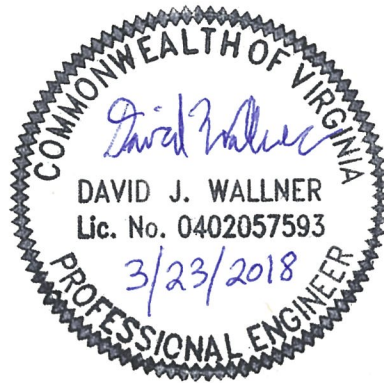
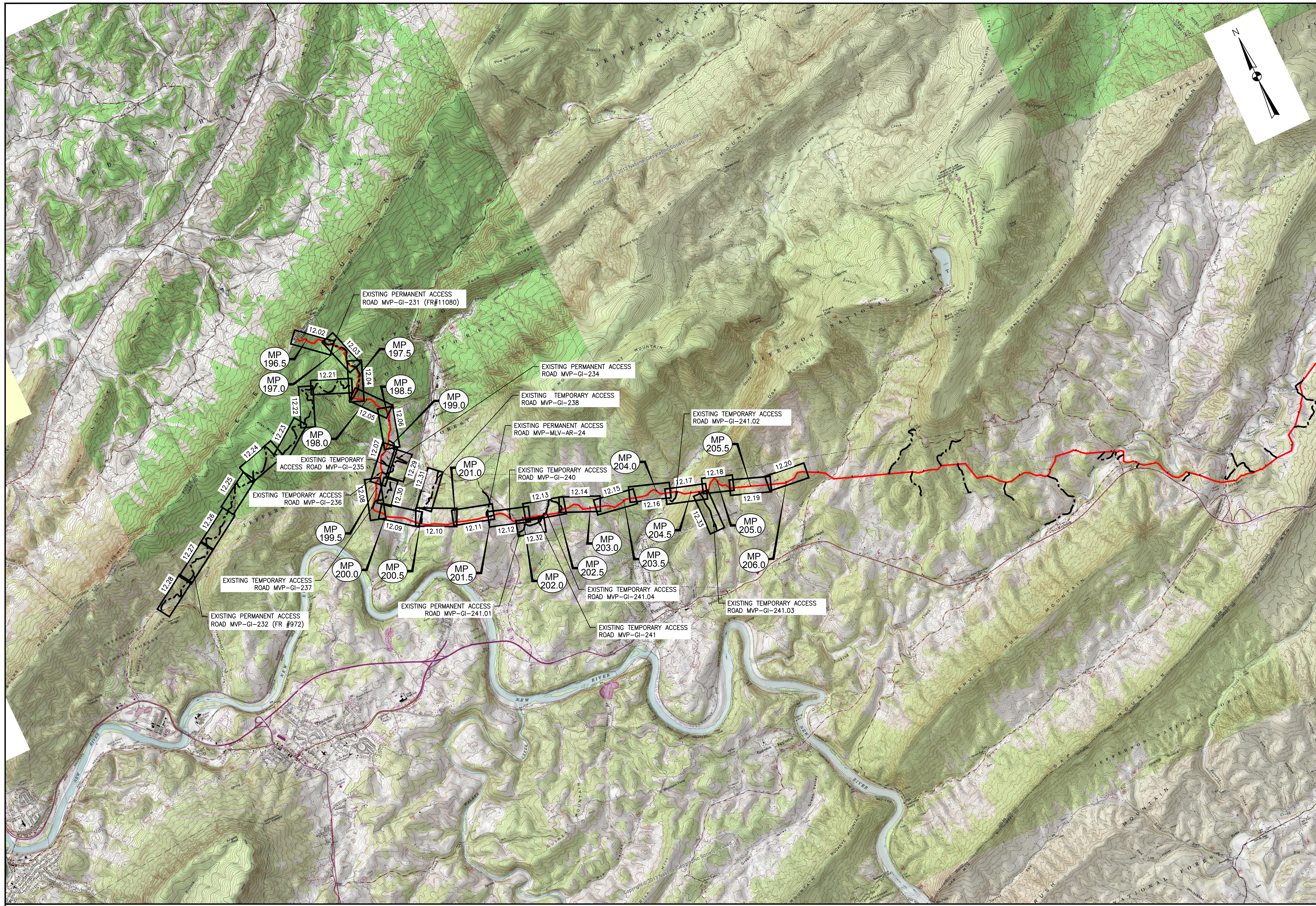



By virtue of this seal and signature, all supporting documents included in this package are accurate and support the design presented herein.





NO.	DATE	DW	RE	CHD	APPD	DESCRIPTION
8	02/26/18	KAL	RE	DW		ADDRESS VADEO COMMENTS
7	02/22/18	KAL	RE	DW		ADDRESS VADEO COMMENTS
6	01/26/18	KAL	RE	DW		ADDRESS VADEO COMMENTS
5	01/07/18	KAL	RE	DW		ADDRESS VADEO COMMENTS
4	11/28/17	KAL	RE	DW		ADDRESS VADEO COMMENTS
3	11/01/17	KAL	RE	DW		ADDRESS VADEO COMMENTS



KEY PLAN

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE

 SPREAD 8 - GILES COUNTY, VIRGINIA

REVISIONS:

 MOUNTAIN VALLEY PIPELINE, LLC

 555 SOUTHPOINTE BOULEVARD, SUITE 200

 CANONSBURG, PA 15311


TETRA TECH

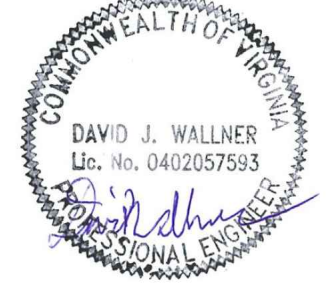
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661 ANDERSEN DRIVE

 FOSTER PLAZA 7

 PITTSBURGH, PA 15220

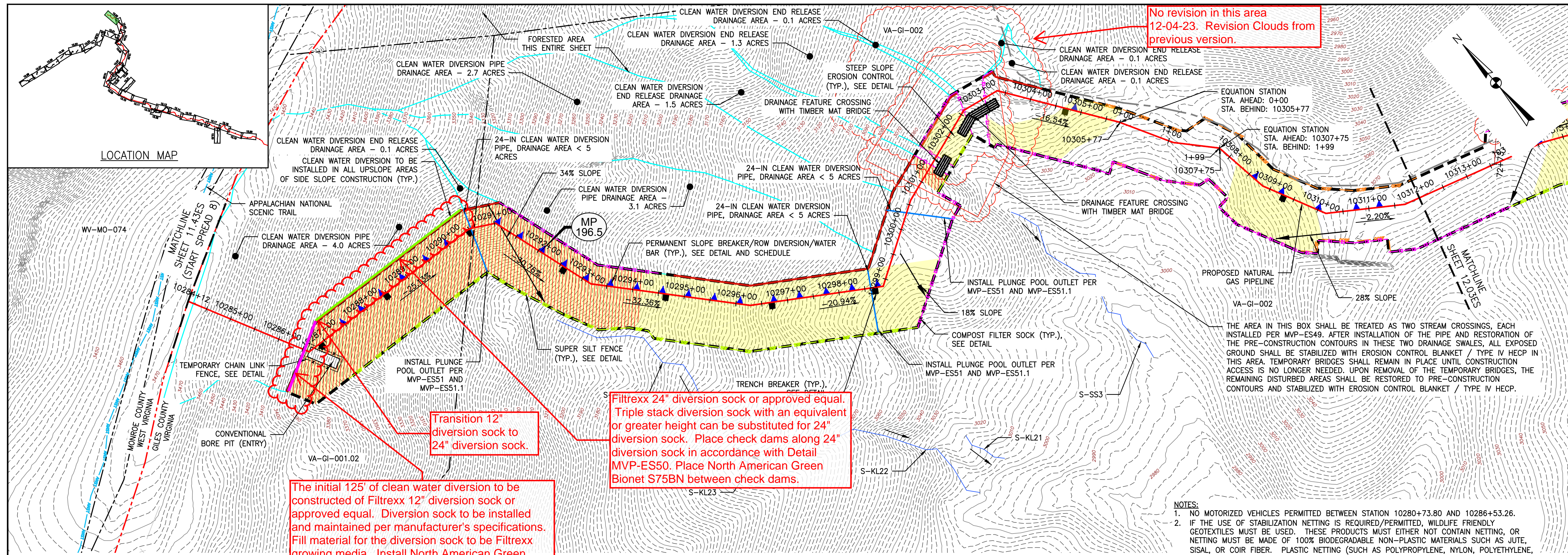
EROSION AND SEDIMENT CONTROL PLANS



 DAVID J. WALLNER

 Lic. No. 0402057593

DRAWN BY:	LJK
CHECKED BY:	JDO
APPROVED BY:	TJH
DATE:	02/26/2018
SCALE:	NONE
SHT. NO.	12.01ES OF 12.33ES

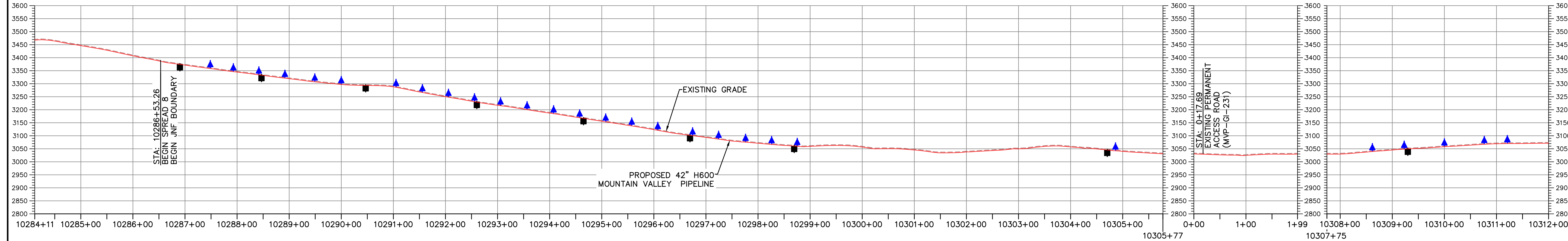
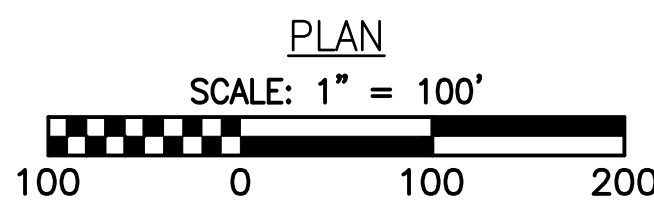


No revision in this area 12-04-23. Revision Clouds from previous version.

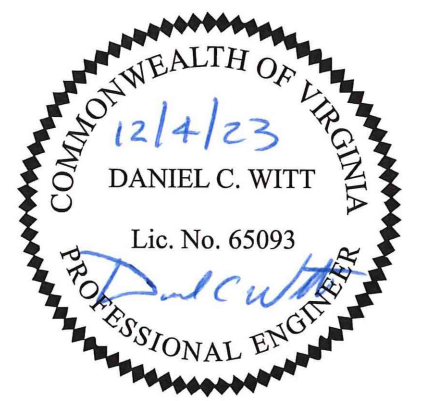
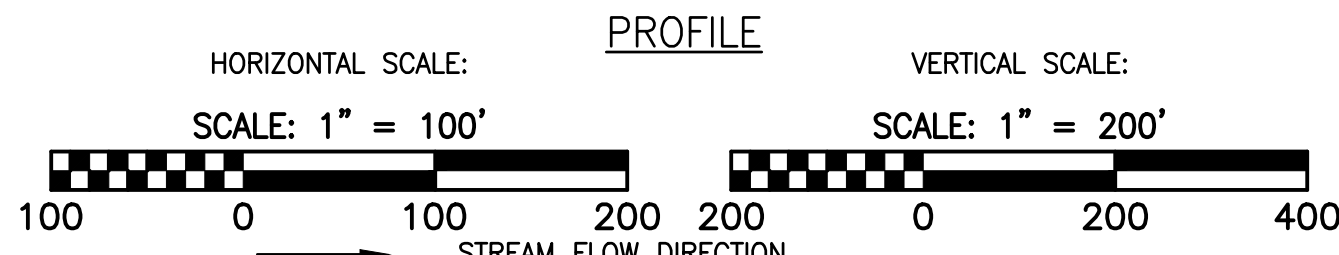
The initial 125' of clean water diversion to be constructed of Filtraxx 12" diversion sock or approved equal. Diversion sock to be installed and maintained per manufacturer's specifications. Fill material for the diversion sock to be Filtraxx growing media. Install North American Green Bionet S75BN erosion control blanket, or approved equal, 3' wide above diversion sock to protect flow path from erosion.

Filtraxx 24" diversion sock or approved equal. Triple stack diversion sock with an equivalent or greater height can be substituted for 24" diversion sock. Place check dams along 24" diversion sock in accordance with Detail MVP-ES50. Place North American Green Bionet S75BN between check dams.

- NOTES:
- NO MOTORIZED VEHICLES PERMITTED BETWEEN STATION 10280+73.80 AND 10286+53.26.
 - IF THE USE OF STABILIZATION NETTING IS REQUIRED/PERMITTED, WILDLIFE FRIENDLY GEOTEXTILES MUST BE USED. THESE PRODUCTS MUST EITHER NOT CONTAIN NETTING, OR NETTING MUST BE MADE OF 100% BIODEGRADABLE NON-PLASTIC MATERIALS SUCH AS JUTE, SISAL, OR COIR FIBER. PLASTIC NETTING (SUCH AS POLYPROPYLENE, NYLON, POLYETHYLENE, AND POLYESTER), EVEN IF ADVERTISED AS BIODEGRADABLE, IS NOT AN ACCEPTABLE ALTERNATIVE. ANY NETTING USED MUST ALSO HAVE A LOOSE-WEAVE DESIGN WITH MOVABLE JOINTS BETWEEN HORIZONTAL AND VERTICAL TWINES TO REDUCE THE CHANCE FOR WILDLIFE ENTANGLEMENT, INJURY, OR DEATH. (CA COASTAL COMMISSION, 2012)



- 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
 - ACID FORMING MATERIAL
 - AGRICULTURAL LAND USE BOUNDARY
 - PROPOSED ACCESS ROAD CENTERLINE
 - PROPOSED PIPELINE
 - PROPOSED 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)
 - PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
 - 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)
 - 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)



No revision in this area 12-04-23. Revision Clouds from previous version.

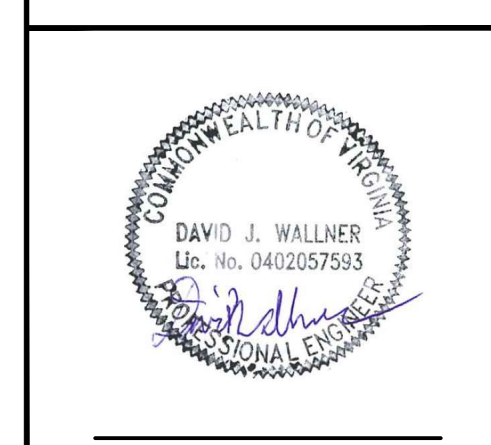
- NOTES:
- TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
 - FLEXTEERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
 - CONTRACTOR IS RESPONSIBLE TO IDENTIFY ALL UTILITIES. THE UTILITY LINES SHOWN ON THE PLAN ARE FOR 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 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.
 - 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	CHKD.	APPD.	DESCRIPTION
1	12/04/23	IHH	JUZ	EXTEND DIVERSION TYPE ABOVE BORE
2	11/17/23	IHH	JUZ	REVISE DIVERSION TYPE ABOVE BORE
3	02/26/18	RE	DW	ADDRESS VADEQ COMMENTS
4	02/22/18	RE	DW	ADDRESS VADEQ COMMENTS
5	01/26/18	RE	DW	ADDRESS VADEQ COMMENTS
6	01/26/18	RE	DW	ADDRESS VADEQ COMMENTS

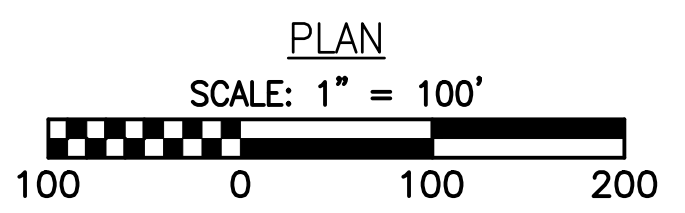
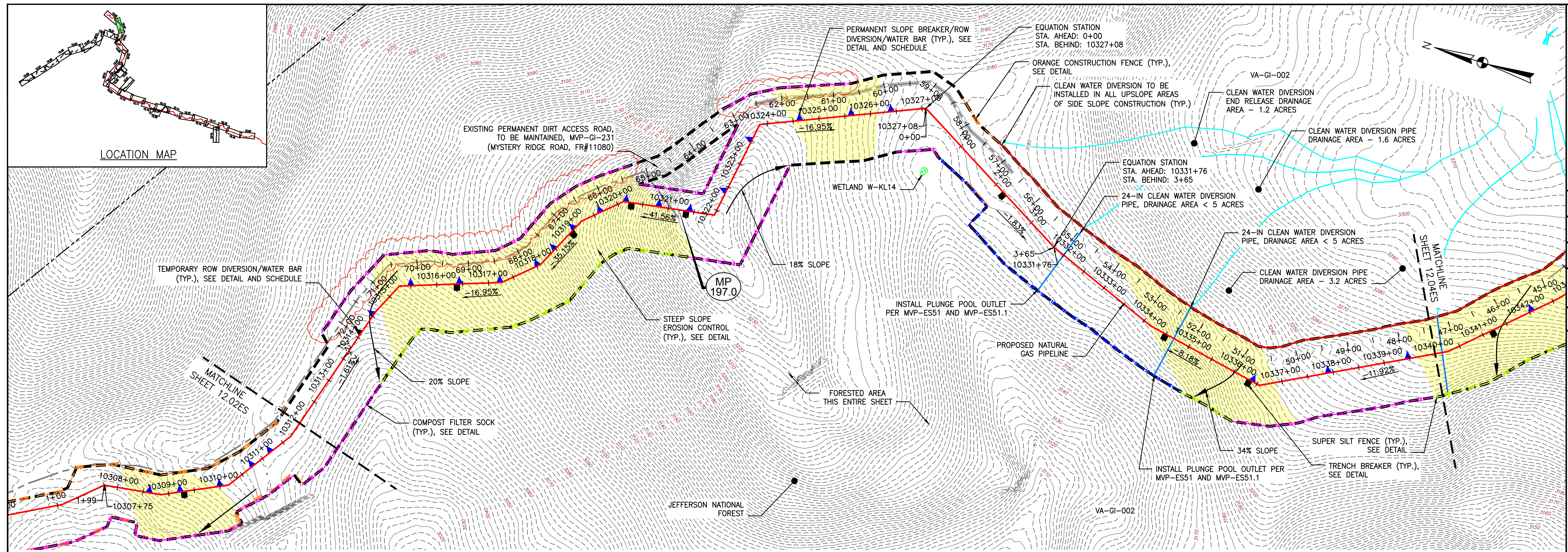
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
 MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
 MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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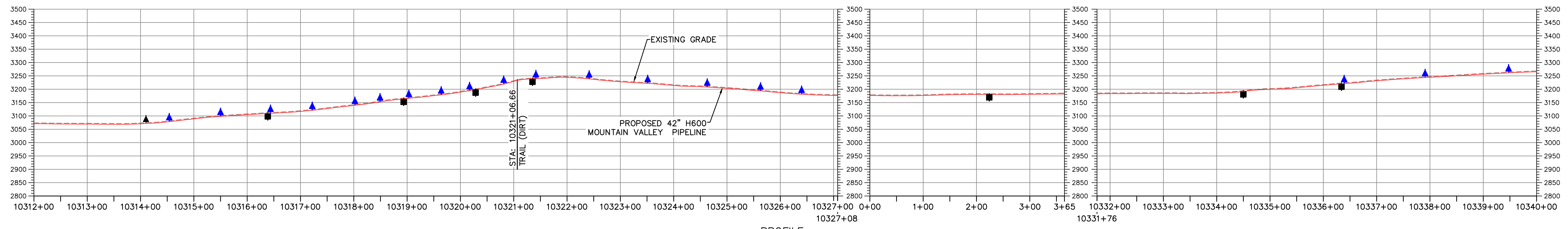
EROSION AND SEDIMENT CONTROL PLANS



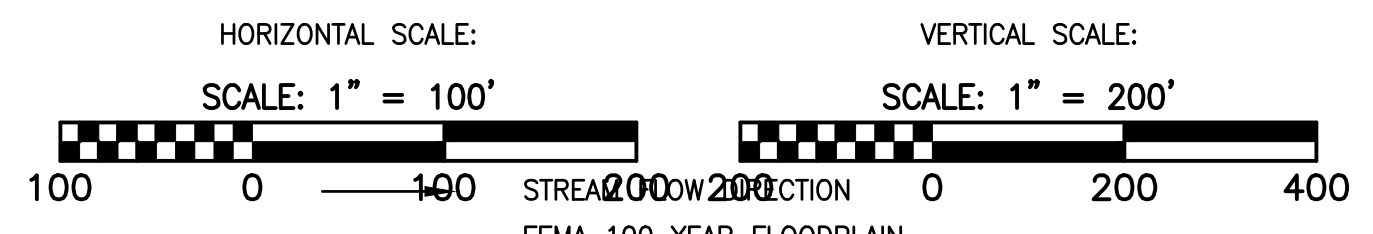
DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	02/26/2018
SCALE:	AS SHOWN
SHT. NO.	12.02ES OF 12.34ES



NOTE:
 IF THE USE OF STABILIZATION NETTING IS REQUIRED/PERMITTED, WILDLIFE FRIENDLY GEOTEXTILES MUST BE USED. THESE PRODUCTS MUST EITHER NOT CONTAIN NETTING, OR NETTING MUST BE MADE OF 100% BIODEGRADABLE NON-PLASTIC MATERIALS SUCH AS JUTE, SISAL, OR COIR FIBER. PLASTIC NETTING (SUCH AS POLYPROPYLENE, NYLON, POLYETHYLENE, AND POLYESTER), EVEN IF ADVERTISED AS BIODEGRADABLE, IS NOT AN ACCEPTABLE ALTERNATIVE. ANY NETTING USED MUST ALSO HAVE A LOOSE-WEAVE DESIGN WITH MOVABLE JOINTS BETWEEN HORIZONTAL AND VERTICAL TWINES TO REDUCE THE CHANCE FOR WILDLIFE ENTANGLEMENT, INJURY, OR DEATH. (CA COASTAL COMMISSION, 2012)



PROFILE



LEGEND

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> --- 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 --- ACID FORMING MATERIAL --- AGRICULTURAL LAND USE BOUNDARY | <ul style="list-style-type: none"> --- PROPOSED ACCESS ROAD CENTERLINE --- PROPOSED PIPELINE --- PROPOSED 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) --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) --- 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) | <ul style="list-style-type: none"> --- 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) |
|---|--|---|

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
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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.
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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 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.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	02/26/18	KAL	DW	ADDRESS VADEQ COMMENTS
7	02/22/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	01/26/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

REVISIONS:

NO.	DATE	CHKD.	APPD.	DESCRIPTION

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

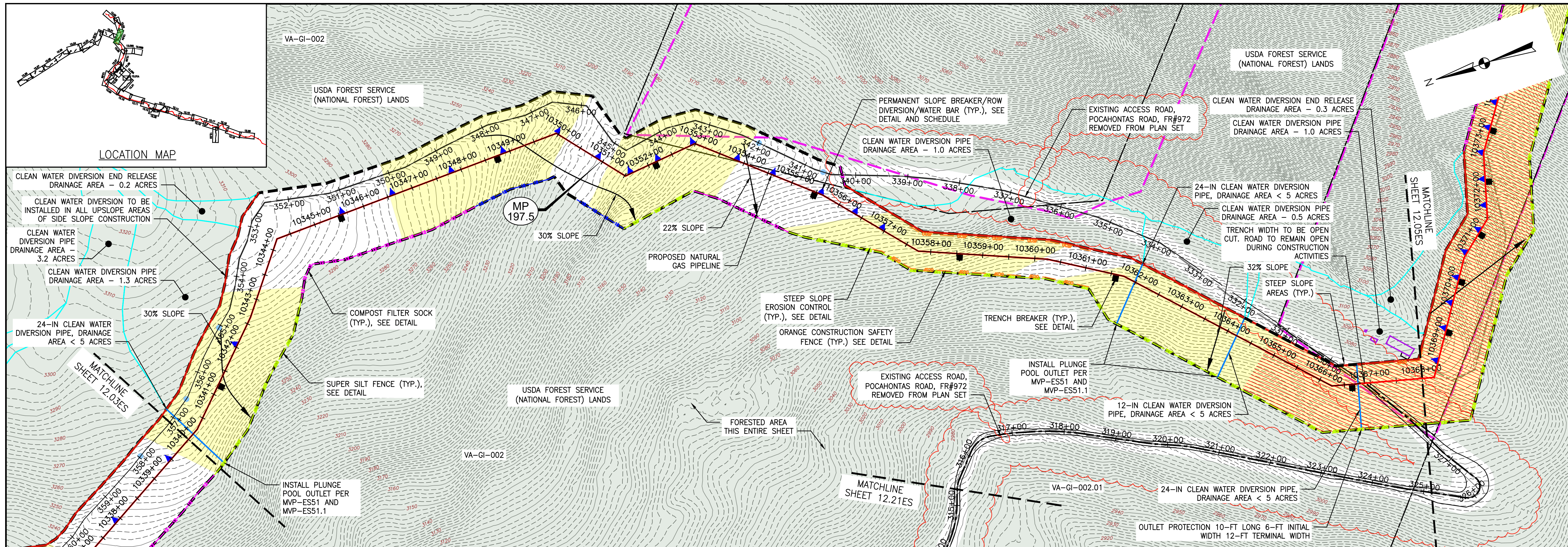
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

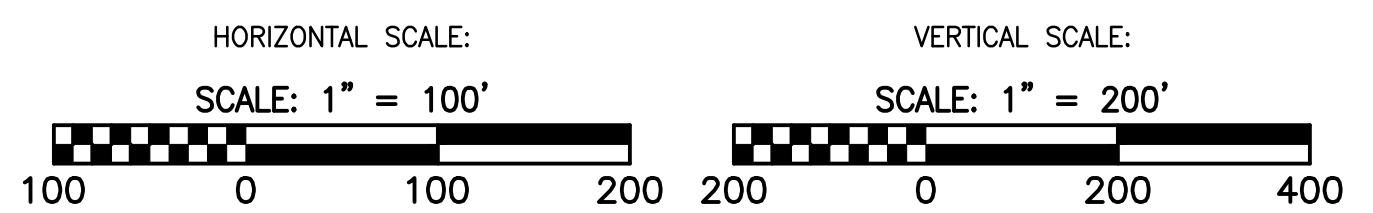
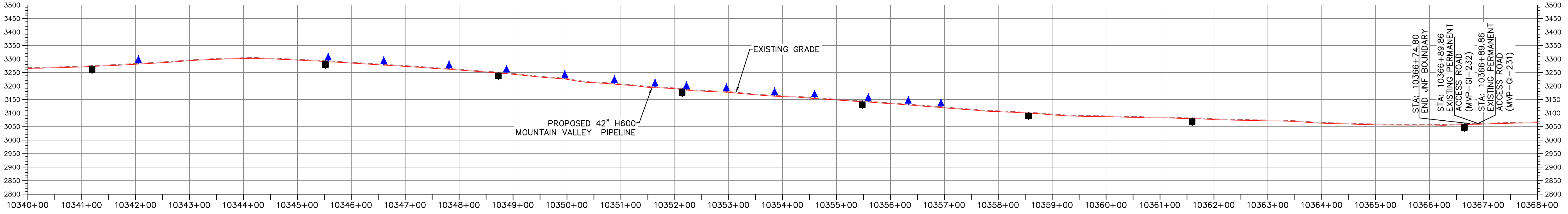
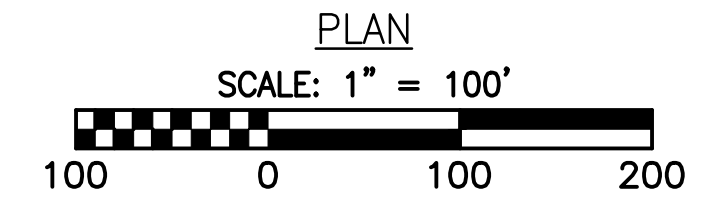
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF PENNSYLVANIA
 DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 02/26/2018
 SCALE: AS SHOWN
 SHT. NO. 12.03ES OF 12.34ES



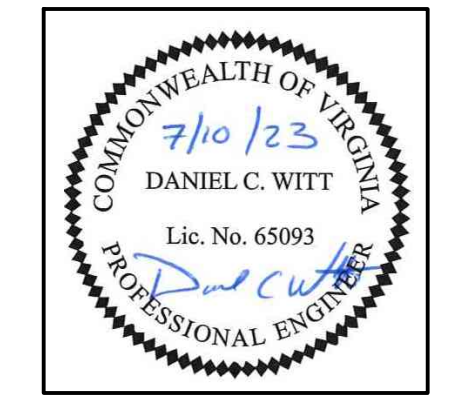
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LEGEND

	PROPOSED LIMIT OF DISTURBANCE		PHASE 1 LIMIT OF DISTURBANCE
	STREAM		PROPOSED ACCESS ROAD CENTERLINE
	USDA FOREST SERVICE (NATIONAL FOREST) LANDS		PROPOSED PIPELINE
	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		PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
	EXISTING STATE LINE		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)
	ACID FORMING MATERIAL		GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
	EXISTING FOREST		CLEAN WATER DIVERSION PIPE

	AREA EXCLUDED FROM PHASE 1 LOD		STREAM FLOW DIRECTION
	PHASE 1 LIMIT OF DISTURBANCE		FEMA 100 YEAR FLOODPLAIN
	PROPOSED ACCESS ROAD CENTERLINE		DRAINAGE AREA BOUNDARY
	PROPOSED PIPELINE		TIMBER MAT (SEE DETAIL MVP-ES37)
	PROPOSED SILT FENCE (SEE NOTE 5)		STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
	PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)		STEEP SLOPE AREAS (SEE NOTE 4)
	PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)		PROPOSED ROCK CONSTRUCTION ENTRANCE
	ORANGE CONSTRUCTION SAFETY FENCE		PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
	PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)		TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)
	PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)		PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)
	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)		



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

- NOTES:**
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
1	07/07/23	JUZ	IHH	DCW	REDLINE TO REMOVE POCAHONTAS ROAD
2	02/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	01/23/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
6	11/28/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS

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

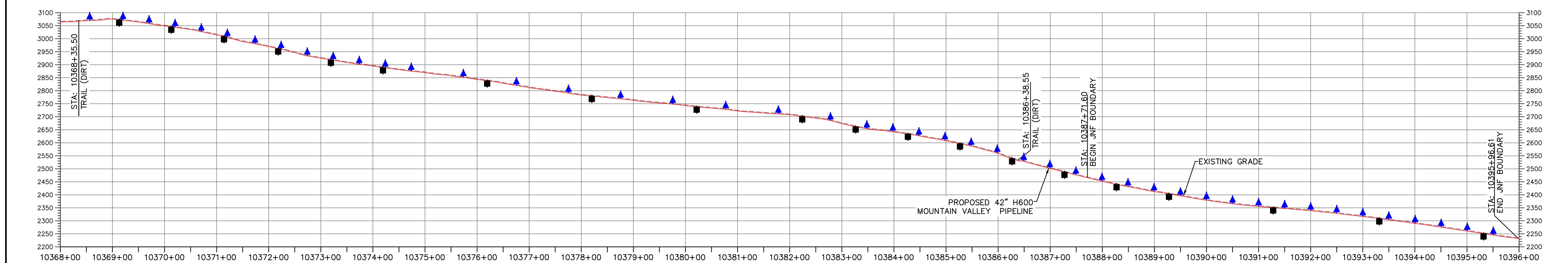
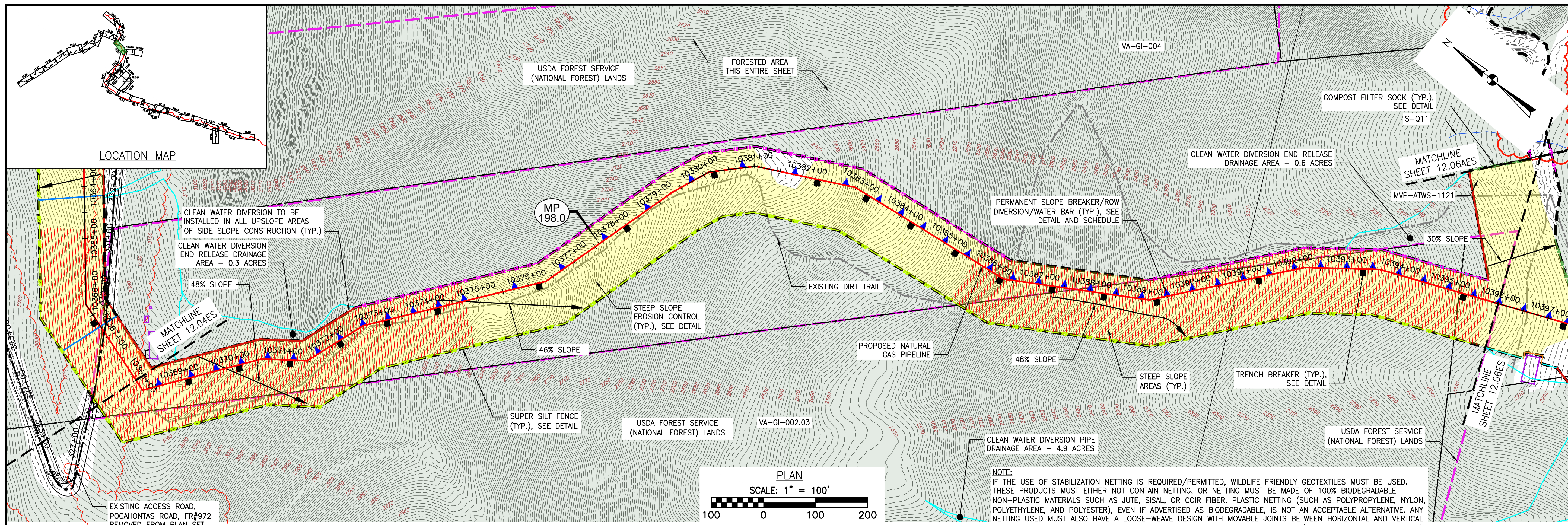
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 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
 DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: JUZ
 CHECKED BY: IHH
 APPROVED BY: DCW
 DATE: 07/07/2023
 SCALE: AS SHOWN
 SHEET NO. 12.04ES OF 12.34ES



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
	ACID FORMING MATERIAL
	EXISTING FOREST

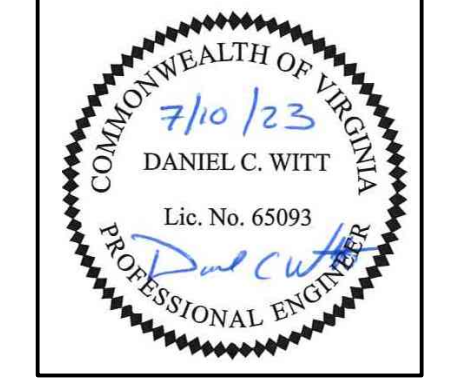
	AREA EXCLUDED FROM PHASE 1 LOD
	PHASE 1 LIMIT OF DISTURBANCE
	PROPOSED ACCESS ROAD CENTERLINE
	PROPOSED PIPELINE
	PROPOSED SILT FENCE (SEE NOTE 5)
	PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
	PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
	ORANGE CONSTRUCTION SAFETY FENCE
	PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
	PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
	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)

PROFILE

HORIZONTAL SCALE: 1" = 100'

VERTICAL SCALE: 1" = 200'

	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)



- 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.
 - DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
 - 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.
 - 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	BY	CHKD.	APPD.	DESCRIPTION
1	07/07/23	JUZ	IHH	DCW	REVISION TO REMOVE POCAHONTAS ROAD
2	02/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	01/23/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
6	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
7	02/22/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
8	02/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

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

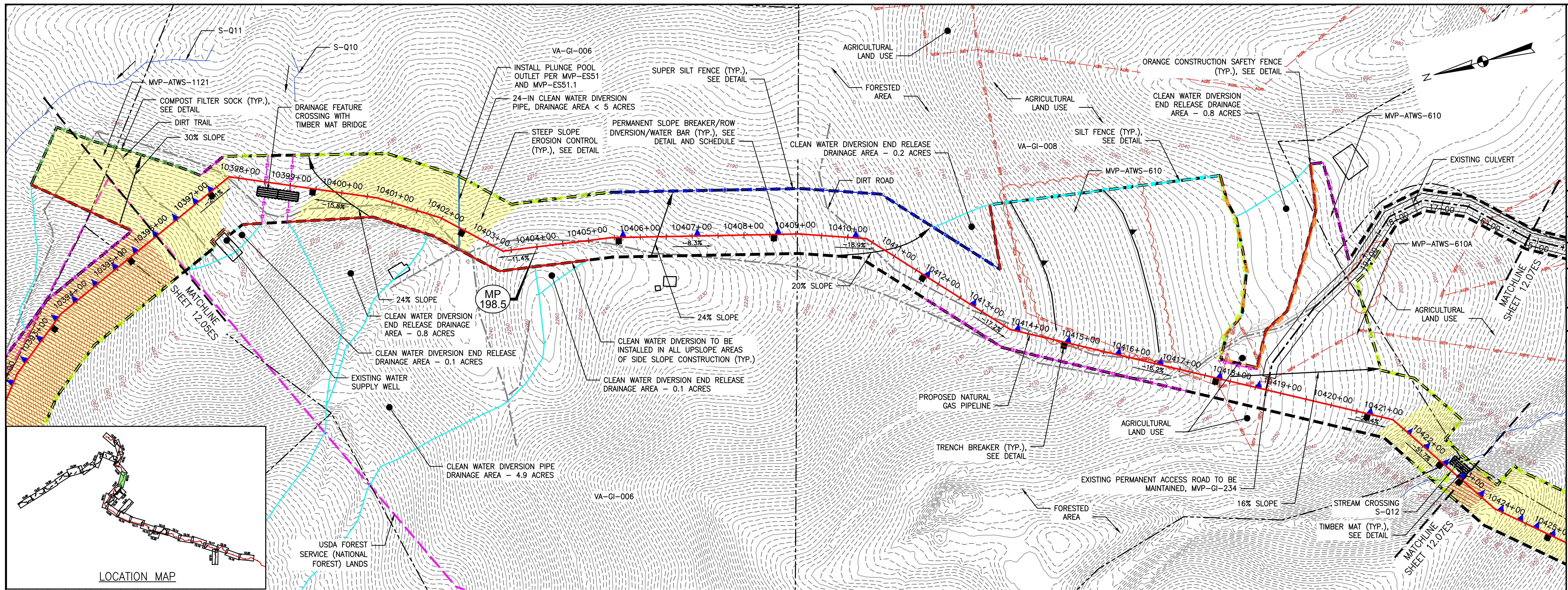
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

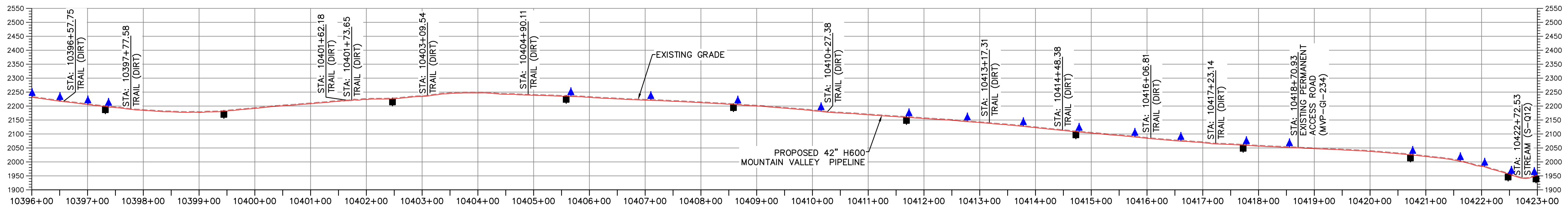
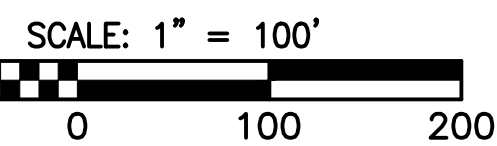
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
 DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/07/2023
SCALE:	AS SHOWN
SHT. NO. 12.05ES OF 12.34ES	REVISION



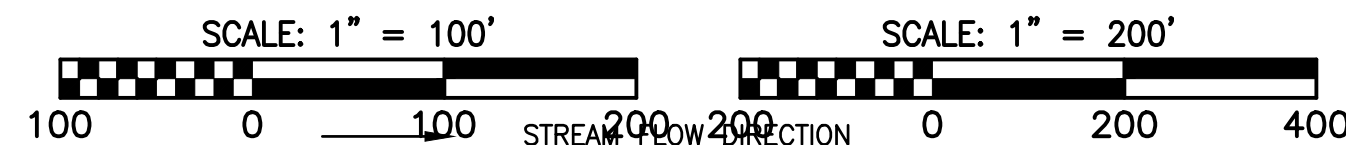
PLAN



PROFILE

HORIZONTAL SCALE:

VERTICAL SCALE:



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
- AGR --- AGRICULTURAL LAND USE BOUNDARY
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- 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)
- 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)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- 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)

NOTES:

1. 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.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	02/26/18	KAL	RE	ADDRESS VADEQ COMMENTS
7	02/22/18	KAL	RE	ADDRESS VADEQ COMMENTS
6	01/26/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	RE	ADDRESS VADEQ COMMENTS
4	11/28/17	KAL	RE	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	RE	ADDRESS VADEQ COMMENTS

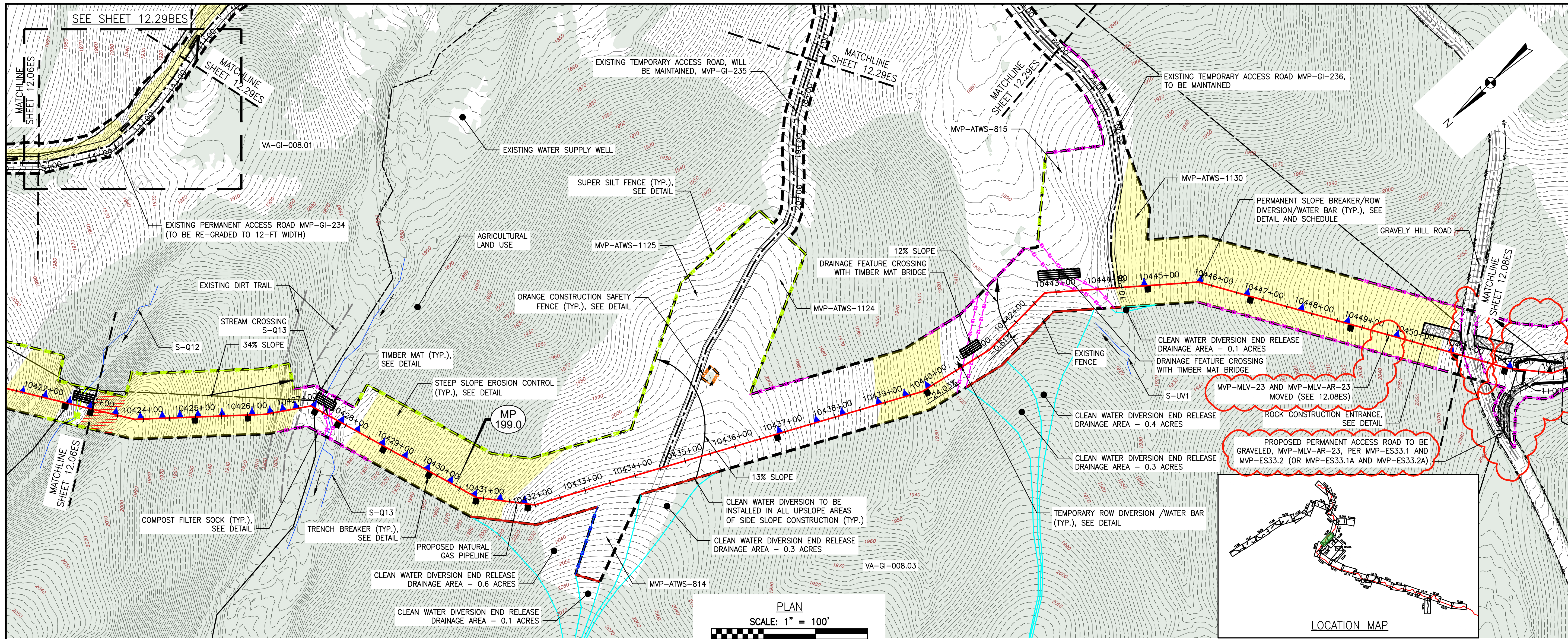
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

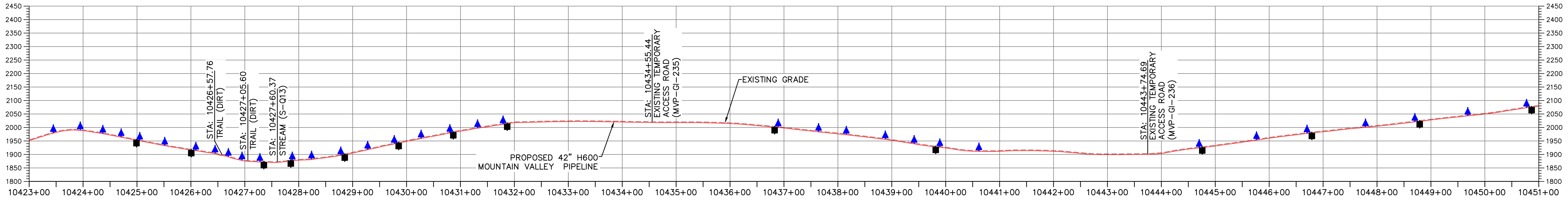
EROSION AND SEDIMENT CONTROL PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 02/26/2018
 SCALE: AS SHOWN
 SHEET NO. 12.06ES OF 12.34ES



PLAN
SCALE: 1" = 100'



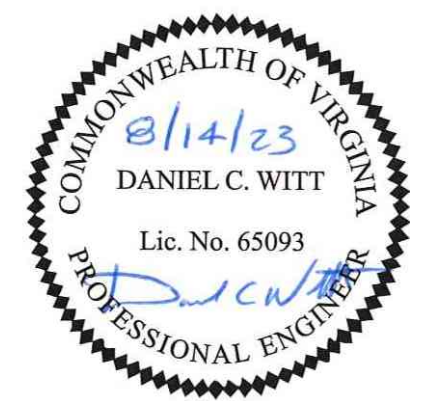
PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'
VERTICAL SCALE: SCALE: 1" = 200'

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
- ORCSF 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:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	07/31/23	JUZ	DCW	UPDATE BAFFLE SPACING FOR RELOCATION OF MLV-23
2	12/07/22	MJP	RE	REVISED - HP 1965 (MVP-23 SITE AND ACCESS ROAD MVP-AR-23)
3	01/29/19	JWK	RE	ADDRESS VADEQ COMMENTS
4	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	02/26/18	KAL	RE	ADDRESS VADEQ COMMENTS
6	02/22/18	KAL	RE	ADDRESS VADEQ COMMENTS

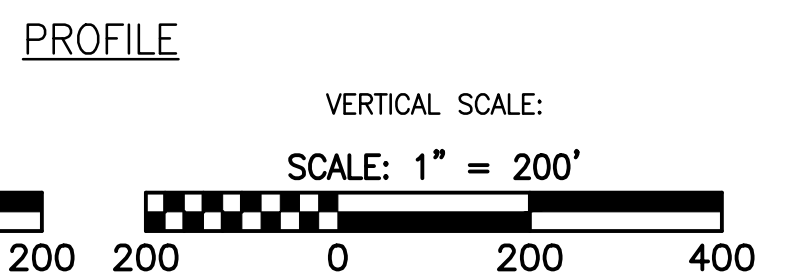
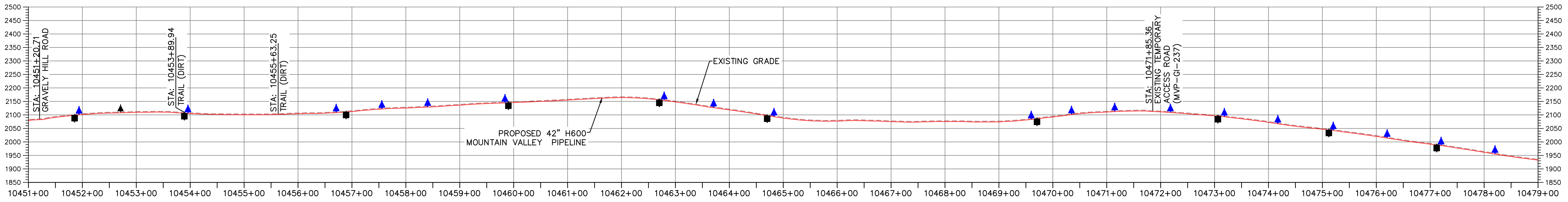
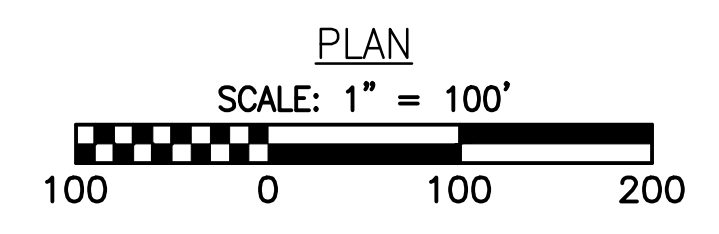
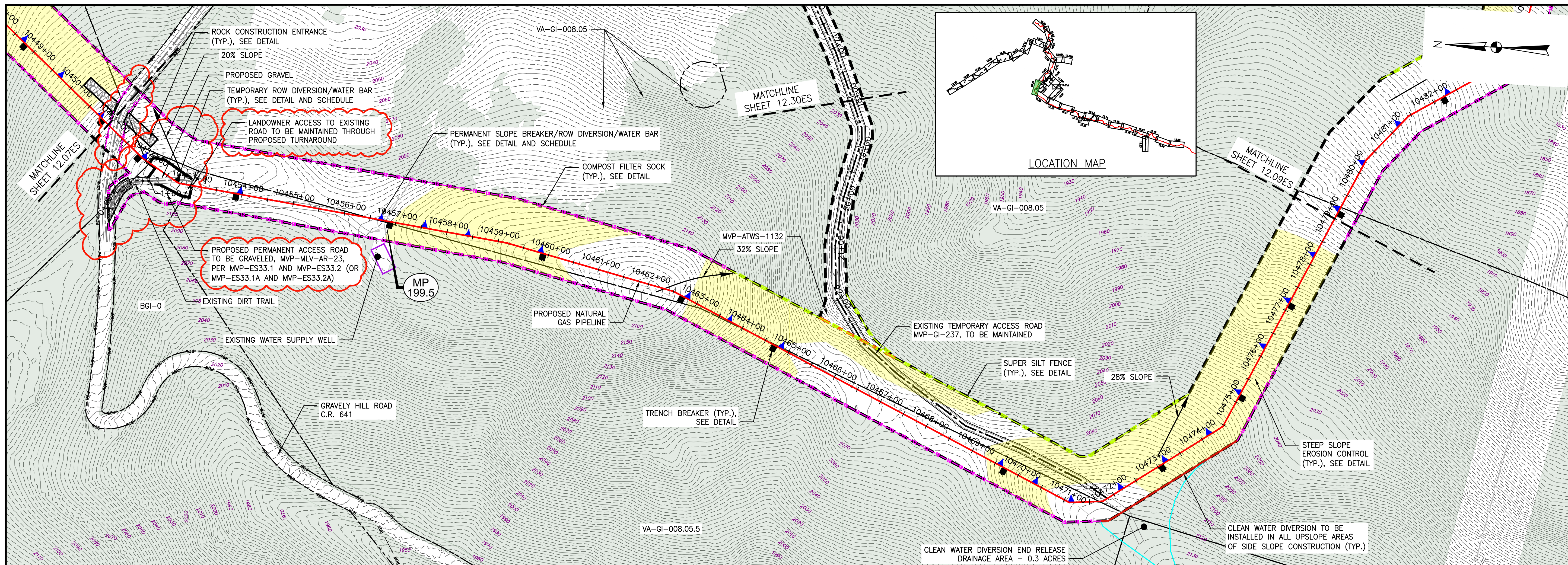
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15311

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PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

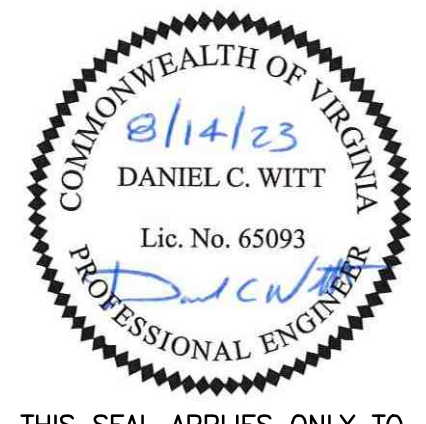
COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/31/2023
SCALE:	AS SHOWN
SHT. NO. 12.07ES OF 12.34ES	REVISION



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

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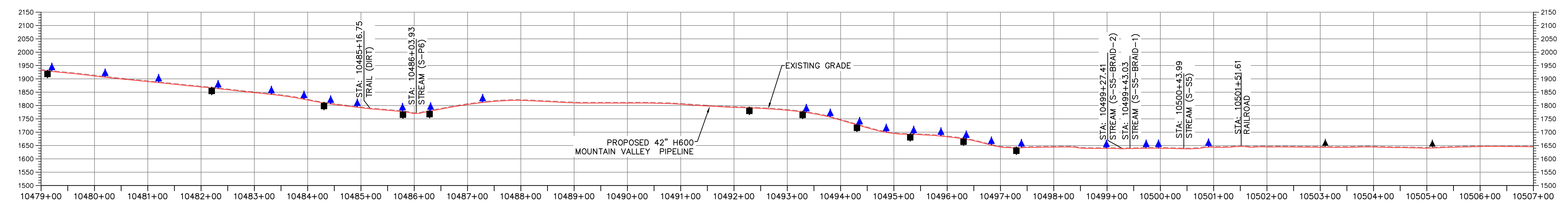
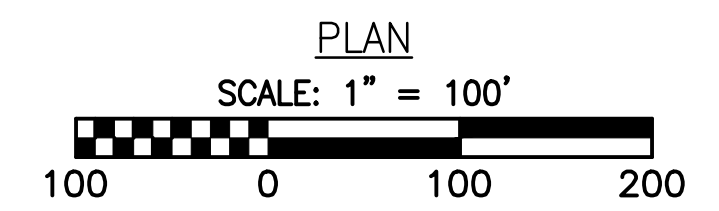
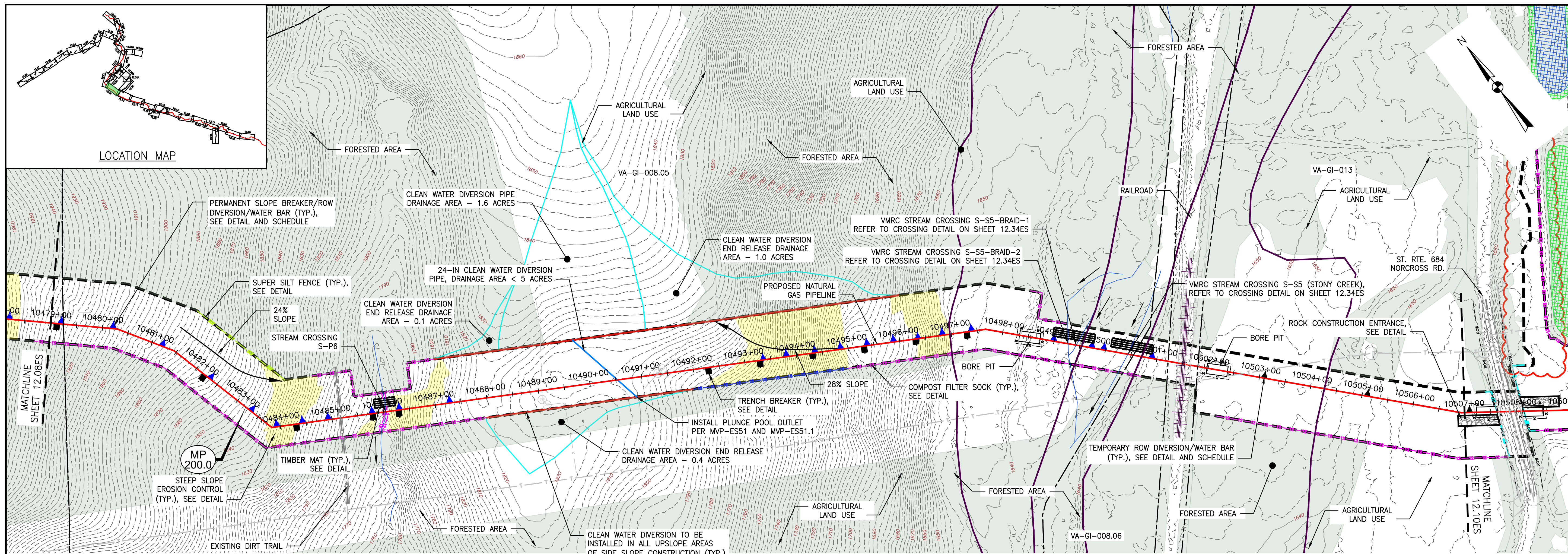
ADDRESS BAFFLE SPACING FOR RELOCATION OF MLV-23		ADDRESS VADEQ COMMENTS		ADDRESS VADEQ COMMENTS		ADDRESS VADEQ COMMENTS	
NO.	DATE	CHKD.	APPD.	NO.	DATE	CHKD.	APPD.
1	07/31/23	JUZ	IHH	1	07/31/23	JUZ	IHH
2	12/07/22	MJP	RE	2	12/07/22	MJP	RE
3	01/29/19	JWK	RE	3	01/29/19	JWK	RE
4	03/16/18	KAL	RE	4	03/16/18	KAL	RE
5	02/26/18	KAL	RE	5	02/26/18	KAL	RE
6	02/22/18	KAL	RE	6	02/22/18	KAL	RE

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

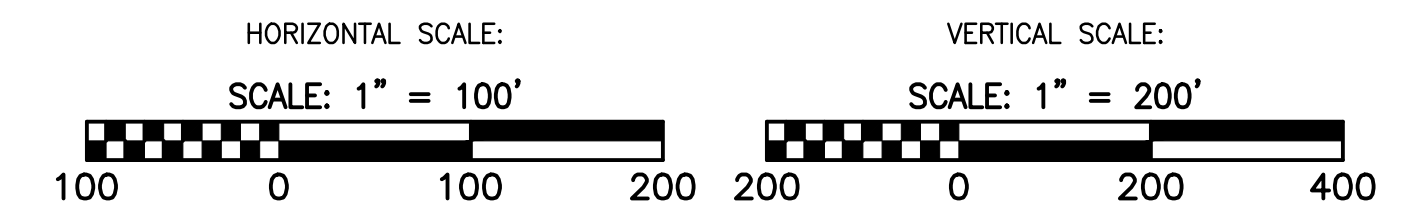
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/31/2023
SCALE:	AS SHOWN
SHT. NO. 12.08ES OF 12.34ES	REVISION



PROFILE



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
	ACID FORMING MATERIAL
	EXISTING FOREST

	AREA EXCLUDED FROM PHASE 1 LOD
	PHASE 1 LIMIT OF DISTURBANCE
	PROPOSED ACCESS ROAD CENTERLINE
	PROPOSED PIPELINE
	PROPOSED 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)
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	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
	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 PE SEAL APPLIES ONLY TO REVISIONS DATED 08-03-2023

NOTES:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	08/03/23	JUZ	IHH	REVISE CRB LIMITS TO AVOID TREES
2	06/10/19	GAR	RE	ADDED EXISTING ROAD EDGES PER SURVEY
3	06/07/19	GAR	RE	ADDRESS VADER COMMENTS TO G-5 FIELD MODIFICATION SUBMITAL
4	02/09/19	JMK	RE	ADDRESS VADER COMMENTS TO G-5 FIELD MODIFICATION SUBMITAL
5	04/30/18	JMK	RE	FIELD MODIFICATION
6	03/16/18	KAL	RE	ADDRESS VADER COMMENTS

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

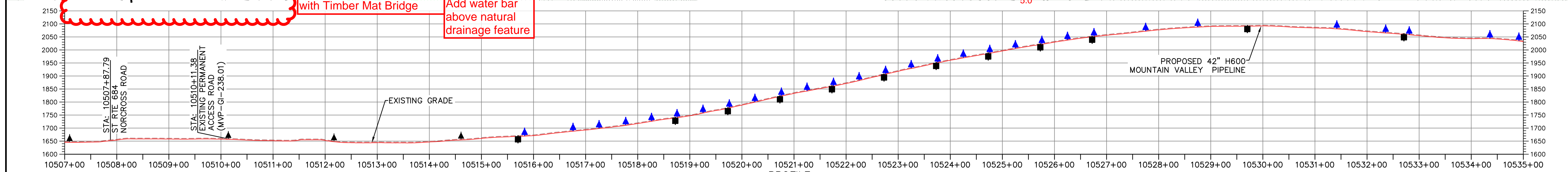
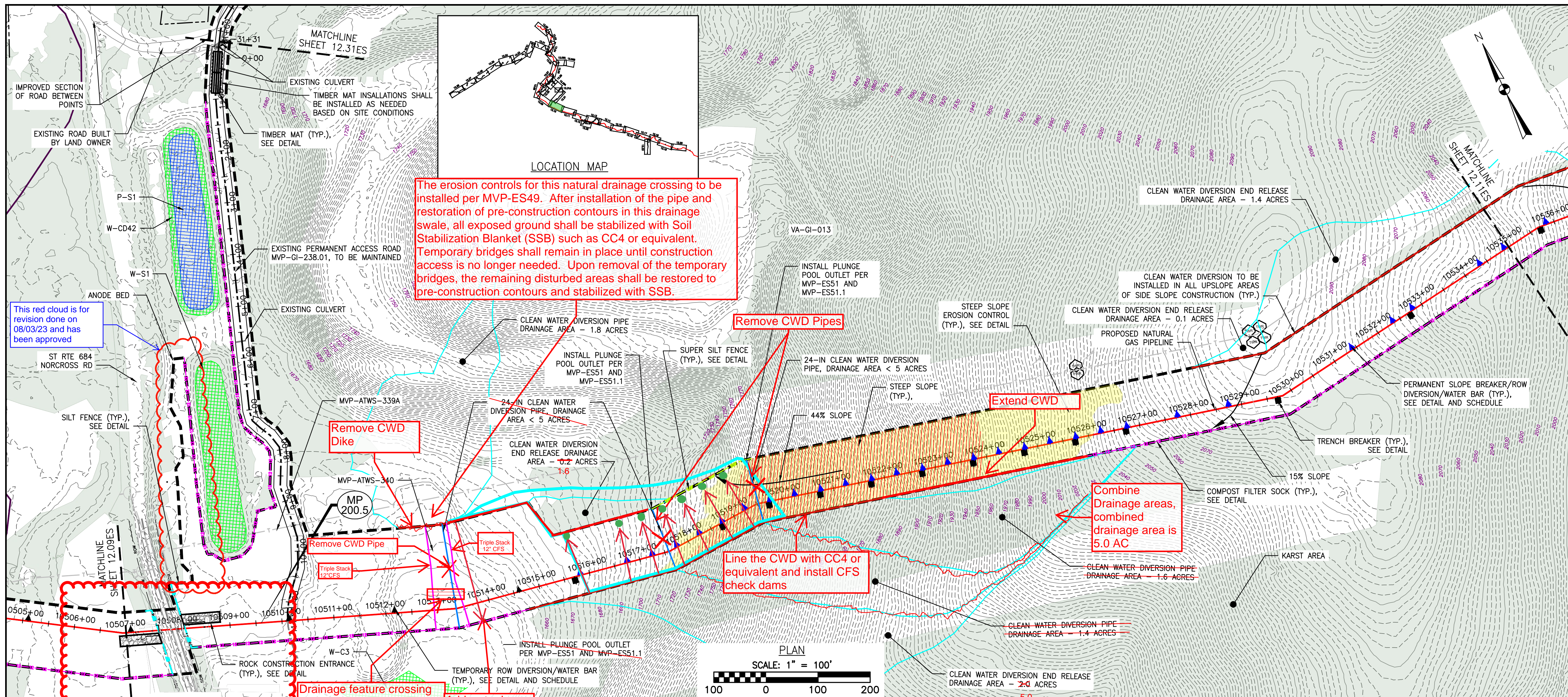
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
 Lic. No. 0402057593
 4/10/2019
 PROFESSIONAL ENGINEER

DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	08/03/2023
SCALE:	AS SHOWN
SHT. NO.	12.09ES OF 12.34ES



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)

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.
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- ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

PROFESSIONAL ENGINEER SEAL: DANIEL C. WITT, Lic. No. 65093, COMMONWEALTH OF VIRGINIA. THIS SEAL ONLY APPLIES TO REVISIONS DATED 1-25-24.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
01/25/24	JUZ	IHH	DCW	REMOVE NORCROSS ROAD BORE PITS
08/05/23	JUZ	IHH	DCW	REVISE CLEAN WATER DIVERSIONS
08/03/23	JUZ	IHH	DCW	REVISE CPGB LIMITS TO AVOID TREES
08/10/19	GAR	RE	DW	ADDED EXISTING ROAD EDGES PER SURVEY
06/07/19	GAR	RE	DW	ADDRESS VADER COMMENTS TO 0-5 FIELD MODIFICATION SUBMITAL
02/09/19	JWK	RE	DW	ADDRESS VADER COMMENTS TO 0-5 FIELD MODIFICATION SUBMITAL

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

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FOSTER PLAZA 7
PITTSBURGH, PA 15220

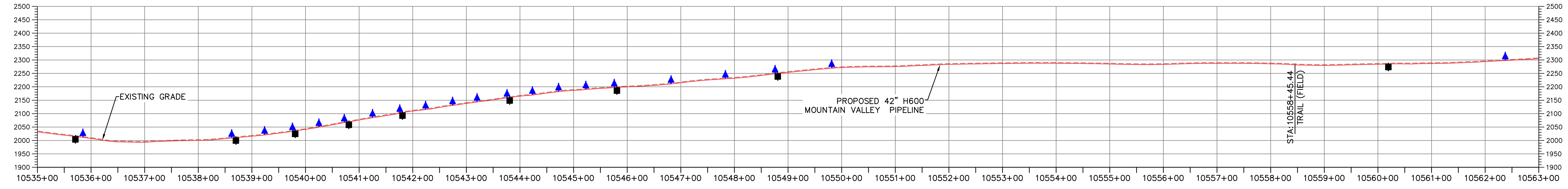
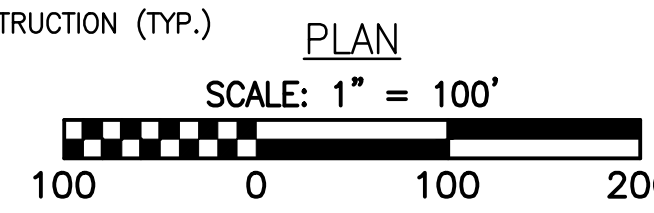
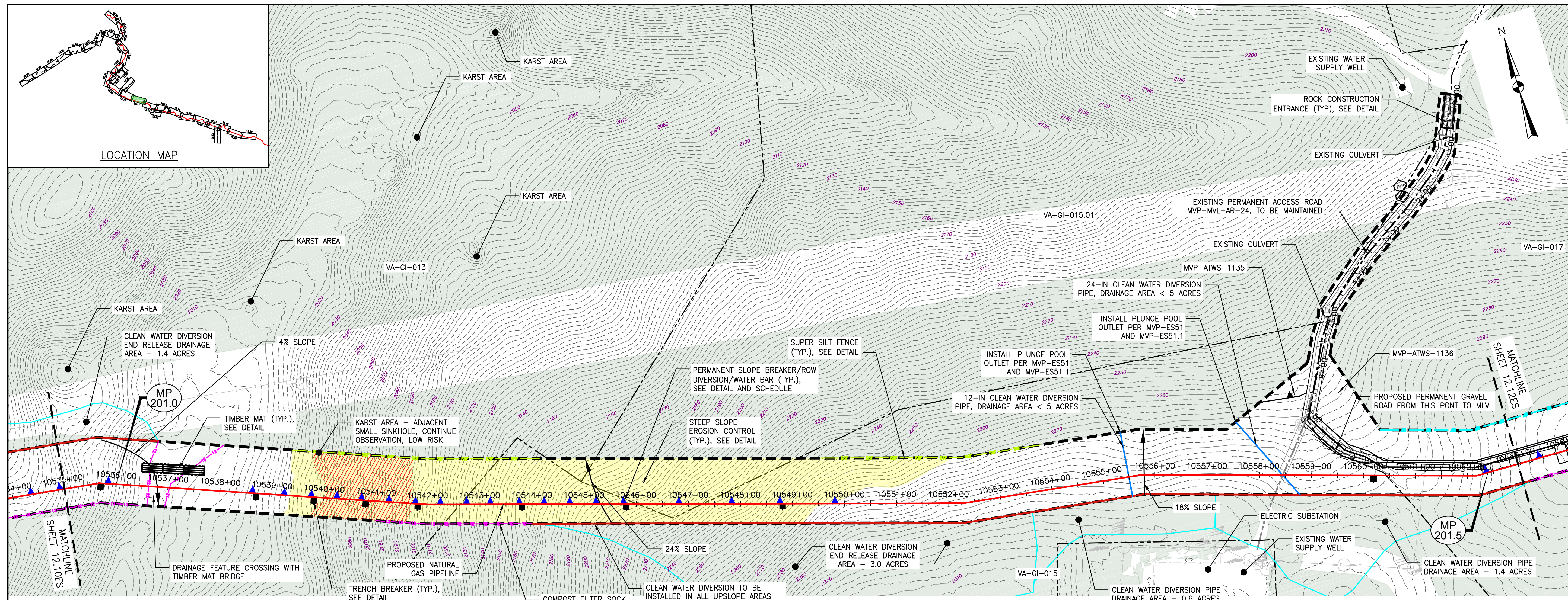
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA

PROFESSIONAL ENGINEER

DAVID J. WALLNER
Lic. No. 0402057593
4/9/2019

DRAWN BY: JUZ
CHECKED BY: IHH
APPROVED BY: DCW
DATE: 01/25/2024
SCALE: AS SHOWN
SHT. NO. 12.10ES OF 12.34ES



PROFILE



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)

- NOTES:**
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
10	08/22/18	JWK		FIELD MODIFICATION
9	03/16/18	KAL		ADDRESS VADEQ COMMENTS
8	02/26/18	KAL		ADDRESS VADEQ COMMENTS
7	02/22/18	KAL		ADDRESS VADEQ COMMENTS
6	01/26/18	KAL		ADDRESS VADEQ COMMENTS
5	01/07/18	KAL		ADDRESS VADEQ COMMENTS

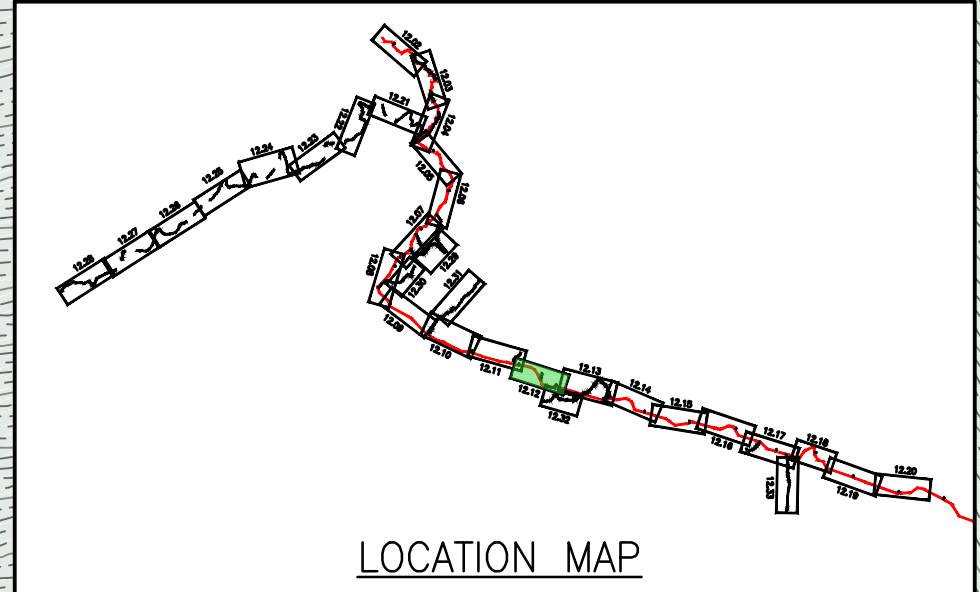
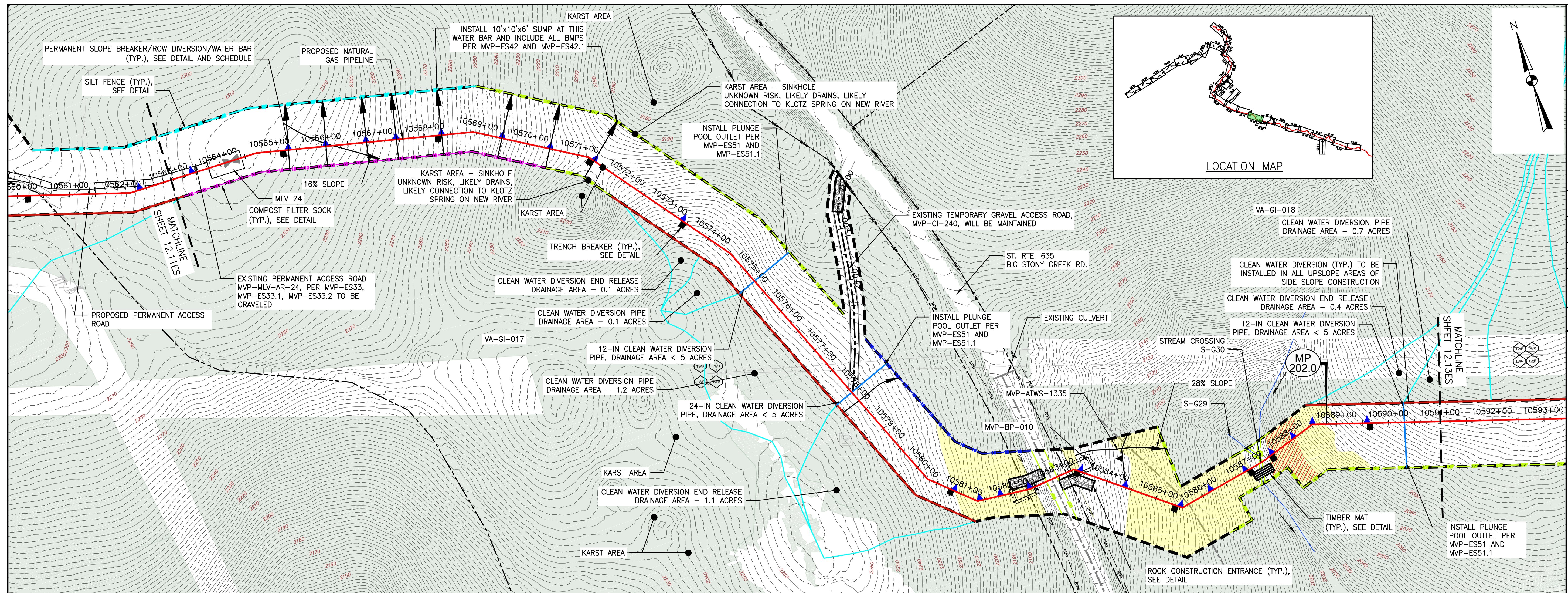
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: JWK
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 08/22/2018
 SCALE: AS SHOWN
 SHEET NO. 12.11ES OF 12.34ES



NO.	DATE	APPD.	CHKD.	DWN.	DESCRIPTION
10	08/22/18	JWK	RE	RE	FIELD MODIFICATION
9	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
8	02/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
7	02/22/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
6	01/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

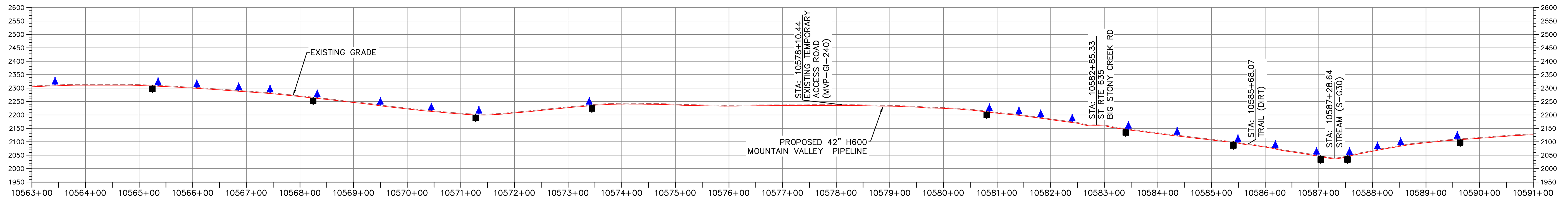
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF PENNSYLVANIA
 DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: JWK
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 08/22/2018
 SCALE: AS SHOWN
 SHEET NO. 12.12ES OF 12.34ES

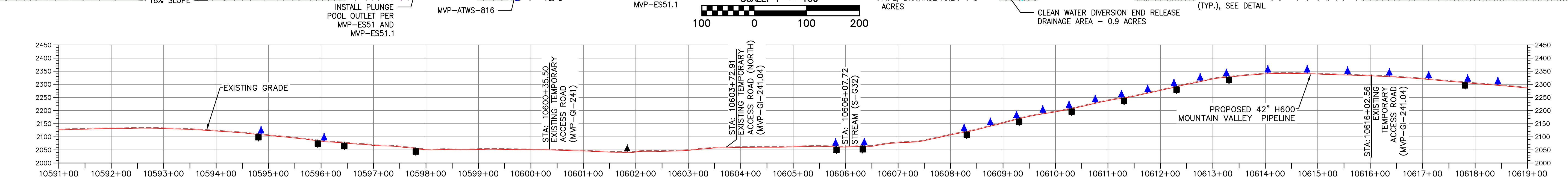
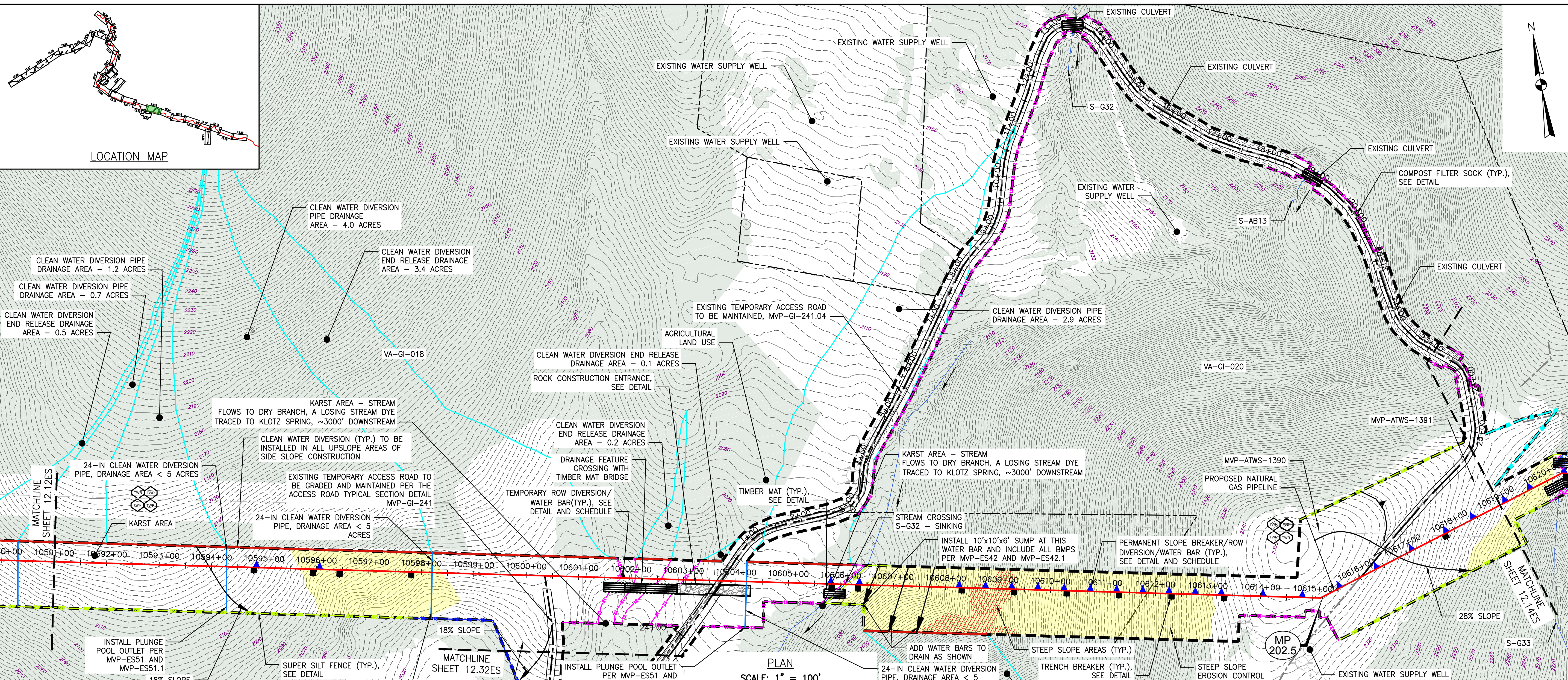


LEGEND

- 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
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- EXISTING STATE LINE
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- 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)

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9	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
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7	02/22/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	01/26/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	DW	ADDRESS VADEQ COMMENTS

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SHEET 12.13ES OF 12.34ES

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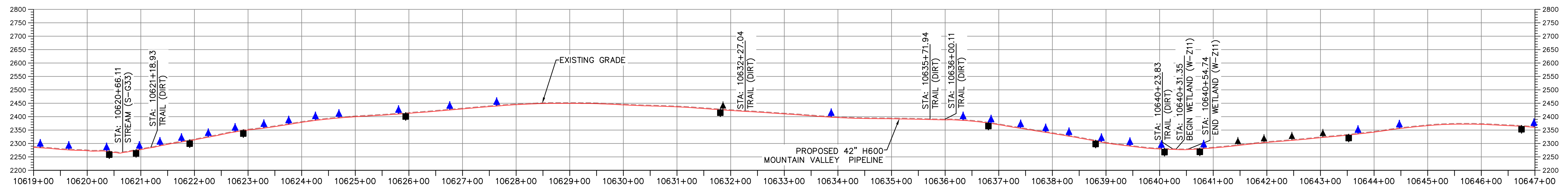
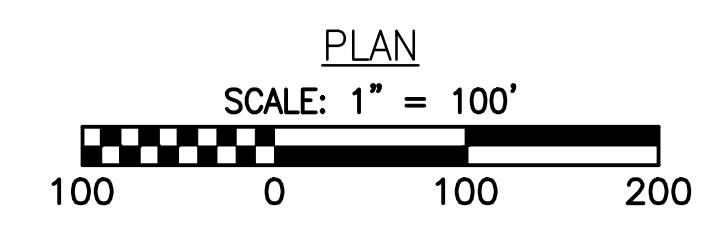
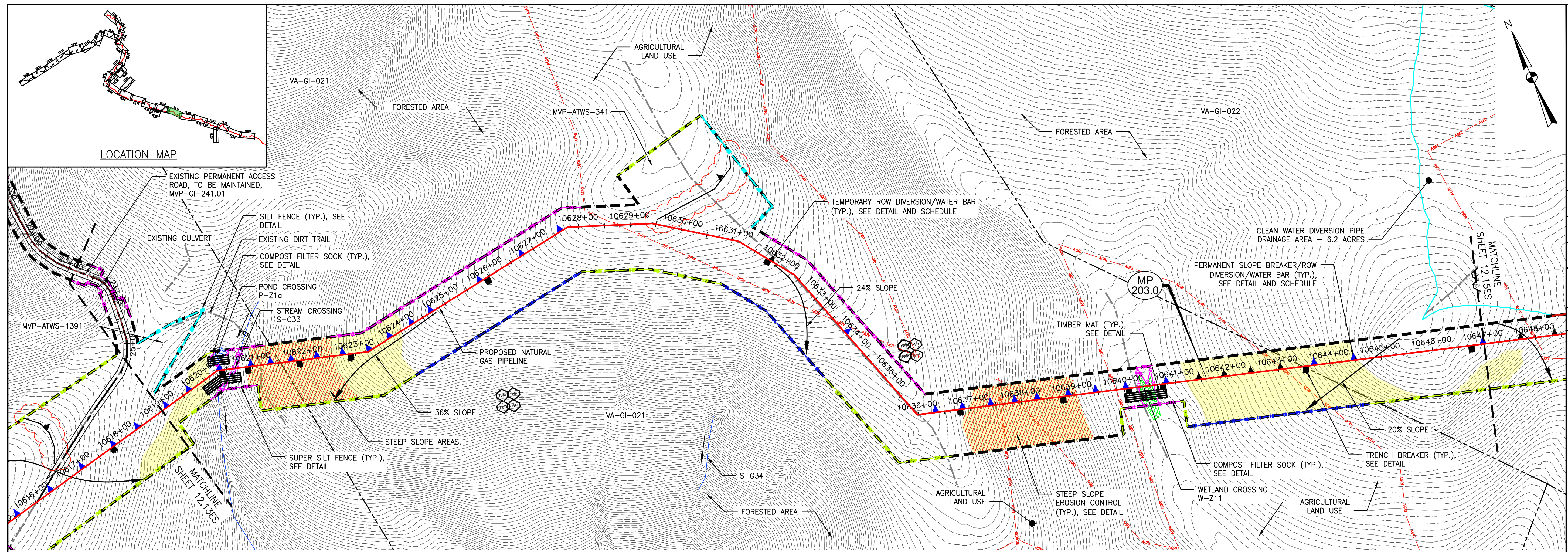
661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

REVISIONS:

NO.	DATE	CHKD.	APPD.	DESCRIPTION
10	08/22/18	JWK	RE	FIELD MODIFICATION
9	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
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5	01/07/18	KAL	DW	ADDRESS VADEQ COMMENTS

DRAWN BY: JWK
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 08/22/2018
 SCALE: AS SHOWN
 SHEET NO. 12.13ES OF 12.34ES



PROFILE



LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- STREAM
- PROPOSED PIPELINE
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- ACID FORMING MATERIAL
- AGRICULTURAL LAND USE BOUNDARY
- PROPOSED SILT FENCE (SEE NOTE 5)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- DRAINAGE AREA BOUNDARY
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	02/26/18	KAL	RE	ADDRESS VADEQ COMMENTS
7	02/22/18	KAL	RE	ADDRESS VADEQ COMMENTS
6	01/26/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	RE	ADDRESS VADEQ COMMENTS
4	11/28/17	KAL	RE	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	RE	ADDRESS VADEQ COMMENTS

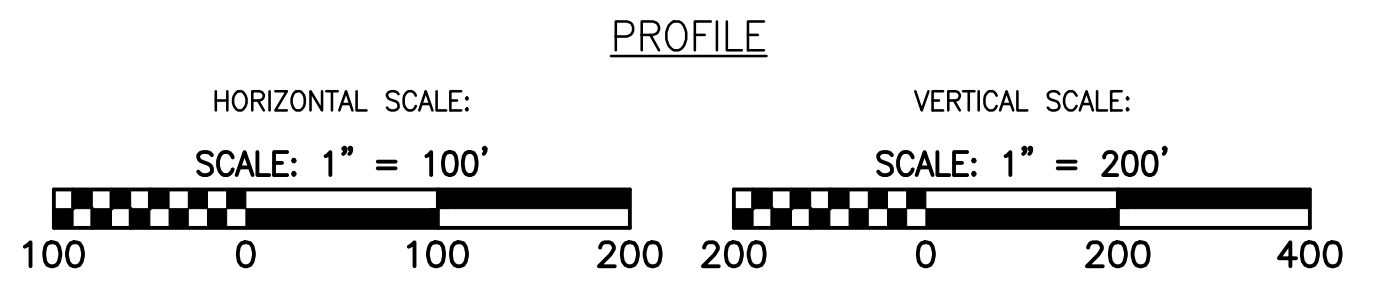
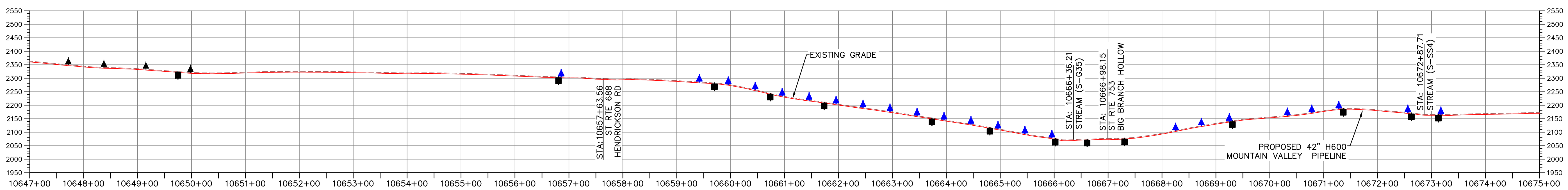
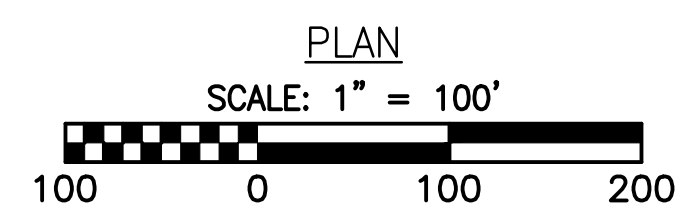
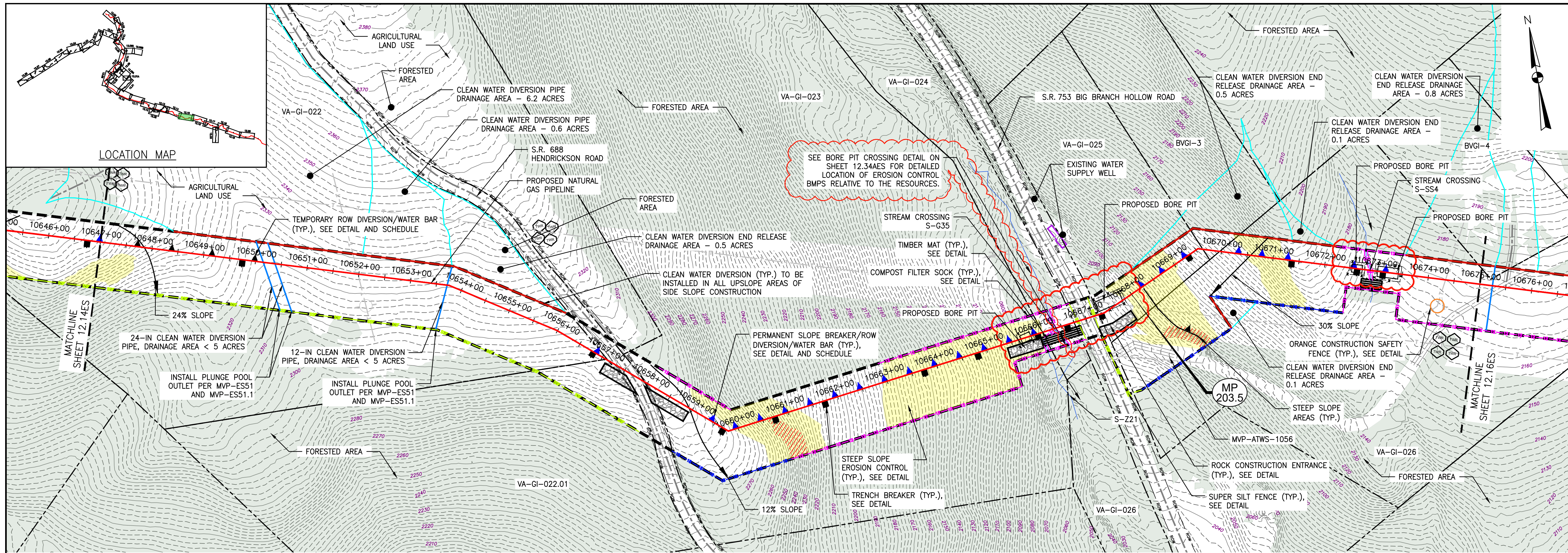
Mountain Valley Pipeline
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MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

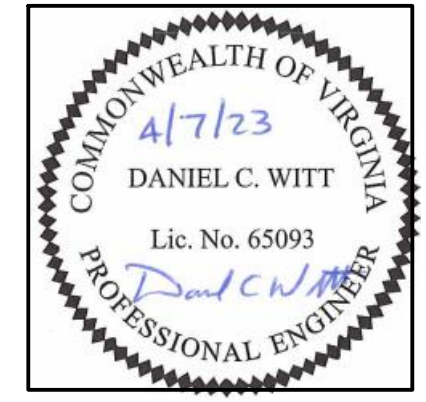
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 02/26/2018
 SCALE: AS SHOWN
 SHEET NO. 12.14ES OF 12.34ES



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	--- ORCSF --- 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)
--- AFM --- ACID FORMING MATERIAL	--- CLEAN WATER DIVERSION PIPE	
--- EXISTING FOREST	--- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)	



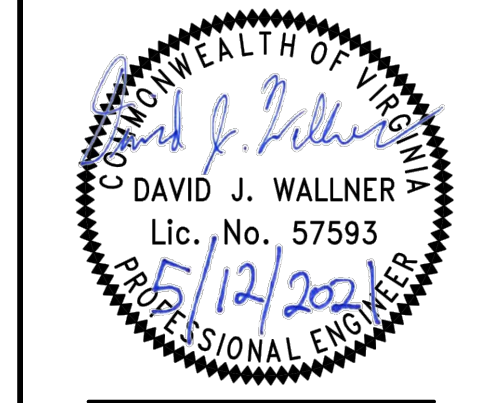
- NOTES:**
- TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
 - FLEXTERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
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 - WHERE CONSTRUCTION CONDITIONS PRECLUDE THE 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 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.
 - 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	CHKD.	APPD.	DESCRIPTION
1	04/07/23	JUZ	TD	ADDRESS PER COMMENTS ON CROSSING CHANGE METHOD
2	05/12/21	GAR	RE	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
3	06/22/18	JMK	RE	FIELD MODIFICATION
4	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	02/26/18	KAL	RE	ADDRESS VADEQ COMMENTS
6	02/22/18	KAL	RE	ADDRESS VADEQ COMMENTS

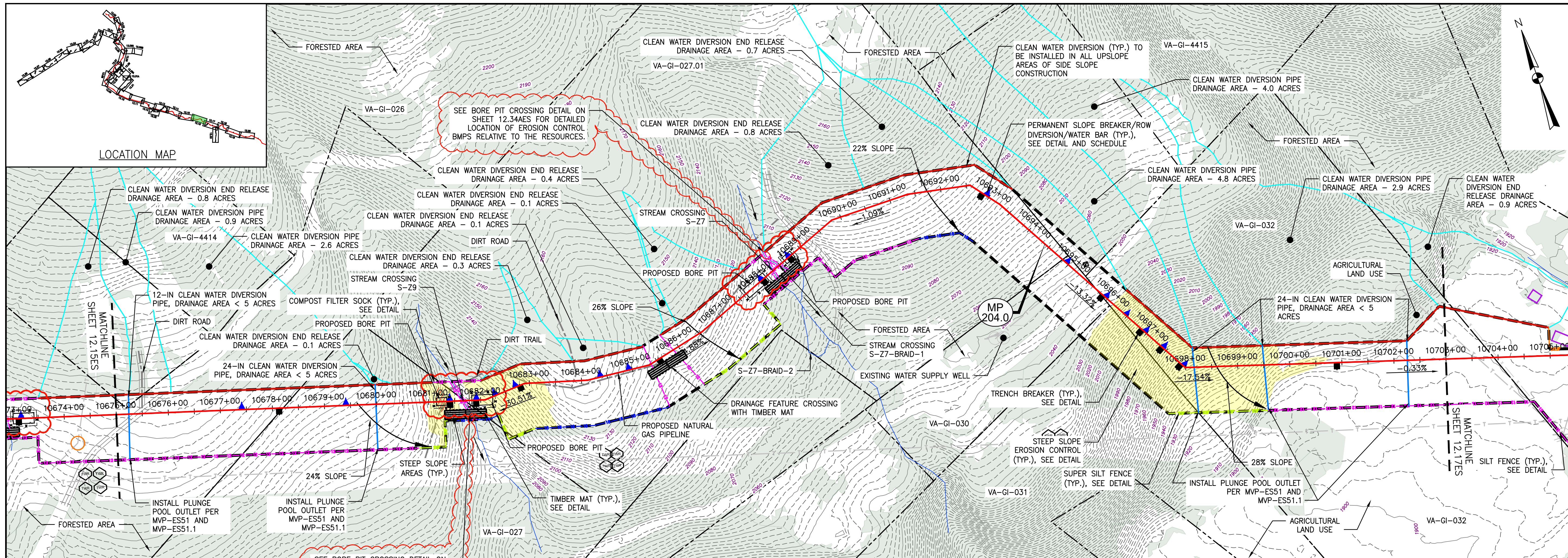
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15311

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 PITTSBURGH, PA 15220

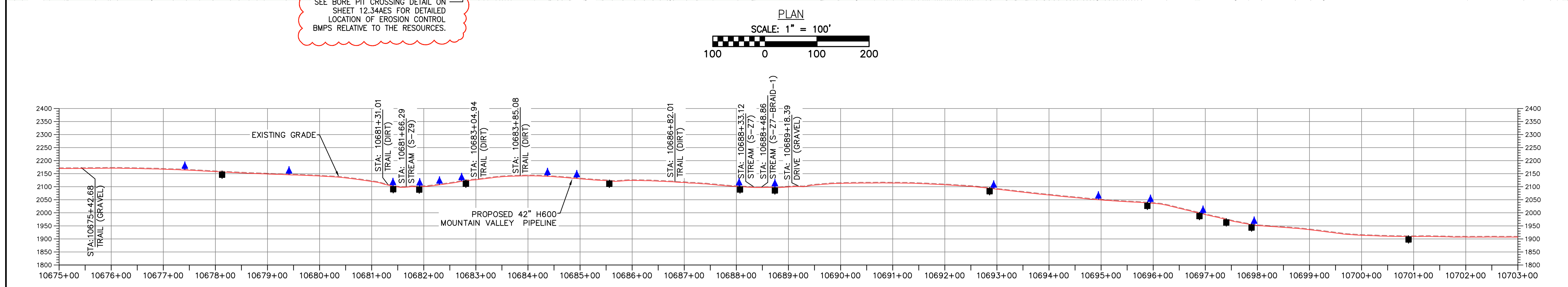
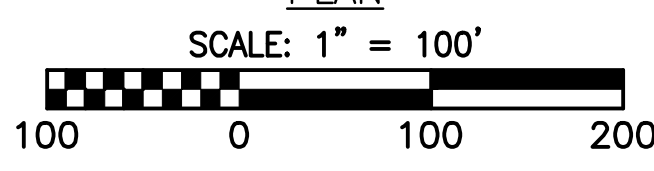
EROSION AND SEDIMENT CONTROL PLANS



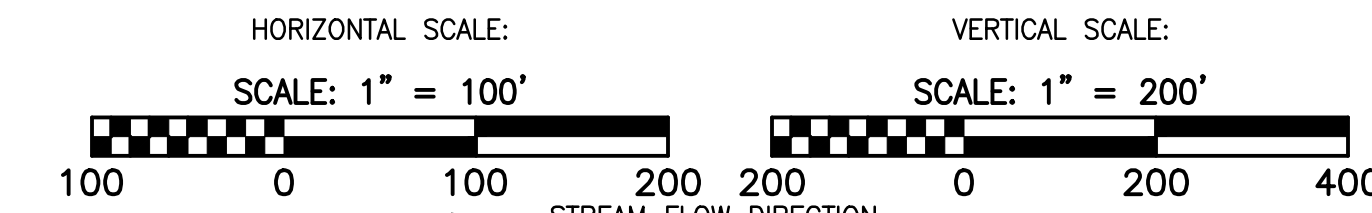
DRAWN BY:	JUZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO. 12.15ES OF 12.34ES	REVISION



PLAN



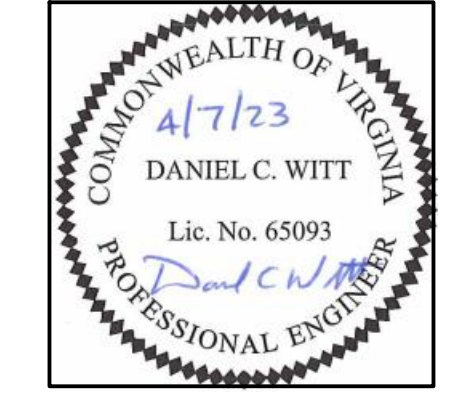
PROFILE



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 04-07-23

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
2. FLEXTERA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
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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 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.
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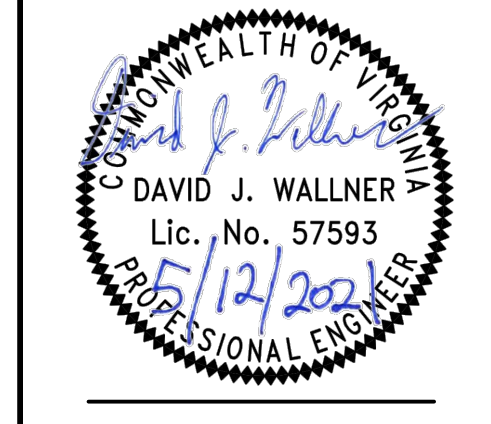
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15311

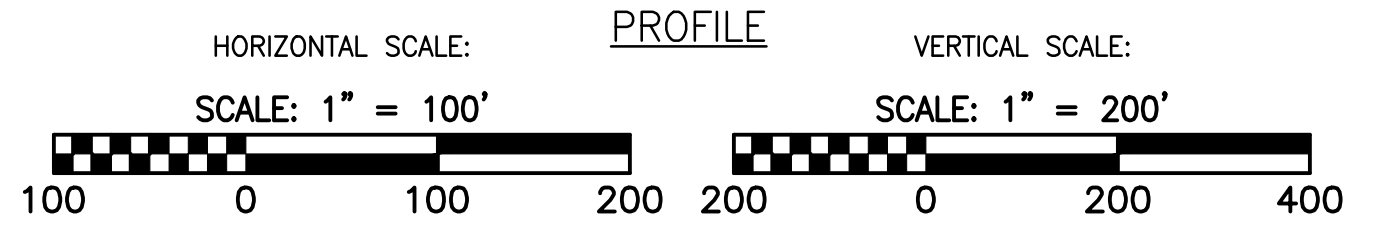
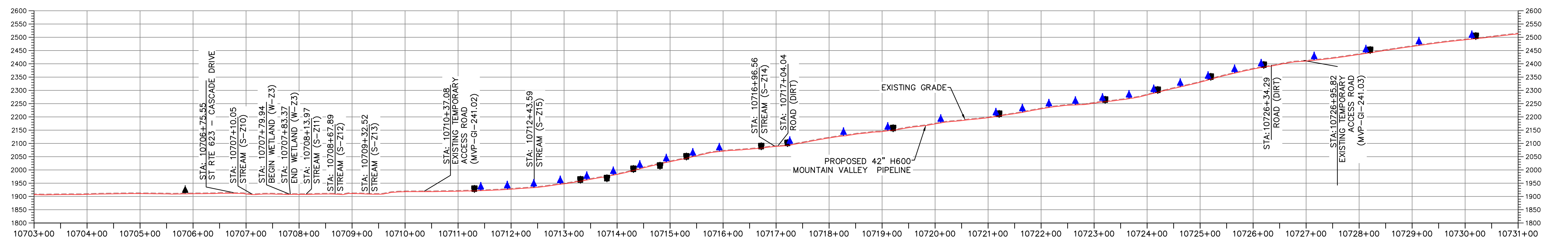
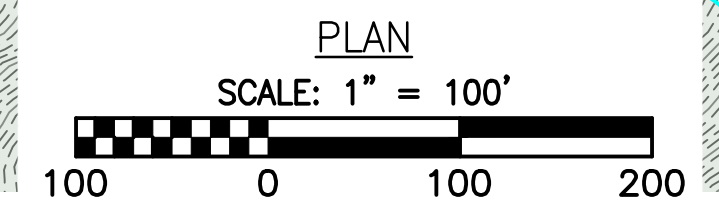
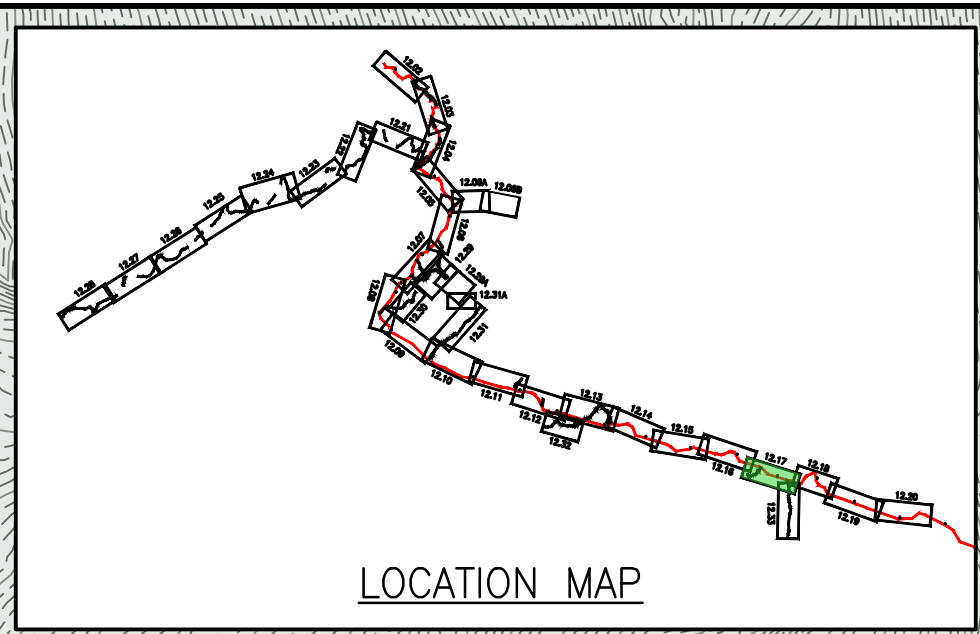
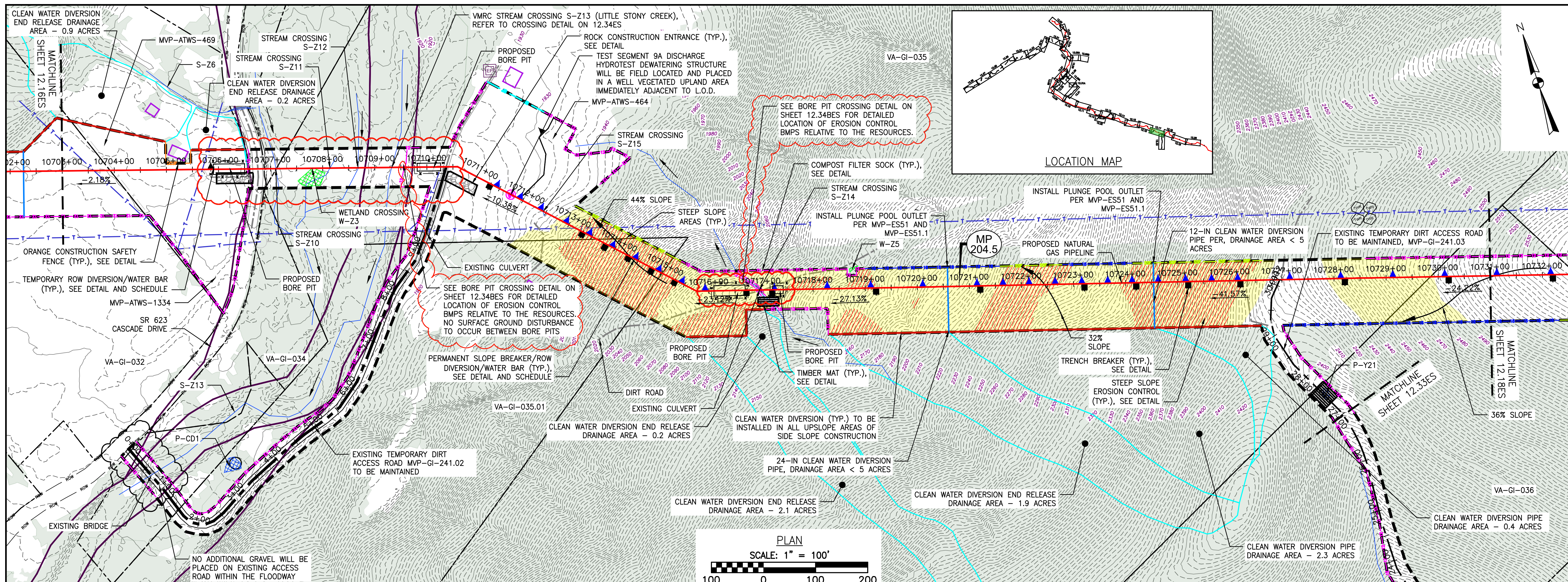
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EROSION AND SEDIMENT CONTROL PLANS

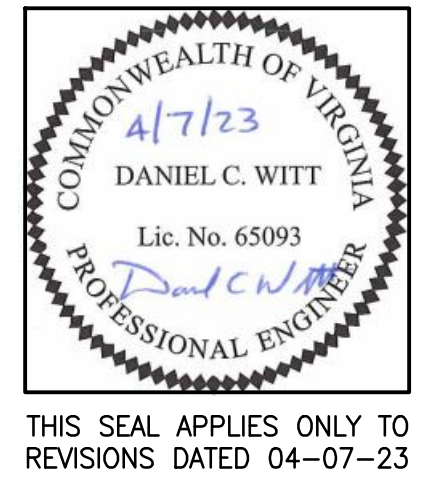


DRAWN BY:	JUZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO. 12.16ES OF 12.34ES	



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)
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--- WETLAND	--- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)	--- TEMPORARY SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)
--- AFM --- ACID FORMING MATERIAL	--- CLEAN WATER DIVERSION PIPE	
--- EXISTING FOREST	--- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)	



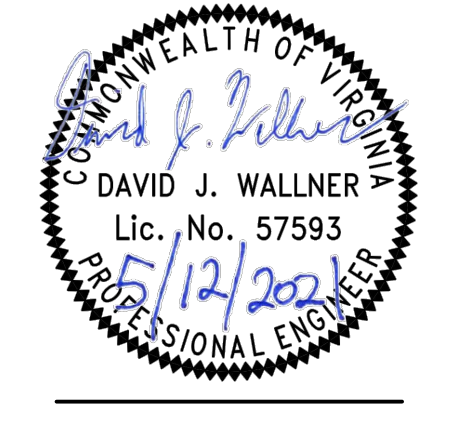
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
10	04/20/18	JWK	RE	FIELD MODIFICATION
		JWK	RE	CHANGES TO PROPOSED BORE PIT LOCATIONS
		JWK	RE	VMRC CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
		JWK	RE	REMOVED ACCESS ROAD TIMBER MAT CROSSINGS WITHIN FLOOD ZONE
		JWK	RE	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
		JWK	RE	ADDRESS DEO COMMENTS ON CROSSING CHANGE METHOD

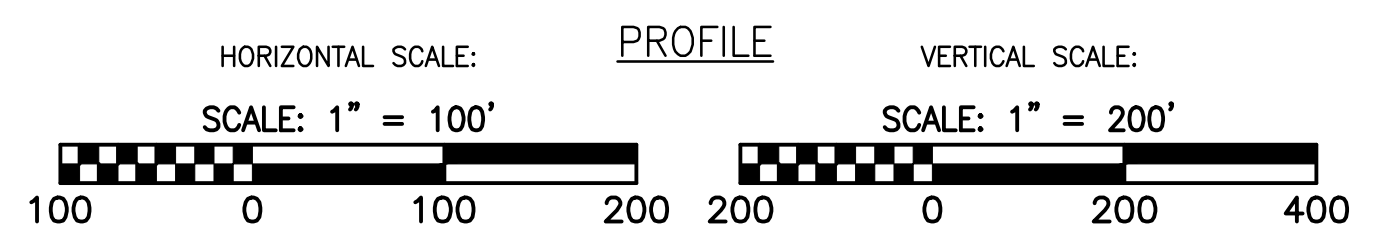
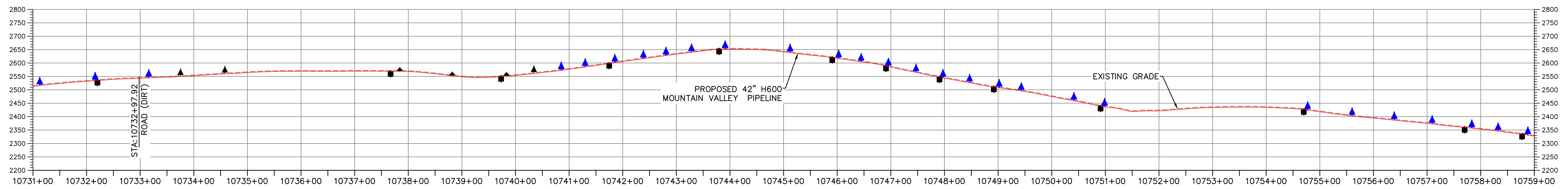
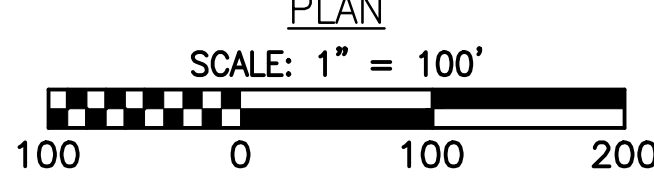
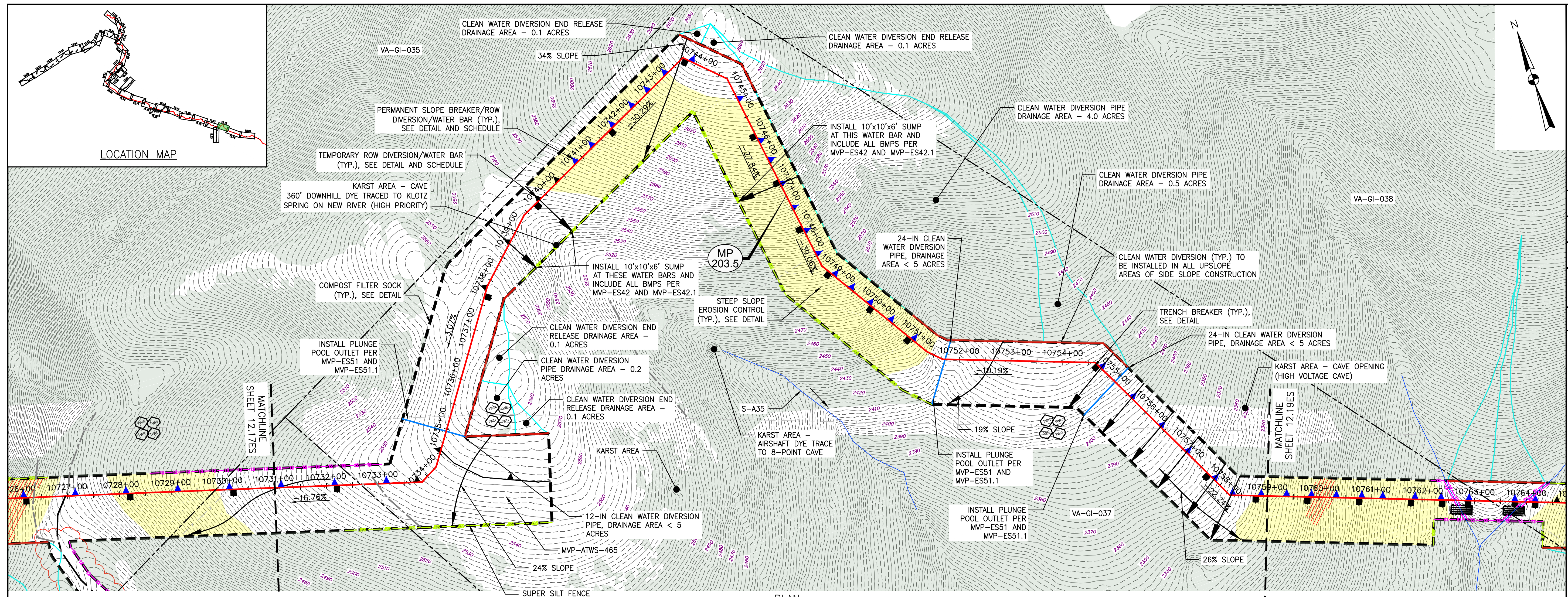
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS



DRAWN BY:	JUZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/23
SCALE:	AS SHOWN
SHT. NO. 12.17ES OF 12.34ES	

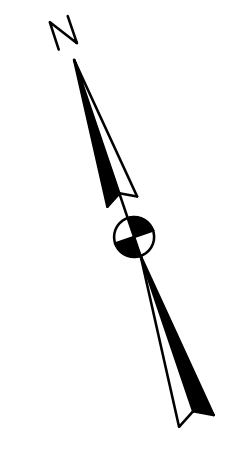


LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- STREAM
- PROPOSED PIPELINE
- 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 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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- 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 3.1.1)
- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)

NOTES:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
10	08/22/18	JWK		FIELD MODIFICATION
9	03/16/18	KAL		ADDRESS VADEQ COMMENTS
8	02/26/18	KAL		ADDRESS VADEQ COMMENTS
7	02/22/18	KAL		ADDRESS VADEQ COMMENTS
6	01/26/18	KAL		ADDRESS VADEQ COMMENTS
5	01/07/18	KAL		ADDRESS VADEQ COMMENTS

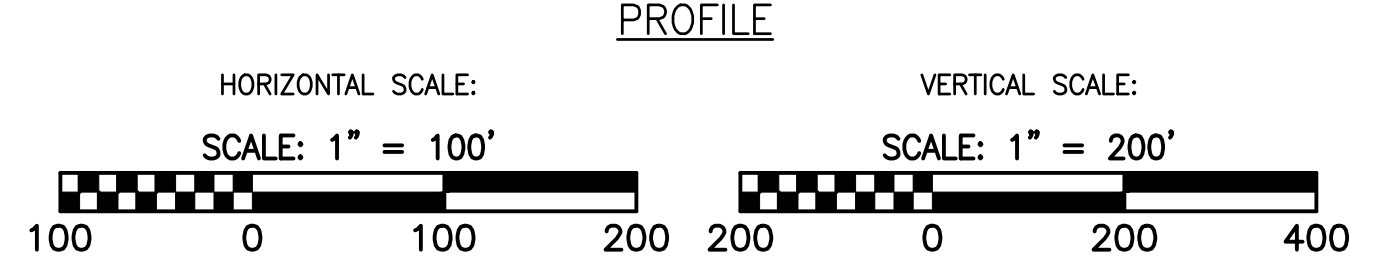
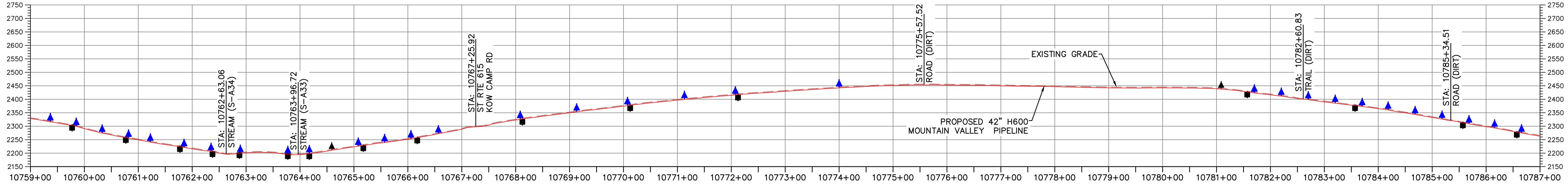
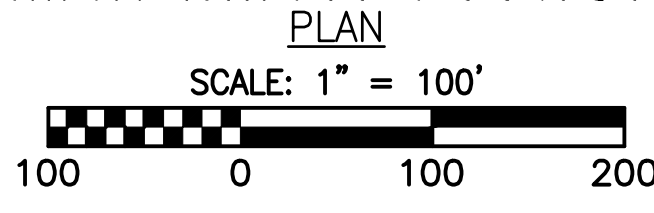
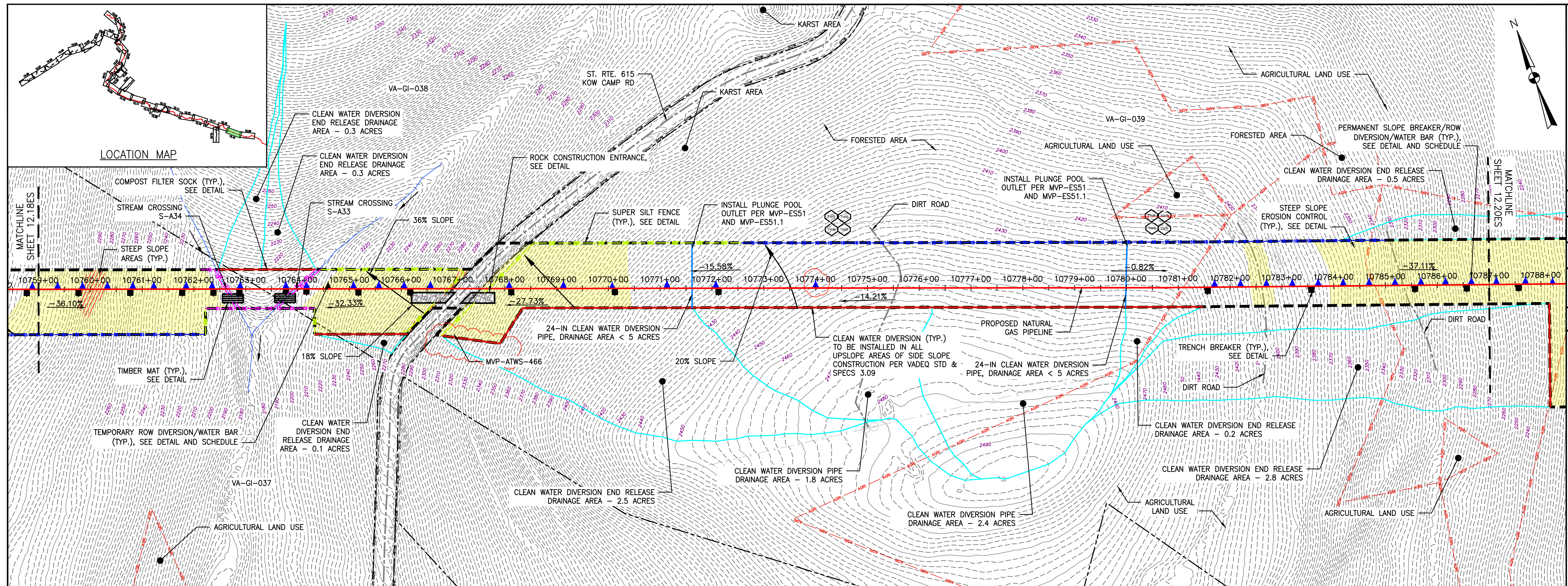
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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EROSION AND SEDIMENT CONTROL PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: JWK
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 08/22/2018
 SCALE: AS SHOWN
 SHEET NO. 12.18ES OF 12.34ES



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)
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--- WETLAND	--- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
--- ACID FORMING MATERIAL	--- CLEAN WATER DIVERSION PIPE
--- AGRICULTURAL LAND USE BOUNDARY	--- 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)
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7	02/22/18	KAL	RE	ADDRESS VADEQ COMMENTS
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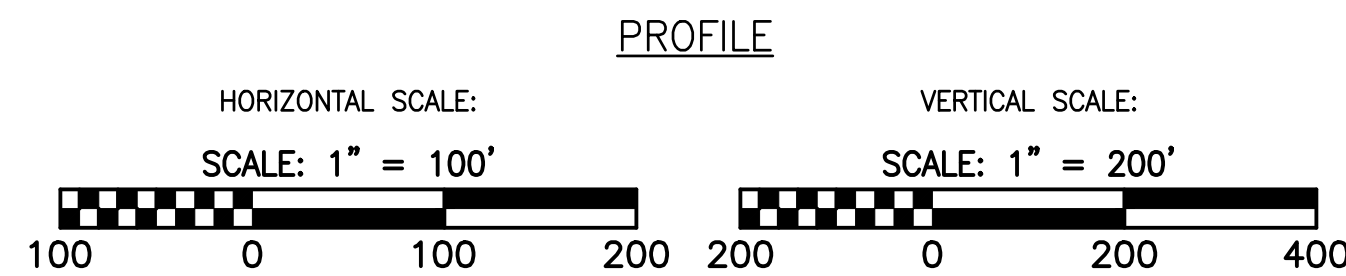
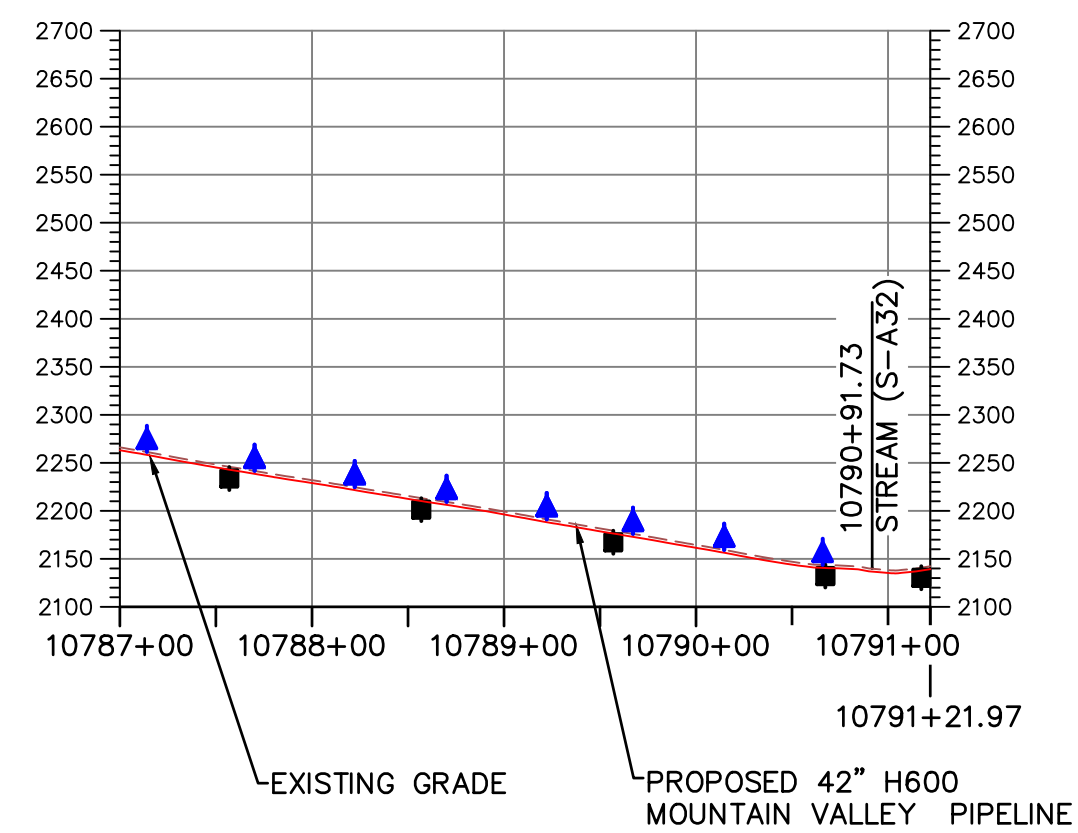
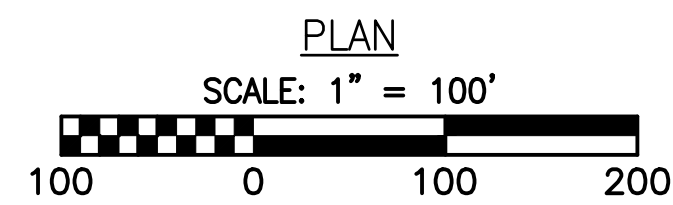
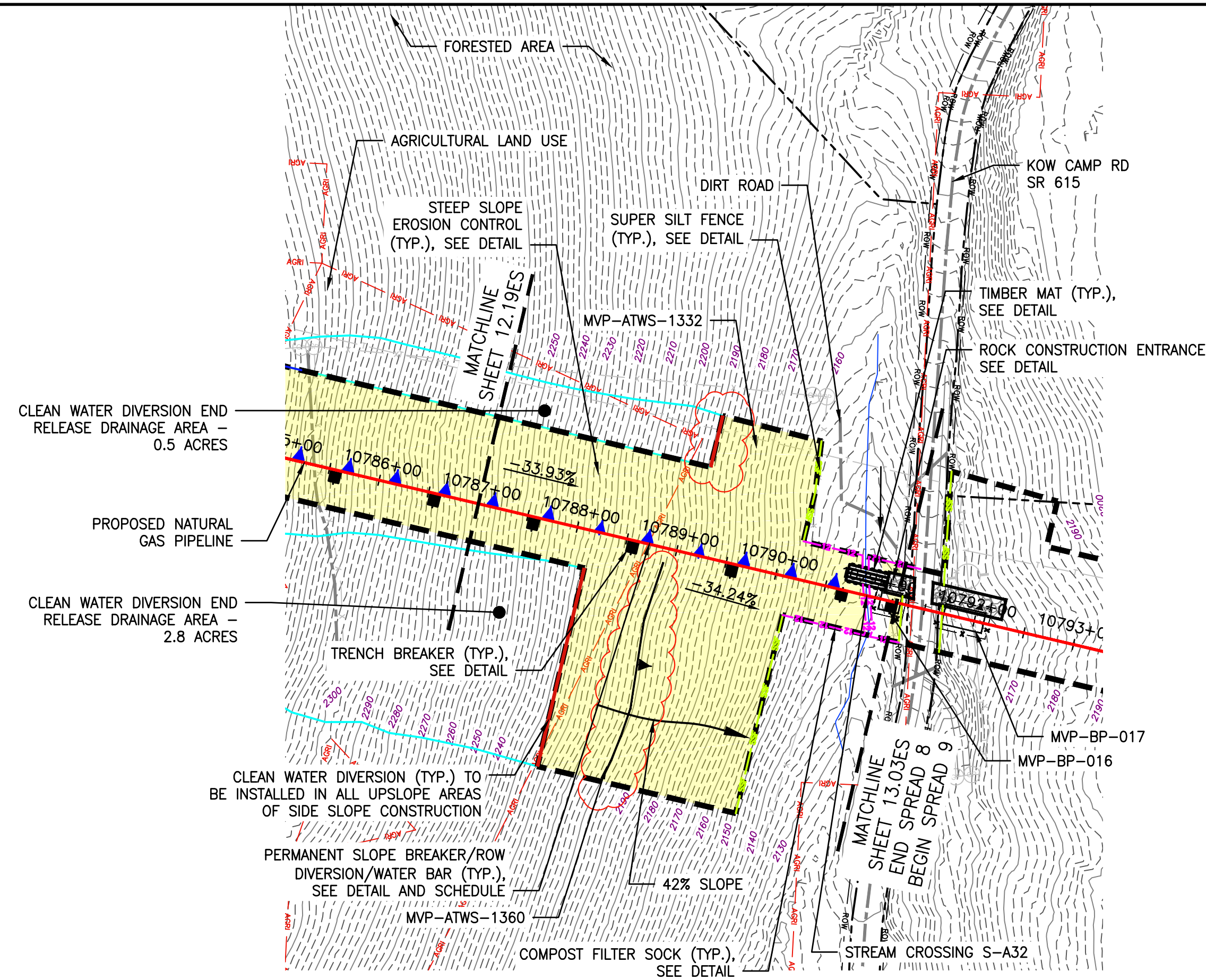
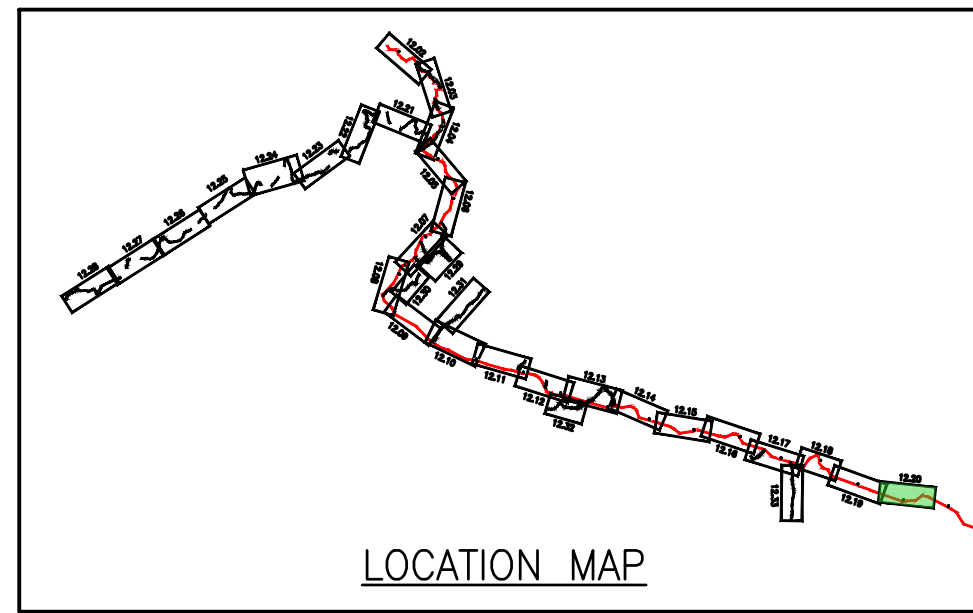
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15311

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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF PENNSYLVANIA
 DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 02/26/2018
 SCALE: AS SHOWN
 SHEET NO. 12.19ES OF 12.34ES

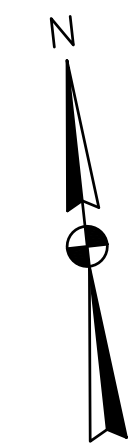


LEGEND

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- STREAM
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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

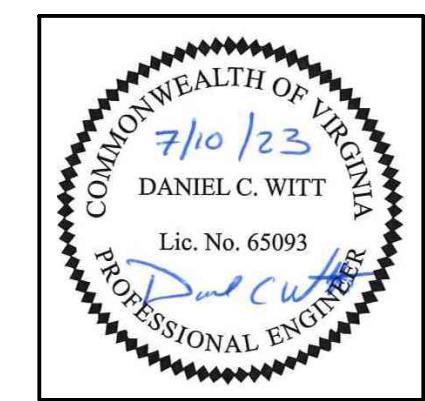
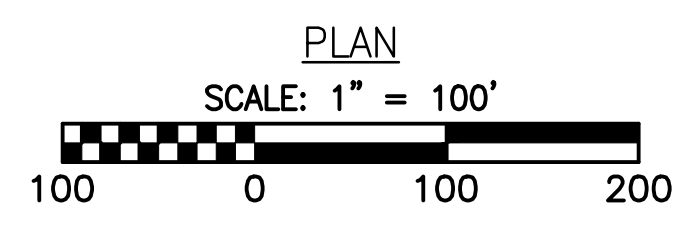
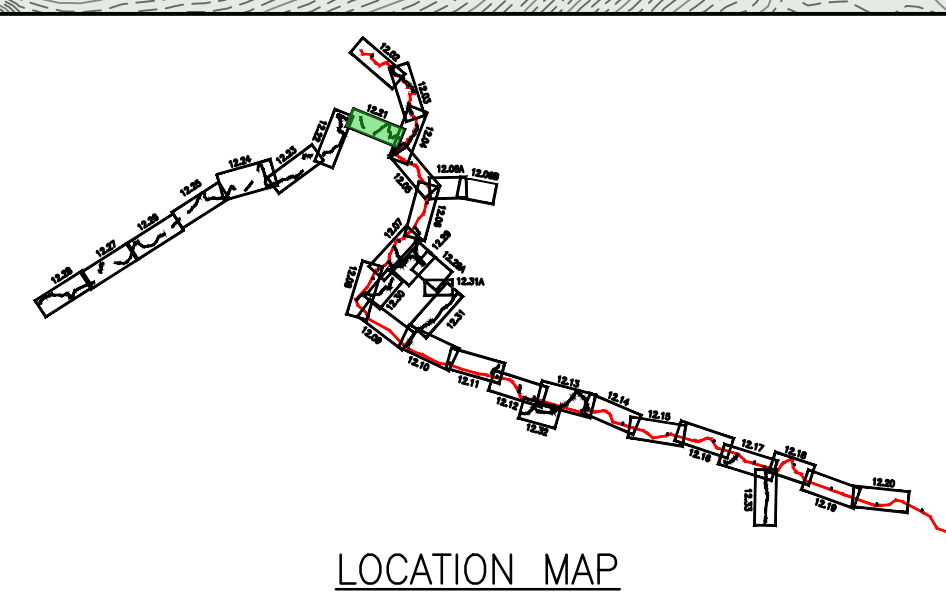
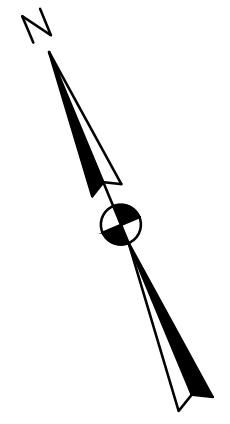
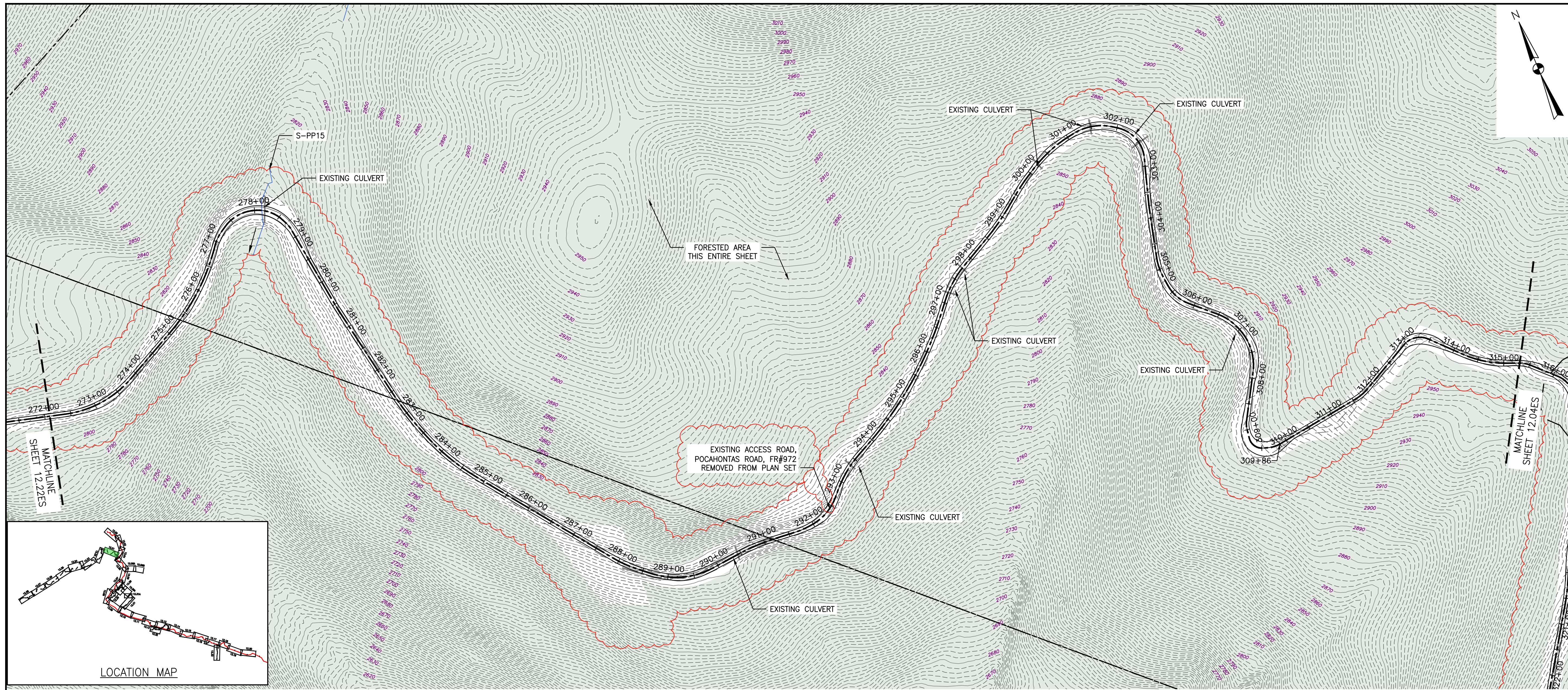
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY: KAL
CHECKED BY: RE
APPROVED BY: DW
DATE: 02/26/2018
SCALE: AS SHOWN
SHT. NO. 12.20ES OF 12.34ES



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

LEGEND

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> --- 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 | <ul style="list-style-type: none"> --- PROPOSED ACCESS ROAD CENTERLINE --- PROPOSED PIPELINE --- PROPOSED 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) --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) --- 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) | <ul style="list-style-type: none"> --- 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) |
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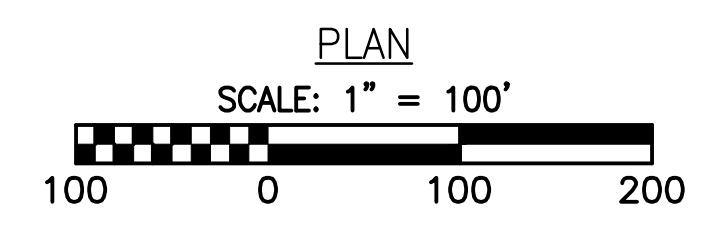
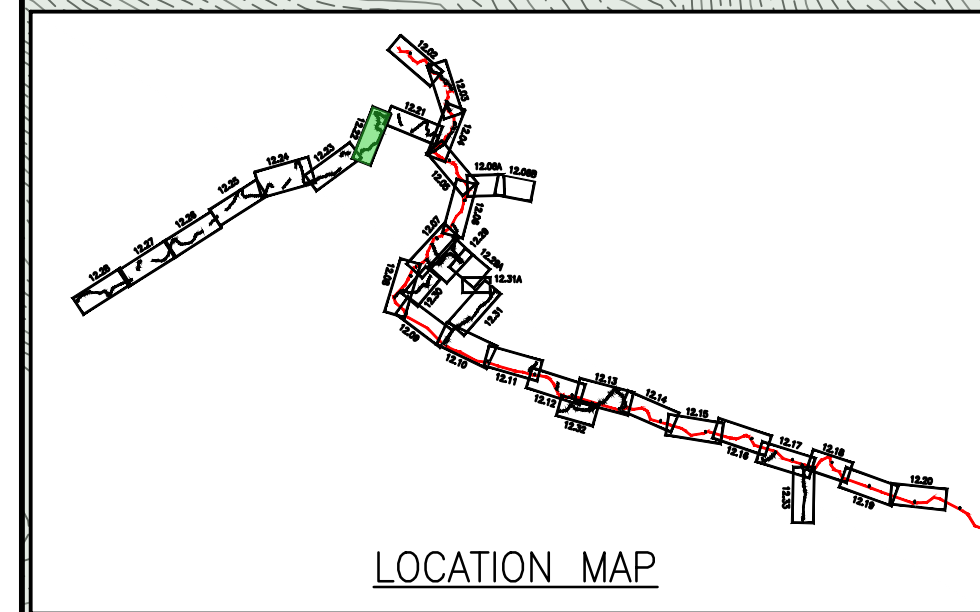
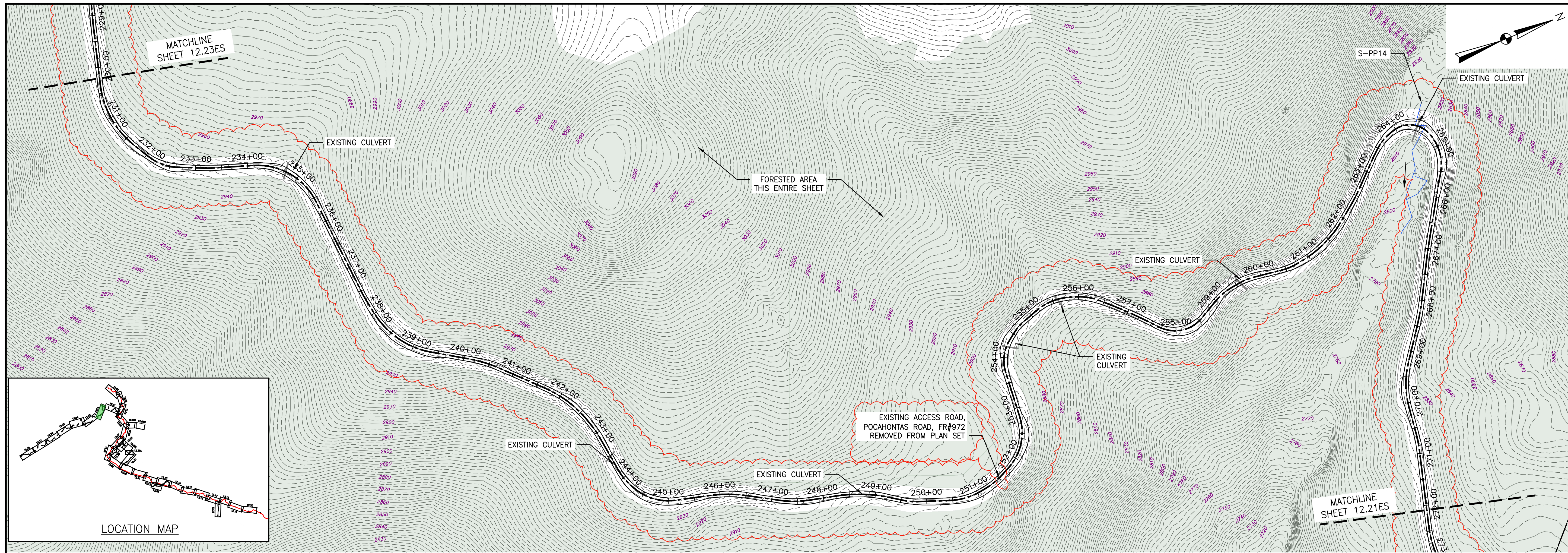
NO.	DATE	DWN:	CHKD:	APPD:	DESCRIPTION
1	07/07/23	JUZ	IHH	DCW	RELINNE TO REMOVE POCAHONTAS ROAD
2	02/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15311

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 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

	DRAWN BY: JUZ CHECKED BY: IHK APPROVED BY: DCW DATE: 07/07/2023 SCALE: AS SHOWN SHT. NO. 12.21ES OF 12.34ES
--	--



LEGEND	
--- PROPOSED LIMIT OF DISTURBANCE	--- PROPOSED ACCESS ROAD CENTERLINE
--- STREAM	--- PROPOSED PIPELINE
--- USDA FOREST SERVICE (NATIONAL FOREST) LANDS	--- PROPOSED SILT FENCE (SEE NOTE 5)
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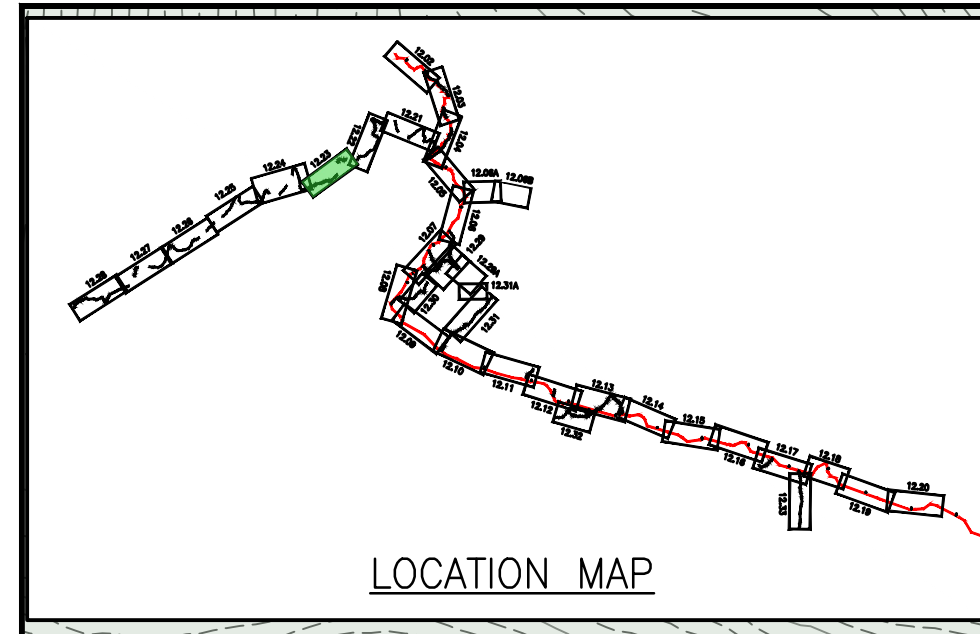
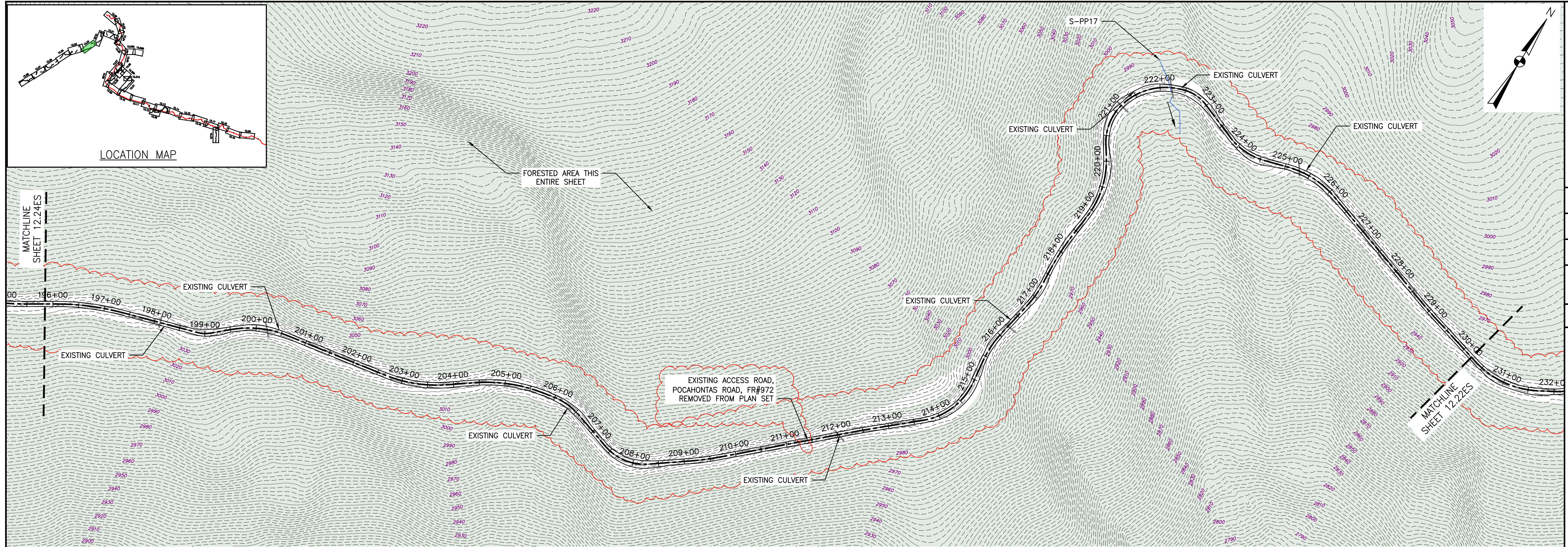
NO.	DATE	BY:	CHKD.:	APPD.:	DESCRIPTION
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2	02/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
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 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

DRAWN BY:	JUZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/07/2023
SCALE:	AS SHOWN
SHT. NO.	12.22ES OF 12.34ES

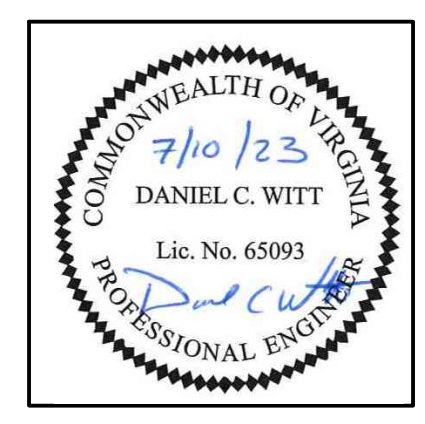
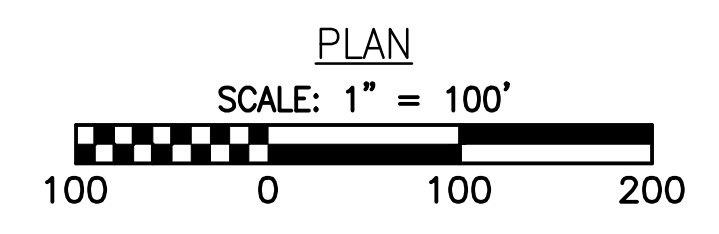


MATCHLINE
SHEET 12.24ES

MATCHLINE
SHEET 12.22ES

FORESTED AREA THIS
ENTIRE SHEET

EXISTING ACCESS ROAD,
POCAHONTAS ROAD, FR#972
REMOVED FROM PLAN SET



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

LEGEND

- | | | |
|--|--|--|
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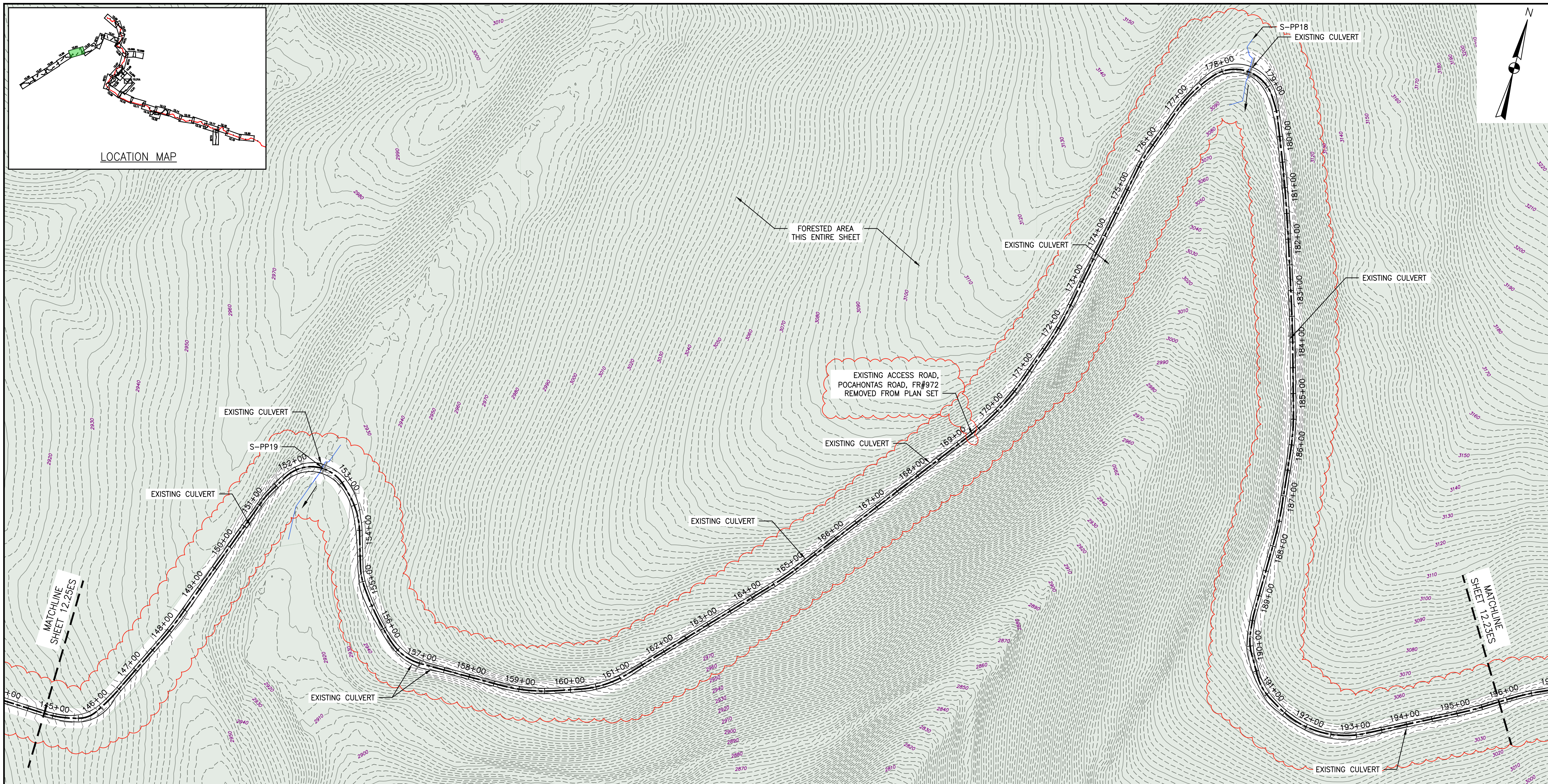
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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
 7/10/23
 DANIEL C. WITT
 Lic. No. 65093
 PROFESSIONAL ENGINEER

APPROVED BY: DCW
 DATE: 07/07/2023
 SCALE: AS SHOWN
 SHT. NO. 12.23ES OF 12.34ES



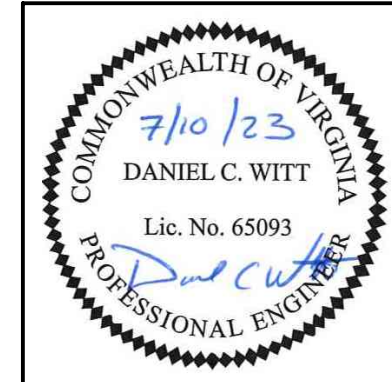
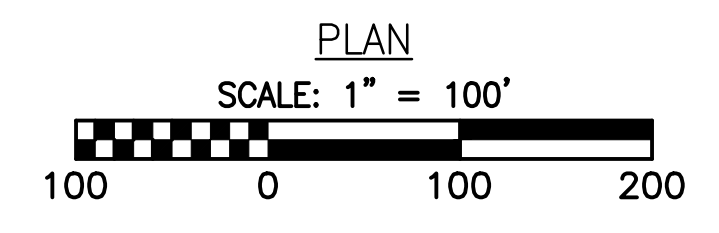
NO.	DATE	APPD.	CHKD.	DWN.	DESCRIPTION
1	07/07/23	JUZ	IHH	DCW	REDLINE TO REMOVE POCAHONTAS ROAD
2	02/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	01/23/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
6	11/28/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS

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
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 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

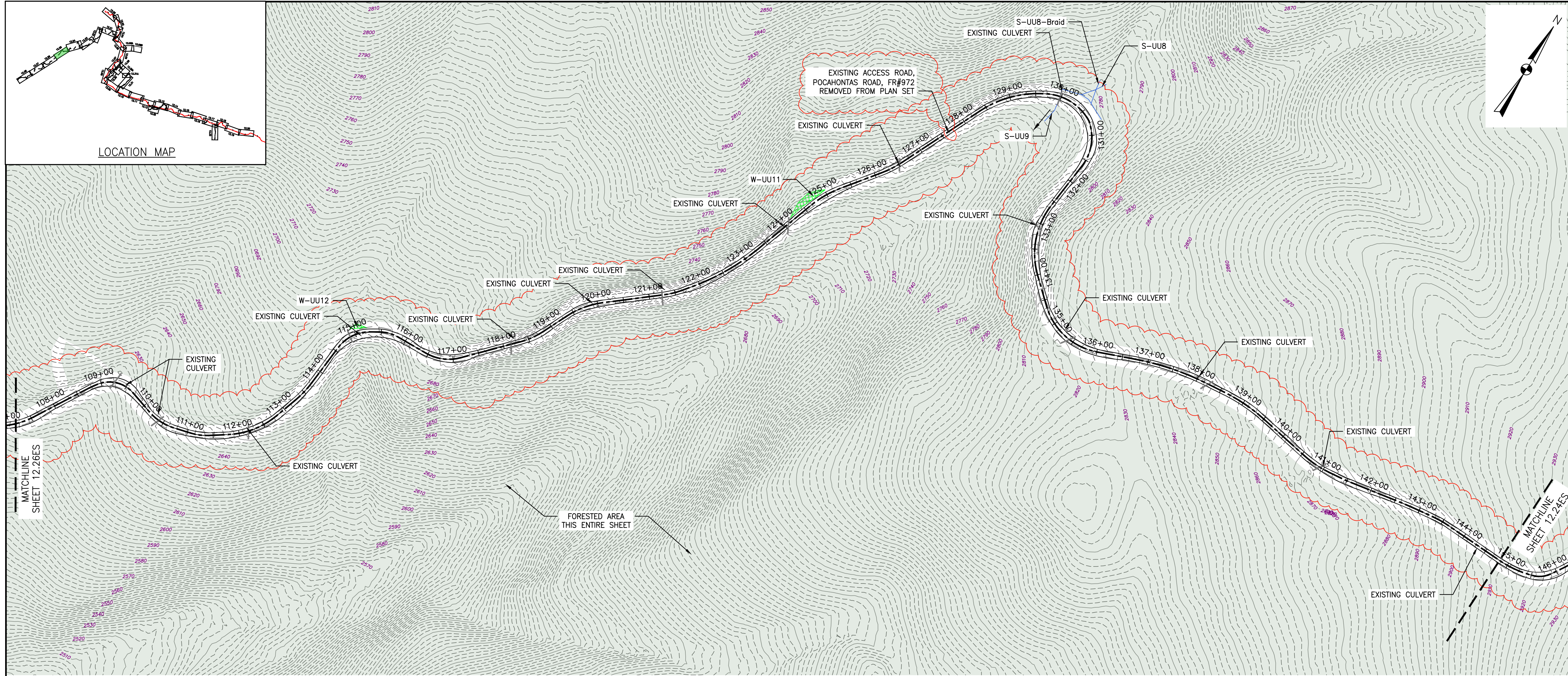
DRAWN BY: JUZ
 CHECKED BY: IHH
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 DATE: 07/07/2023
 SCALE: AS SHOWN
 SHT. NO. 12.24ES OF 12.34ES



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

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		OCSF 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		PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)		PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)
	ACID FORMING MATERIAL		GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)		
	EXISTING FOREST		CLEAN WATER DIVERSION PIPE		
			CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)		

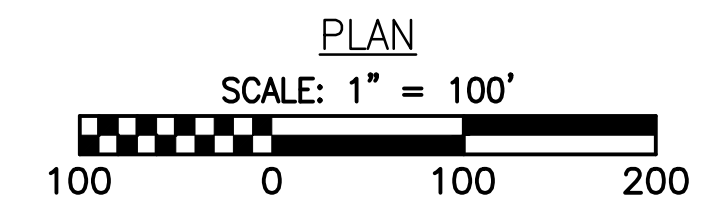
- NOTES:**
- TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
 - FLEXTERA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
 - CONTRACTOR IS RESPONSIBLE TO IDENTIFY ALL UTILITIES. THE UTILITY LINES SHOWN ON THE PLAN ARE FOR 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 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.
 - ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.



LOCATION MAP

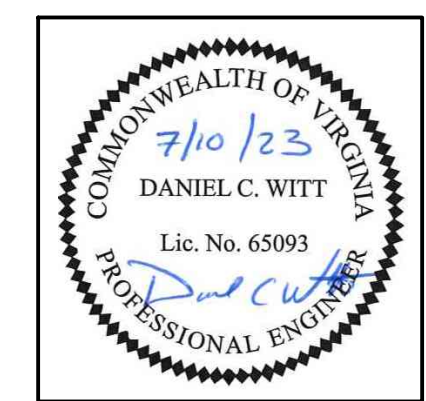
MATCHLINE
SHEET 12.26FS

MATCHLINE
SHEET 12.24FS



PLAN

SCALE: 1" = 100'



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

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)
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- 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
- 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)

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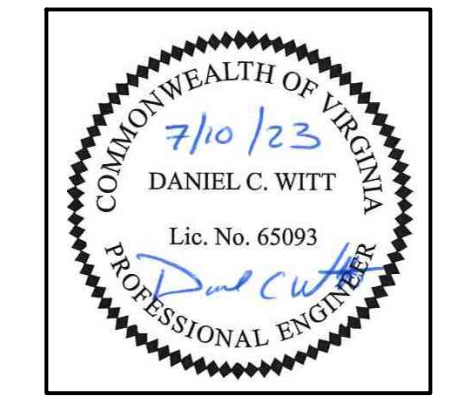
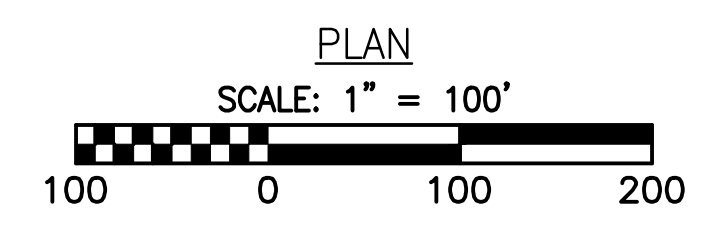
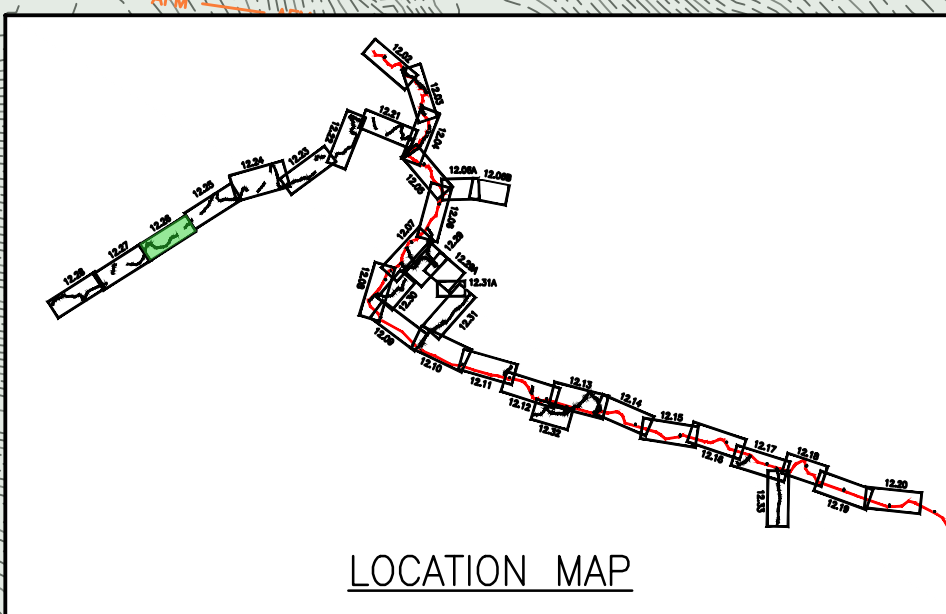
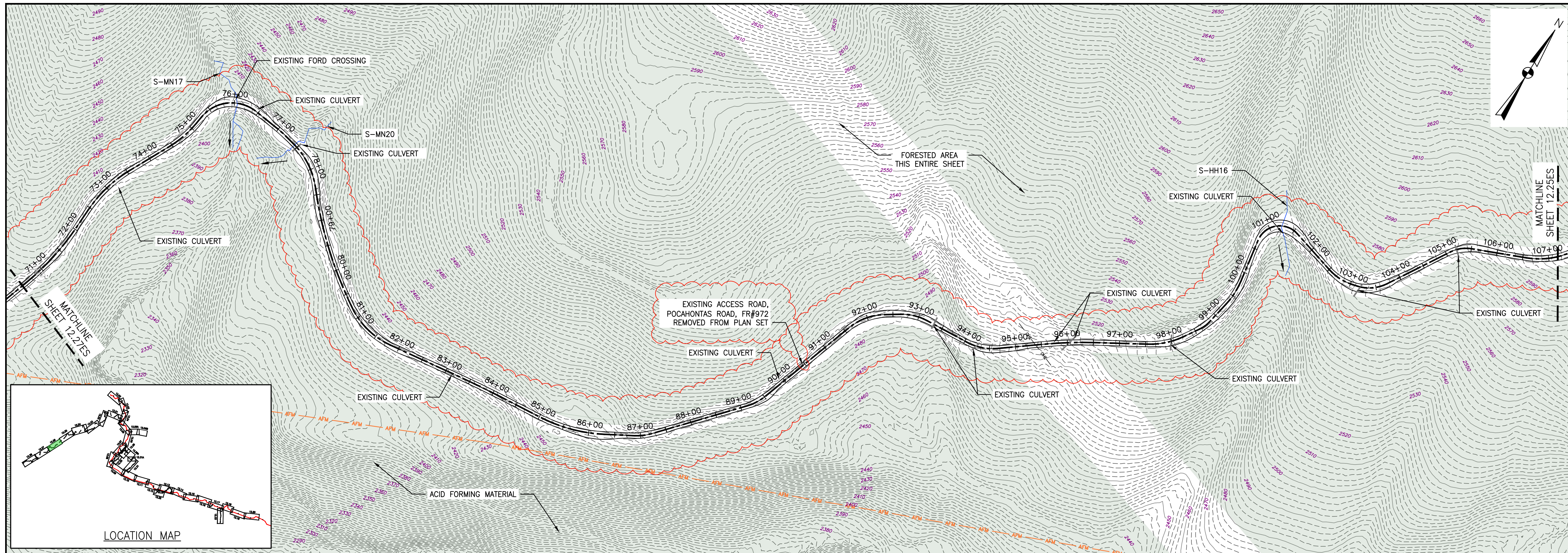
NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
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EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15311

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

EROSION AND SEDIMENT CONTROL PLANS

DRAWN BY: JUZ
CHECKED BY: IHH
APPROVED BY: DCW
DATE: 07/07/2023
SCALE: AS SHOWN
SHT. NO. 12.25ES OF 12.34ES



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

LEGEND

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> --- 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 --- ACID FORMING MATERIAL --- EXISTING FOREST | <ul style="list-style-type: none"> --- PROPOSED ACCESS ROAD CENTERLINE --- PROPOSED PIPELINE --- PROPOSED 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) --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) --- 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) | <ul style="list-style-type: none"> --- 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) |
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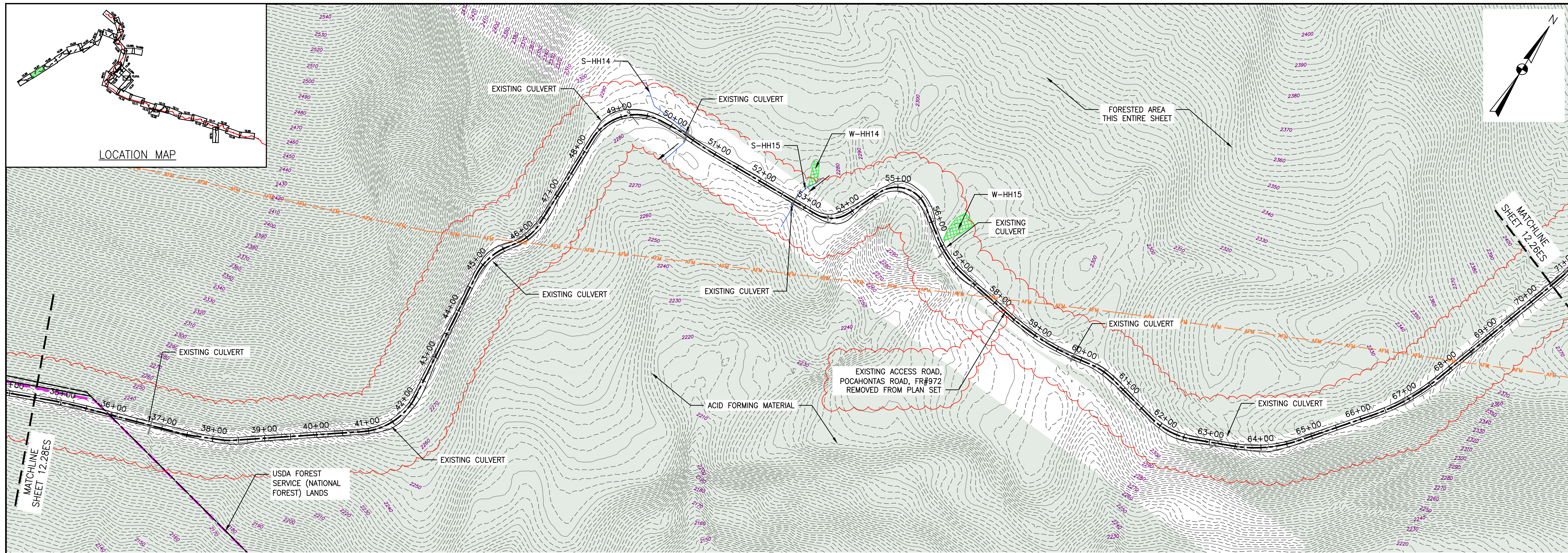
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EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15311

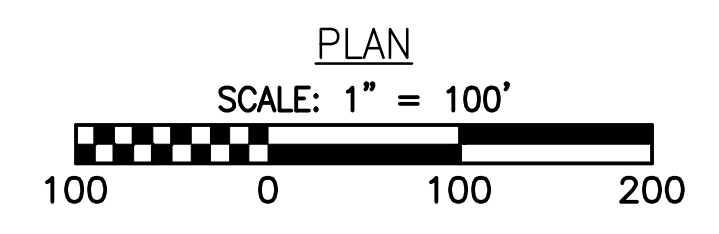
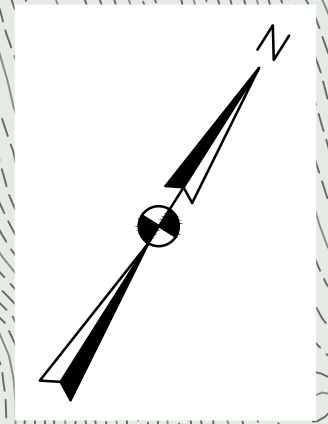
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 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

DRAWN BY: JUZ CHECKED BY: IHH APPROVED BY: DCW DATE: 07/07/2023 SCALE: AS SHOWN SHT. NO. 12.26ES OF 12.34ES



LOCATION MAP



PLAN

SCALE: 1" = 100'

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED ACCESS ROAD CENTERLINE
- STREAM
- PROPOSED PIPELINE
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- PROPOSED SILT FENCE (SEE NOTE 5)
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- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- 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
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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
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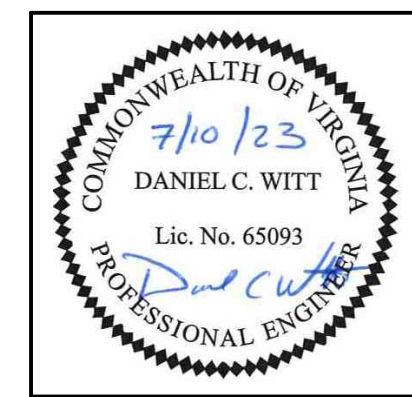
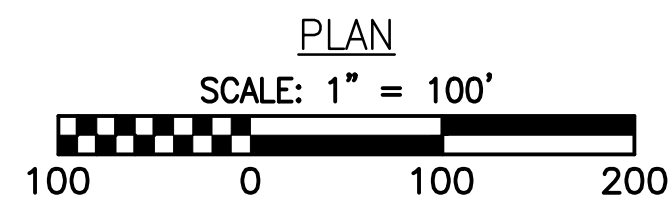
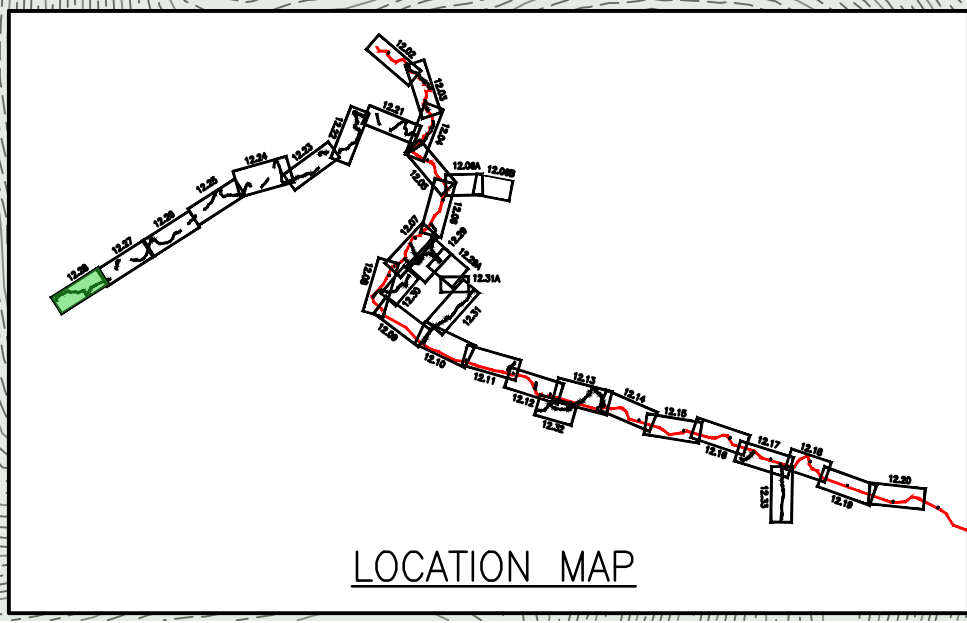
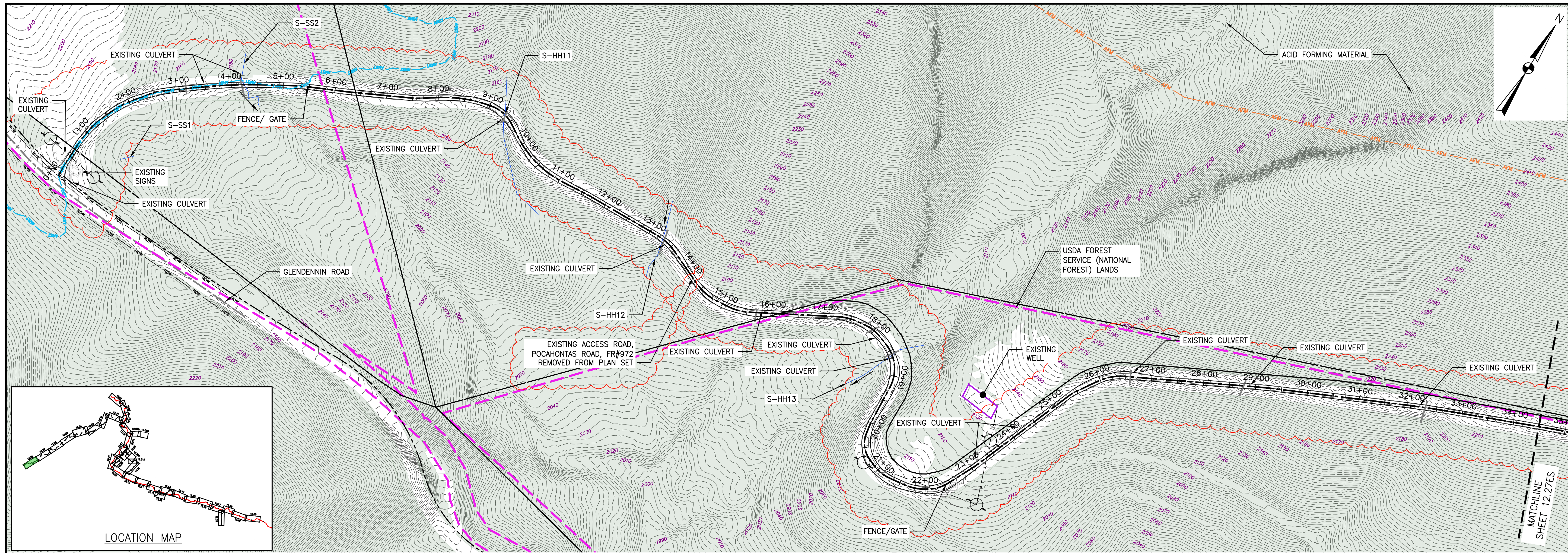
661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
 7/10/23
 DANIEL C. WITT
 Lic. No. 65093
 PROFESSIONAL ENGINEER

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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.

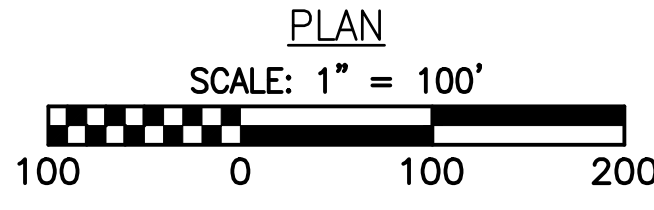
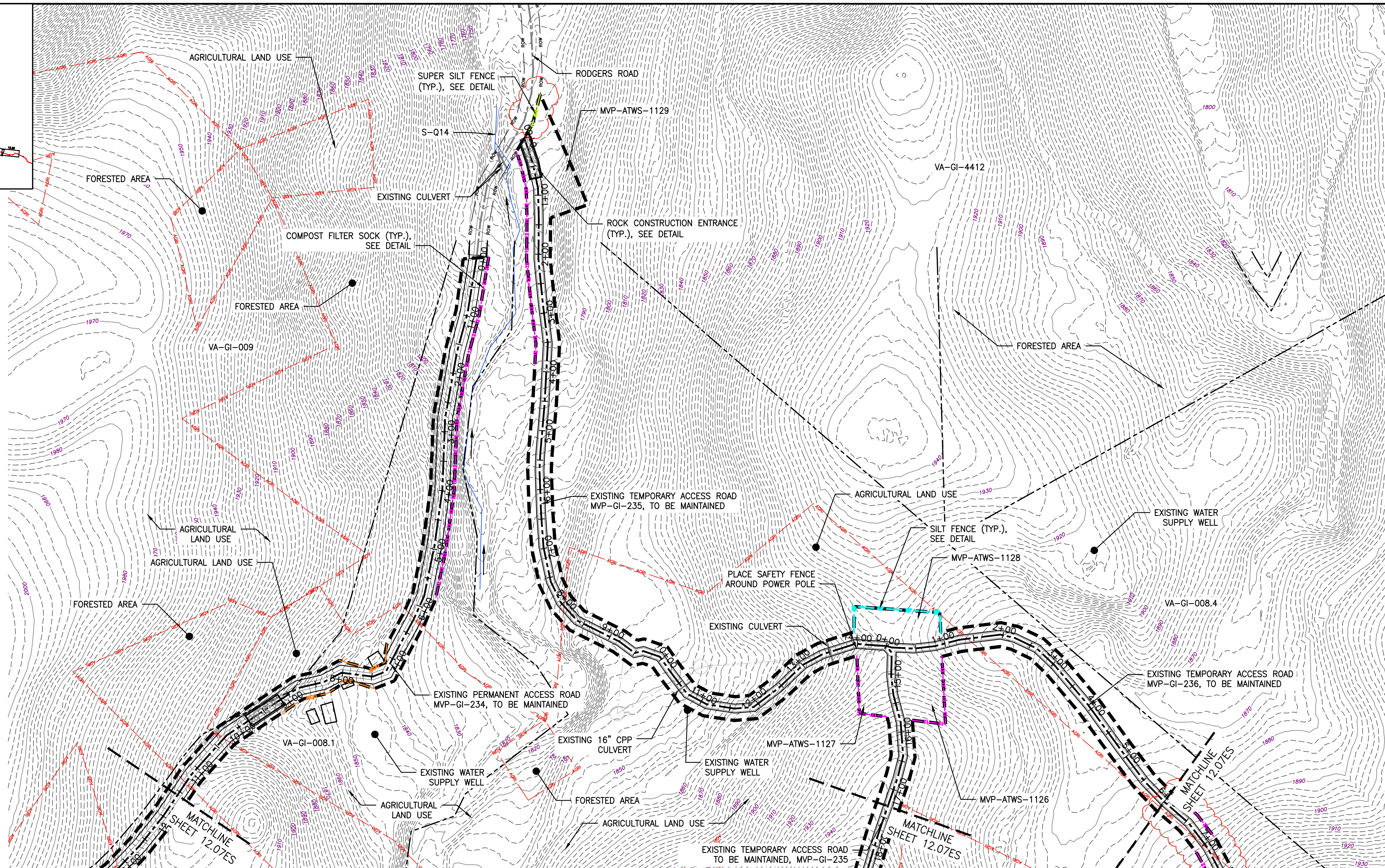
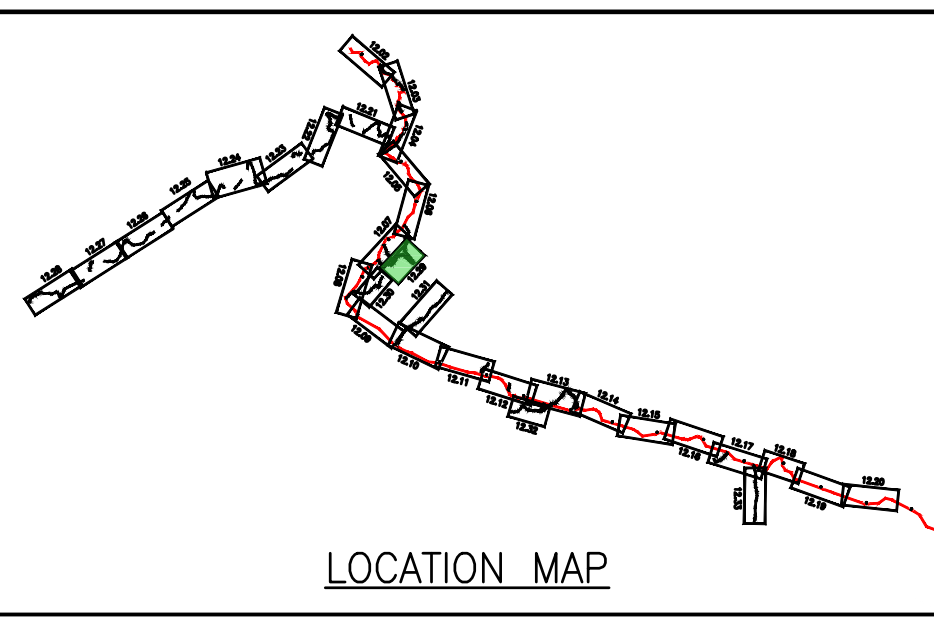
NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
1	07/07/23	JUZ	IHH	DCW	REDLINE TO REMOVE POCAHONTAS ROAD
2	02/26/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/22/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	01/23/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
6	11/28/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS

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

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 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

	DRAWN BY: JUZ CHECKED BY: IHH APPROVED BY: DCW DATE: 07/07/2023 SCALE: AS SHOWN SHT. NO. 12.28ES OF 12.34ES
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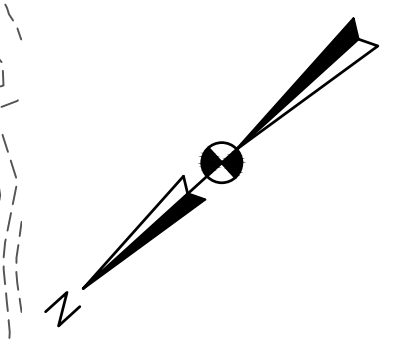


LEGEND

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> --- 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 --- ACID FORMING MATERIAL --- AGRICULTURAL LAND USE BOUNDARY | <ul style="list-style-type: none"> --- PROPOSED ACCESS ROAD CENTERLINE --- PROPOSED PIPELINE --- PROPOSED 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) --- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) --- 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) | <ul style="list-style-type: none"> --- 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) |
|---|--|--|

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.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	02/26/18	KAL	DW	ADDRESS VADEQ COMMENTS
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6	01/26/18	KAL	DW	ADDRESS VADEQ COMMENTS
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4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

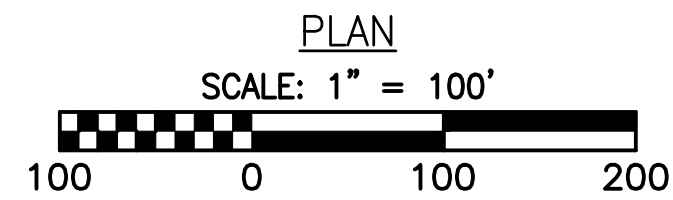
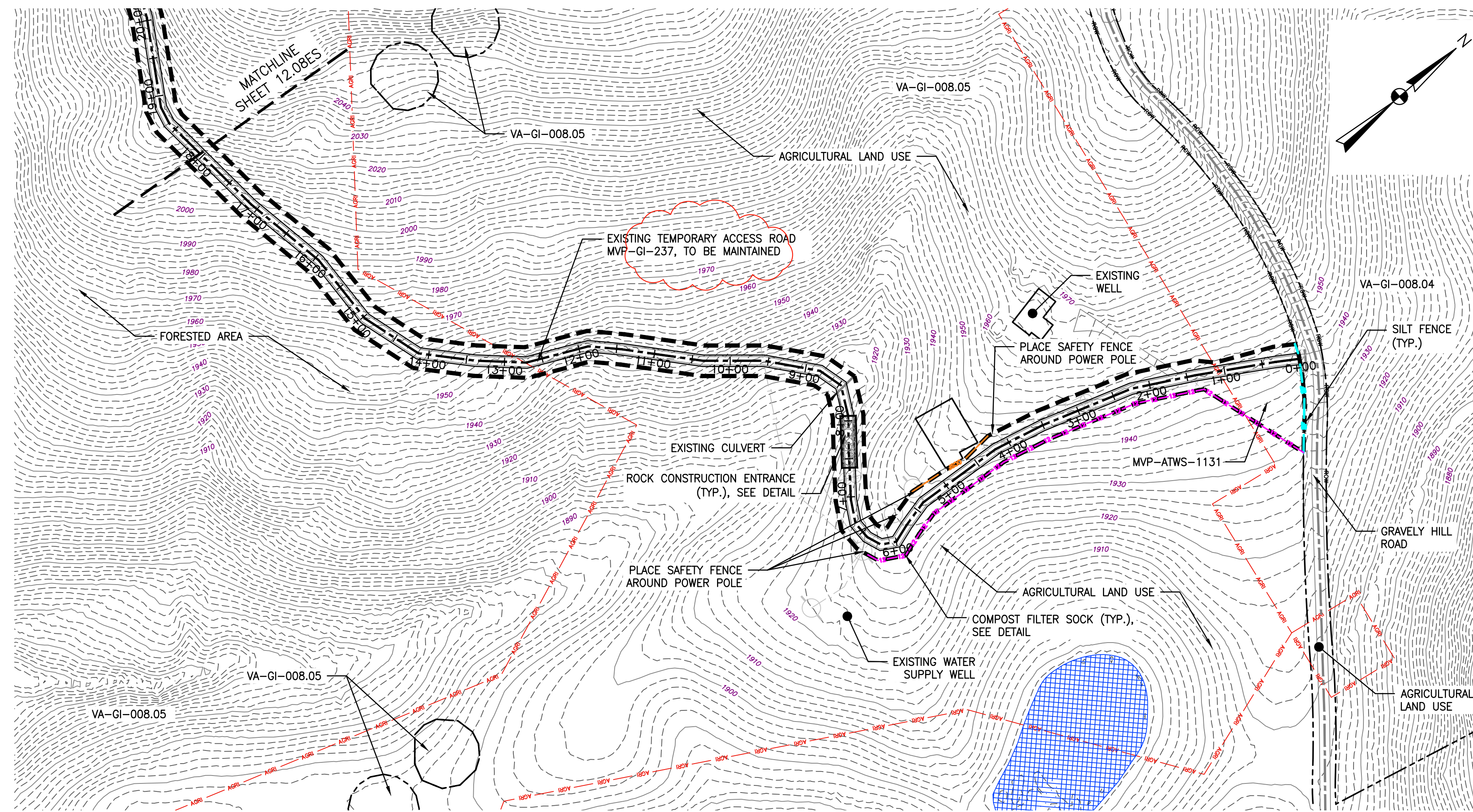
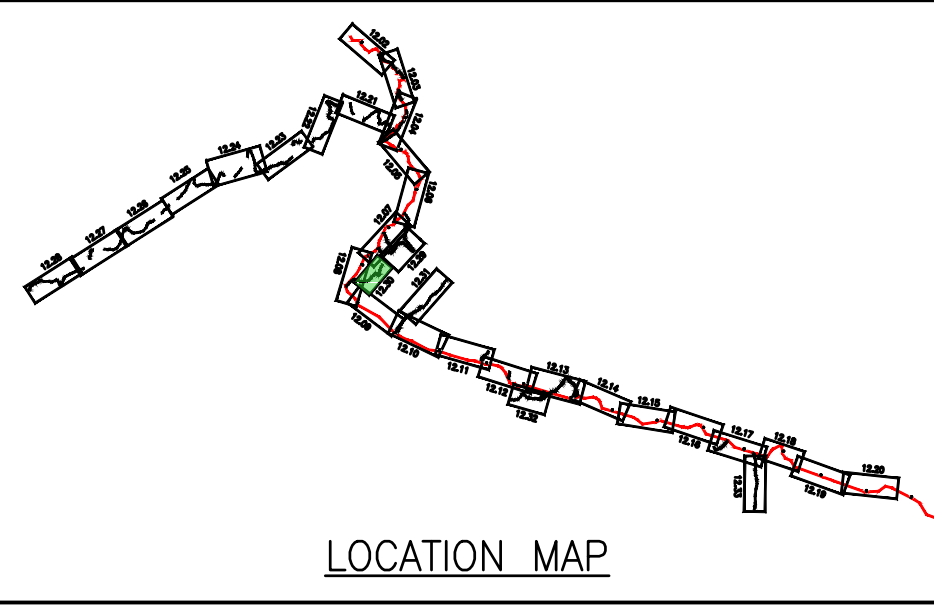
Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF PENNSYLVANIA
 DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 02/26/2018
 SCALE: AS SHOWN
 SHEET NO. 12.29ES OF 12.34ES



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
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- 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
- WETLAND
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- ACID FORMING MATERIAL
- AGRICULTURAL LAND USE BOUNDARY
- 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)

NOTES:

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7	02/22/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	01/26/18	KAL	DW	ADDRESS VADEQ COMMENTS
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3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

REVISIONS:

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

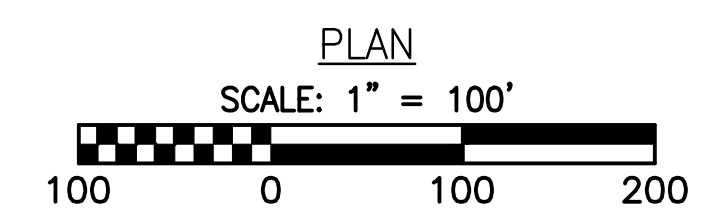
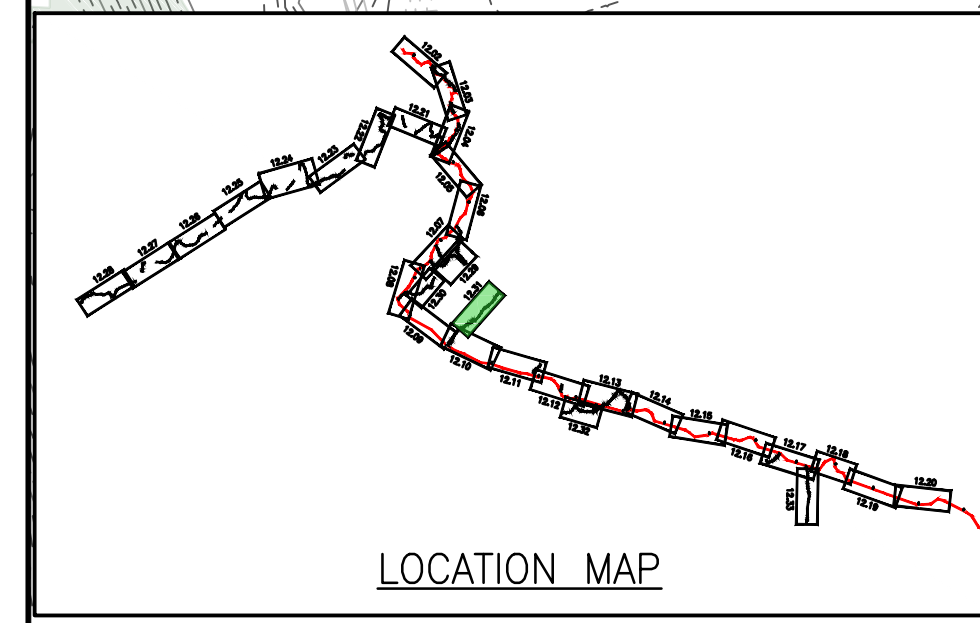
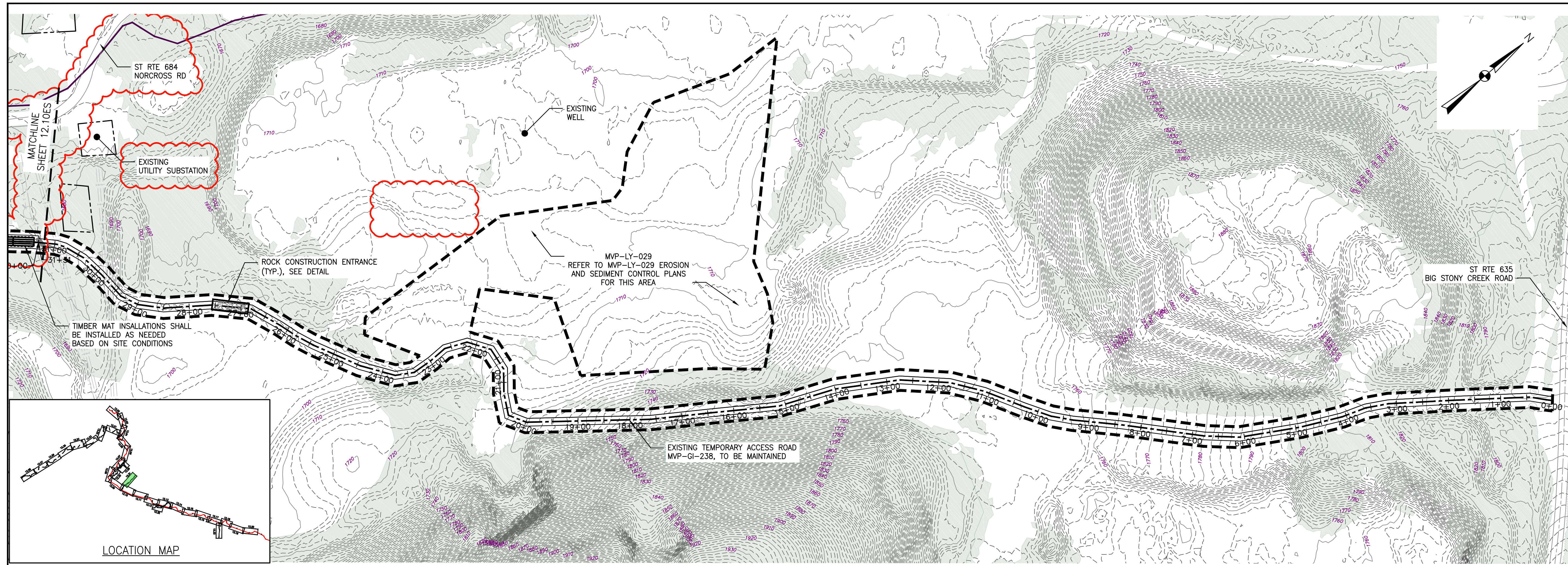
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 02/26/2018
 SCALE: AS SHOWN
 SHEET NO. 12.30ES OF 12.34ES



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)
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--- 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	--- DRAINAGE AREA BOUNDARY
--- TIMBER MAT (SEE DETAIL MVP-ES37)	--- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
--- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)	--- STEEP SLOPE AREAS (SEE NOTE 4)
--- PROPOSED ROCK CONSTRUCTION ENTRANCE	--- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
7	02/22/18	KAL	DW	ADDRESS VADEQ COMMENTS
8	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
9	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
10	04/20/18	JWK	DW	FIELD MODIFICATION
11	02/08/19	JWK	RE	ADDRESS VADEQ COMMENTS TO G-5 FIELD MODIFICATION SUBMITTAL
12	06/07/19	CAR	RE	ADDRESS VADEQ COMMENTS TO G-5 FIELD MODIFICATION SUBMITTAL

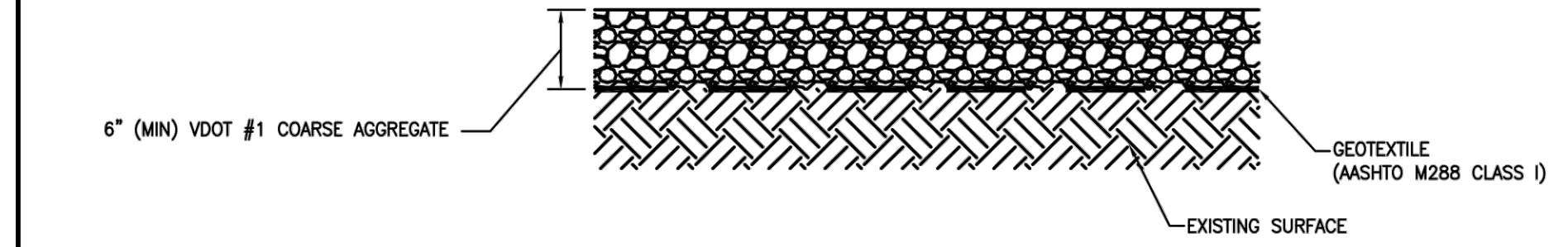
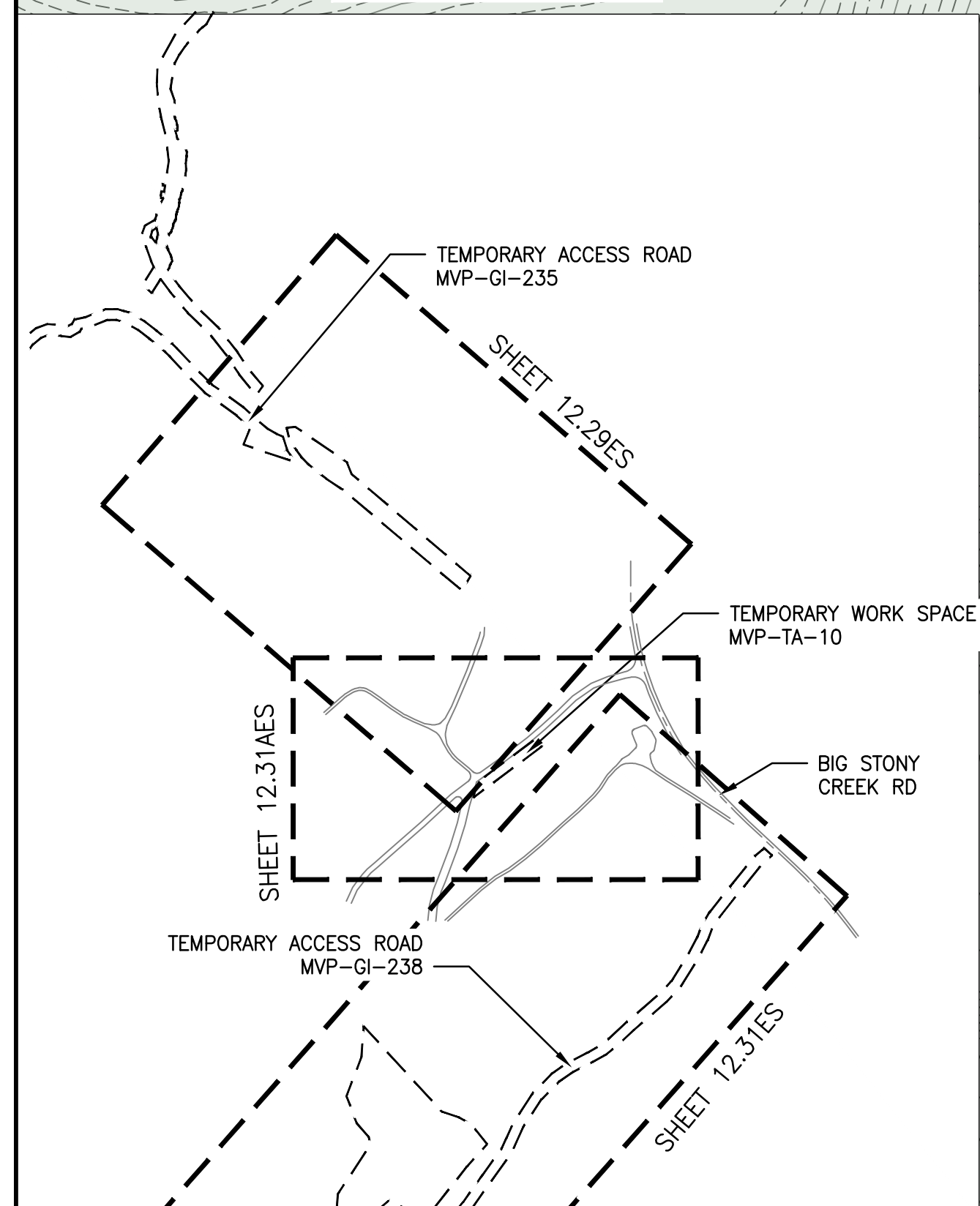
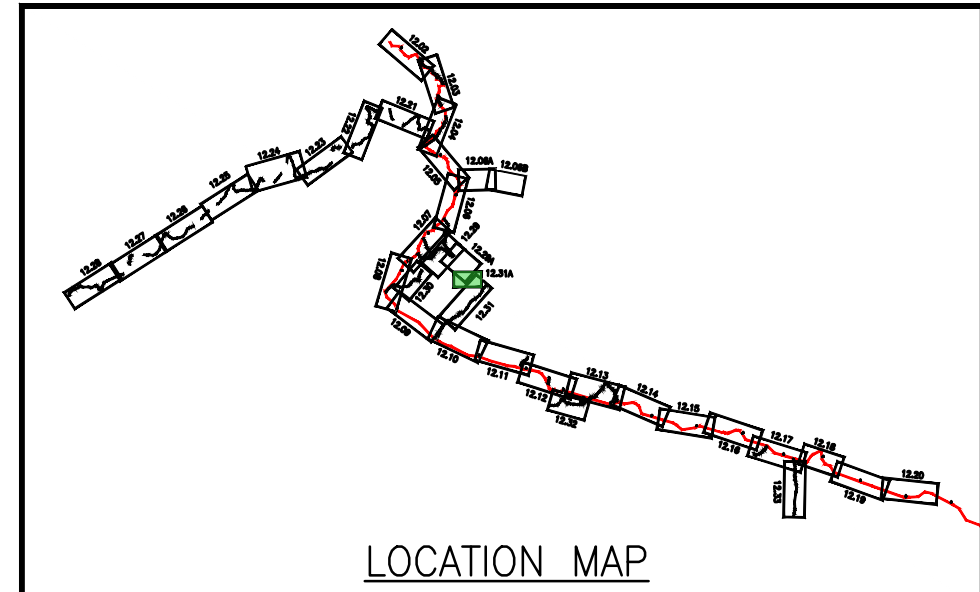
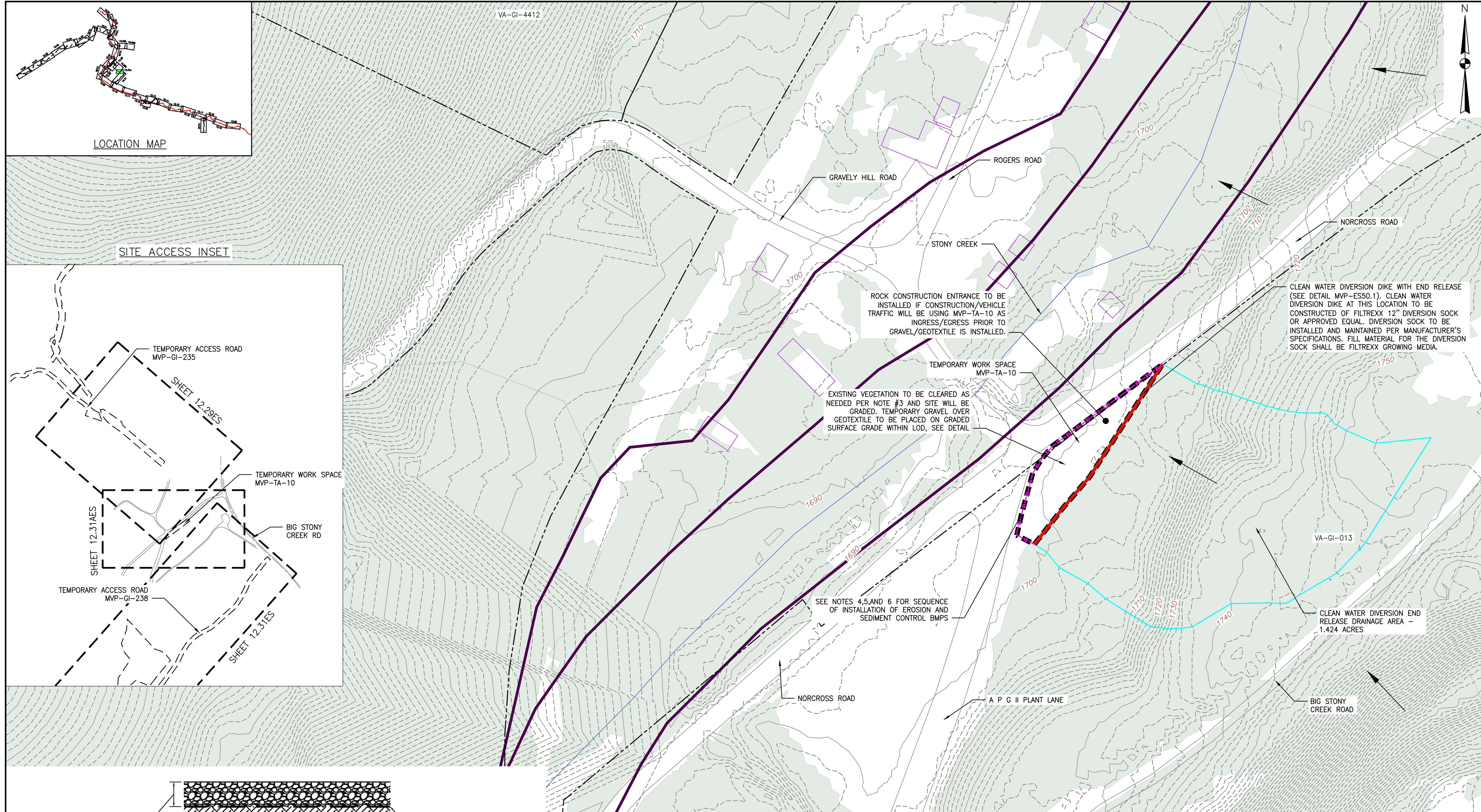
Mountain Valley Pipeline
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EROSION AND SEDIMENT CONTROL PLANS

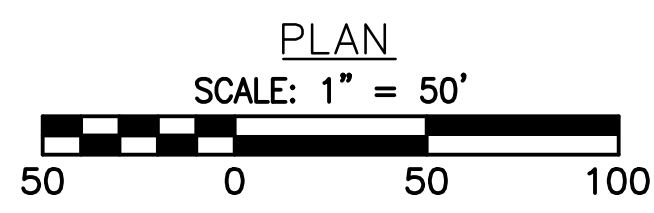
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: JWK
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 06/07/2019
 SCALE: AS SHOWN
 SHEET NO. 12.31ES OF 12.34ES



- TEMPORARY GRAVEL SURFACE SPECIFICATIONS**
- SITE WILL BE GRADED AS REQUIRED AND THE GRAVEL WILL BE PLACED ON GRADE.
 - THE EXISTING SURFACE SHALL BE CLEARED OF ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL BY BRUSH HOGGING THE AREA.
 - A 6-INCH COURSE OF VDOT #1 COARSE AGGREGATE (AS PER SECTION 203 OF VDOT'S ROAD AND BRIDGE SPECIFICATIONS) SHALL BE PROVIDED AS SOON AS VEGETATION REMOVAL IS COMPLETE.
 - IN "HEAVY DUTY" TRAFFIC SITUATIONS THE AGGREGATE SHOULD INSTEAD BE PLACED AT AN 8- TO 10-INCH DEPTH TO AVOID EXCESSIVE DISSIPATION OR MAINTENANCE NEEDS.
 - IF THE GRAVEL SURFACE BECOMES CLOGGED WITH SEDIMENT AND OTHER DEBRIS, IT SHALL BE REMOVED AND REPLACED WITH CLEAN AGGREGATE SO THAT INFILTRATION IS MAINTAINED.
 - GEOTEXTILE SHALL BE NON-WOVEN WITH AASHTO M288 SURVIVABILITY CLASS (1) AND A MIN. PERMITIVITY OF 90 GAL/MIN/FT².

TYPICAL GRAVEL SURFACE DETAIL
N.T.S.



- LEGEND**
- EXISTING PROPERTY LINE
 - 1160 EXISTING CONTOUR (MAJOR)
 - EXISTING CONTOUR (MINOR)
 - EXISTING EDGE OF ROAD (SURVEYED)
 - EXISTING ROAD CENTERLINE
 - PROPOSED LIMIT OF DISTURBANCE
 - 12-12-12-12 PROPOSED 12" COMPOST FILTER SOCK
 - SS-SS PROPOSED SUPER SILT FENCE
 - CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50.1)
 - DRAINAGE AREA BOUNDARY
 - STREAM
 - FEMA 100 YEAR FLOODPLAIN
 - FLOW DIRECTION
 - EXISTING FOREST

TOPO DATA SOURCE:
CONTOUR DATA DERIVED FROM RADFORD UNIVERSITY ONLINE RESOURCE

- NOTES:**
1. ALL FACILITIES ARE TEMPORARY AND WILL BE REMOVED FOLLOWING CONSTRUCTION. ALL GRAVEL WILL BE REMOVED AND THE LOD WILL BE REVEGETATED PER THE TABLES ON DETAILS MVP-ES11.1 TO MVP-ES11.9 OR PER LANDOWNER REQUEST.
 2. 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.
 3. VEGETATION WILL BE REMOVED BY BRUSH HOGGING THE AREA; TEMPORARY GRAVEL OVER GEOTEXTILE (SEE DETAIL) WILL BE INSTALLED AFTER ALL VEGETATION/TREES ARE REMOVED.
 4. THE AREA WILL BE DENuded AND STABILIZED WITH GRAVEL PRIOR TO ANY RUNOFF-GENERATING STORMS OCCUR.
 5. ANY SEDIMENT TRACKED ONTO THE ROADWAY WILL NEED TO BE REMOVED PRIOR TO THE END OF EACH BUSINESS DAY.
 6. PRIOR TO TEMPORARY GRAVEL REMOVAL AS PART OF RESTORATION, INSTALL COMPOST FILTER SOCK ALONG WESTERN EDGE OF THE WORK SPACE AND INSTALL A CLEAN WATER DIVERSION (DIVERSION SOCK) AND ASSOCIATED END RELEASE ALONG THE EASTERN EDGE OF THE SITE. COMPOST FILTER SOCK, CLEAN WATER DIVERSION, AND END RELEASE WILL REMAIN UNTIL THE SITE IS REVEGETATED.

NO.	DATE	APPD.	CHKD.	DWN.	REVISIONS
1	06/29/23	IHH	DCW	JJZ	REVISIONS DUE TO VIDEO COMMENTS
2	06/16/23	JJZ	IHH	DCW	REVISIONS DUE TO VIDEO COMMENTS
0	01/03/22	CAR	RE	TD	TEMPORARY WORK SPACE ADDED TO PROVIDE ADEQUATE TRUCK TURNING RADIUS

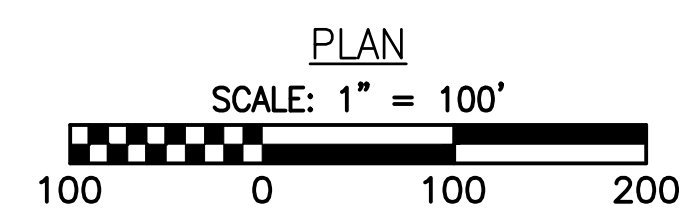
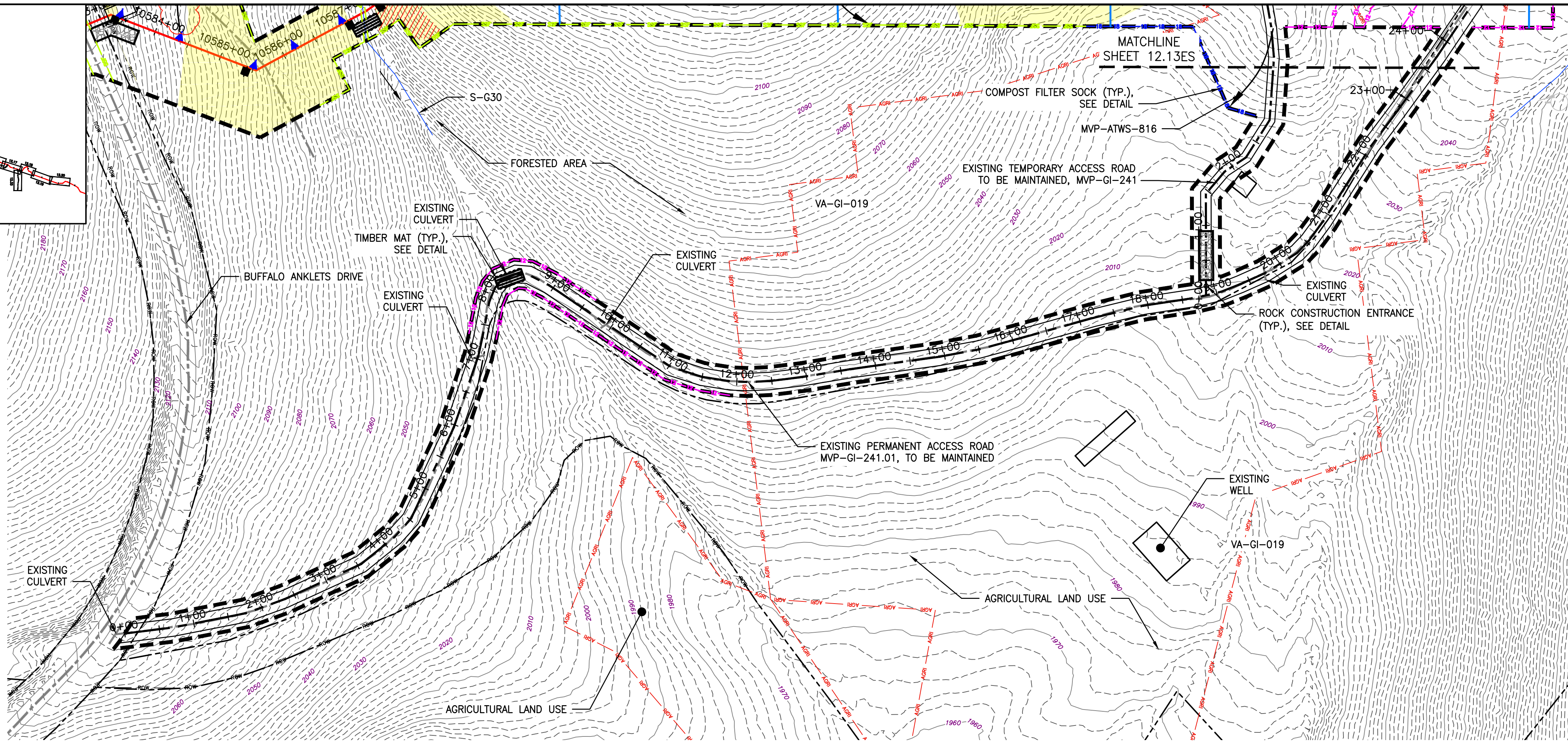
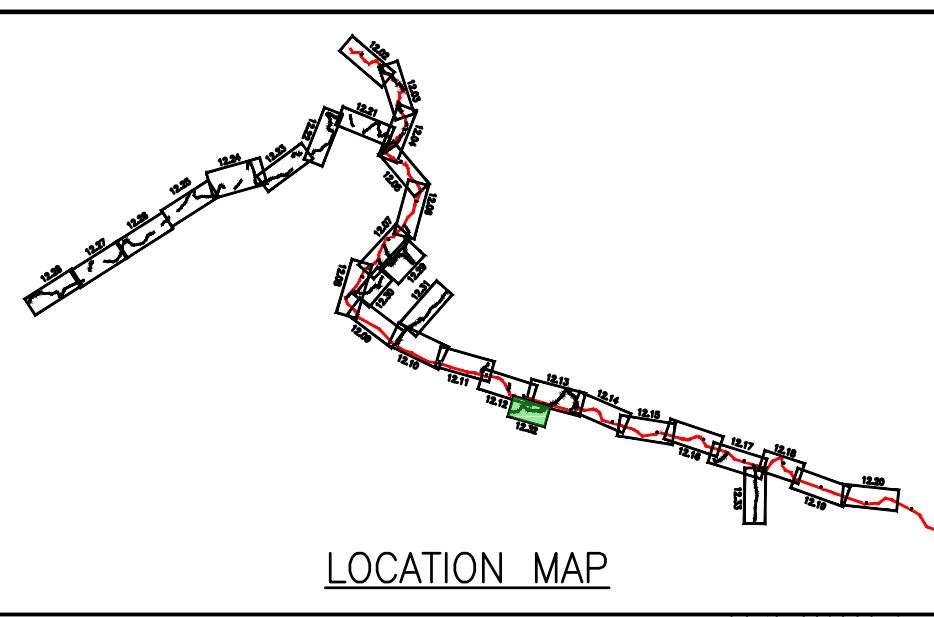
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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
6/29/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY: JZ
CHECKED BY: IHH
APPROVED BY: DCW
DATE: 06/29/2023
SCALE: AS SHOWN
SHT. NO. 12.31AES OF 14.81ES

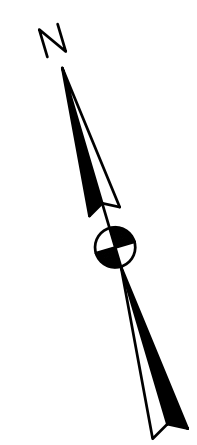


LEGEND

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- STREAM
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- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
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- AGR --- AGRICULTURAL LAND USE BOUNDARY
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- PROPOSED PIPELINE
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- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- 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)

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.



NO.	DATE	CHKD.	APPD.	DESCRIPTION
8	02/26/18	KAL	DW	ADDRESS VADEQ COMMENTS
7	02/22/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	01/26/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	01/07/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	11/28/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	11/01/17	KAL	DW	ADDRESS VADEQ COMMENTS

Mountain Valley Pipeline
EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 8 - GILES COUNTY, VIRGINIA

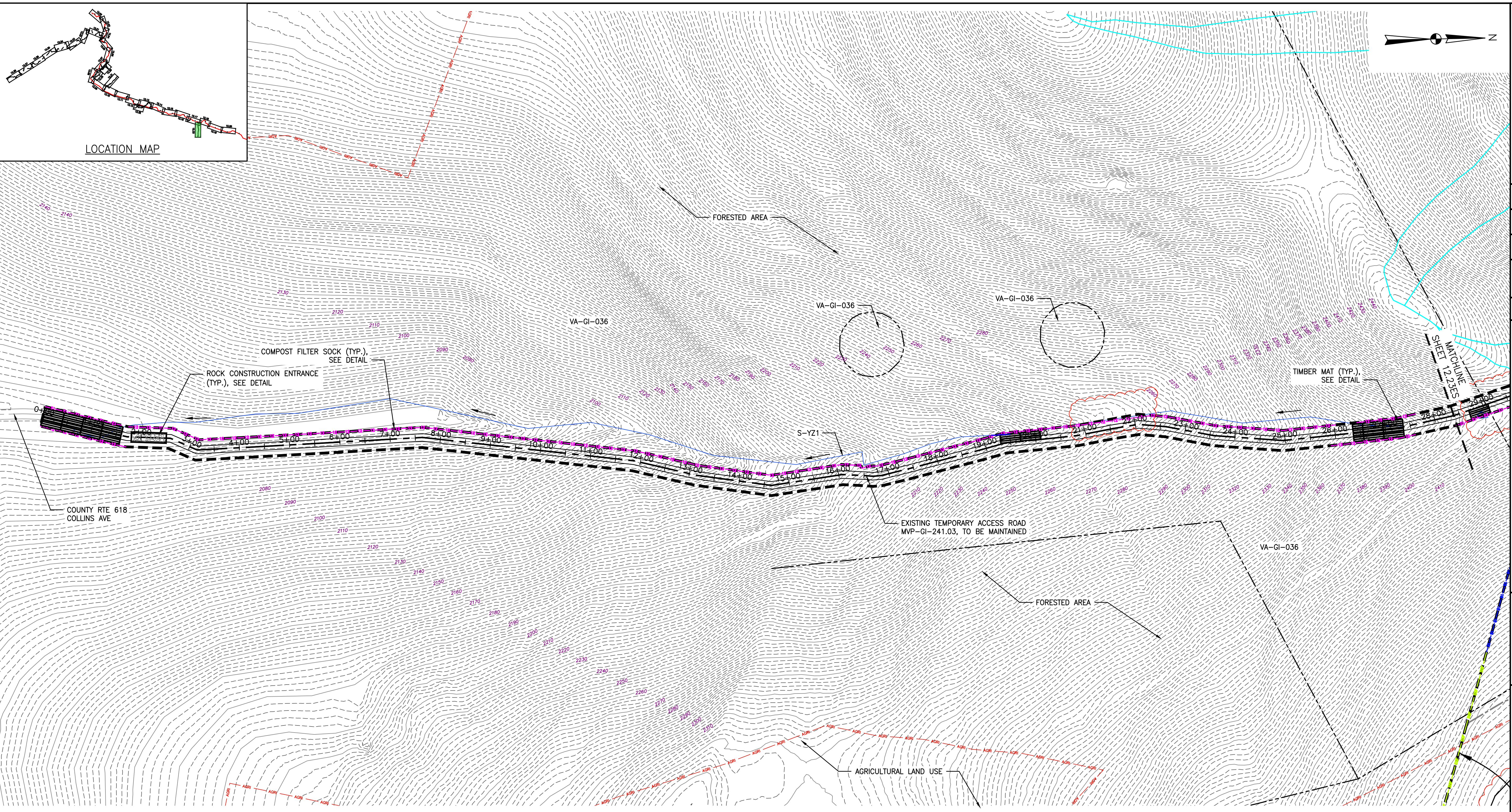
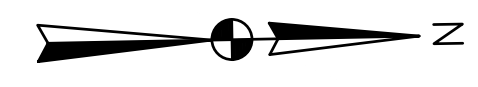
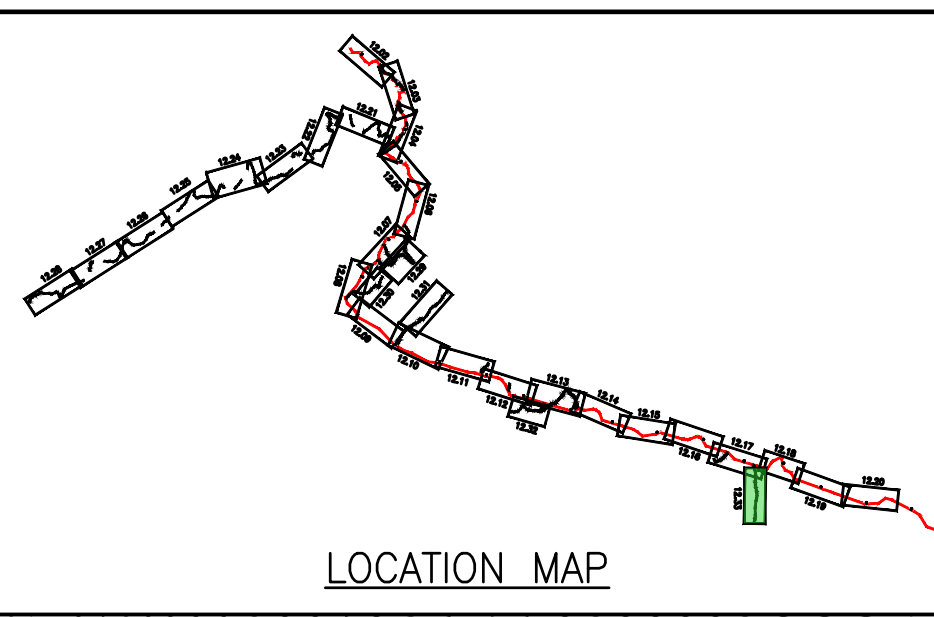
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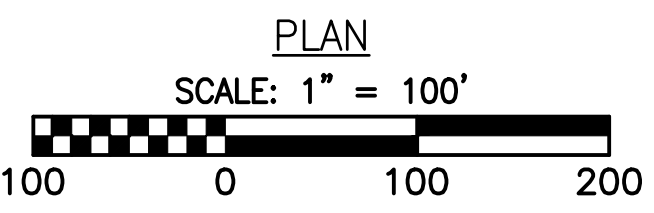
EROSION AND SEDIMENT CONTROL PLANS

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APPROVED BY:	DW
DATE:	02/26/2018
SCALE:	AS SHOWN
REVISION	
SHT. NO. 12.32ES OF 12.34ES	



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
--- AGRICULTURAL LAND USE BOUNDARY	--- 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)
--- PROPOSED ROCK CONSTRUCTION ENTRANCE	--- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
--- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)	--- STEEP SLOPE AREAS (SEE NOTE 4)
--- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)	--- PERMANENT ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)

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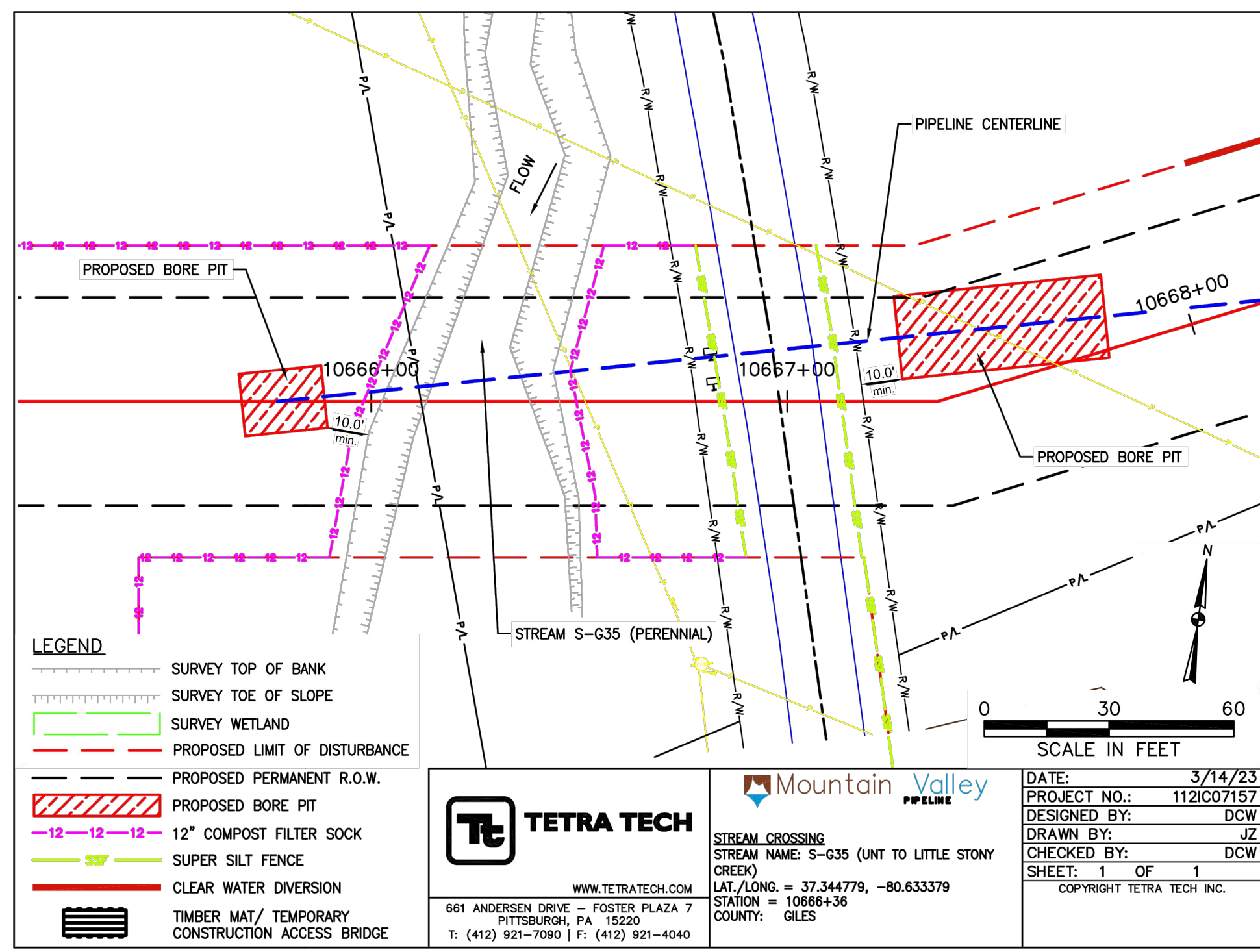
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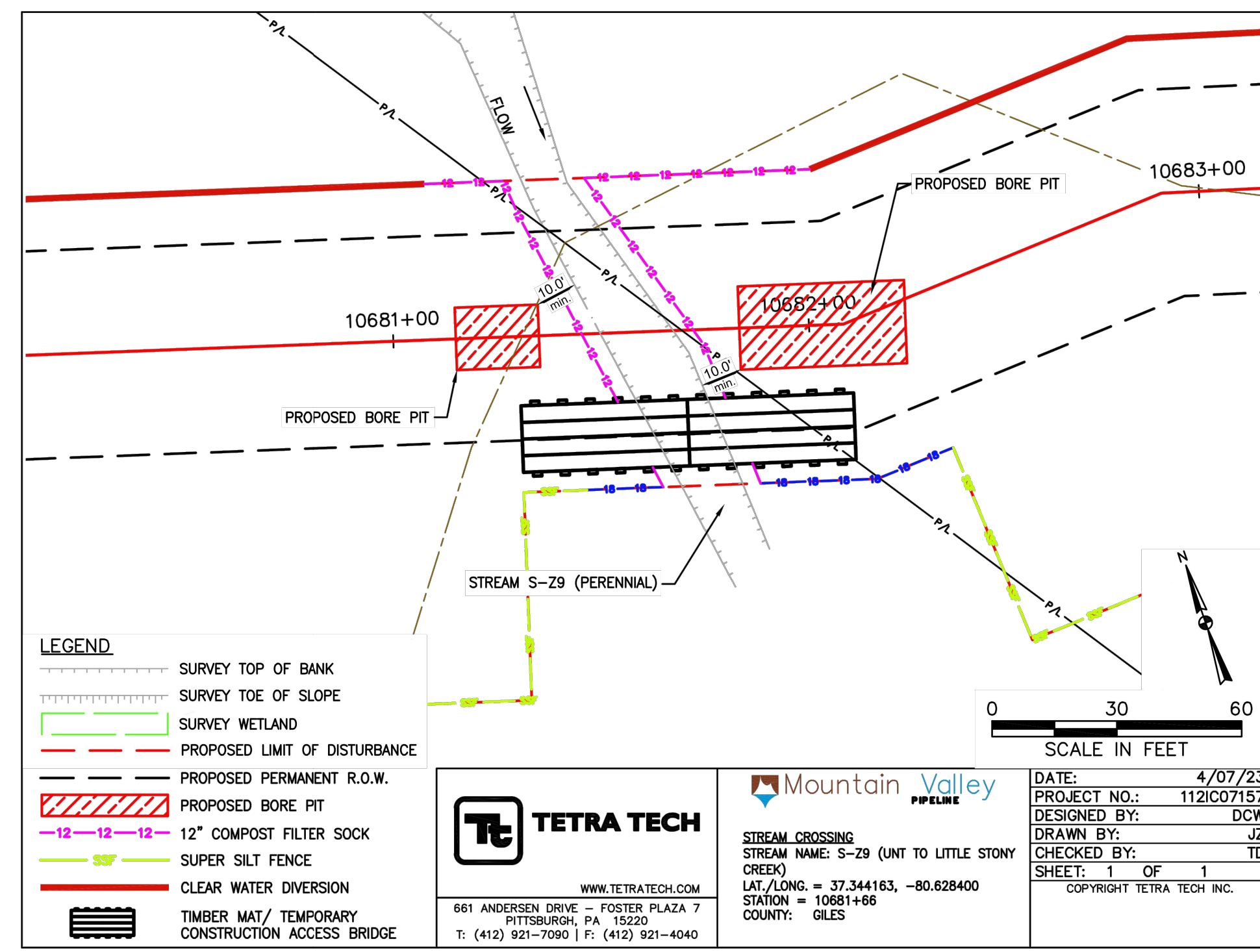
EROSION AND SEDIMENT CONTROL PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

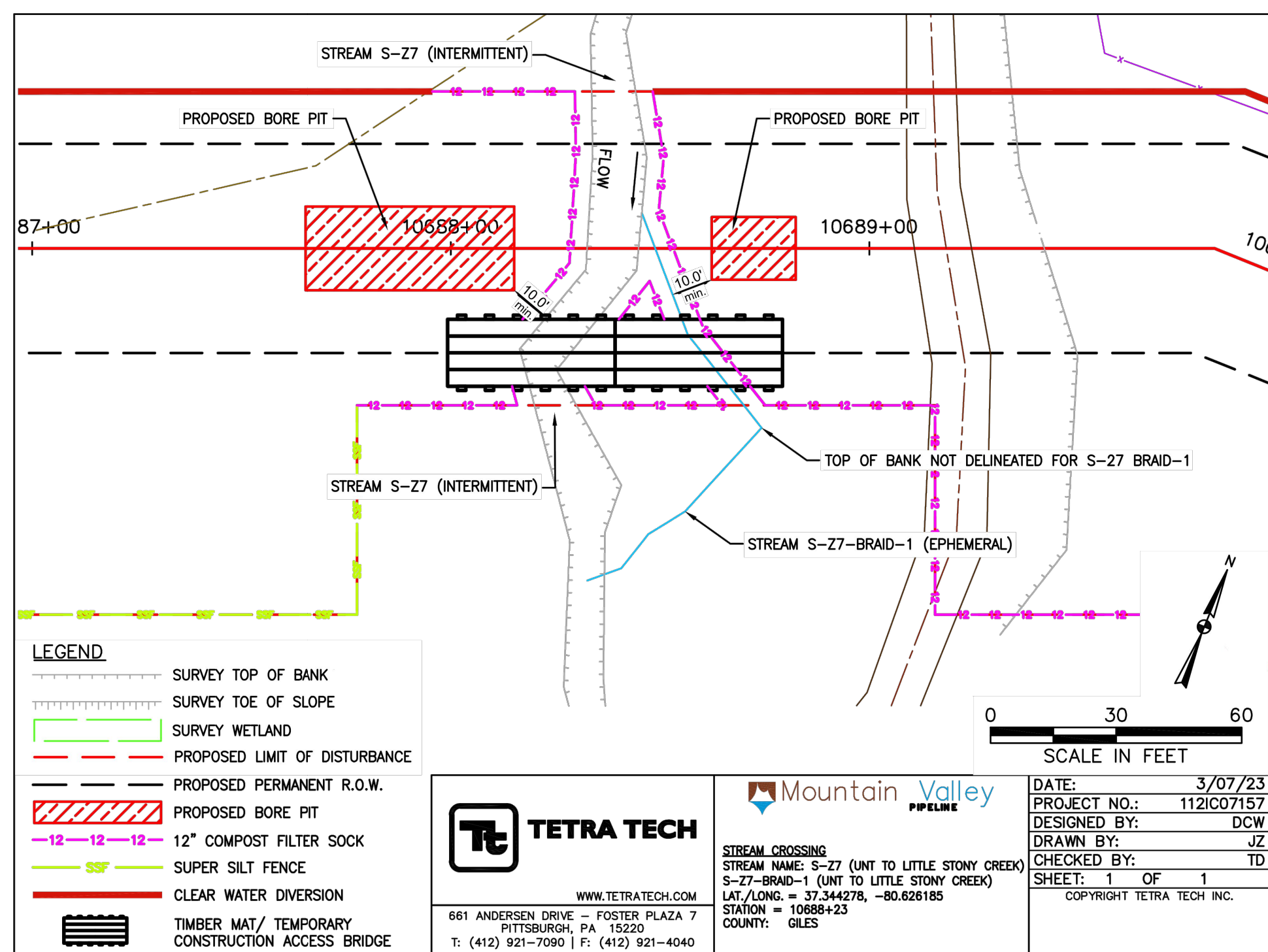
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BORE PIT STREAM CROSSING S-G35
CROSSING ID G-009
PLAN VIEW



BORE PIT STREAM CROSSING S-Z9
CROSSING ID G-011
PLAN VIEW



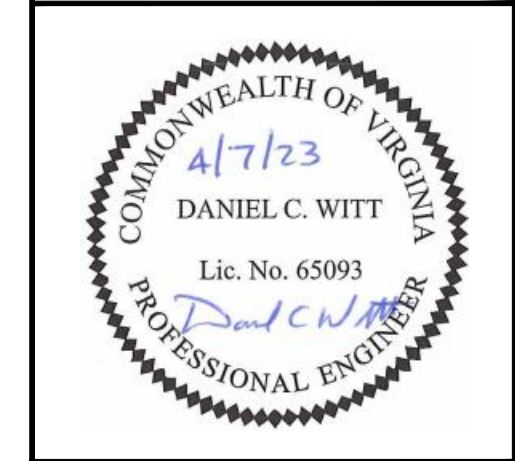
BORE PIT STREAM CROSSING S-27 S-27-BRAID-1
CROSSING ID G-012
PLAN VIEW

NO.	DATE	CHKD.	APPD.	DESCRIPTION
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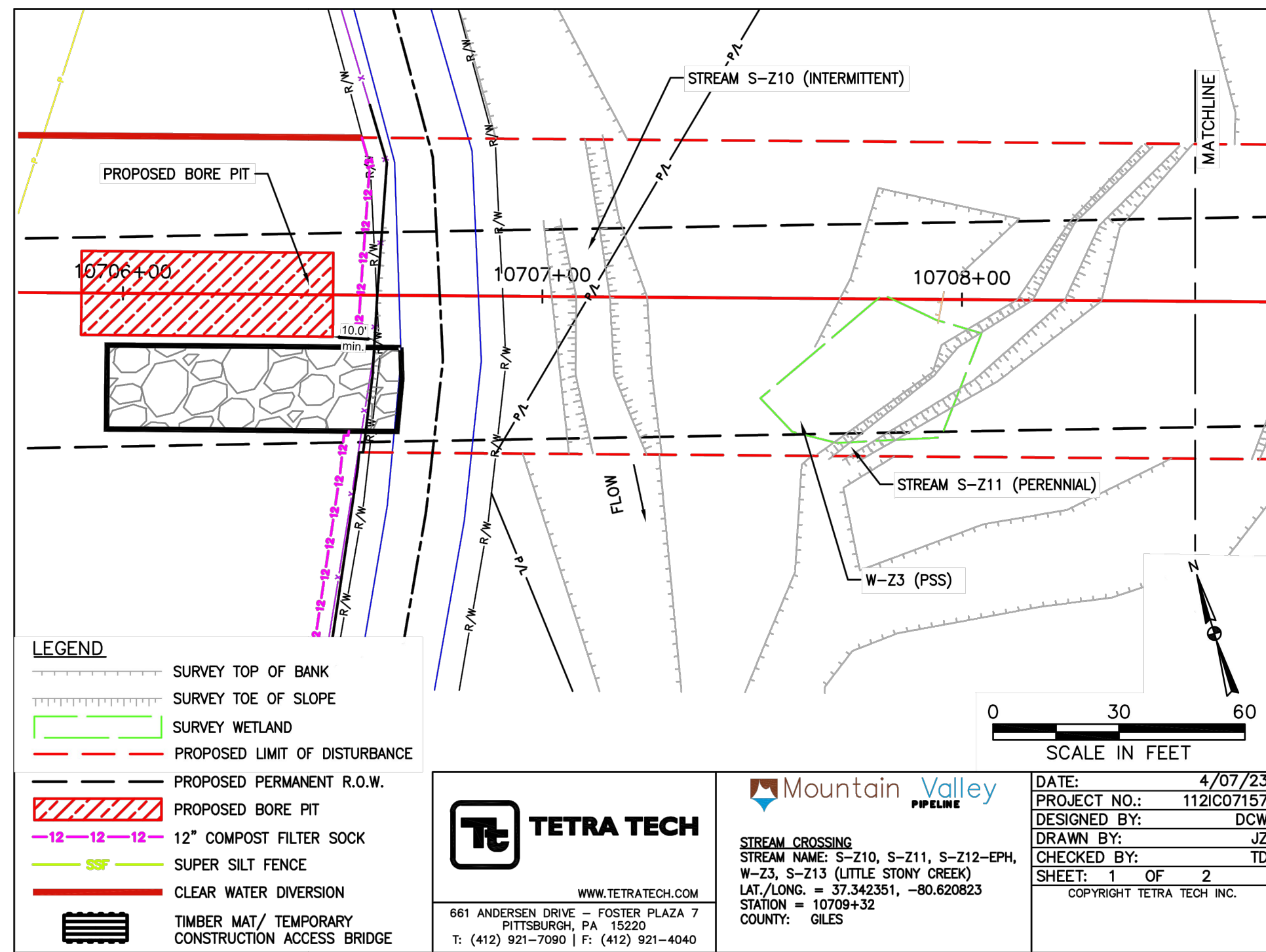
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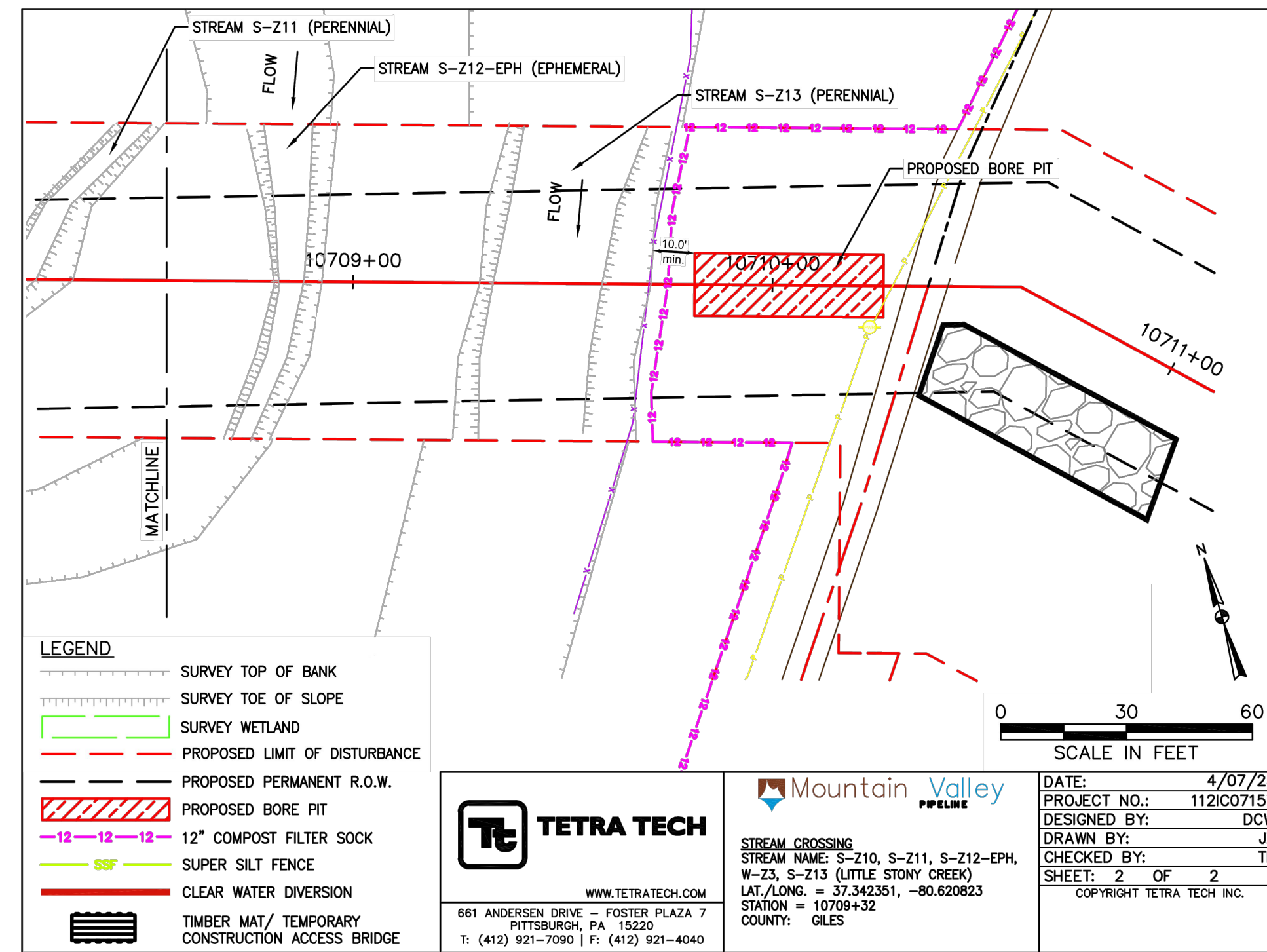
EROSION AND SEDIMENT CONTROL PLANS



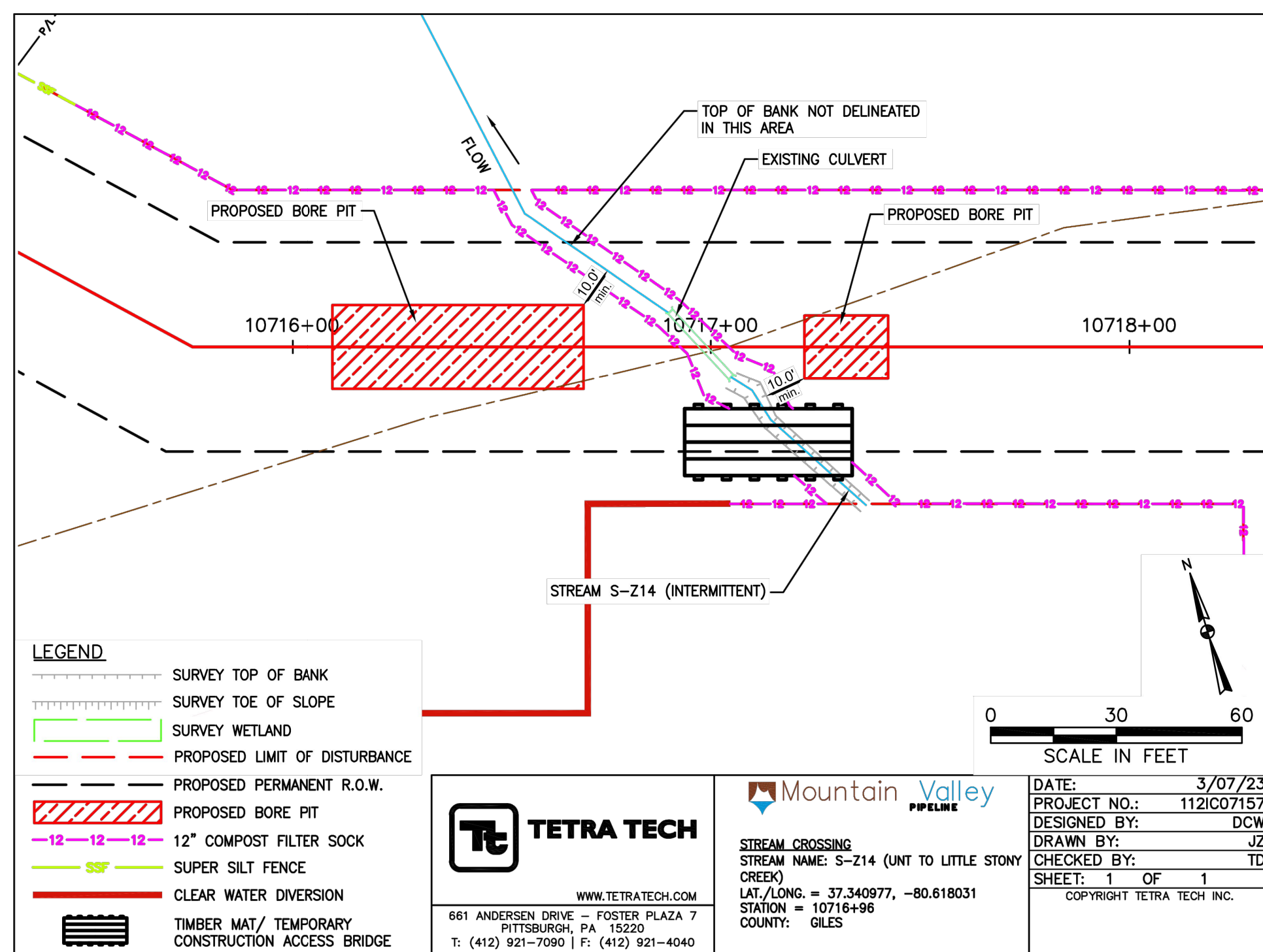
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BORE PIT STREAM CROSSING S-210, W-23, S-211, S-212, S-213
CROSSING ID G-013
PLAN VIEW



BORE PIT STREAM CROSSING S-210, W-23, S-211, S-212, S-213
CROSSING ID G-013
PLAN VIEW



BORE PIT STREAM CROSSING S-214
CROSSING ID G-014
PLAN VIEW

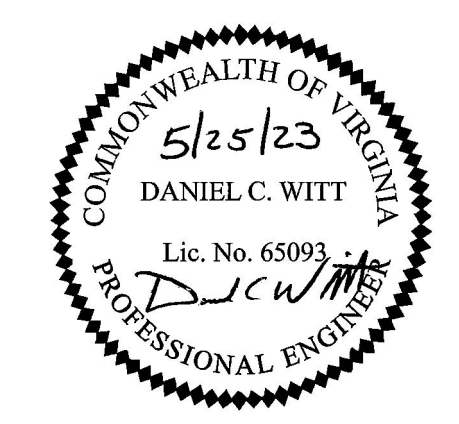
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-	05/25/23	JUZ	1HH	DCW
-		DWN:		

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
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