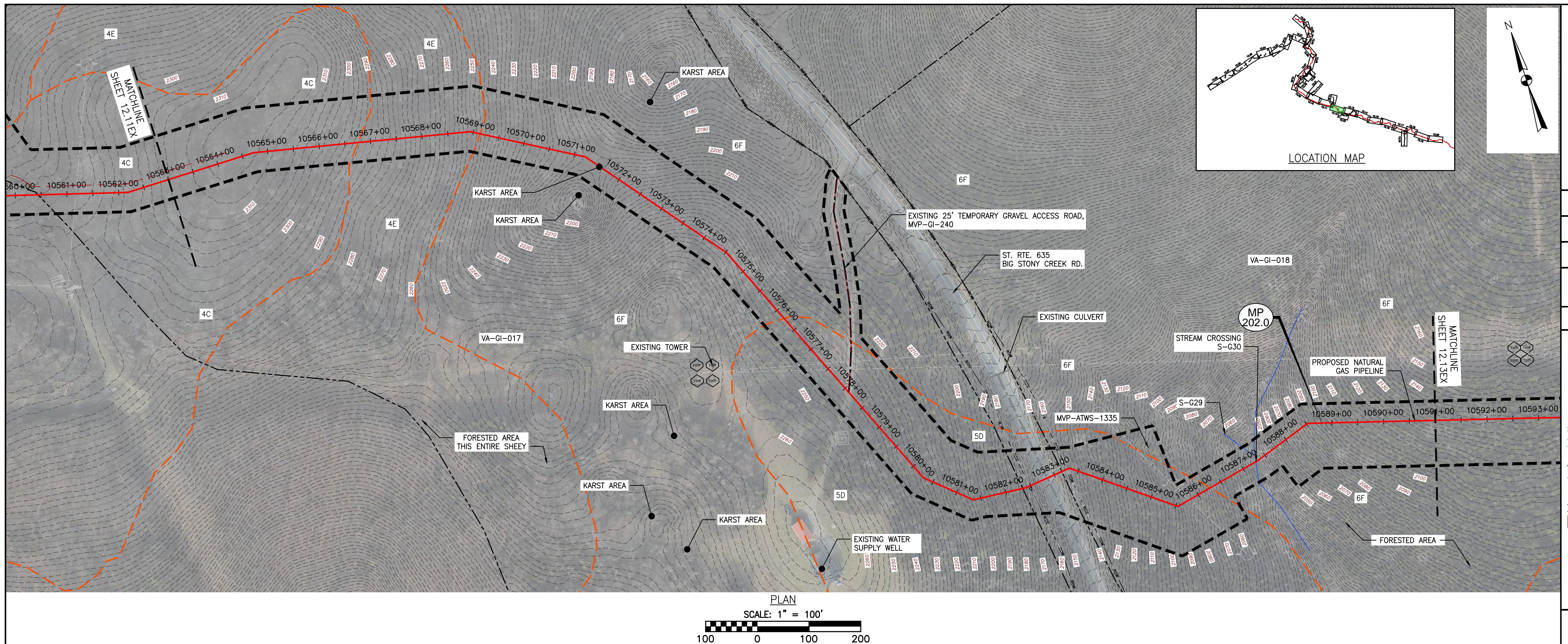


DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.08EX OF 12.34EX









REVISIONS:	
NO.:	DATE:
CHKD:	DWN:
APPD:	
DESCRIPTION:	

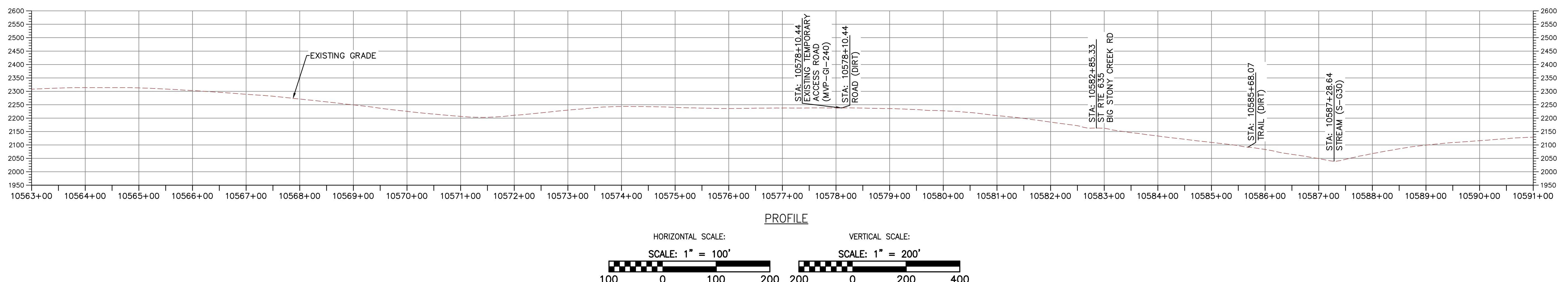
**MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE**  
SPREAD 8 – GILES COUNTY, VIRGINIA  
MOUNTAIN VALLEY PIPELINE, LLC  
555 SOUTHPOINTE BOULEVARD, SUITE 200  
CANONSBURG, PA 15331

**TETRA TECH**  
complex world | CLEAR SOLUTIONS™  
661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.12EX OF 12.34EX



**LEGEND**

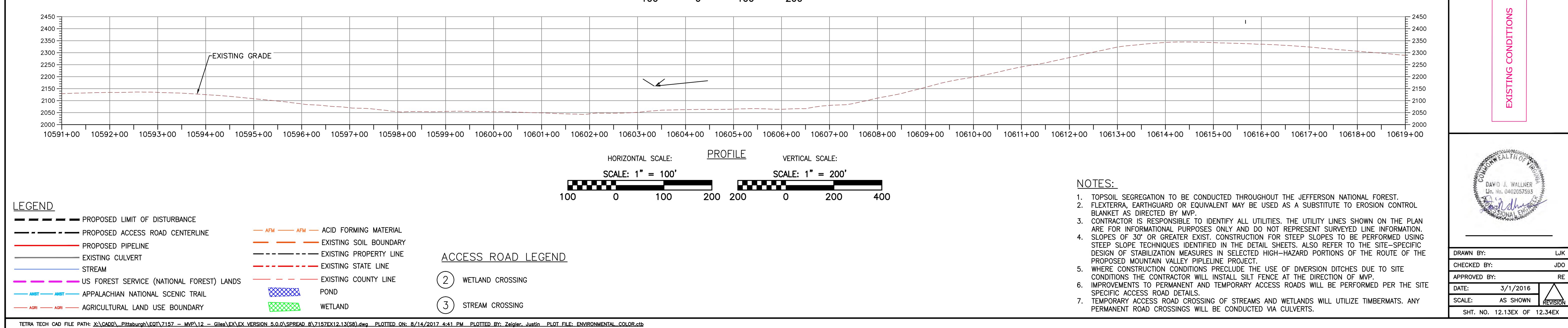
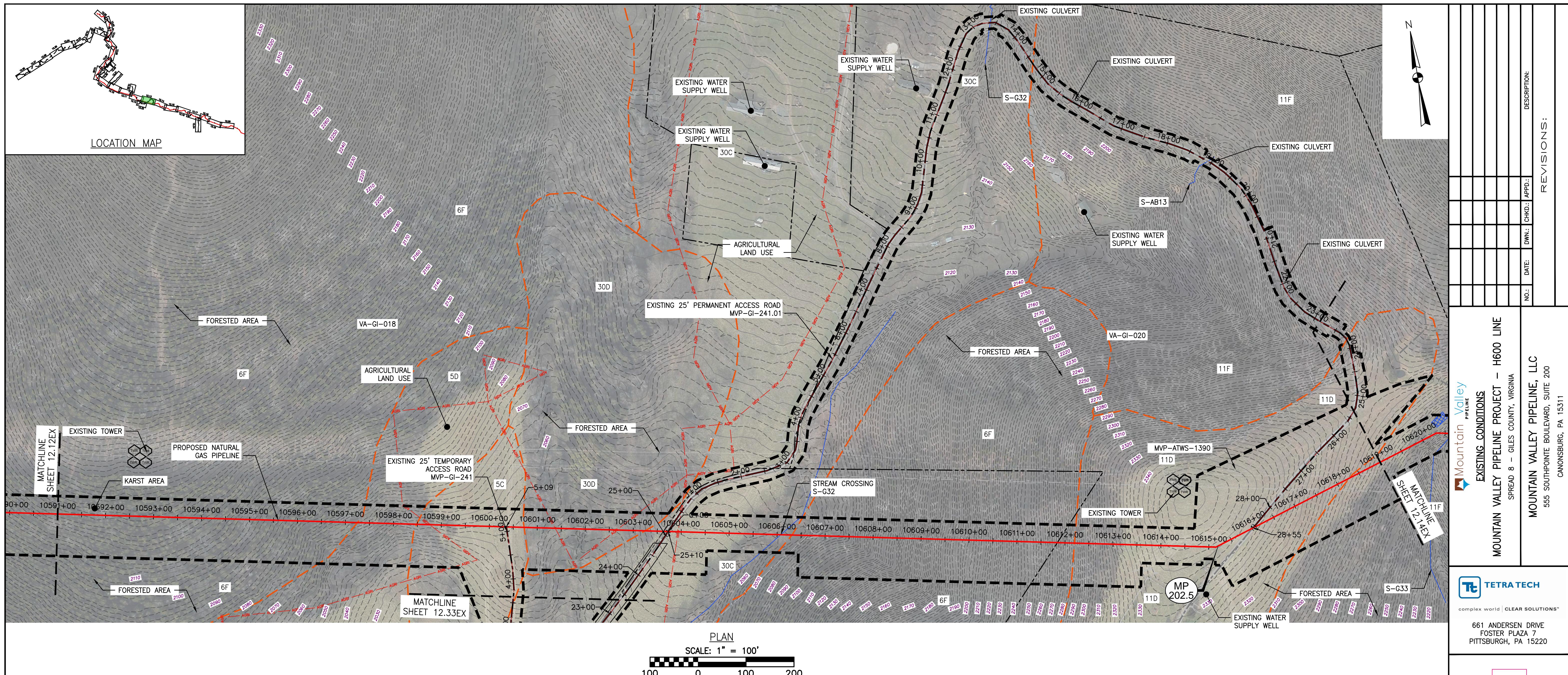
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRICULTURAL LAND USE BOUNDARY
- AFM — AFM — ACID FORMING MATERIAL
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- POND
- WETLAND

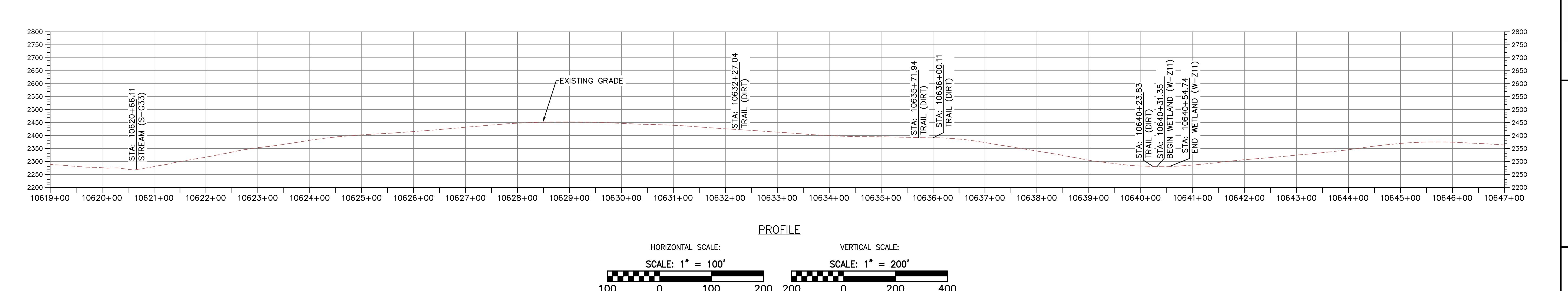
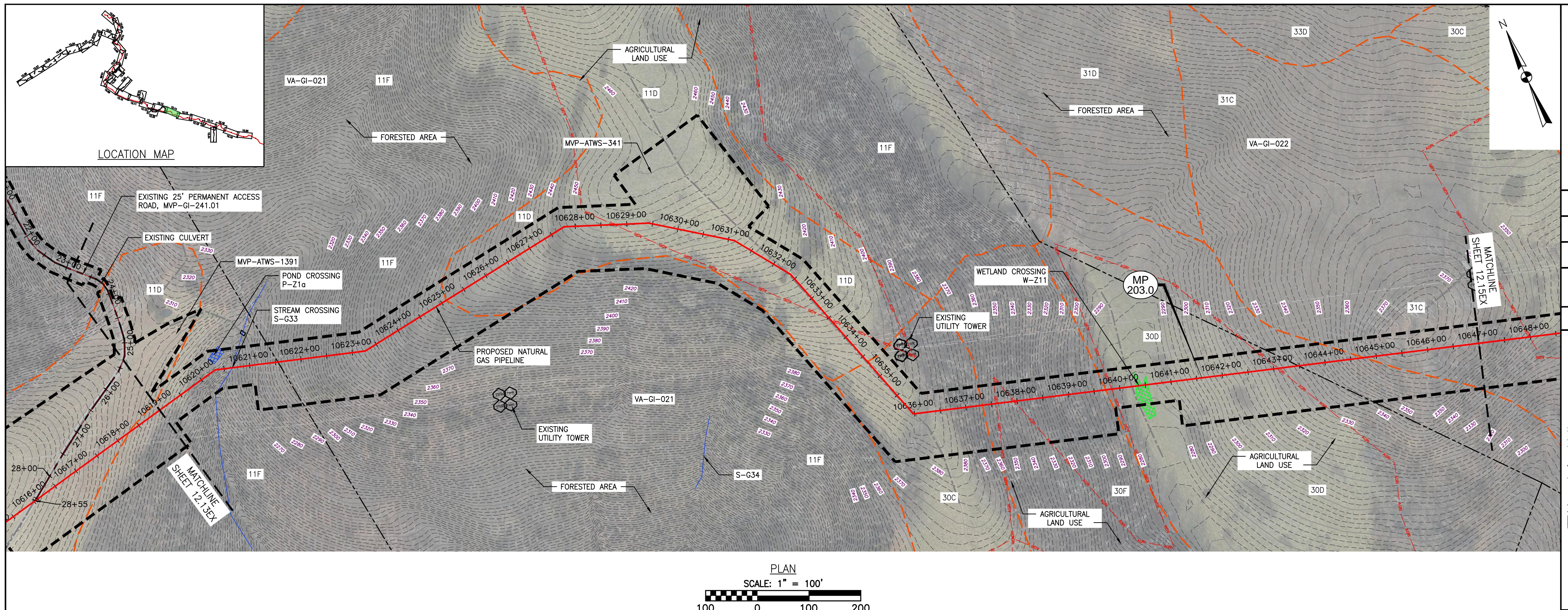
**ACCESS ROAD LEGEND**

- (2) WETLAND CROSSING
- (3) STREAM CROSSING

**NOTES:**

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**LEGEND**

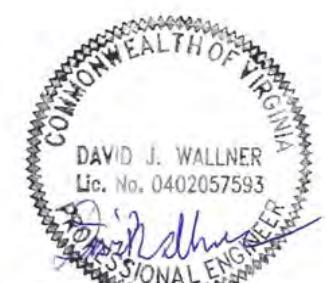
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI - AGRICULTURAL LAND USE
- AFM - ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

**ACCESS ROAD LEGEND**

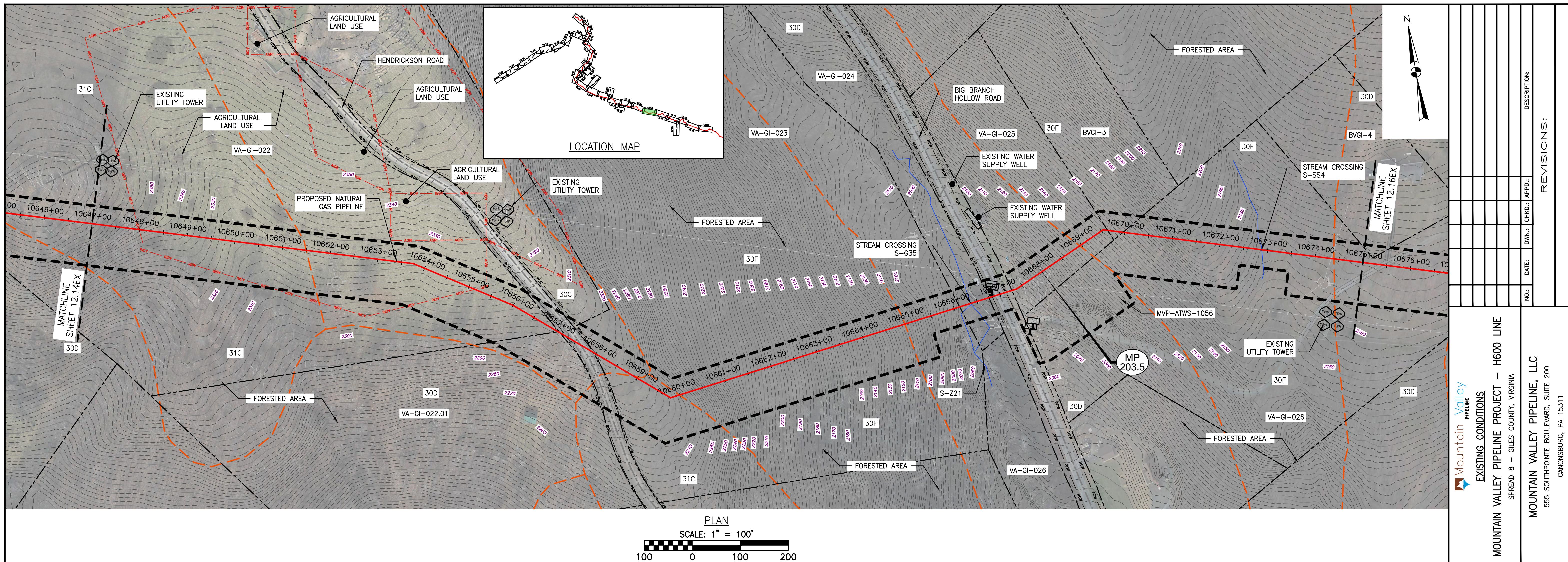
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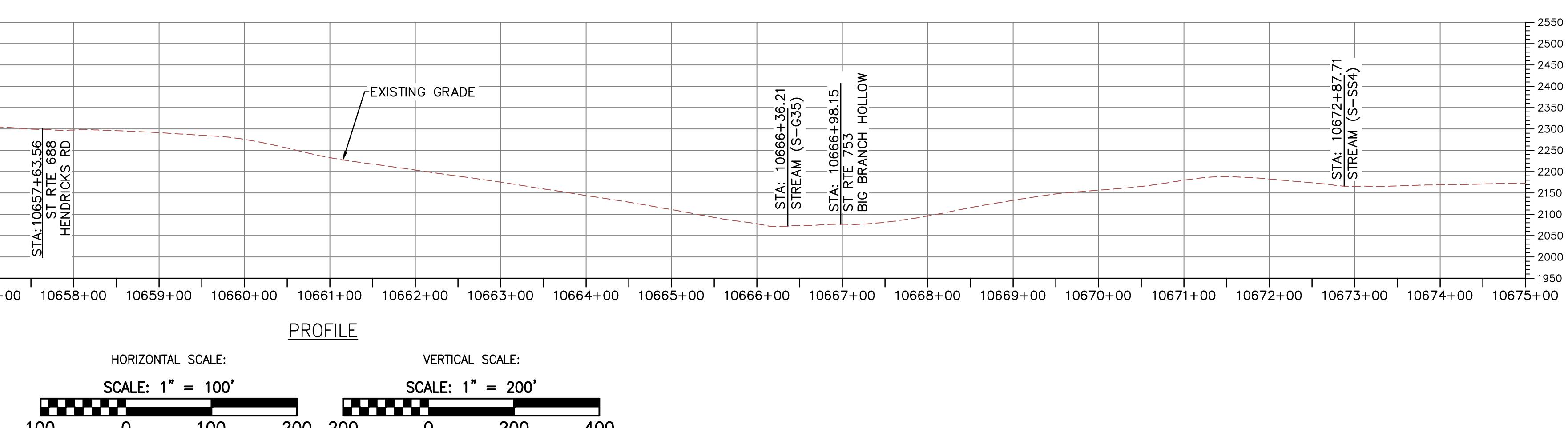


DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.14EX OF 12.34EX



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PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



PROPOSED LIMIT OF DISTURBANCE
PROPOSED ACCESS ROAD CENTERLINE
PROPOSED PIPELINE
EXISTING CULVERT
STREAM
US FOREST SERVICE (NATIONAL FOREST) LANDS
APPALACHIAN NATIONAL SCENIC TRAIL
AGRI - AGRICULTURAL LAND USE

AFM - ACID FORMING MATERIAL
EXISTING SOIL BOUNDARY
EXISTING PROPERTY LINE
EXISTING STATE LINE
EXISTING COUNTY LINE

WETLAND CROSSING
POND
WETLAND

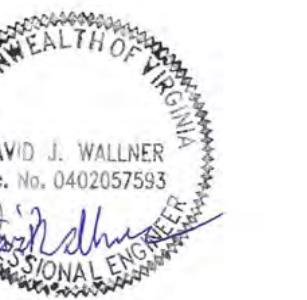
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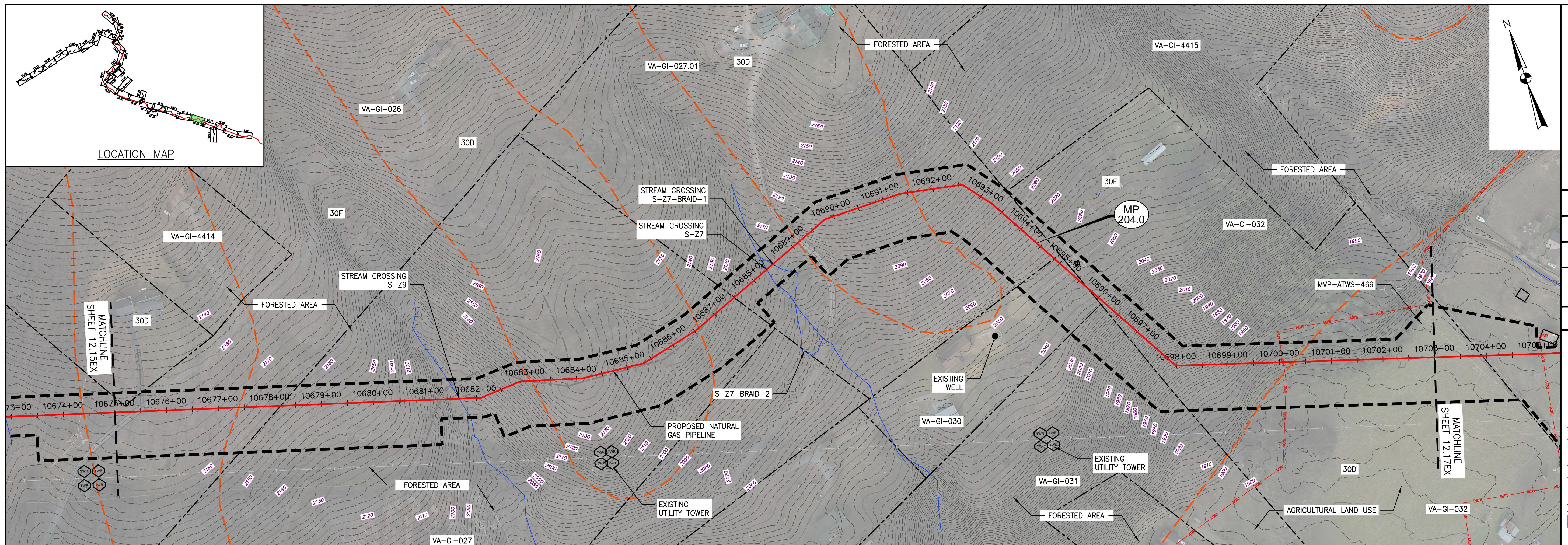
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**REVISIONS:**

**MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE**  
SPREAD 8 – GILES COUNTY, VIRGINIA  
555 SOUTHPOINTE BOULEVARD, SUITE 200  
CANONSBURG, PA 15311



DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.15EX OF 12.34EX

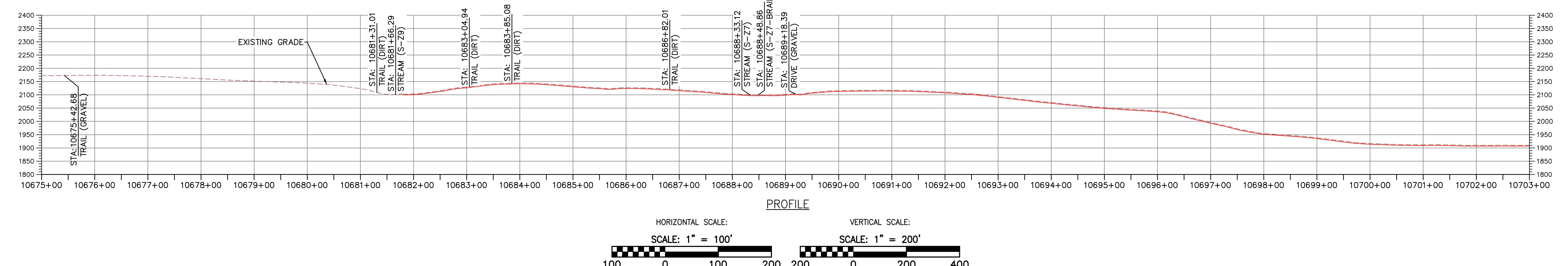
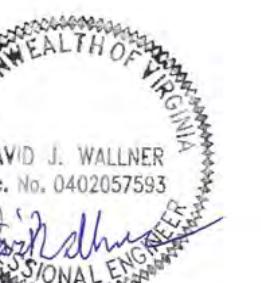


REVISIONS:			
NO.:	DATE:		
DWN.:	CHKD.:		
APPD.:	DESCRIPTION:		

**MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE**  
SPREAD 8 – GILES COUNTY, VIRGINIA  
MOUNTAIN VALLEY PIPELINE, LLC  
555 SOUTHPOINTE BOULEVARD, SUITE 200  
CANONSBURG, PA 15331

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**EXISTING CONDITIONS**



**LEGEND**

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRi — AGRi — AGRICULTURAL LAND USE BOUNDARY

- AFM — AFM — ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

**ACCESS ROAD LEGEND**

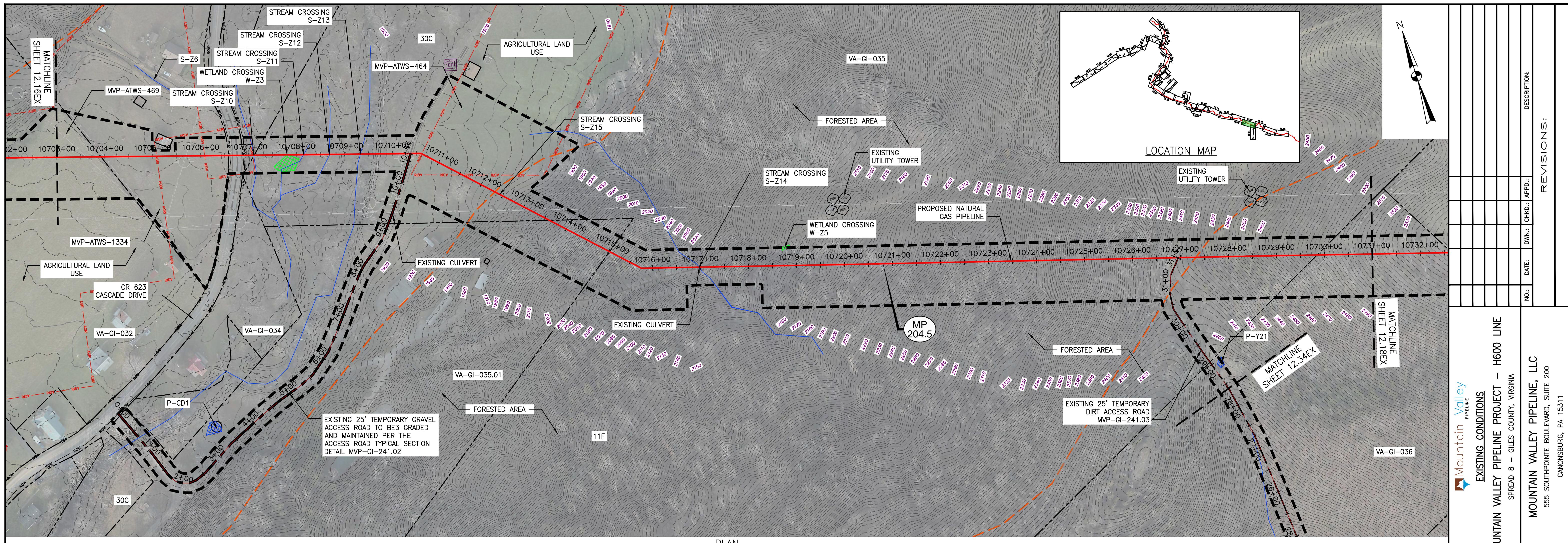
- (2) WETLAND CROSSING
- (3) STREAM CROSSING

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DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	3/1/2016
SCALE:	AS SHOWN
REVISION:	

SHT. NO. 12.16EX OF 12.34EX



**MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE**  
SPREAD 8 – GILES COUNTY, VIRGINIA  
**MOUNTAIN VALLEY PIPELINE, LLC**  
555 SOUTHPOINTE BOULEVARD, SUITE 200  
CANONSBURG, PA 15331

Mountain Valley Pipeline  
EXISTING CONDITIONS

Matchline Sheet 12.18EX

Matchline Sheet 12.34EX

VA-GI-036

VA-GI-035

VA-GI-034

VA-GI-032

VA-GI-035.01

VA-GI-035.02

VA-GI-035.03

VA-GI-035.04

VA-GI-035.05

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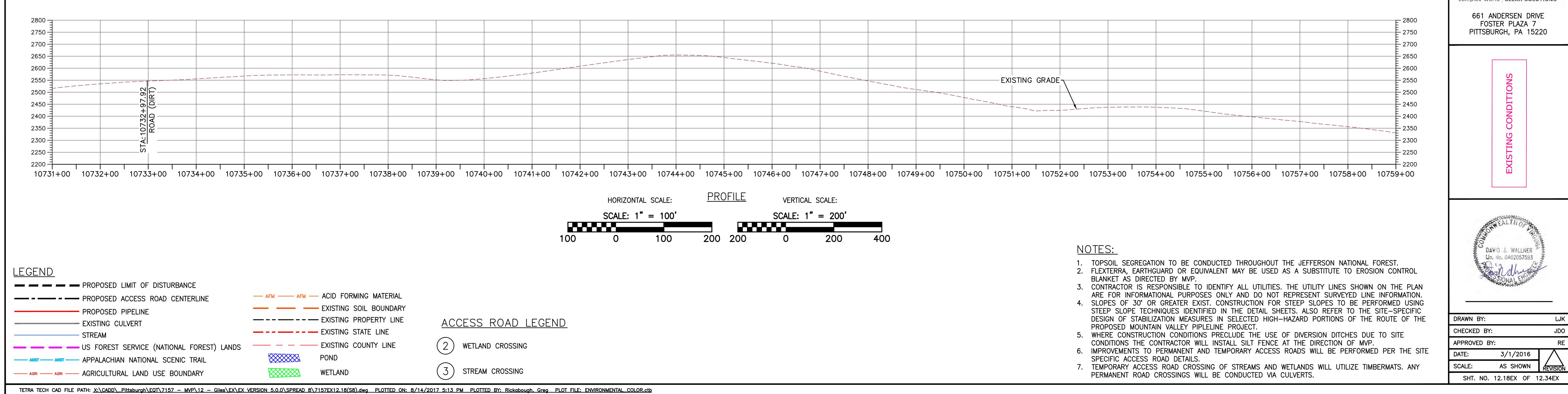
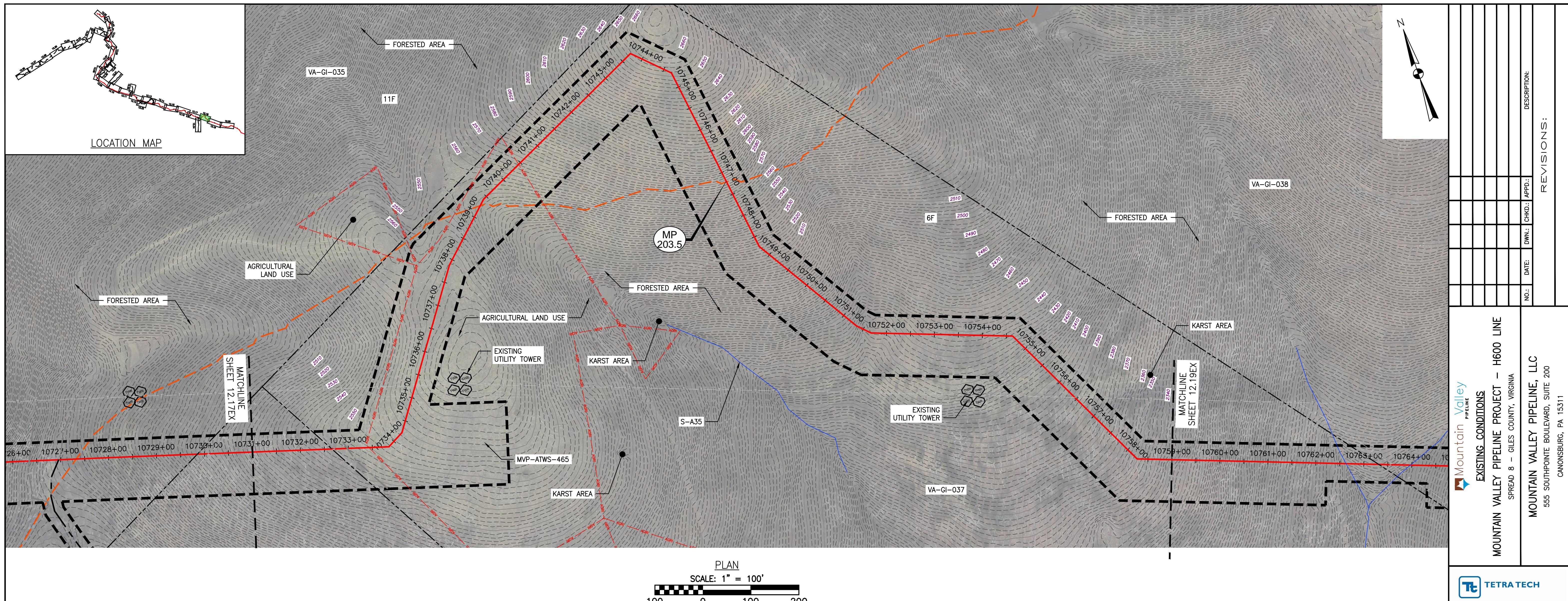
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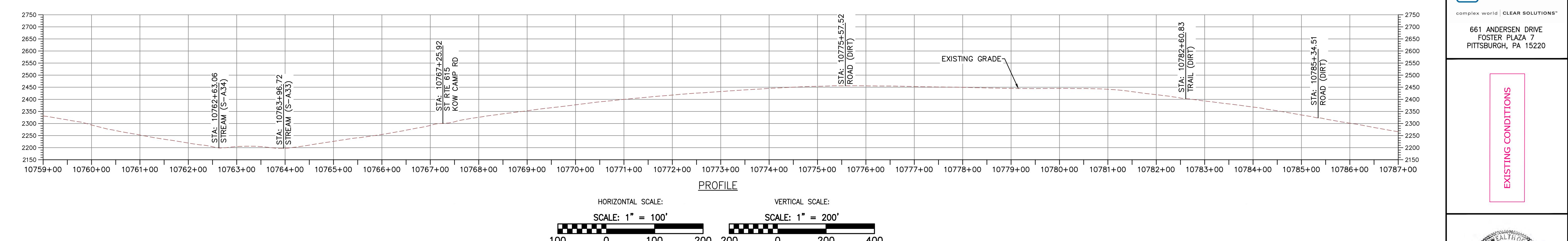
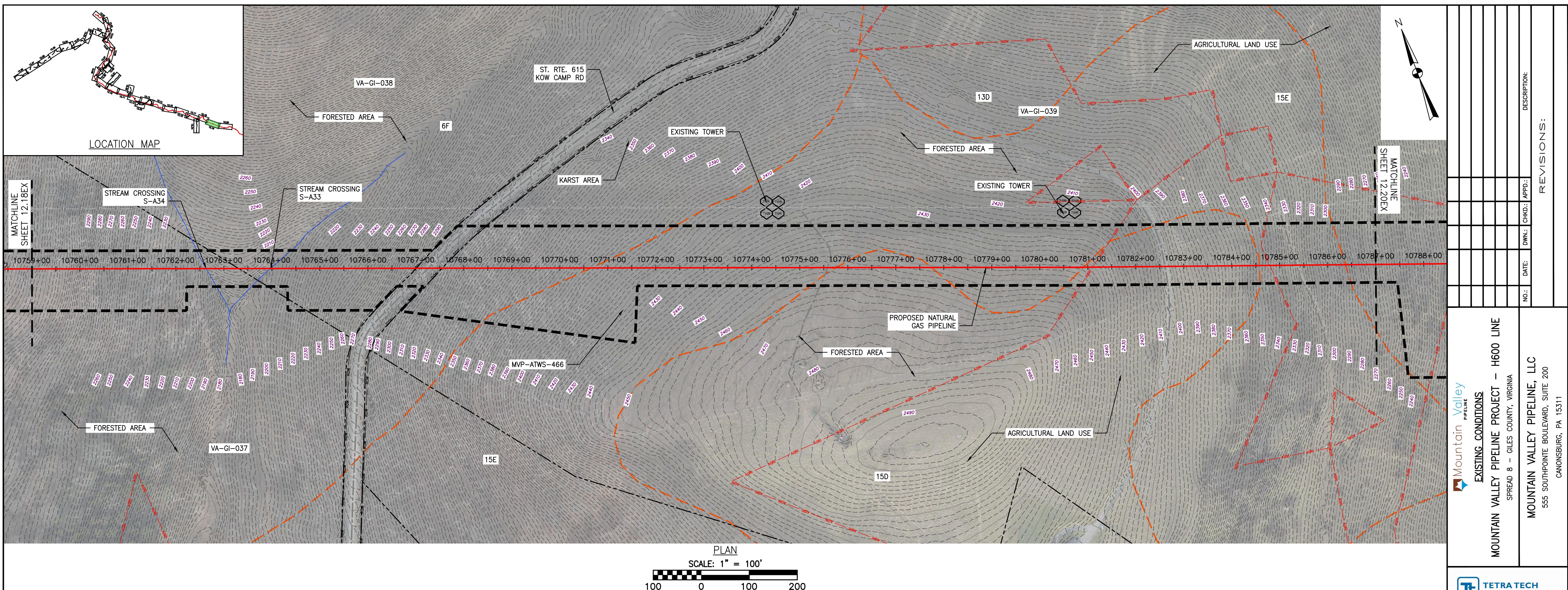
VA-GI-035.157

VA-GI-035.158

VA-GI-035.159

VA-GI-035.160





**LEGEND**

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI – AGRICULTURAL LAND USE

— AFM — AFM — ACID FORMING MATERIAL  
— EXISTING SOIL BOUNDARY  
— EXISTING PROPERTY LINE  
— EXISTING STATE LINE  
— EXISTING COUNTY LINE  
② WETLAND CROSSING  
③ STREAM CROSSING

**ACCESS ROAD LEGEND**

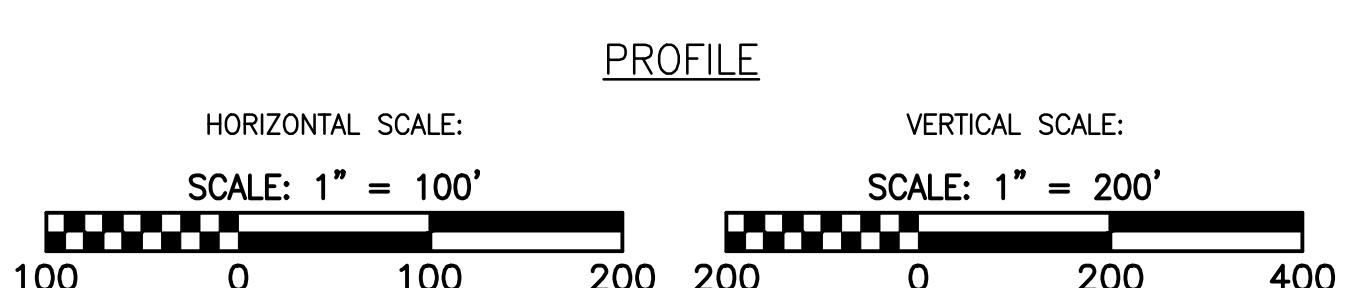
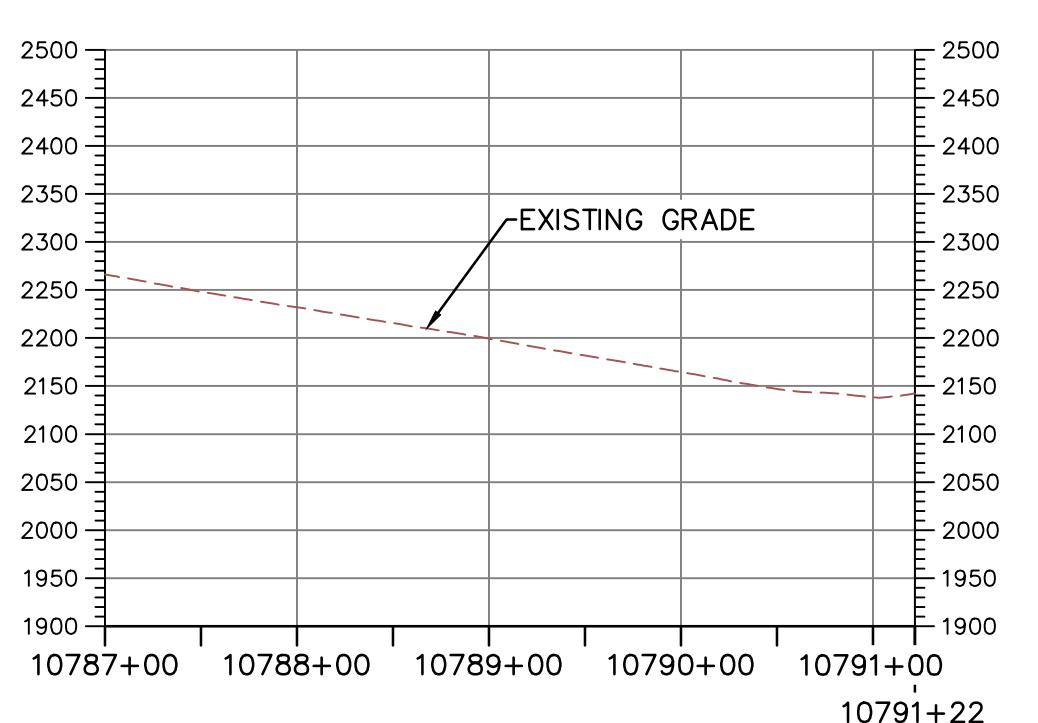
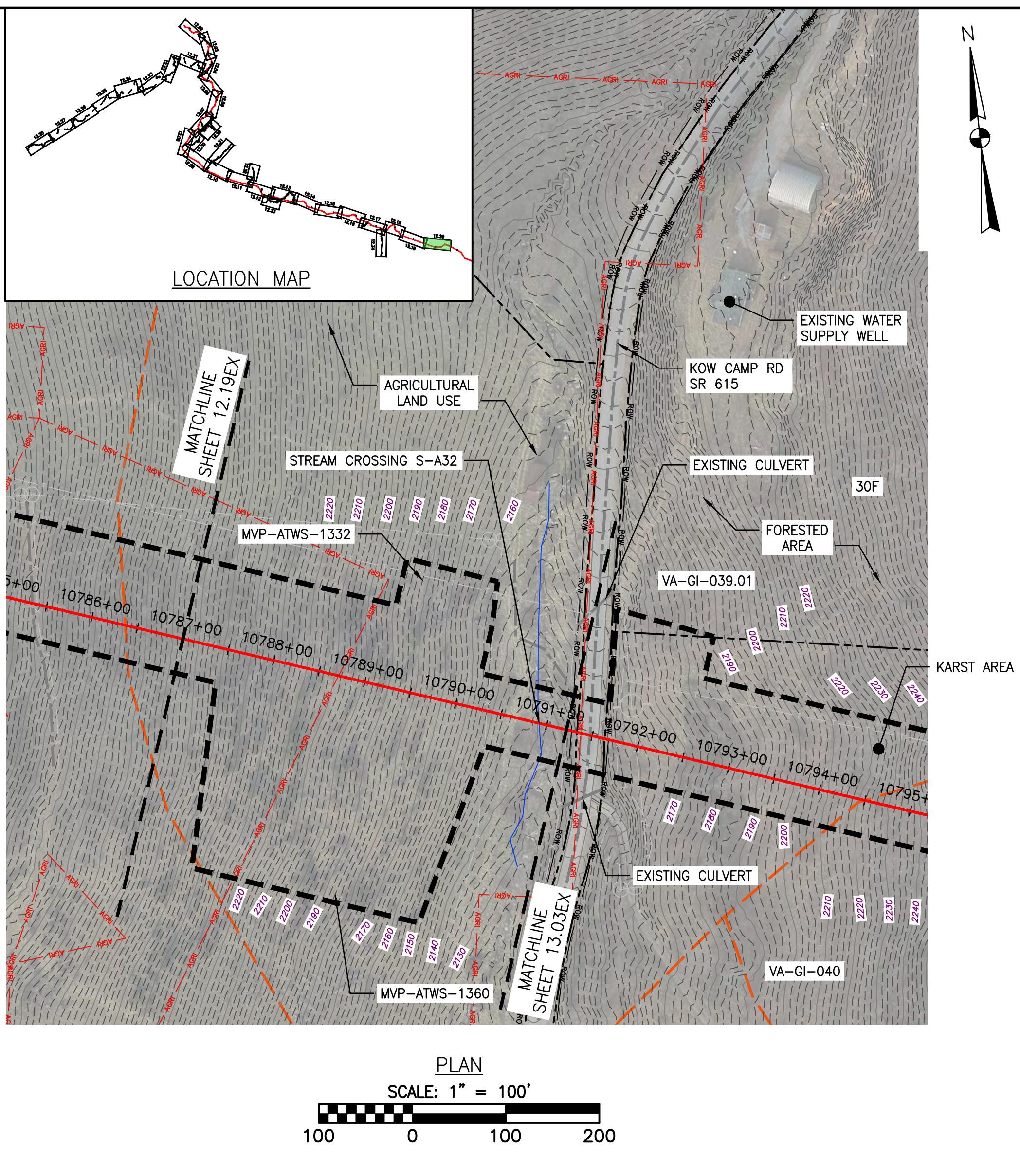
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(3) STREAM CROSSING

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DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.19EX OF 12.34EX



**LEGEND**

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- PROPOSED PIPELINE
- EXISTING CULVERT
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**ACCESS ROAD LEGEND**

(2) WETLAND CROSSING

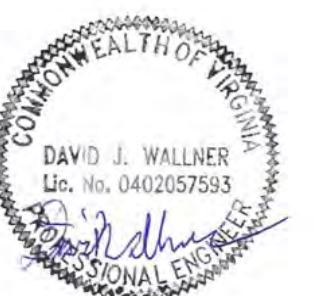
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**NOTES:**

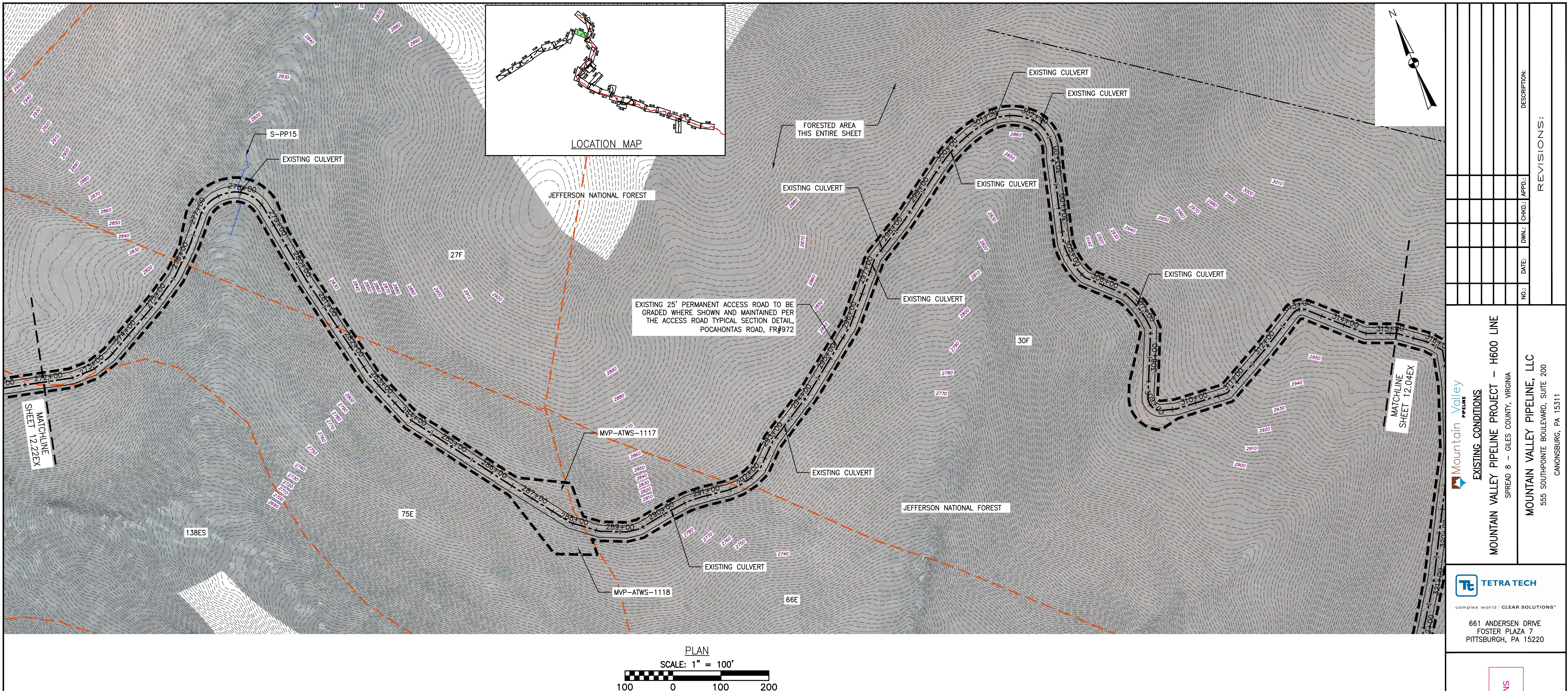
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FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



<b>Mountain Valley Pipeline</b>		<b>EXISTING CONDITIONS</b>	
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE		SPREAD 8 - GILES COUNTY, VIRGINIA	
MOUNTAIN VALLEY PIPELINE, LLC		555 SOUTHPOINTE BOULEVARD, SUITE 200 CANONSBURG, PA 15311	
NO.:	DATE:	CHECKD.:	APPROV.:
DESCRIPTION: REVISIONS:			



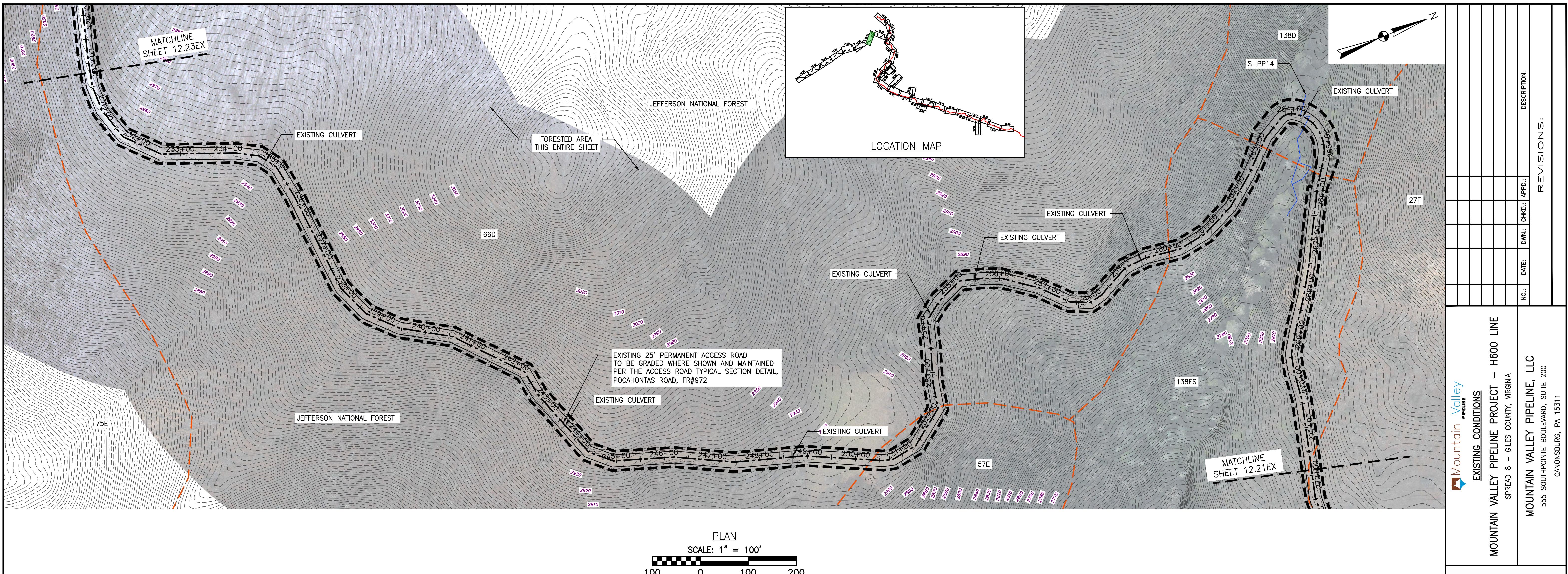
**LEGEND**

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI – AGRICULTURAL LAND USE BOUNDARY
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- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

**ACCESS ROAD LEGEND**

(2) WETLAND CROSSING

(3) STREAM CROSSING



**LEGEND**

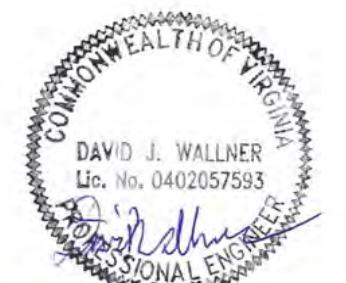
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- (3) STREAM CROSSING

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CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
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**Mountain Valley Pipeline**  
**EXISTING CONDITIONS**

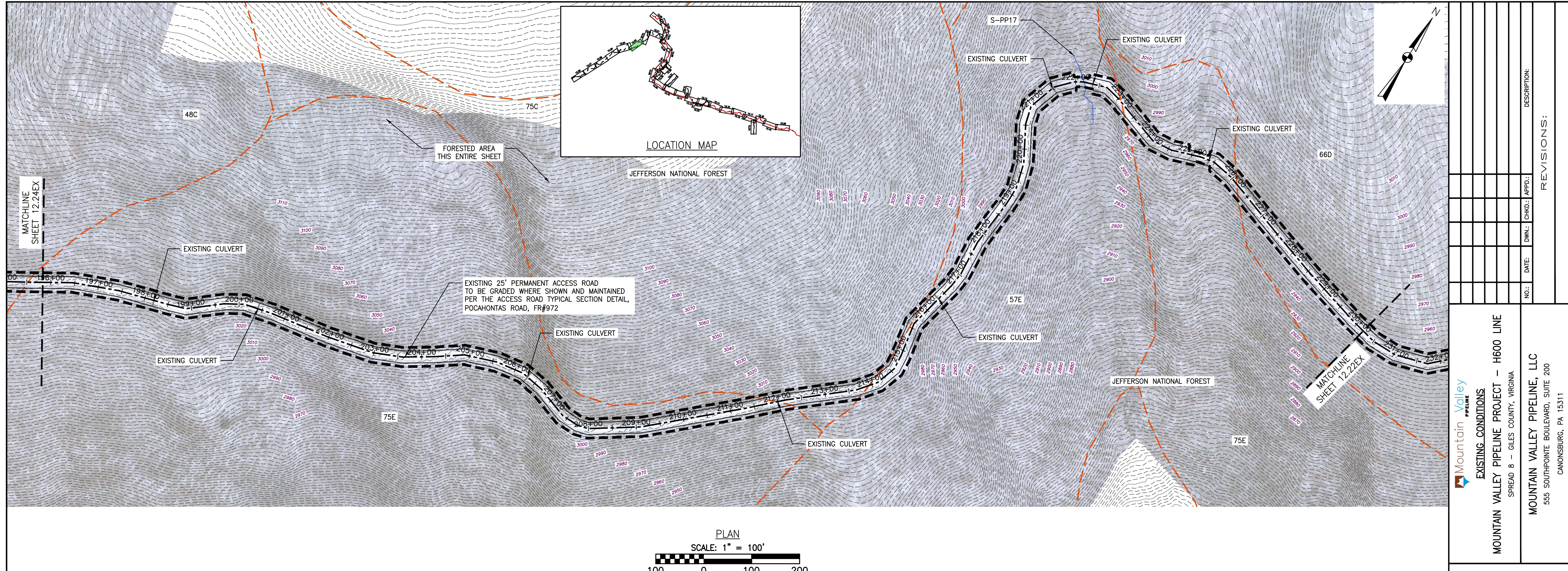
**MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE**  
SPREAD 8 - GILES COUNTY, VIRGINIA

**MOUNTAIN VALLEY PIPELINE, LLC**

555 SOUTHPOINTE BOULEVARD, SUITE 200  
CANONSBURG, PA 15311

**TETRA TECH**  
complex world | CLEAR SOLUTIONS™  
661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST)
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI AGRICULTURAL LAND USE BOUNDARY

### ACCESS ROAD LEGEND

- 2 WETLAND CROSS
  - 3 STREAM CROSS

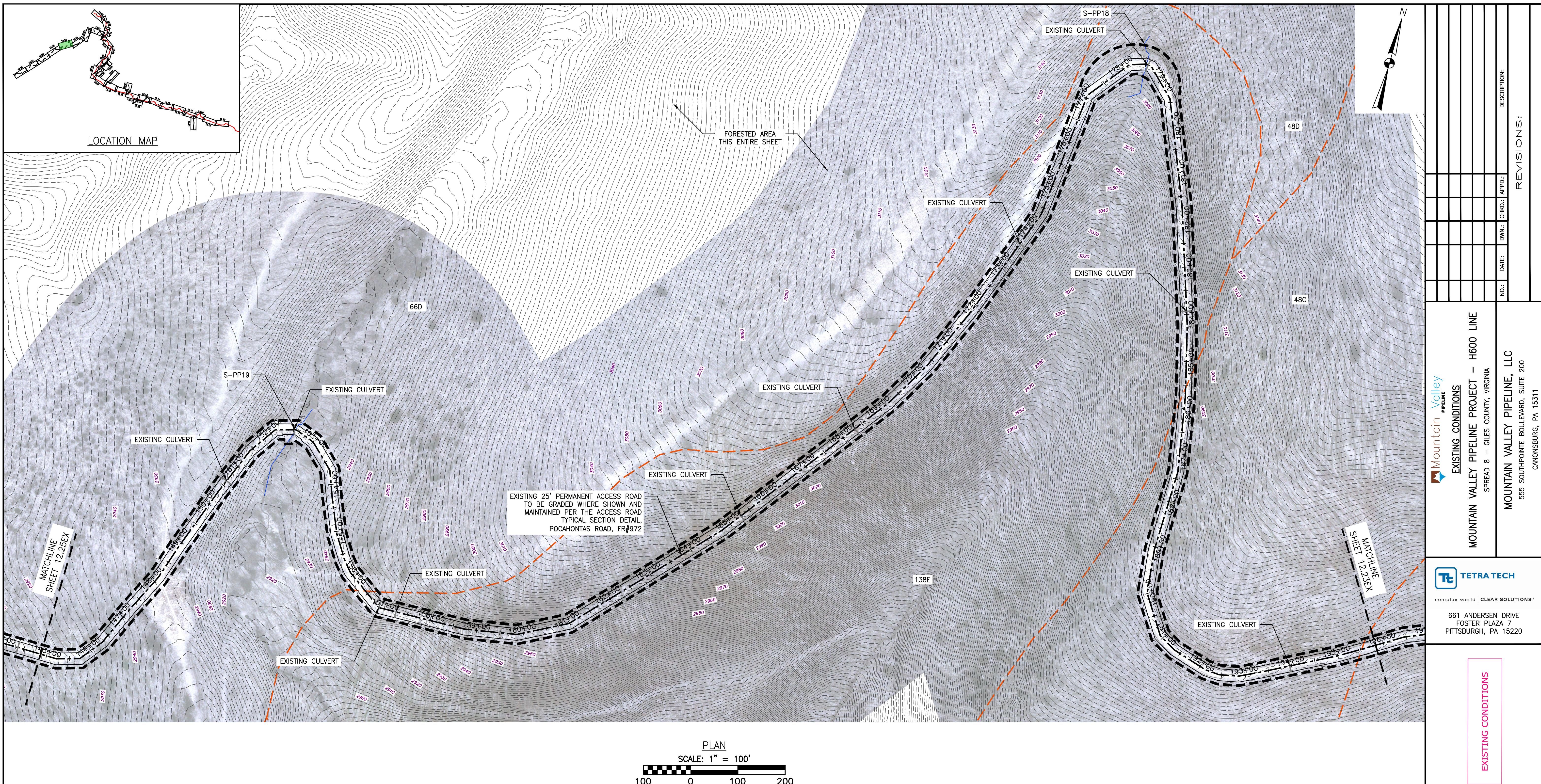
## NOTES.

- NOTES:

  1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
  2. FLEXTERRA, EARTHGARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
  3. 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.
  4. SLOPES OF 30° OR GREATER EXIST. CONSTRUCTION FOR STEEP SLOPES TO BE PERFORMED USING STEEP SLOPE TECHNIQUES IDENTIFIED IN THE DETAIL SHEETS. ALSO REFER TO THE SITE-SPECIFIC DESIGN OF STABILIZATION MEASURES IN SELECTED HIGH-HAZARD PORTIONS OF THE ROUTE OF THE PROPOSED MOUNTAIN VALLEY PIPELINE PROJECT.
  5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
  6. IMPROVEMENTS TO PERMANENT AND TEMPORARY ACCESS ROADS WILL BE PERFORMED PER THE SITE SPECIFIC ACCESS ROAD DETAILS.
  7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS.

A circular stamp with a decorative wavy outer border. The words "COMMONWEALTH OF VIRGINIA" are printed in a curved, bold font along the top and right edges. In the center, it says "DAVID J. WALLNER" on top and "Lic. No. 0402057593" on the bottom. Below the name, there is a handwritten signature that appears to read "David J. Wallner". At the very bottom, the words "PROFESSIONAL ENGINEER" are partially visible.

DRAWN BY:	LJ
CHECKED BY:	JD
APPROVED BY:	R
DATE:	3/1/2016
SCALE:	AS SHOWN
SHT. NO.	12.23EX OF 12.34EX

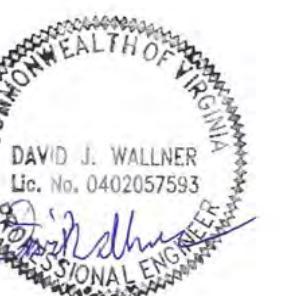


**LEGEND**

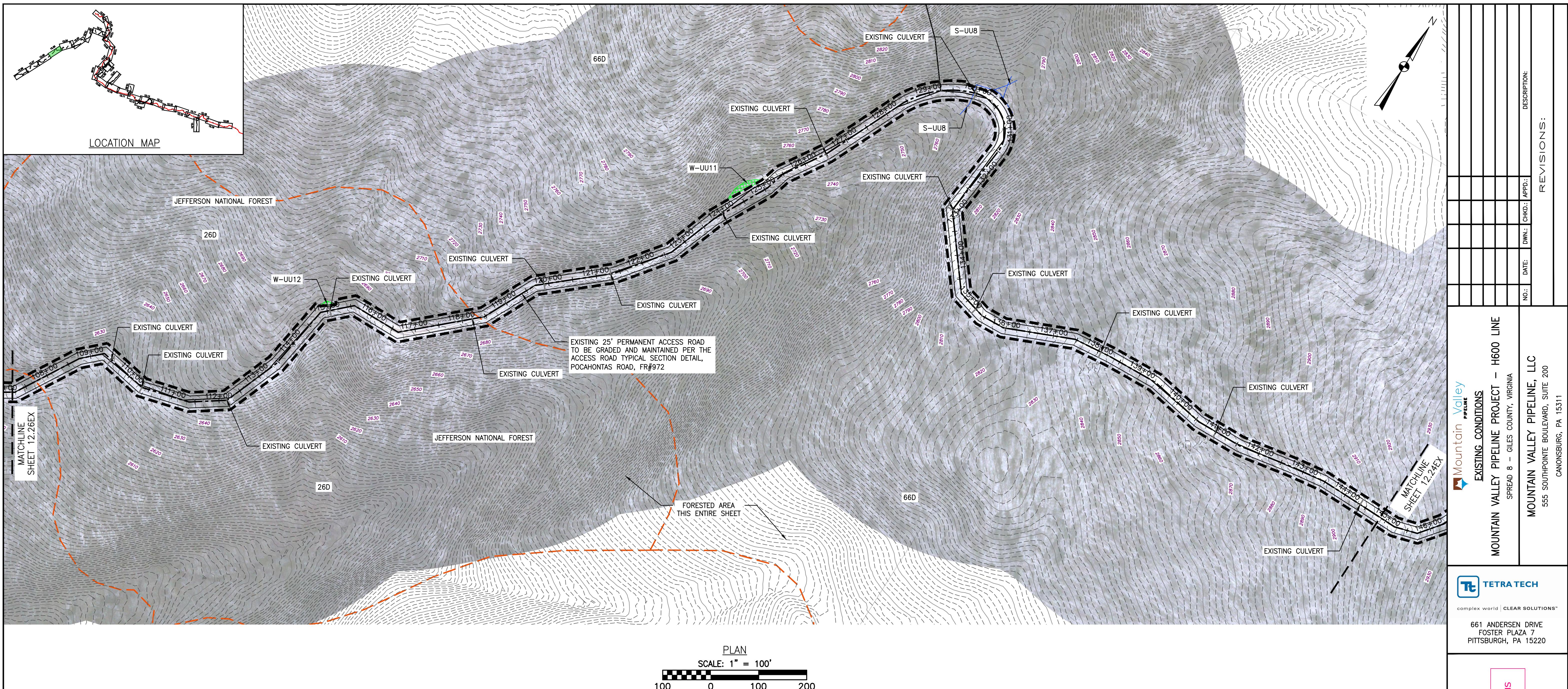
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI - AGRICULTURAL LAND USE BOUNDARY
- AFM - ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

**ACCESS ROAD LEGEND**

- (2) WETLAND CROSSING
- (3) STREAM CROSSING



DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.24E OF 12.34EX



**LEGEND**

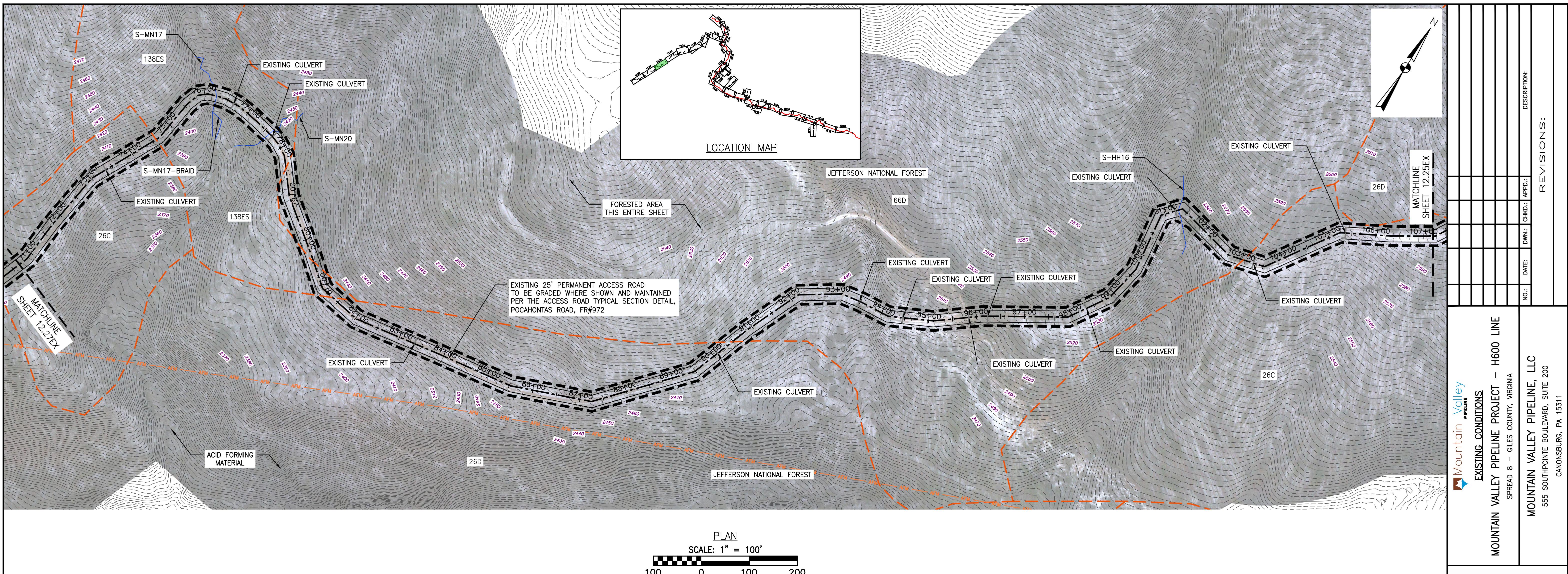
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI - AGRICULTURAL LAND USE BOUNDARY
- AFM - ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

**ACCESS ROAD LEGEND**

- (2) WETLAND CROSSING
- (3) STREAM CROSSING



DAVID J. WALLNER  
LIC. NO. 040205759  
PROFESSIONAL ENGINEER



REVISIONS:	
NO.:	
DATE:	
CHGD.:	
DWN.:	
APP'D:	
DESCRIPTION:	

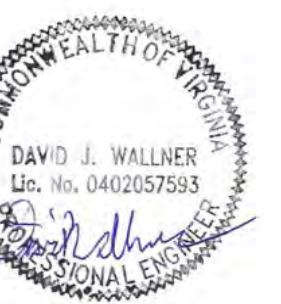
**Mountain Valley Pipeline**  
**EXISTING CONDITIONS**

**MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE**  
**SPREAD 8 – GILES COUNTY, VIRGINIA**

**MOUNTAIN VALLEY PIPELINE, LLC**  
**555 SOUTHPOINTE BOULEVARD, SUITE 200**  
**CANONSBURG, PA 15331**

**TETRA TECH**  
complex world | CLEAR SOLUTIONS™  
661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



**LEGEND**

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRICULTURAL LAND USE BOUNDARY
- AFM — AFM — ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- ANST — ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- AGRI — AGRI — AGRICULTURAL LAND USE BOUNDARY

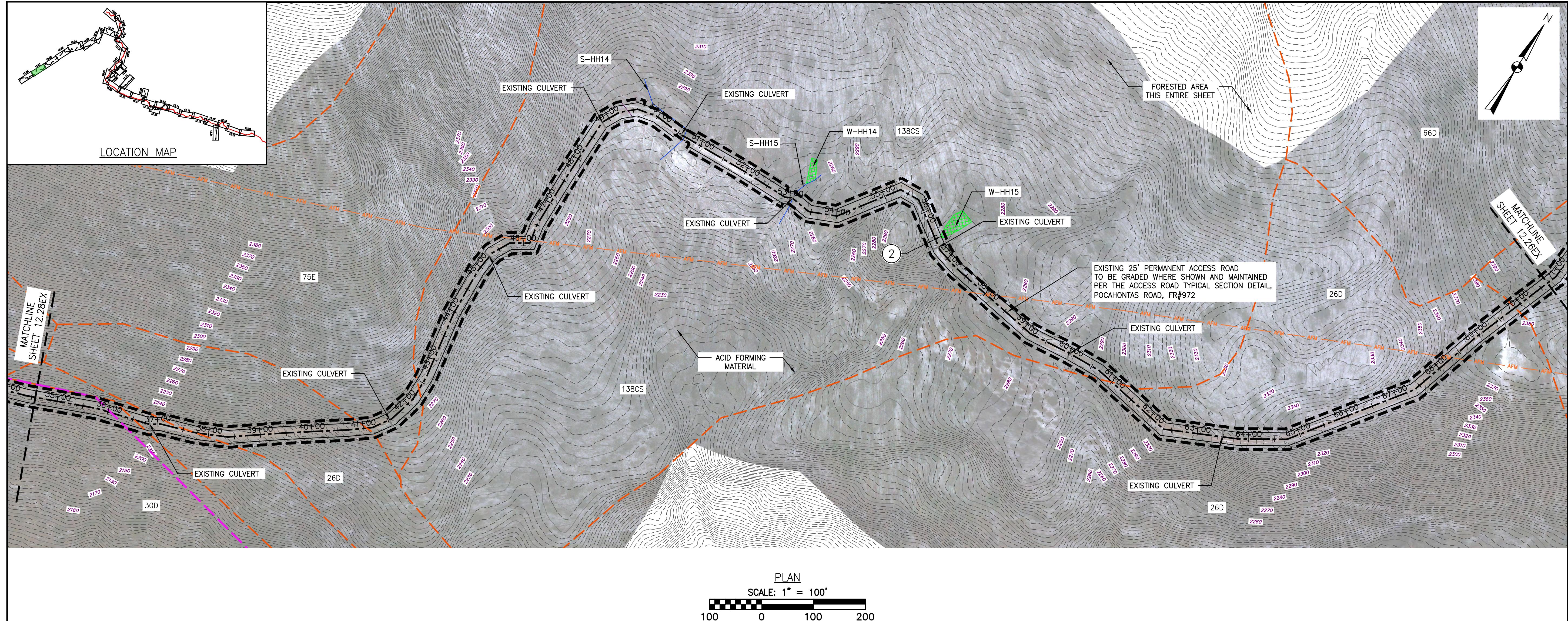
**ACCESS ROAD LEGEND**

- (2) WETLAND CROSSING
- (3) STREAM CROSSING

**NOTES:**

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DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.26EX OF 12.34EX  
REVISION



A circular official seal of the Commonwealth of Virginia. The outer ring contains the words "COMMONWEALTH OF VIRGINIA" in capital letters. Inside the circle, the name "DAVID J. WALLNER" is printed above "Lic. No. 0402057593". Below this information, there is a handwritten signature that appears to read "David J. Wallner" followed by "PROFESSIONAL ENGINEER".

## LEGEND

- PROPOSED LIMIT OF DISTURBANCE
  - PROPOSED ACCESS ROAD CENTERLINE
  - PROPOSED PIPELINE
  - EXISTING CULVERT
  - STREAM
  - US FOREST SERVICE (NATIONAL FORES
  - ANST ANST APPALACHIAN NATIONAL SCENIC TRAIL
  - AGRI AGRI AGRICULTURAL LAND USE BOUNDARY

## ACCESS ROAD LEGEND

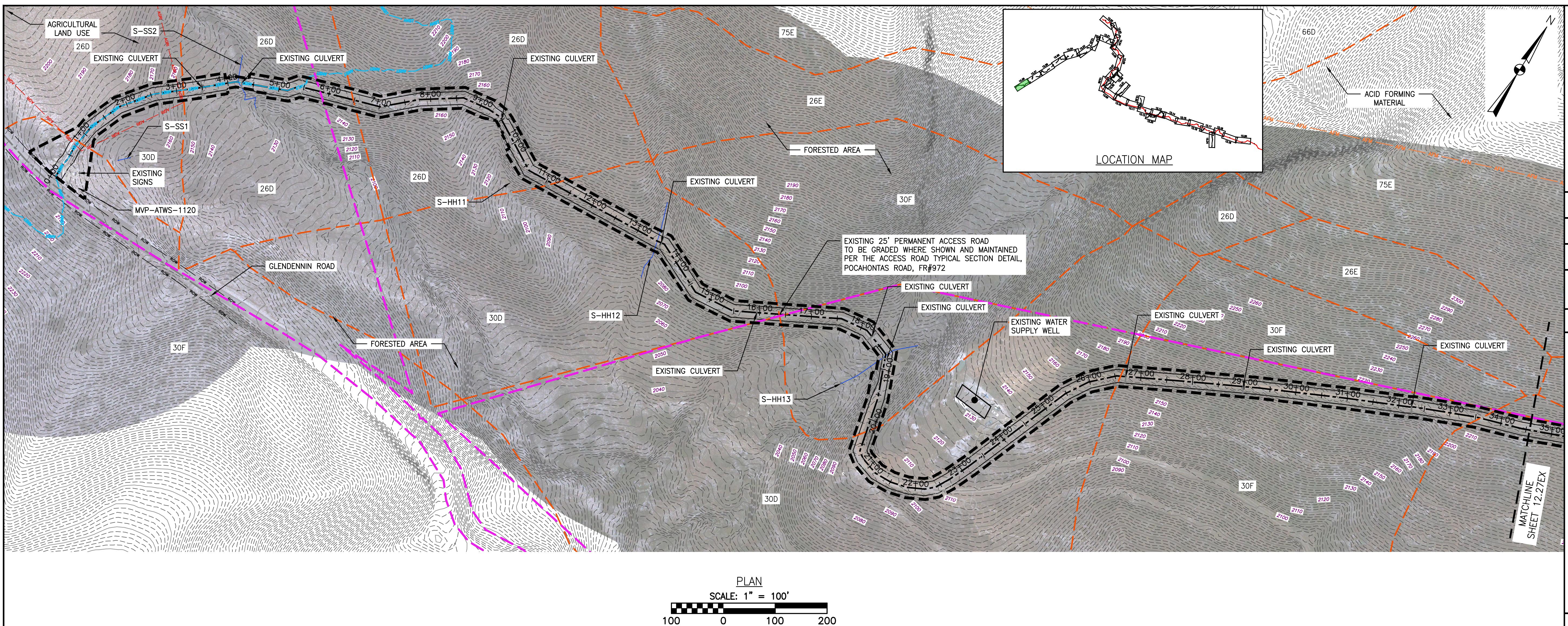
- 2 WETLAND CROSSING
  - 3 STREAM CROSSING

## NOTES:

- NOTES.**

  1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
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CHECKED BY:	
APPROVED BY:	
DATE:	3/1/2016
SCALE:	AS SHOWN



**LEGEND**

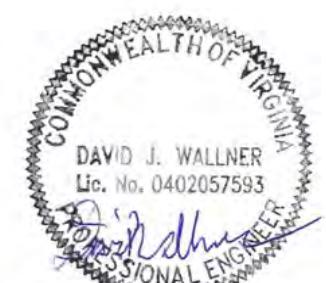
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- EXISTING CULVERT
- STREAM
- US FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AGRICULTURAL LAND USE BOUNDARY
- AFM — AFM — ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

**ACCESS ROAD LEGEND**

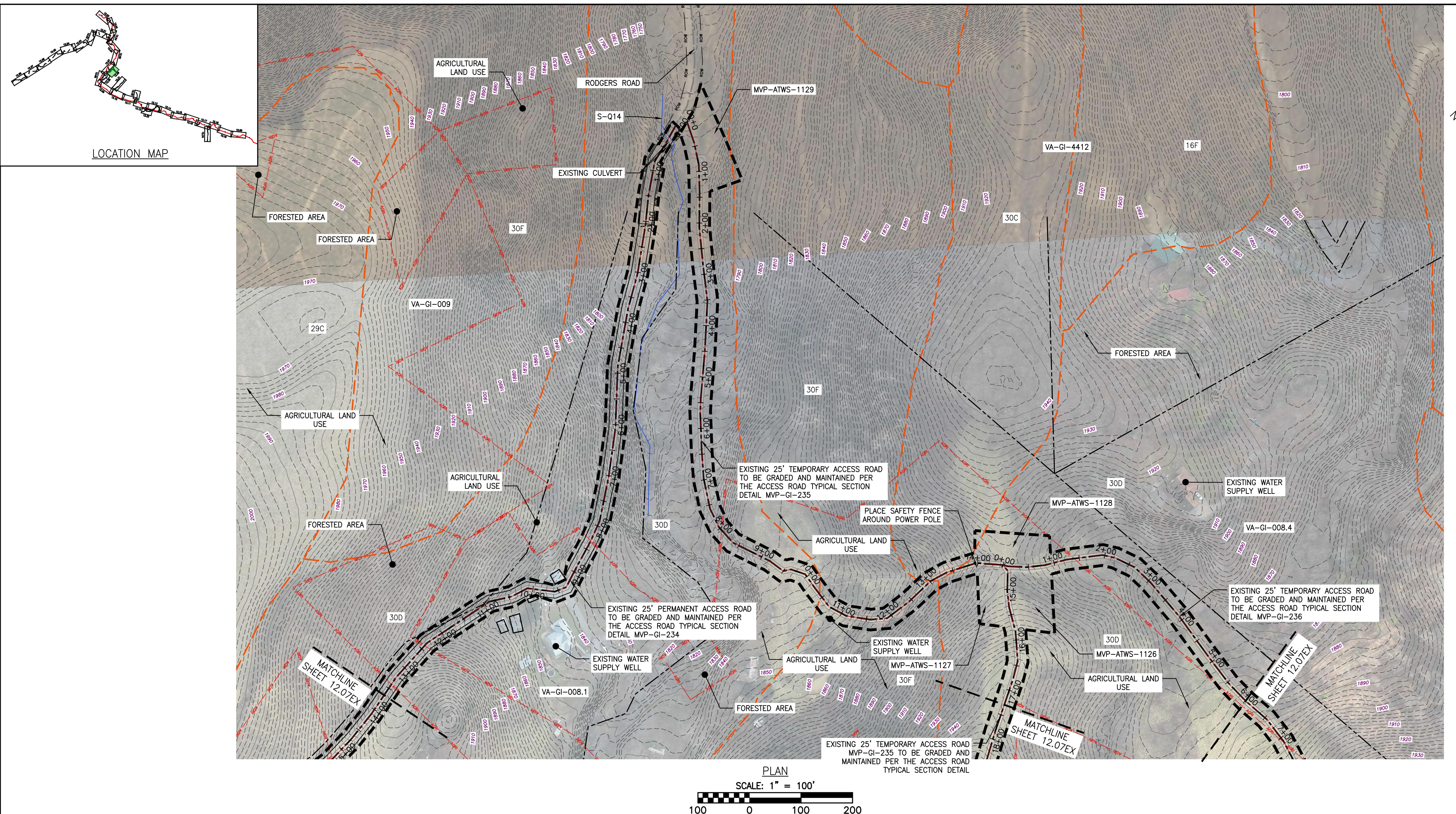
- (2) WETLAND CROSSING
- (3) STREAM CROSSING

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DRAWN BY: LJK  
CHECKED BY: JDO  
APPROVED BY: RE  
DATE: 3/1/2016  
SCALE: AS SHOWN  
SHT. NO. 12.28E OF 12.34EX  
REVISION

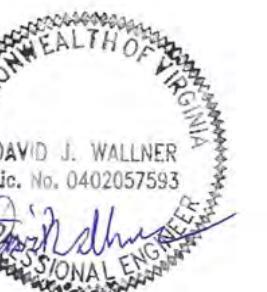


REVISIONS:	
No.:	Date:
Chkd.:	Dwn.:
Appd.:	
DESCRIPTION:	

**MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE**  
SPREAD 8 – GILES COUNTY, VIRGINIA  
MOUNTAIN VALLEY PIPELINE, LLC  
555 SOUTHPOINTE BOULEVARD, SUITE 200  
CANONSBURG, PA 15311

**TETRA TECH**  
complex world | CLEAR SOLUTIONS™  
661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**

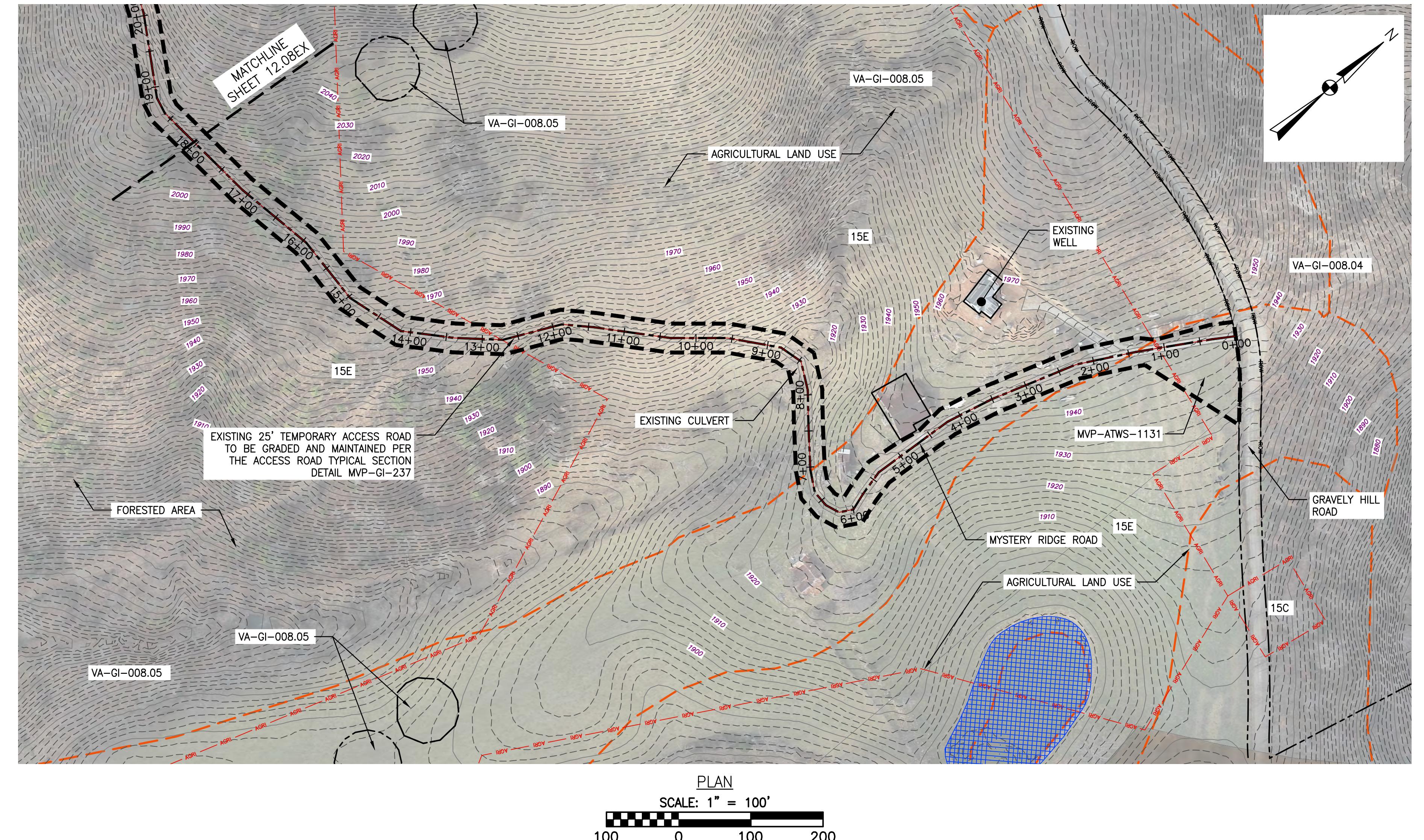
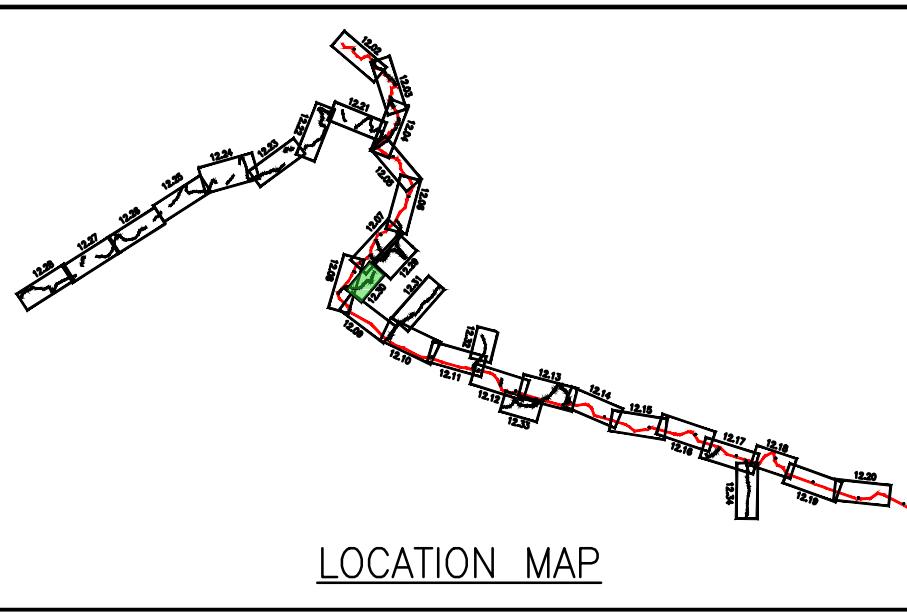


<b>LEGEND</b>	
PROPOSED LIMIT OF DISTURBANCE	
PROPOSED ACCESS ROAD CENTERLINE	
PROPOSED PIPELINE	
EXISTING CULVERT	
STREAM	
US FOREST SERVICE (NATIONAL FOREST) LANDS	
APPALACHIAN NATIONAL SCENIC TRAIL	
AGRI	

AFM	AFM	ACID FORMING MATERIAL
EXISTING SOIL BOUNDARY		
EXISTING PROPERTY LINE		
EXISTING STATE LINE		
EXISTING COUNTY LINE		
POND		
WETLAND		

<b>ACCESS ROAD LEGEND</b>	
(2)	WETLAND CROSSING
(3)	STREAM CROSSING

DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	3/1/2016
SCALE:	AS SHOWN
REVISION:	
SHT. NO.	12.29EX OF 12.34EX



**Mountain Valley PIPELINE EXISTING CONDITIONS**

**MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE SPREAD 8 – GILES COUNTY, VIRGINIA**

**MOUNTAIN VALLEY PIPELINE, LLC**  
555 SOUTHPOINTE BOULEVARD, SUITE 200  
CANONSBURG, PA 15311

**TETRA TECH**  
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661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

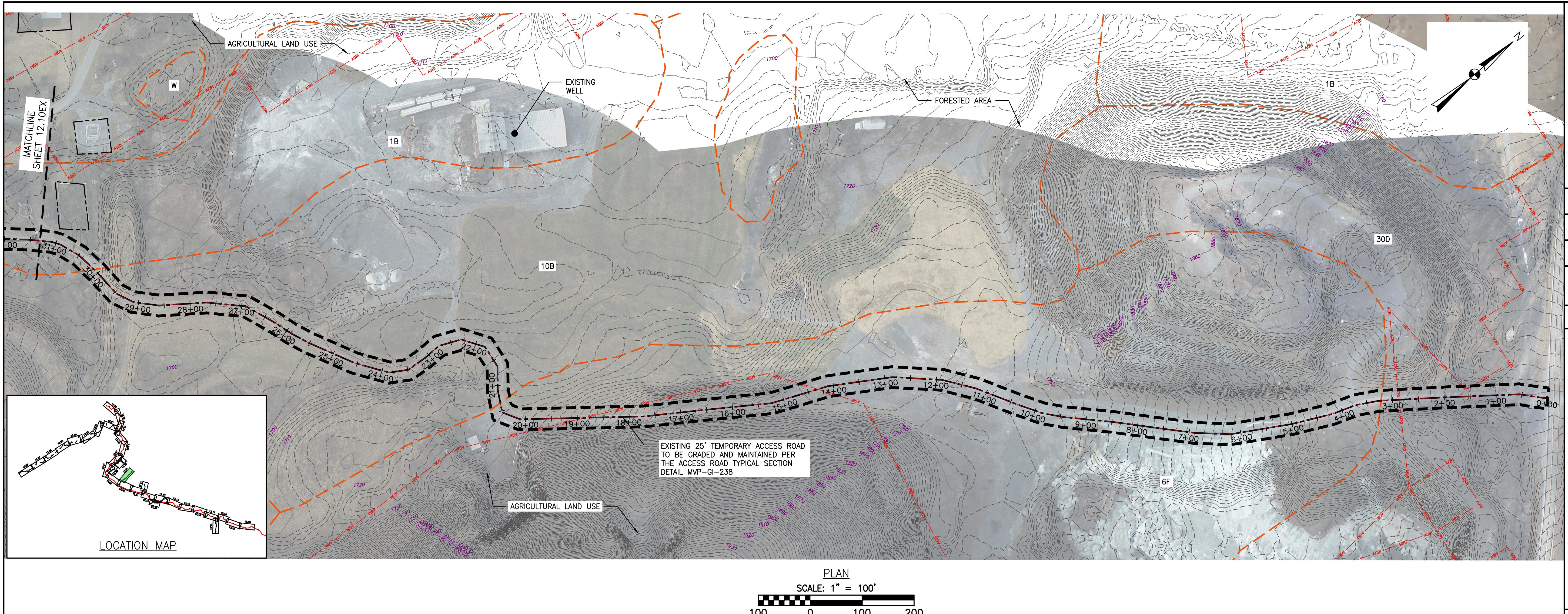
**EXISTING CONDITIONS**

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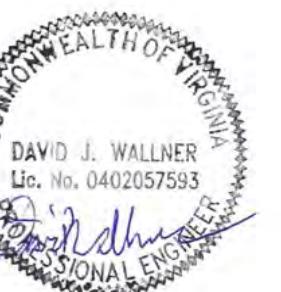
**DRAWN BY:** LJK  
**CHECKED BY:** JDO  
**APPROVED BY:** RE  
**DATE:** 3/1/2016  
**SCALE:** AS SHOWN  
**REVISION:**  
SHT. NO. 12.30EX OF 12.34EX

**COMMONWEALTH OF VIRGINIA**  
DAVID J. WALLNER  
Lc. No. 040205759  
SPECIAL ENGINEER



**TETRA TECH**  
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661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EXISTING CONDITIONS**



**LEGEND**

PROPOSED LIMIT OF DISTURBANCE	- - - - -
PROPOSED ACCESS ROAD CENTERLINE	- - - - -
PROPOSED PIPELINE	- - - - -
EXISTING CULVERT	- - - - -
STREAM	- - - - -
US FOREST SERVICE (NATIONAL FOREST) LANDS	- - - - -
APPALACHIAN NATIONAL SCENIC TRAIL	- - - - -
AGRI	- - - - -

AFM	- - - - -	ACID FORMING MATERIAL
EXISTING SOIL BOUNDARY	- - - - -	
EXISTING PROPERTY LINE	- - - - -	
EXISTING STATE LINE	- - - - -	
EXISTING COUNTY LINE	- - - - -	
WETLAND	- - - - -	

**ACCESS ROAD LEGEND**

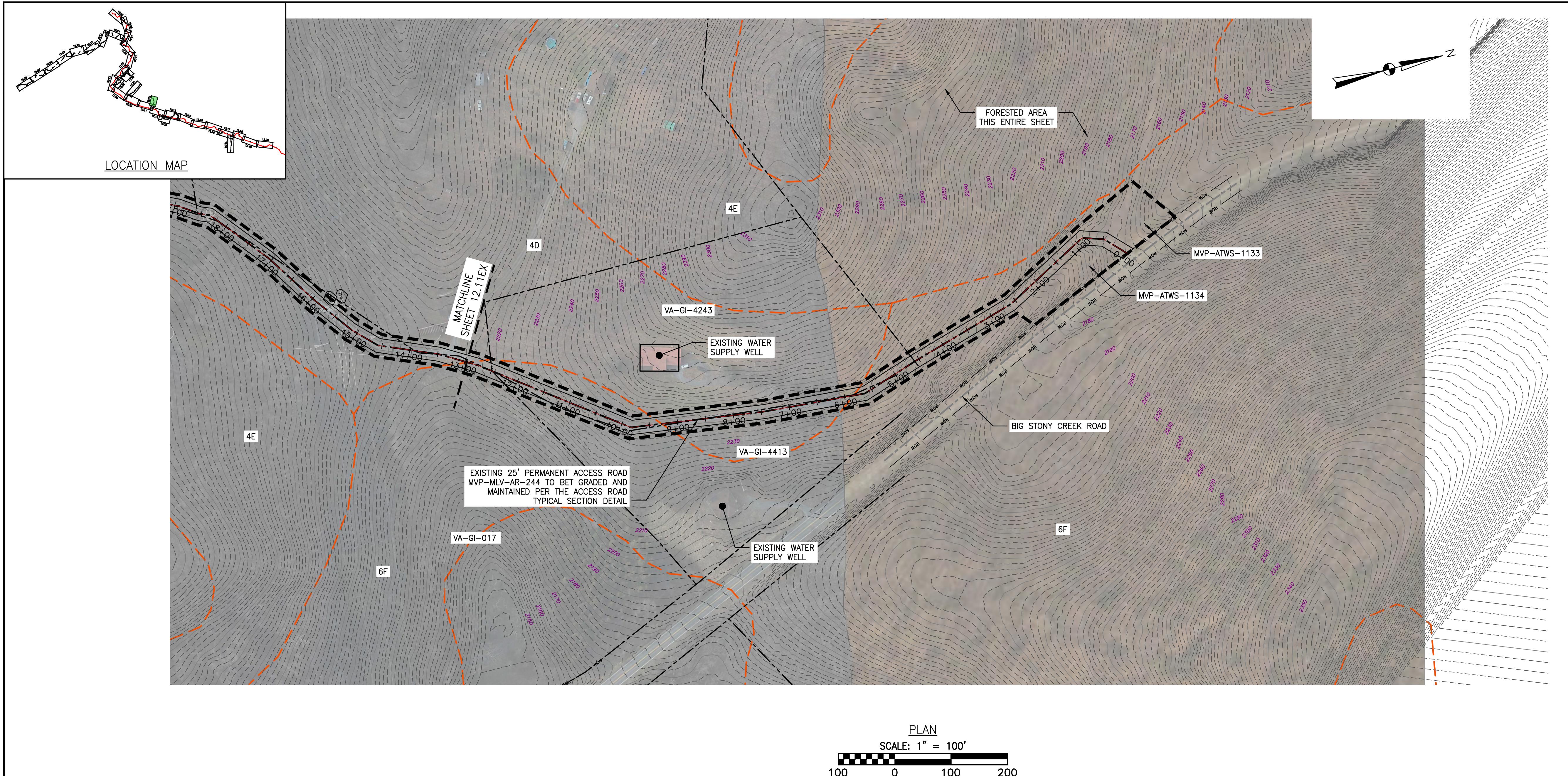
- (2) WETLAND CROSSING
- (3) STREAM CROSSING

**NOTES:**

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DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	3/1/2016
SCALE:	AS SHOWN
REVISION:	

SHT. NO. 12.31EX OF 12.34EX



LEGEND

— — — — PROPOSED LIMIT OF DISTURBANCE  
— — — — PROPOSED ACCESS ROAD CENTERLINE

Legend:

- AFM — ACID FORMING MATERIAL
- EXISTING SOIL BOUNDARY
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND

### ACCESS ROAD LEGEND

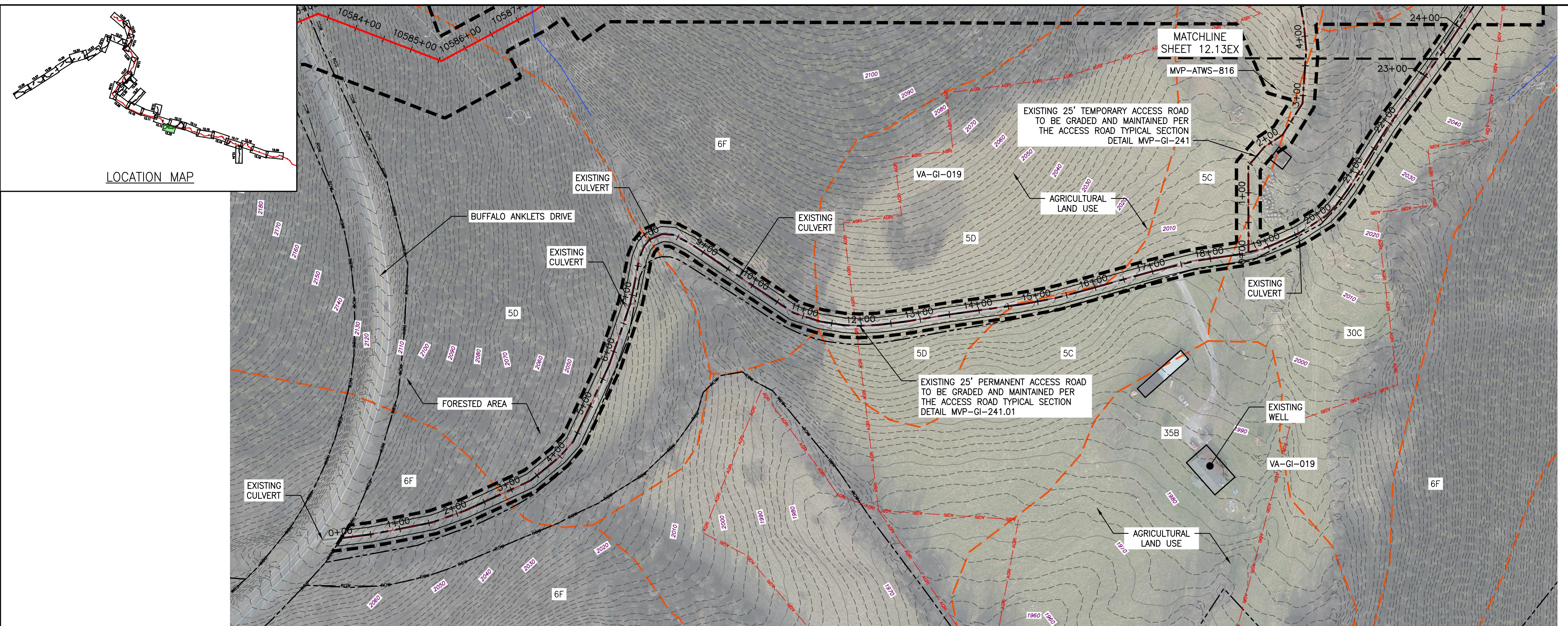
- (2) WETLAND CRO  
(3) STREAM CROSS

#### NOTES:

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A circular seal for a professional engineer from the Commonwealth of Virginia. The outer ring contains the words "COMMONWEALTH OF VIRGINIA" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the name "DAVID J. WALLNER" is printed above the text "Lic. No. 0402057593". Below this information is a handwritten signature that appears to read "David J. Wallner".

DRAWN BY:	LJ
CHECKED BY:	JD
APPROVED BY:	R
DATE:	3/1/2016
SCALE:	AS SHOWN
SHT NO.	12 32EX OF 12 34FX



REVISIONS:	
NO.:	DATE:
DWY.:	CHKD.:
APPD.:	
DESCRIPTION:	
Mountain Valley Pipeline EROSION AND SEDIMENT CONTROL PLANS	
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE SPREAD 8 - GILES COUNTY, VIRGINIA	
MOUNTAIN VALLEY PIPELINE, LLC 555 SOUTHPOINTE BOULEVARD, SUITE 200 CANONSBURG, PA 15311	

**TETRA TECH**  
complex world | CLEAR SOLUTIONS™  
661 ANDERSEN DRIVE  
FOSTER PLAZA 7  
PITTSBURGH, PA 15220

**EROSION AND SEDIMENT CONTROL PLANS**

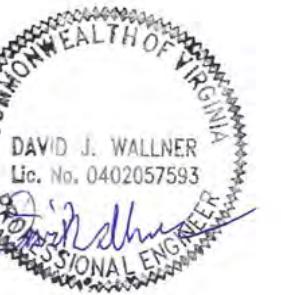
**LEGEND**

EXISTING CULVERT	PROPOSED LIMIT OF DISTURBANCE
STREAM	PROPOSED ACCESS ROAD CENTERLINE
US FOREST SERVICE (NATIONAL FOREST) LANDS	PROPOSED PIPELINE
ANST ANST APPALACHIAN NATIONAL SCENIC TRAIL	PROPOSED SILT FENCE (SEE NOTE 5)
EXISTING ROAD/TRAIL	PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
EXISTING PROPERTY LINE	RFD RFD PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
EXISTING STATE LINE	OCSF ORANGE CONSTRUCTION SAFETY FENCE
EXISTING COUNTY LINE	PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
POND	PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
WETLAND	PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
AFM AFM ACID FORMING MATERIAL	> > GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
AGRI AGRI AGRICULTURAL LAND USE	PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)

	TIMBER MAT (SEE DETAIL MVP-ES37)
	STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
	STEEP SLOPE AREAS (SEE NOTE 4)
	PROPOSED ROCK CONSTRUCTION ENTRANCE
	PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
	PROPOSED BROAD BASED DIP (SEE DETAIL MVP-ES5)
	TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)
	PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)

**NOTES:**

- TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
- FLEXTERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
- 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.
- SLOPES OF 30° OR GREATER EXIST. CONSTRUCTION FOR STEEP SLOPES TO BE PERFORMED USING STEEP SLOPE TECHNIQUES IDENTIFIED IN THE DETAIL SHEETS. ALSO REFER TO THE SITE-SPECIFIC DESIGN OF STABILIZATION MEASURES IN SELECTED HIGH-HAZARD PORTIONS OF THE ROUTE OF THE PROPOSED MOUNTAIN VALLEY PIPELINE PROJECT.
- WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
- IMPROVEMENTS TO PERMANENT AND TEMPORARY ACCESS ROADS WILL BE PERFORMED PER THE SITE SPECIFIC ACCESS ROAD DETAILS.
- TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSING WILL BE CONDUCTED VIA CULVERTS.
- ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE.



DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	RE
DATE:	3/1/2016
SCALE:	AS SHOWN
REVISION:	

