



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Travis A. Voyles
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director
(804) 698-4020

October 12, 2023

Mr. Cory Chalmers
Senior Environmental Coordinator
Equitrans Midstream Corporation
2200 Energy Drive
Canonsburg, PA 15317

Transmitted electronically: CChalmers@equitransmidstream.com

Re: Mountain Valley Pipeline, LLC (MVP)
Erosion & Sediment Control (ESC) Plan Modification (2) Approvals

Dear Mr. Chalmers:

The Department of Environmental Quality (DEQ) hereby approves the following modifications to the Erosion & Sediment Control (ESC) Plan:

- MLV-23 and MVP-MLV-AR-23, Sheets 12.07ES and 12.08ES, Sign/Seal dated 8/14/2023, Sheet 12.08PC, Sign/Seal dated 12/7/2022.
- MLV29, H602/H-603 Tap Sites, Details 33.1-33.4, Sheet 14.34ES, Sign/Seal dated 3/30/2022, Sheets 15.78 ES, 15.91ES, Sign/Seal dated 5/5/2022 Sheets 15.92ES, 15.93ES, 14.34AES, Sign/Seal dated 8/14/2023.

No additional modifications, updates or additions may be made to the approved Plans without obtaining prior approval from DEQ. Additionally, approval of these modifications does not relieve the owner and/or operator of complying with all other federal, state, or local laws and regulations. Please ensure that copies of this approval letter, the approved plan modification, and the corresponding MVP Program Administrator approval letter are made available to the public, inspection staff and field staff in accordance with the DEQ-approved MVP Annual Standards and Specifications.

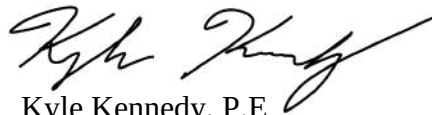
October 12, 2023
Mr. Cory Chalmers
Re: Mountain Valley Pipeline LLC
Page 2 of 2

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty (30) days from the date you received this decision within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Virginia Department of Environmental Quality.

It is the responsibility of the owner and/or operator to ensure that the project is constructed in accordance with the approved Plans and accompanying specifications. Upon completion of the project, the owner and/or operator will be required to submit construction record drawings for all permanent stormwater management facilities (i.e., post-development best management practices) constructed in accordance with the approved Plans.

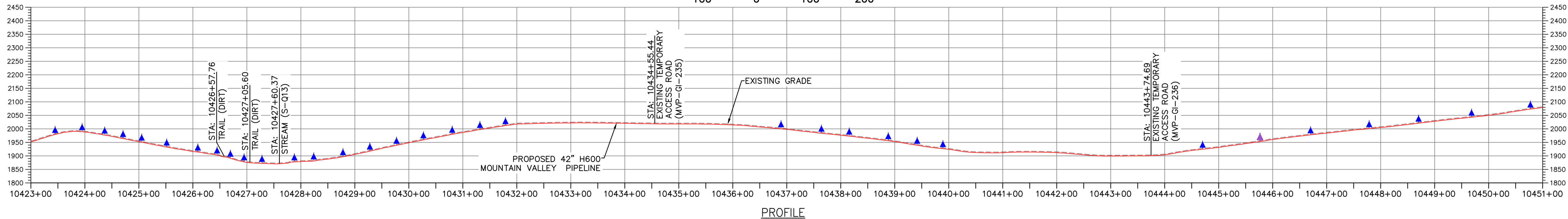
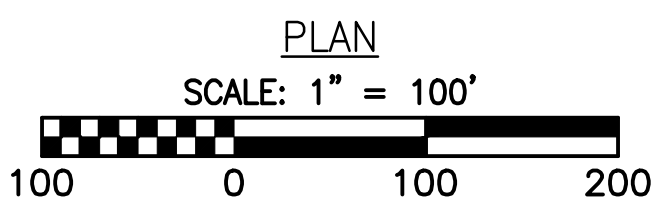
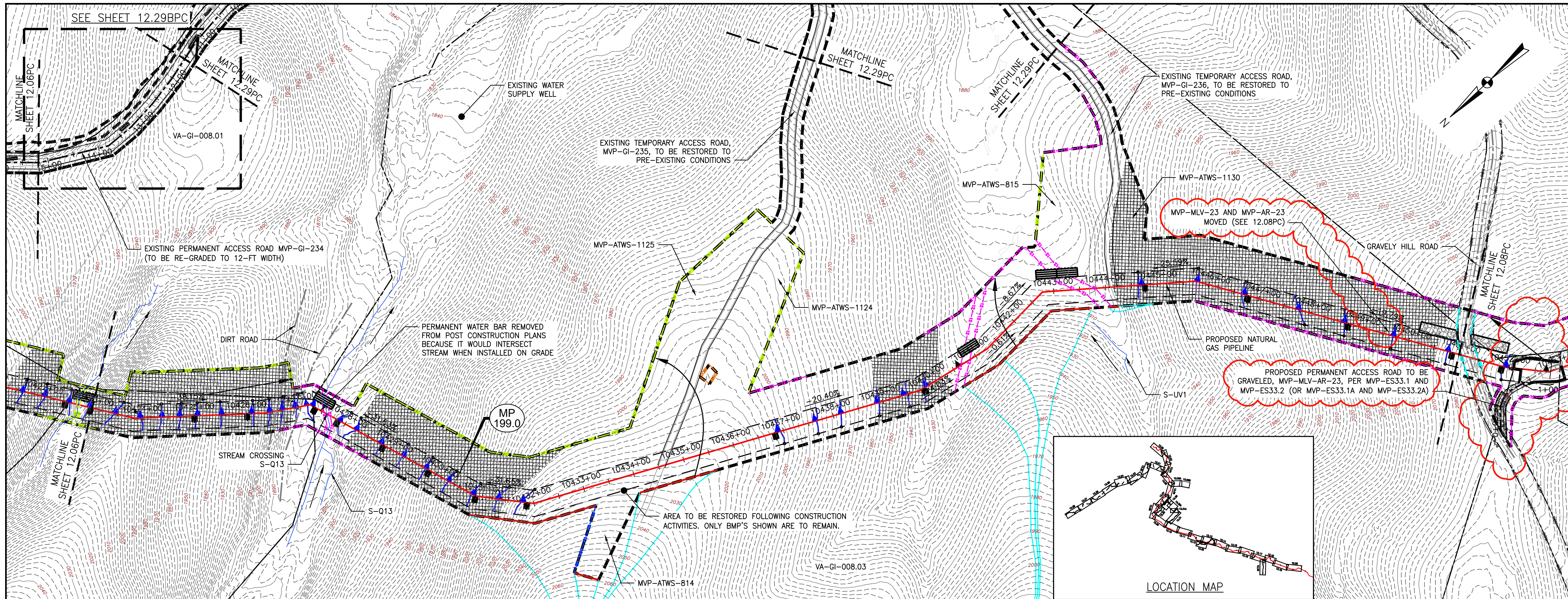
Please contact Mr. Larry Gavan at (804) 965-3320 or Larry.Gavan@deq.virginia.gov if you have any questions about this letter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kyle Kennedy', written in a cursive style.

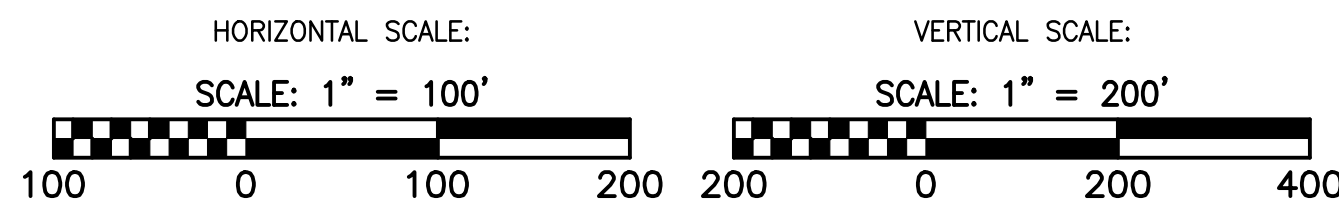
Kyle Kennedy, P.E.
Manager
Office of Stormwater Management

Cc: John McCutcheon, DEQ-CO
Jay Lemmerman, WSSI

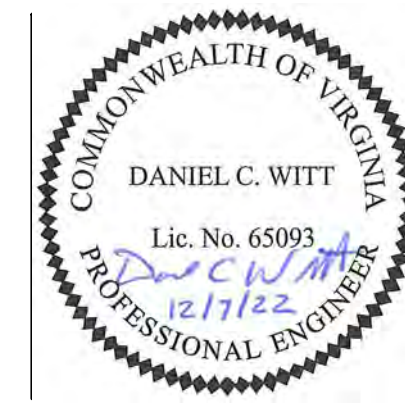


LEGEND

- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- - - EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- AFM — ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- - - PROPOSED LIMIT OF DISTURBANCE
- - - PROPOSED PERMANENT RIGHT OF WAY
- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
- - - PROPOSED ACCESS ROAD CENTERLINE
- - - PROPOSED PIPELINE
- SURFACE WATER FLOW DIRECTION
- POND
- WETLAND
- PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
- APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)



- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- PERMANENT WATER BAR 10' END TREATMENT
- PERMANENT WATER BAR 15' END TREATMENT
- PERMANENT WATER BAR 20' END TREATMENT
- STEEP SLOPE AREA
- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION



THIS SEAL APPLIES ONLY TO REVISIONS DATED 12-07-22

NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON EITHER END.

NO.	DATE	CHD.	APPD.	DESCRIPTION
1	12/07/22	RE	RE	UPDATE BAFFLE SPACING FOR RELOCATION OF MLV-23
2	01/29/19	JUZ	DW	FED MODIFICATION - MP 199.0 (MLV-23 SITE AND ACCESS ROAD MVP-MLV-AR-23)
3	03/21/18	KAL	RE	ADDRESS VADO COMMENTS
4	03/16/18	KAL	RE	ADDRESS VADO COMMENTS
5	02/16/18	KAL	DW	REUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	02/05/18	KAL	DW	REUBMISSION USING APPROVED STORMWATER METHODOLOGY

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE	
SPREAD 8 - GILES COUNTY, VIRGINIA	
MOUNTAIN VALLEY PIPELINE, LLC	
2200 ENERGY DRIVE	
CANONSBURG, PA 15317	

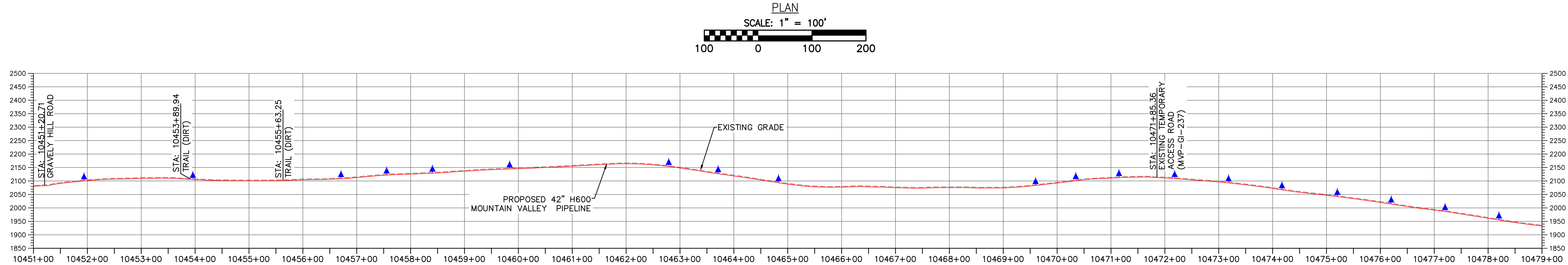
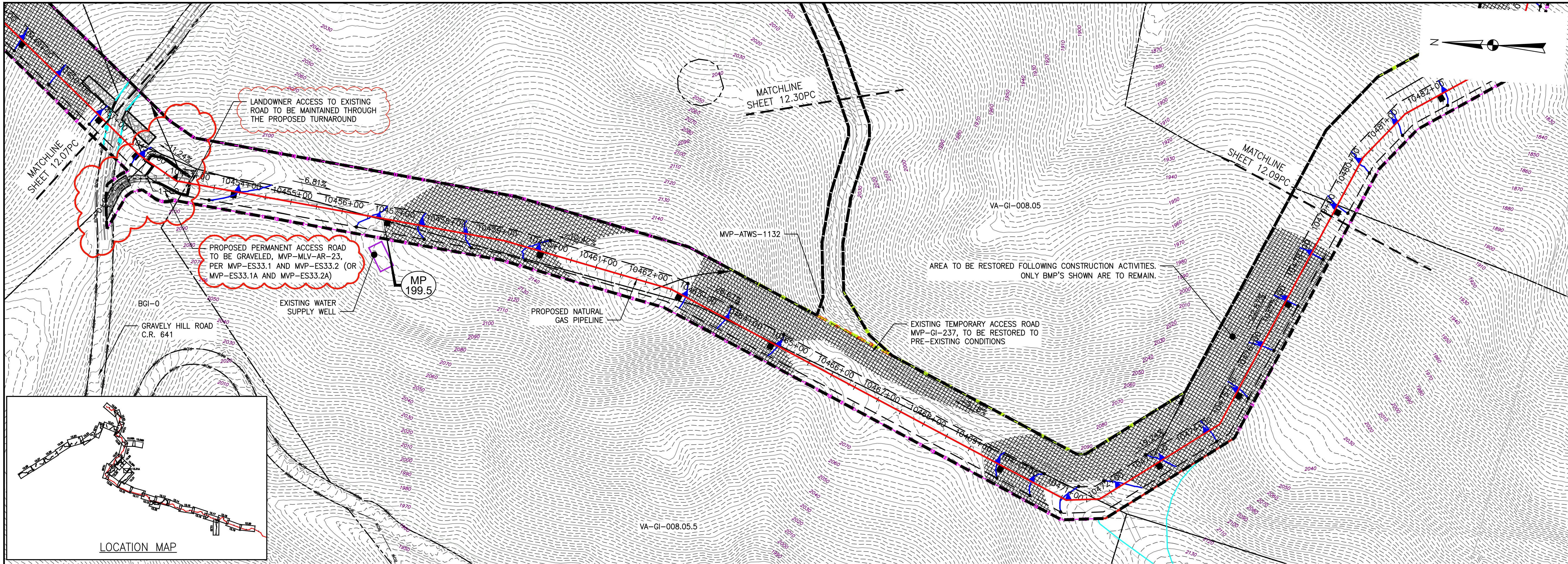
TETRA TECH

complex world | CLEAR SOLUTIONS™

661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

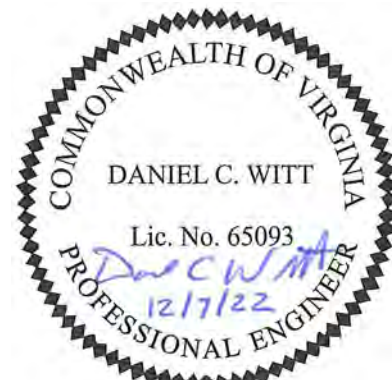
POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS

DRAWN BY:	JUZ
CHECKED BY:	RE
APPROVED BY:	TD
DATE:	12/07/2022
SCALE:	AS SHOWN
SHT. NO. 12.07PC	OF 12.33PC



LEGEND

- | | | | |
|-------|---|---------|---|
| — | EXISTING CULVERT | —>—>—> | PROPOSED LEVEL SPREADER DIVERSION |
| — | STREAM | +++++ | PROPOSED LEVEL SPREADER |
| - - - | EXISTING PROPERTY LINE | - - - | PROPOSED ACCESS ROAD CENTERLINE |
| - - - | EXISTING STATE LINE | - - - | PROPOSED PIPELINE |
| - - - | EXISTING COUNTY LINE | —+—+—+— | SURFACE WATER FLOW DIRECTION |
| - - - | EXISTING ROAD/TRAIL | —+—+—+— | POND |
| — | USDA FOREST SERVICE (NATIONAL FOREST) LANDS | —+—+—+— | WETLAND |
| — | APPALACHIAN NATIONAL SCENIC TRAIL | —+—+—+— | PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1) |
| — | ACID FORMING MATERIAL | —+—+—+— | APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS) |
| — | GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39) | —+—+—+— | STREAM FLOW DIRECTION |
| - - - | PROPOSED LIMIT OF DISTURBANCE | —+—+—+— | FEMA 100 YEAR FLOODPLAIN |
| - - - | PROPOSED PERMANENT RIGHT OF WAY | —+—+—+— | PERMANENT WATER BAR 10' END TREATMENT |
| | | —+—+—+— | PERMANENT WATER BAR 15' END TREATMENT |
| | | —+—+—+— | PERMANENT WATER BAR 20' END TREATMENT |
| | | —+—+—+— | STEEP SLOPE AREA |
| | | —+—+—+— | EXISTING FOREST |
| | | —+—+—+— | PERMANENT EASEMENT RESTORED TO MEADOW CONDITION |
| | | —+—+—+— | TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION |

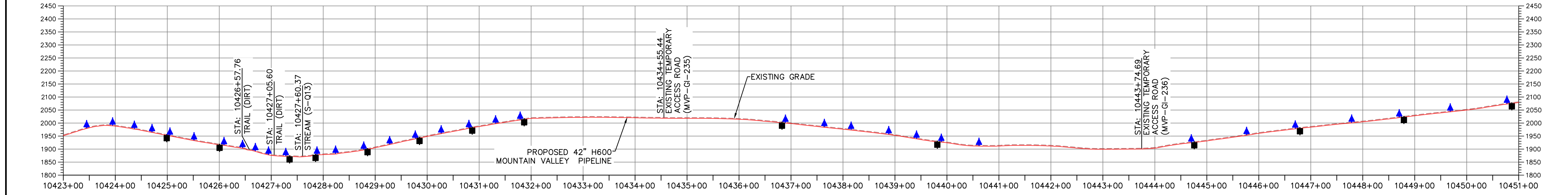
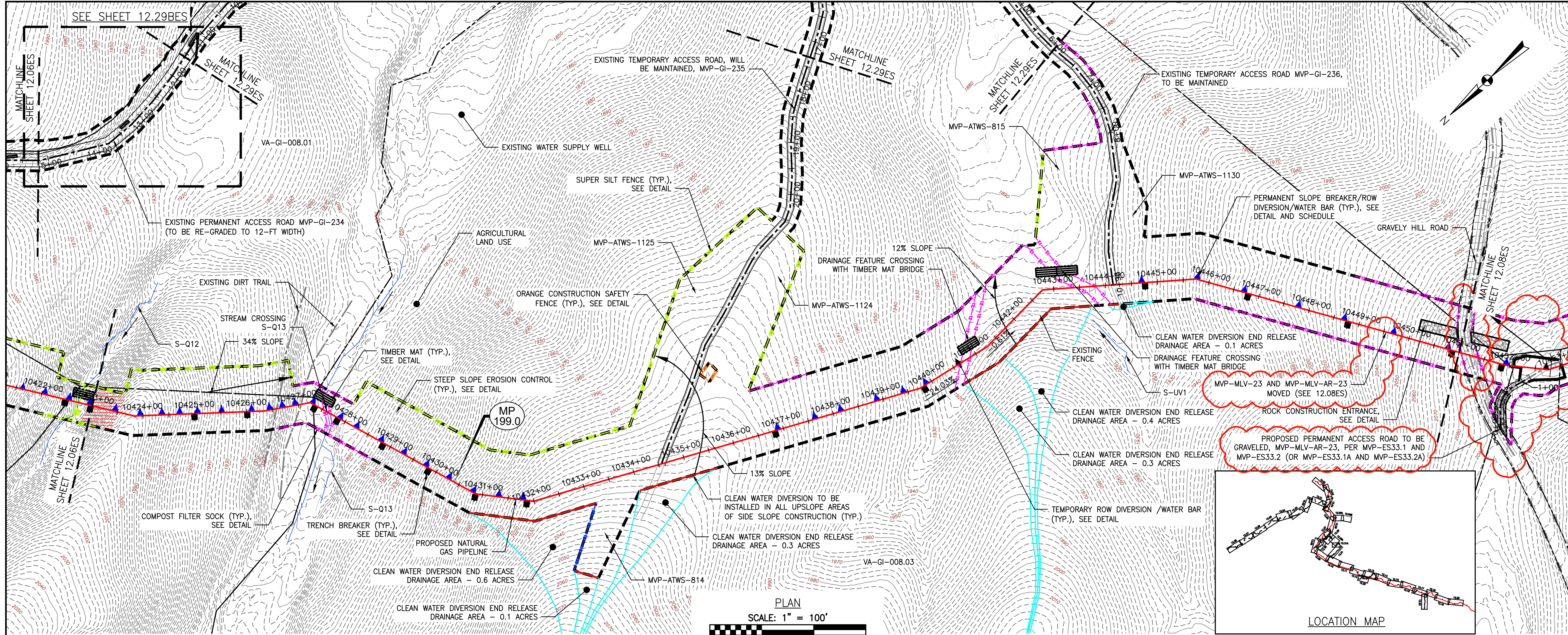


THIS SEAL APPLIES ONLY TO REVISIONS DATED 12-07-22

NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20'-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10'-FT WILL BE PLACED ON EITHER END.

Mountain Valley PIPELINE POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE SPREAD 8 – GILES COUNTY, VIRGINIA MOUNTAIN VALLEY PIPELINE, LLC 2200 ENERGY DRIVE CANONSBURG, PA 15317									
NO.	DATE	DWNL	CHKD	APPD.	DESCRIPTION				
–	12/07/22	MAP	RE	TD	UPDATE BAFFLE SPACING FOR RELOCATION OF MLV-23				
–	01/29/19	JUZ	RE	DW	FED MODIFICATION – MP 199.5 (MLV-23 SITE AND ACCESS ROAD MVP-MLV-AR-23)				
3	03/21/18	KAL	RE	DW	ADDRESS VADOZ COMMENTS				
7	03/16/18	KAL	RE	DW	ADDRESS VADOZ COMMENTS				
5	02/16/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY				
6	02/05/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY				
REVISIONS:									



LEGEND

- | | |
|---|--|
| --- PROPOSED LIMIT OF DISTURBANCE | --- PROPOSED ACCESS ROAD CENTERLINE |
| --- STREAM | --- PROPOSED PIPELINE |
| --- USDA FOREST SERVICE (NATIONAL FOREST) LANDS | --- PROPOSED SILT FENCE (SEE NOTE 5) |
| --- APPALACHIAN NATIONAL SCENIC TRAIL | --- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2) |
| --- EXISTING ROAD/TRAIL | --- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3) |
| --- EXISTING PROPERTY LINE | --- ORANGE CONSTRUCTION SAFETY FENCE |
| --- EXISTING STATE LINE | --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) |
| --- 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 | --- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39) |
| --- AFM --- ACID FORMING MATERIAL | --- CLEAN WATER DIVERSION PIPE |
| --- EXISTING FOREST | --- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51) |
| --- STREAM FLOW DIRECTION | --- FEMA 100 YEAR FLOODPLAIN |
| --- DRAINAGE AREA BOUNDARY | --- 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) |
| --- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11) | --- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE) |

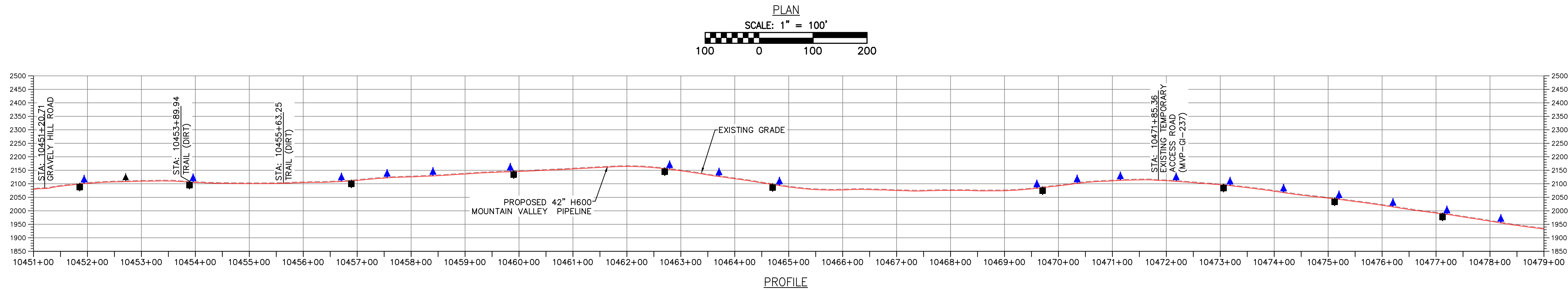
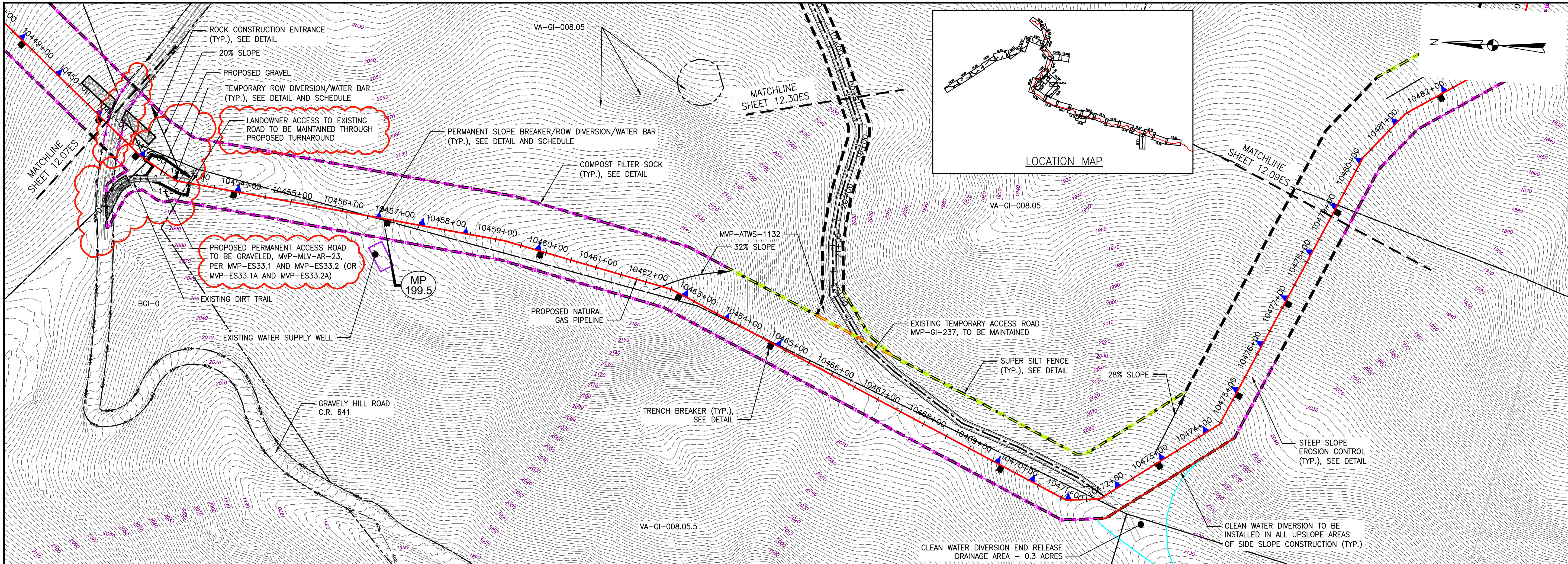


THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-31-23

NOTES:

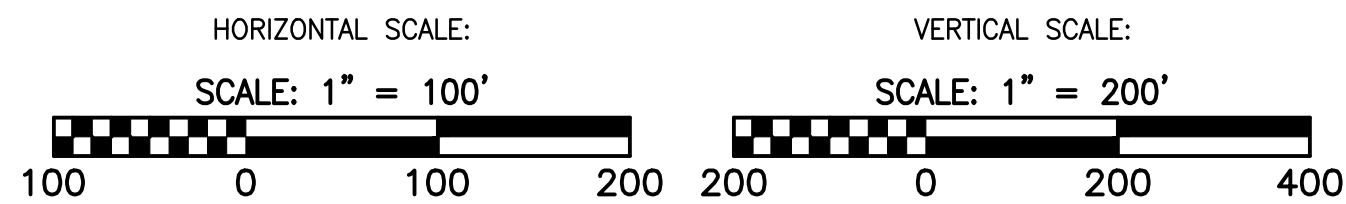
1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
2. FLEXTERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
3. CONTRACTOR IS RESPONSIBLE TO IDENTIFY ALL UTILITIES. THE UTILITY LINES SHOWN ON THE PLAN ARE FOR INFORMATIONAL 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. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBER MATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

ADDRESS DEQ COMMENTS		ADDRESS DEQ COMMENTS		ADDRESS DEQ COMMENTS		ADDRESS DEQ COMMENTS		ADDRESS DEQ COMMENTS		ADDRESS DEQ COMMENTS	
07/31/23	DCW	12/07/22	RE	01/29/19	RE	03/16/18	RE	02/26/18	RE	02/22/18	RE
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12/07/22	RE	01/29/19	RE	03/16/18	RE	02/26/18	RE	02/22/18	RE	02/22/18	RE
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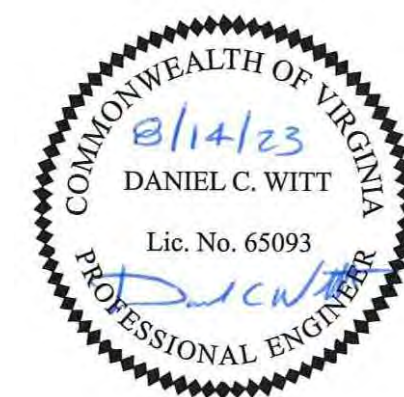


LEGEND

--- PROPOSED LIMIT OF DISTURBANCE	--- PROPOSED ACCESS ROAD CENTERLINE
--- STREAM	--- PROPOSED PIPELINE
--- USDA FOREST SERVICE (NATIONAL FOREST) LANDS	--- PROPOSED SILT FENCE (SEE NOTE 5)
--- APPALACHIAN NATIONAL SCENIC TRAIL	--- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
--- EXISTING ROAD/TRAIL	--- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
--- EXISTING PROPERTY LINE	--- ORANGE CONSTRUCTION SAFETY FENCE
--- EXISTING STATE LINE	--- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
--- 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	--- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
--- ACID FORMING MATERIAL	--- CLEAN WATER DIVERSION PIPE
--- EXISTING FOREST	--- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)



--- STREAM FLOW DIRECTION	--- FEMA 100 YEAR FLOODPLAIN
--- DRAINAGE AREA BOUNDARY	--- 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)
--- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)	--- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-31-23

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
2. FLEXTERRA, EARTHGUARD 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. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBER MATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

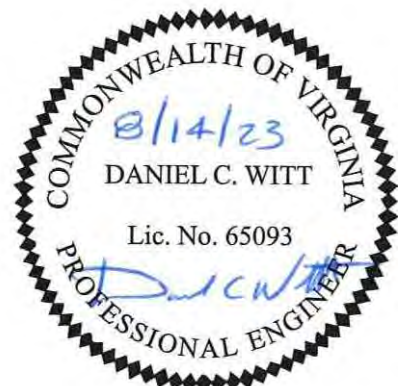
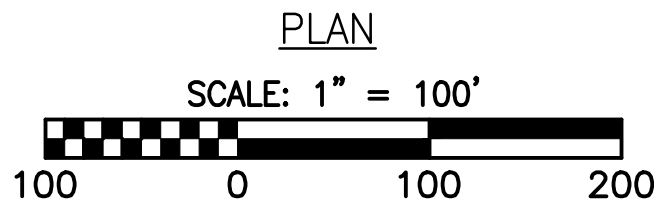
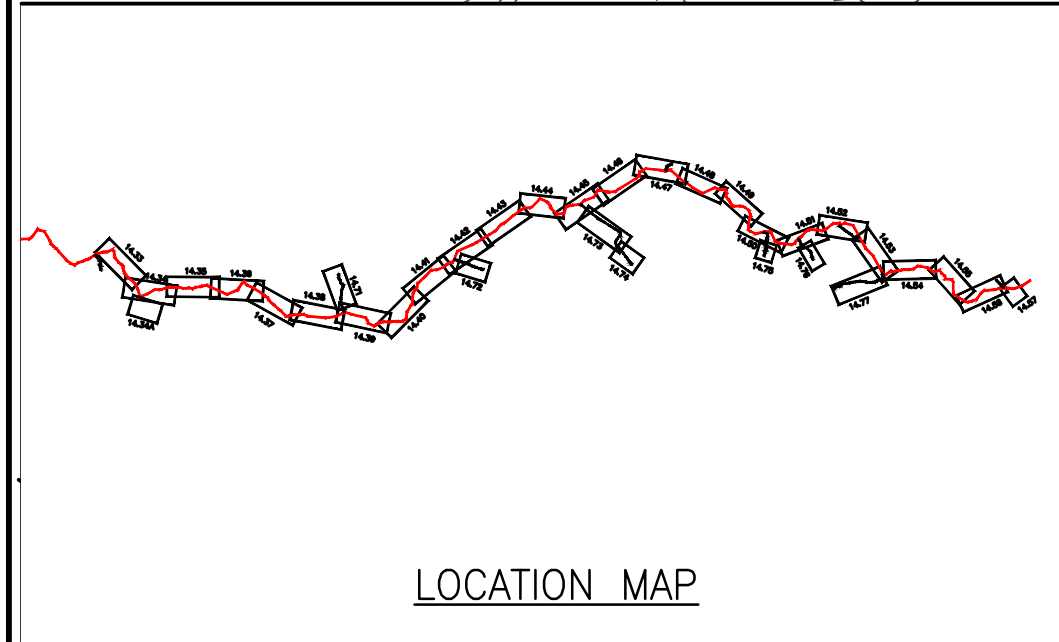
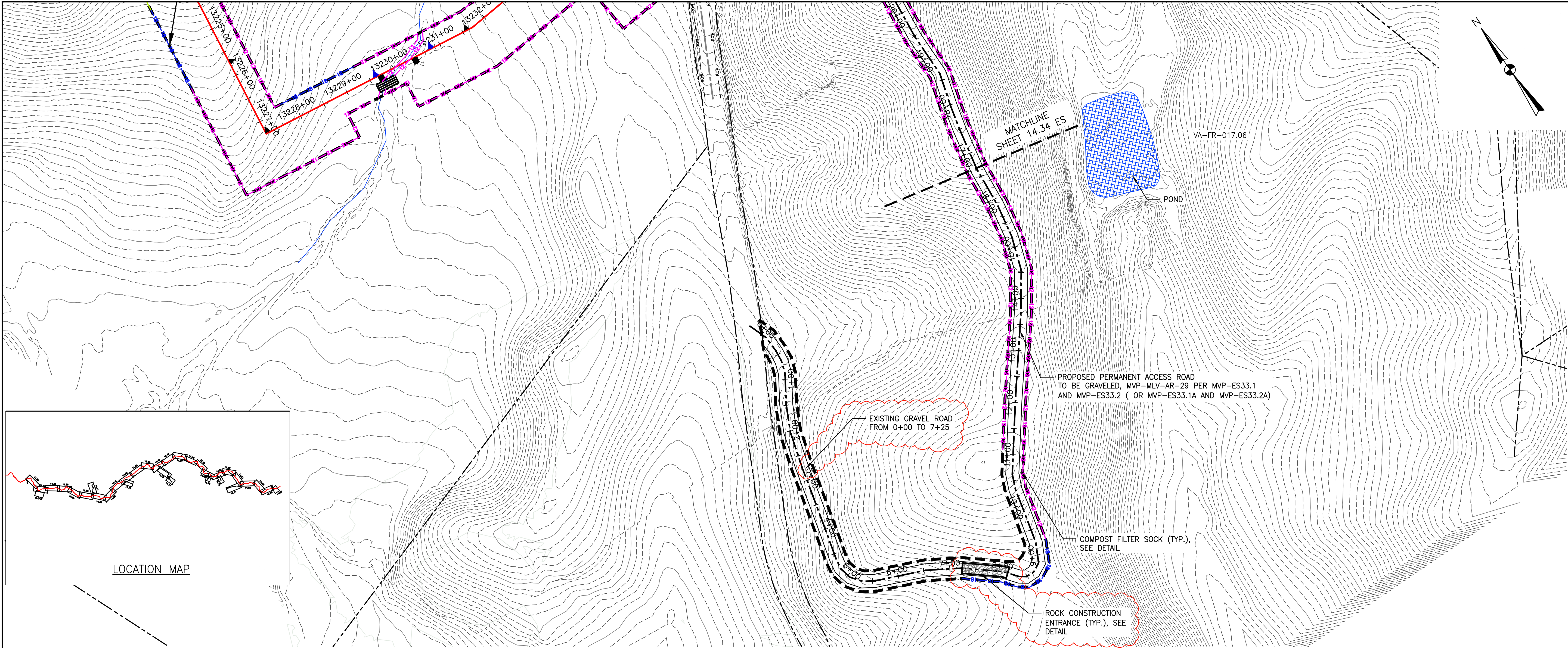
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01/29/19	RE	03/16/18	RE	02/26/18	RE	02/22/18	RE
03/16/18	RE	02/26/18	RE	02/22/18	RE	NO.	DATE:
02/26/18	RE	02/22/18	RE	NO.	DATE:	APPROV:	REVISIONS:

Mountain Valley Pipeline	
EROSION AND SEDIMENT CONTROL PLANS	
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE	
SPREAD 8 - GILES COUNTY, VIRGINIA	
MOUNTAIN VALLEY PIPELINE, LLC	
2200 ENERGY DRIVE	
CANONSBURG, PA 15311	

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

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057598
PROFESSIONAL ENGINEER
DRAWN BY: JUZ
CHECKED BY: HHH
APPROVED BY: DCW
DATE: 07/31/2023
SCALE: AS SHOWN
SHT. NO. 12.08ES OF 12.34ES



THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-28-23

LEGEND

- | | | |
|---|--|---|
| --- PROPOSED LIMIT OF DISTURBANCE | --- PROPOSED ACCESS ROAD CENTERLINE | → STREAM FLOW DIRECTION |
| --- STREAM | --- PROPOSED PIPELINE | --- FEMA 100 YEAR FLOODPLAIN |
| --- USDA FOREST SERVICE (NATIONAL FOREST) LANDS | --- PROPOSED SILT FENCE (SEE NOTE 5) | --- DRAINAGE AREA BOUNDARY |
| --- APPALACHIAN NATIONAL SCENIC TRAIL | --- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2) | --- TIMBER MAT (SEE DETAIL MVP-ES37) |
| --- EXISTING ROAD/TRAIL | --- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3) | --- STEEP SLOPE EROSION CONTROL (SEE NOTE 2) |
| --- EXISTING PROPERTY LINE | --- ORANGE CONSTRUCTION SAFETY FENCE | --- STEEP SLOPE AREAS (SEE NOTE 4) |
| --- EXISTING STATE LINE | --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) | --- PROPOSED ROCK CONSTRUCTION ENTRANCE |
| --- EXISTING COUNTY LINE | --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) | --- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20) |
| --- POND | --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) | --- TEMPORARY ROW DIVERSION/WATER BAR (SEE DETAIL MVP-17) |
| --- WETLAND | --- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39) | --- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAIL MVP-17) |
| --- ACID FORMING MATERIAL | --- CLEAN WATER DIVERSION PIPE | |
| --- EXISTING FOREST | --- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51) | |

NOTES:

- TOPSOIL SEGREGATION WILL BE PERFORMED IN ALL IMMEDIATE CONSTRUCTION AREAS OF THE PROJECT IN ACCORDANCE WITH DETAILS MVP-ES46.1 THROUGH MVP-ES46.3.
- FLEXITERA, 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 CROSSINGS WILL BE CONDUCTED VIA CULVERTS.
- ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE.

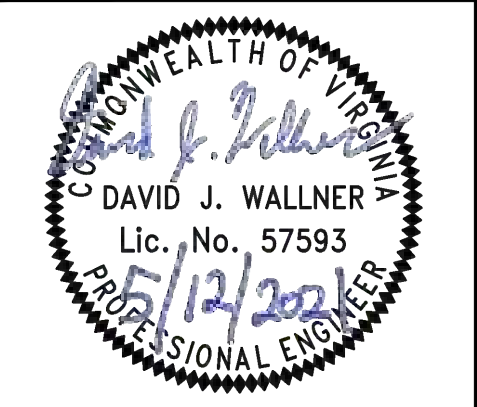
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02	03/30/22	JJZ	RE	TD	ADDRES VADEO COMMENTS TO FIELD MODIFICATION SUBMITTAL
03	06/04/21	JJZ	RE	DW	FIELD MODIFICATION - MVP-29 RELOCATED TO APPROX. MP 252.1

Mountain Valley Pipeline	EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE	
SPREAD 10 - FRANKLIN COUNTY, VIRGINIA	
MOUNTAIN VALLEY PIPELINE, LLC	
2200 ENERGY DRIVE	
CANONSBURG, PA 15317	

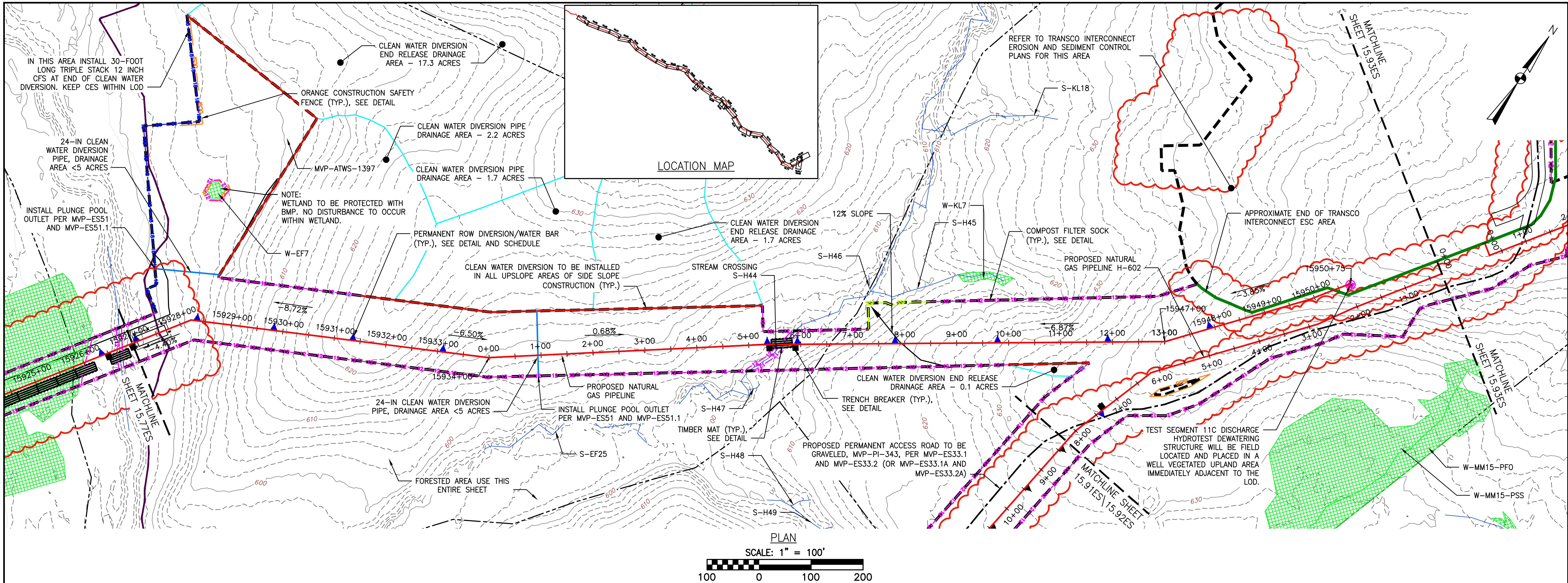
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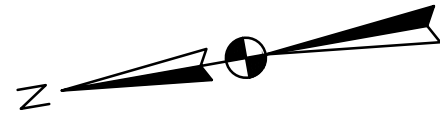
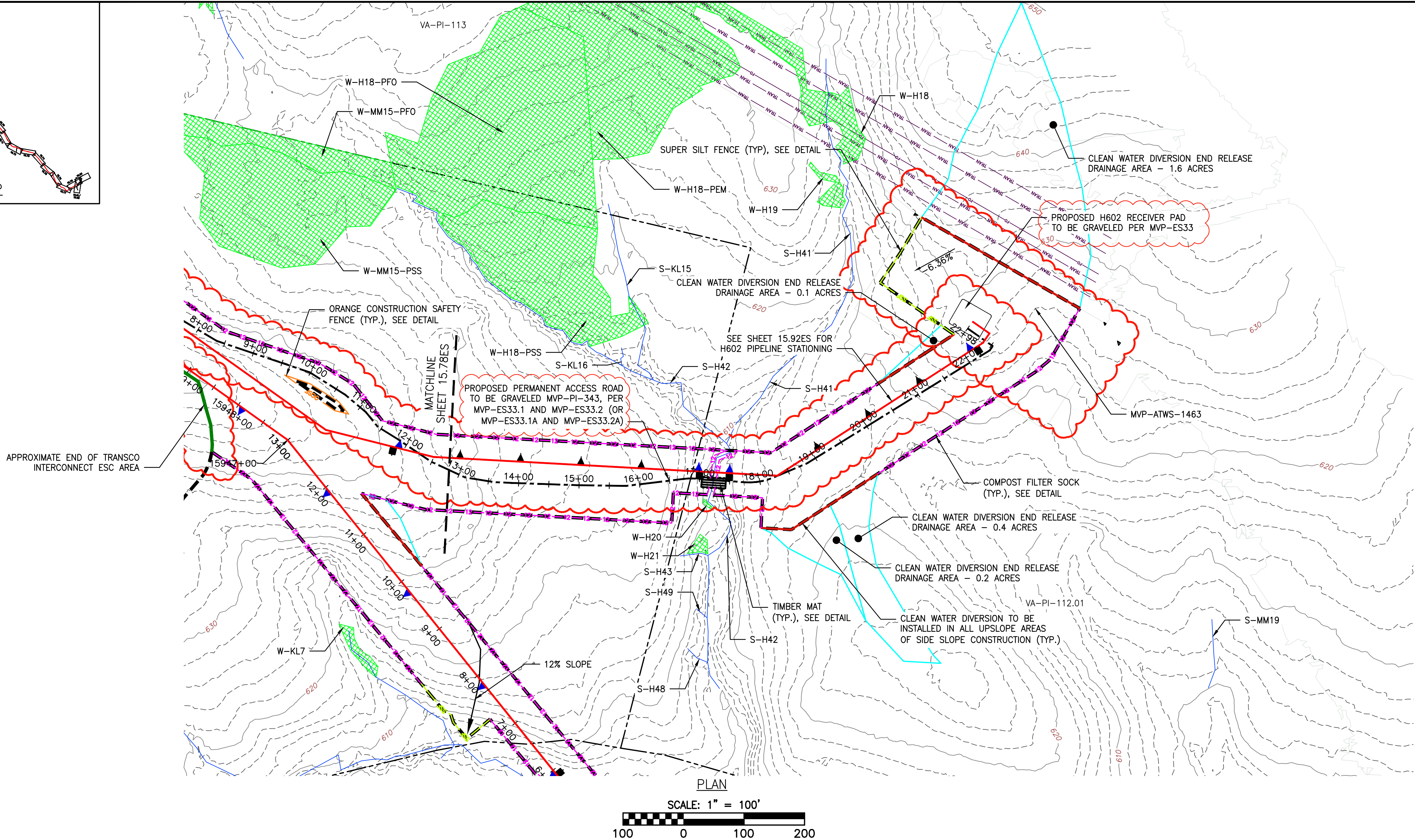
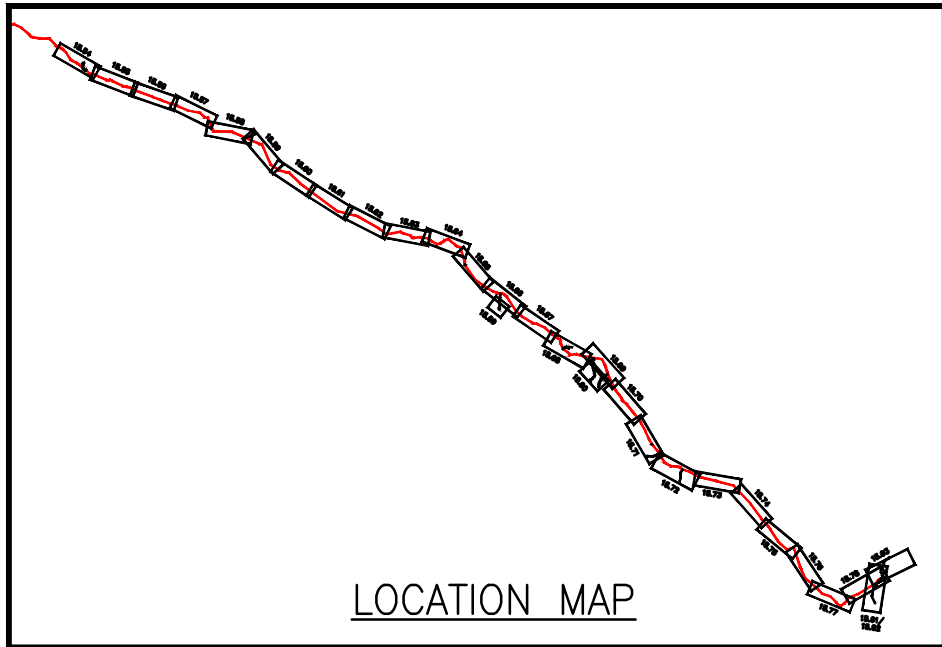
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS



DRAWN BY:	JJZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/28/2023
SCALE:	AS SHOWN
SHT. NO. 14.34AES OF 14.81ES	REVISION





LEGEND

- | | | |
|---|--|--|
| --- PROPOSED LIMIT OF DISTURBANCE | --- PROPOSED ACCESS ROAD CENTERLINE | → STREAM FLOW DIRECTION |
| --- STREAM | --- PROPOSED PIPELINE | --- FEMA 100 YEAR FLOODPLAIN |
| --- USDA FOREST SERVICE (NATIONAL FOREST) LANDS | --- PROPOSED SILT FENCE (SEE NOTE 5) | --- DRAINAGE AREA BOUNDARY |
| --- APPALACHIAN NATIONAL SCENIC TRAIL | --- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2) | --- TIMBER MAT (SEE DETAIL MVP-ES37) |
| --- EXISTING ROAD/TRAIL | --- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3) | --- STEEP SLOPE EROSION CONTROL (SEE NOTE 2) |
| --- EXISTING PROPERTY LINE | --- ORANGE CONSTRUCTION SAFETY FENCE | --- STEEP SLOPE AREAS (SEE NOTE 4) |
| --- EXISTING STATE LINE | --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) | --- PROPOSED ROCK CONSTRUCTION ENTRANCE |
| --- EXISTING COUNTY LINE | --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) | --- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20) |
| --- POND | --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) | --- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11) |
| --- WETLAND | --- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39) | --- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE) |
| --- ACID FORMING MATERIAL | --- CLEAN WATER DIVERSION PIPE | |
| --- EXISTING FOREST | --- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51) | |

NOTES:

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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. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

NO.	DATE	DWN.	APPD.	DESCRIPTION
1	05/05/22	JUZ	RE	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
2	08/22/19	JWK	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
3	04/18/19	JWK	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
4	01/21/19	JWK	RE	FIELD MODIFICATION #P 3033 (WATER RECORD SITE AND ACCESS ROAD IMP-PI-303)
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS

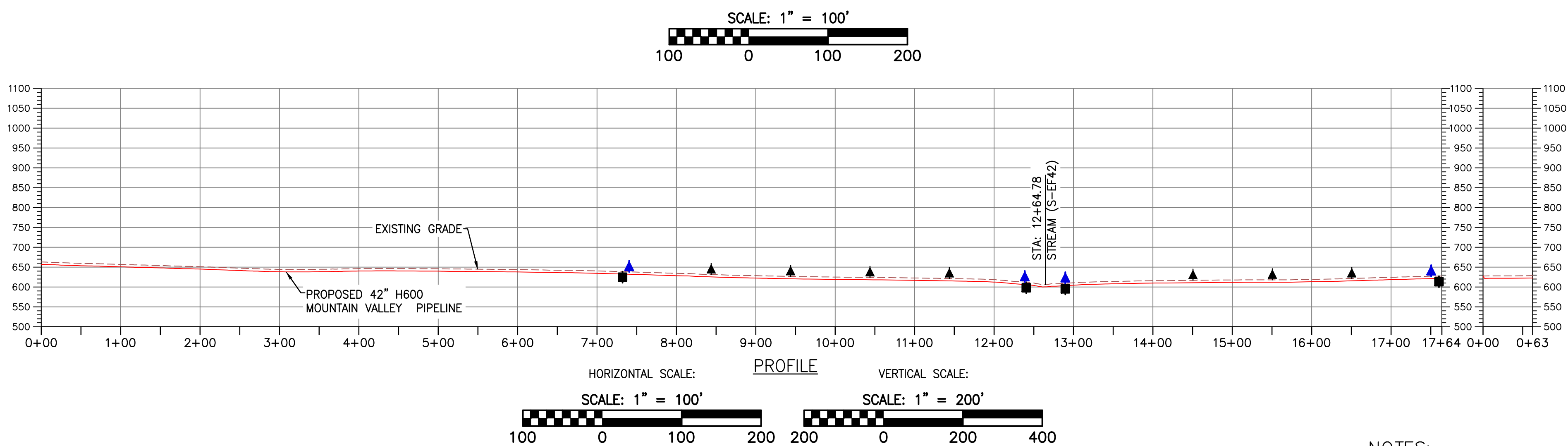
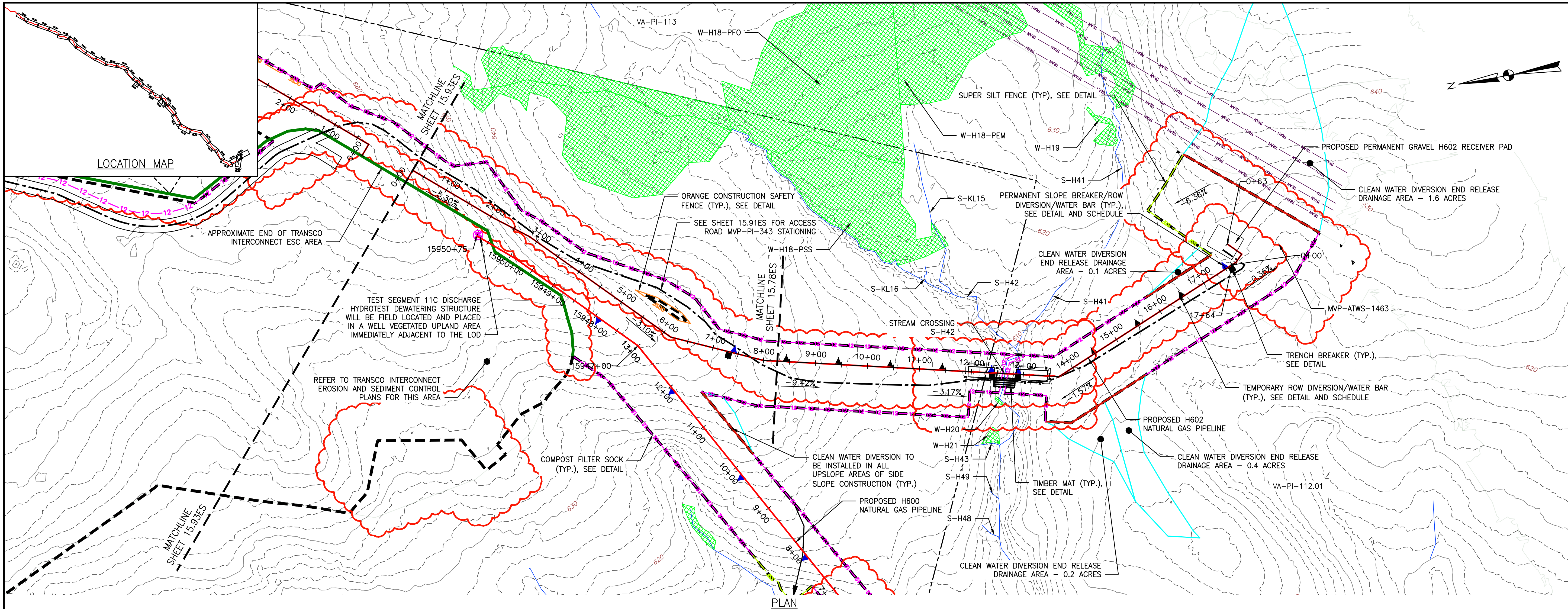
Mountain Valley Pipeline EROSION AND SEDIMENT CONTROL PLANS MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA	MOUNTAIN VALLEY PIPELINE, LLC 2200 ENERGY DRIVE CANONSBURG, PA 15317
---	--

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PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2022

DRAWN BY: JUZ
CHECKED BY: RE
APPROVED BY: TD
DATE: 05/05/2022
SCALE: AS SHOWN
SHT. NO. 15.91ES OF 15.99ES



LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- AFM --- ACID FORMING MATERIAL
- EXISTING FOREST
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SUPER SILT FENCE (SEE NOTE 5)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
- ORANGE CONSTRUCTION SAFETY FENCE
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
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- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
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- 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.
- DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
- TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
- ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

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ADDRESS REQ COMMENTS		ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL		ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL		ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL		ADDRESS VADEQ COMMENTS		DESCRIPTION	
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05/05/22	JWK	RE	RE	JWK	RE	JWK	RE	JWK	RE	DATE:	DWN:
04/18/19	JWK	RE	RE	JWK	RE	JWK	RE	JWK	RE	NO:	
01/21/19	JWK	RE	RE	JWK	RE	JWK	RE	JWK	RE		
03/16/18	KAL	RE	RE	KAL	RE	KAL	RE	KAL	RE		
REVISIONS:											

Mountain Valley Pipeline		EROSION AND SEDIMENT CONTROL PLANS		MOUNTAIN VALLEY PIPELINE PROJECT - H602 LINE	
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA		MOUNTAIN VALLEY PIPELINE, LLC		2200 ENERGY DRIVE	
				CANONSBURG, PA 15317	

TETRA TECH

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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA

DAVID J. WALLNER

Lic. No. 57593

07/28/2023

PROFESSIONAL ENGINEER

DRAWN BY: JZ

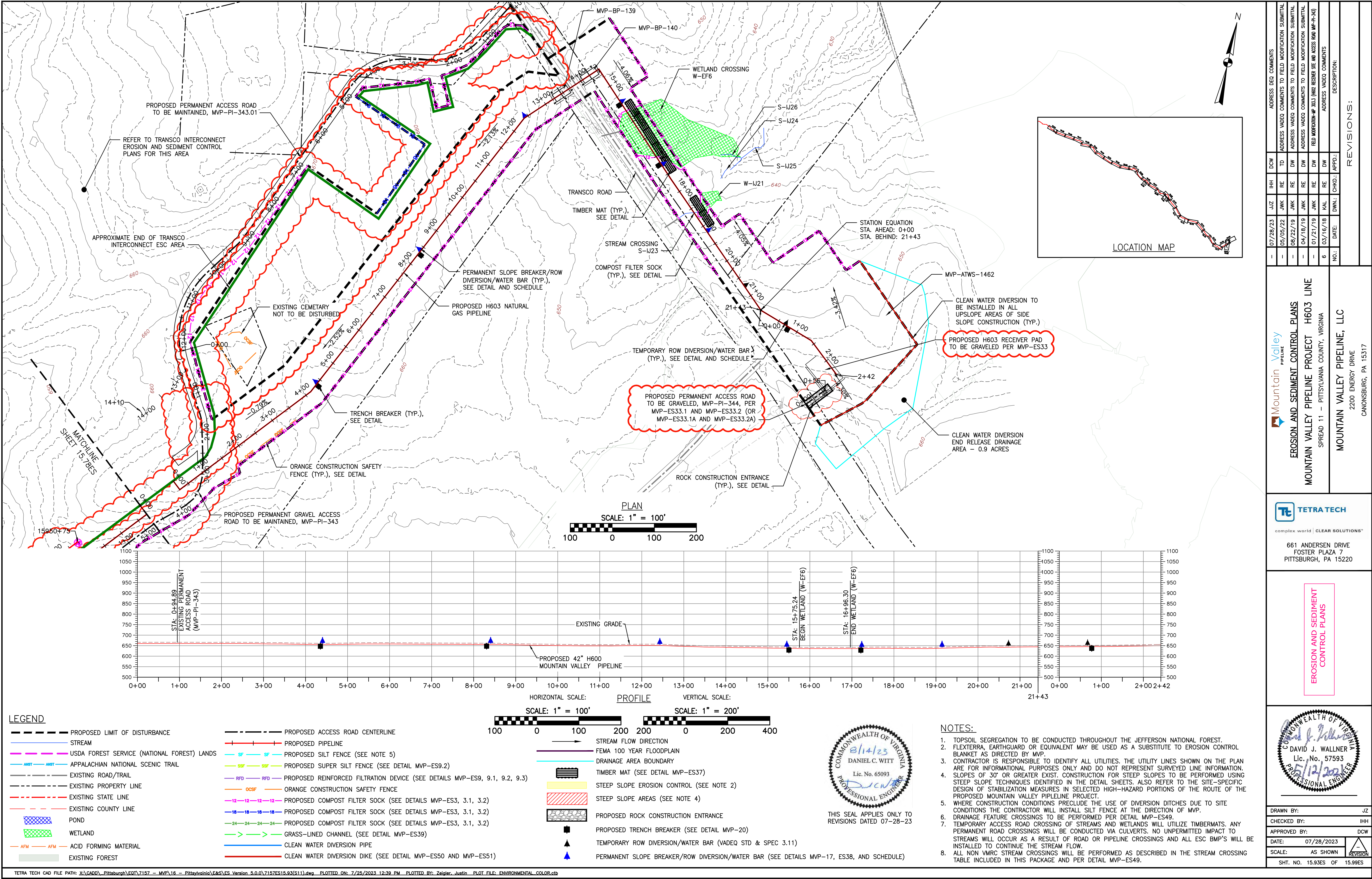
CHECKED BY: IHH

APPROVED BY: DCW

DATE: 07/28/2023

SCALE: AS SHOWN

SHT. NO. 15.92ES OF 15.99ES



ADDRESS REQ COMMENTS	DCW	IHH	JUZ	07/28/23	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL	TD	RE	05/05/22	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL	DW	RE	08/22/19	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL	DW	RE	04/18/19	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL	DW	RE	01/21/19	ADDRESS VADEQ COMMENTS	DW	RE	03/16/18	ADDRESS VADEQ COMMENTS	DW	RE	NO.	DATE	DWN.	APPRO.	REVISIONS:



Mountain Valley Pipeline

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT H603 LINE

SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

2200 ENERGY DRIVE

CANONSBURG, PA 15317



TETRA TECH

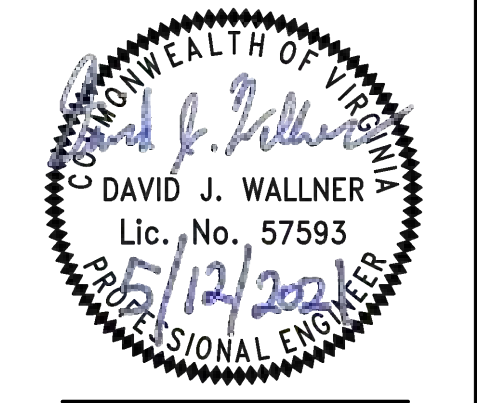
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EROSION AND SEDIMENT CONTROL PLANS



DAVID J. WALLNER

Lic. No. 57593

12/2022

DRAWN BY: JZ

CHECKED BY: IHH

APPROVED BY: DCW

DATE: 07/28/2023

SCALE: AS SHOWN

SHT. NO. 15.93ES OF 15.99ES