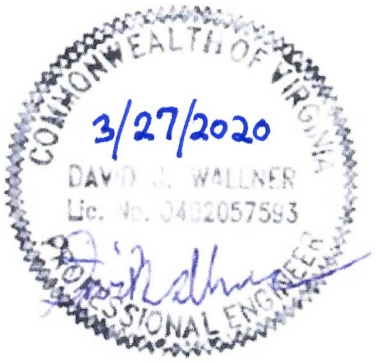
By virtue of this seal and signature, all supporting documents included in this package are accurate and support the design presented herein.



SPREAD I

EXISTING PERMANENT ACCESS ROAD MVP-FR-309.05

EXISTING TEMPORARY ACCESS ROAD MVP-FR-309.06

EXISTING TEMPORARY ACCESS ROAD MVP-FR-310

EXISTING TEMPORARY ACCESS ROAD MVP-FR-309

EXISTING TEMPORARY ACCESS ROAD MVP-FR-311

EXISTING PERMANENT ACCESS ROAD MVP-MLV-AR-31

EXISTING PERMANENT ACCESS ROAD MVP-MVL-AR-32

EXISTING TEMPORARY ACCESS ROAD MVP-FR-306.04

MATCHLINE SHEET 14.57ES

EXISTING TEMPORARY ACCESS ROAD MVP-FR-306.03

EXISTING PERMANENT ACCESS ROAD MVP-FR-306.02

START SPREAD 11

EXISTING TEMPORARY ACCESS ROAD MVP-FR-313

EXISTING TEMPORARY ACCESS ROAD MVP-FR-314

EXISTING TEMPORARY ACCESS ROAD MVP-FR-316

EXISTING PERMANENT ACCESS ROAD MVP-FR-315

EXISTING TEMPORARY ACCESS ROAD MVP-FR-317.01

EXISTING TEMPORARY ACCESS ROAD MVP-FR-317

EXISTING TEMPORARY ACCESS ROAD MVP-FR-318

EXISTING TEMPORARY ACCESS ROAD MVP-FR-319.01

EXISTING TEMPORARY ACCESS ROAD MVP-FR-319

EXISTING TEMPORARY ACCESS ROAD MVP-FR-320

MATCHLINE SHEET 15.02ES

SPREAD I

MP 264.0
MP 264.5
MP 265.0
MP 265.5
MP 266.0
MP 266.5
MP 267.0
MP 267.5
MP 268.0
MP 268.5
MP 269.0
MP 269.5
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MP 275.5
MP 276.0
MP 276.5
MP 277.0
MP 277.5
MP 278.0

15.04 15.05 15.06 15.07 15.08 15.09 15.10 15.11 15.12 15.13 15.14 15.15 15.16 15.17 15.18 15.19 15.20 15.21 15.22 15.23 15.24 15.25 15.26 15.27 15.28 15.29 15.30
15.79 15.80 15.81 15.82 15.83

N

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Mountain Valley PIPELINE

KEY PLAN

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.01ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.01(S11).dwg PLOTTED ON: 3/2/2018 4:11 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

SPREAD I

MATCHLINE SHEET 15.01ES

15.84

EXISTING TEMPORARY ACCESS ROAD MVP-FR-321

15.85

EXISTING PERMANENT ACCESS ROAD MVP-FR-322

15.86

EXISTING TEMPORARY ACCESS ROAD MVP-FR-323

15.31 15.32 15.33 15.34 15.35 15.36 15.37 15.38 15.39 15.40 15.41 15.42 15.43 15.44 15.45 15.46 15.47 15.48 15.49 15.50 15.51 15.52 15.53 15.87 15.88

MP 278.5 MP 279.0 MP 279.5 MP 280.0 MP 280.5 MP 281.0 MP 281.5 MP 282.0 MP 282.5 MP 283.0 MP 283.5 MP 284.0 MP 284.5 MP 285.0 MP 285.5 MP 286.0 MP 286.5 MP 287.0 MP 287.5 MP 288.0 MP 288.5 MP 289.0 MP 289.5 MP 290.0

PROPOSED TEMPORARY ACCESS ROAD MVP-FR-321.01

PROPOSED PERMANENT ACCESS ROAD MVP-MLV-AR-33

EXISTING TEMPORARY ACCESS ROAD MVP-FR-324

EXISTING TEMPORARY ACCESS ROAD MVP-PI-326

EXISTING PERMANENT ACCESS ROAD MVP-PI-325

EXISTING TEMPORARY ACCESS ROAD MVP-PI-328

PROPOSED TEMPORARY ACCESS ROAD MVP-PI-329

EXISTING TEMPORARY ACCESS ROAD MVP-PI-331

EXISTING TEMPORARY ACCESS ROAD MVP-PI-330

MATCHLINE SHEET 15.03ES

SPREAD I

Union Hall · Penhook · Ajax · Reddies Gap · Greer Knob · Sandy Level · Dickinson · Trevevine · Progress · Laprades Mill · Musselville · Canada Bridge · Kirby Ford Bridge · Haines Bridge · Zeigler Ford

Smith Mountain Lake · Little Bull Run · Bull Run · Snow Creek · Pigg River · Tanyard Branch · Poplar Camp Creek · Tenmile Creek · Reddies River · Sandy Level Ch

FRANKLIN CO. PENNSYLVANIA CO.

N

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

KEY PLAN

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN

REVISION

SHT. NO. 15.02ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.02(S11).dwg PLOTTED ON: 3/2/2018 4:12 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

SPREAD I

N

MATCHLINE SHEET 15.02ES

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MP 290.5 MP 291.0 MP 291.5 MP 292.0 MP 292.5 MP 293.0 MP 293.5 MP 294.0 MP 294.5 MP 295.0 MP 295.5 MP 296.0 MP 296.5 MP 297.0 MP 297.5 MP 298.0 MP 298.5 MP 299.0 MP 299.5 MP 300.0 MP 300.5 MP 301.0 MP 301.5 MP 302.0 MP 302.5 MP 303.0

EXISTING TEMPORARY ACCESS ROAD MVP-PI-332

PROPOSED TEMPORARY ACCESS ROAD MVP-PI-332.01

SPREAD I

PROPOSED PERMANENT ACCESS ROAD MVP-MLV-AR-34

EXISTING TEMPORARY ACCESS ROAD MVP-PI-336.01

EXISTING PERMANENT ACCESS ROAD MVP-PI-337

EXISTING PERMANENT ACCESS ROAD MVP-PI-338

EXISTING PERMANENT ACCESS ROAD MVP-PI-338.01

PROPOSED PERMANENT ACCESS ROAD MVP-MLV-AR-35

EXISTING TEMPORARY ACCESS ROAD MVP-PI-339

EXISTING PERMANENT ACCESS ROAD MVP-PI-340

TBD PERMANENT ACCESS ROAD MVP-PI-344

PROPOSED PERMANENT ACCESS ROAD MVP-PI-343.01

END SPREAD 11

PROPOSED PERMANENT ACCESS ROAD MVP-PI-343

Cherrystone Creek Fork

Pork Bridge

Climax Green Pond Hollywood Rondo Chatham Calvston Whitethorn Vadens Mill Smothers Gretna Rolling Mill Whittles Teamsco Village

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

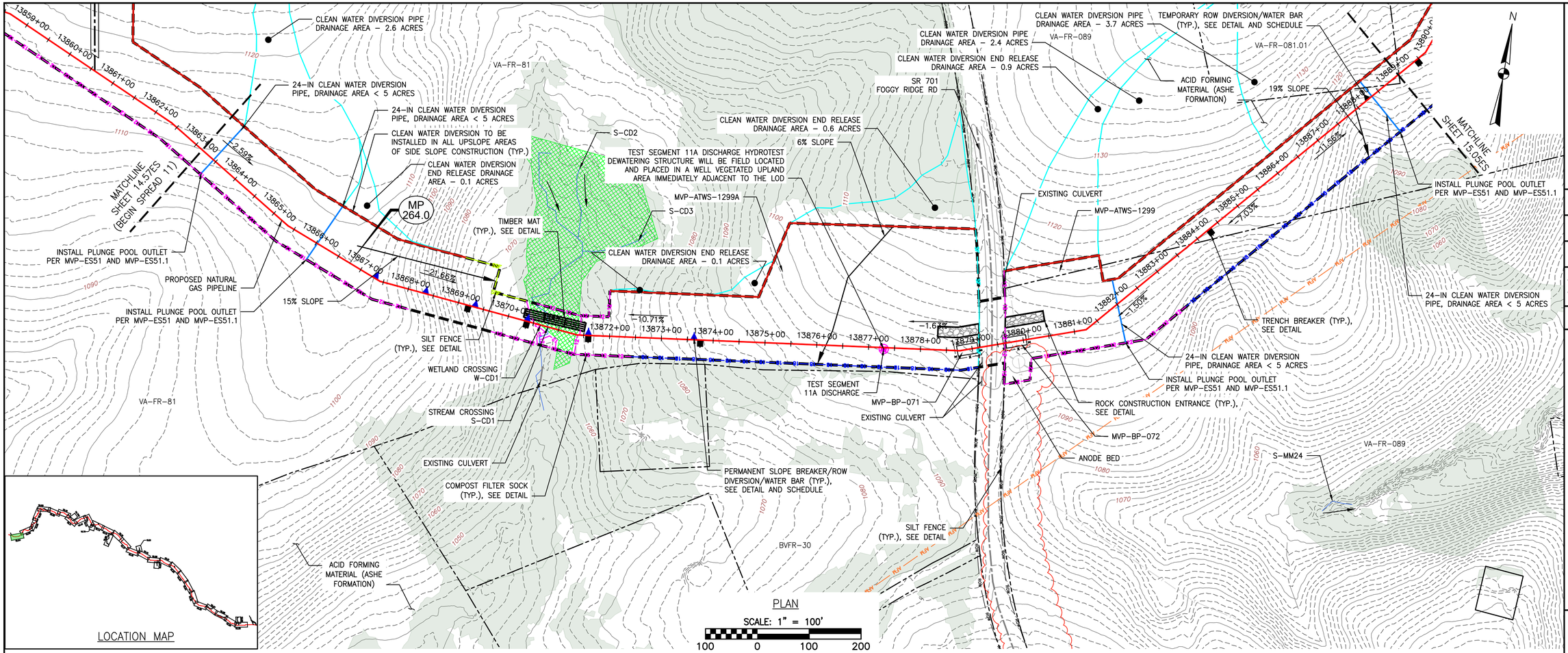
EROSION AND SEDIMENT CONTROL PLANS

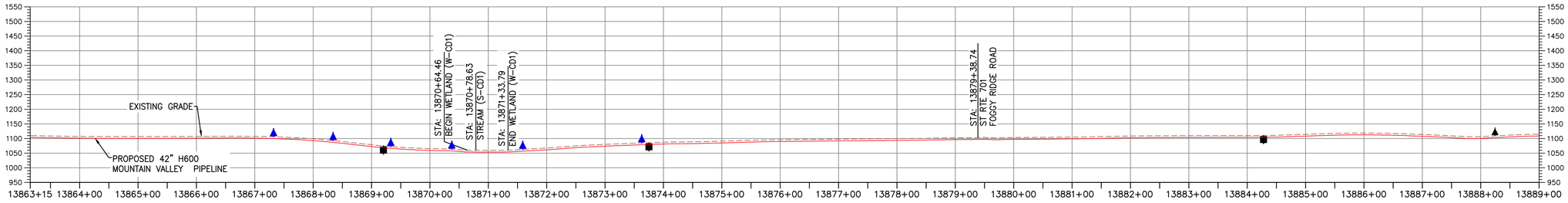
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.03ES OF 15.99ES

REVISION

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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
- 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)
- 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)

COMMONWEALTH OF VIRGINIA
10/18/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL ONLY APPLIES TO REVISIONS DATED 10-18-2023

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

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	10/18/23	JZ	KAL	DCW	PERMANENT LOD REDUCTION FOR CPDB-27
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

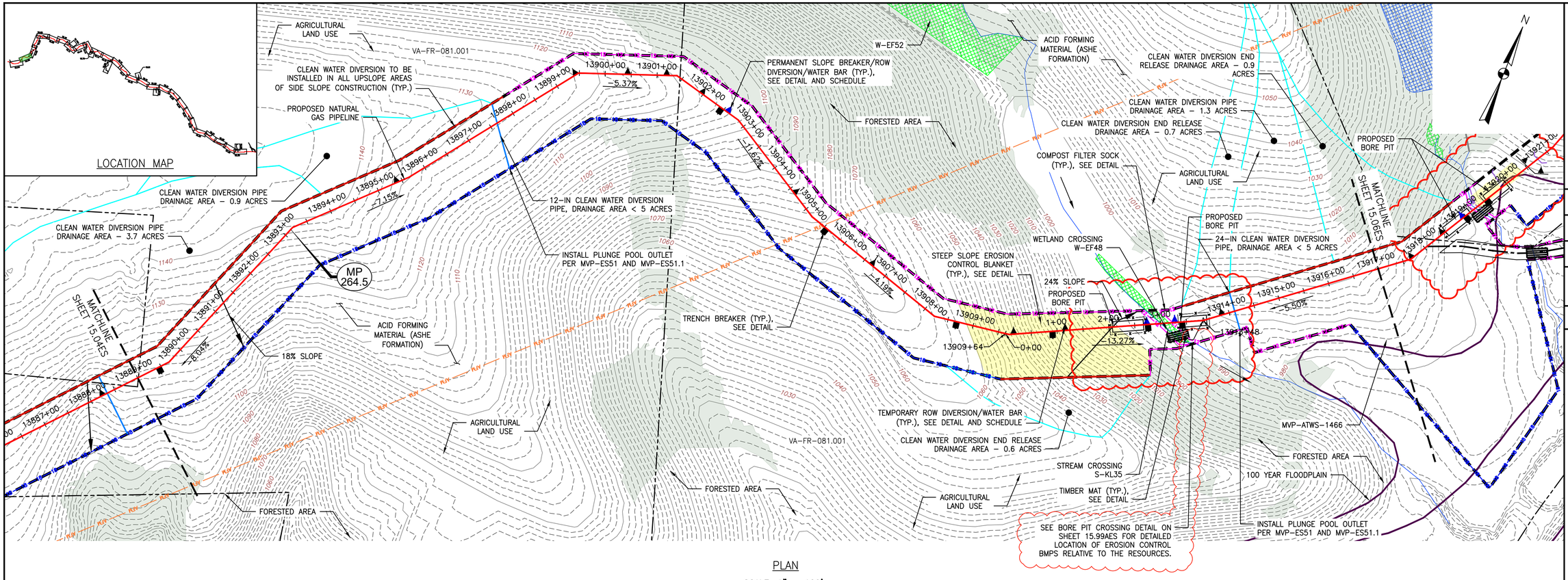
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	10/18/2023
SCALE:	AS SHOWN
SHT. NO.	15.04ES OF 15.99ES

REVISION

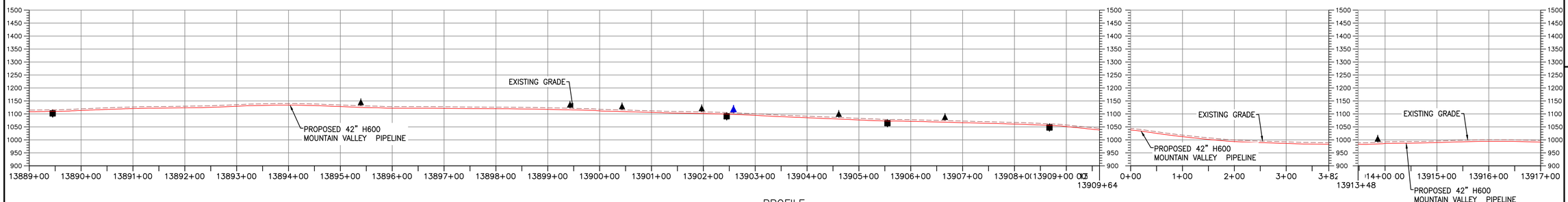
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
- 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)
- 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)

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

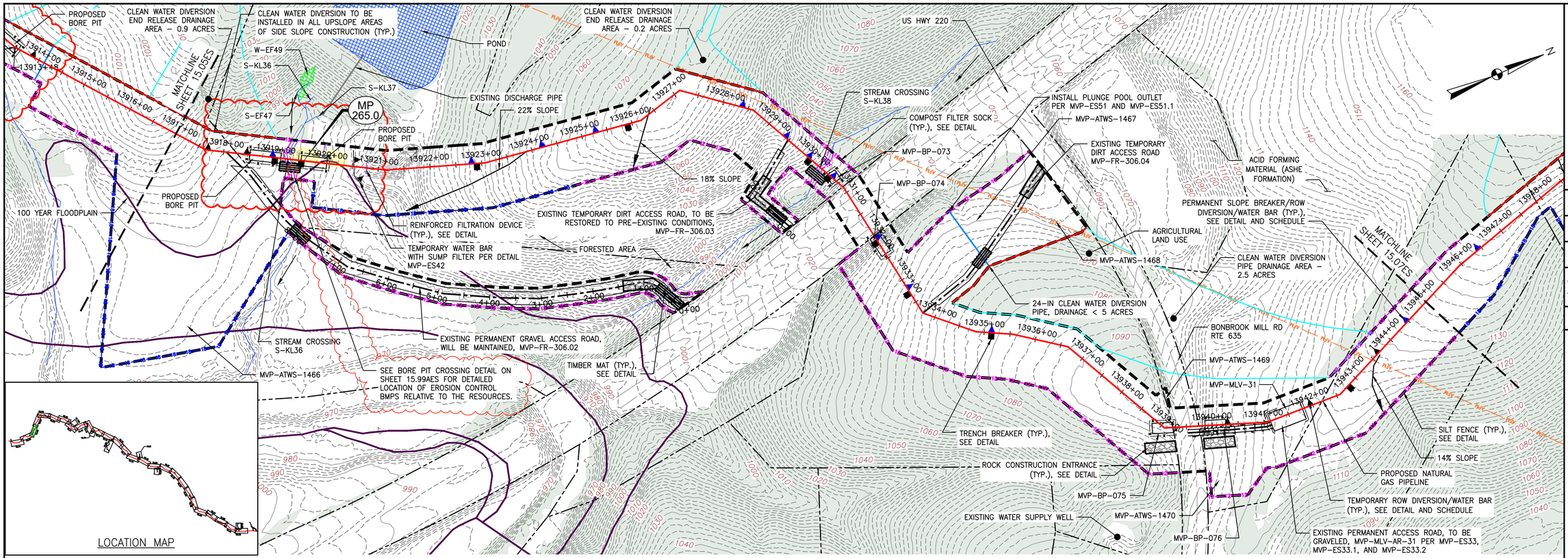
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PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	6
SHT. NO.	15.05ES OF 15.99ES

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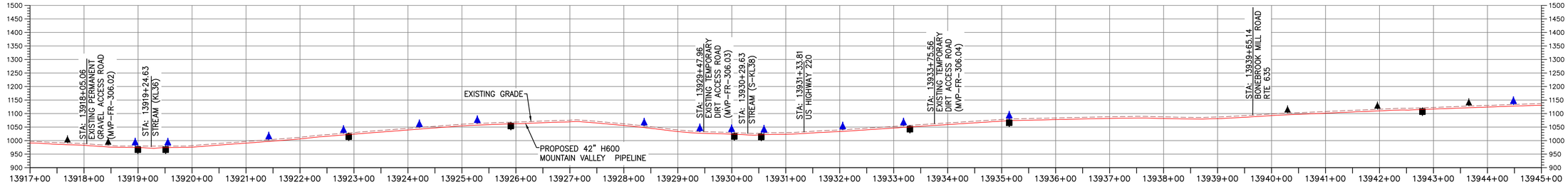


LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
- 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)
- TURF REINFORCEMENT MAT (TRM)
- 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)

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.06(S11).dwg PLOTTED ON: 4/4/2023 9:03 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
N/A	06/07/19	JK	RE	DW	PERMANENT EMERGENCY SPILLWAY CHANNEL AND OUTLET PROTECTION DESIGN
–	08/14/18	JJZ	RE	DW	ADDRESS VADEQ COMMENTS
–	12/08/20	JZ	RE	DW	REVERT BACK TO ORIGINAL LOD; PERMANENT DESIGN ADDRESSING POND DISCHARGE COMPLETED SEPARATELY PER VADEQ COMMENT
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DWC	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

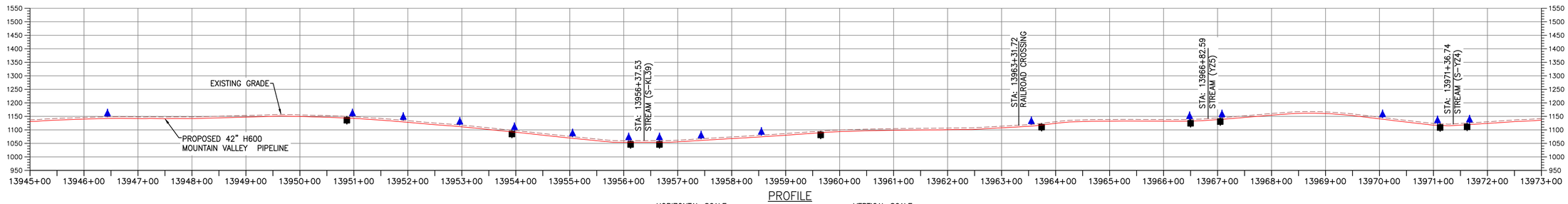
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2023

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.06ES OF 15.99ES

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.5 ACRES
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.8 ACRES
AGRICULTURAL LAND USE
AGRICULTURAL LAND USE
PROPOSED NATURAL GAS PIPELINE
CLEAN WATER DIVERSION TO BE INSTALLED IN ALL UPSLOPE AREAS OF SIDE SLOPE CONSTRUCTION (TYP.)
20% SLOPE
COMPOST FILTER SOCK (TYP.), SEE DETAIL
SUPER SILT FENCE (TYP.), SEE DETAIL
PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (TYP.), SEE DETAIL AND SCHEDULE
S-KL40
W-KL31
FORESTED AREA
MVP-ATWS-1471
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.1 ACRES
STREAM CROSSING S-KL39
12% SLOPE
W-KL32
TRENCH BREAKER (TYP.), SEE DETAIL
MVP-ATWS-1498
RAILROAD CROSSING
ACID FORMING MATERIAL (ASHE FORMATION)
STREAM CROSSING S-YZ5
ACID FORMING MATERIAL (ASHE FORMATION)
STREAM CROSSING S-YZ4
MP 266.0
MP 265.5
MATCHLINE SHEET 15.06ES
MATCHLINE SHEET 15.08ES
25% SLOPE
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.3 ACRES
EXISTING WATER SUPPLY WELL
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 2.6 ACRES
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.1 ACRES
TIMBER MAT (TYP.), SEE DETAIL
MVP-ATWS-1497
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.4 ACRES
FORESTED AREA
FORESTED AREA
ACID FORMING MATERIAL (ASHE FORMATION)

LOCATION MAP

PLAN
SCALE: 1" = 100'
100 0 100 200



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

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
- TEMPORARY DIVERSION DIKE (VESCH STD & SPEC 3.09)
- 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)
- TEMPORARY ROW DIVERSION/WATER BAR (SEE DETAIL MVP-17 AND VESCH STD & SPEC 3.11)
- SEDIMENT SUMP (SEE DETAIL MVP-ES42.1)
- 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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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	01/23/20	JK	RE	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
B	11/08/18	JJZ	RE	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
7	08/09/18	JJZ	RE	DW	FIELD MODIFICATION
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

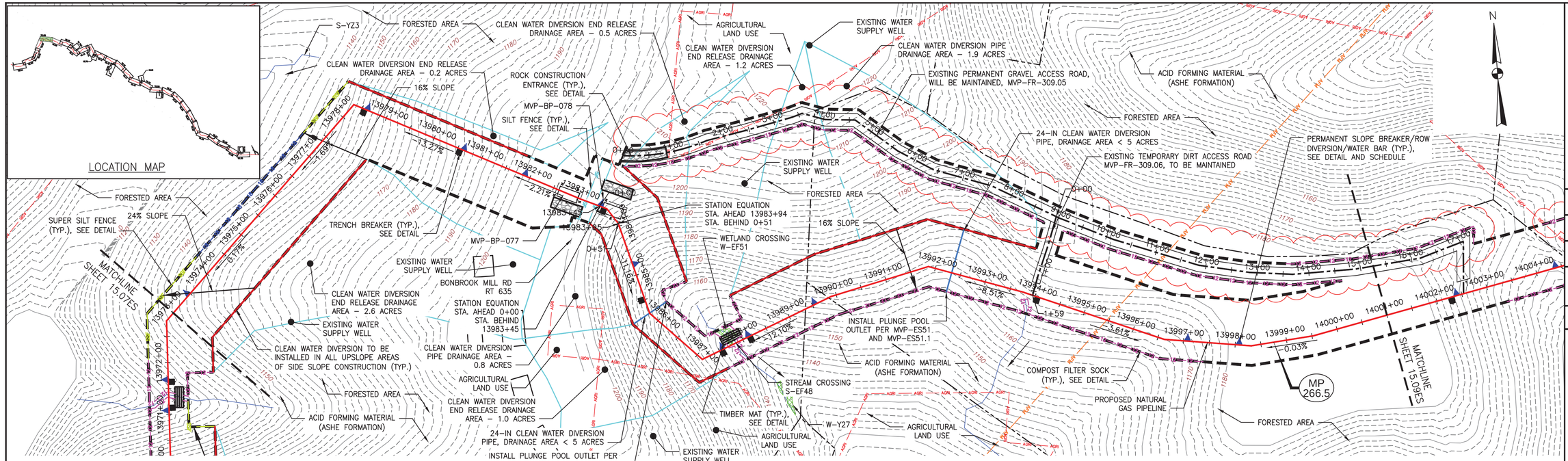
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PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	JK
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	01/23/2020
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.07ES OF 15.99ES

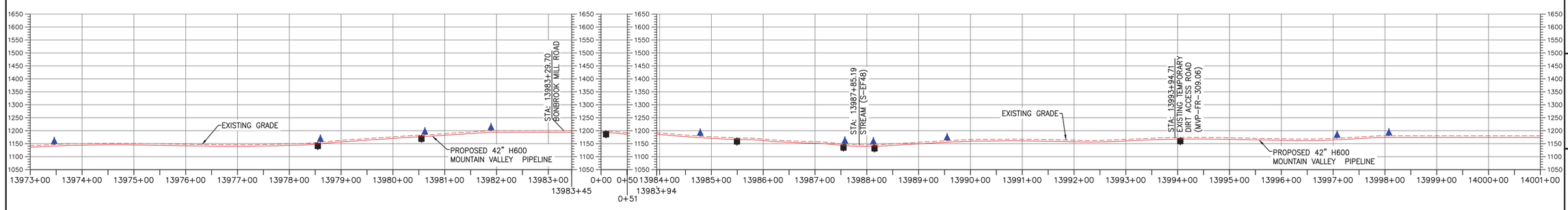
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- ANST — ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- AFM — AFM — ACID FORMING MATERIAL
- AGRI — AGRI — AGRICULTURAL LAND USE BOUNDARY
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SF — SF — PROPOSED SILT FENCE (SEE NOTE 5)
- SSF — SSF — PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
- RFD — RFD — PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
- OCSF — ORANGE CONSTRUCTION SAFETY FENCE
- 12 — 12 — 12 — 12 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- 18 — 18 — 18 — 18 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- 24 — 24 — 24 — 24 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
- TEMPORARY ROW DIVERSION/WATER BAR (VADEQ STD & SPEC 3.11)
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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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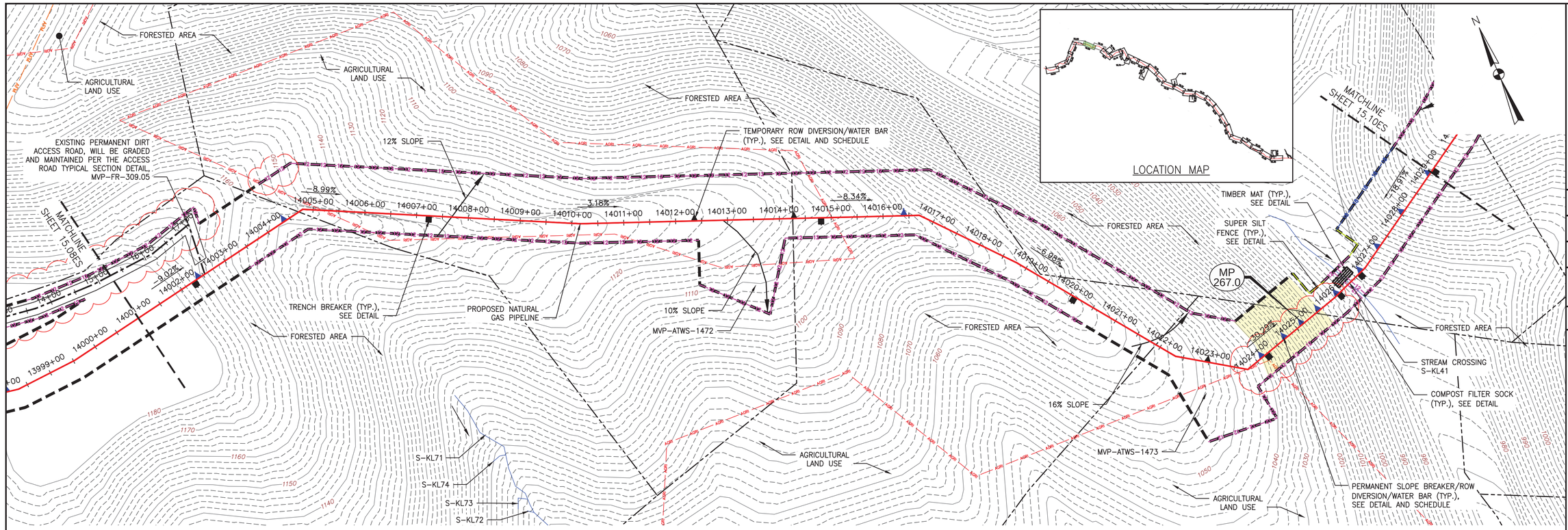
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.08ES OF 15.99ES

REVISION

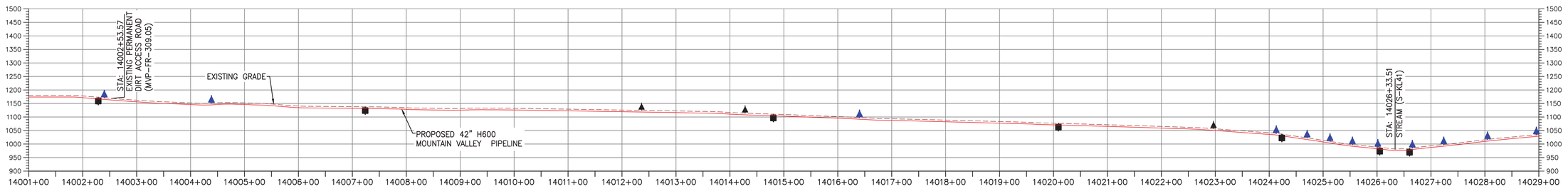
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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)
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- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- 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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5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

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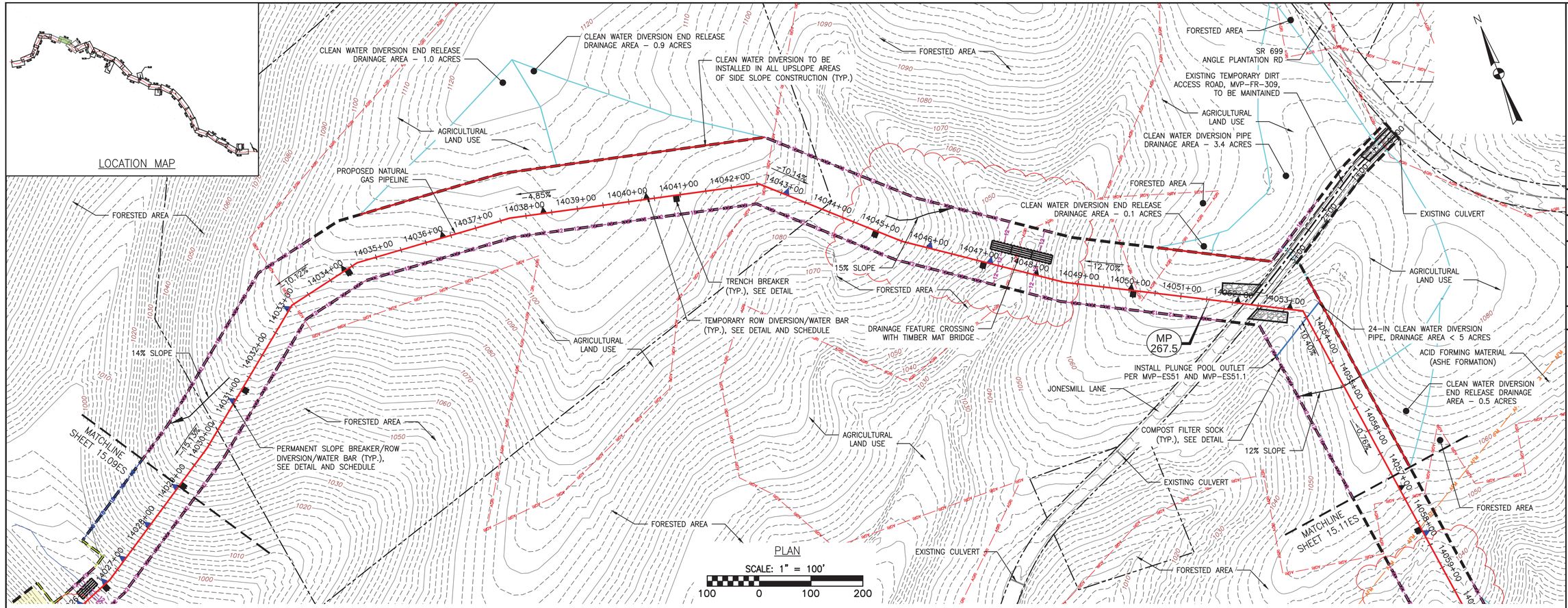
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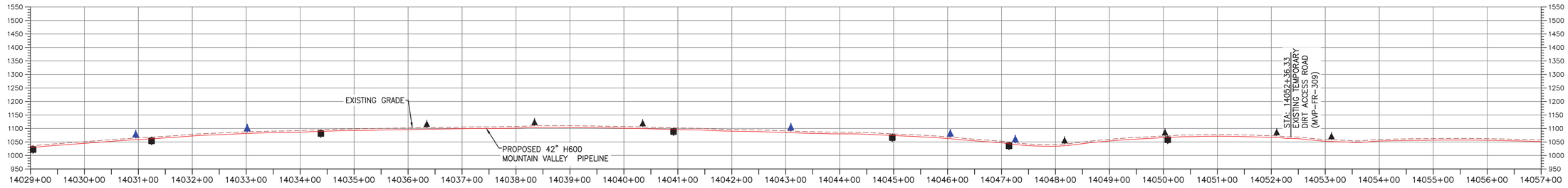
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.09ES OF 15.99ES

LOCATION MAP





PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100' 100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200' 200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
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- EXISTING COUNTY LINE
- POND
- WETLAND
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- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
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- 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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- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP–ES3, 3.1, 3.2)
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- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP–ES37)
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- 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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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 TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VWRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP–ES49.

REVISIONS:

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

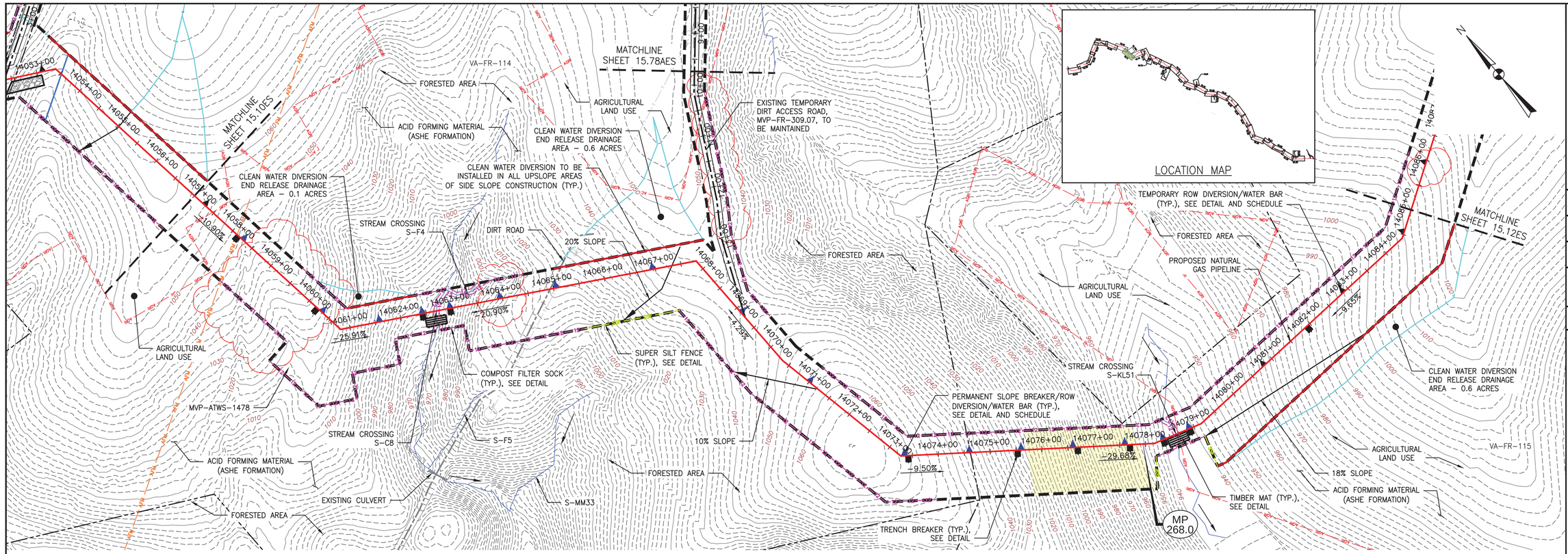
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.10ES OF 15.99ES

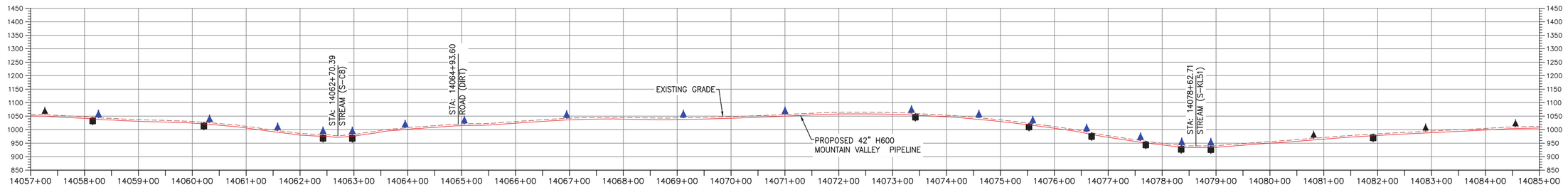
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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)
- 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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2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

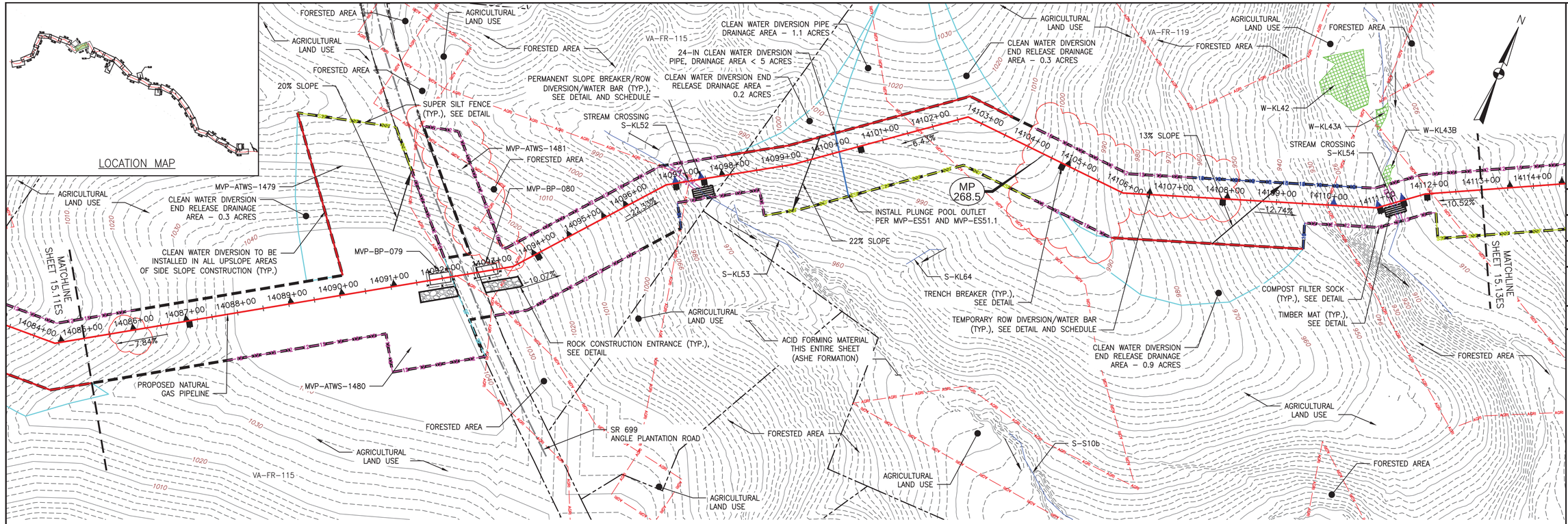
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.11ES OF 15.99ES

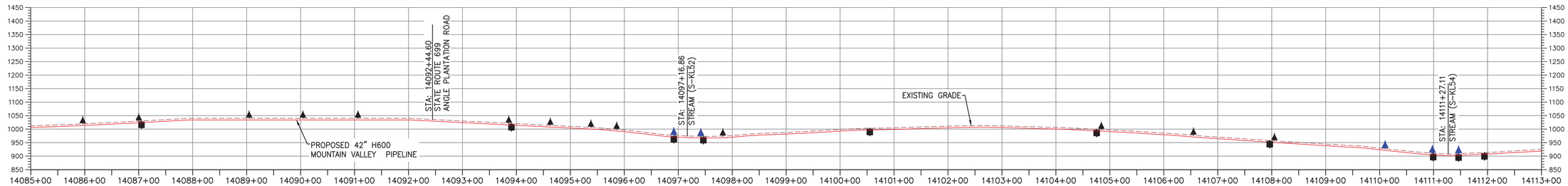
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
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- EXISTING STATE LINE
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- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
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3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

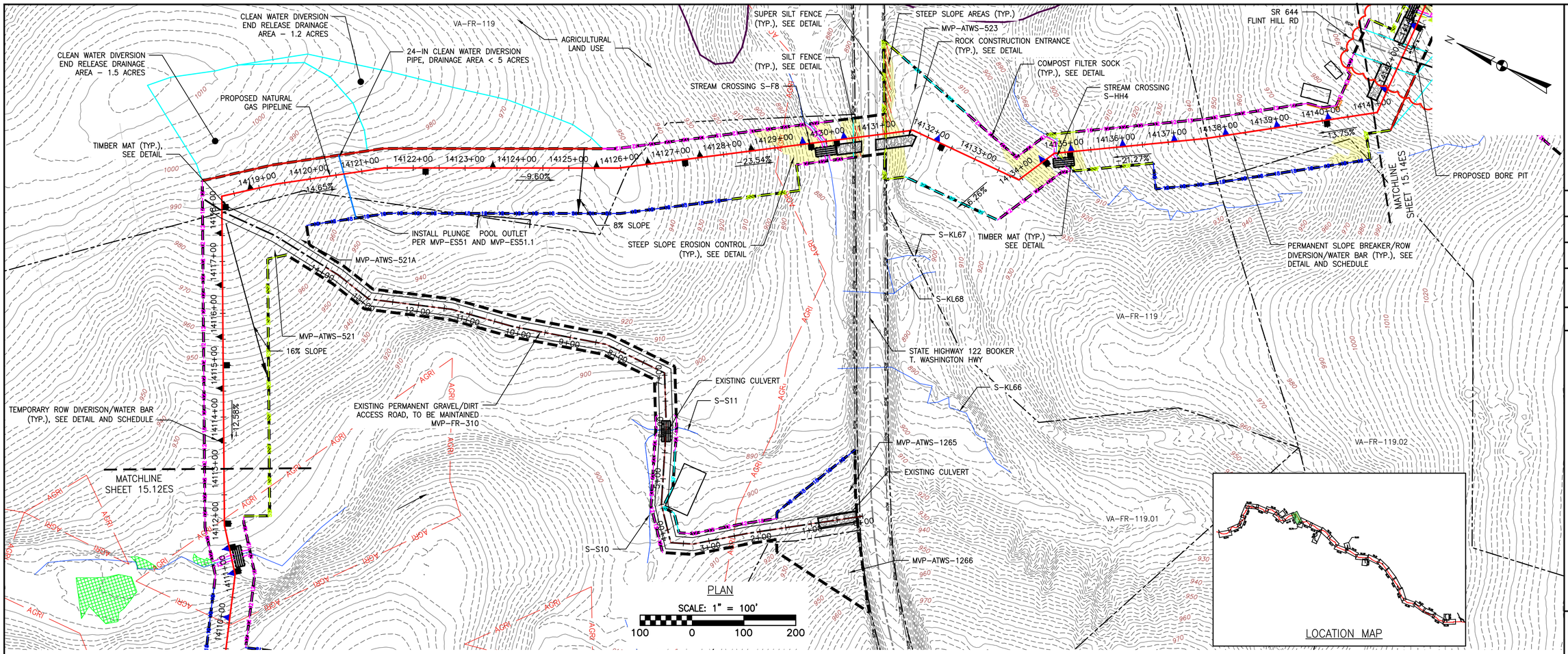
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

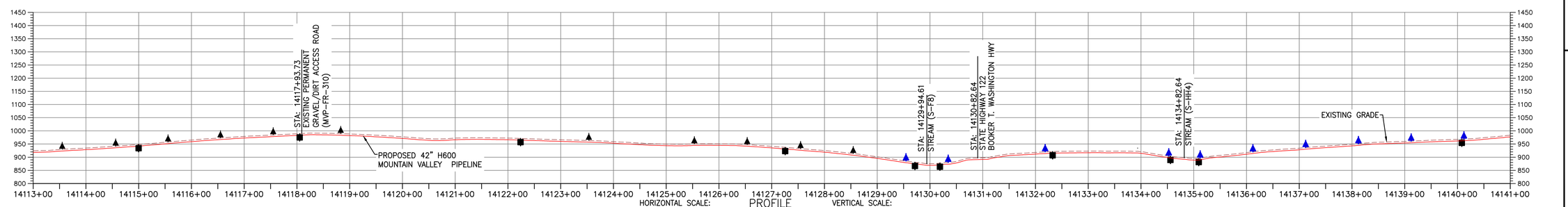
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.12ES OF 15.99ES

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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)
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- STREAM FLOW DIRECTION
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- PROPOSED TRENCH BREAKER (SEE DETAIL MVP–20)
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- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP–17, ES38, AND SCHEDULE)

COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
2/1/2023

THIS SEAL APPLIES ONLY TO REVISIONS DATED 02–01–23

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
2. FLEXTERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
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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.
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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	02/01/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

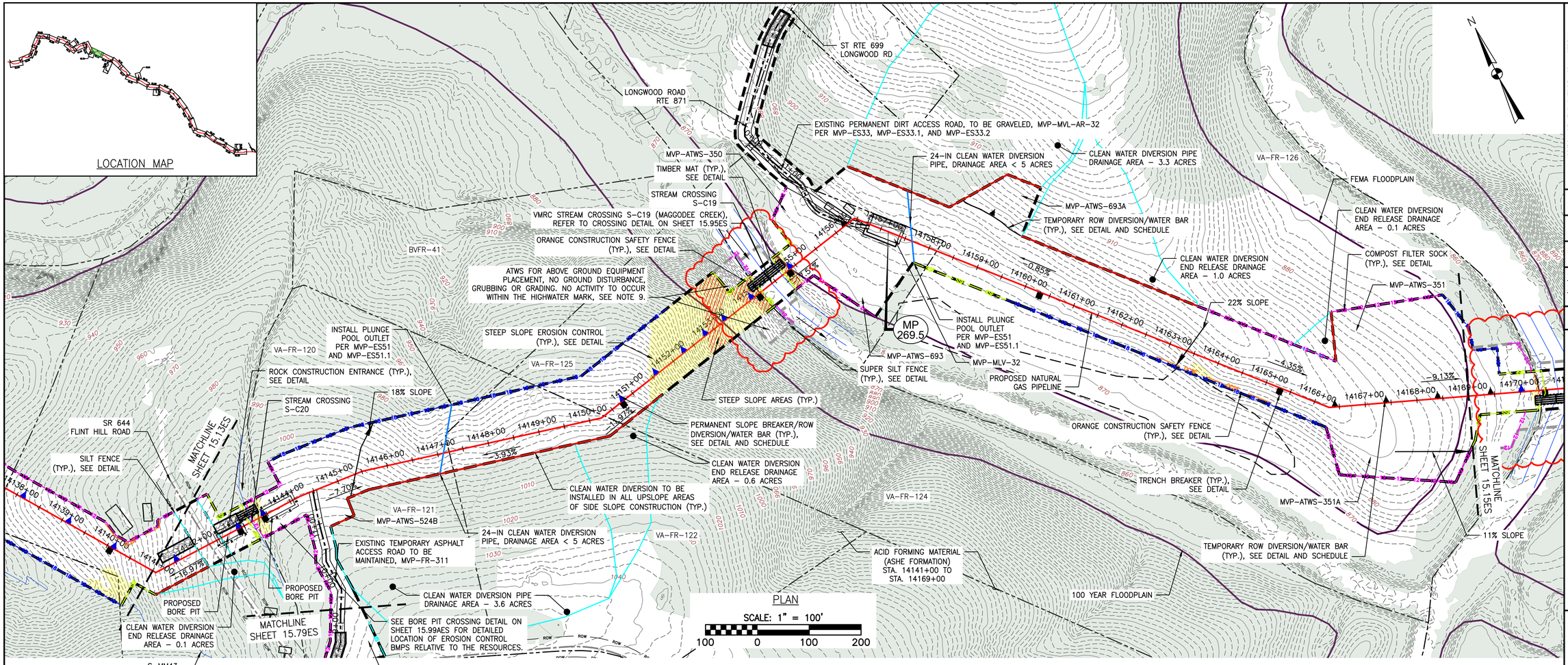
EROSION AND SEDIMENT CONTROL PLANS

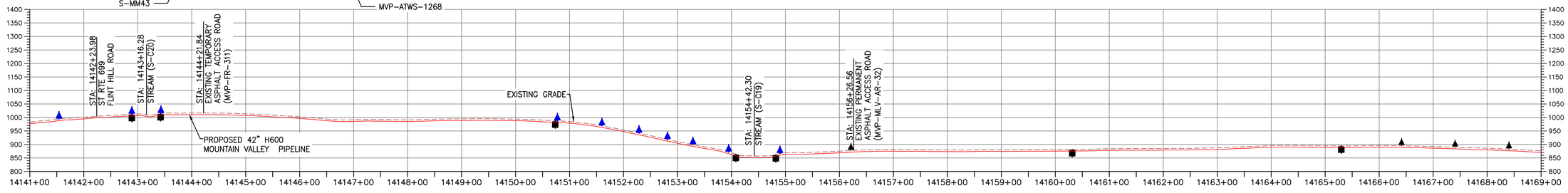
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2023

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	02/01/2023
SCALE:	AS SHOWN
SHT. NO.	15.13ES OF 15.99ES

REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\BORE MODS\7157ES15.13(S11).dwg PLOTTED ON: 1/31/2023 12:51 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'
100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'
200 0 200 400

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 WITHIN PROJECT LIMITS NOT TO BE DISTURBED
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)

COMMONWEALTH OF VIRGINIA
10/30/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 10-30-2023

NOTES:

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REVISIONS:

NO.:	DATE:	DESCRIPTION:	APPD.:	CHKD.:	DWN.:
7	04/30/18	ADDRESS VADEQ COMMENTS	DW	RE	KAL
–	10/29/20	FIELD MODIFICATION - ADDITIONAL WORKSPACES FOR OPEN CUT CROSSINGS	DW	RE	JJZ
–	01/31/22	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE	TD	RE	JJZ
–	11/30/22	ADDRESS VADEQ COMMENTS	TD	DCW	JJZ
–	04/07/23	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD	DCW	TD	JJZ
–	10/30/23	ADDITION OF ATWS OUTSIDE LOD IN STREAM	DCW	IHH	JJZ

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

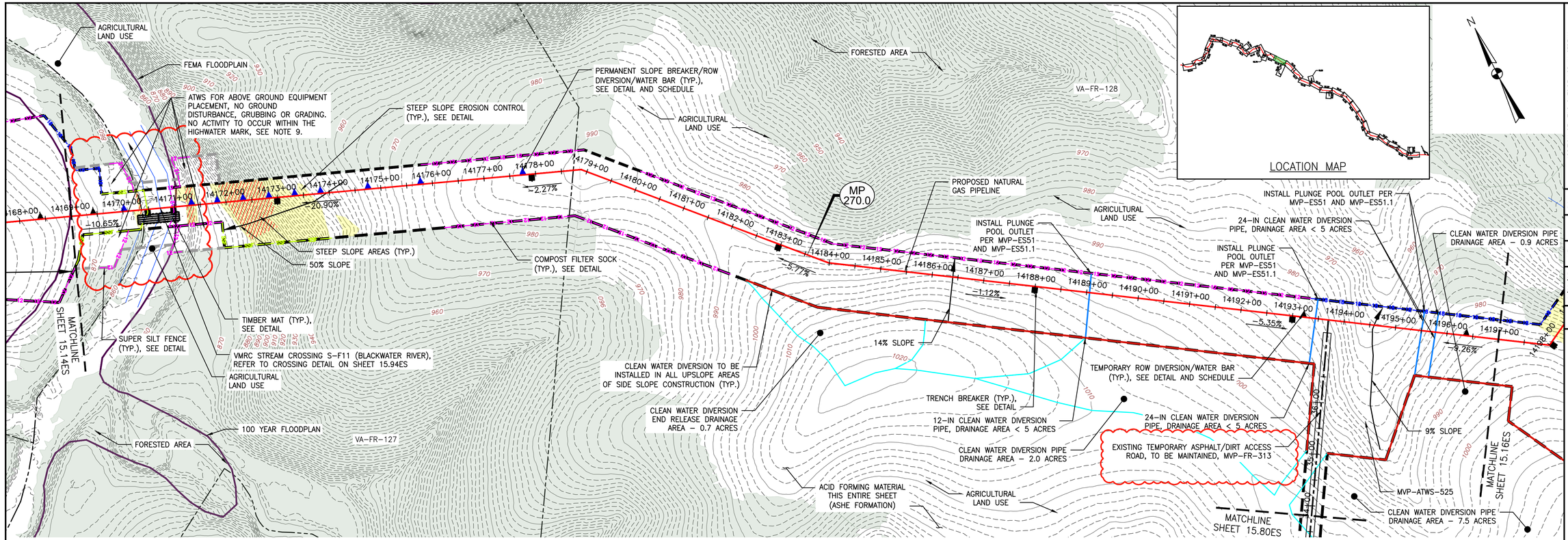
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

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

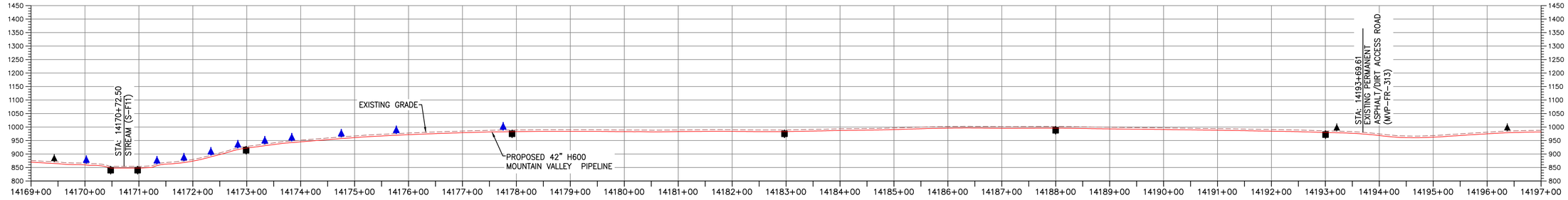
DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	10/30/23
SCALE:	AS SHOWN
REVISION	7
SHT. NO.	15.14ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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 WITHIN PROJECT LIMITS NOT TO BE DISTURBED
- 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)
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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)

COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
10/30/23
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 10-30-23

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	10/30/23	JJZ	IHH	DCW	ADDITION OF ATWS OUTSIDE LOD IN STREAM
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	11/30/22	JJZ	DCW	TD	ADDRESS VADEQ COMMENTS
–	01/31/22	JJZ	RE	TD	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	10/29/20	JJZ	RE	DW	FIELD MODIFICATION - ADDITIONAL WORKSPACES FOR OPEN CUT CROSSINGS
7	04/30/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

TETRA TECH
complex world | CLEAR SOLUTIONS™
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PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
10/30/23
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	10/30/23
SCALE:	AS SHOWN
SHT. NO.	15.15ES OF 15.99ES

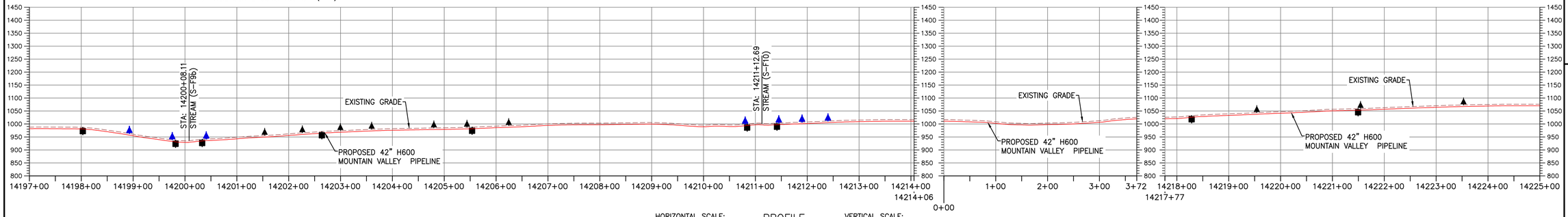
REVISION

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LOCATION MAP

AGRICULTURAL LAND USE
VA-FR-129
FORESTED AREA
CLEAN WATER DIVERSION PIPE DRAINAGE AREA – 2.0 ACRES
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 1.5 ACRES
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.8 ACRES
STREAM CROSSING S-F10
24-IN CLEAN WATER DIVERSION PIPE, DRAINAGE AREA < 5 ACRES
PROPOSED BORE PIT
PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (TYP.), SEE DETAIL AND SCHEDULE
STREAM CROSSING S-F9a
MP 270.5
℄ STREAM (S-F10)
℄ STREAM (S-F9a)
PROPOSED NATURAL GAS PIPELINE
CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 4.2 ACRES
TEMPORARY ROW DIVERSION/WATER BAR (TYP.), SEE DETAIL AND SCHEDULE
FORESTED AREA
STREAM CROSSING S-F9b
AGRICULTURAL LAND USE (S-F9b)
15% SLOPE
COMPOST FILTER SOCK (TYP.), SEE DETAIL
INSTALL PLUNGE POOL OUTLET PER MVP-ES51 AND MVP-ES51.1
SEE BORE PIT CROSSING DETAIL ON SHEET 15.99AES FOR DETAILED LOCATION OF EROSION CONTROL BMPS RELATIVE TO THE RESOURCES.
18% SLOPE
EXISTING CULVERT
SUPER SILT FENCE (TYP.), SEE DETAIL
TIMBER MAT (TYP.), SEE DETAIL
SEE BORE PIT CROSSING DETAIL ON SHEET 15.99BES FOR DETAILED LOCATION OF EROSION CONTROL BMPS RELATIVE TO THE RESOURCES.
TRENCH BREAKER (TYP.), SEE DETAIL
10% SLOPE
VA-FR-128
VA-FR-131
VA-FR-130
ACID FORMING MATERIAL THIS ENTIRE SHEET (ASHE FORMATION)
AGRICULTURAL LAND USE
FORESTED AREA
MVP-ATWS-352
CLEAN WATER DIVERSION PIPE DRAINAGE AREA – 7.5 ACRES
CLEAN WATER DIVERSION TO BE INSTALLED IN ALL UPSLOPE AREAS OF SIDE SLOPE CONSTRUCTION (TYP.)
MATCHLINE SHEET 15.15ES
MATCHLINE SHEET 15.17ES

PLAN
SCALE: 1" = 100'
100 0 100 200



PROFILE
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100 0 100 200
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200 0 200 400

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COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
4/7/23
THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

TETRA TECH
complex world | CLEAR SOLUTIONS™
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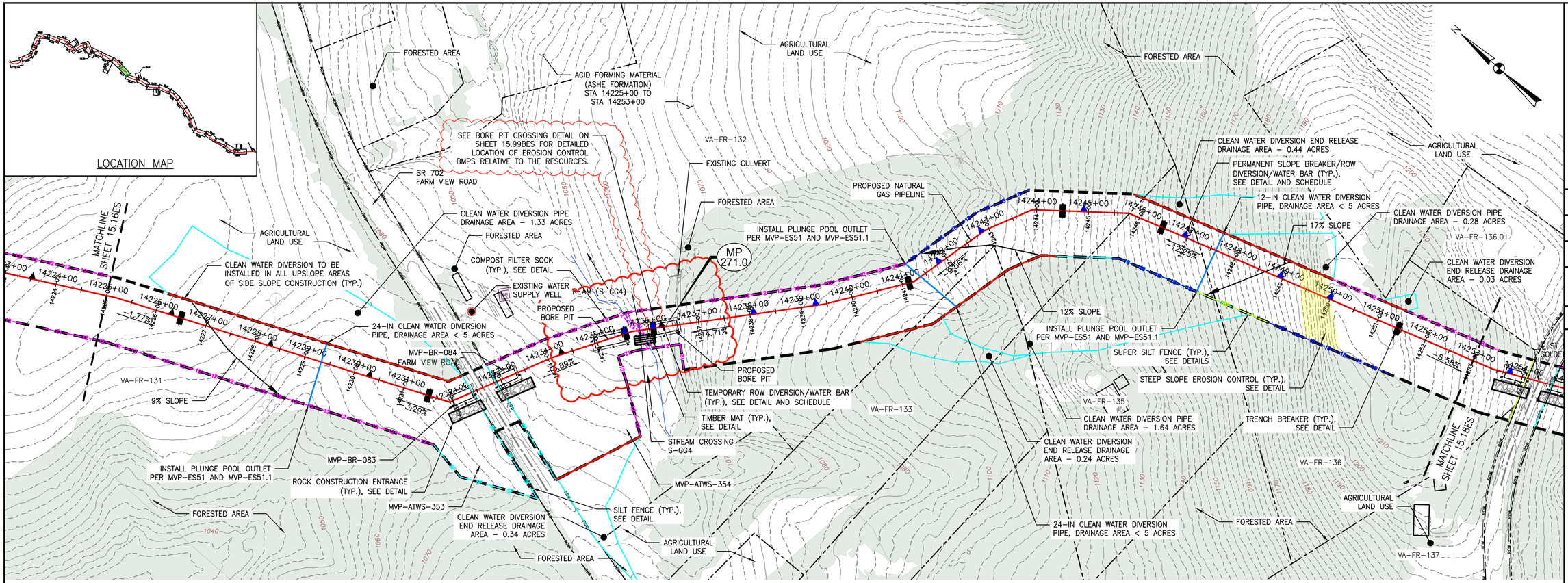
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2023

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.16ES OF 15.99ES

REVISION

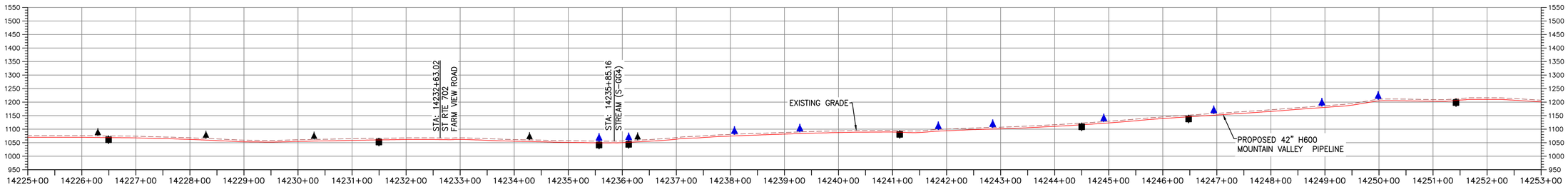
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
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- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

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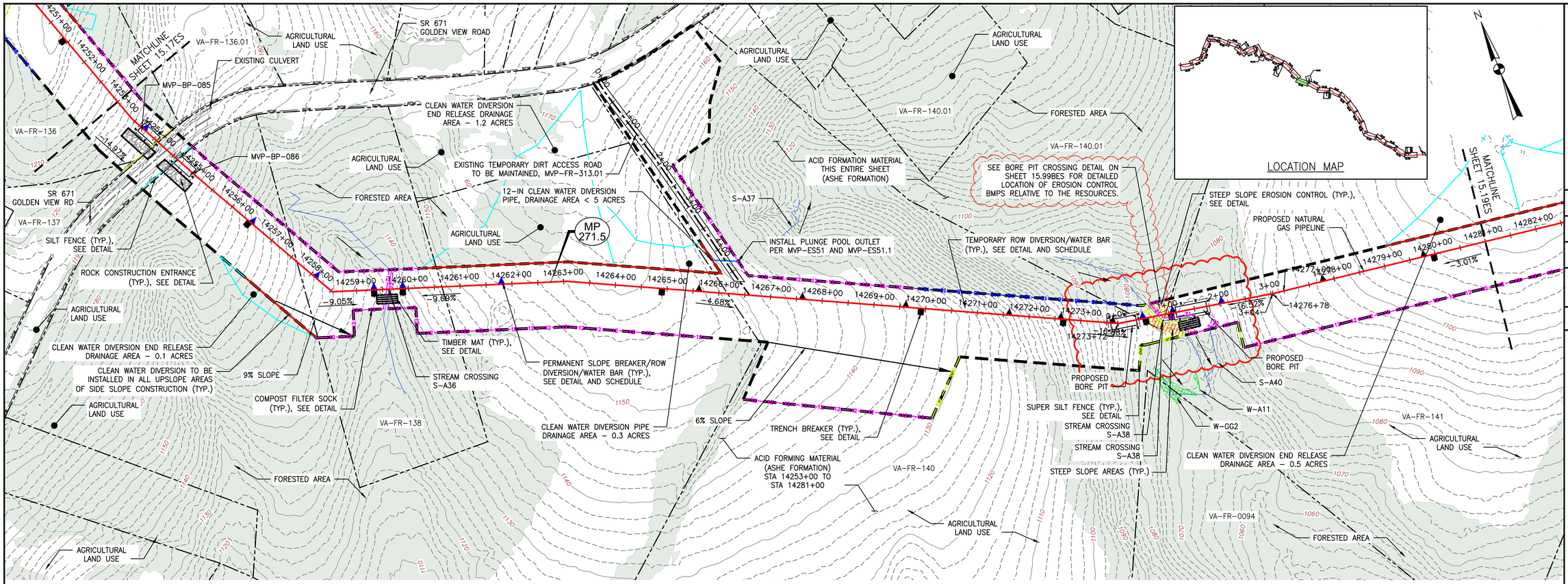
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EROSION AND SEDIMENT CONTROL PLANS

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4/12/2023

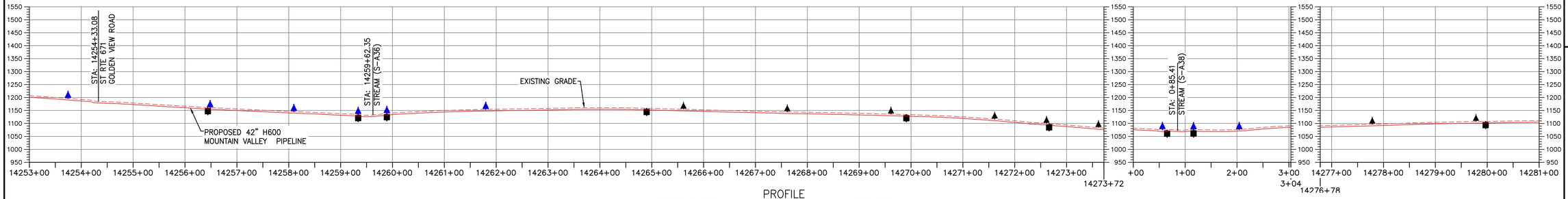
DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.17ES OF 15.99ES

REVISION



PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

LEGEND

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- STREAM
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIES ONLY TO REVISIONS DATED 04-07-2023

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–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
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6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

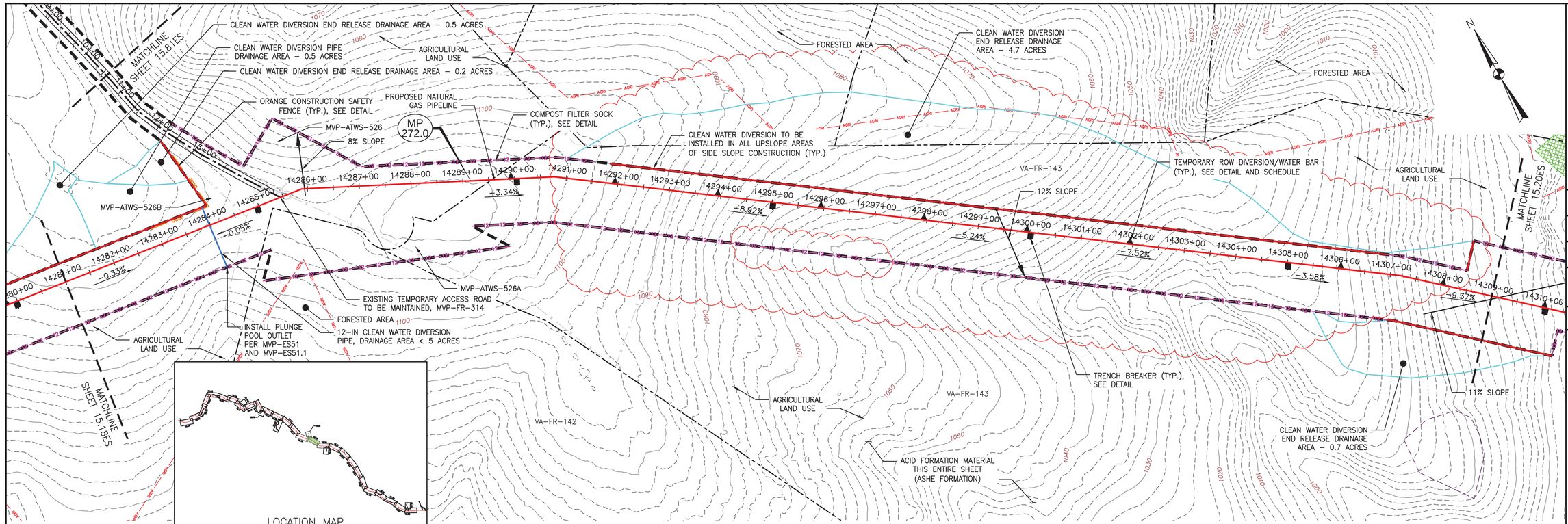
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
12/12/2023

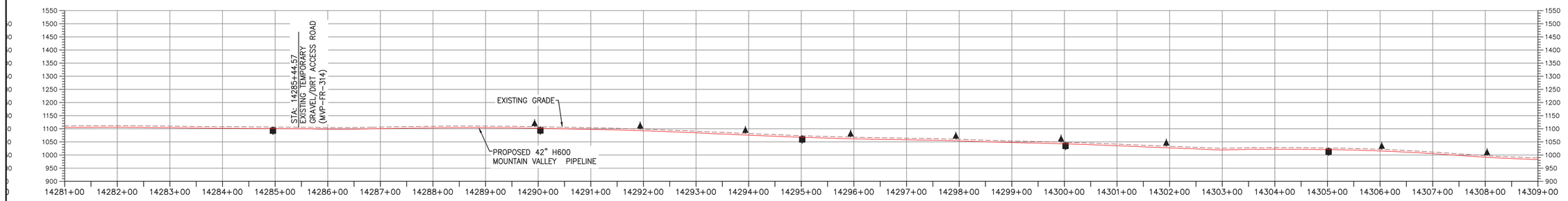
DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	6
SHT. NO.	15.18ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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)
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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)

NOTES:

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

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

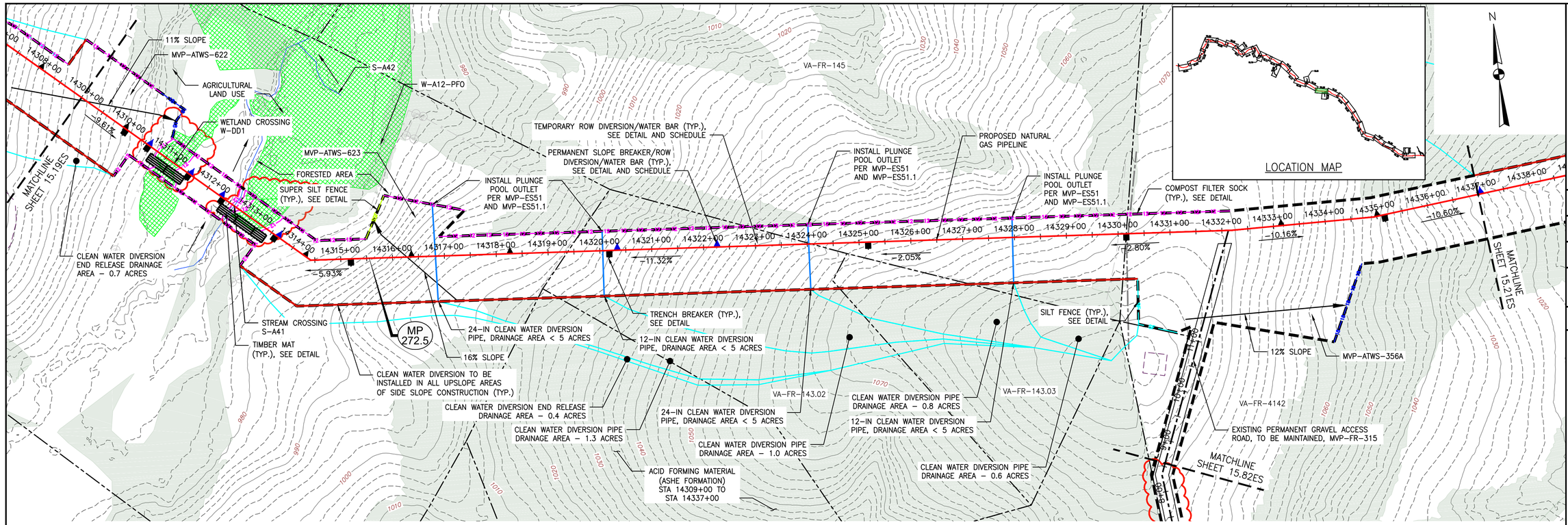
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN

REVISION

SHT. NO. 15.19ES OF 15.99ES

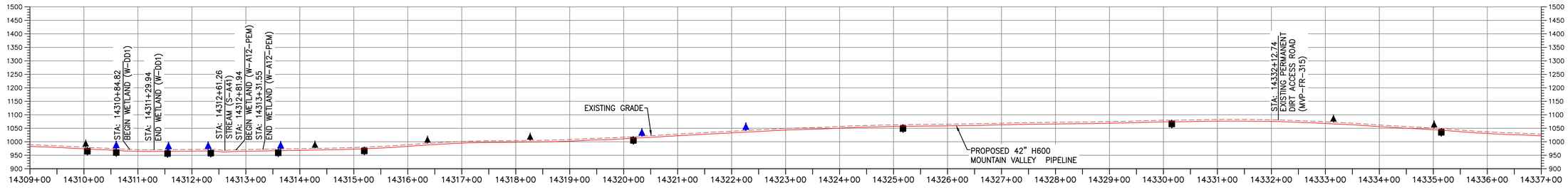
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

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
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- 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 (SEE DETAIL MVP-17)
- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAIL MVP-17)

NOTES:

1. TOPSOIL SEGREGATION WILL BE PERFORMED IN ALL IMMEDIATE CONSTRUCTION AREAS OF THE PROJECT IN ACCORDANCE WITH DETAILS MVP-ES46.1 THROUGH MVP-ES46.3.
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. IMPROVEMENTS TO PERMANENT AND TEMPORARY ACCESS ROADS WILL BE PERFORMED PER THE SITE SPECIFIC ACCESS ROAD DETAILS.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE.

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	06/24/20	JK	RE	DW	CHANGES TO AQUATIC RESOURCES DELINEATIONS
7	04/30/18	JK	RE	DW	FIELD MODIFICATION
6	03/16/18	JK	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC

2200 ENERGY DRIVE

CANONSBURG, PA 15317

TETRA TECH

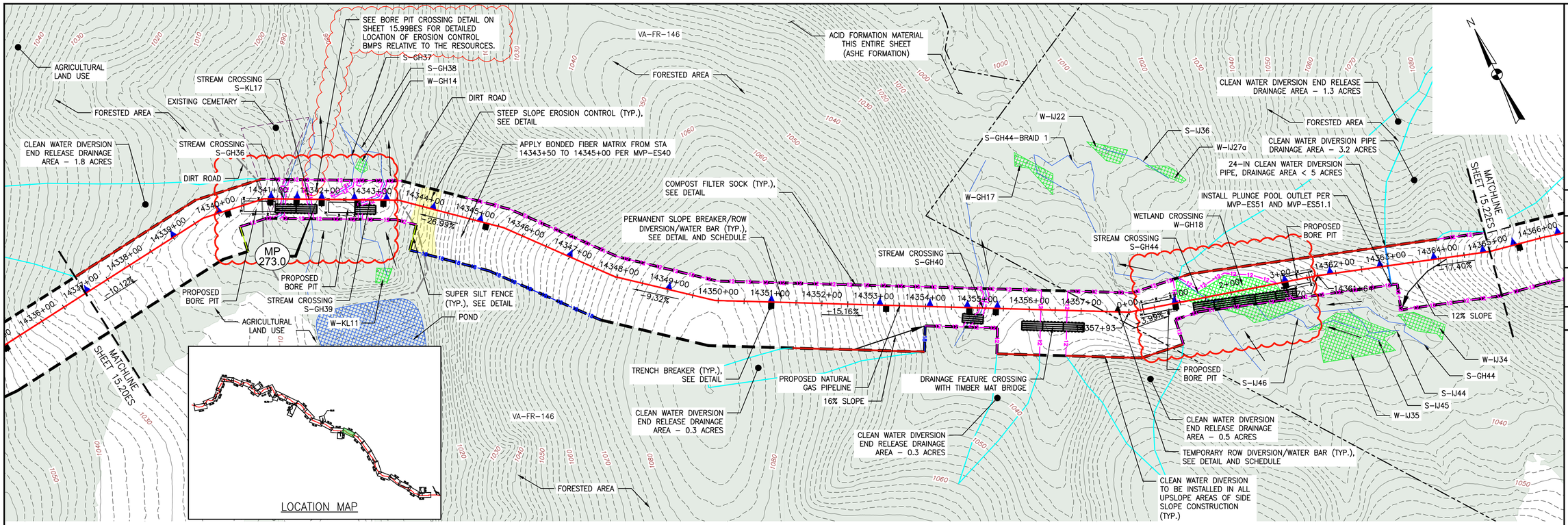
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

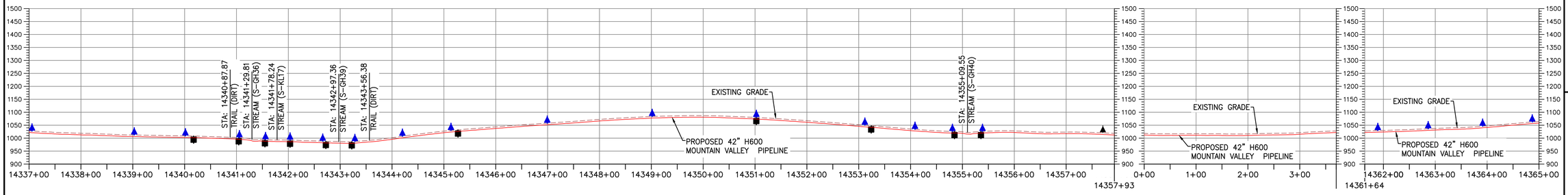
DRAWN BY:	JK
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	06/24/2020
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.20ES OF 14.81ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
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- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

NOTES:

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

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

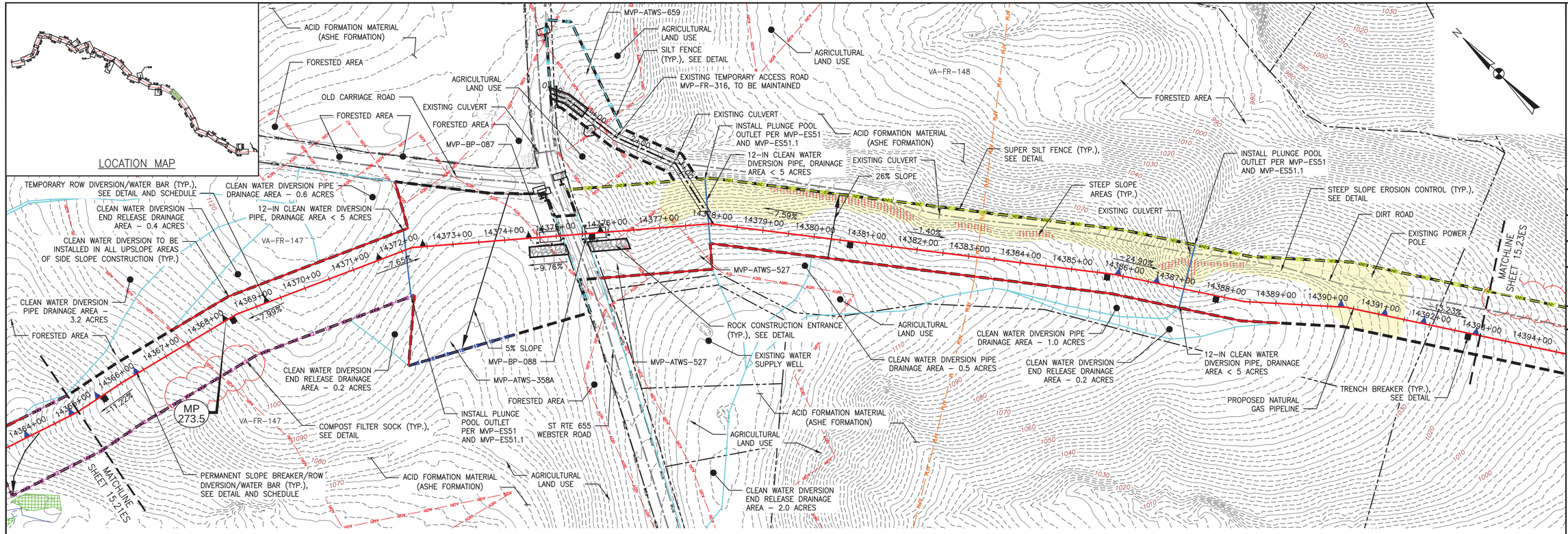
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2023

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/23
SCALE:	AS SHOWN
SHT. NO.	15.21ES OF 15.99ES

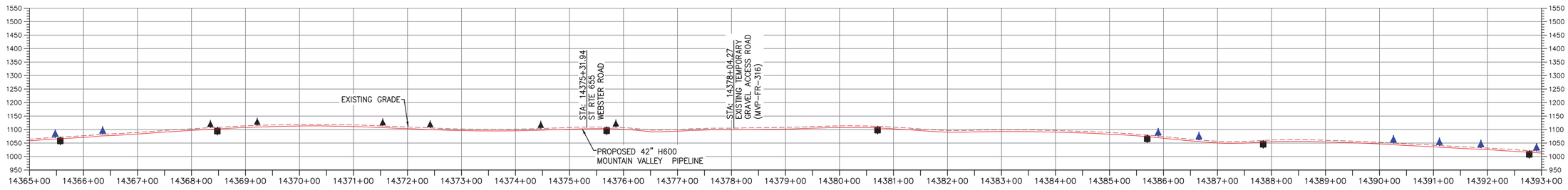
REVISION



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
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- APPALACHIAN NATIONAL SCENIC TRAIL
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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE

SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

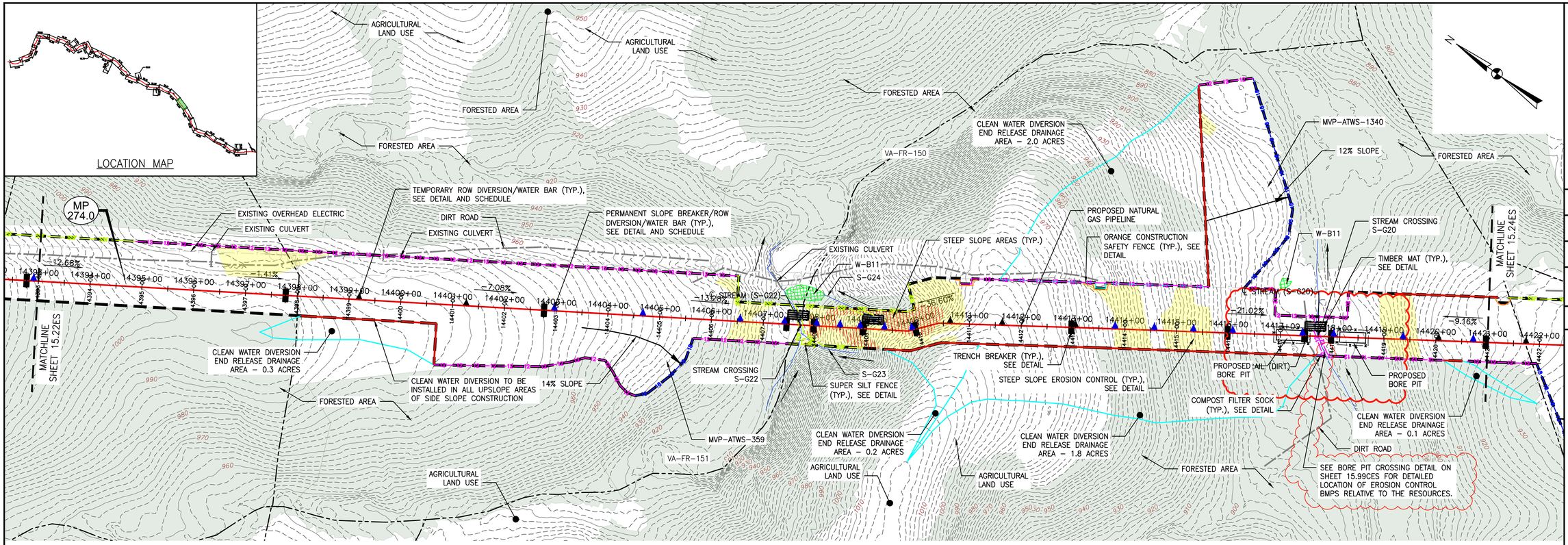
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.22ES OF 15.99ES

REVISION

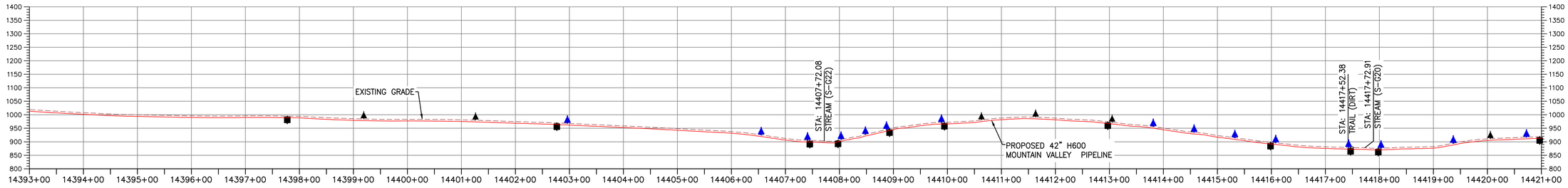
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
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- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP–ES37)
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COMMONWEALTH OF VIRGINIA 4/7/23 DANIEL C. WITT Lic. No. 65093 PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04–07–2023

NOTES:

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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:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

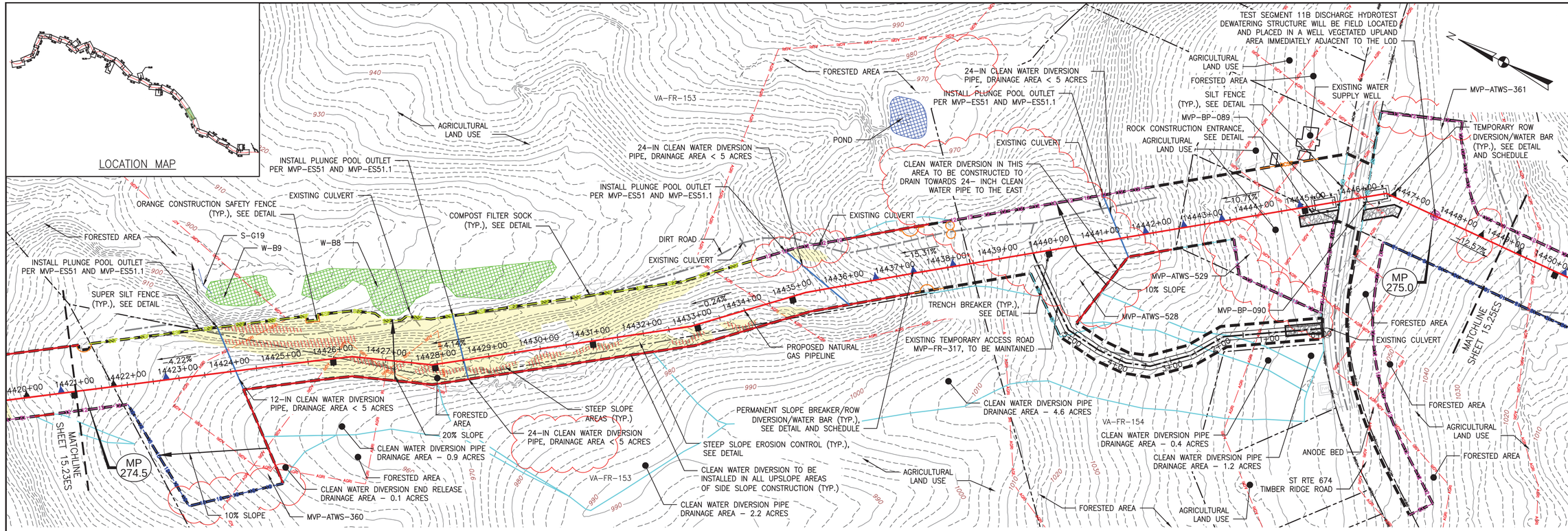
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

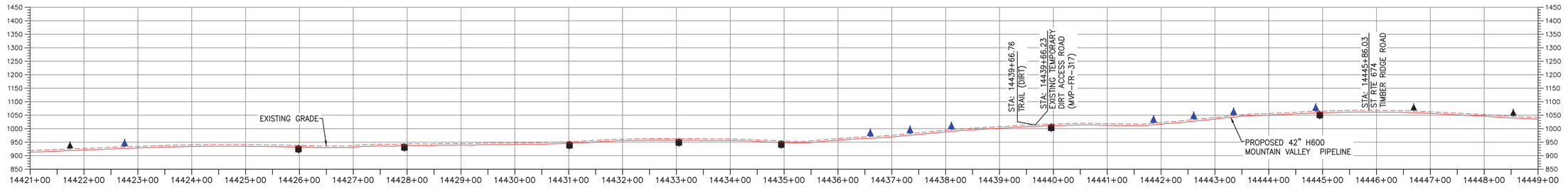
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA DAVID J. WALLNER Lic. No. 57593 PROFESSIONAL ENGINEER 05/12/2021

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	
SHT. NO.	15.23ES OF 15.99ES

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LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
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5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

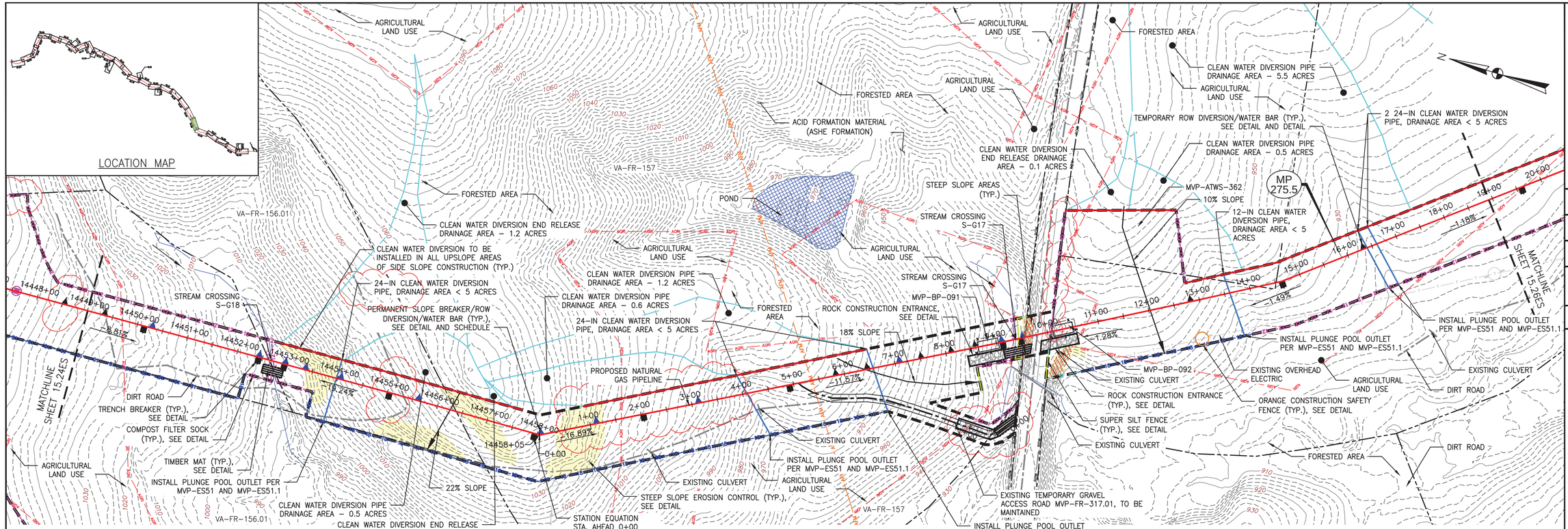
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.24ES OF 15.99ES

REVISION

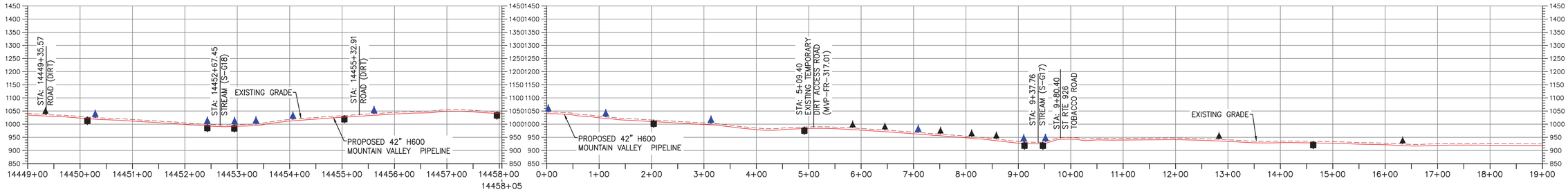
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LOCATION MAP



PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

LEGEND

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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.25(S11).dwg PLOTTED ON: 3/13/2018 9:15 AM PLOTTED BY: Rickabaugh, Greg PLOT FILE: ENVIRONMENTAL_COLOR.ctb

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4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

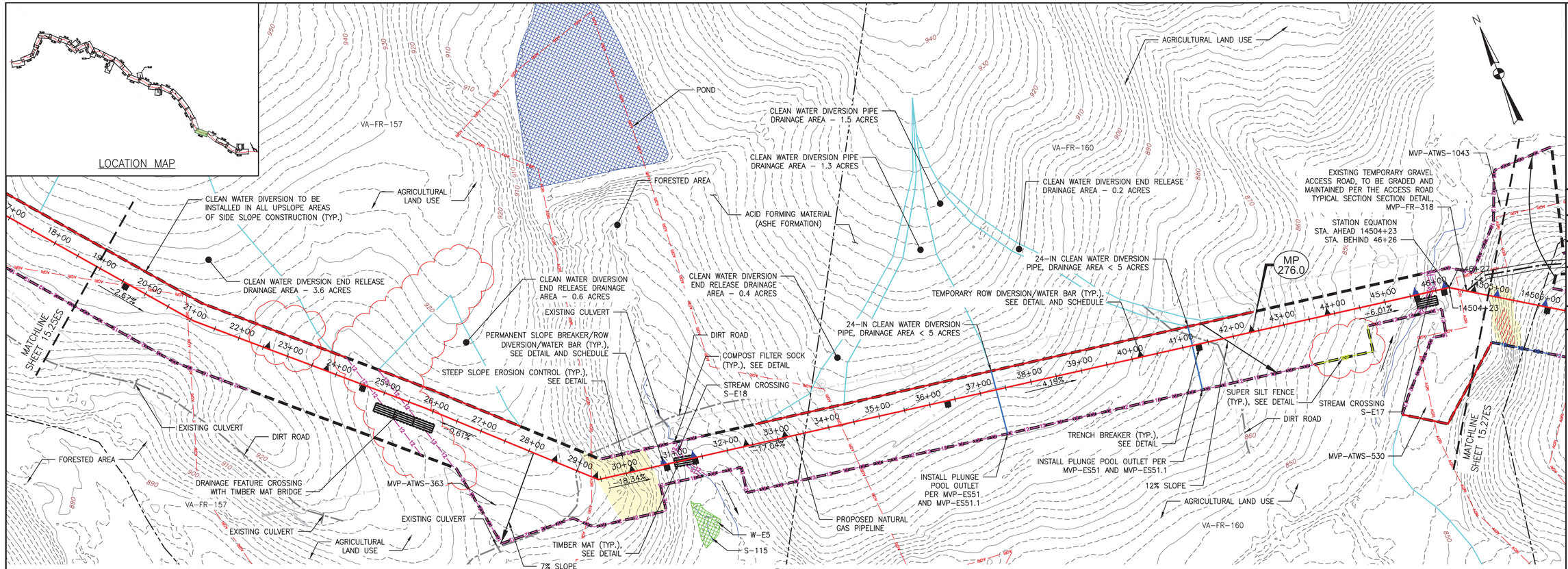
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.25ES OF 15.99ES

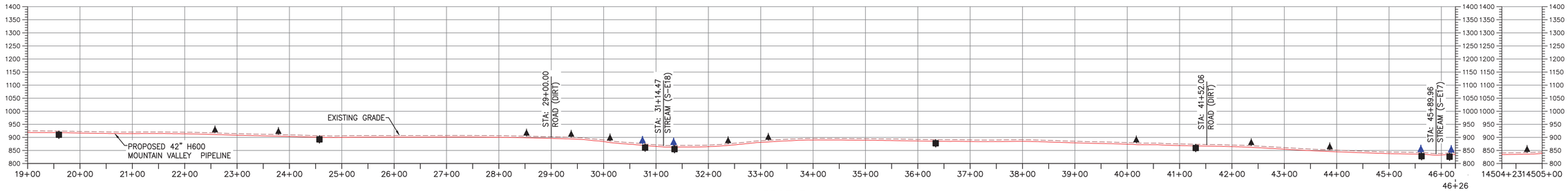
REVISION

LOCATION MAP



PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

LEGEND

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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.26(S11).dwg PLOTTED ON: 3/2/2018 5:59 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

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4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

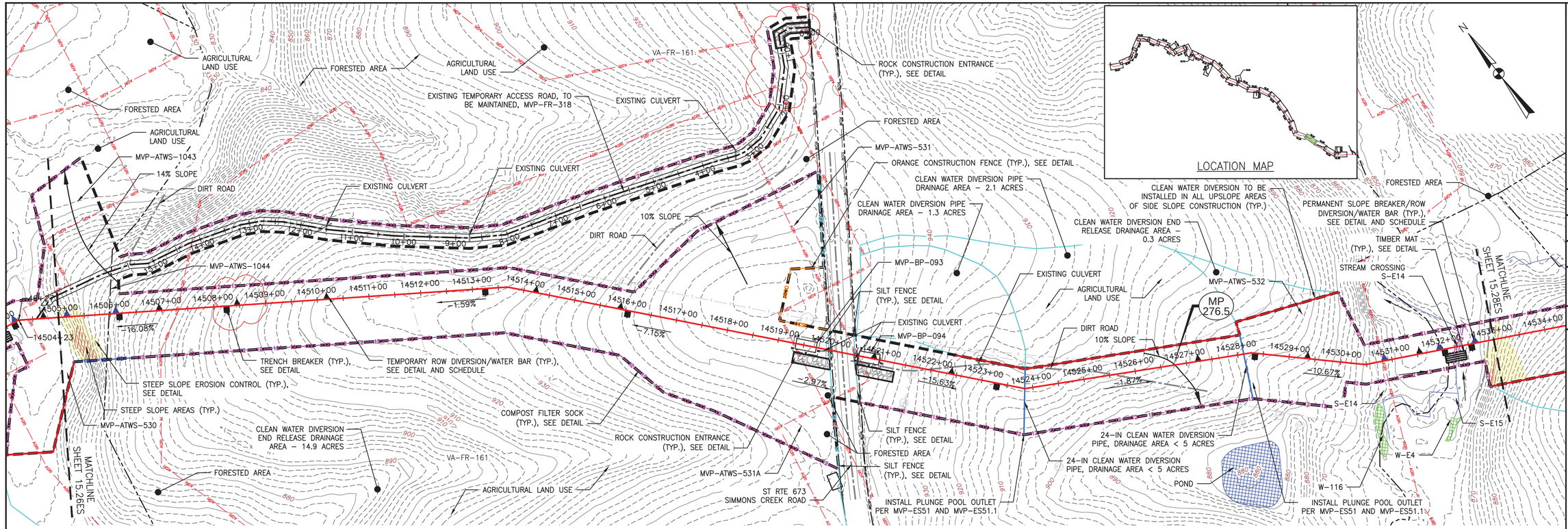
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EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5

SHT. NO. 15.26ES OF 15.99ES

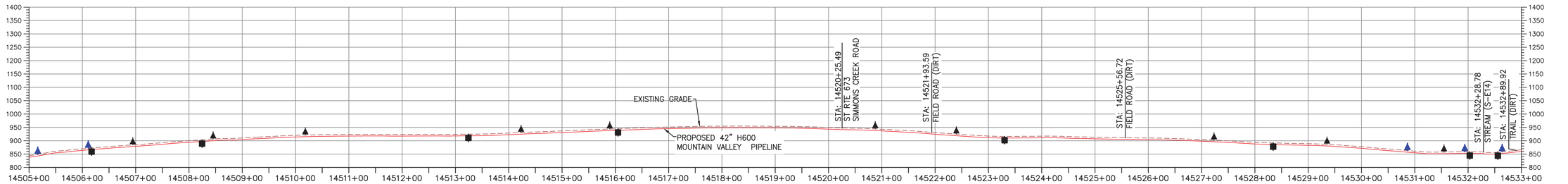


PLAN

SCALE: 1" = 100'

100 0 100 200

LOCATION MAP



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

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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.
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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

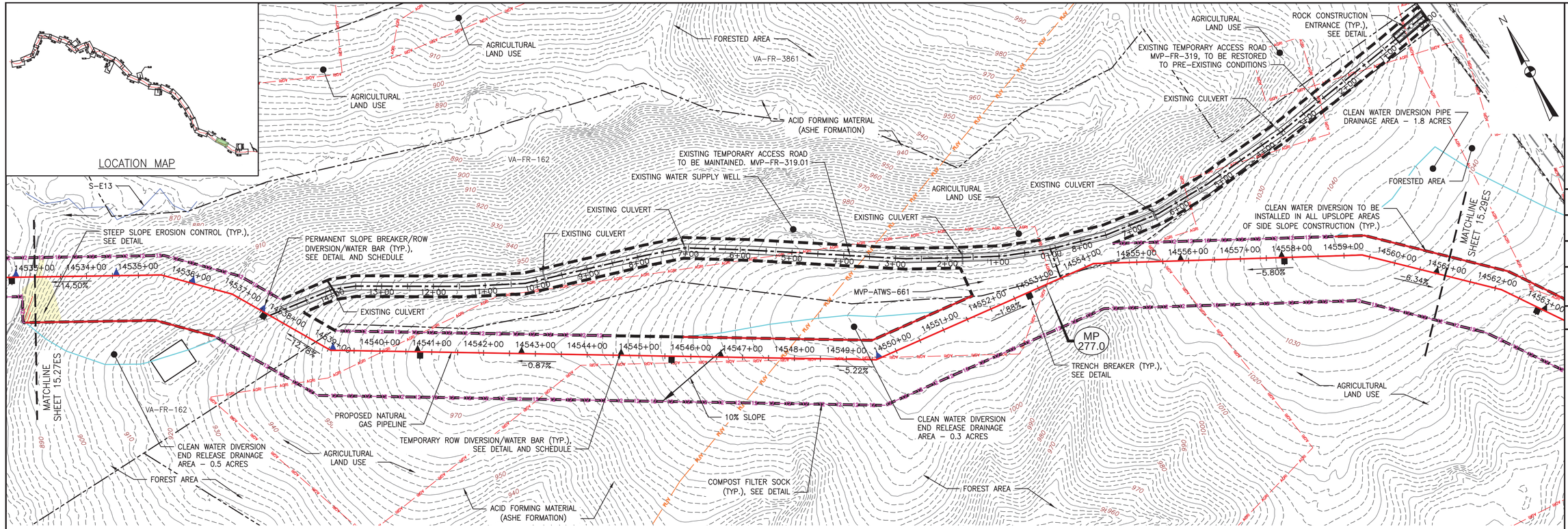
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.27ES OF 15.99ES

REVISION

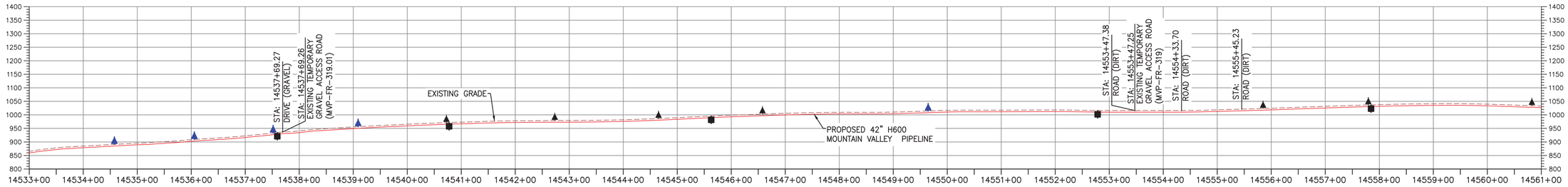
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
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- STEEP SLOPE AREAS (SEE NOTE 4)
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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

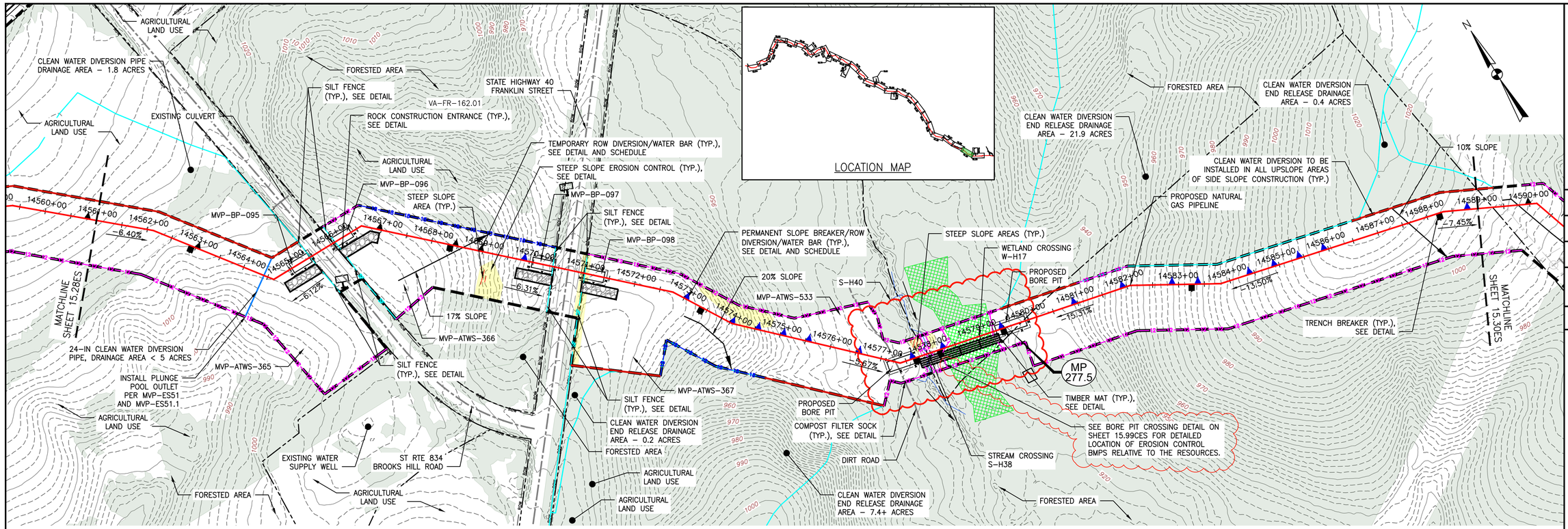
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.28ES OF 15.99ES

REVISION

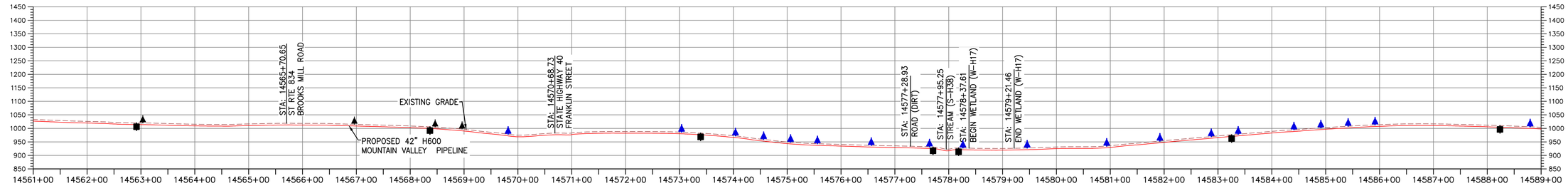


LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

LEGEND

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- APPALACHIAN NATIONAL SCENIC TRAIL
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

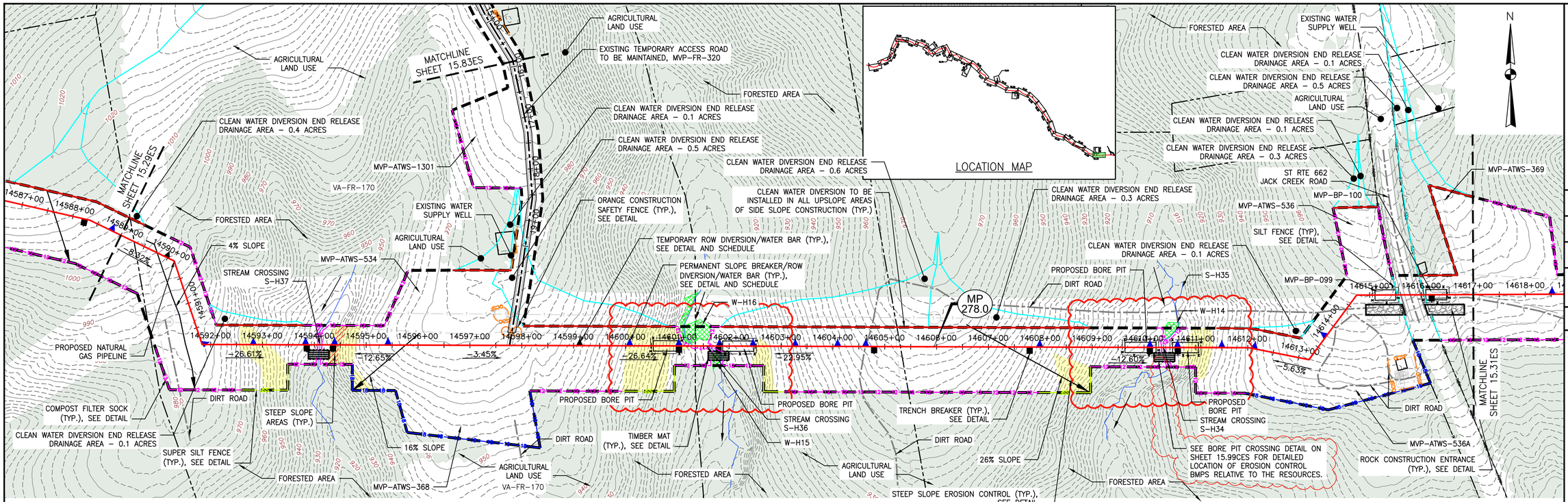
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2023

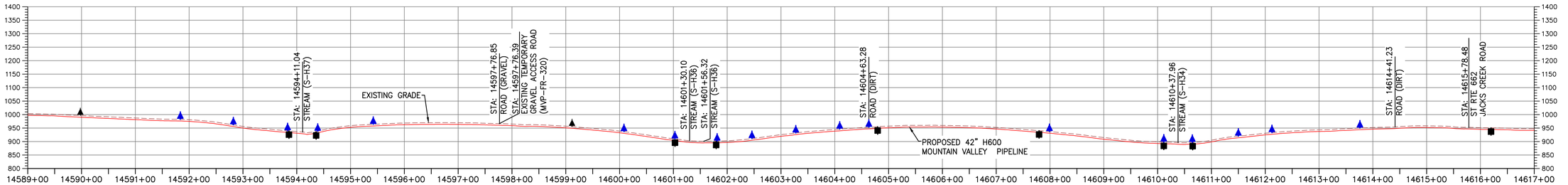
DRAWN BY:	JZ
CHECKED BY:	RE
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	
SHT. NO.	15.29ES OF 15.99ES

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PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

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
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- WETLAND
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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REVISIONS:

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–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

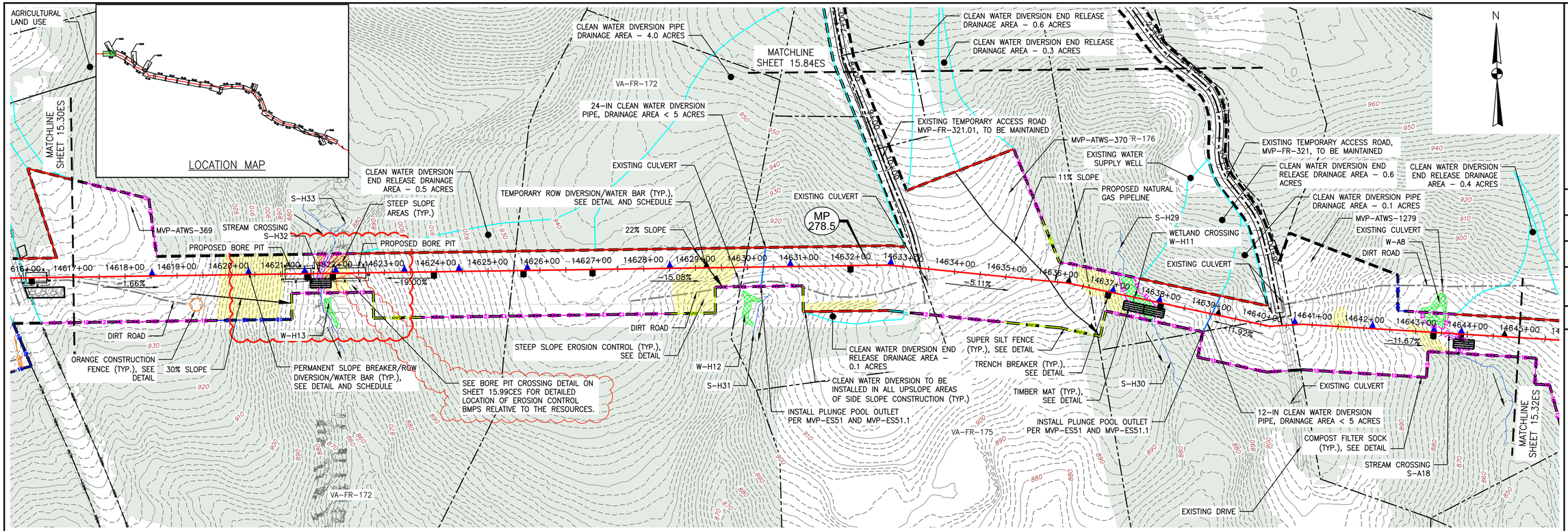
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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
David J. Wallner
DAVID J. WALLNER
Lic. No. 57593
5/12/2021
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.30ES OF 15.99ES

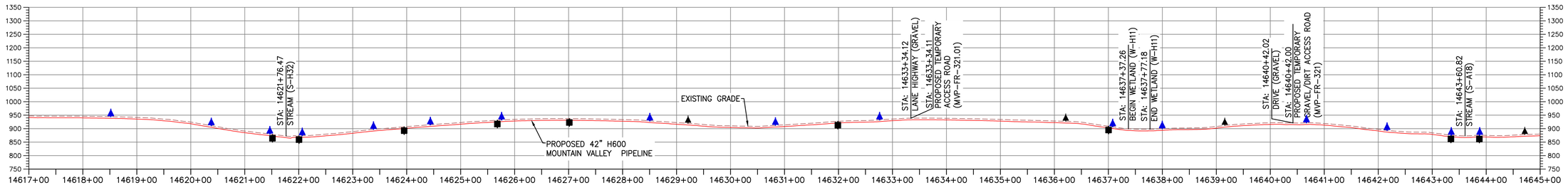
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

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100 0 100 200

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200 0 200 400

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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 04–07–2023

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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

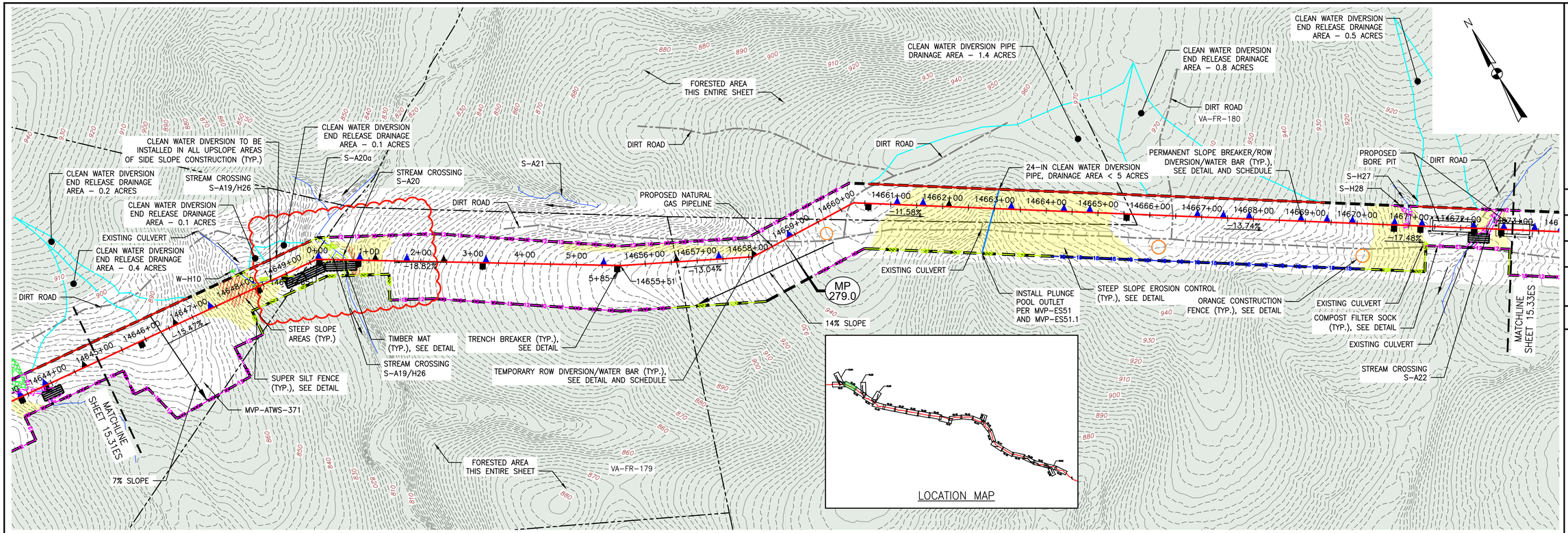
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
5/12/2023
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	
SHT. NO.	15.31ES OF 15.99ES

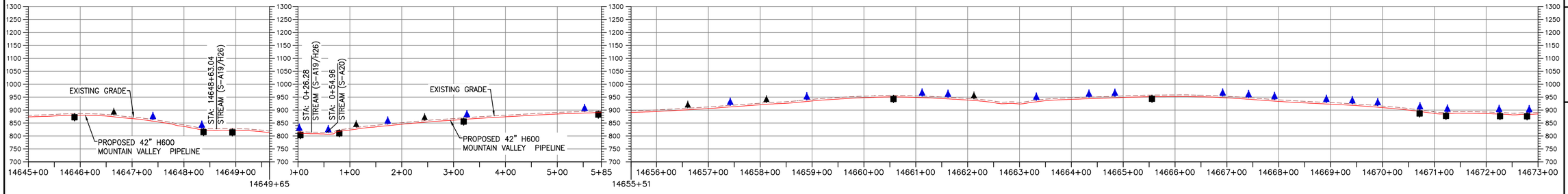
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
- 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)
- 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 (SEE DETAIL MVP–17)
- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAIL MVP–17)

COMMONWEALTH OF VIRGINIA
9/18/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 09–18–2023

NOTES:

1. TOPSOIL SEGREGATION WILL BE PERFORMED IN ALL IMMEDIATE CONSTRUCTION AREAS OF THE PROJECT IN ACCORDANCE WITH DETAILS MVP–ES46.1 THROUGH MVP–ES46.3.
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. IMPROVEMENTS TO PERMANENT AND TEMPORARY ACCESS ROADS WILL BE PERFORMED PER THE SITE SPECIFIC ACCESS ROAD DETAILS.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE.

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	09/18/23	JJZ	IHH	DCW	S–A20 CROSSING CHANGED TO OPEN CUT
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 10 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

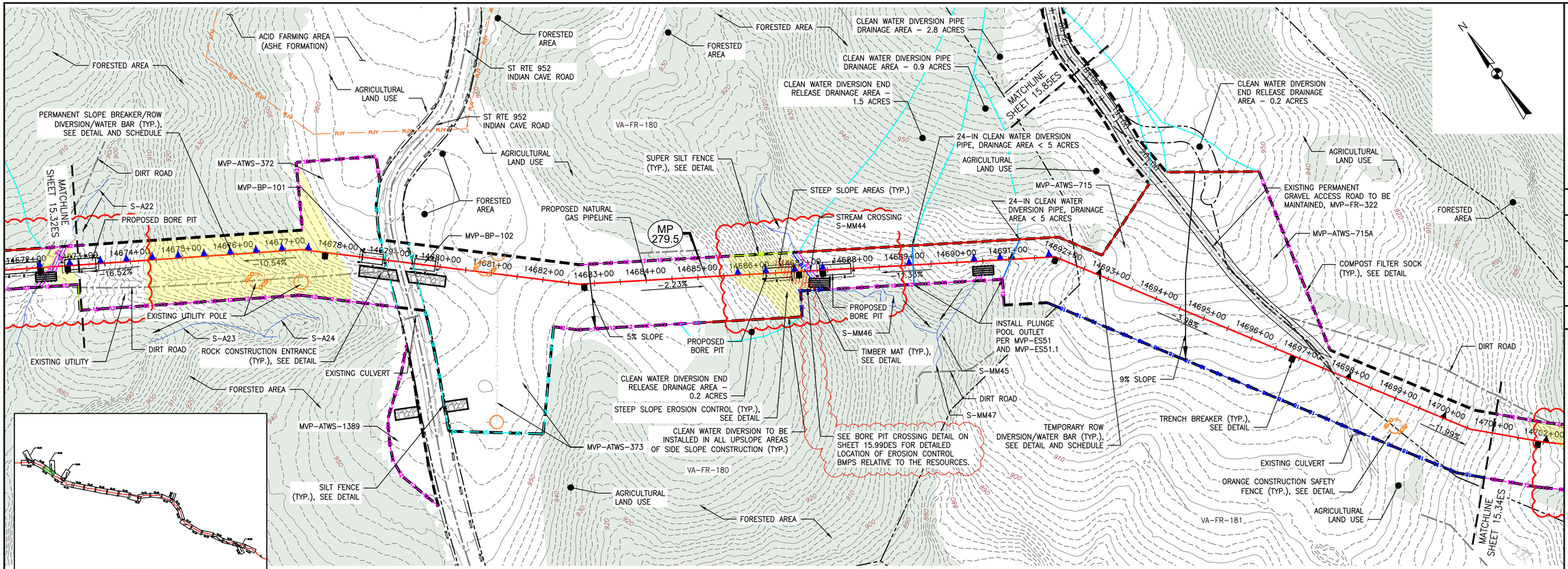
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

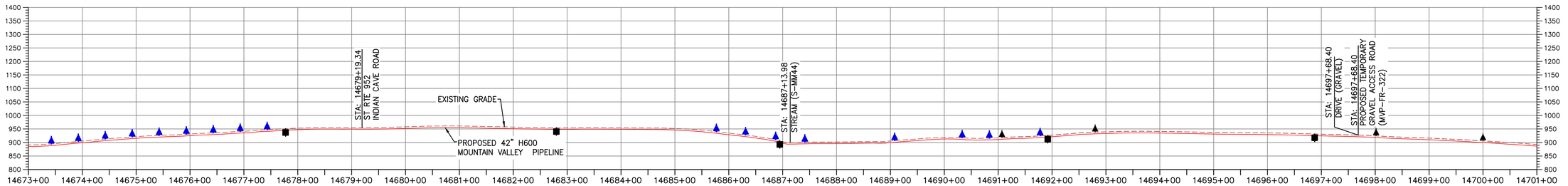
DRAWN BY:	JJZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	09/18/2023
SCALE:	AS SHOWN
SHT. NO.	15.32ES OF 14.81ES

– REVISION

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PLAN
SCALE: 1" = 100'



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

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
- 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)
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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 3.11)
- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
THIS SEAL APPLIES ONLY TO REVISIONS DATED 04-07-2023

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
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5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

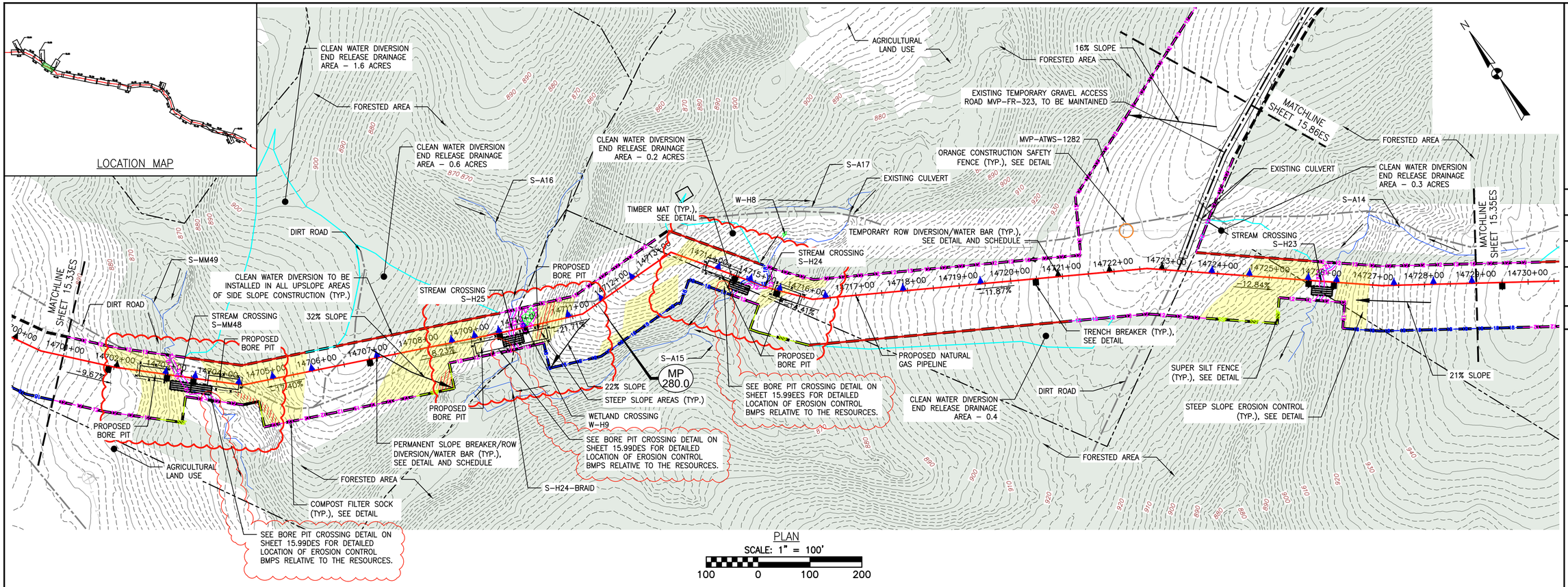
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

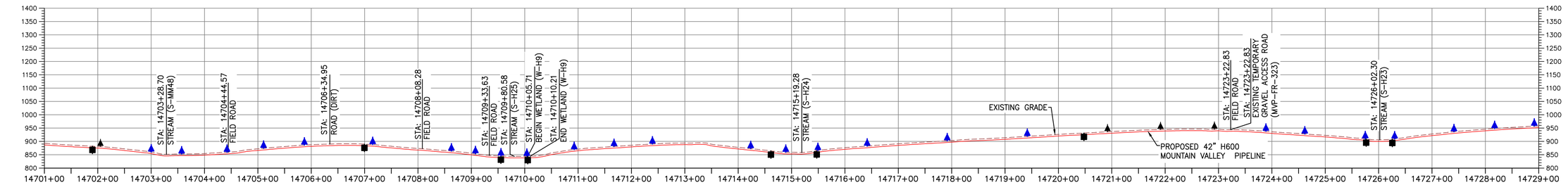
DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN

REVISION

SHT. NO. 15.33ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.33(S11).dwg PLOTTED ON: 4/4/2023 11:24 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'
100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'
200 0 200 400

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
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

TETRA TECH
complex world | CLEAR SOLUTIONS™
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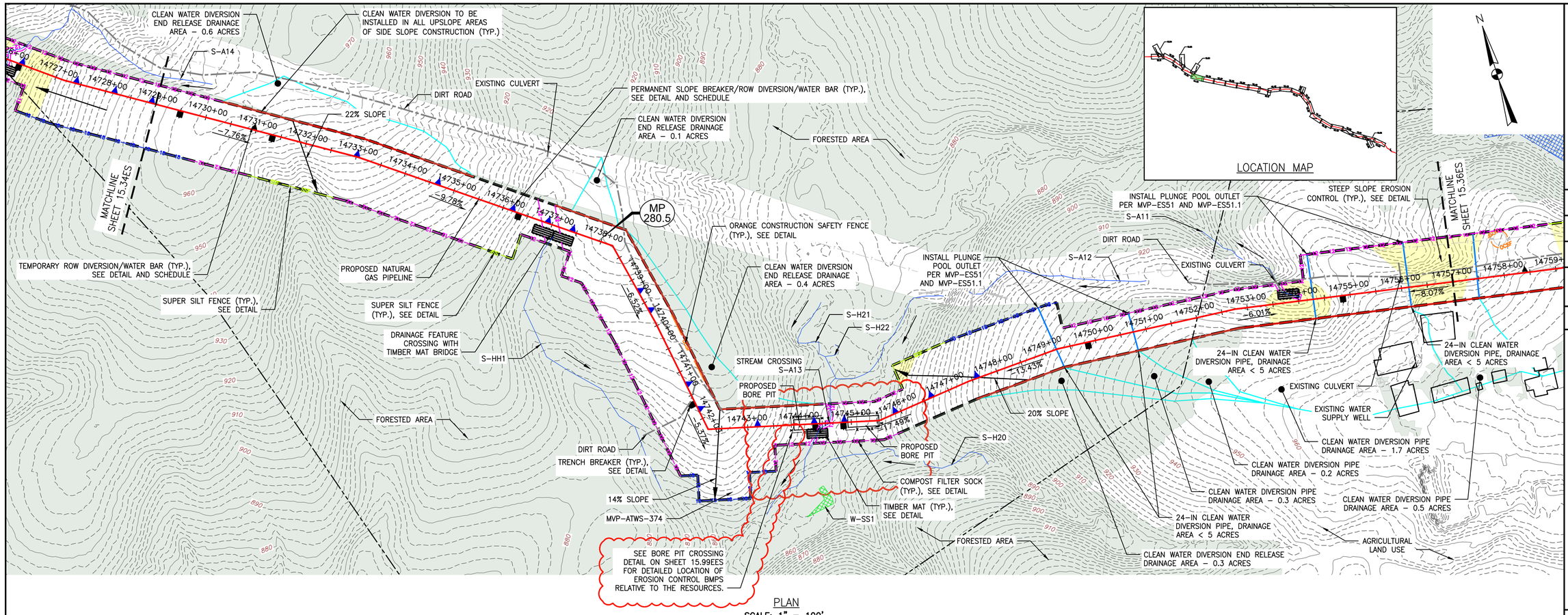
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
5/12/2023
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.34ES OF 15.99ES

REVISION

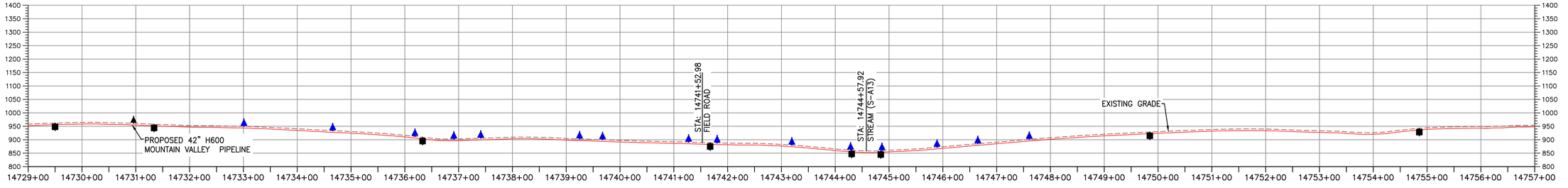
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

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- STREAM
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COMMONWEALTH OF VIRGINIA 4/7/23 DANIEL C. WITT Lic. No. 65093 PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 04–07–2023

NOTES:

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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

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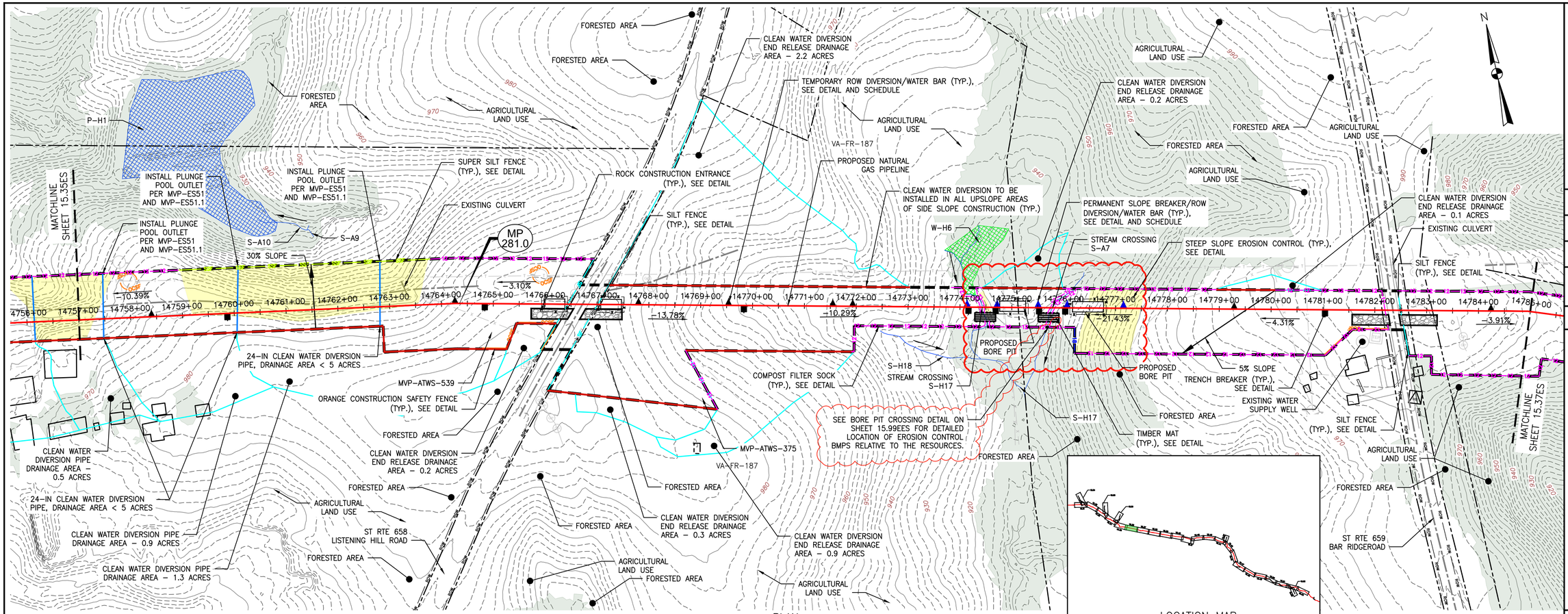
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EROSION AND SEDIMENT CONTROL PLANS

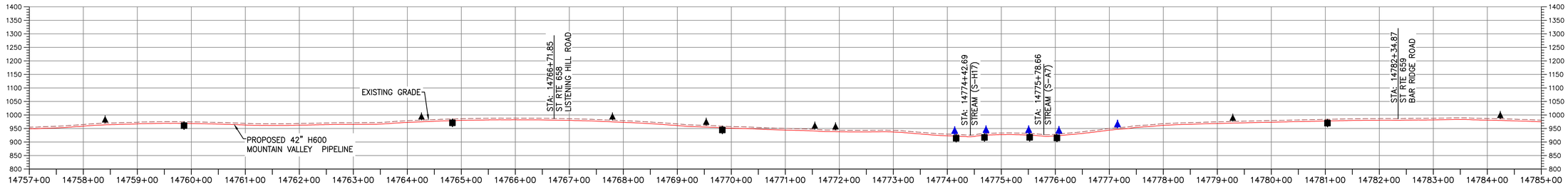
COMMONWEALTH OF VIRGINIA DAVID J. WALLNER Lic. No. 57593 PROFESSIONAL ENGINEER 5/12/2021

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	6
SHT. NO.	15.35ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.35(S11).dwg PLOTTED ON: 4/4/2023 11:54 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



PLAN
SCALE: 1" = 100'
100 0 100 200



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

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
- 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)
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- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP–ES3, 3.1, 3.2)
- GRASS–LINED CHANNEL (SEE DETAIL MVP–ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP–ES50 AND MVP–ES51)
- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP–ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- 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)

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
THIS SEAL APPIIES ONLY TO REVISIONS DATED 04–07–2023

NOTES:

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

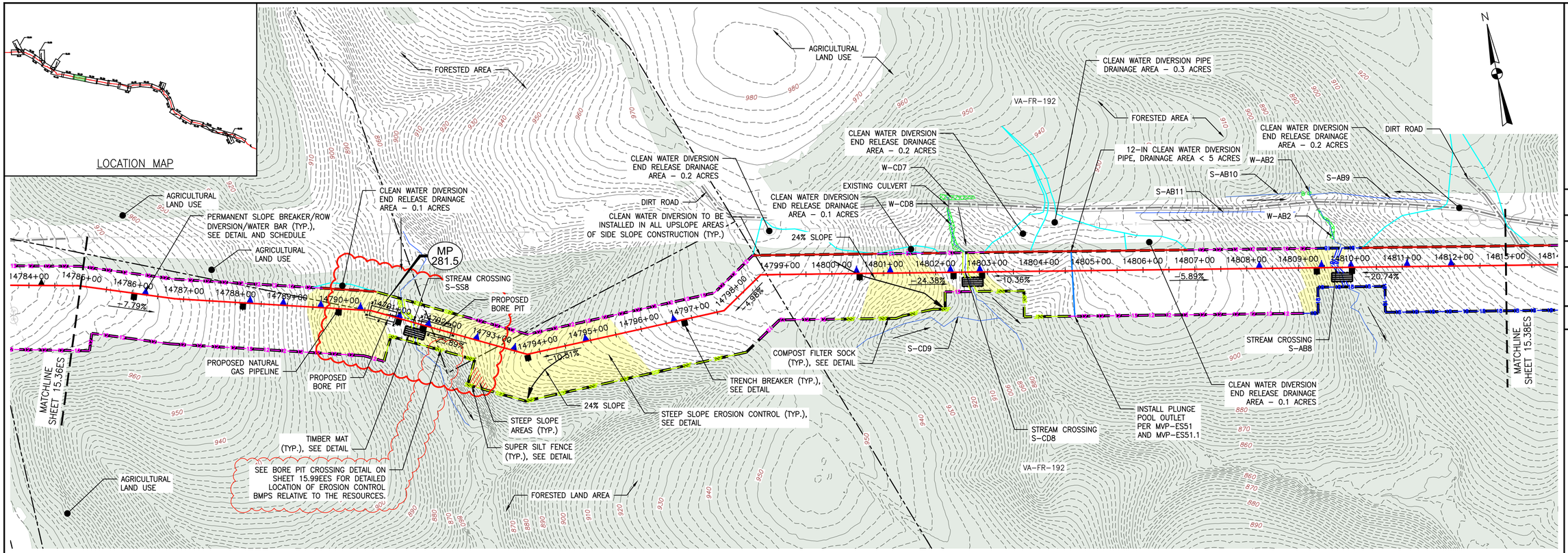
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
12/12/2023

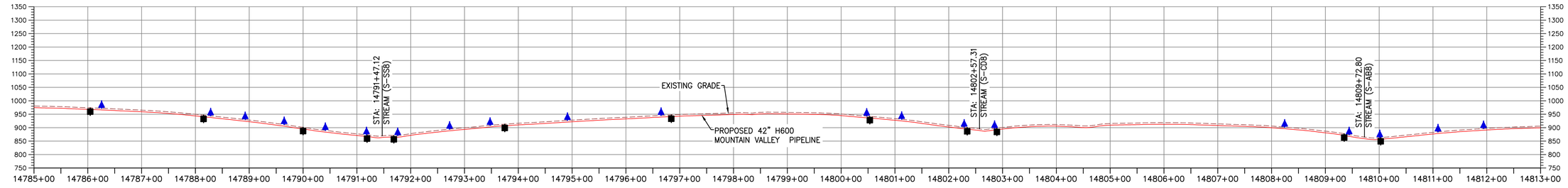
DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.36ES OF 15.99ES

REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.36(S11).dwg PLOTTED ON: 4/4/2023 12:08 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



PLAN
SCALE: 1" = 100'



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

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
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–	05/12/21	JZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

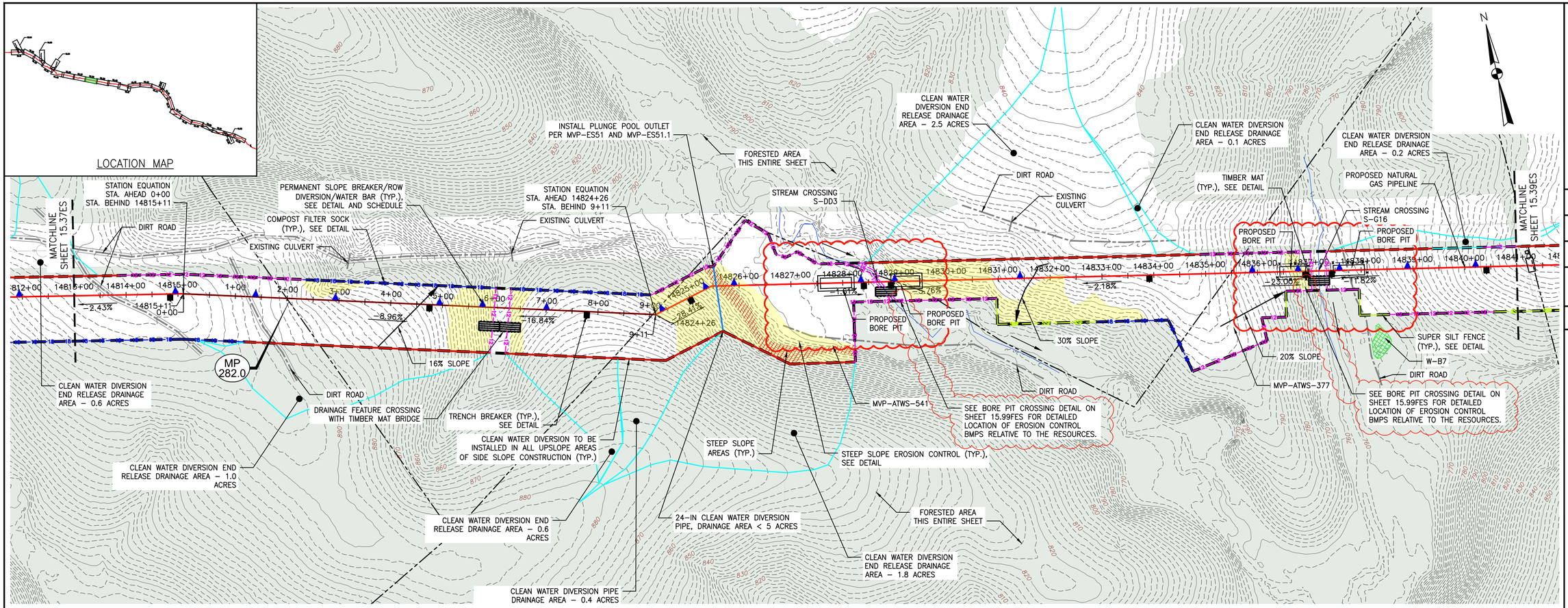
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.37ES OF 15.99ES

REVISION

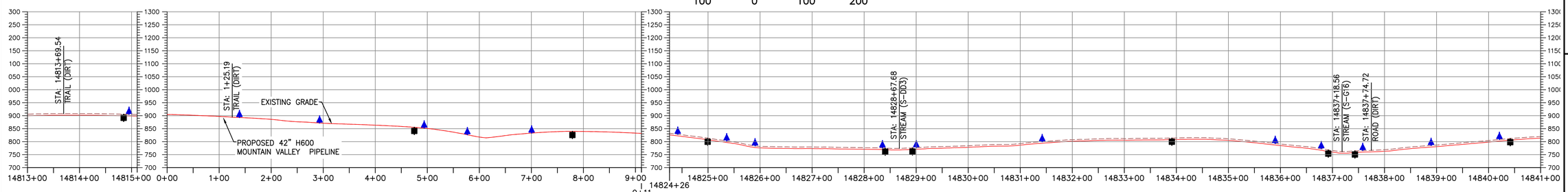
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
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6	03/16/18	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 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

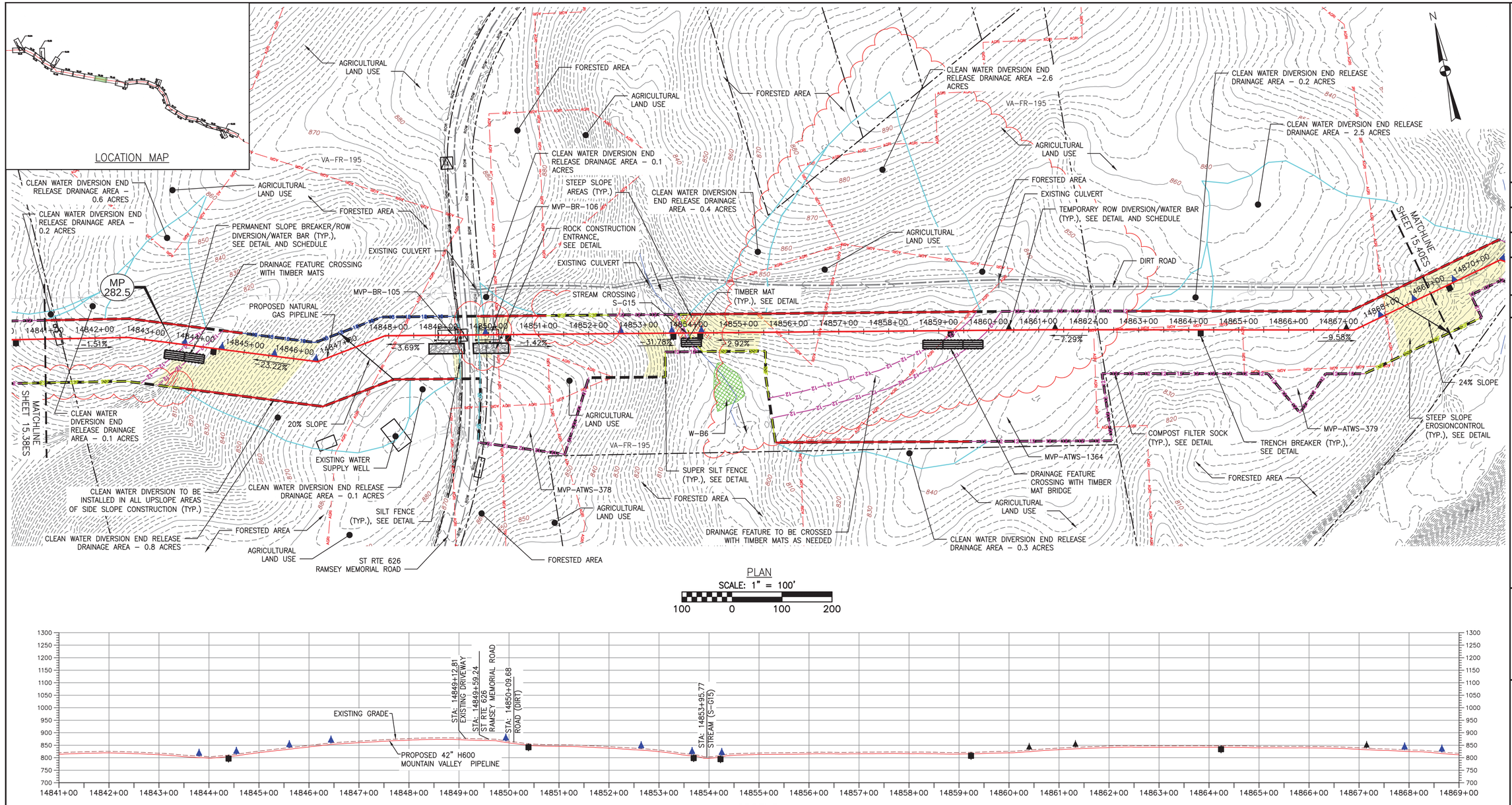
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	1
SHT. NO.	15.38ES OF 15.99ES

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PLAN
SCALE: 1" = 100'
100 0 100 200

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

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
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- EXISTING COUNTY LINE
- POND
- WETLAND
- ACID FORMING MATERIAL
- AGRICULTURAL LAND USE BOUNDARY
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- PROPOSED PIPELINE
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- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP–ES37)
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- PROPOSED TRENCH BREAKER (SEE DETAIL MVP–20)
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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.39(S11).dwg PLOTTED ON: 3/13/2018 9:38 AM PLOTTED BY: Rickabaugh, Greg PLOT FILE: ENVIRONMENTAL_COLOR.ctb

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
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4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

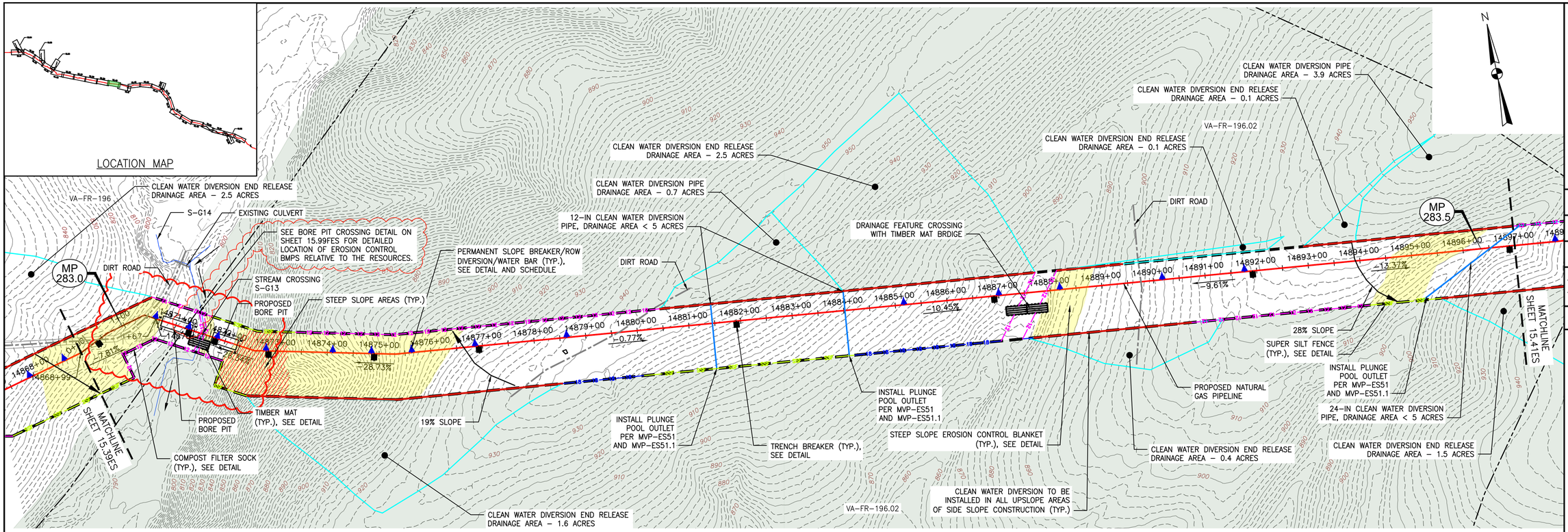
MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.39ES OF 15.99ES



LEGEND

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

NO.:	DATE:	DESCRIPTION:	APPD.:	CHKD.:	DWN.:
–	04/07/23	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD	DCW	JZ	JZ
–	10/11/22	REMOVE MVP–ATWS–1272	TD	DCW	JZ
–	12/21/18	PERMANENT ROAD CROSSING OF BUFFALO CREEK AND SLOPE PROTECTION DESIGN (FOR CONTRACTOR USE ONLY)	DW	RE	JK
8	11/08/18	FIELD MODIFICATION	DW	RE	JZ
7	08/09/18	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL	DW	RE	JZ
6	03/16/18	ADDRESS VADEQ COMMENTS	DW	RE	KAL

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	JZ
CHECKED BY:	DCW
APPROVED BY:	TD
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.40ES OF 15.99ES

REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.40(S11).dwg PLOTTED ON: 4/4/2023 1:04 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

PROPOSED PERMANENT ACCESS ROAD, WILL BE GRAVELED, MVP-MLV-AR-33 PER MVP-ES33, MVP-ES33.1, AND MVP-ES33.2

MVP-MLV-33

MVP-BP-108

SILT FENCE (TYP.), SEE DETAIL

FORESTED AREA

INSTALL PLUNGE POOL OUTLET PER MVP-ES51 AND MVP-ES51.1

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.1 ACRES

AGRICULTURAL LAND USE

STREAM CROSSING S-D7

FORESTED AREA

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.5 ACRES

TEMPORARY ROW DIVERSION/WATER BAR (TYP.), SEE DETAIL AND SCHEDULE

AGRICULTURAL LAND USE

PROPOSED NATURAL GAS PIPELINE

EQUATION STATION STA. AHEAD: 0+00 STA. BEHIND: 14916+21.30

14916+21

0+00

MATCHLINE SHEET 15.40ES

MATCHLINE SHEET 15.42ES

MVP-ATWS-380

MVP-BP-107

ROCK CONSTRUCTION ENTRANCE (TYP.), SEE DETAIL

EXISTING CULVERT

EXISTING ROAD SIGN

TRENCH BREAKER (TYP.), SEE DETAIL

TIMBER MAT (TYP.), SEE DETAIL

WETLAND CROSSING W-MM17

S-D6

PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (TYP.), SEE DETAIL AND SCHEDULE

CLEAN WATER DIVERSION PIPE DRAINAGE AREA – 2.2 ACRES

AGRICULTURAL LAND USE

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 3.9 ACRES

12-IN CLEAN WATER DIVERSION PIPE PER DRAINAGE AREA < 5 ACRES

CLEAN WATER DIVERSION TO BE INSTALLED IN ALL UPSLOPE AREAS OF SIDE SLOPE CONSTRUCTION

MVP-ATWS-1284

FRANKLIN COUNTY

PITTSYLVANIA COUNTY

CLEAN WATER DIVERSION PIPE DRAINAGE AREA – 0.3 ACRES

AGRICULTURAL LAND USE

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 1.5 ACRES

CLEAN WATER DIVERSION PIPE DRAINAGE AREA – 0.7 ACRES

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 2.0 ACRES

SR 782 ASHWORTH ROAD

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.1 ACRES

COMPOST FILTER SOCK (TYP.), SEE DETAIL

MVP-ATWS-1283

AGRICULTURAL LAND USE

EXISTING TEMPORARY DIRT ACCESS ROAD MVP-FR-324, TO BE RESTORED TO PRE-EXISTING CONDITIONS.

FORESTED AREA

FORESTED AREA

AGRICULTURAL LAND USE

FORESTED AREA

SILT FENCE (TYP.), SEE DETAIL

SR 890 SNOW CREEK ROAD

MVP-ATWS-650

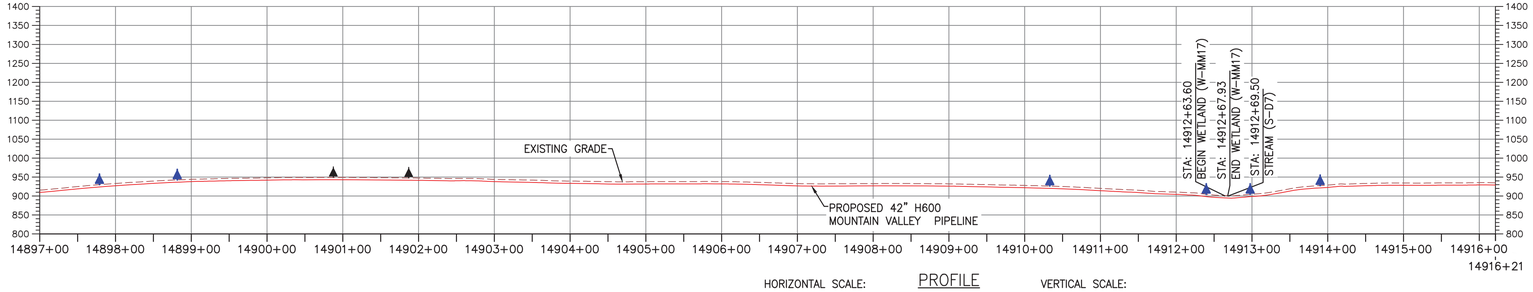
ROCK CONSTRUCTION ENTRANCE, SEE DETAIL

LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
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- 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)
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- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
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4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

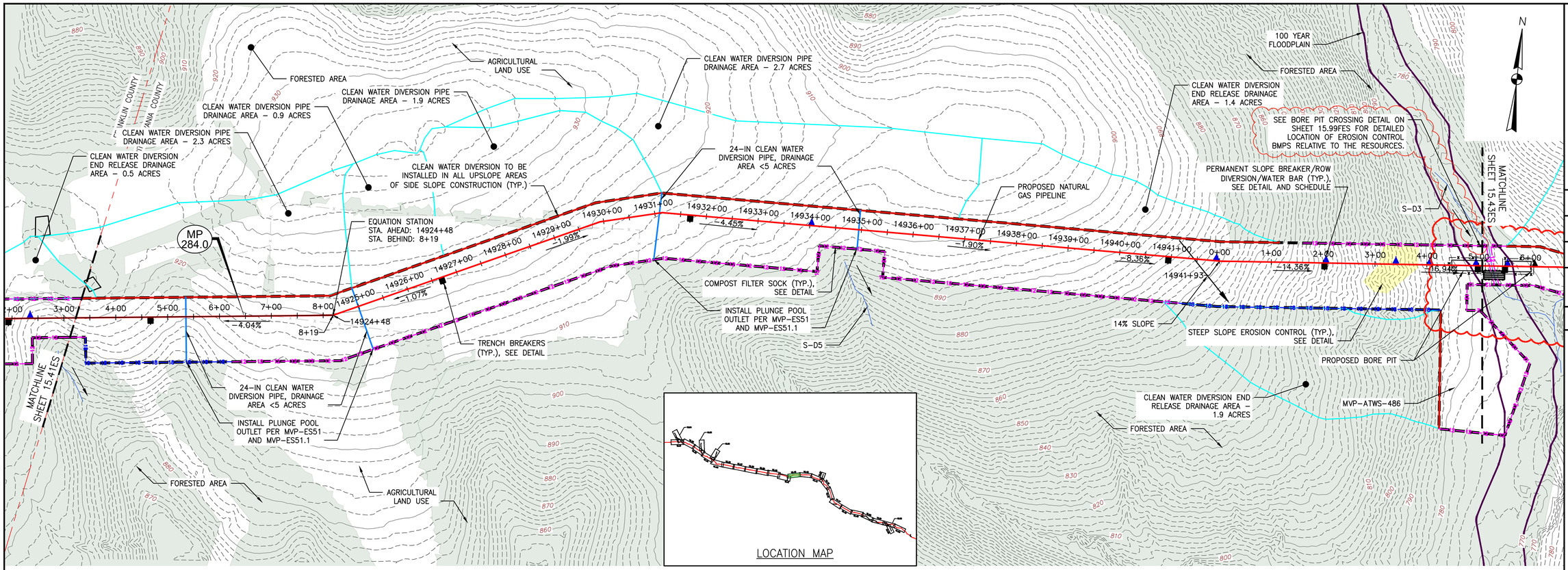
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5

SHT. NO. 15.41ES OF 15.99ES

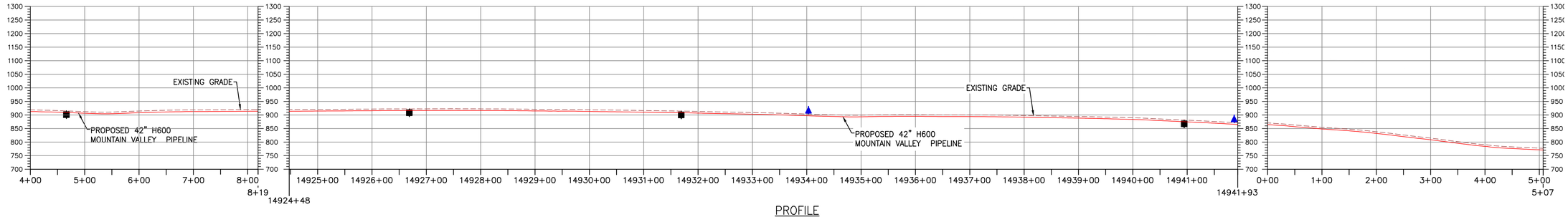


LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 04-07-2023

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

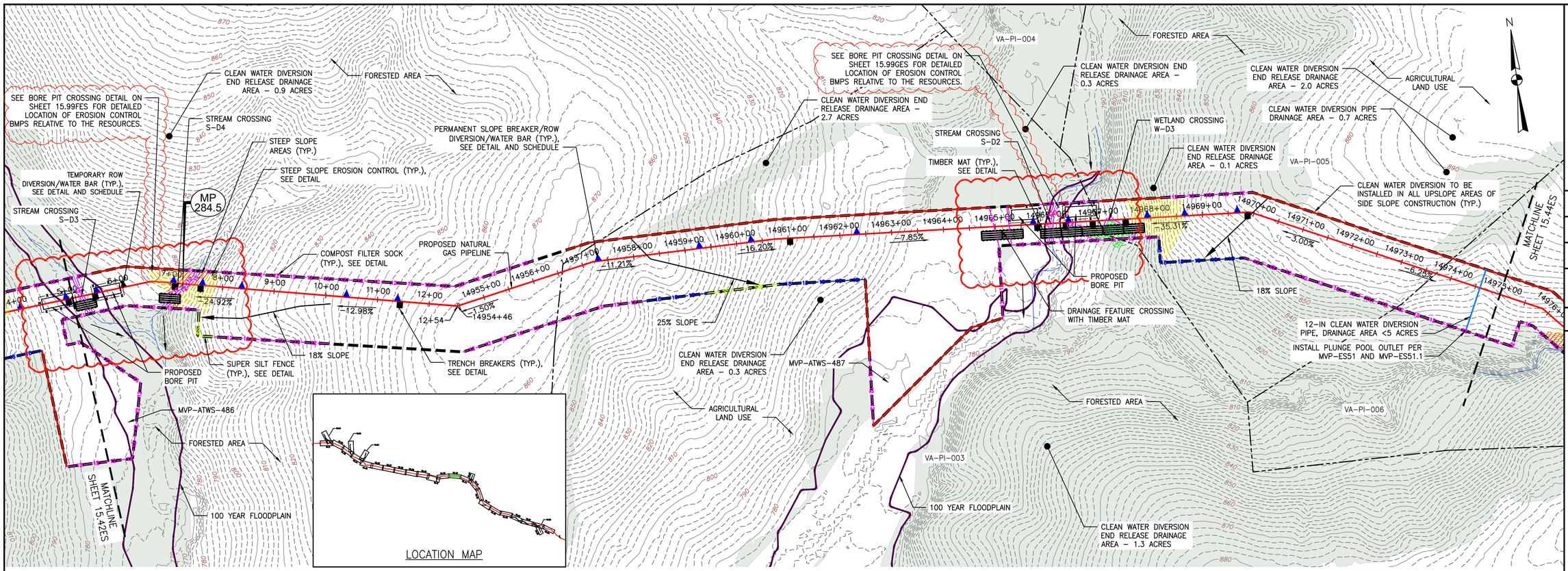
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

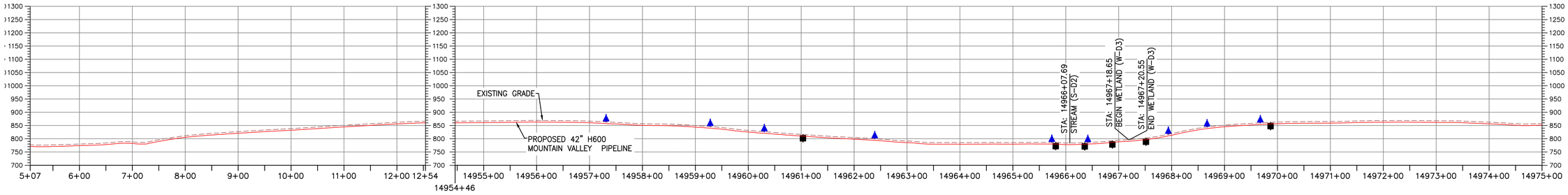
DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.42ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- ANST — ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- AFM — AFM — ACID FORMING MATERIAL
- EXISTING FOREST
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SF — SF — PROPOSED SILT FENCE (SEE NOTE 5)
- SSF — SSF — PROPOSED SUPER SILT FENCE (SEE DETAIL MVP–ES9.2)
- RFD — RFD — PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP–ES9, 9.1, 9.2, 9.3)
- OCSF — ORANGE CONSTRUCTION SAFETY FENCE
- 12 — 12 — 12 — 12 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP–ES3, 3.1, 3.2)
- 18 — 18 — 18 — 18 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP–ES3, 3.1, 3.2)
- 24 — 24 — 24 — 24 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP–ES3, 3.1, 3.2)
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- DRAINAGE AREA BOUNDARY
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- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
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- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP–17, ES38, AND SCHEDULE)

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04–07–2023

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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

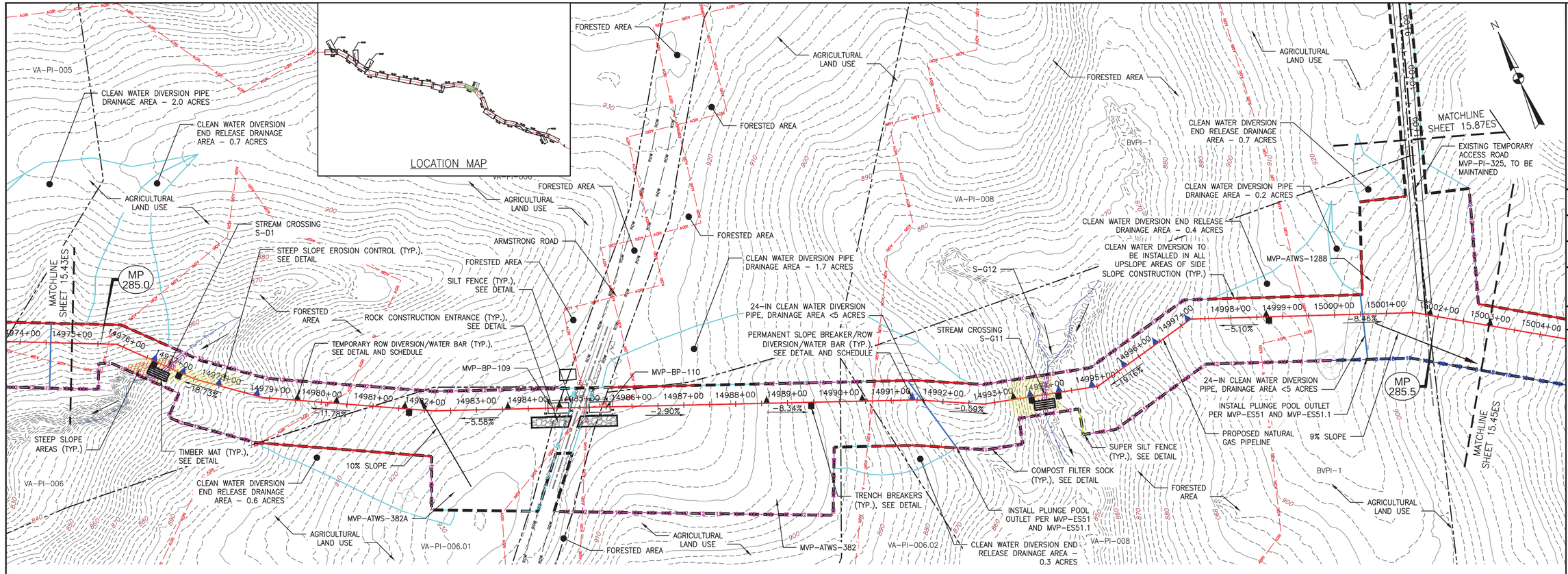
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5/12/2021

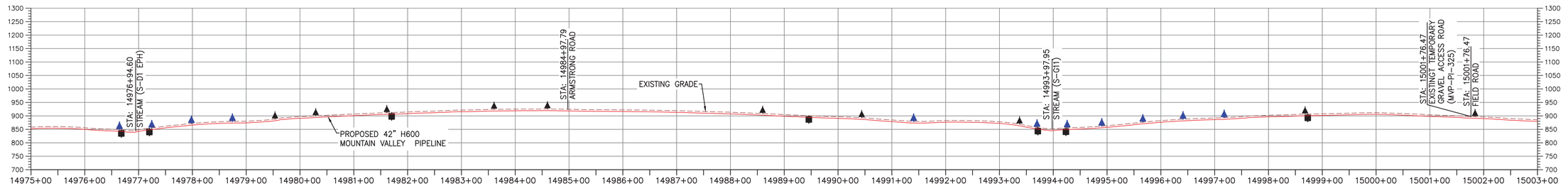
DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.43ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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- 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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5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

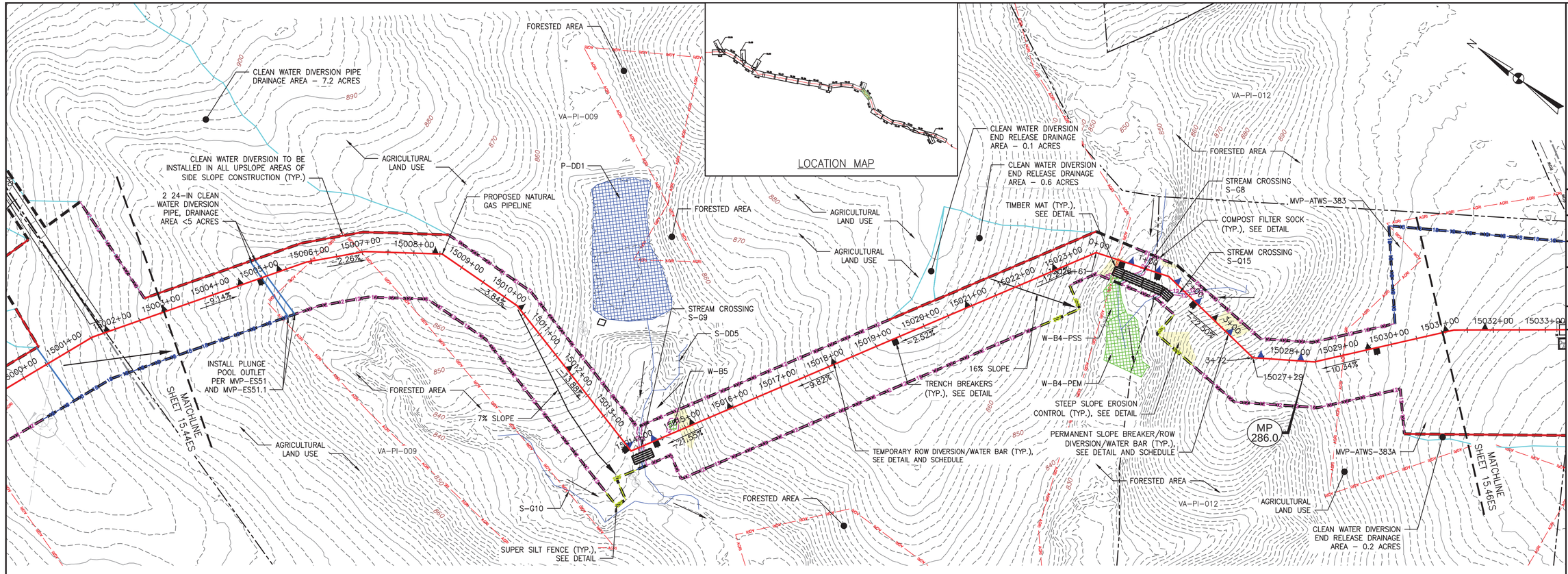
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.44ES OF 15.99ES

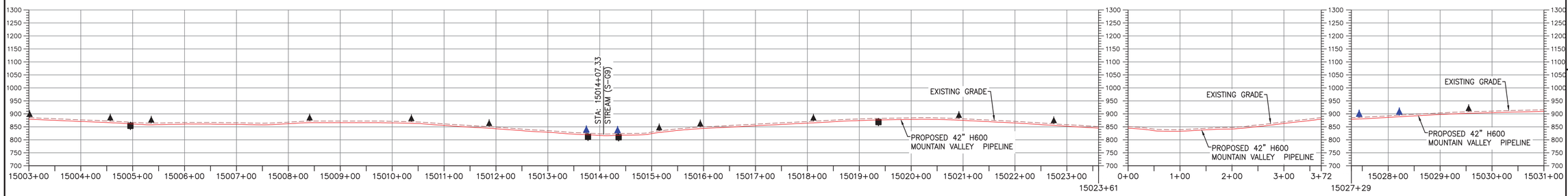
REVISION

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PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

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)
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- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
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- 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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3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

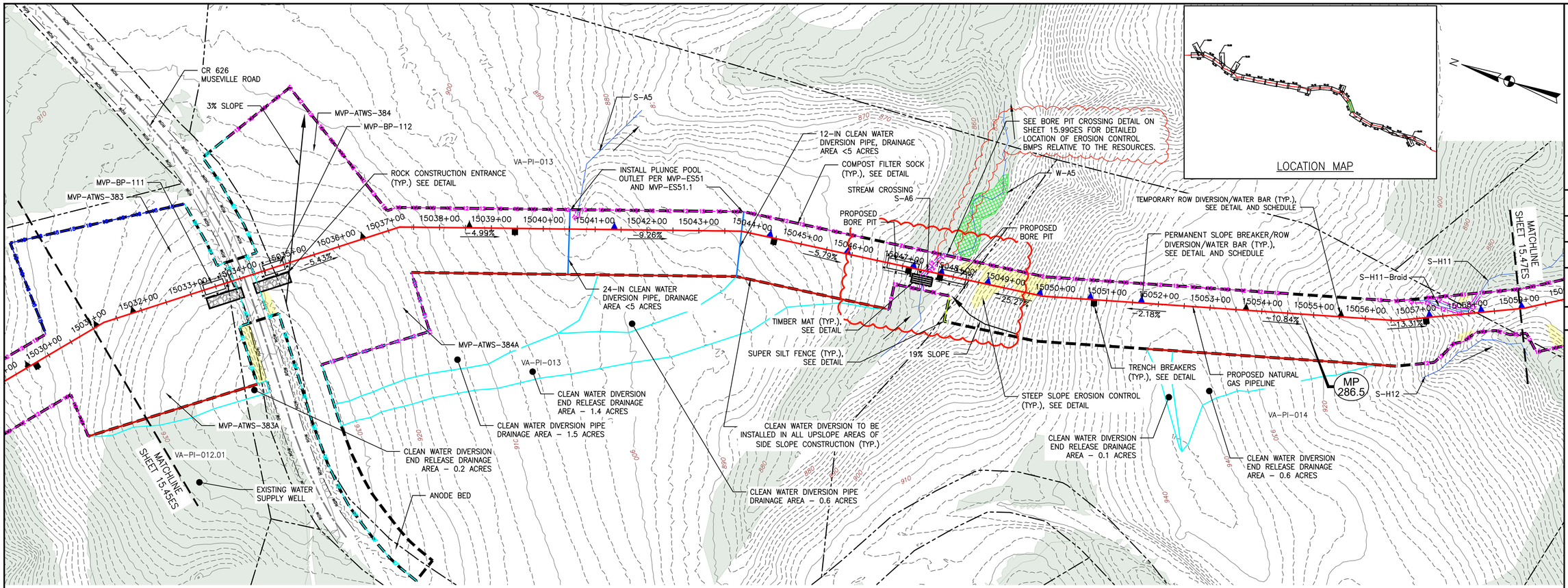
EROSION AND SEDIMENT CONTROL PLANS

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

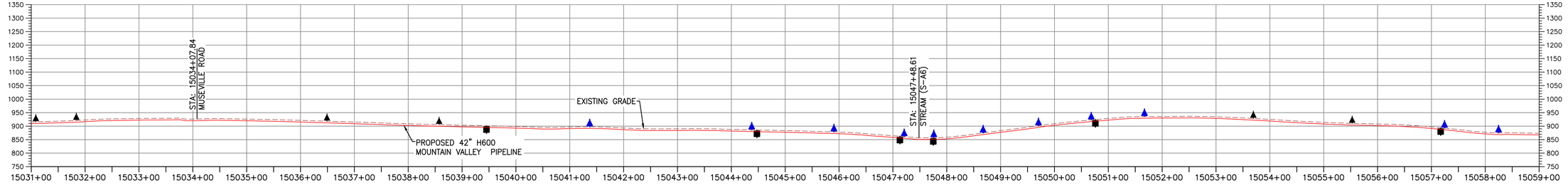
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CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	

SHT. NO. 15.45ES OF 15.99ES

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PLAN
SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

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
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- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 04-07-2023

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

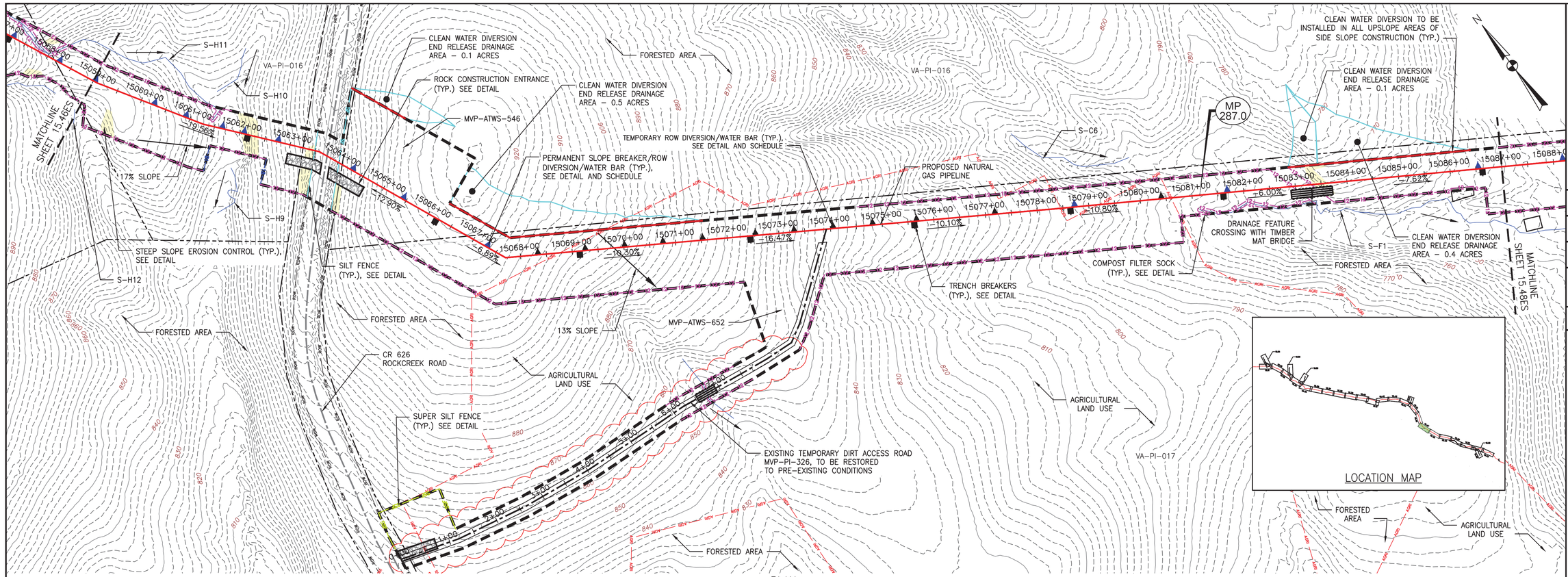
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
5/12/2023
PROFESSIONAL ENGINEER

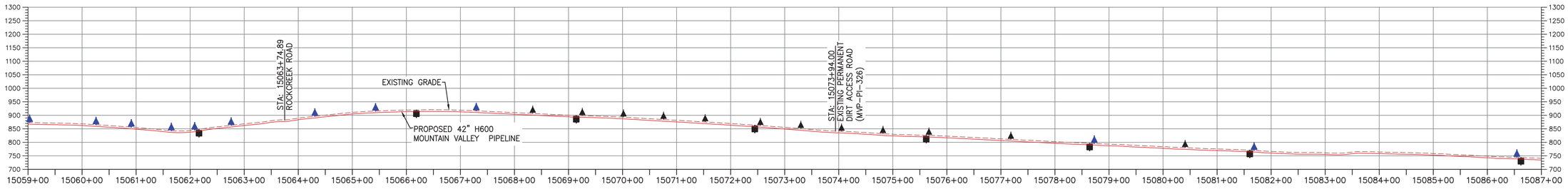
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CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.46ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
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4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

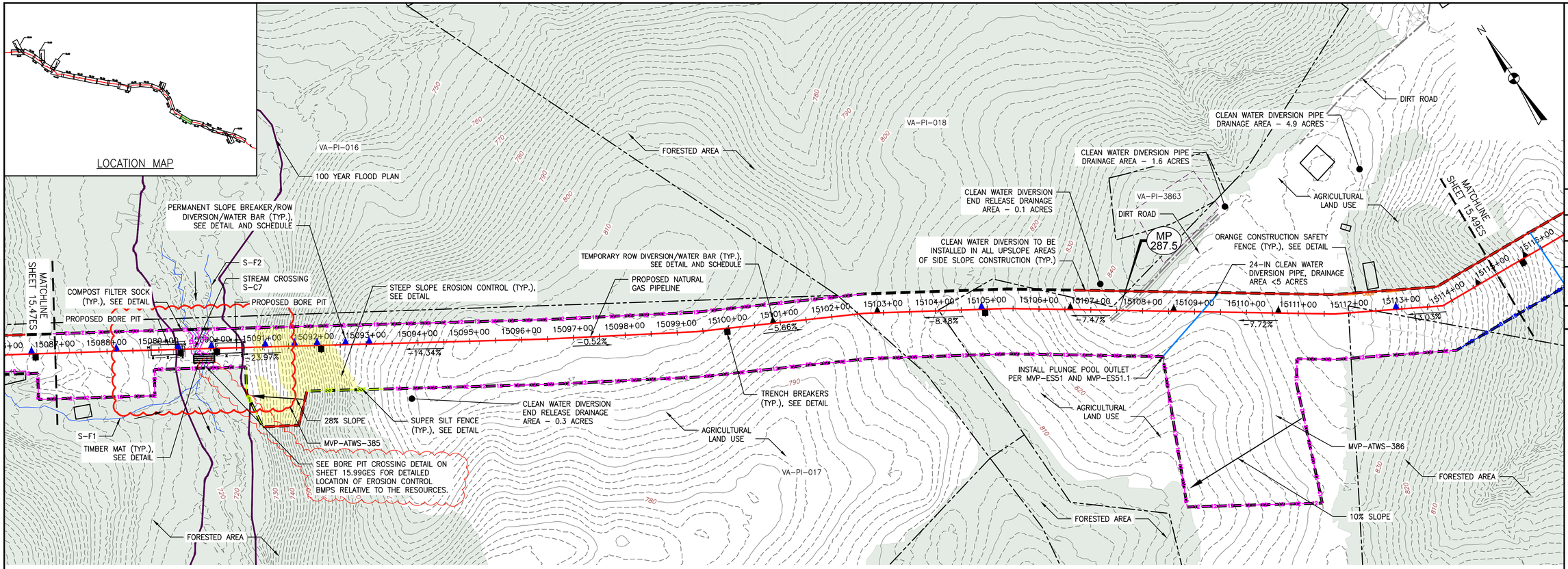
MOUNTAIN VALLEY PIPELINE, LLC
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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057503
PROFESSIONAL ENGINEER

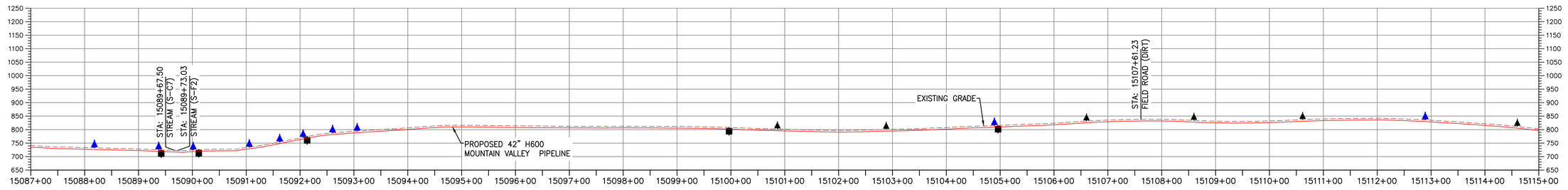
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CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.47ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

100 0 100 200 0 200 400

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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

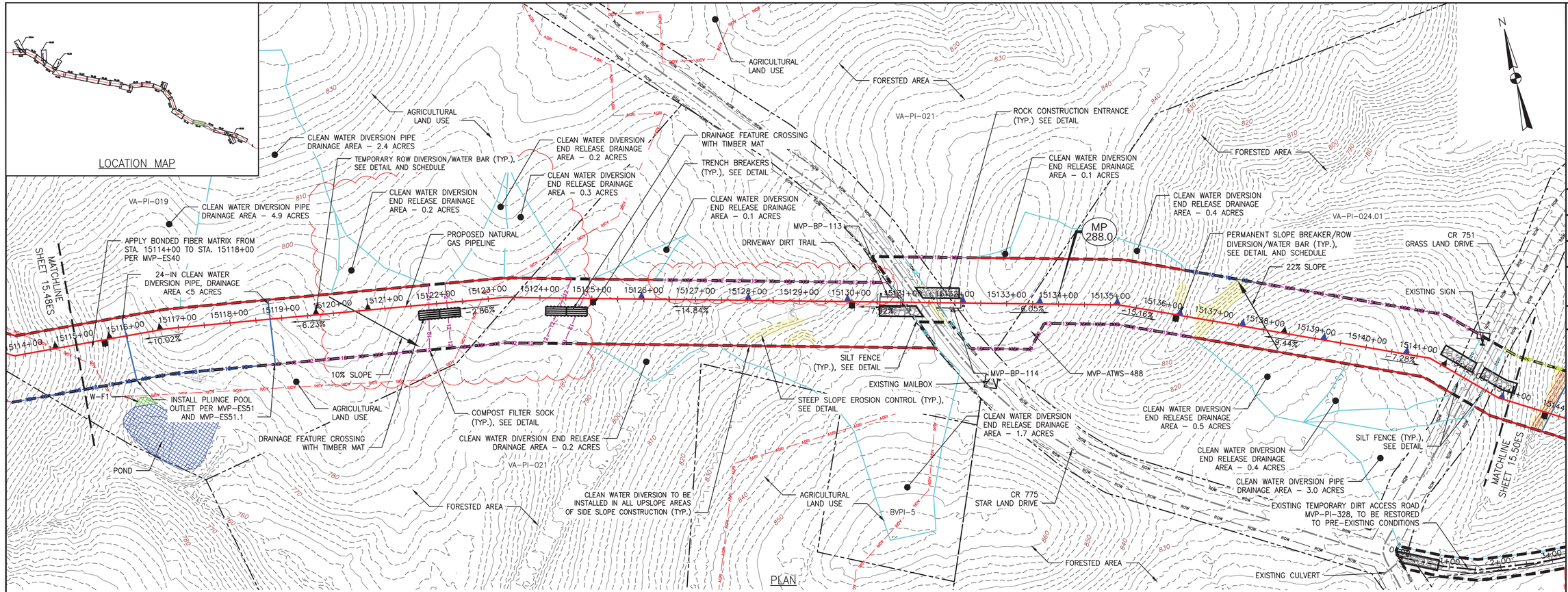
COMMONWEALTH OF VIRGINIA
David J. Wallner
DAVID J. WALLNER
Lic. No. 57593
5/12/2023
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.48ES OF 15.99ES

– REVISION

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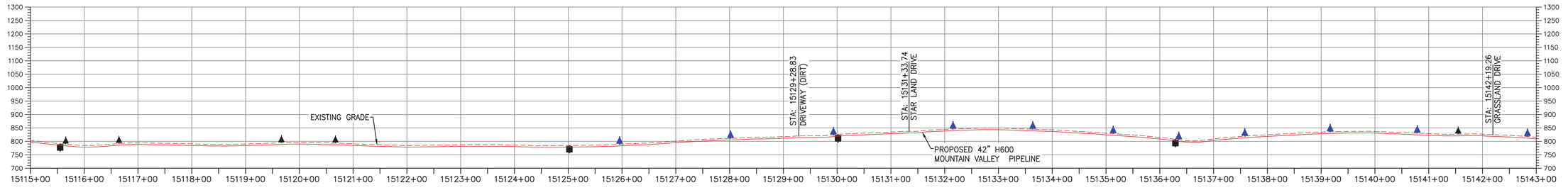
LOCATION MAP



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

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)
- 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.
5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE, AT THE DIRECTION OF MVP.
6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP–ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP–ES49.

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvainia\E&S\ES Version 5.0.0\7157ES15.49(S11).dwg PLOTTED ON: 3/13/2018 9:58 AM PLOTTED BY: Rickabaugh, Greg PLOT FILE: ENVIRONMENTAL_COLOR.ctb

REVISIONS:

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
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4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

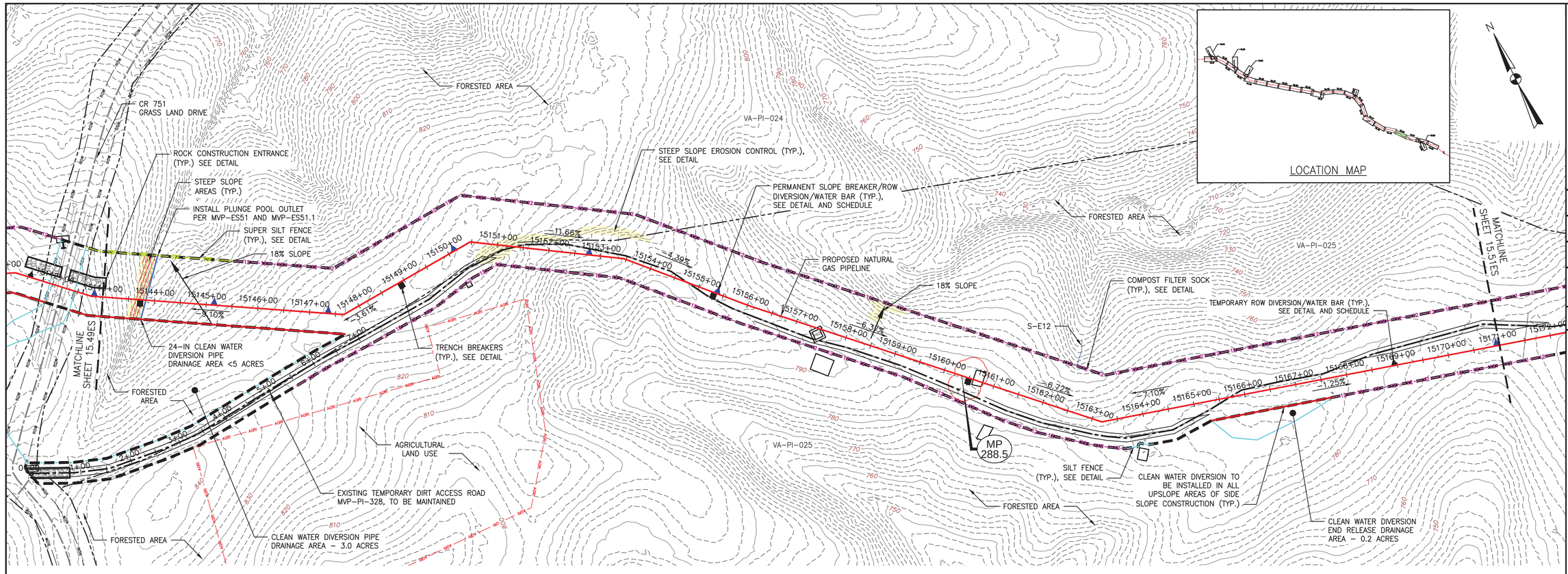
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FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.49ES OF 15.99ES

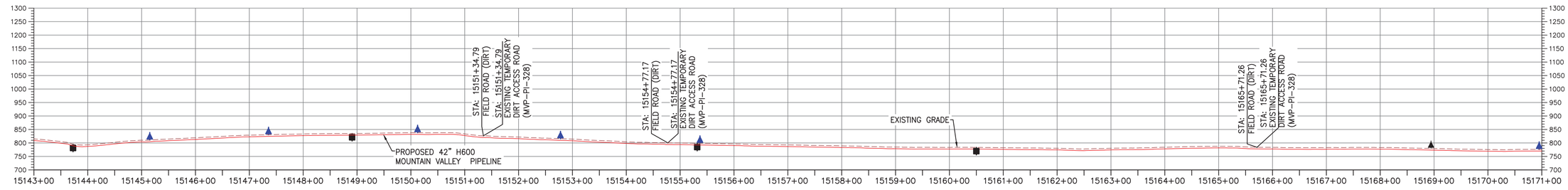
REVISION



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
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- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
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- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
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- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
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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.

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Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE

SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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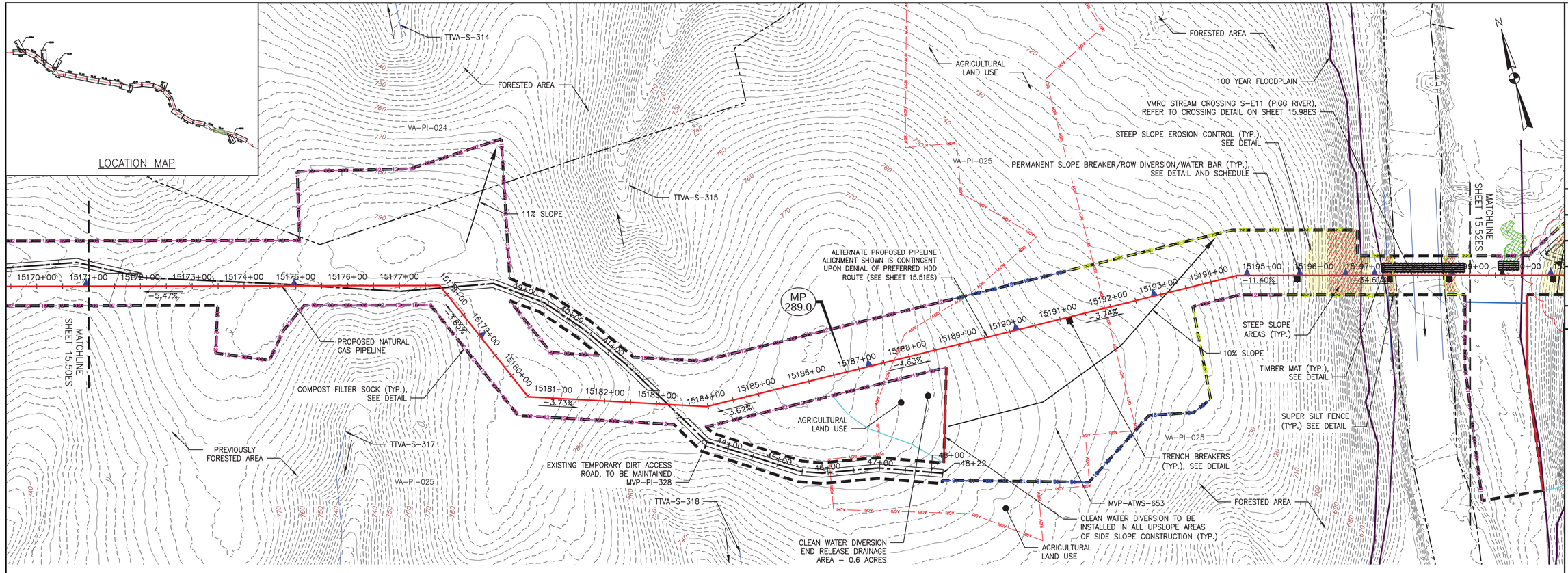
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.50ES OF 15.99ES

REVISION

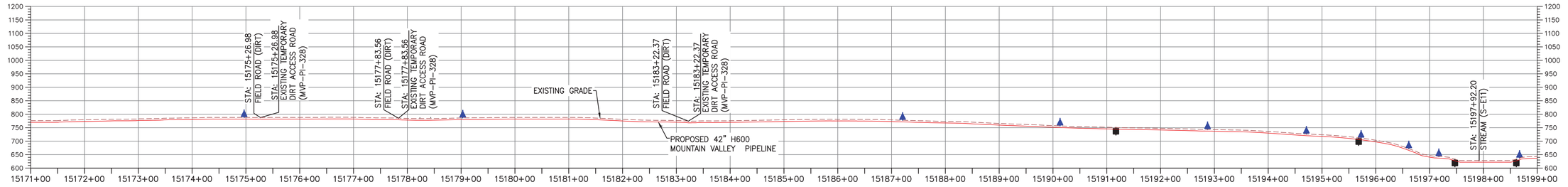
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- AFM — ACID FORMING MATERIAL
- AGRI — AGRICULTURAL LAND USE BOUNDARY
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SF — PROPOSED SILT FENCE (SEE NOTE 5)
- SSF — PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
- RFD — PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
- OCSF — ORANGE CONSTRUCTION SAFETY FENCE
- 12 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- 18 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- 24 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
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- TIMBER MAT (SEE DETAIL MVP-ES37)
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- STEEP SLOPE AREAS (SEE NOTE 4)
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- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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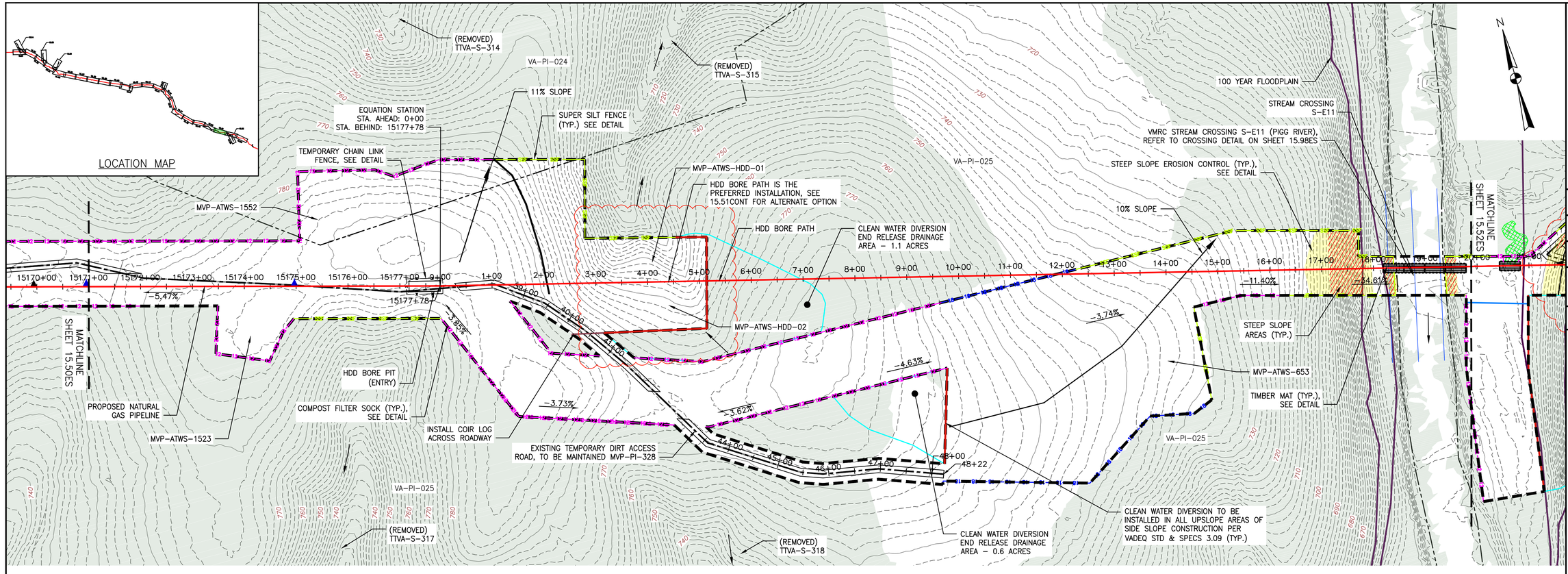
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
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APPROVED BY:	DW
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SCALE:	AS SHOWN
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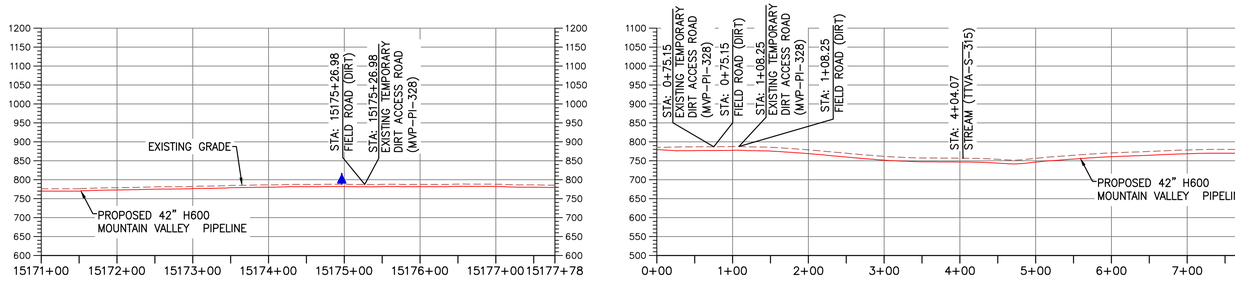
REVISION

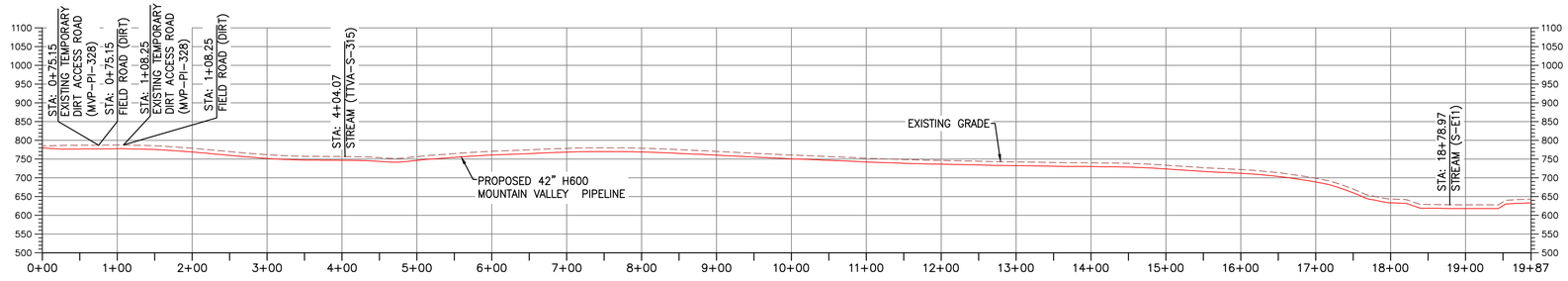
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PLAN

SCALE: 1" = 100'





PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
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- EXISTING ROAD/TRAIL
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9	07/20/18	KAL	RE	DW	FIELD MODIFICATION
8	04/30/18	KAL	RE	DW	FIELD MODIFICATION
7	04/19/18	KAL	RE	DW	FIELD MODIFICATION
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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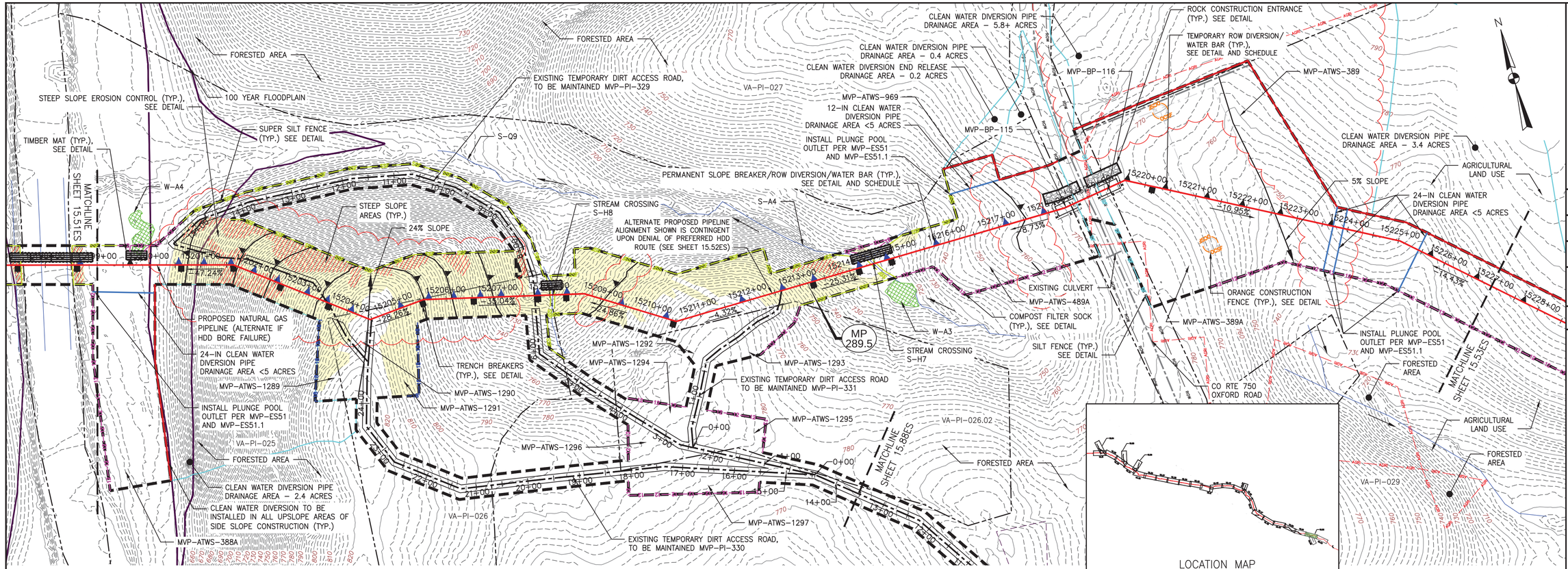
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SHT. NO.	15.51ES OF 15.99ES

REVISION

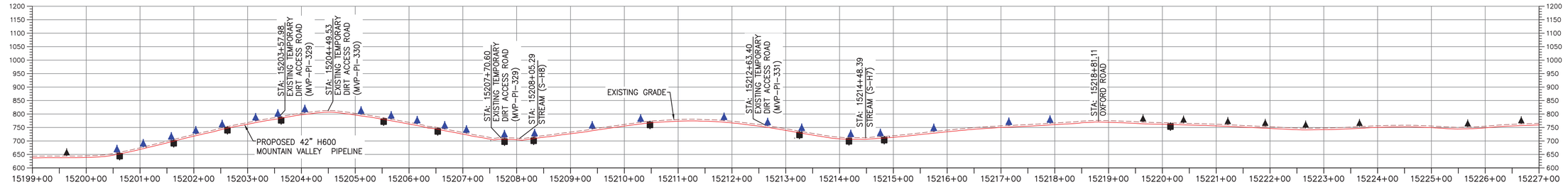
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

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)
- 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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6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
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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.

REVISIONS:

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

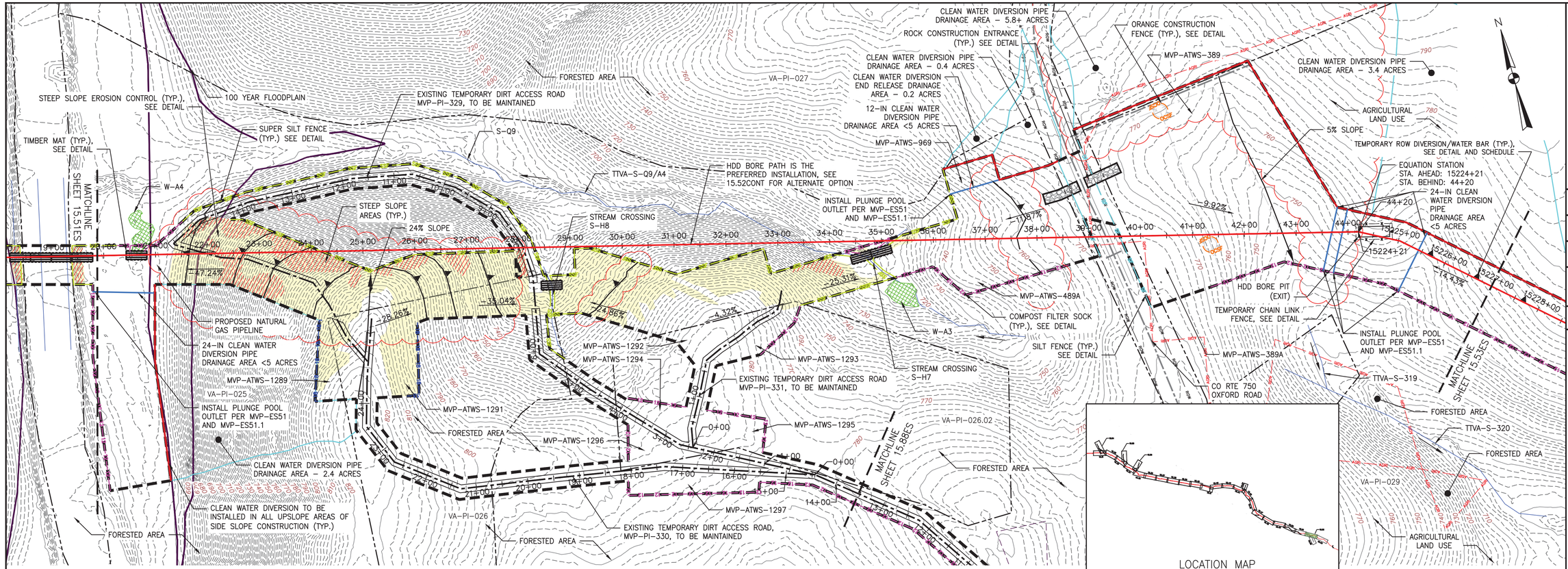
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO. 15.52ESCONT OF	15.99ES

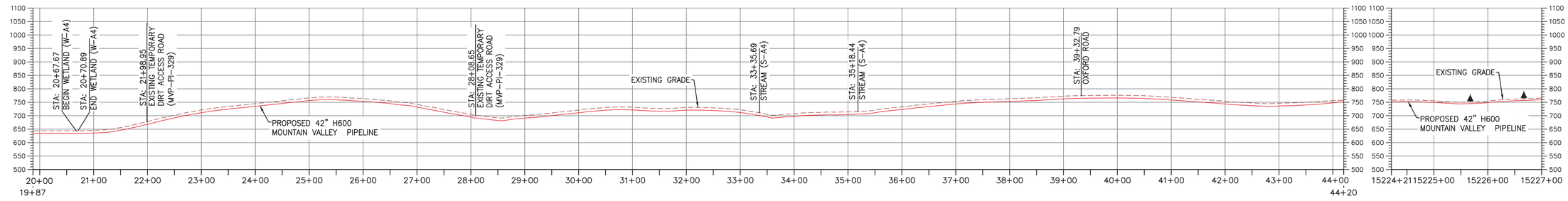
REVISION

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PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
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5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

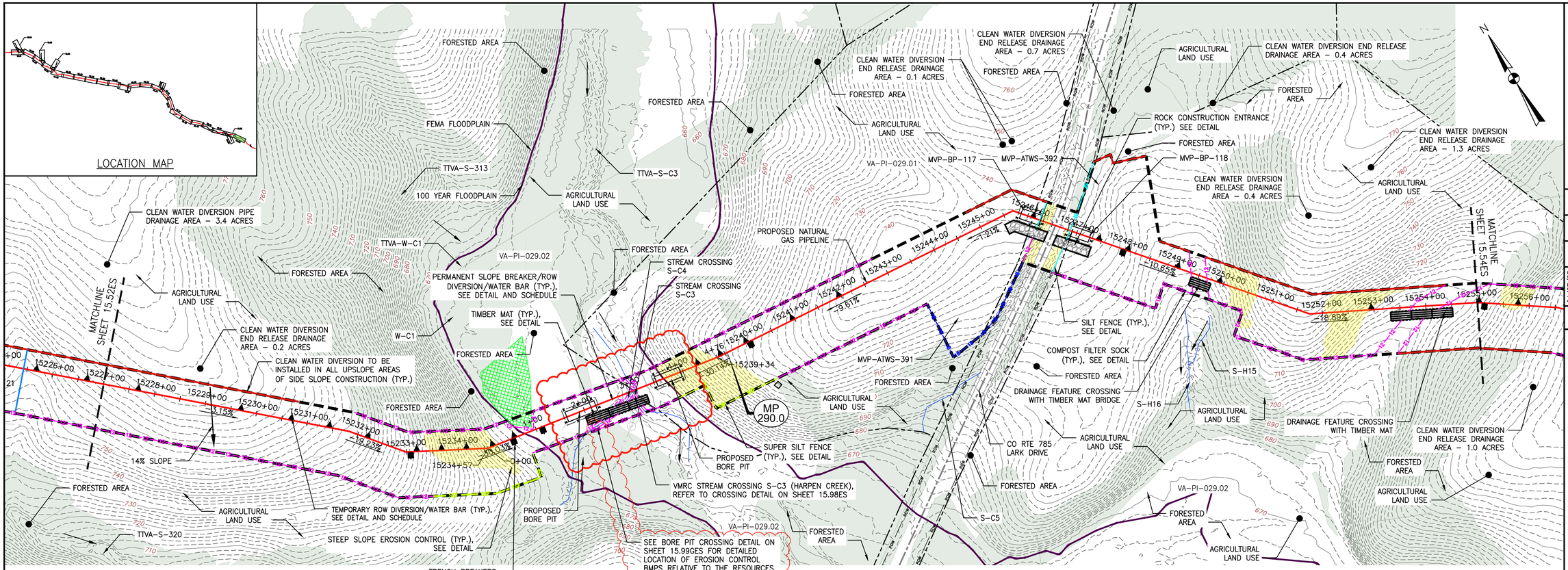
EROSION AND SEDIMENT CONTROL PLANS

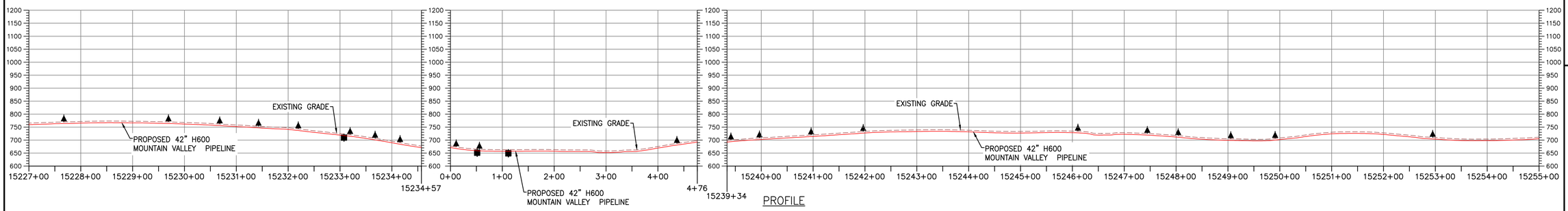
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.52ES OF 15.99ES

REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvania\E&S\ES Version 5.0.0\7157ES15.52(S11).dwg PLOTTED ON: 3/13/2018 10:24 AM PLOTTED BY: Rickabaugh, Greg PLOT FILE: ENVIRONMENTAL_COLOR.ctb





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
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HORIZONTAL SCALE: SCALE: 1" = 100' (100 0 100 200)

VERTICAL SCALE: SCALE: 1" = 200' (200 0 200 400)

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 04–07–2023

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	09/10/20	JK	RE	DW	VMRC CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
5	03/04/18	JWK	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

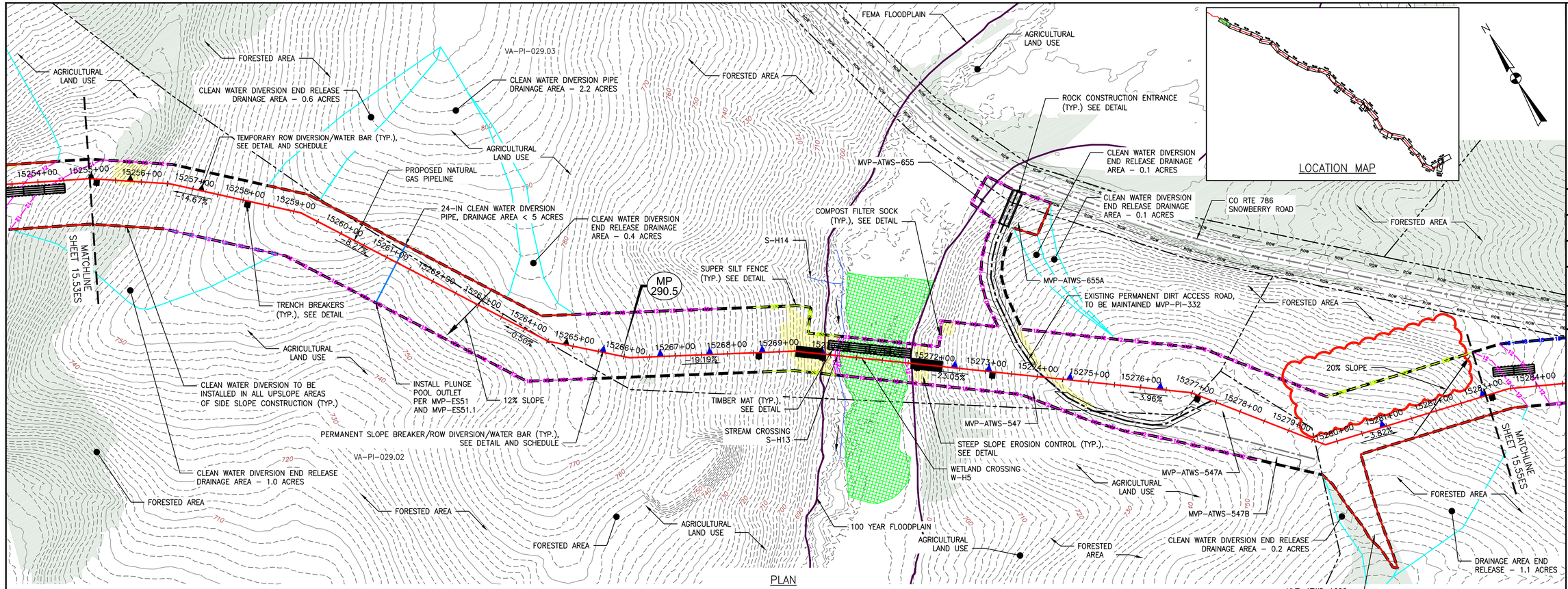
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.53ES OF 15.99ES

REVISION

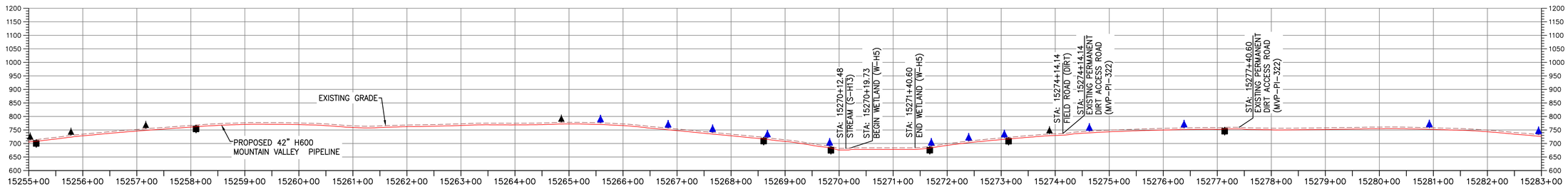
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	01/11/21	JJZ	RE	DW	ADDRESS VADEQ COMMENTS
6	12/14/18	GAR	RE	DW	FIELD MODIFICATION
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

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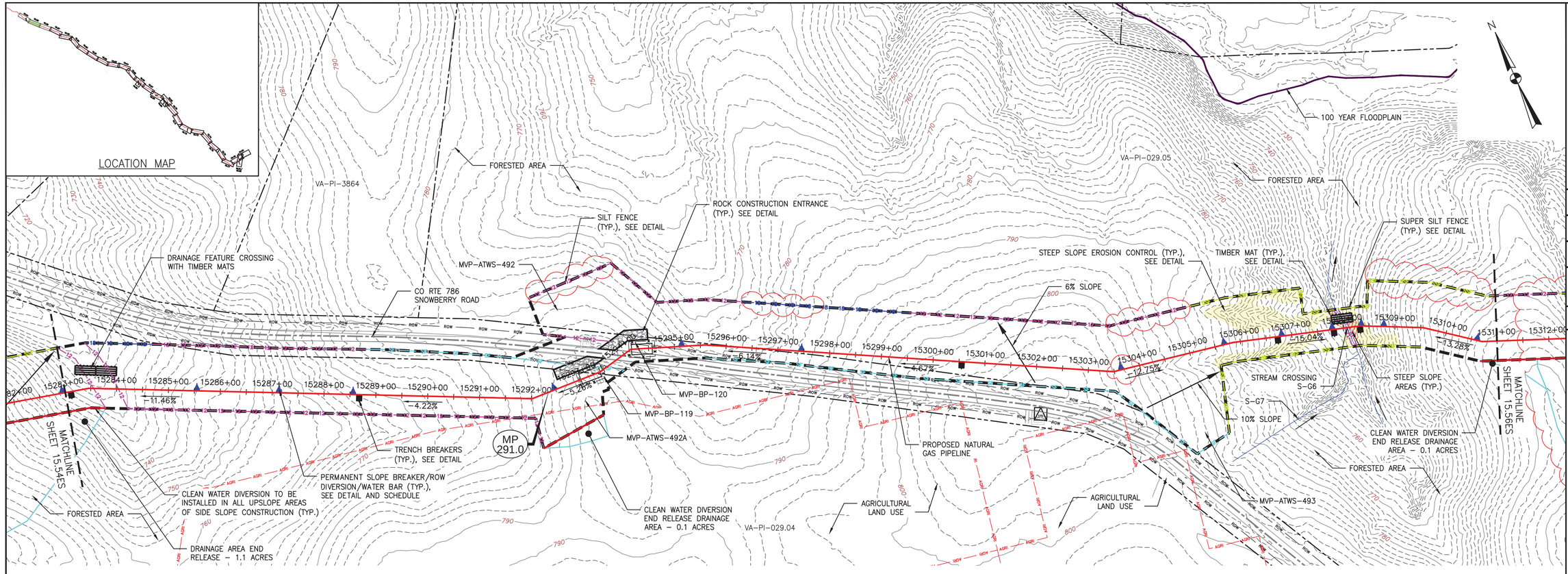
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	JWK
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	01/11/2021
SCALE:	AS SHOWN
REVISION	
SHT. NO.	15.54ES OF 15.99ES

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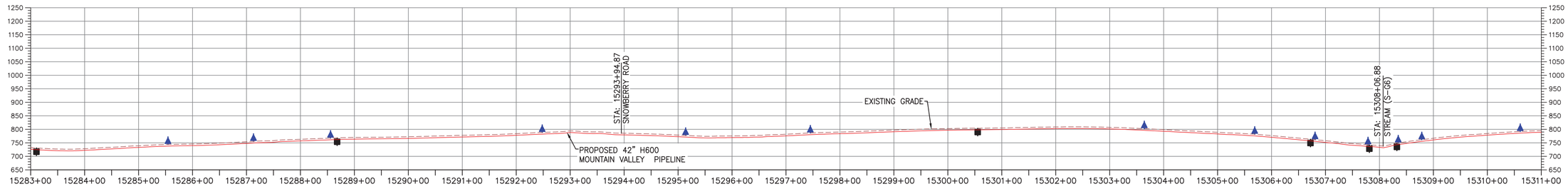
LOCATION MAP



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE

SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

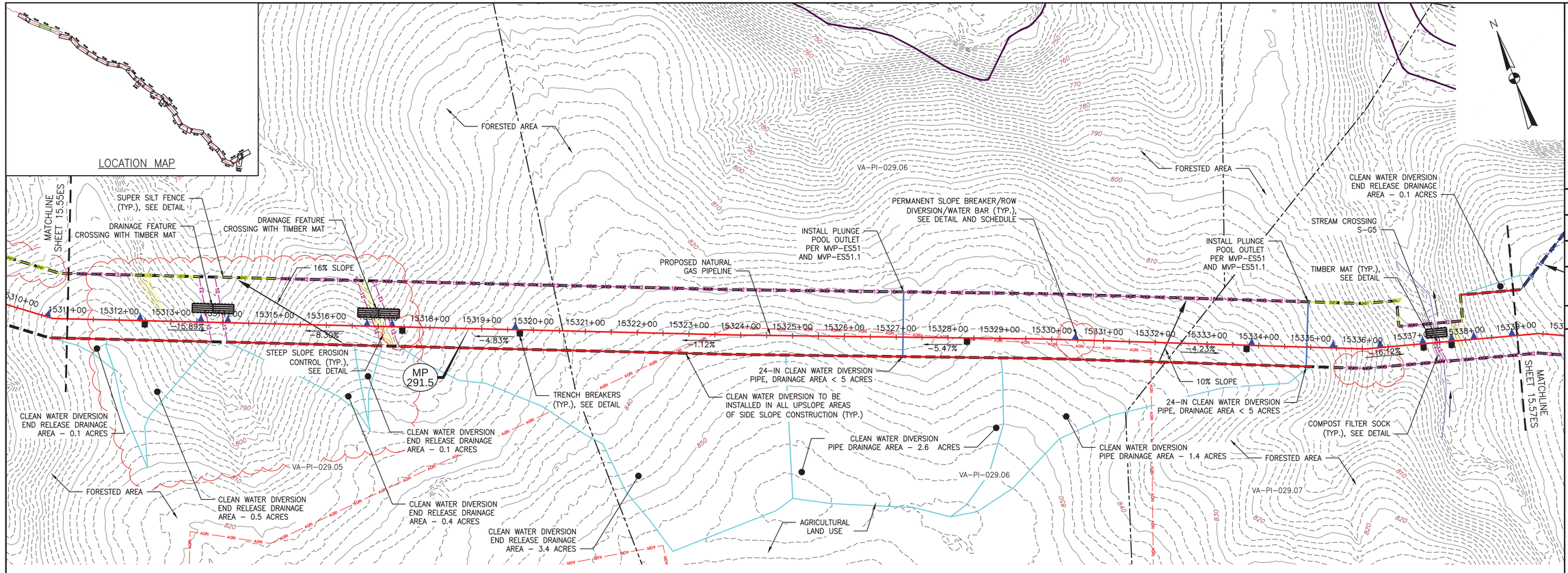
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.55ES OF 15.99ES

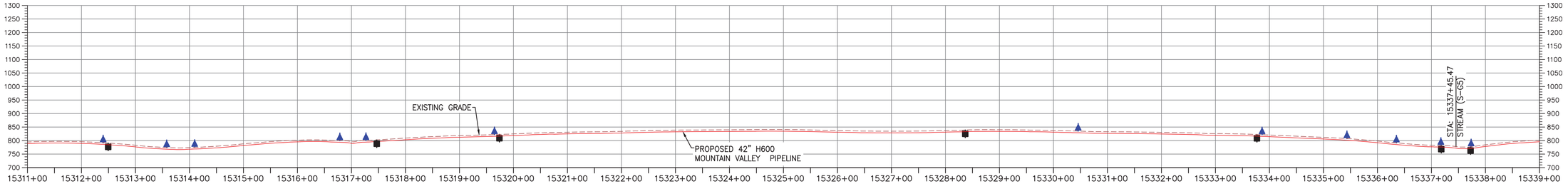
REVISION



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

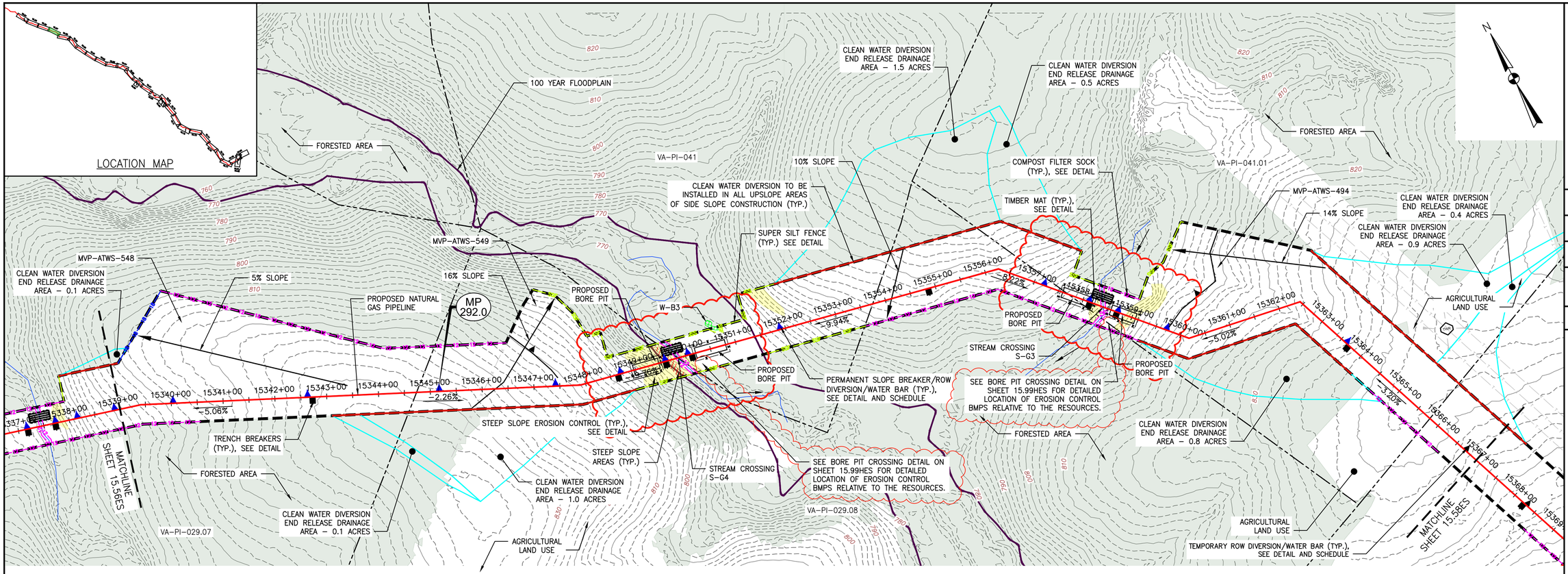
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.56ES OF 15.99ES

REVISION

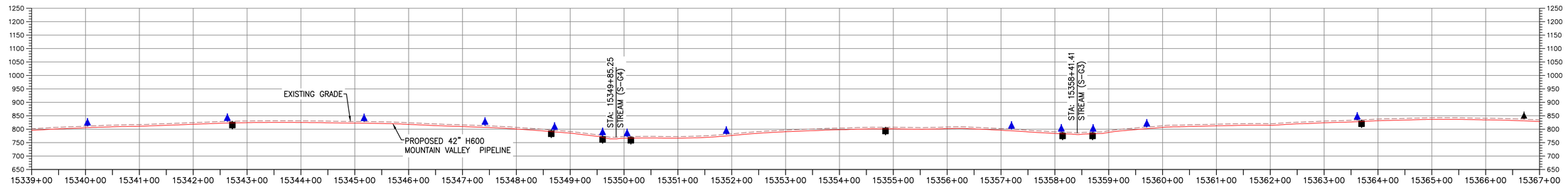
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EGT\7157 – MVP\16 – Pittsylvginia\E&S\ES Version 5.0.0\7157ES15.57(S11).dwg PLOTTED ON: 4/6/2023 12:01 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

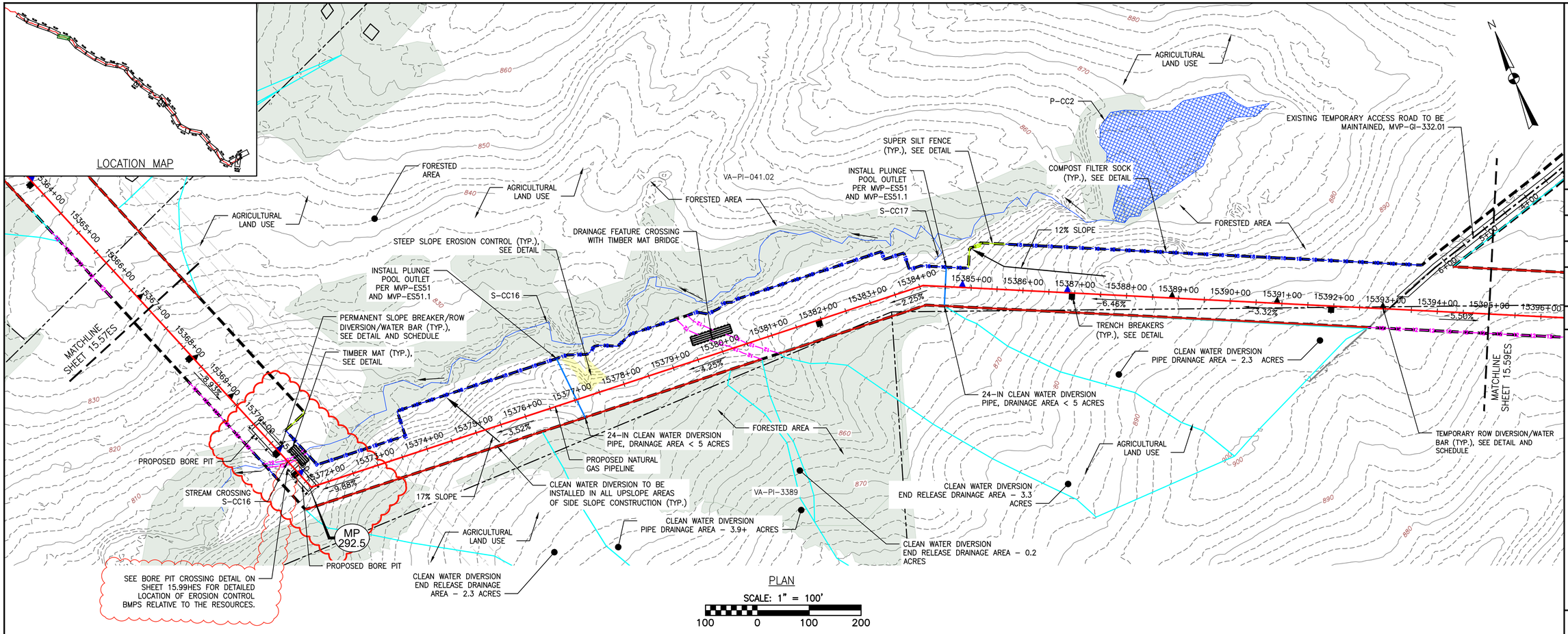
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

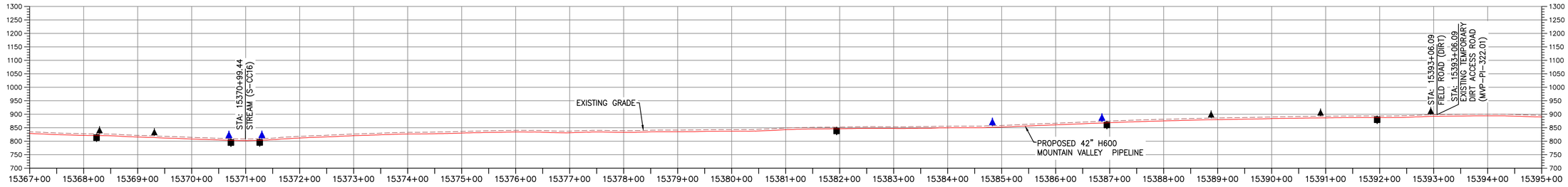
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
4/5/12/2023
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
	– REVISION

SHT. NO. 15.57ES OF 15.99ES





PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 04-07-2023

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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 - MVP\16 - Pittsylvginia\E&S\ES Version 5.0.0\7157ES15.58(S11).dwg PLOTTED ON: 4/6/2023 12:13 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
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Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

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SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

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2200 ENERGY DRIVE
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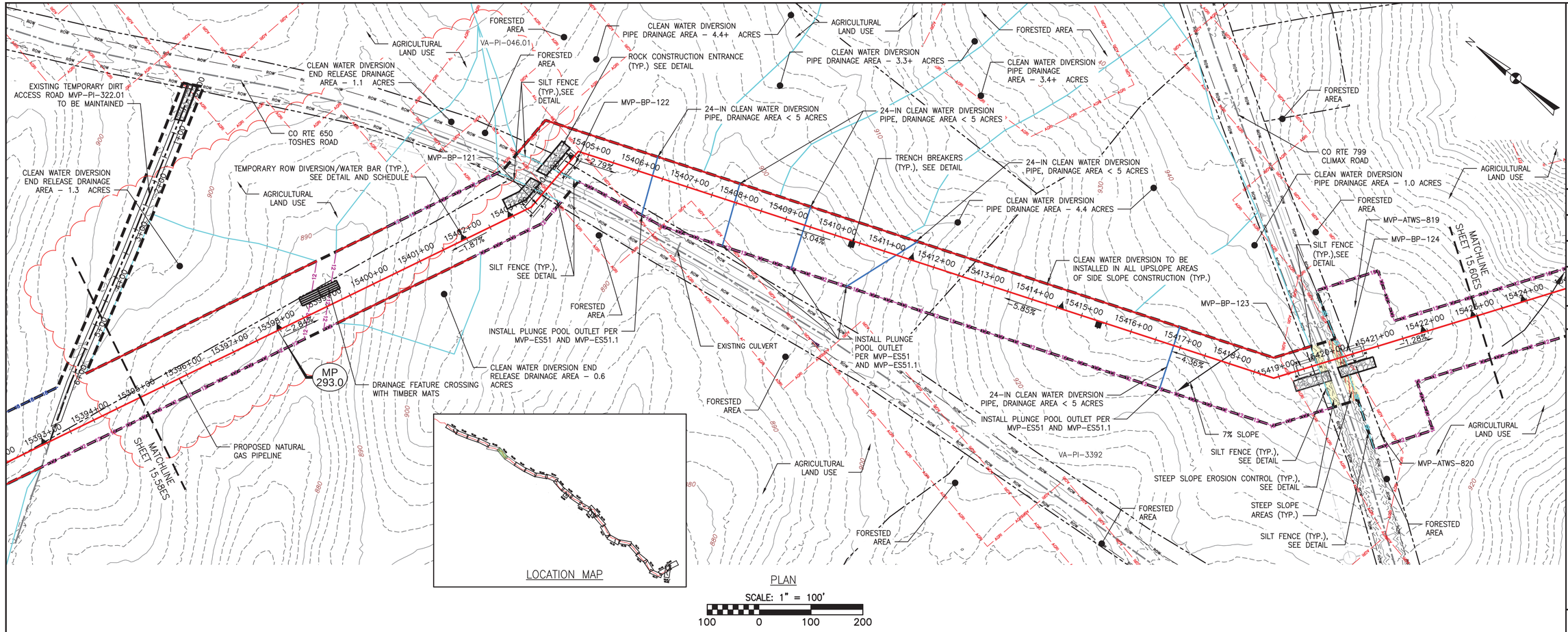
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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.58ES OF 15.99ES

– REVISION

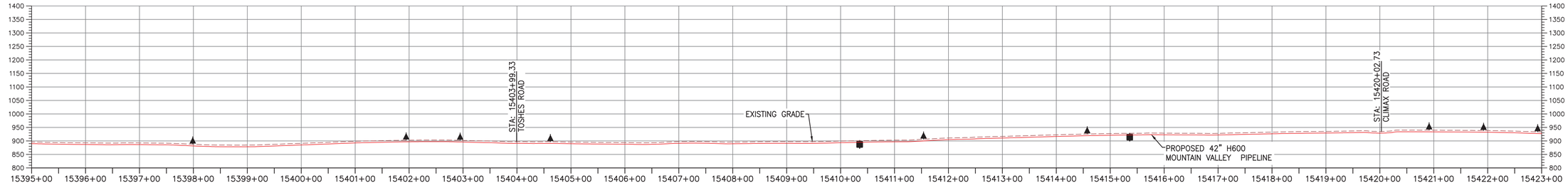


LOCATION MAP

PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

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100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

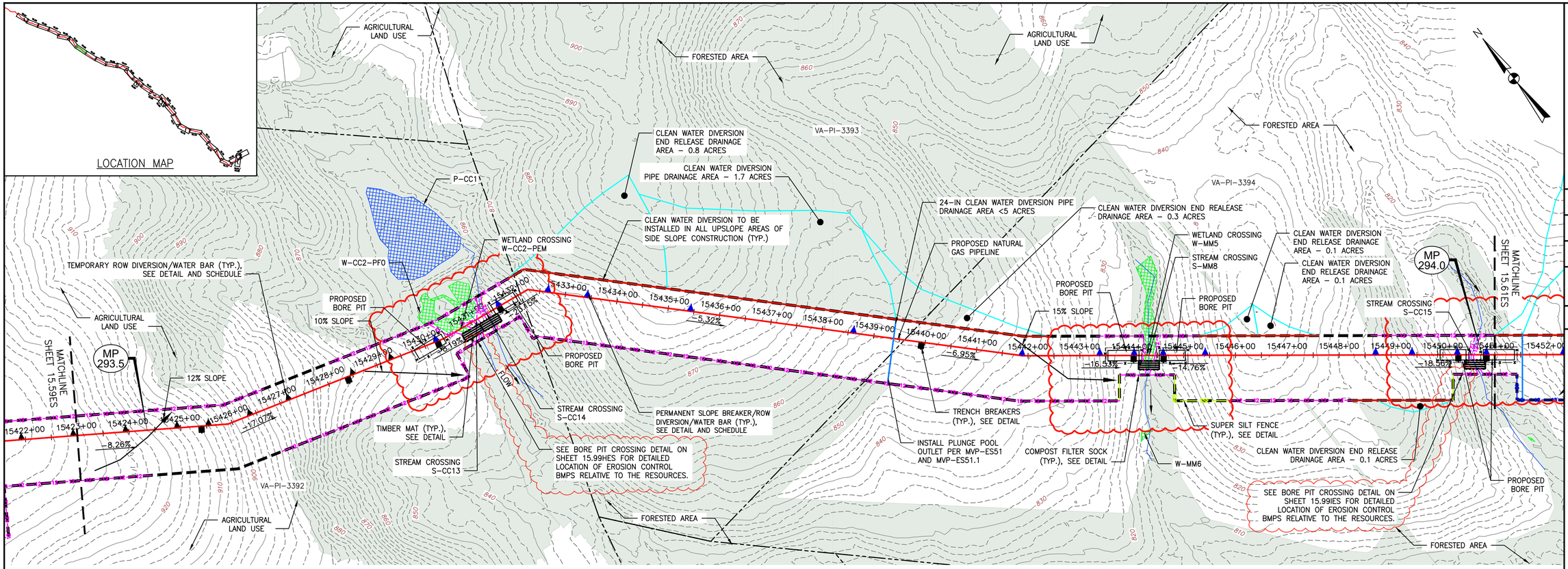
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.59ES OF 15.99ES

REVISION

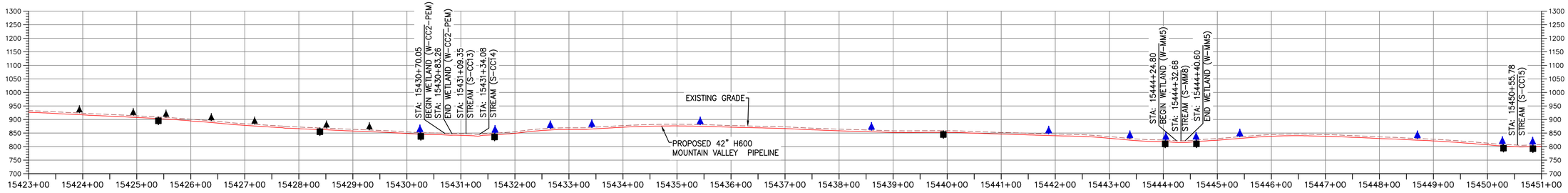
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5)
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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)
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

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NO.:	DATE:	DWN.:	CHK'D.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	06/24/20	JK	RE	DW	CHANGES TO AQUATIC RESOURCES DELINEATIONS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

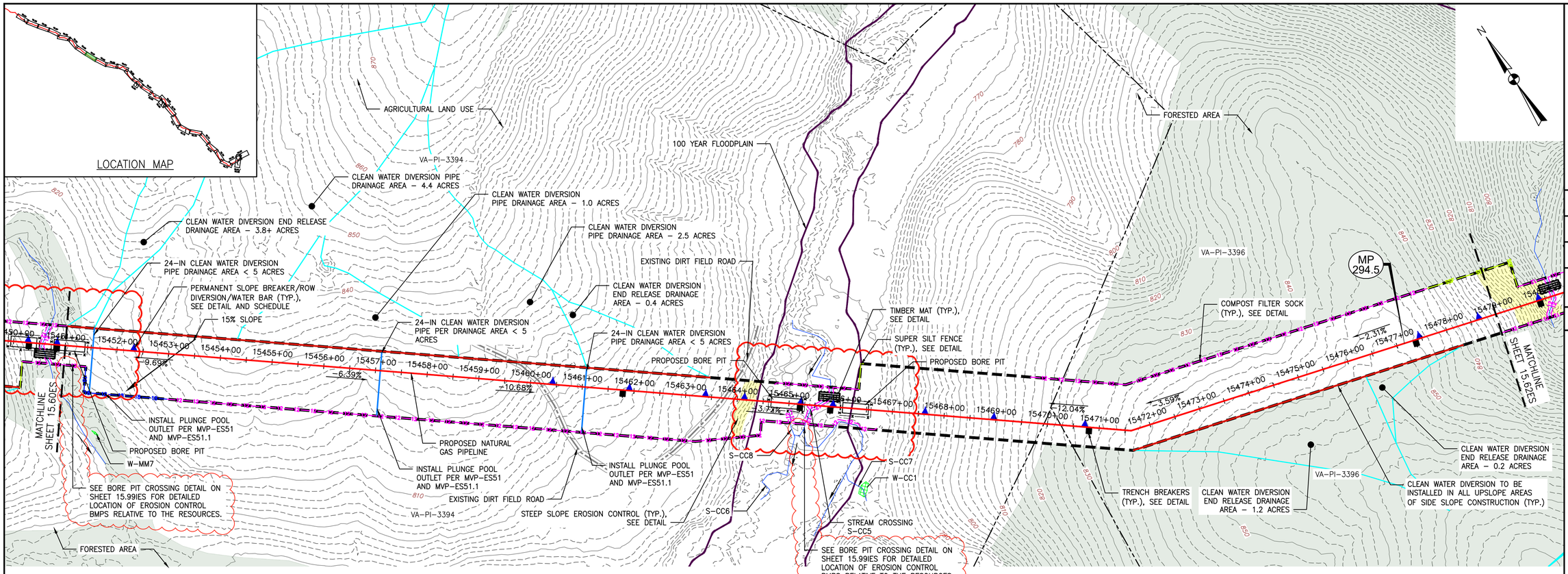
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
05/12/2021
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.60ES OF 15.99ES

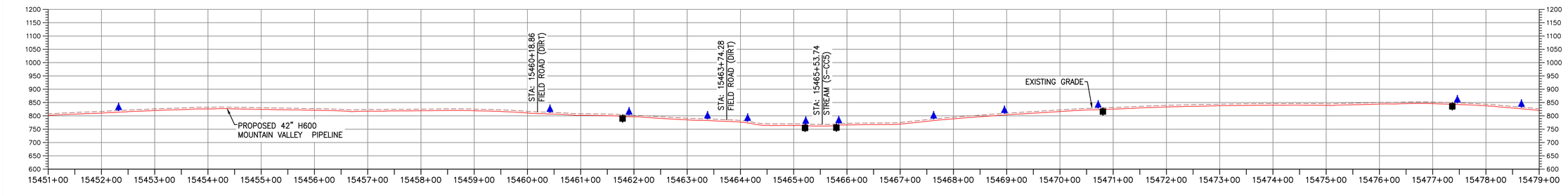
– REVISION

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PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
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- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
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- DRAINAGE AREA BOUNDARY
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIES ONLY TO REVISIONS DATED 04-07-2023

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

TETRA TECH
complex world | CLEAR SOLUTIONS™
661 ANDERSEN DRIVE
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PITTSBURGH, PA 15220

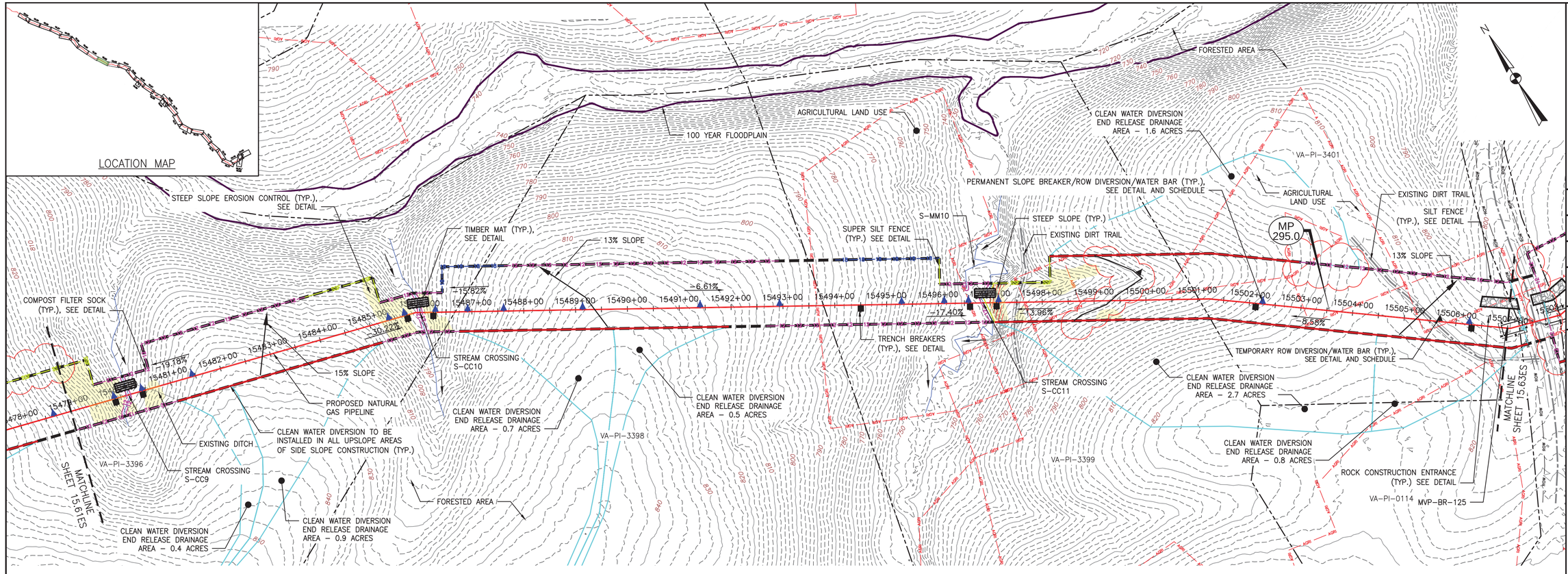
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.61ES OF 15.99ES

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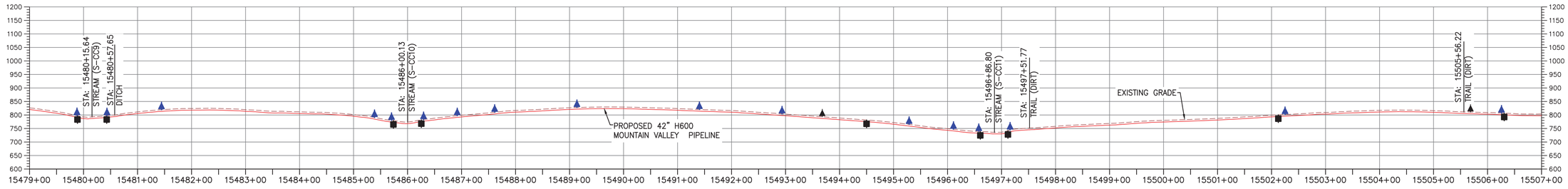
LOCATION MAP



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

LEGEND

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- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- ACID FORMING MATERIAL
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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
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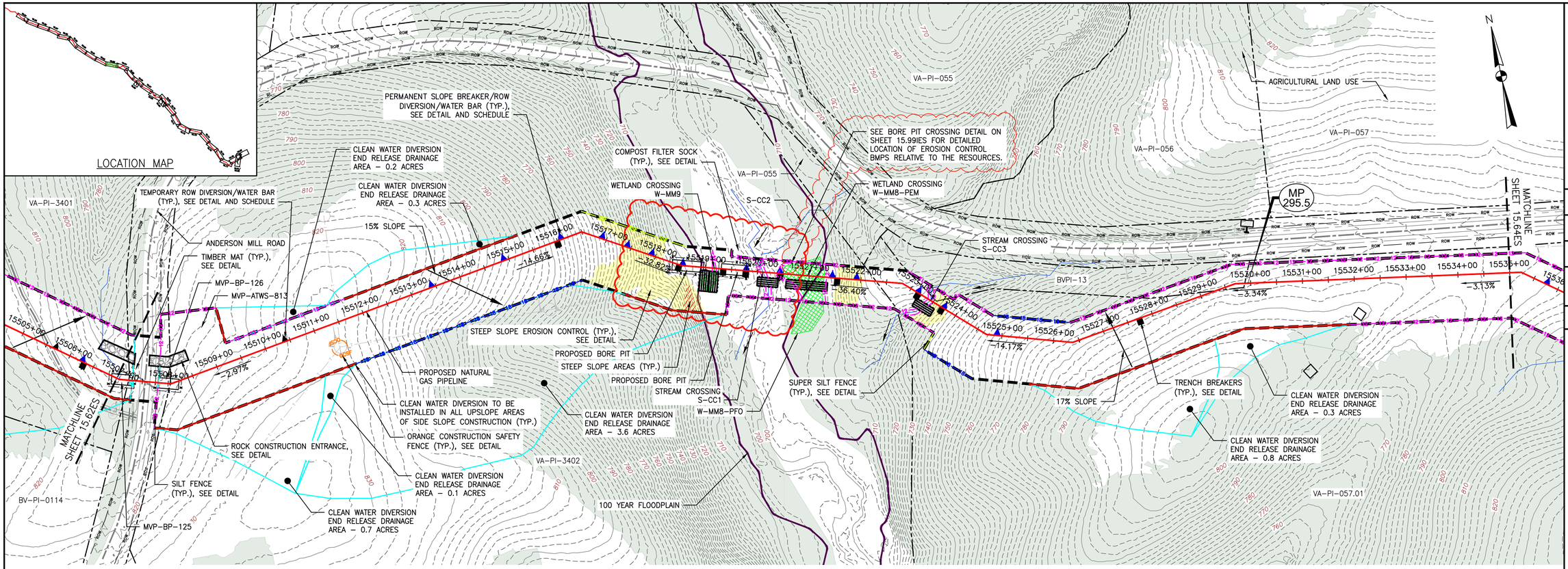
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.62ES OF 15.99ES

REVISION

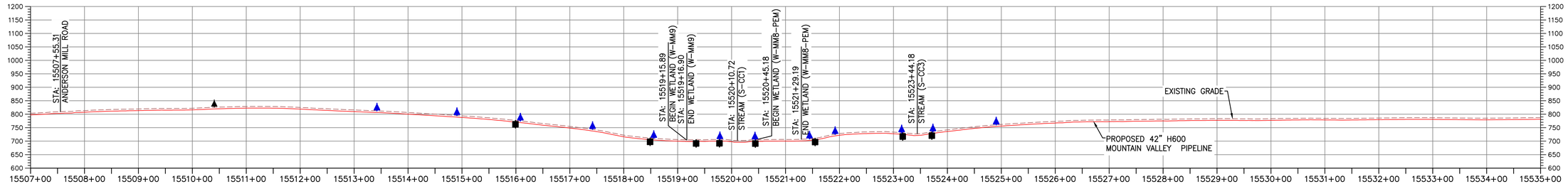
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04–07–2023

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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

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FOSTER PLAZA 7
PITTSBURGH, PA 15220

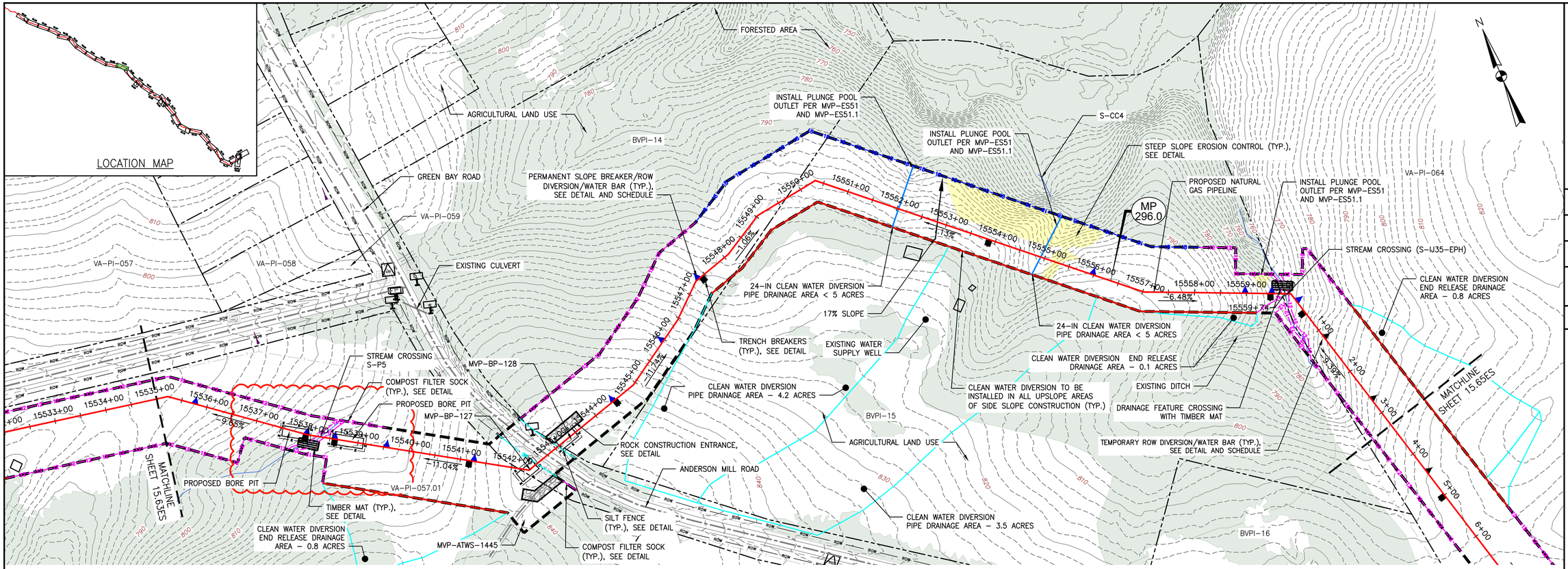
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
05/12/2021
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.63ES OF 15.99ES

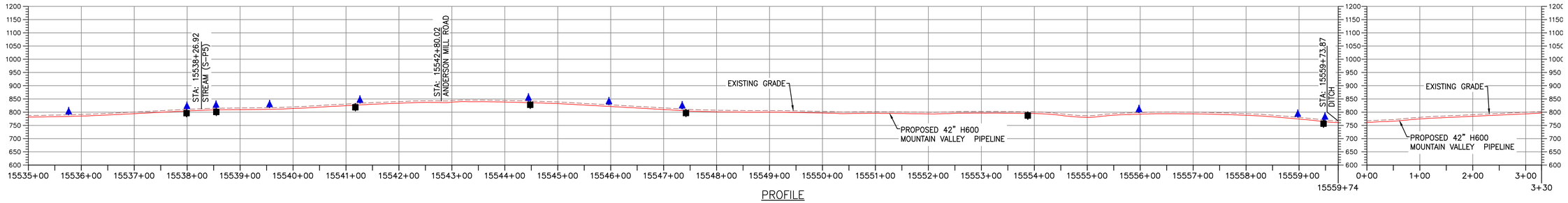
REVISION –

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PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

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
- 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)
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- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- 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)

COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
2/11/2025

THIS SEAL APPLIES ONLY TO REVISIONS DATED 02-01-23

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
2. FLEXTERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
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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.

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 - MVP\16 - Pittsylvania\E&S\ES Version 5.0.0\7157ES15.64(S11).dwg PLOTTED ON: 9/19/2022 8:38 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	02/01/23	GAR	TD	DW	ADDRESS VADEQ COMMENTS ON CROSSING METHOD CHANGE

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE

SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

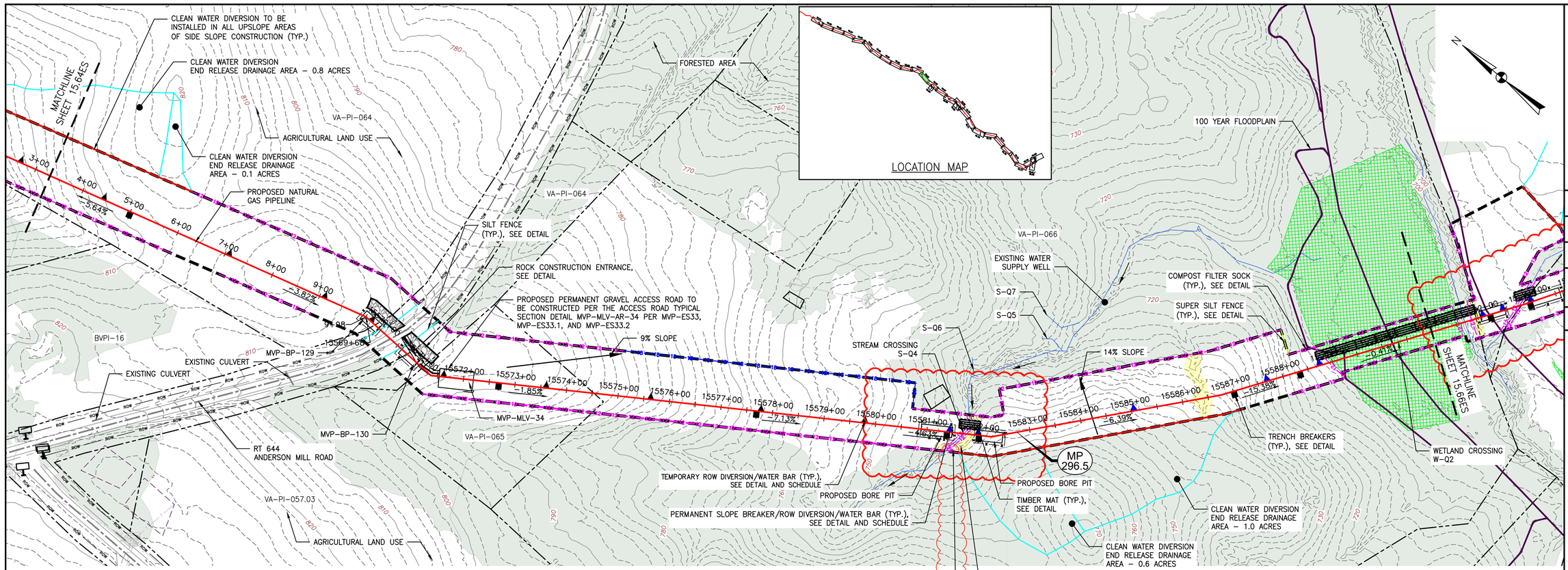
TETRA TECH
complex world | CLEAR SOLUTIONS™
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

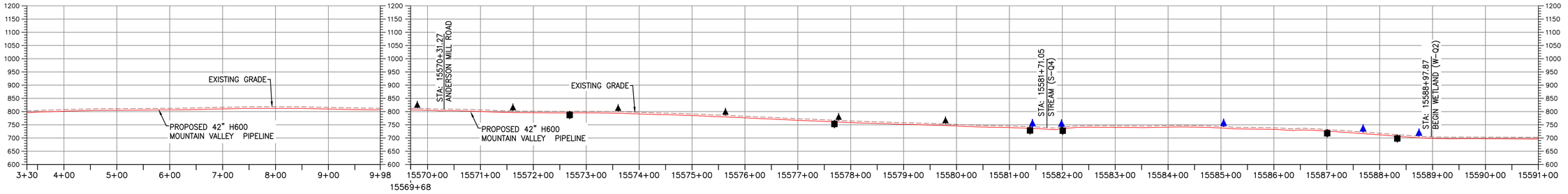
DRAWN BY:	GAR
CHECKED BY:	TD
APPROVED BY:	DW
DATE:	02/01/2023
SCALE:	AS SHOWN
SHT. NO.	15.64ES OF 15.99ES

REVISION –



PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: 1" = 100'

VERTICAL SCALE: 1" = 200'

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
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5)
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- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
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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)

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 04-07-2023

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

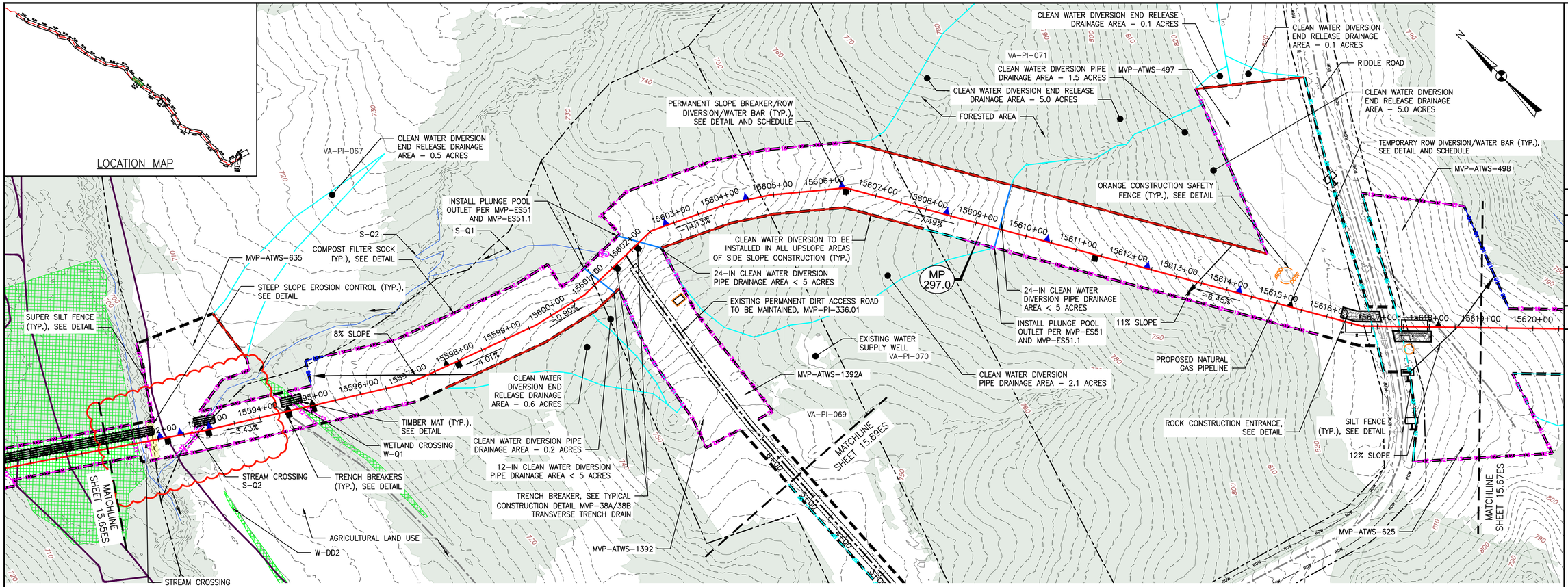
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
05/12/2021
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
SHT. NO.	15.65ES OF 15.99ES

REVISION

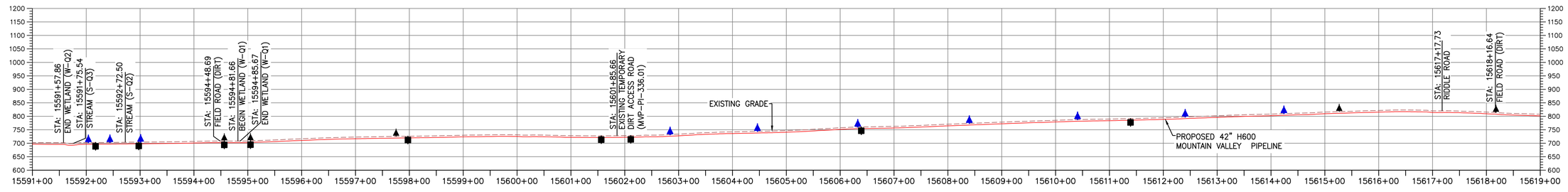
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
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COMMONWEALTH OF VIRGINIA
11/29/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPIIES ONLY TO REVISIONS DATED 11–29–2023

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	11/29/23	JJZ	IHH	DCW	S–Q2 CROSSING CHANGED TO OPEN CUT

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

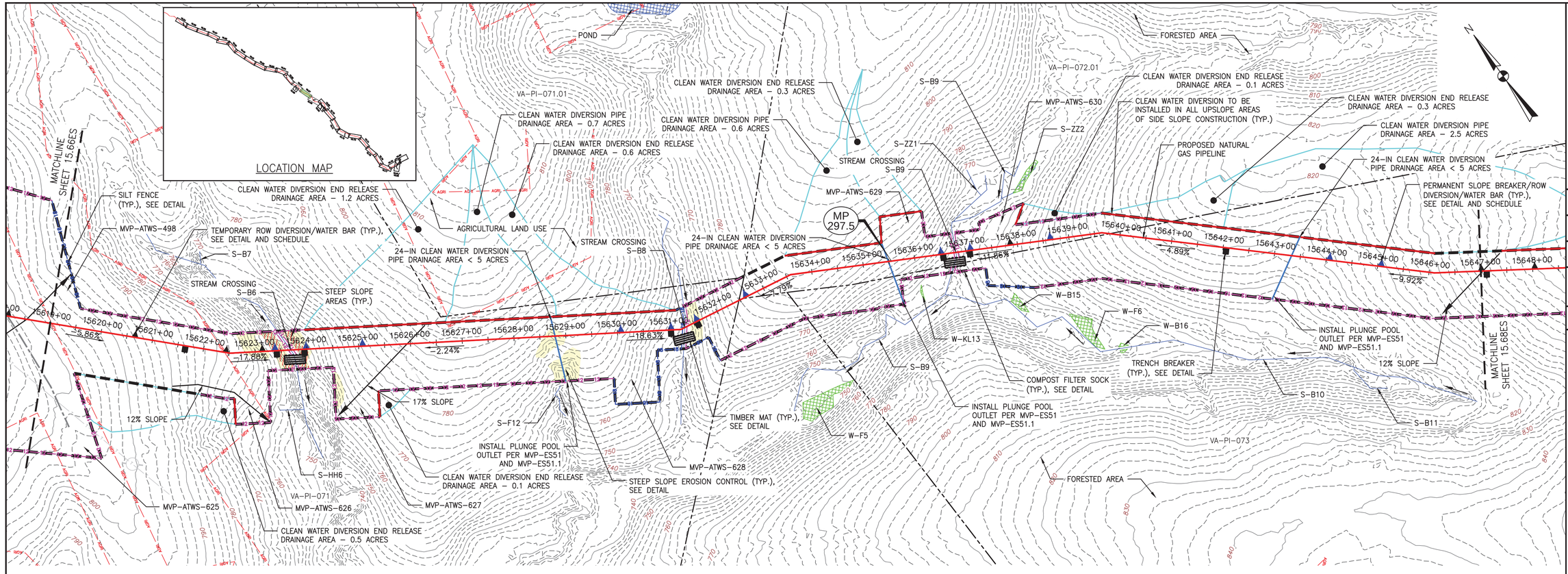
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
11/29/2023

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	11/29/2023
SCALE:	AS SHOWN
SHT. NO.	15.66ES OF 15.99ES

– REVISION

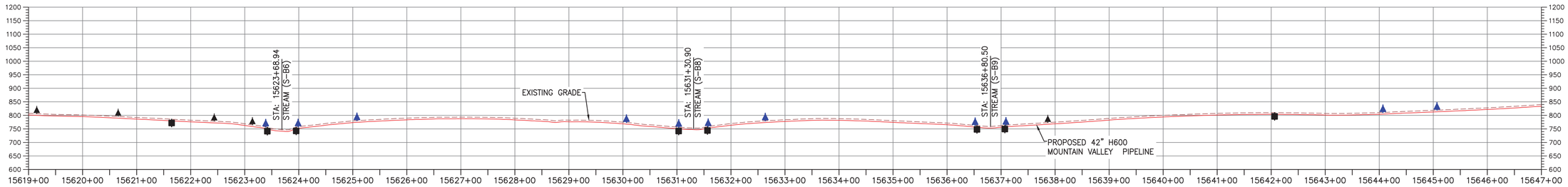
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

LEGEND

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- WETLAND
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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

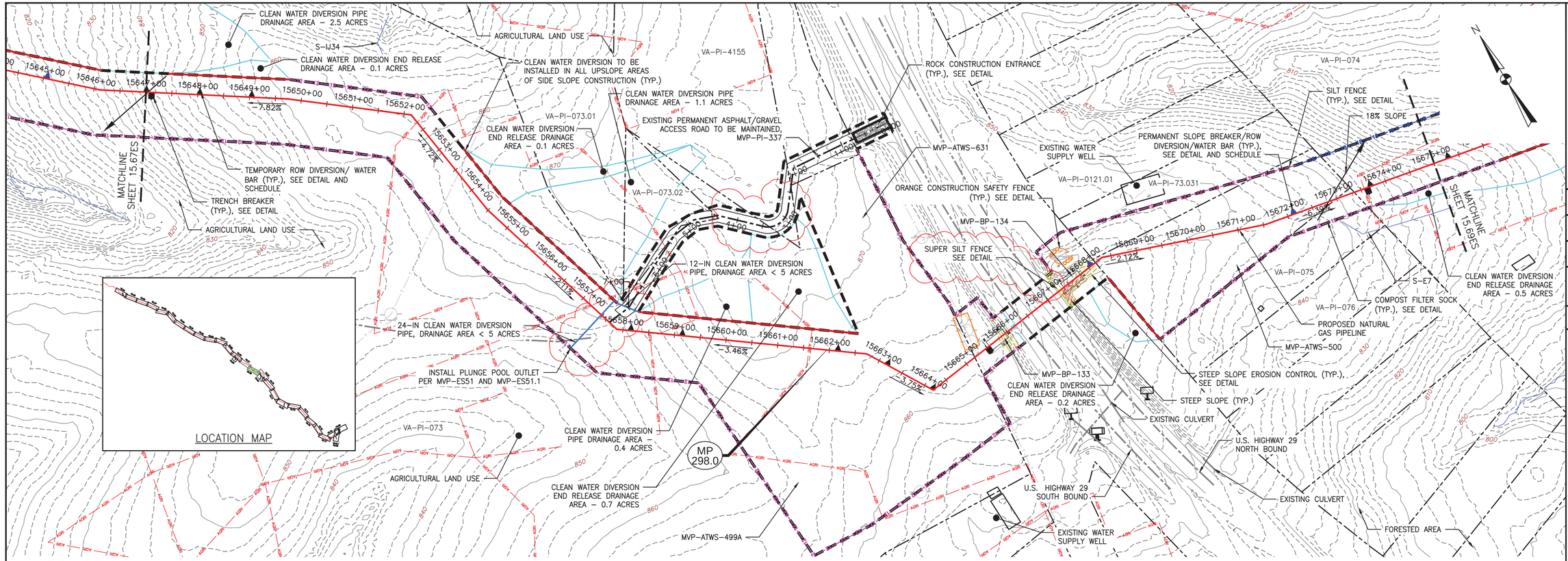
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	

SHT. NO. 15.67ES OF 15.99ES

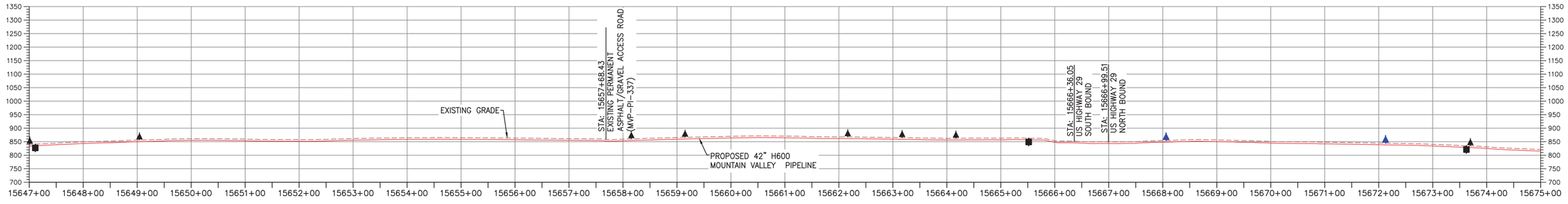
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL (ANST)
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- ACID FORMING MATERIAL (AFM)
- AGRICULTURAL LAND USE BOUNDARY (AGRI)
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5) (SF)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2) (SSF)
- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3) (RFD)
- ORANGE CONSTRUCTION SAFETY FENCE (OCSF)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) (12)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) (18)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) (24)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

100 0 100 200 200 0 200 400

- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
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1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

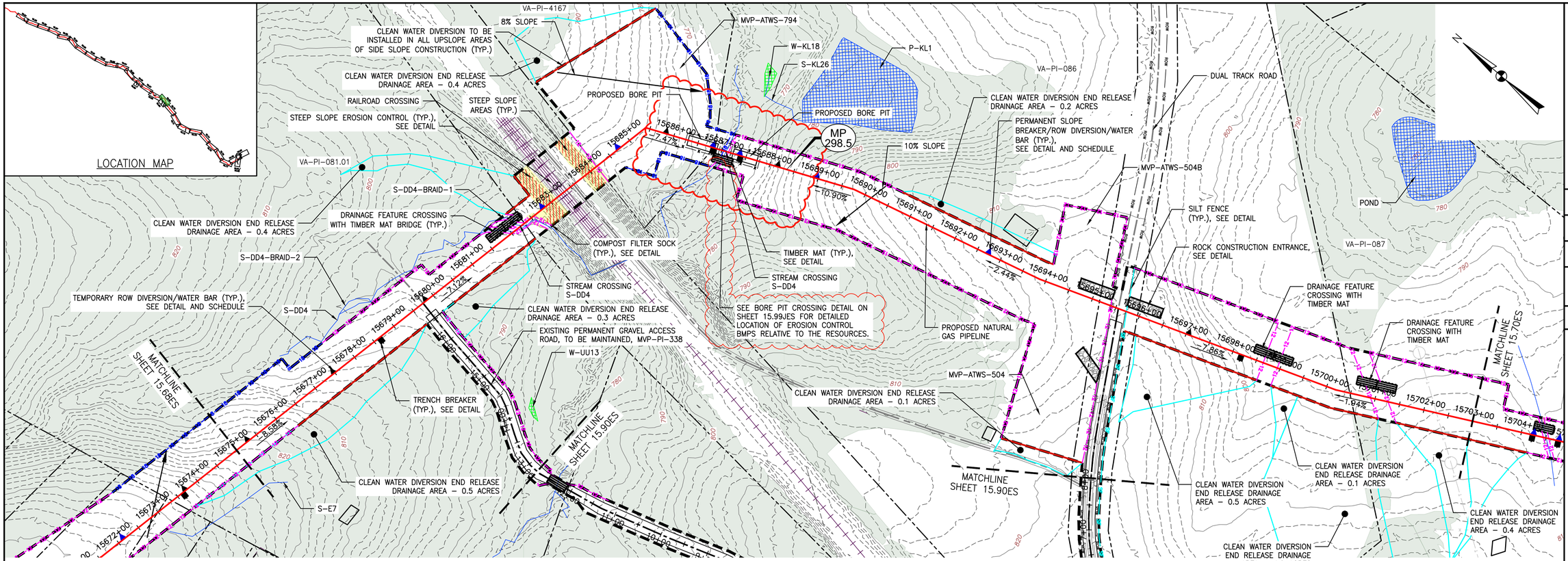
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.68ES OF 15.99ES

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LEGEND

- PROPOSED LIMIT OF DISTURBANCE
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- PROPOSED SILT FENCE (SEE NOTE 5)
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COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
THIS SEAL APPIIES ONLY TO REVISIONS DATED 04–07–2023

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NO.:	DATE:	DWN.:	CHK'D:	APPD.:	DESCRIPTION:
8	04/19/18	KAL	RE	BW	FIELD MODIFICATION
7	04/30/18	KAL	RE	DW	FIELD MODIFICATION
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

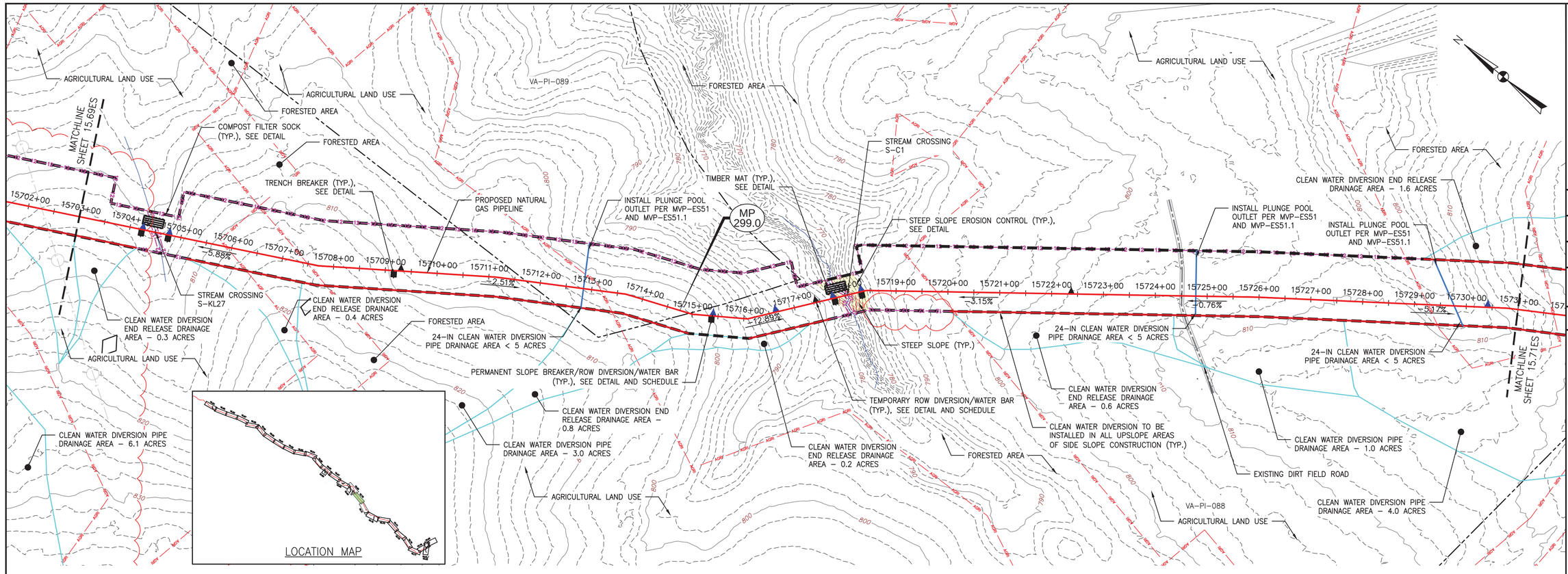
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
05/12/2023

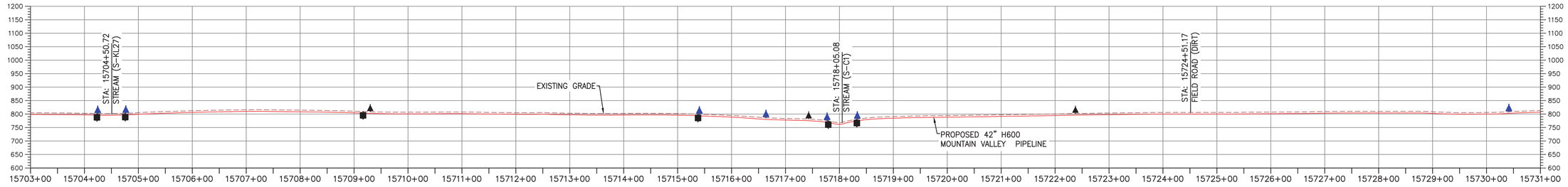
DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.69ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE

SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.70ES OF 15.99ES

REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 - MVP\16 - Pittsylvania\E&S\ES Version 5.0.0\7157ES15.70(S11).dwg PLOTTED ON: 3/2/2018 9:41 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

CLEAN WATER DIVERSION PIPE DRAINAGE AREA – 1.6 ACRES

CLEAN WATER DIVERSION TO BE INSTALLED IN ALL UPSLOPE AREAS OF SIDE SLOPE CONSTRUCTION (TYP.)

EXISTING DIRT FIELD ROAD

COMPOST FILTER SOCK (TYP.), SEE DETAIL

MVP-ATWS-399

INSTALL PLUNGE POOL OUTLET PER MVP-ES51 AND MVP-ES51.1

EQUATION STATION
STA. AHEAD: 0+00
STA. BEHIND: 15733+24

MATCHLINE SHEET 15.70ES

TRENCH BREAKER (TYP.), SEE DETAIL

PROPOSED NATURAL GAS PIPELINE

MP 299.5

5% SLOPE

AGRICULTURAL LAND USE

CLEAN WATER DIVERSION PIPE DRAINAGE AREA – 4.0 ACRES

PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (TYP.), SEE DETAIL AND SCHEDULE

24-IN CLEAN WATER DIVERSION PIPE DRAINAGE AREA < 5 ACRES

PROPOSED PERMANENT GRAVEL ACCESS ROAD MVP-MLV-35 PER MVP-ES33, MVP-ES33.1, AND MVP-ES33.2

CLEAN WATER DIVERSION PIPE DRAINAGE AREA – 4.5 ACRES

MVP-ATWS-399A

FORESTED AREA

LOCATION MAP

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 5.0 ACRES

EQUATION STATION
STA. AHEAD: 15749+71
STA. BEHIND: 16+46

MVP-ATWS-400

SILT FENCE (TYP.), SEE DETAIL

MVP-BP-135

MVP-MLV-AR-35

MVP-BR-136

MVP-ATWS-400A

ROCK CONSTRUCTION ENTRANCE, SEE DETAIL

RT. 691 MILL CREEK ROAD

MVP-ATWS-505

MVP-ATWS-505A

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 1.6 ACRES

EXISTING TEMPORARY DIRT ACCESS ROAD TO BE MAINTAINED, MVP-PI-339

CLEAN WATER DIVERSION END RELEASE DRAINAGE AREA – 0.3 ACRES

EXISTING WATER SUPPLY WELL

AGRICULTURAL LAND USE

MVP-ATWS-1312

MVP-ATWS-1313

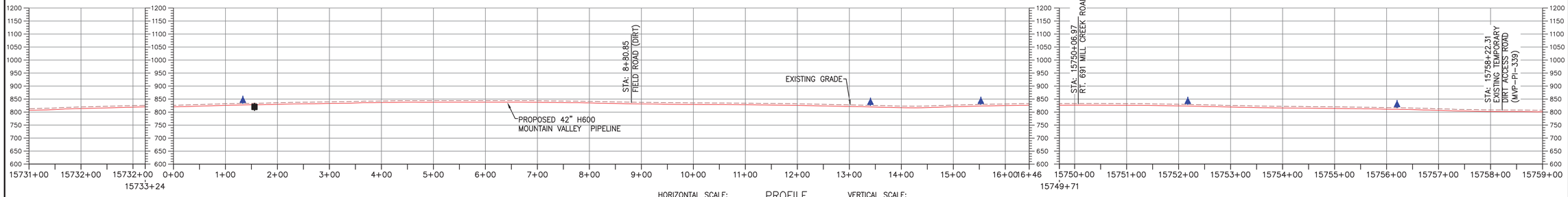
MATCHLINE SHEET 15.72ES

VA-PI-090

VA-PI-091

VA-PI-092

PLAN
SCALE: 1" = 100'
100 0 100 200



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

LEGEND

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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

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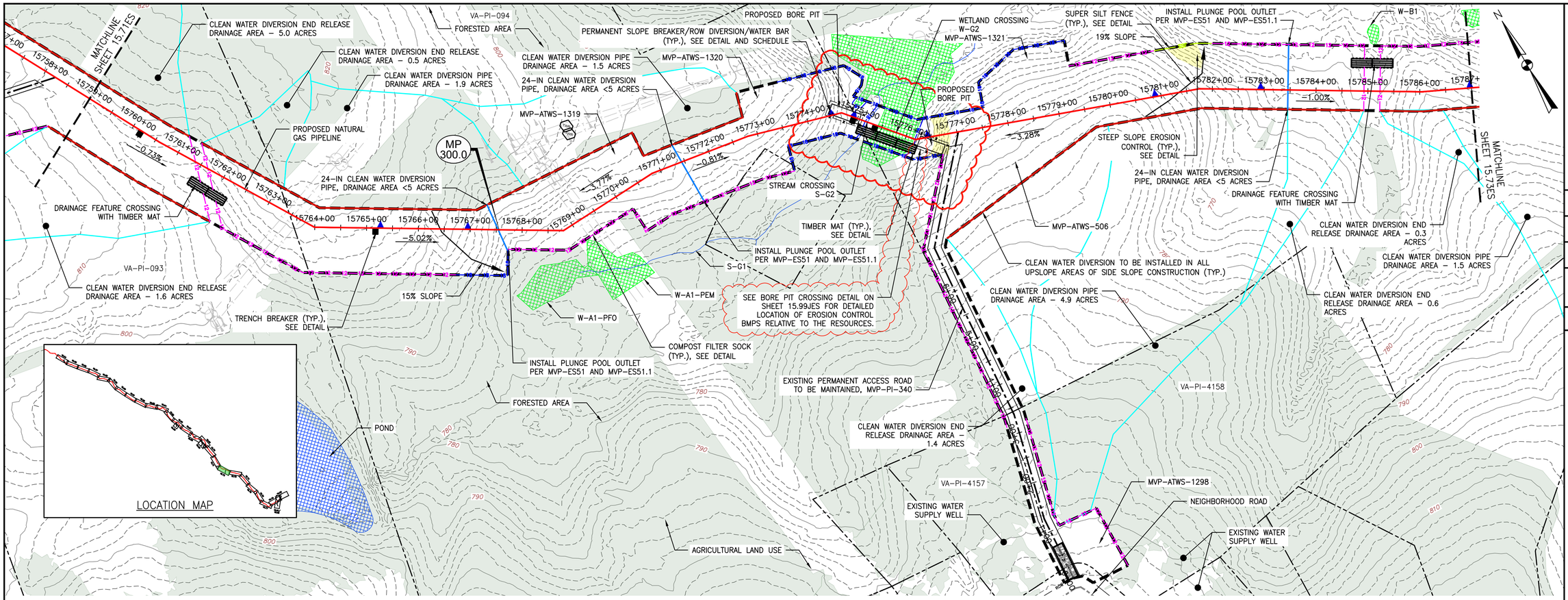
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5

SHT. NO. 15.71ES OF 15.99ES

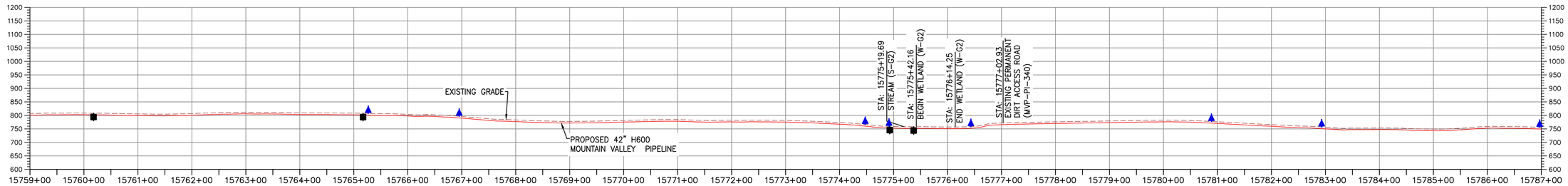
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

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VERTICAL SCALE: SCALE: 1" = 200'

100 0 100 200 200 0 200 400

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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)
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- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)

COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
6/16/23

THIS SEAL APPIIES ONLY TO REVISIONS DATED 06-16-2023

NOTES:

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5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
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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.

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	06/16/23	JJZ	IHH	DCW	ADDRESS VADEQ COMMENTS ON BORE PITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

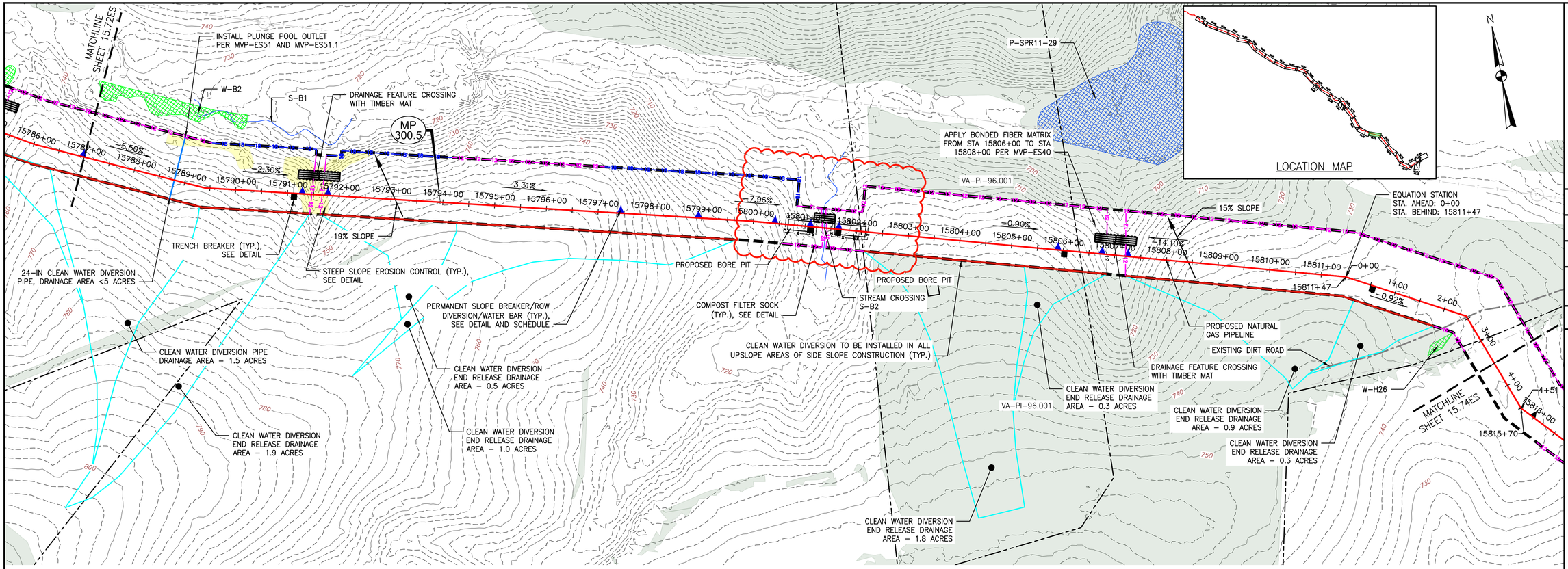
TETRA TECH
complex world | CLEAR SOLUTIONS™
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
6/12/2023

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	06/16/2023
SCALE:	AS SHOWN
SHT. NO.	15.72ES OF 15.99ES

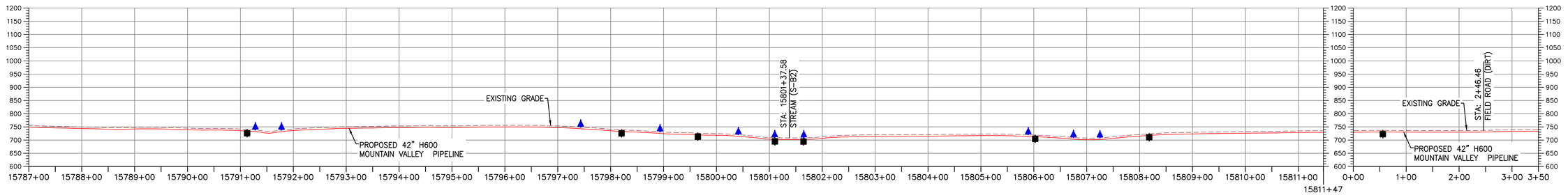
REVISION



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
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COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
3/11/2025

THIS SEAL APPLIES ONLY TO REVISIONS DATED 02-01-23

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6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	02/01/23	GAR	TD	DW	ADDRESS VADEQ COMMENTS ON CROSSING METHOD CHANGE

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

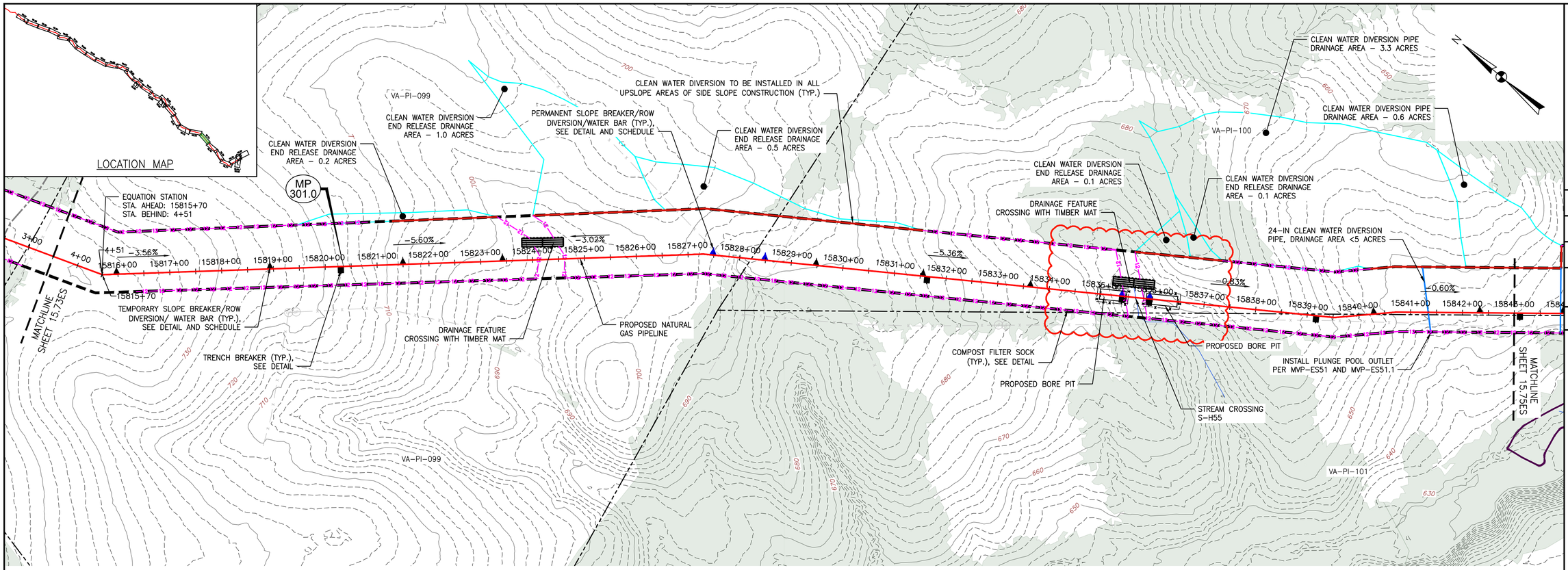
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

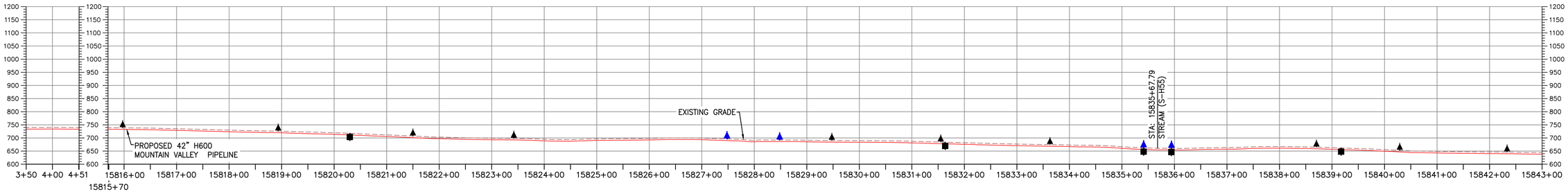
DRAWN BY:	GAR
CHECKED BY:	TD
APPROVED BY:	DW
DATE:	02/01/2023
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.73ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
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- EXISTING COUNTY LINE
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COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
2/1/2023

THIS SEAL APPLIES ONLY TO REVISIONS DATED 02-01-23

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–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	02/01/23	GAR	TD	DW	ADDRESS VADEQ COMMENTS ON CROSSING METHOD CHANGE

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

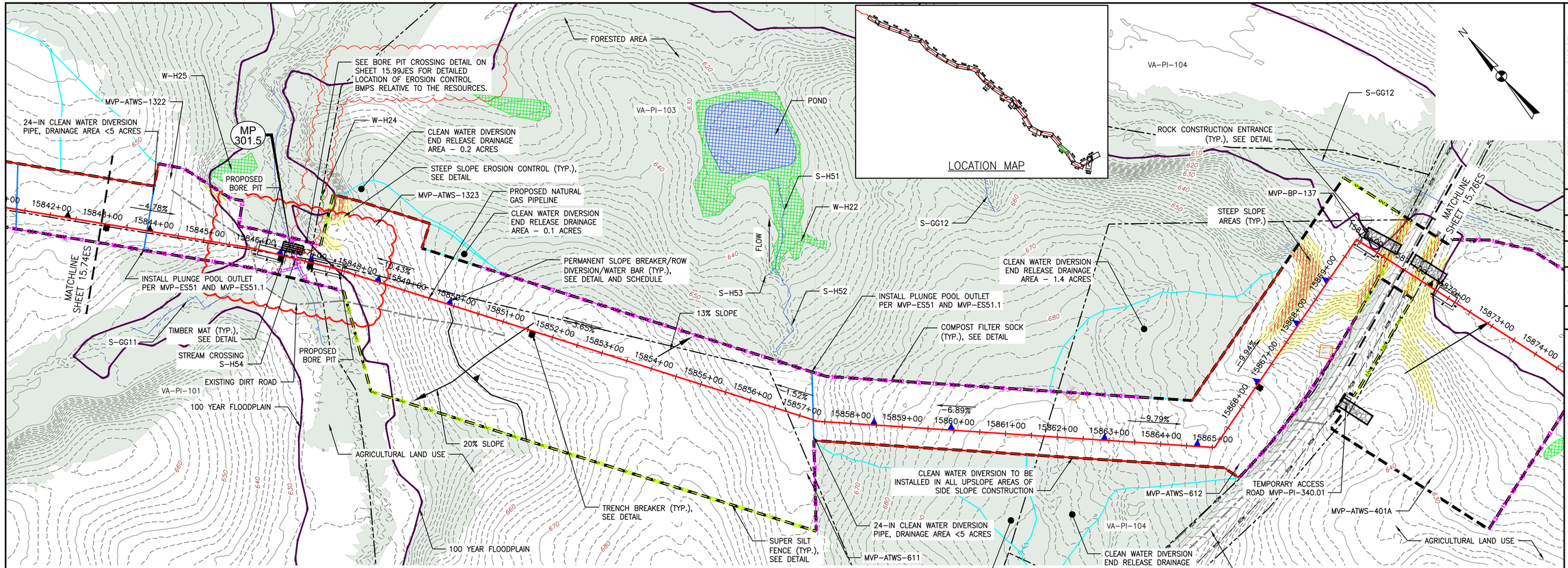
TETRA TECH
complex world | CLEAR SOLUTIONS™
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
05/12/2021

DRAWN BY:	GAR
CHECKED BY:	TD
APPROVED BY:	DW
DATE:	02/01/2023
SCALE:	AS SHOWN
SHT. NO.	15.74ES OF 15.99ES

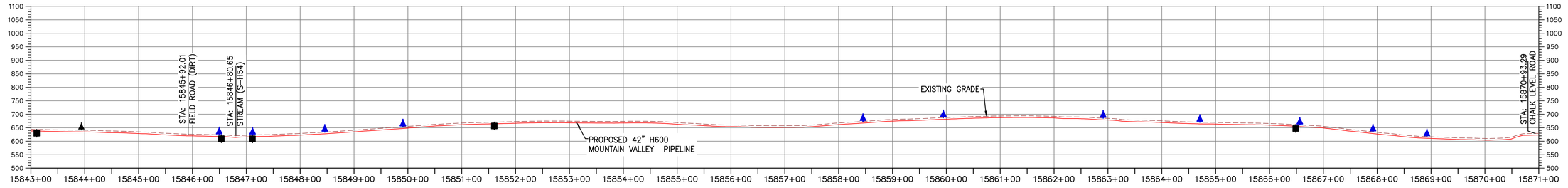
– REVISION



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'

100 0 100 200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
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- WETLAND
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- EXISTING FOREST
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COMMONWEALTH OF VIRGINIA
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER
6/16/23

THIS SEAL APPIIES ONLY TO REVISIONS DATED 06-16-2023

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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvania\E&S\ES Version 5.0.0\7157ES15.75(S11).dwg PLOTTED ON: 6/15/2023 10:33 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	06/16/23	JJZ	IHH	DCW	ADDRESS VADEQ COMMENTS ON BORE PITS
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

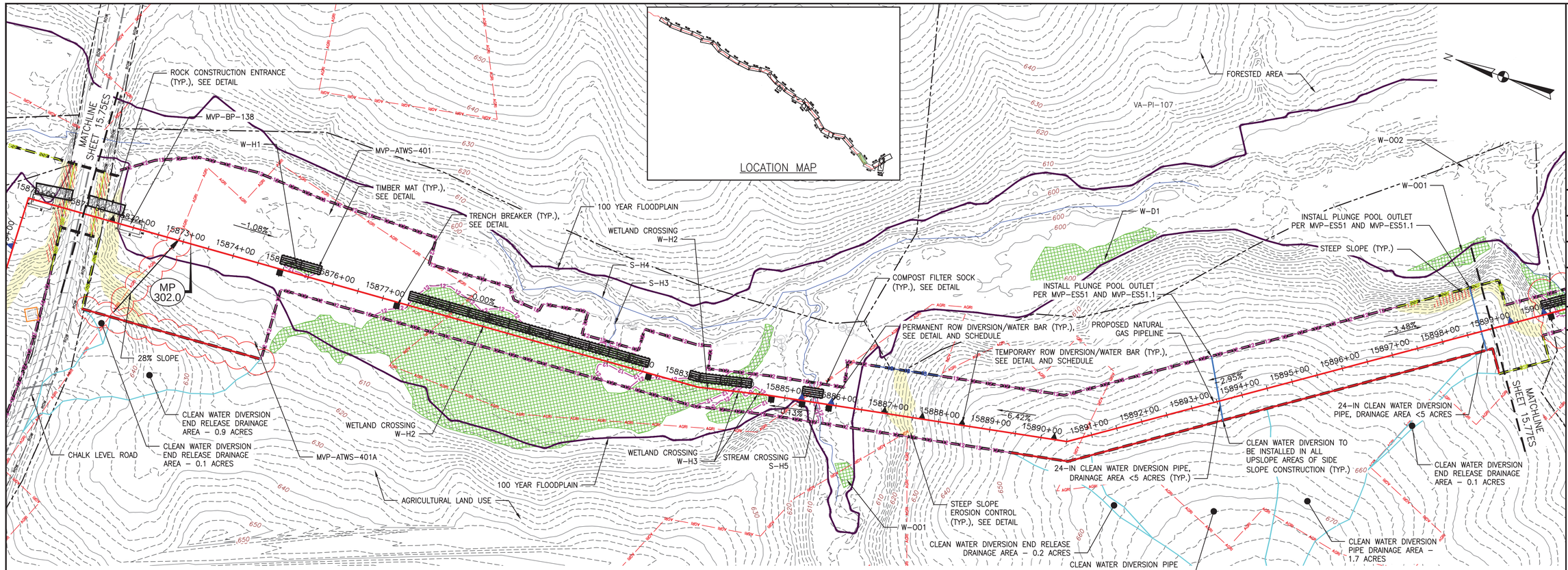
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
05/12/2021

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	06/16/2023
SCALE:	AS SHOWN
SHT. NO.	15.75ES OF 15.99ES

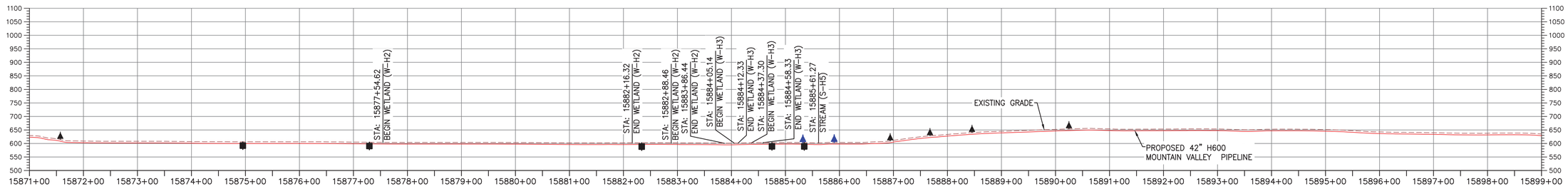
REVISION



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- ANST — ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- AFM — AFM — ACID FORMING MATERIAL
- AGRI — AGRI — AGRICULTURAL LAND USE BOUNDARY
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SF — SF — PROPOSED SILT FENCE (SEE NOTE 5)
- SSF — SSF — PROPOSED SUPER SILT FENCE (SEE DETAIL MVP–ES9.2)
- RFD — RFD — PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP–ES9, 9.1, 9.2, 9.3)
- OCSF — ORANGE CONSTRUCTION SAFETY FENCE
- 12 — 12 — 12 — 12 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP–ES3, 3.1, 3.2)
- 18 — 18 — 18 — 18 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP–ES3, 3.1, 3.2)
- 24 — 24 — 24 — 24 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP–ES3, 3.1, 3.2)
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- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
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5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE, AT THE DIRECTION OF MVP.
6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP–ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VWRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP–ES49.

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvainia\E&S\ES Version 5.0.0\7157ES15.76(S11).dwg PLOTTED ON: 3/2/2018 10:06 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

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3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

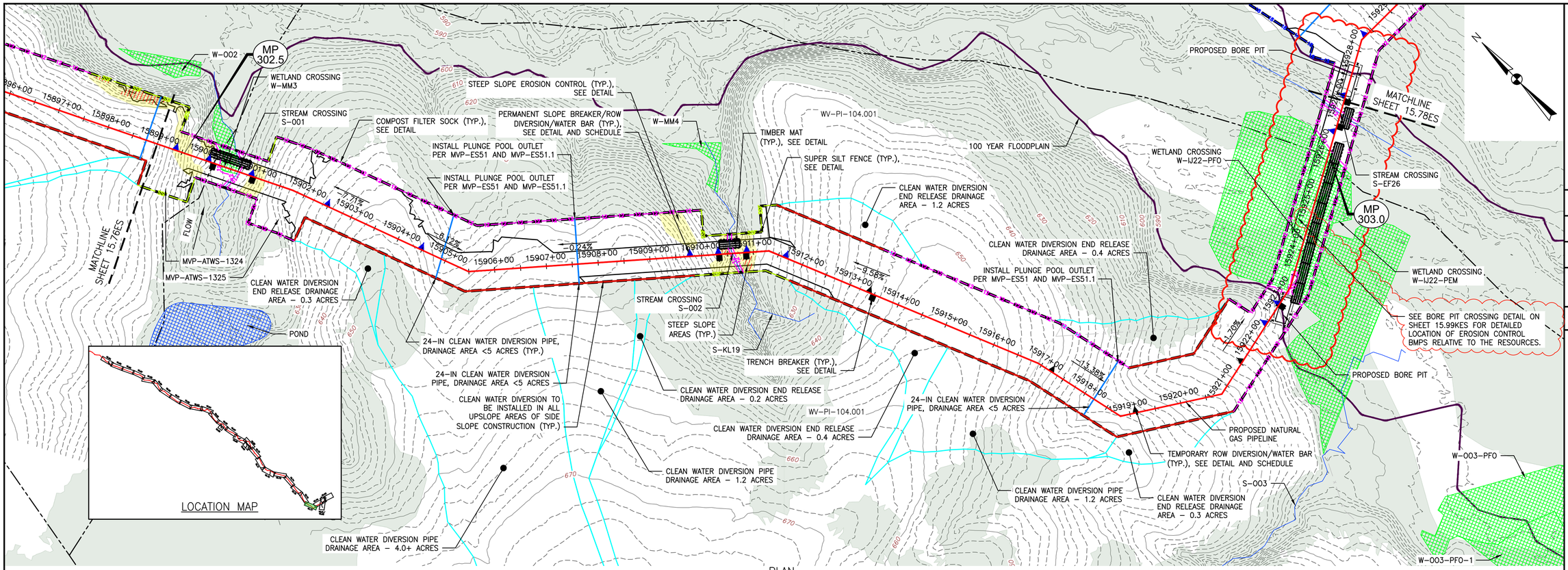
MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

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

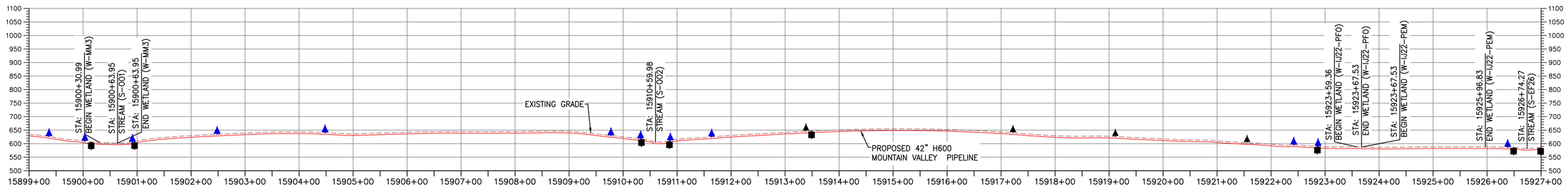
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CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.76ES OF 15.99ES



PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE:

SCALE: 1" = 200'

200 0 200 400

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
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- 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)
- 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)

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 04-07-2023

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
–	05/12/21	JJZ	RE	DW	CROSSING METHOD CHANGE FROM OPEN CUT TO BORE
–	04/07/23	JJZ	TD	DCW	ADDRESS DEQ COMMENTS ON CROSSING CHANGE METHOD

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

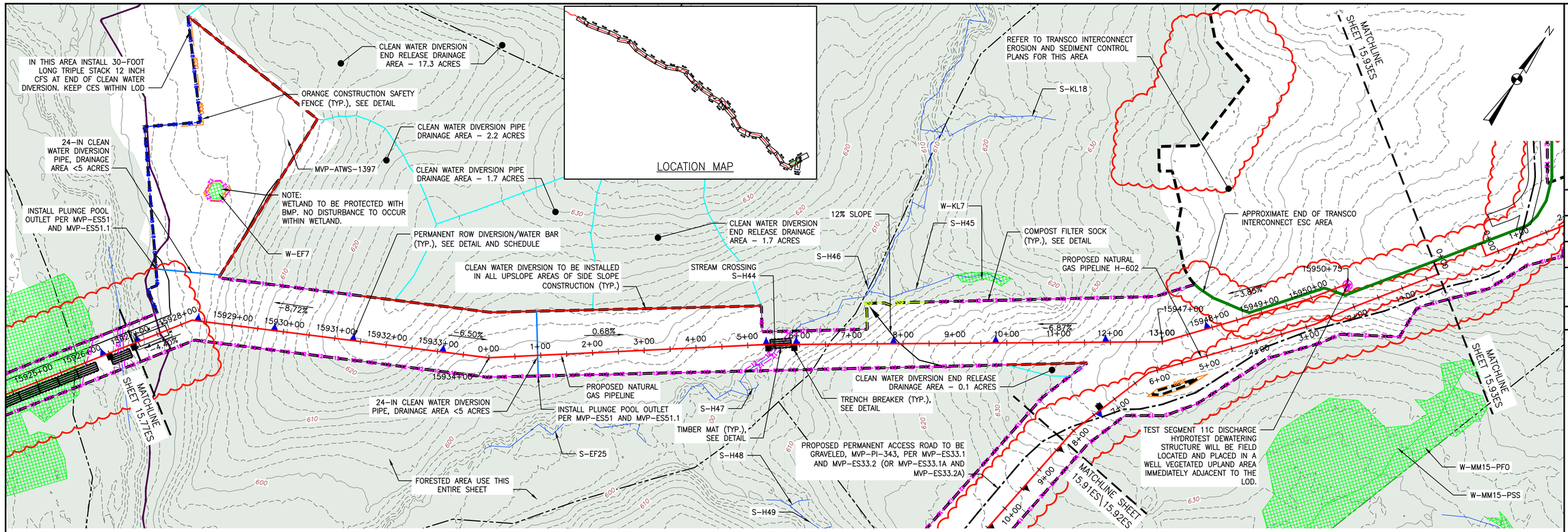
TETRA TECH
complex world | CLEAR SOLUTIONS™
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

DRAWN BY:	JZ
CHECKED BY:	TD
APPROVED BY:	DCW
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	1
SHT. NO.	15.77ES OF 15.99ES

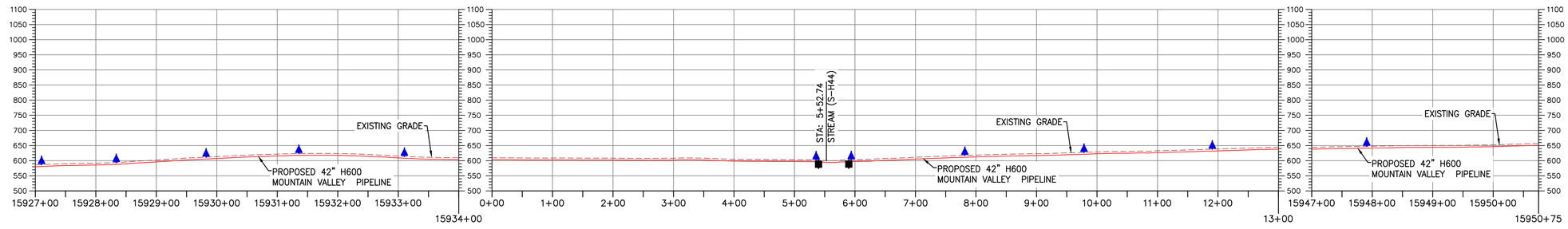
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PLAN

SCALE: 1" = 100'

100 0 100 200



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

100 0 100 200

VERTICAL SCALE: SCALE: 1" = 200'

200 0 200 400

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
- PROPOSED ACCESS ROAD CENTERLINE
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- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
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- 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)

COMMONWEALTH OF VIRGINIA
5/5/22
TIMOTHY N. DUNAWAY
No. 040064
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 05-05-22

NOTES:

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REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
7	06/20/18	KAL	RE	DW	UPDATED TO REFLECT FINAL LOD FOR APPROVED TRANSCO INTERCONNECT SITE
–	05/04/22	JJZ	RE	TD	UPDATED MVP-PI-343 ALIGNMENT AND TRANSCO LOD

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

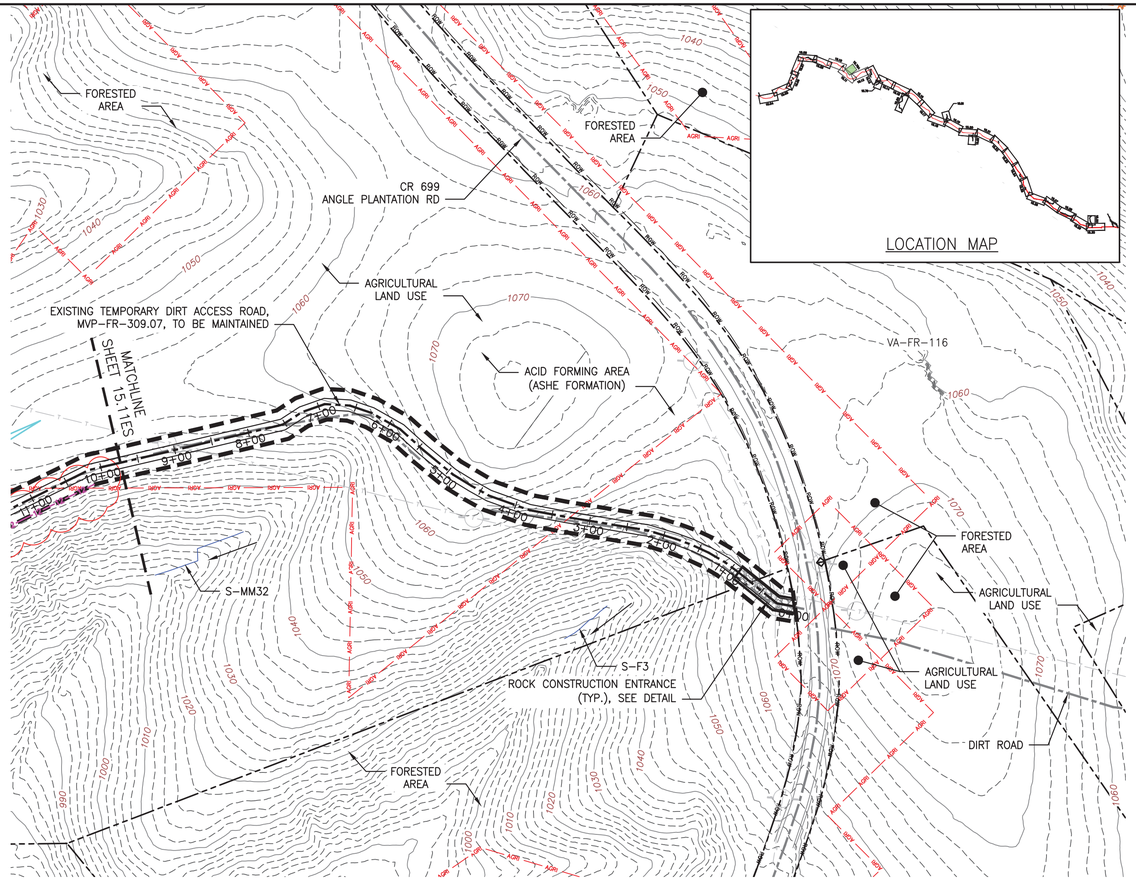
TETRA TECH
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	JZ
CHECKED BY:	RE
APPROVED BY:	TD
DATE:	05/04/2022
SCALE:	AS SHOWN
SHT. NO.	15.78ES OF 15.99ES

– REVISION



PLAN

SCALE: 1" = 100'

100 0 100 200

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)
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- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- STREAM FLOW DIRECTION
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- 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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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
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4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

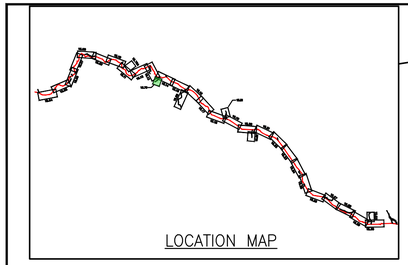
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

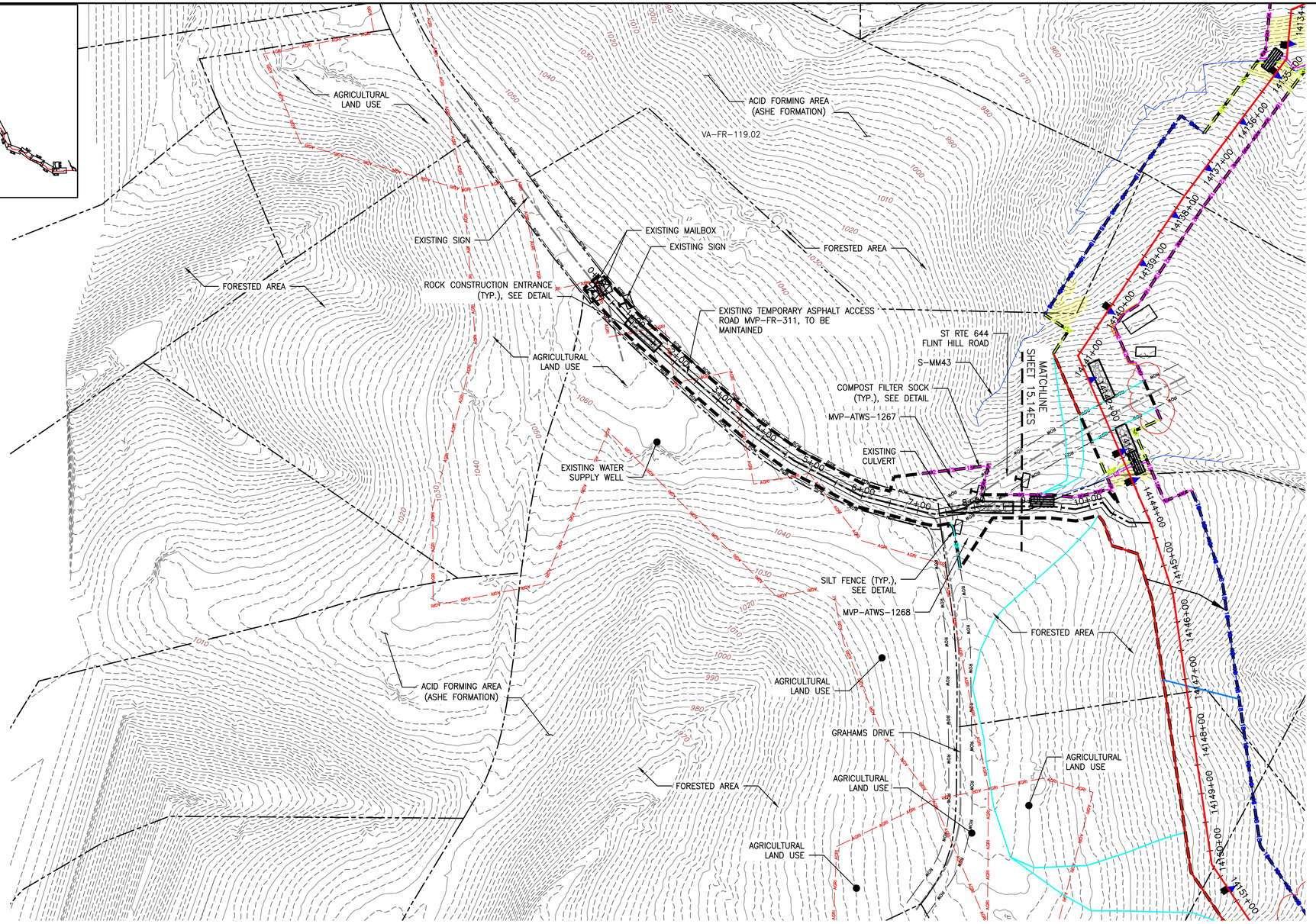
DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN

REVISION

SHT. NO. 15.78AES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.78A(S11).dwg PLOTTED ON: 3/2/2018 10:17 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- ANST — ANST — APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- AFM — AFM — ACID FORMING MATERIAL
- AGR — AGR — AGRICULTURAL LAND USE BOUNDARY
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SF — SF — PROPOSED SILT FENCE (SEE NOTE 5)
- SSF — SSF — PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
- RFD — RFD — PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3)
- OCSF — ORANGE CONSTRUCTION SAFETY FENCE
- 12 — 12 — 12 — 12 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- 18 — 18 — 18 — 18 — PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- 24 — 24 — 24 — 24 — 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)

PLAN

SCALE: 1" = 100'

100 0 100 200

- 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)
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- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.79(S11).dwg PLOTTED ON: 3/2/2018 10:19 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
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3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

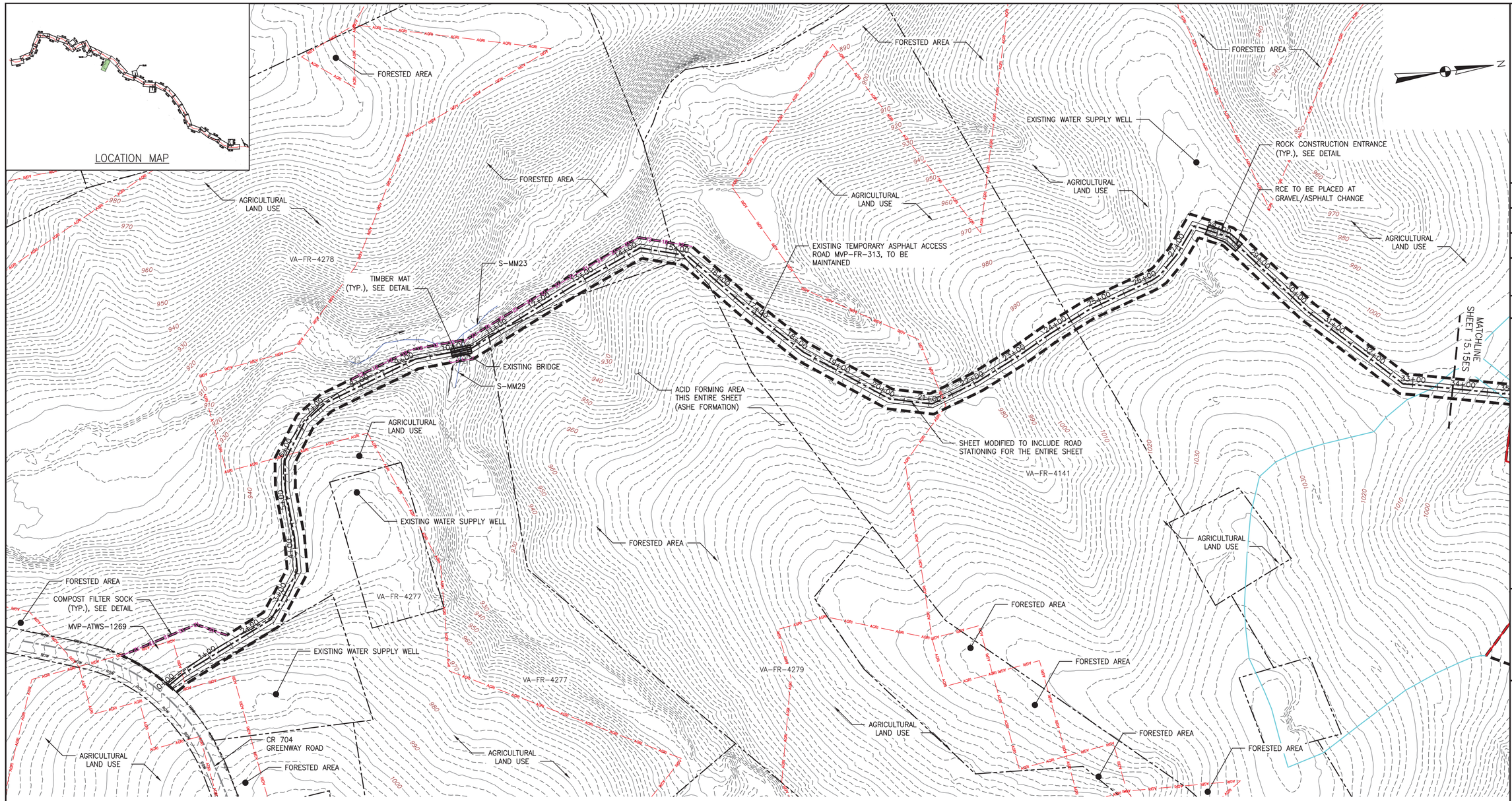
TETRA TECH
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PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.79ES OF 15.99ES

REVISION



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)

PLAN

SCALE: 1" = 100'

100 0 100 200

- 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:

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

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

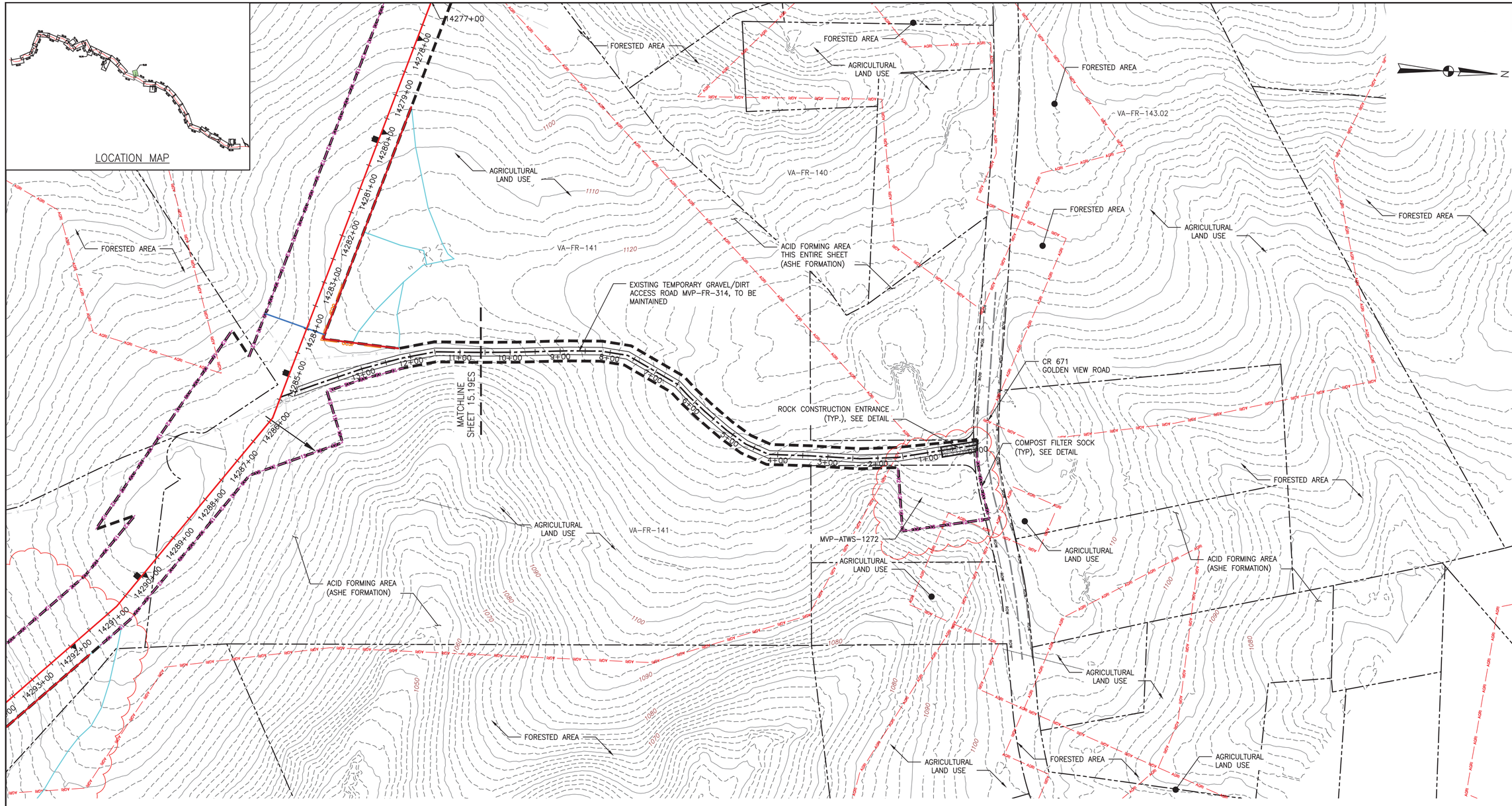
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 040202575
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN

REVISION

SHT. NO. 15.80ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.80(S11).dwg PLOTTED ON: 3/2/2018 10:20 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL (ANST)
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- ACID FORMING MATERIAL (AFM)
- AGRICULTURAL LAND USE BOUNDARY (AGR)
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5) (SF)
- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2) (SSF)
- PROPOSED REINFORCED FILTRATION DEVICE (SEE DETAILS MVP-ES9, 9.1, 9.2, 9.3) (RFD)
- ORANGE CONSTRUCTION SAFETY FENCE (OCSF)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) (12)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) (18)
- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2) (24)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)

PLAN

SCALE: 1" = 100'

100 0 100 200

- 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:

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

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 - MVP\15 - Franklin\E&S\ES Version 5.0.0\7157ES15.81(S11).dwg PLOTTED ON: 3/2/2018 10:21 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

REVISIONS:

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
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4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

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

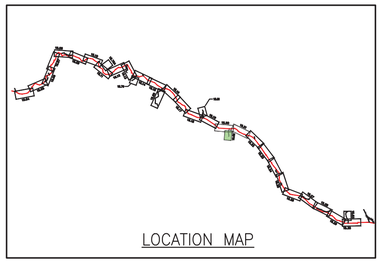
EROSION AND SEDIMENT CONTROL PLANS

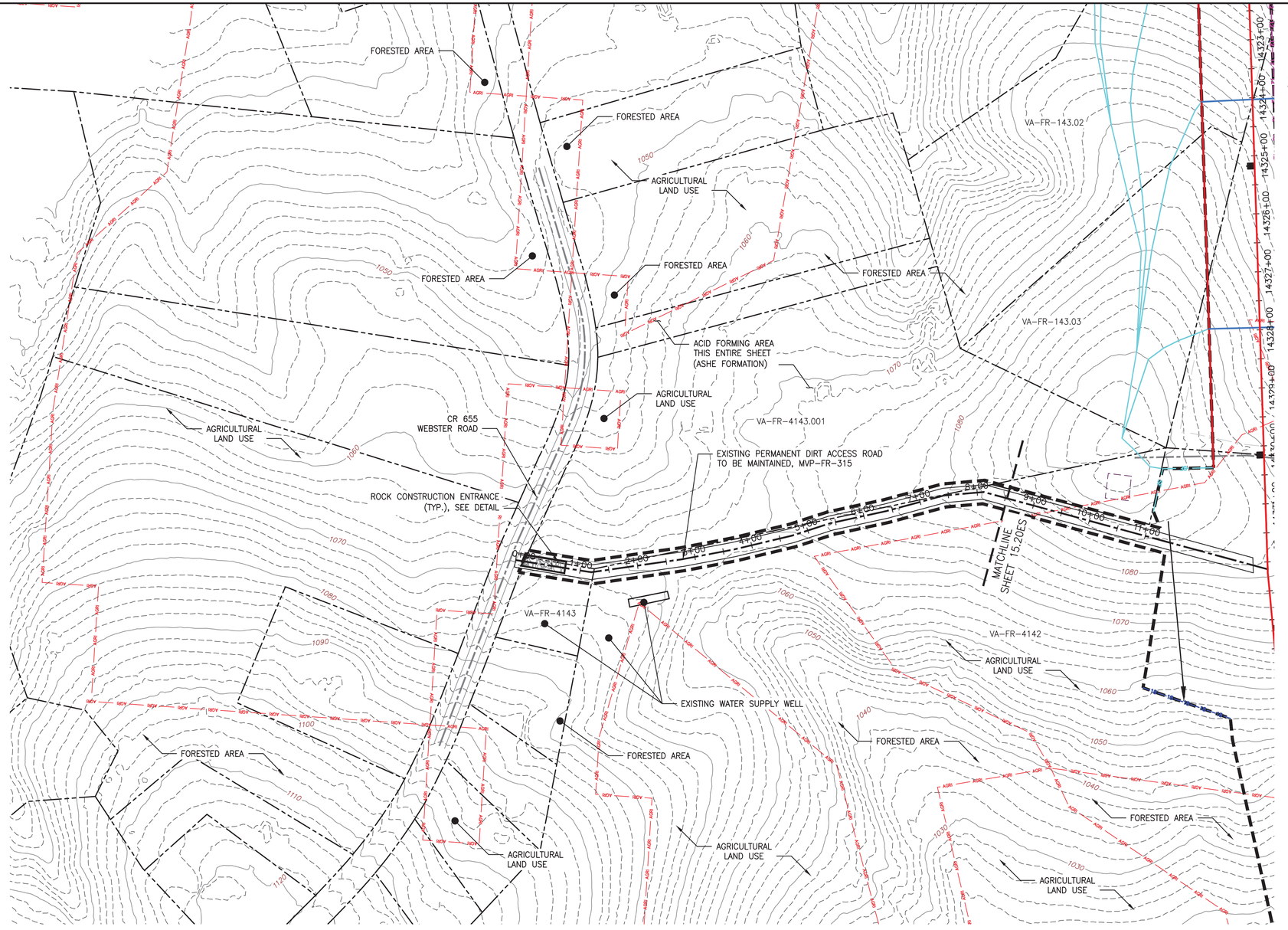
MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5

SHT. NO. 15.81ES OF 15.99ES





LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
- EXISTING STATE LINE
- EXISTING COUNTY LINE
- POND
- WETLAND
- 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)

PLAN

SCALE: 1" = 100'

100 0 100 200

- 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:

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

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

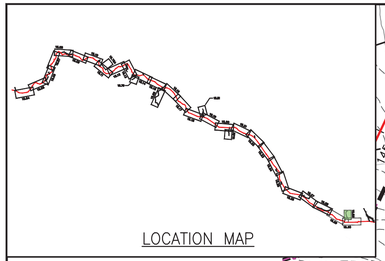
EROSION AND SEDIMENT CONTROL PLANS

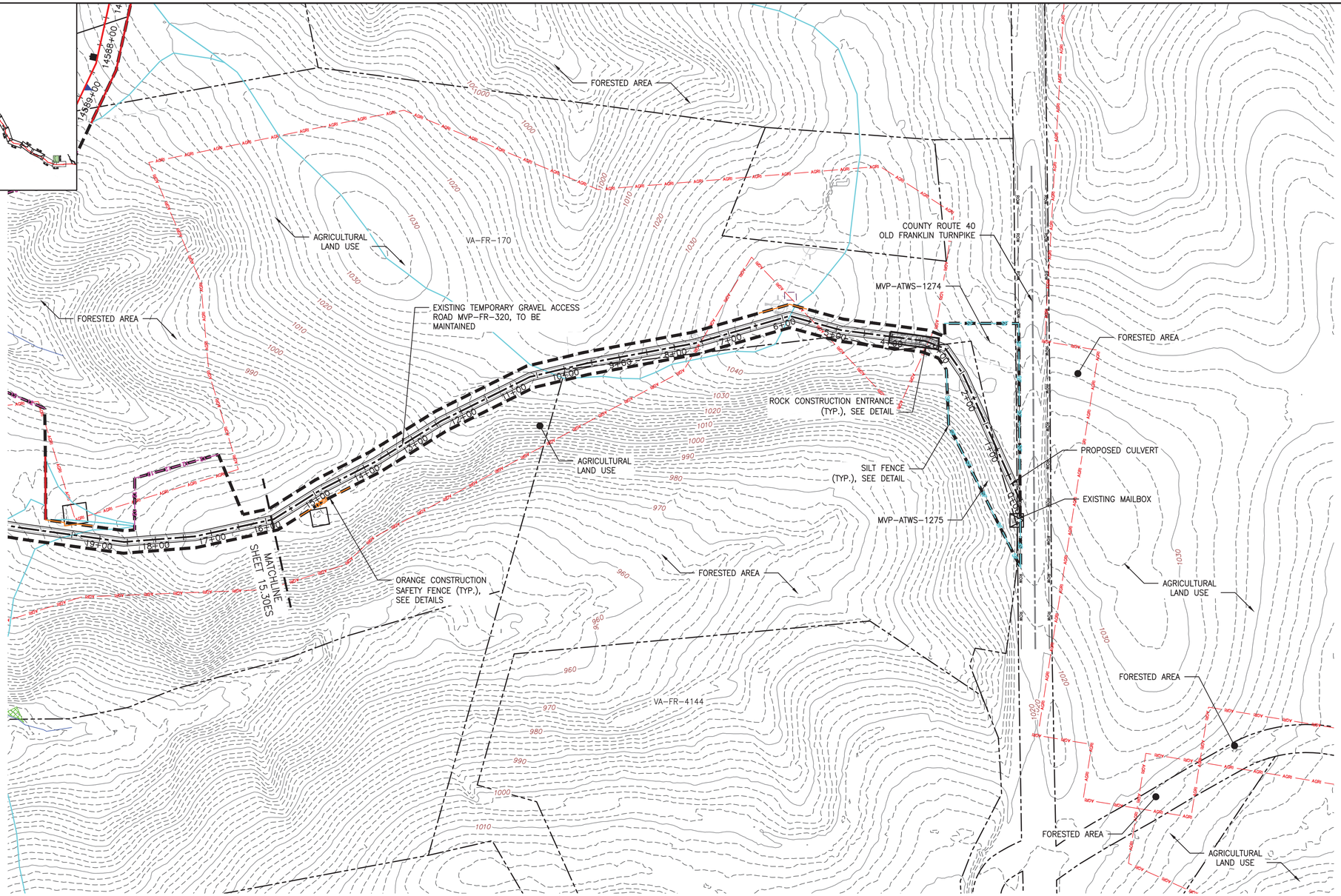
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.82ES OF 15.99ES

REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.82(S11).dwg PLOTTED ON: 3/2/2018 10:22 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





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)

PLAN

SCALE: 1" = 100'

100 0 100 200

- 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:

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 TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
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NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
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3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

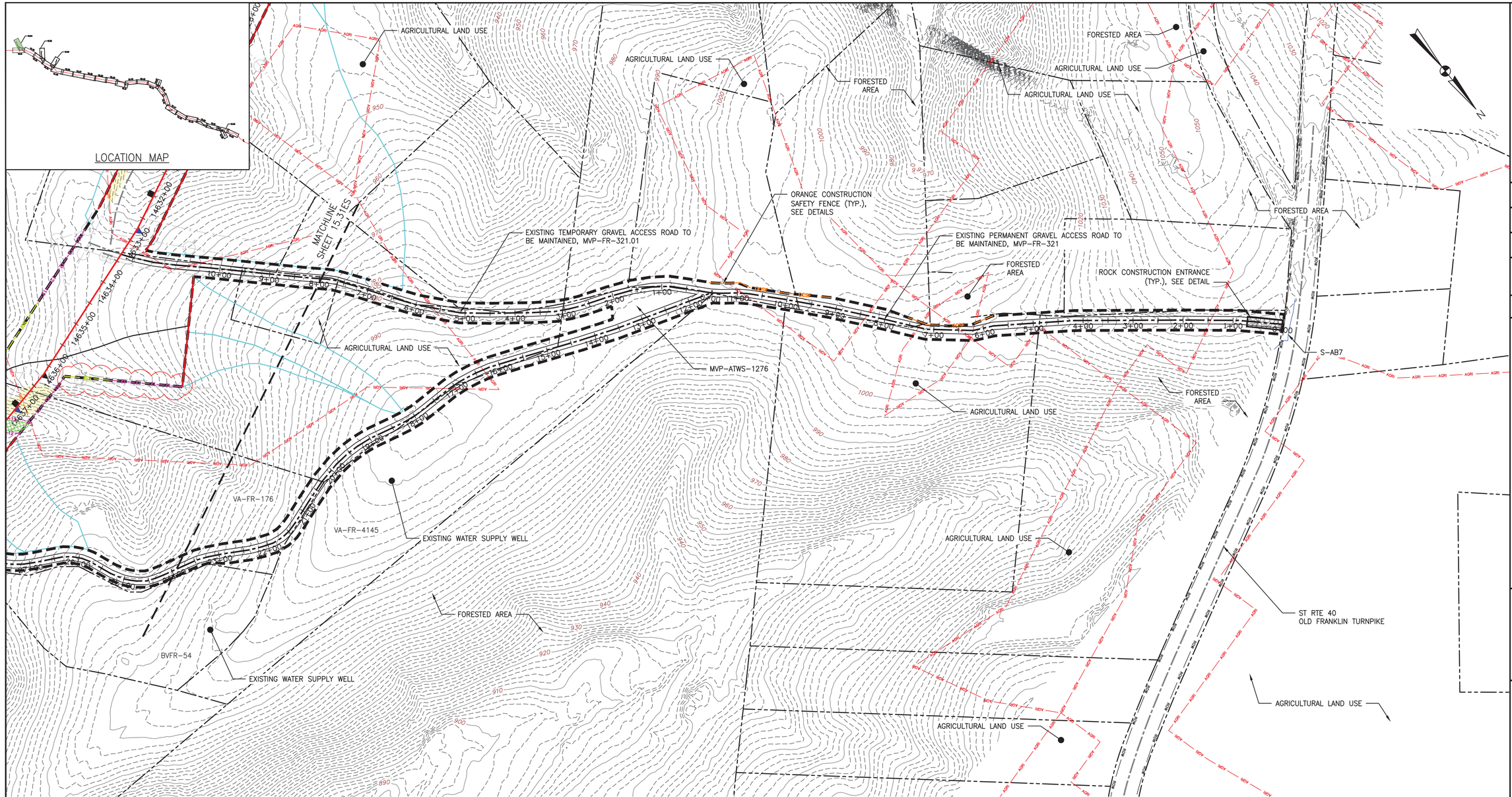
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN

REVISION

SHT. NO. 15.83ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.83(S11).dwg PLOTTED ON: 3/2/2018 10:24 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



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)

PLAN

SCALE: 1" = 100'

100 0 100 200

- 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:

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

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5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

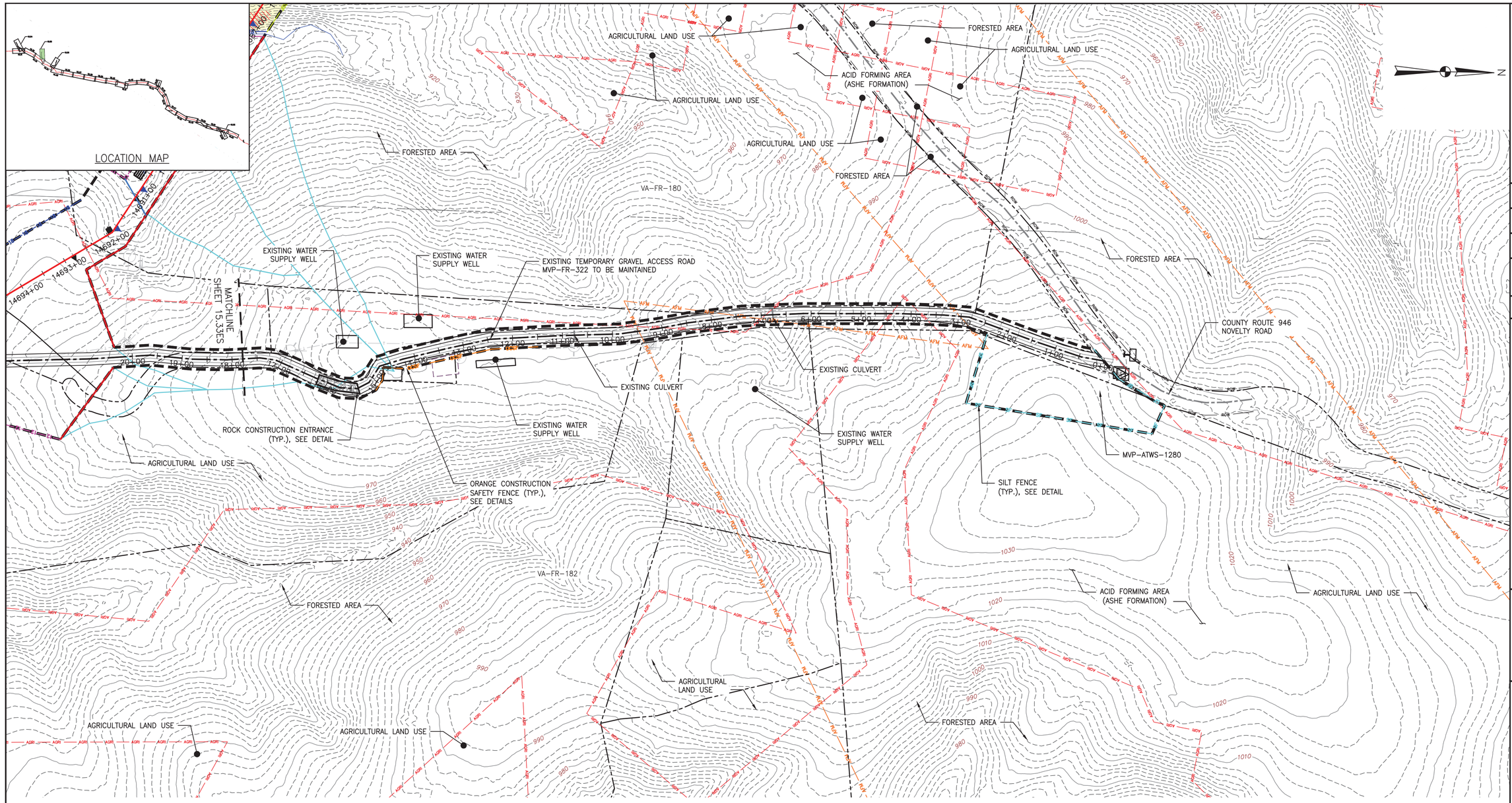
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FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.84ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.84(S11).dwg PLOTTED ON: 3/2/2018 10:25 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



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)

PLAN

SCALE: 1" = 100'

100 0 100 200

- 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)

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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\15 – Franklin\E&S\ES Version 5.0.0\7157ES15.85(S11).dwg PLOTTED ON: 3/2/2018 10:27 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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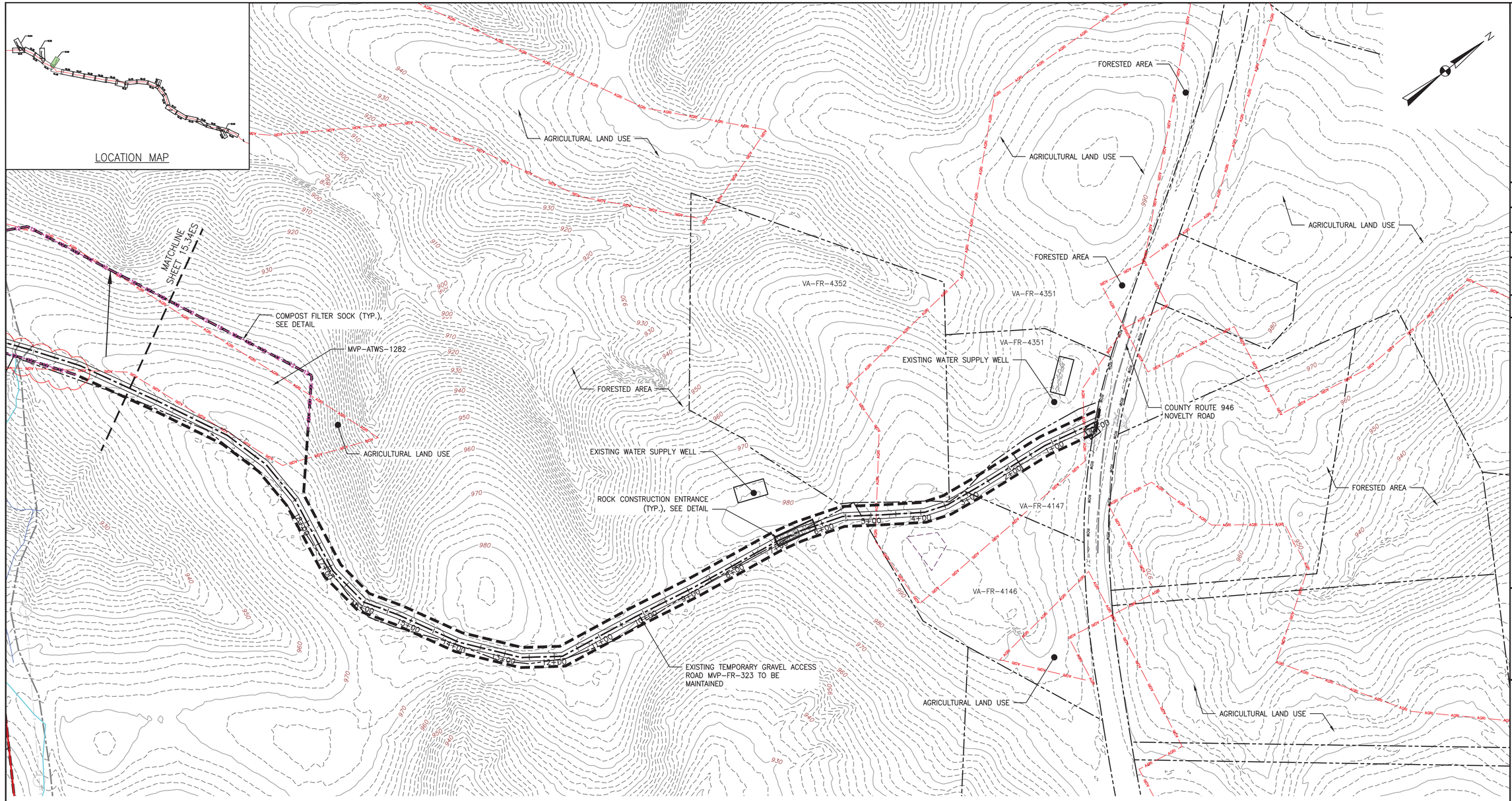
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.85ES OF 15.99ES

REVISION

LOCATION MAP



PLAN

SCALE: 1" = 100'

100 0 100 200

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
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3	01/07/18	KAL	RE	DW	VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – FRANKLIN COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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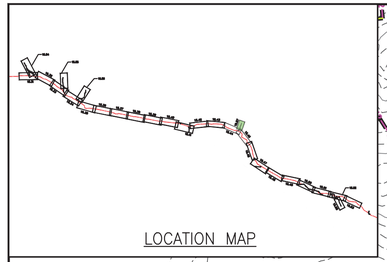
EROSION AND SEDIMENT CONTROL PLANS

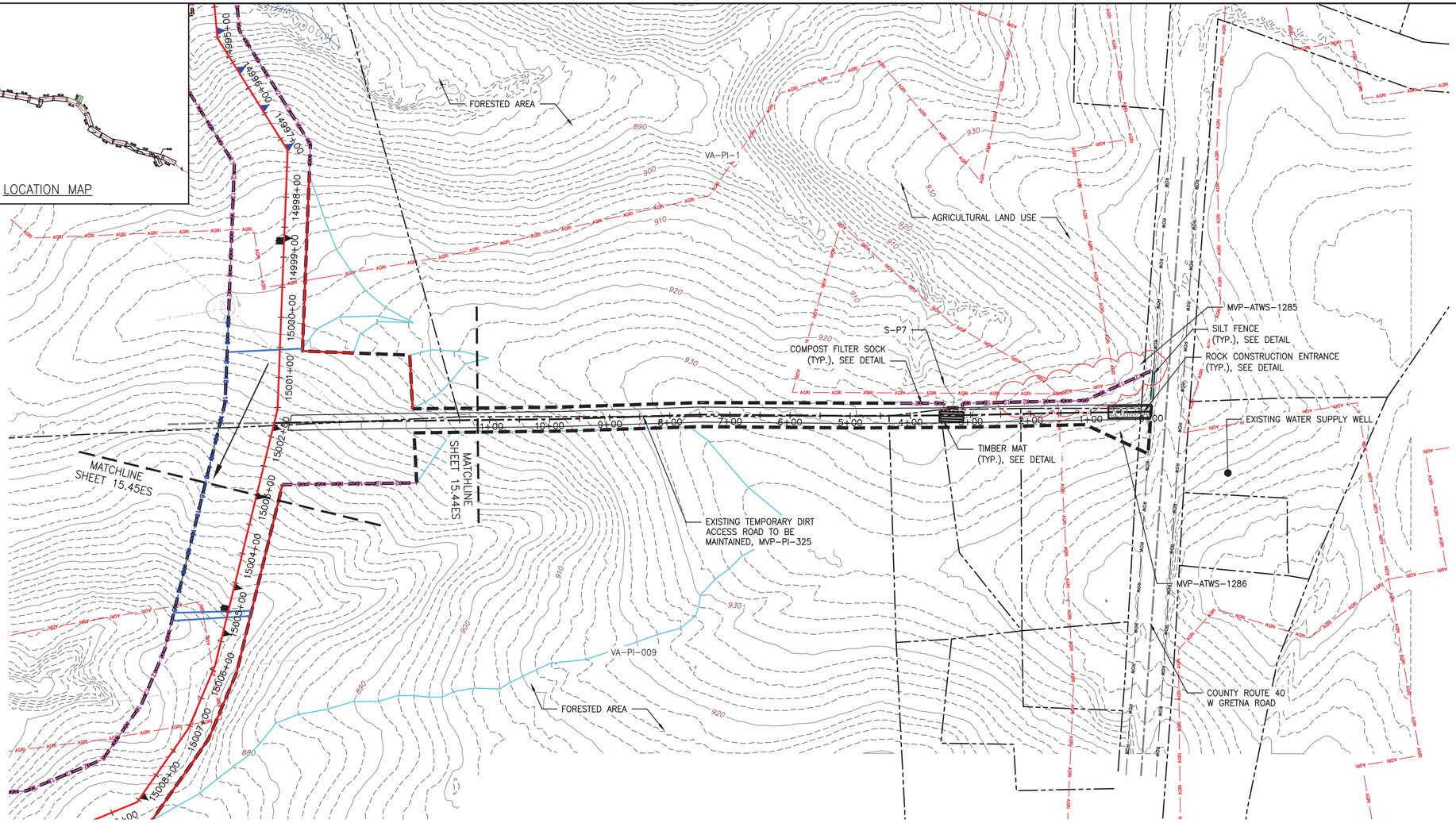
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
SHT. NO.	15.86ES OF 15.99ES

REVISION

LOCATION MAP





PLAN

SCALE: 1" = 100'

100 0 100 200

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

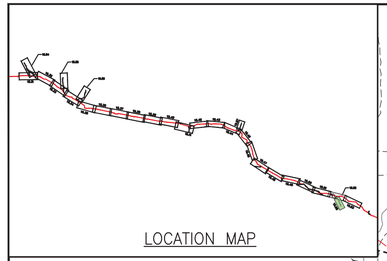
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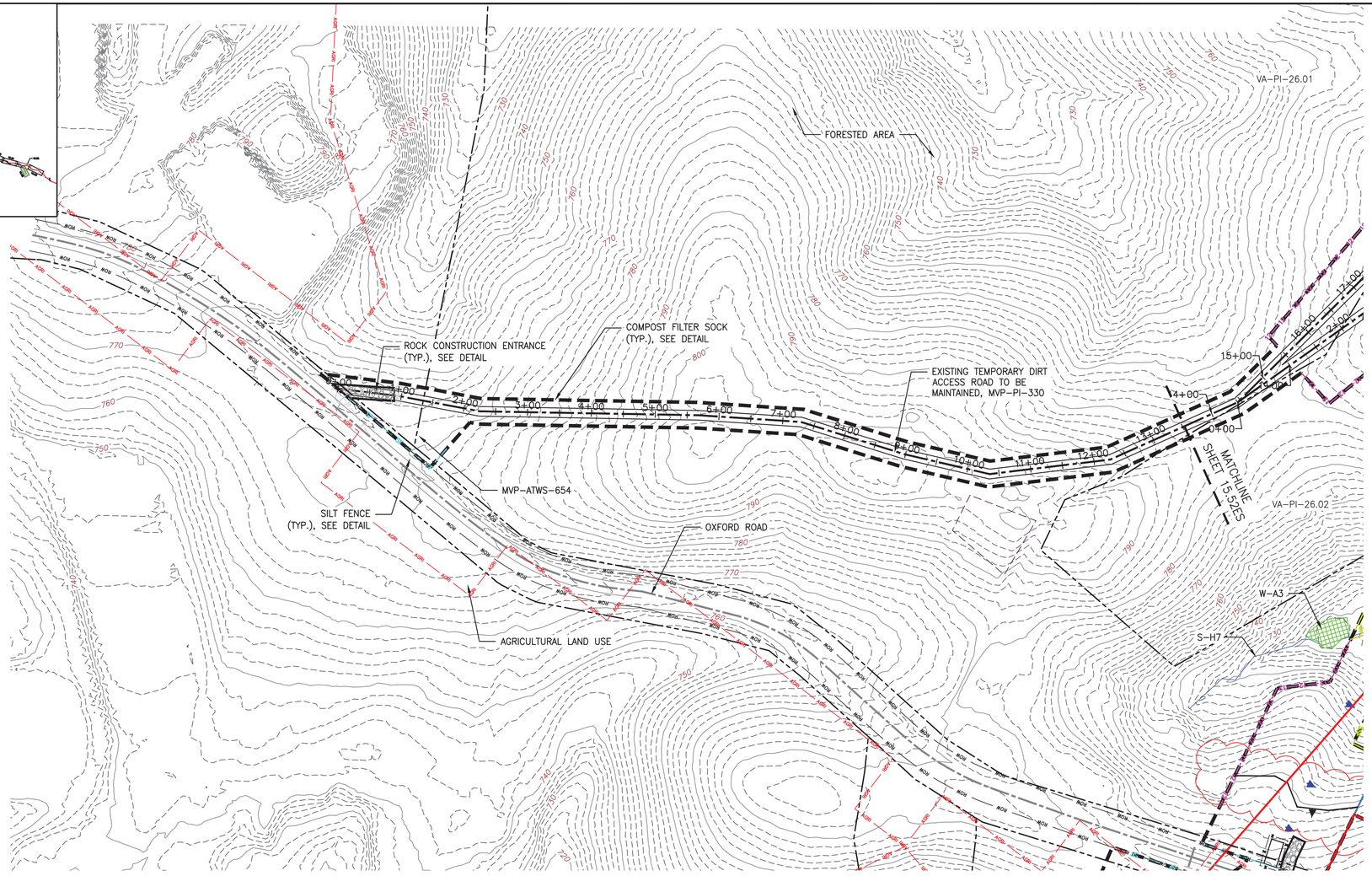
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.87ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvainia\E&S\ES Version 5.0.0\7157ES15.87(S11).dwg PLOTTED ON: 3/2/2018 10:29 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





PLAN

SCALE: 1" = 100'

100 0 100 200

LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
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REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
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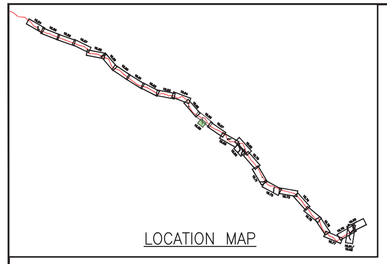
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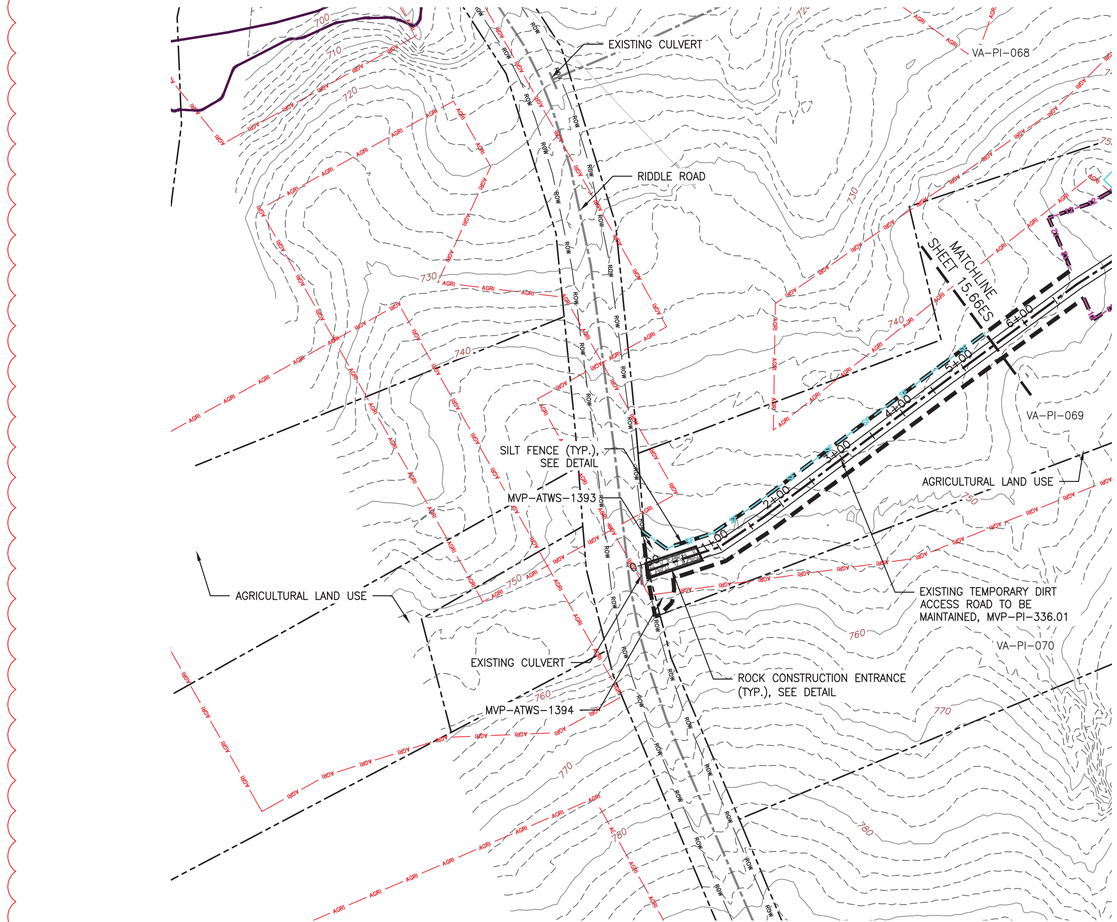
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REVISION	5
SHT. NO.	15.88ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvainia\E&S\ES Version 5.0.0\7157ES15.88(S11).dwg PLOTTED ON: 3/2/2018 10:30 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





PLAN

SCALE: 1" = 100'

100 0 100 200

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)
- 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.
5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRES VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

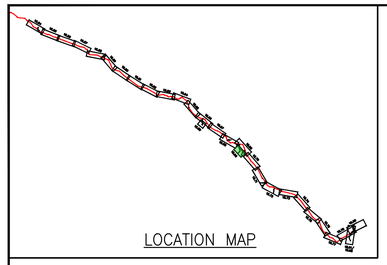
TETRA TECH
complex world | CLEAR SOLUTIONS™
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

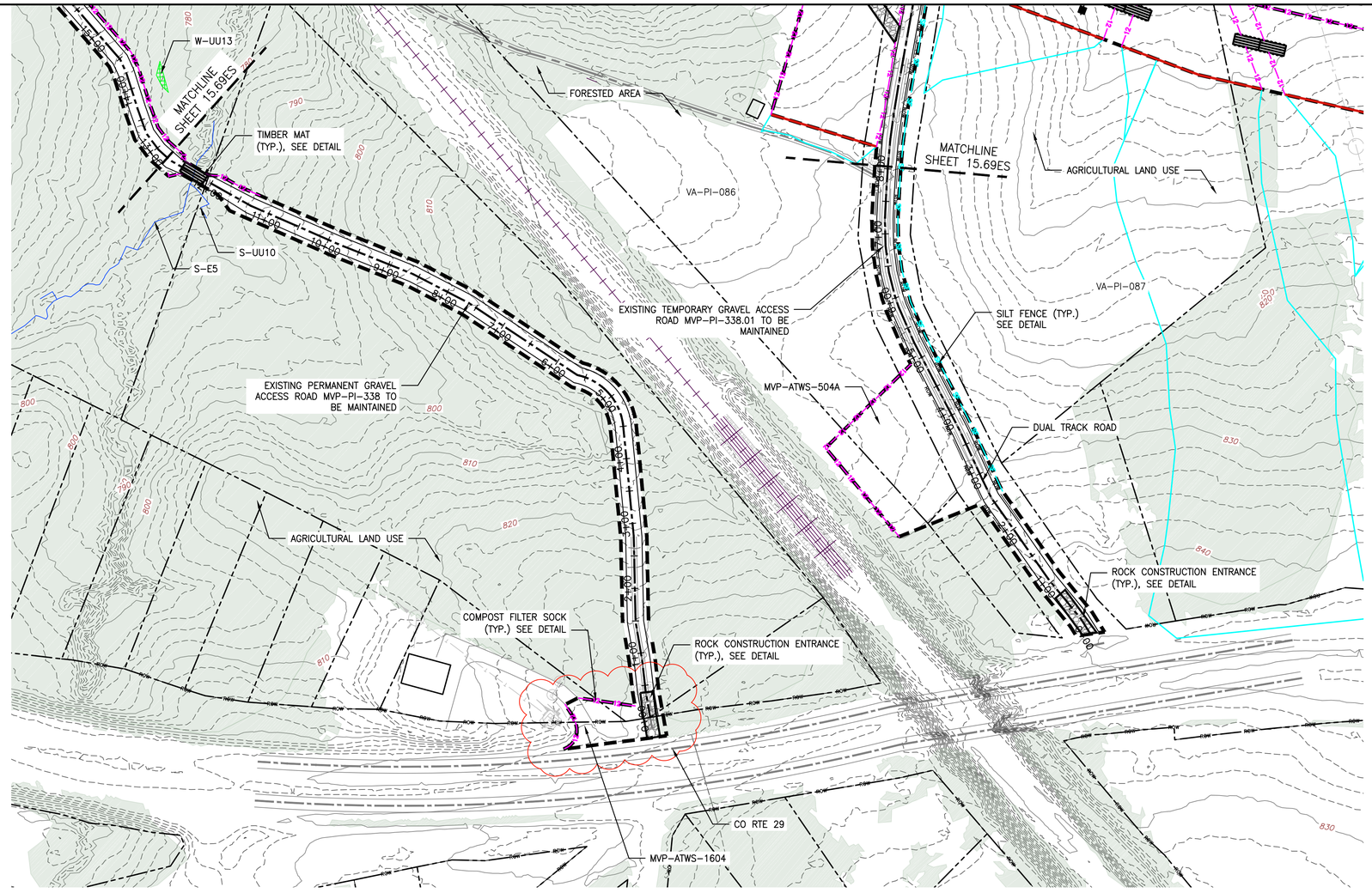
EROSION AND SEDIMENT CONTROL PLANS

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

DRAWN BY:	KAL
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	03/04/2018
SCALE:	AS SHOWN
REVISION	5
SHT. NO.	15.89ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvania\E&S\ES Version 5.0.0\7157ES15.89(S11).dwg PLOTTED ON: 3/2/2018 10:32 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





PLAN

SCALE: 1" = 100'

100 0 100 200

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
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- PROPOSED SILT FENCE (SEE NOTE 5)
- 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:

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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.

REVISIONS:

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	12/14/18	KAL	RE	DW	FIELD MODIFICATION
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	02/27/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	01/07/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

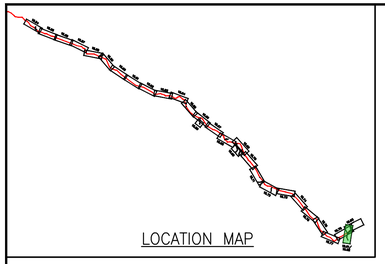
EROSION AND SEDIMENT CONTROL PLANS

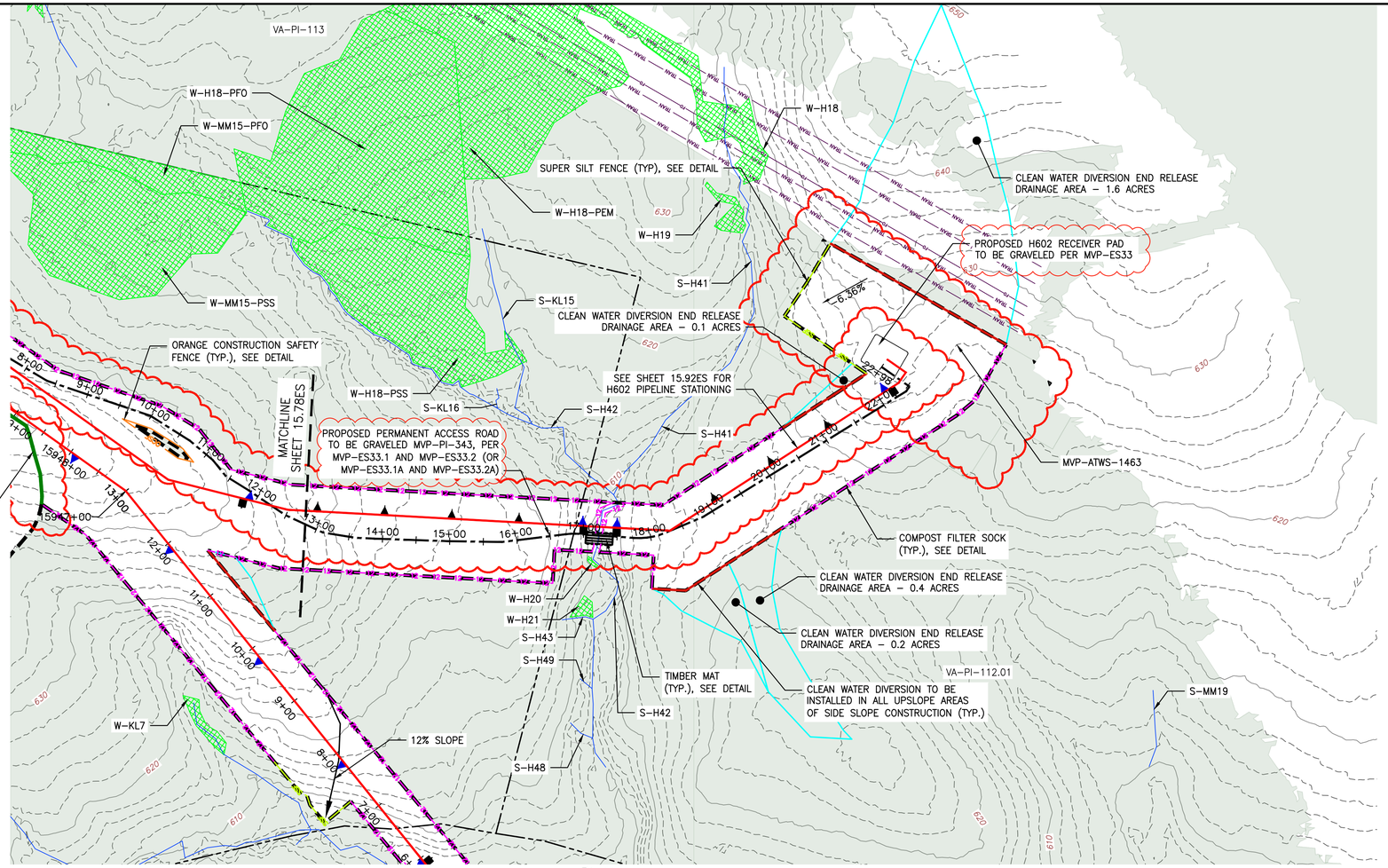
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 04020575S3
PROFESSIONAL ENGINEER

DRAWN BY:	JWK
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	12/14/2018
SCALE:	AS SHOWN
REVISION	6

SHT. NO. 15.90ES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvainia\E&S\ES Version 5.0.0\7157ES15.90(S11).dwg PLOTTED ON: 1/3/2019 8:17 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





PLAN

SCALE: 1" = 100'

100 0 100 200

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
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- EXISTING FOREST
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- PROPOSED PIPELINE
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- PROPOSED SUPER SILT FENCE (SEE DETAIL MVP-ES9.2)
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- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
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- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
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- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- PROPOSED TRENCH BREAKER (SEE DETAIL MVP-20)
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- PERMANENT SLOPE BREAKER/ROW DIVERSION/WATER BAR (SEE DETAILS MVP-17, ES38, AND SCHEDULE)

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COMMONWEALTH OF VIRGINIA
5/5/22
TIMOTHY N. DUNAWAY
No. 040064
PROFESSIONAL ENGINEER

THIS SEAL APPLIES ONLY TO REVISIONS DATED 05-05-22

NO.	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	05/05/22	JJZ	RE	TD	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	08/22/19	JWK	RE	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	04/18/19	JWK	RE	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	01/21/19	JWK	RE	DW	FIELD MODIFICATION-MP XJ13 (H602 RECEIVER SITE AND ACCESS ROAD MVP-PI-343)
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

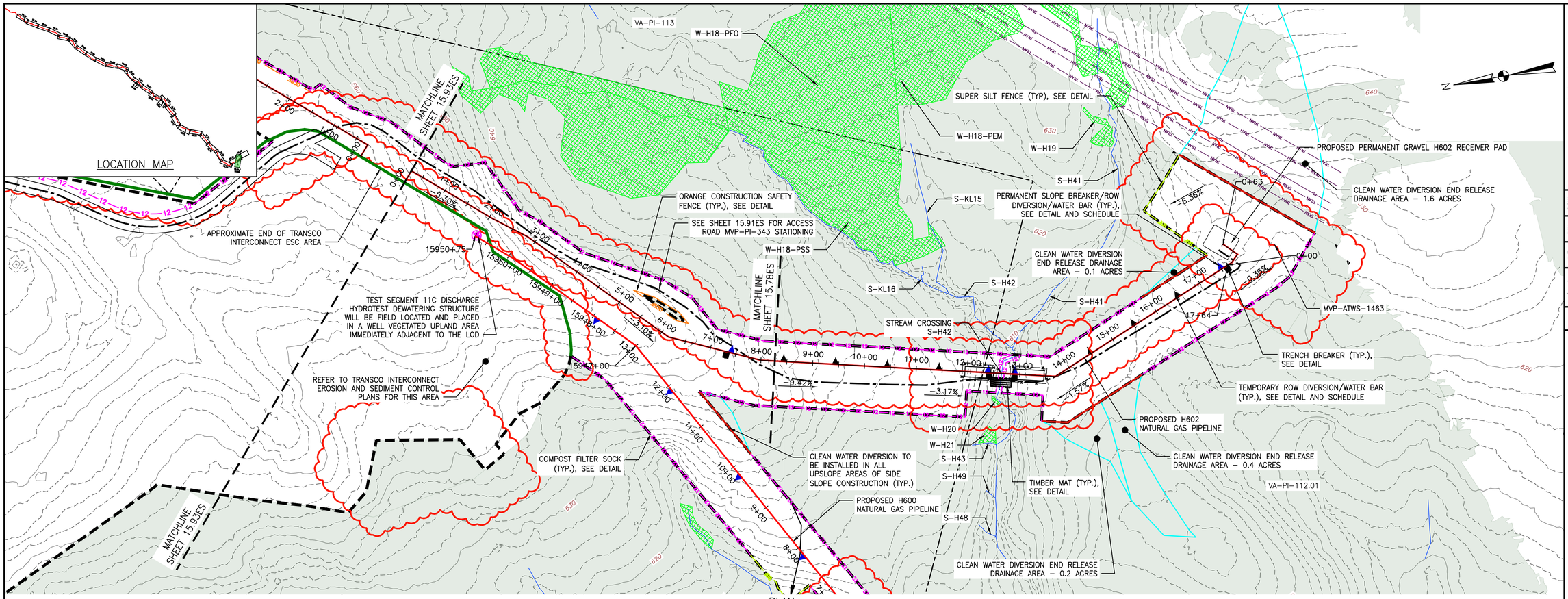
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
05/12/2022
PROFESSIONAL ENGINEER

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

– REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvainia\E&S\ES Version 5.0.0\7157ES15.91(S11).dwg PLOTTED ON: 7/7/2022 8:49 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



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
- 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)
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- PROPOSED COMPOST FILTER SOCK (SEE DETAILS MVP-ES3, 3.1, 3.2)
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- CLEAN WATER DIVERSION PIPE
- CLEAN WATER DIVERSION DIKE (SEE DETAIL MVP-ES50 AND MVP-ES51)
- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- DRAINAGE AREA BOUNDARY
- TIMBER MAT (SEE DETAIL MVP-ES37)
- STEEP SLOPE EROSION CONTROL (SEE NOTE 2)
- STEEP SLOPE AREAS (SEE NOTE 4)
- PROPOSED ROCK CONSTRUCTION ENTRANCE
- 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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NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	07/28/23	JJZ	IHH	DCW	ADDRESS DEQ COMMENTS
–	05/05/22	JWK	RE	TD	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	08/22/19	JWK	RE	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	04/18/19	JWK	RE	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	01/21/19	JWK	RE	DW	FIELD MODIFICATION MP 343 (W82 RECEIVER SITE AND ACCESS ROAD MVP-R-343)
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT – H602 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
8/14/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

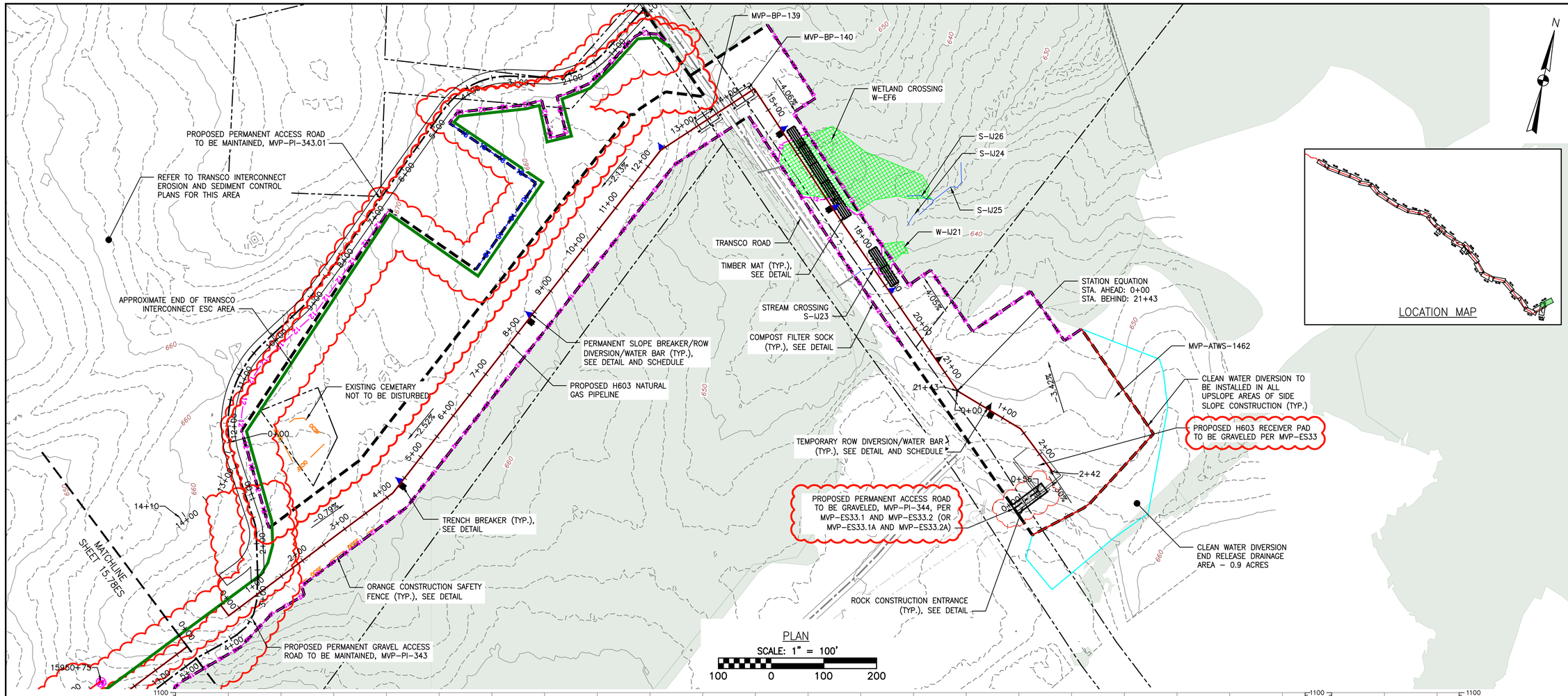
THIS SEAL APPLIES ONLY TO REVISIONS DATED 07-28-23

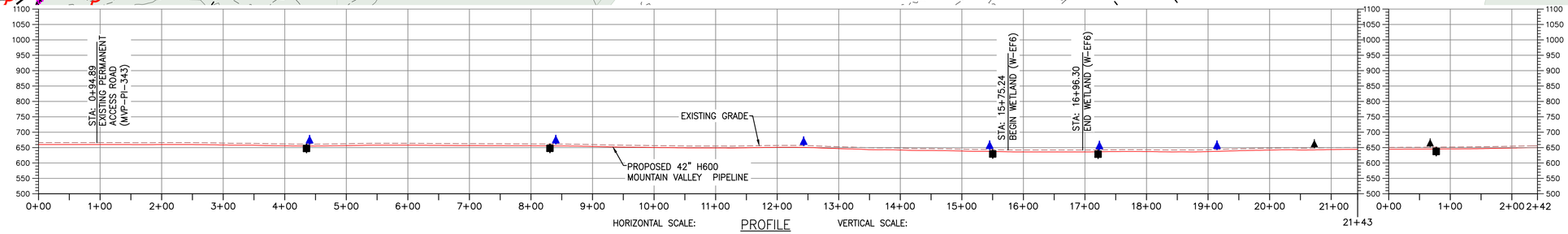
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
8/12/2023
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/28/2023
SCALE:	AS SHOWN
SHT. NO.	15.92ES OF 15.99ES

REVISION

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\16 – Pittsylvainia\E&S\ES Version 5.0.0\7157ES15.92(S11).dwg PLOTTED ON: 7/25/2023 12:24 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb





LEGEND

- PROPOSED LIMIT OF DISTURBANCE
- STREAM
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- EXISTING ROAD/TRAIL
- EXISTING PROPERTY LINE
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COMMONWEALTH OF VIRGINIA
8/14/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

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

NOTES:

1. TOPSOIL SEGREGATION TO BE CONDUCTED THROUGHOUT THE JEFFERSON NATIONAL FOREST.
2. FLEXTERRA, EARTHGUARD OR EQUIVALENT MAY BE USED AS A SUBSTITUTE TO EROSION CONTROL BLANKET AS DIRECTED BY MVP.
3. CONTRACTOR IS RESPONSIBLE TO IDENTIFY ALL UTILITIES. THE UTILITY LINES SHOWN ON THE PLAN ARE FOR INFORMATIONAL PURPOSES ONLY AND DO NOT REPRESENT SURVEYED LINE INFORMATION.
4. SLOPES OF 30° OR GREATER EXIST. CONSTRUCTION FOR STEEP SLOPES TO BE PERFORMED USING STEEP SLOPE TECHNIQUES IDENTIFIED IN THE DETAIL SHEETS. ALSO REFER TO THE SITE-SPECIFIC DESIGN OF STABILIZATION MEASURES IN SELECTED HIGH-HAZARD PORTIONS OF THE ROUTE OF THE PROPOSED MOUNTAIN VALLEY PIPELINE PROJECT.
5. WHERE CONSTRUCTION CONDITIONS PRECLUDE THE USE OF DIVERSION DITCHES DUE TO SITE CONDITIONS THE CONTRACTOR WILL INSTALL SILT FENCE AT THE DIRECTION OF MVP.
6. DRAINAGE FEATURE CROSSINGS TO BE PERFORMED PER DETAIL MVP-ES49.
7. TEMPORARY ACCESS ROAD CROSSING OF STREAMS AND WETLANDS WILL UTILIZE TIMBERMATS. ANY PERMANENT ROAD CROSSINGS WILL BE CONDUCTED VIA CULVERTS. NO UNPERMITTED IMPACT TO STREAMS WILL OCCUR AS A RESULT OF ROAD OR PIPELINE CROSSINGS AND ALL ESC BMP'S WILL BE INSTALLED TO CONTINUE THE STREAM FLOW.
8. ALL NON VMRC STREAM CROSSINGS WILL BE PERFORMED AS DESCRIBED IN THE STREAM CROSSING TABLE INCLUDED IN THIS PACKAGE AND PER DETAIL MVP-ES49.

NO.:	DATE:	DWN.:	CHK'D:	APPD.:	DESCRIPTION:
–	07/28/23	JJZ	IHH	DCW	ADDRESS DEQ COMMENTS
–	05/05/22	JWK	RE	TD	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	08/22/19	JWK	RE	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	04/18/19	JWK	RE	DW	ADDRESS VADEQ COMMENTS TO FIELD MODIFICATION SUBMITTAL
–	01/21/19	JWK	RE	DW	FIELD MODIFICATION OF 30(L) (MW2 REGRADE SITE AND ACCESS ROAD MP-P-343)
6	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS

MOUNTAIN VALLEY PIPELINE PROJECT H603 LINE

SPREAD 11 – PITTSYLVANIA COUNTY, VIRGINIA

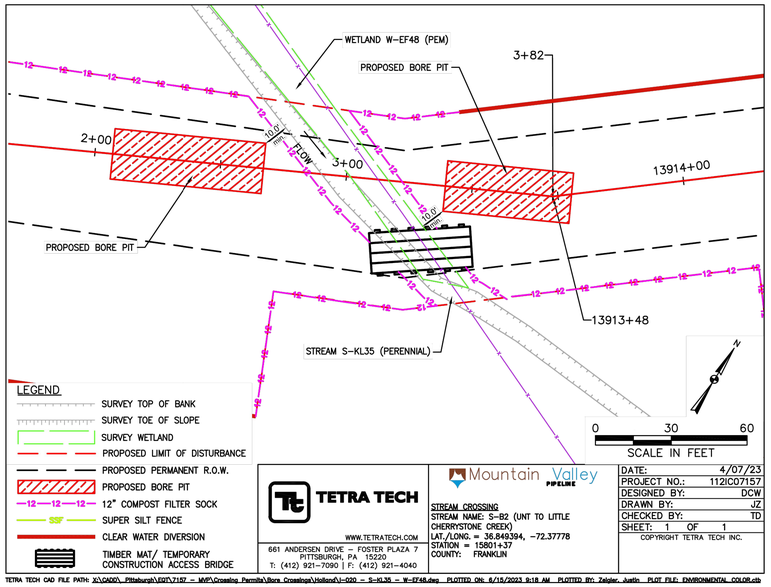
MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

TETRA TECH
complex world | CLEAR SOLUTIONS™
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FOSTER PLAZA 7
PITTSBURGH, PA 15220

EROSION AND SEDIMENT CONTROL PLANS

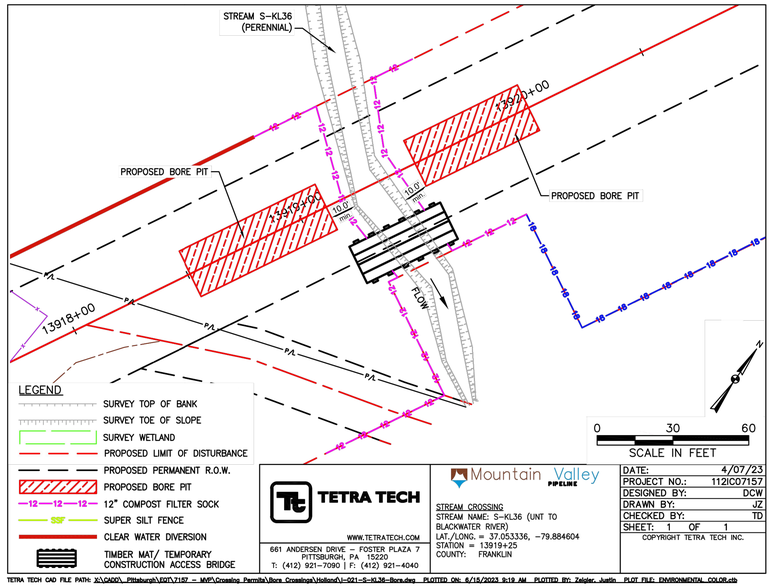
COMMONWEALTH OF VIRGINIA
DAVID J. WALLNER
Lic. No. 57593
PROFESSIONAL ENGINEER
5/12/2021

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	07/28/2023
SCALE:	AS SHOWN
REVISION	–
SHT. NO.	15.93ES OF 15.99ES



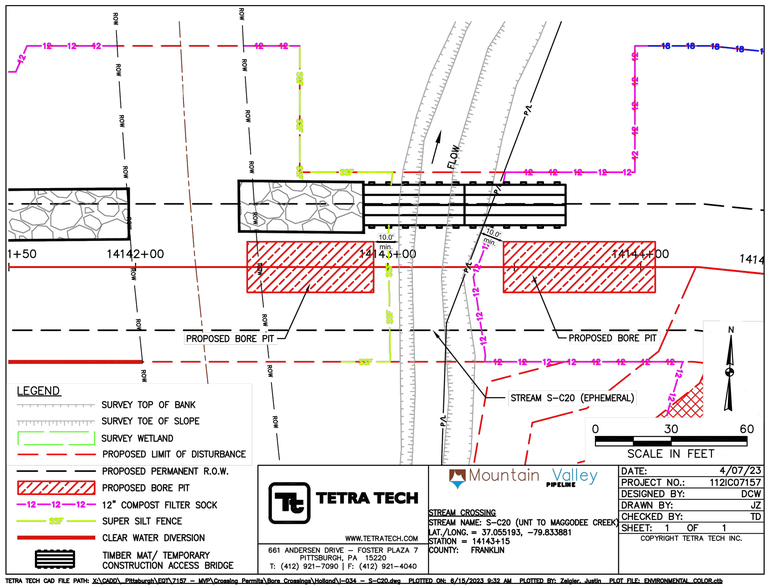
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BORE PIT STREAM CROSSING S-KL35, W-EF48
CROSSING ID I-020
PLAN VIEW



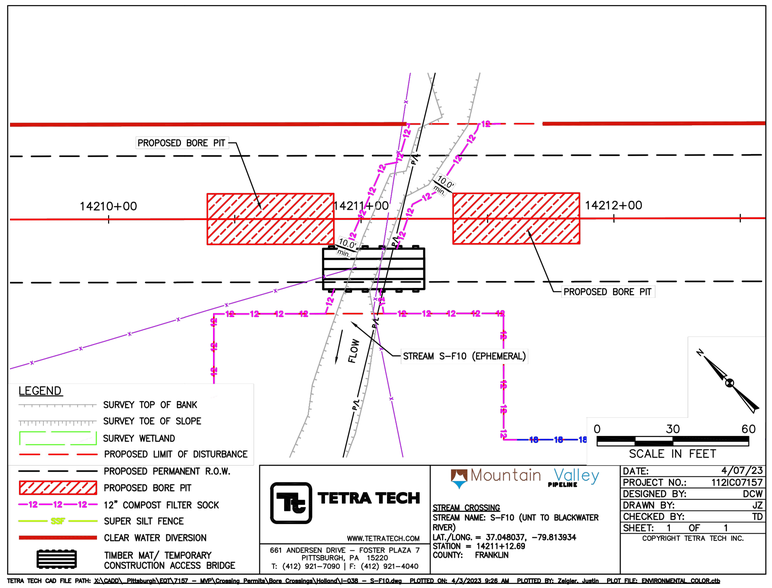
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BORE PIT STREAM CROSSING S-KL36
CROSSING ID I-021
PLAN VIEW



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BORE PIT STREAM CROSSING S-C20
CROSSING ID I-034
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-038 – S-F10.dwg PLOTTED ON: 4/3/2023 9:26 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-F10
CROSSING ID I-038
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JZ	TD	DCW	BORE CROSSING PERMITS
–	06/16/23	JZ	HH	DCW	ADDRESS VADEQ COMMENTS ON BORE PITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

TETRA TECH
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PITTSBURGH, PA 15220

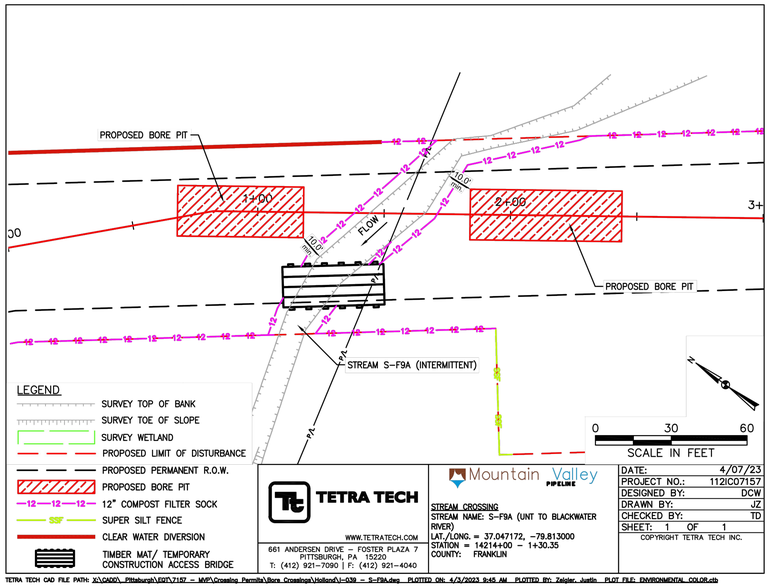
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
6/16/23
DANIEL C. WITT
Lic. No. 6509
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	06/16/2023
SCALE:	AS SHOWN
REVISION	–

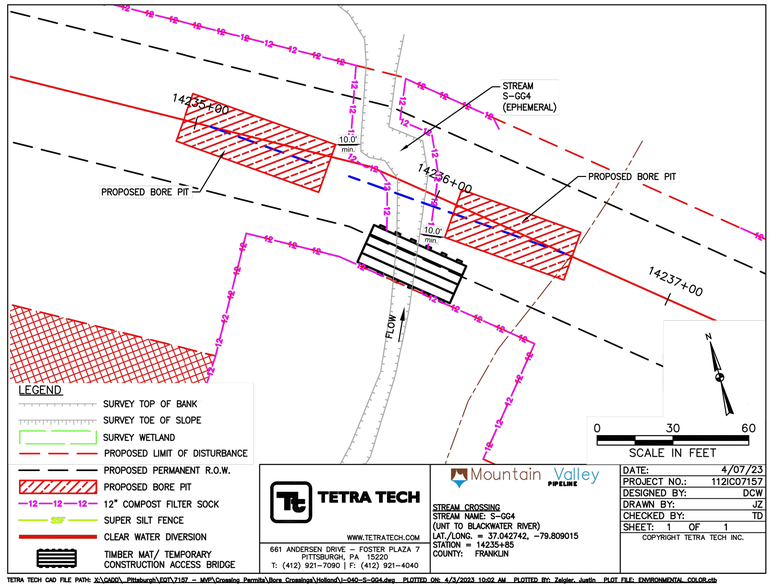
SHT. NO. 15.99AES OF 15.99ES

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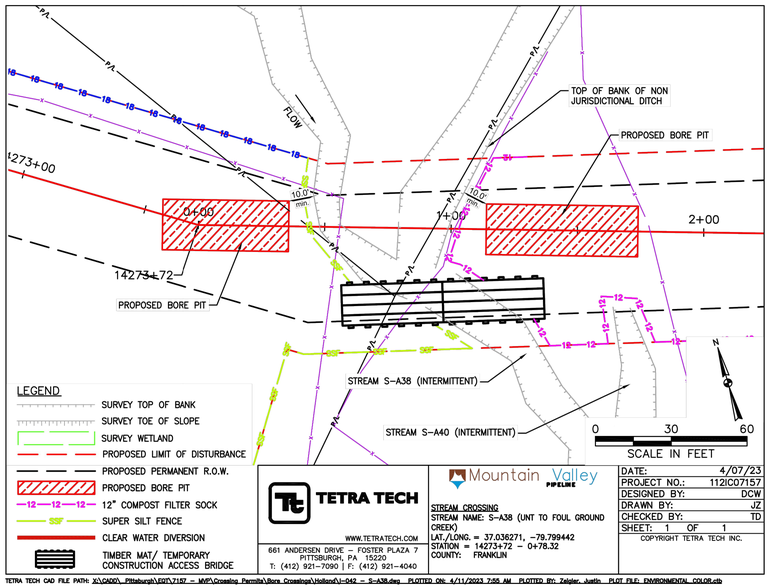
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BORE PIT STREAM CROSSING S-F9A
CROSSING ID I-039
PLAN VIEW



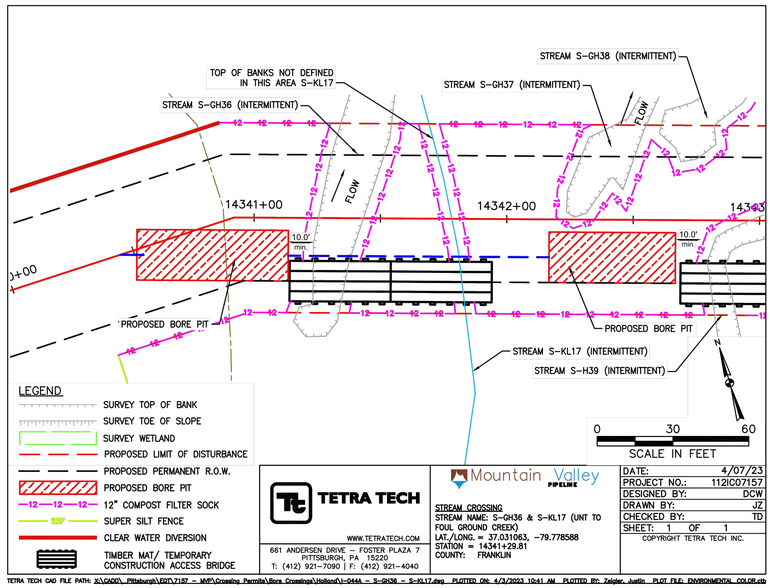
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BORE PIT STREAM CROSSING S-GG4
CROSSING ID I-040
PLAN VIEW



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BORE PIT STREAM CROSSING S-A38
CROSSING ID I-042
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-044A – S-GH36 – S-KL17.dwg PLOTTED ON: 4/3/2023 10:41 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-GH36, S-KL17
CROSSING ID I-044A
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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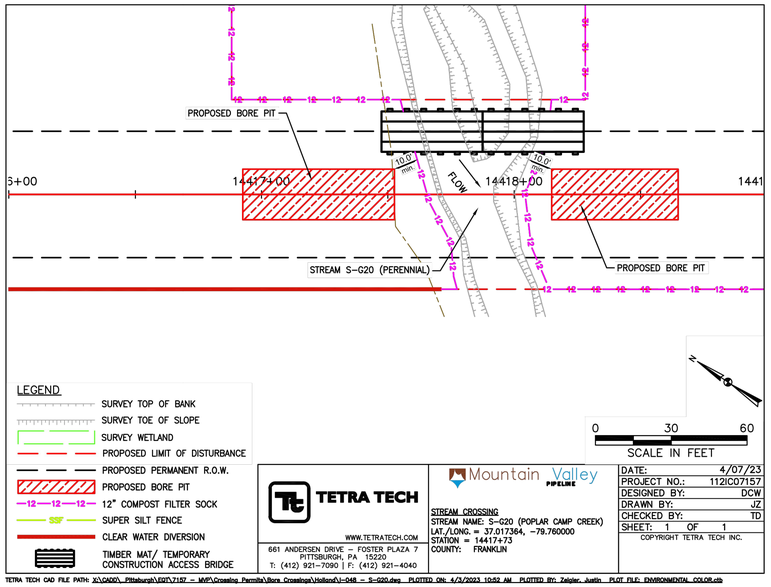
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	DCW
APPROVED BY:	TD
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–

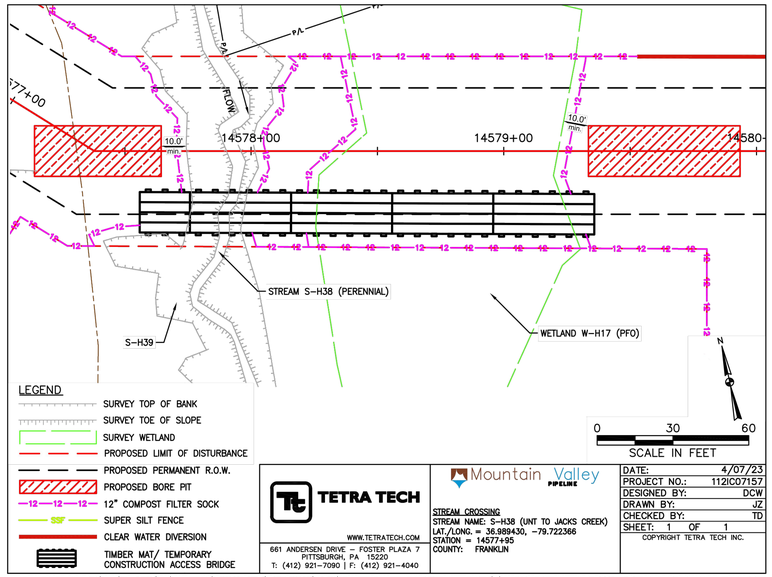
SHT. NO. 15.99BES OF 15.99ES

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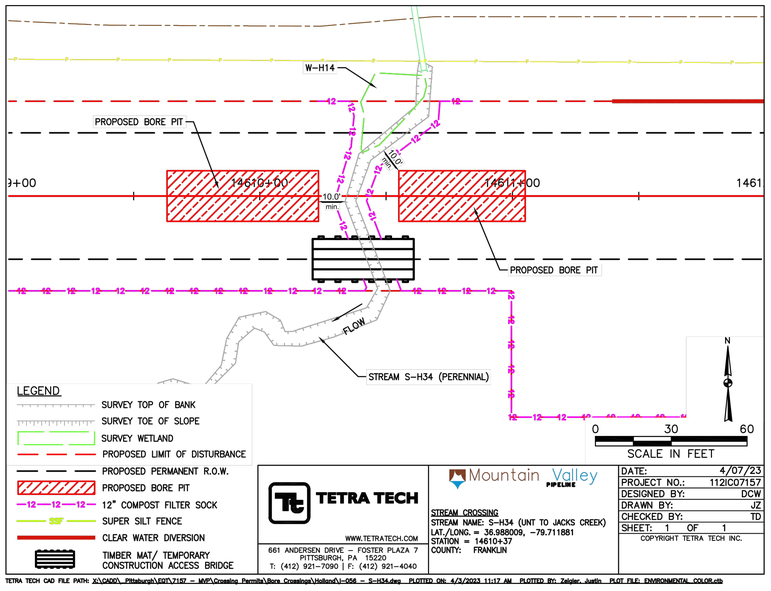
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BORE PIT STREAM CROSSING S-G20
CROSSING ID I-048
PLAN VIEW



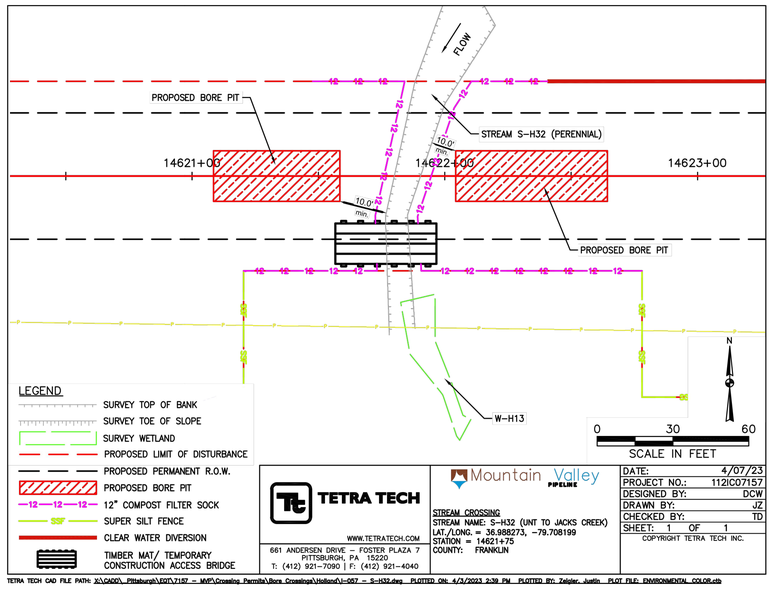
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BORE PIT STREAM CROSSING S-H38, W-H17
CROSSING ID I-053
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-056 – S-H34.dwg PLOTTED ON: 4/3/2023 11:17 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-H34
CROSSING ID I-056
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-057 – S-H32.dwg PLOTTED ON: 4/3/2023 2:39 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-H32
CROSSING ID I-057
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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EROSION AND SEDIMENT CONTROL PLANS

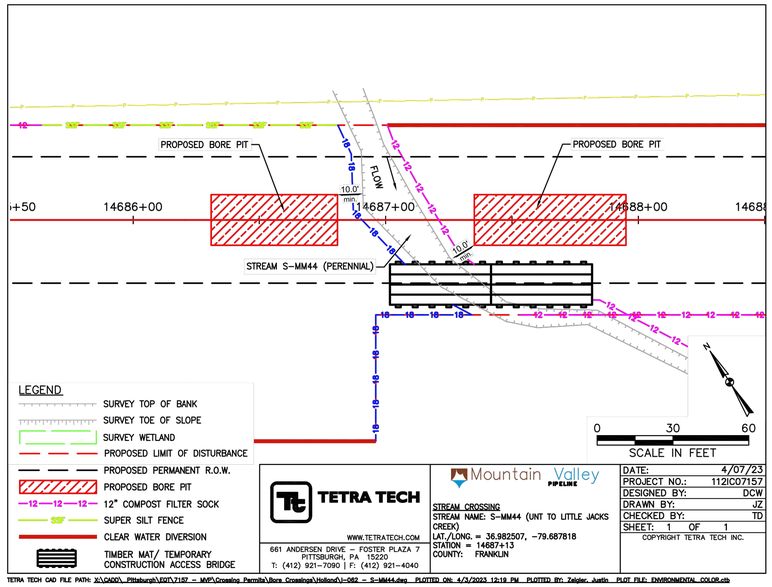
COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	DCW
APPROVED BY:	TD
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–

SHT. NO. 15.99CES OF 15.99ES

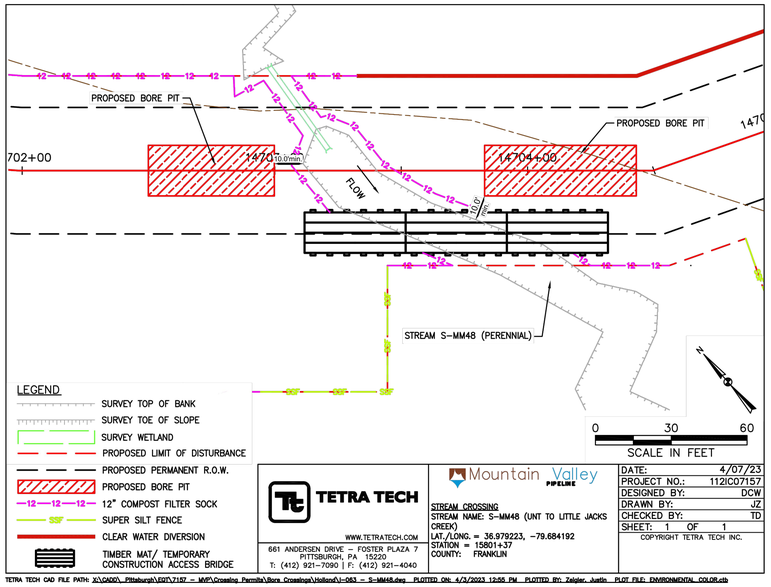
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BORE PIT STREAM CROSSING S-A19/H26, S-A20, CROSSING ID I-60B HAS BEEN CHANGED TO OPEN CUT



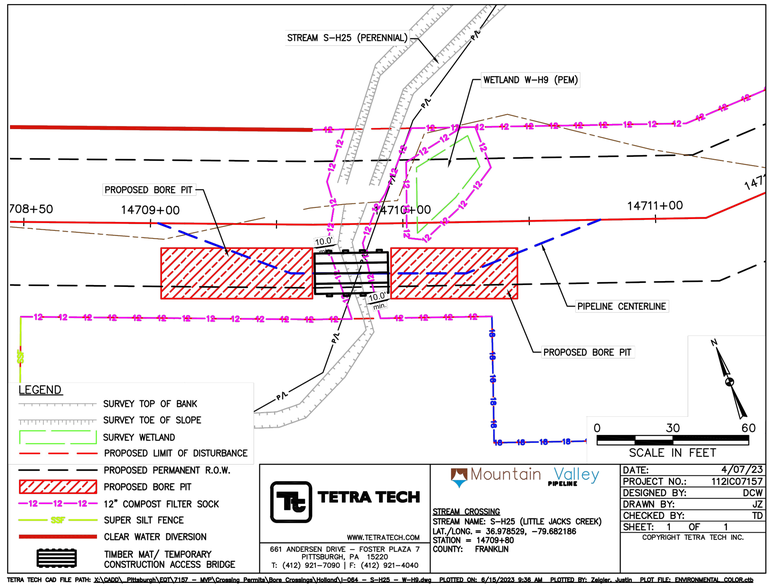
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BORE PIT STREAM CROSSING S-MM44
CROSSING ID I-062
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_ Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-063 – S-MM48.dwg PLOTTED ON: 4/3/2023 12:55 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-MM48
CROSSING ID I-063
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_ Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-064 – S-H25 – W-H9.dwg PLOTTED ON: 6/15/2023 9:36 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-H25
CROSSING ID I-064
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	09/18/23	JJZ	IHH	DCW	S-A20 CROSSING CHANGED TO OPEN CUT
–	06/16/23	JJZ	IHH	DCW	ADDRESS VADEO COMMENTS ON BORE PITS
–	04/07/23	JJZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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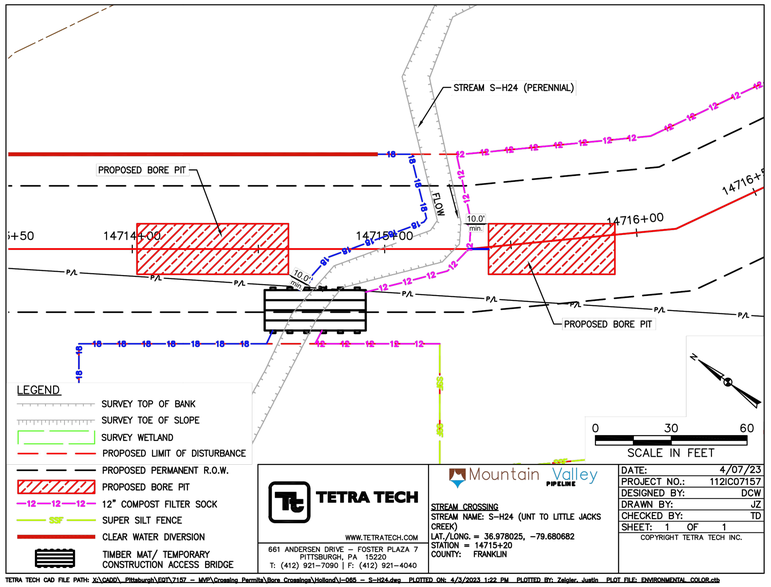
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
9/18/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	09/18/2023
SCALE:	AS SHOWN
REVISION	–

SHT. NO. 15.99DES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_ Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\Figures\Spread 11\7157ES15.99DES.dwg PLOTTED ON: 9/18/2023 10:51 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



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PITTSBURGH, PA 15220
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Mountain Valley PIPELINE

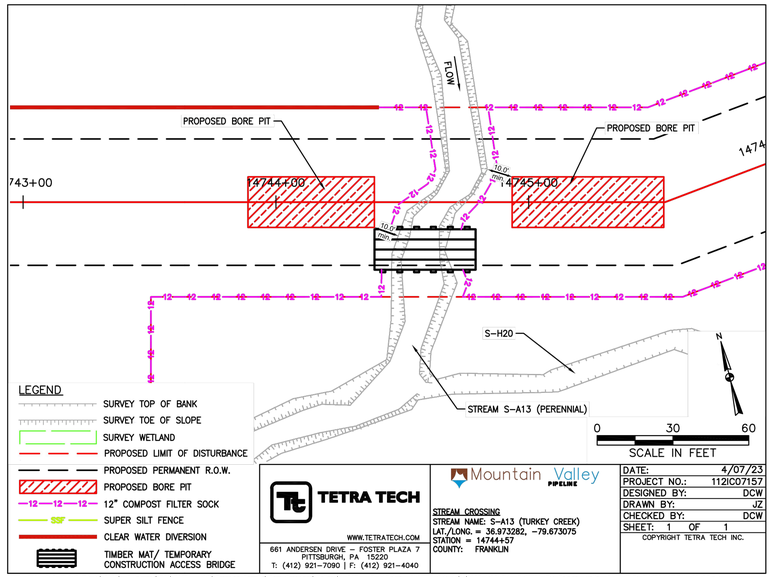
STREAM CROSSING
STREAM NAME: S-H24 (UNT TO LITTLE JACKS CREEK)
LAT./LONG. = 36.978025, -79.680682
STATION = 14715+20
COUNTY: FRANKLIN

DATE:	4/07/23
PROJECT NO.:	112IC07157
DESIGNED BY:	DCW
DRAWN BY:	JZ
CHECKED BY:	TD
SHEET:	1 OF 1

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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-065 – S-H24.dwg PLOTTED ON: 4/3/2023 1:22 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-H24
CROSSING ID I-065
PLAN VIEW



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PITTSBURGH, PA 15220
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Mountain Valley PIPELINE

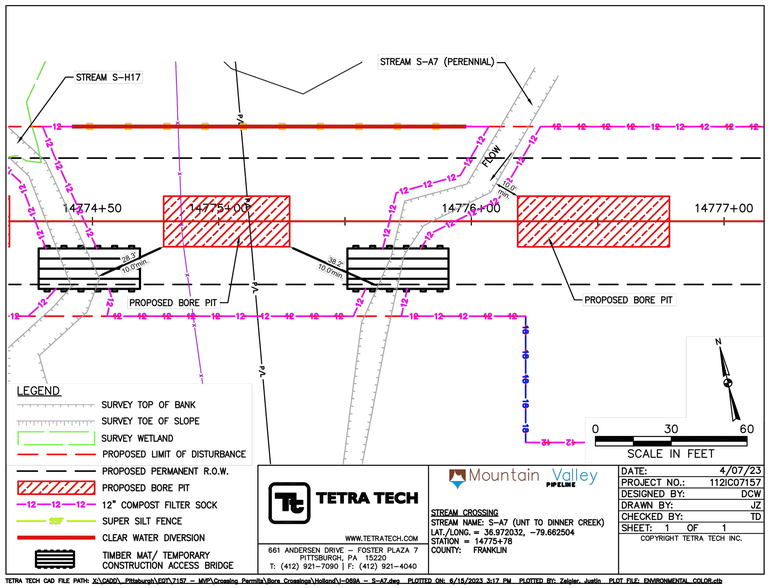
STREAM CROSSING
STREAM NAME: S-A13 (TURKEY CREEK)
LAT./LONG. = 36.973282, -79.673075
STATION = 14744+57
COUNTY: FRANKLIN

DATE:	4/07/23
PROJECT NO.:	112IC07157
DESIGNED BY:	DCW
DRAWN BY:	JZ
CHECKED BY:	DCW
SHEET:	1 OF 1

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TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-067 – S-A13.dwg PLOTTED ON: 4/3/2023 1:25 PM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-A13
CROSSING ID I-067
PLAN VIEW



TETRA TECH
661 ANDERSEN DRIVE – FOSTER PLAZA 7
PITTSBURGH, PA 15220
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Mountain Valley PIPELINE

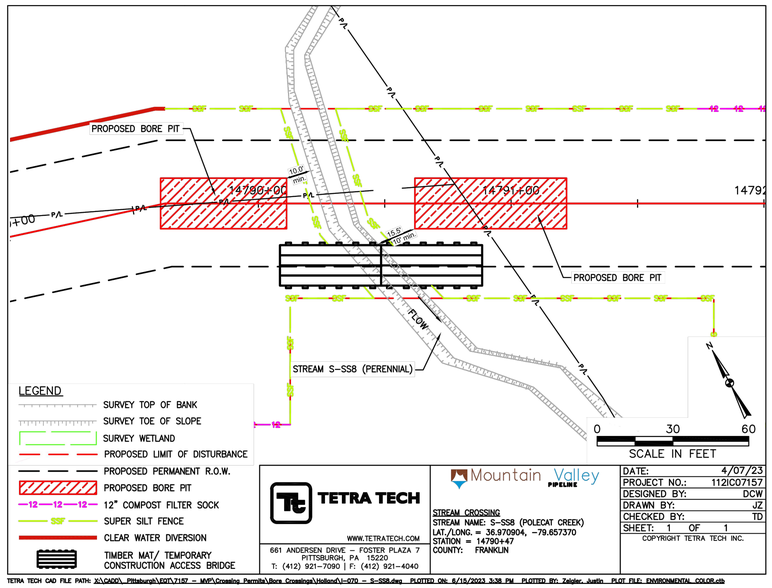
STREAM CROSSING
STREAM NAME: S-A7 (UNT TO DINNER CREEK)
LAT./LONG. = 36.972032, -79.662504
STATION = 14775+78
COUNTY: FRANKLIN

DATE:	4/07/23
PROJECT NO.:	112IC07157
DESIGNED BY:	DCW
DRAWN BY:	JZ
CHECKED BY:	TD
SHEET:	1 OF 1

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BORE PIT STREAM CROSSING S-A7
CROSSING ID I-069A
PLAN VIEW



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Mountain Valley PIPELINE

STREAM CROSSING
STREAM NAME: S-SS8 (POLECAT CREEK)
LAT./LONG. = 36.970904, -79.657370
STATION = 14790+47
COUNTY: FRANKLIN

DATE:	4/07/23
PROJECT NO.:	112IC07157
DESIGNED BY:	DCW
DRAWN BY:	JZ
CHECKED BY:	TD
SHEET:	1 OF 1

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BORE PIT STREAM CROSSING S-SS8
CROSSING ID I-070
PLAN VIEW

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	06/16/23	JZ	IHH	DCW	ADDRESS VALVED COMMENTS ON BORE PITS
–	04/07/23	JZ	TD	DCW	BORE CROSSING PERMITS

REVISIONS:

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
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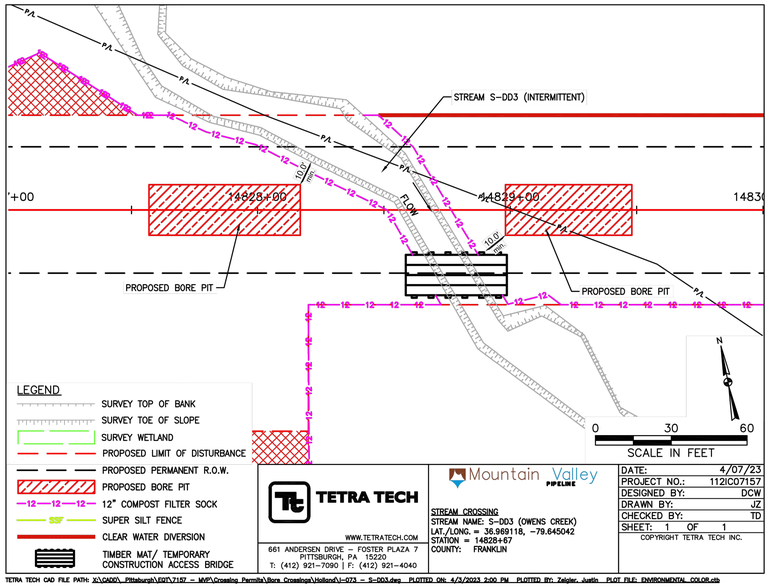
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
6/16/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	06/16/2023
SCALE:	AS SHOWN
REVISION	–

SHT. NO. 15.99EES OF 15.99ES

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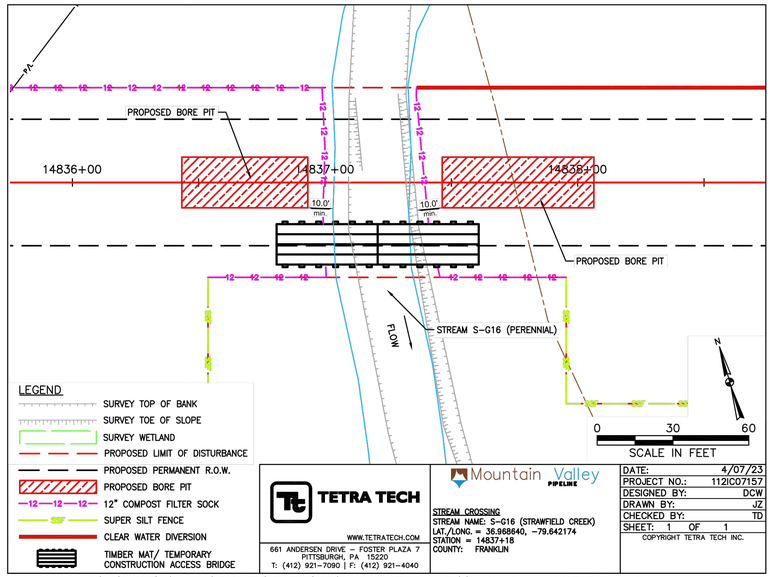
Mountain Valley PIPELINE

STREAM CROSSING
STREAM NAME: S-DD3 (OWENS CREEK)
LAT./LONG. = 36.969118, -79.645042
STATION = 14828+67
COUNTY: FRANKLIN

DATE:	4/07/23
PROJECT NO.:	112IC07157
DESIGNED BY:	DCW
DRAWN BY:	JZ
CHECKED BY:	TD
SHEET:	1 OF 1

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BORE PIT STREAM CROSSING S-DD3
CROSSING ID I-073
PLAN VIEW



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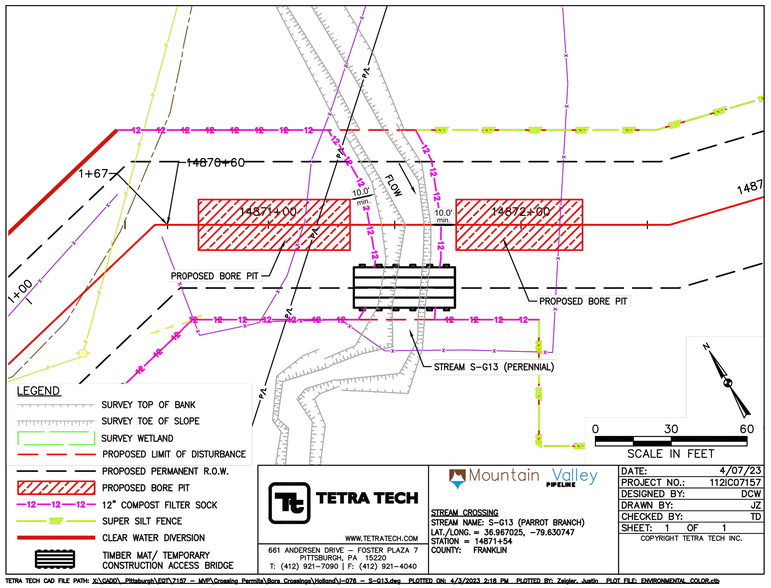
Mountain Valley PIPELINE

STREAM CROSSING
STREAM NAME: S-G16 (STRAWFIELD CREEK)
LAT./LONG. = 36.968640, -79.642174
STATION = 14837+18
COUNTY: FRANKLIN

DATE:	4/07/23
PROJECT NO.:	112IC07157
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BORE PIT STREAM CROSSING S-G16
CROSSING ID I-074
PLAN VIEW



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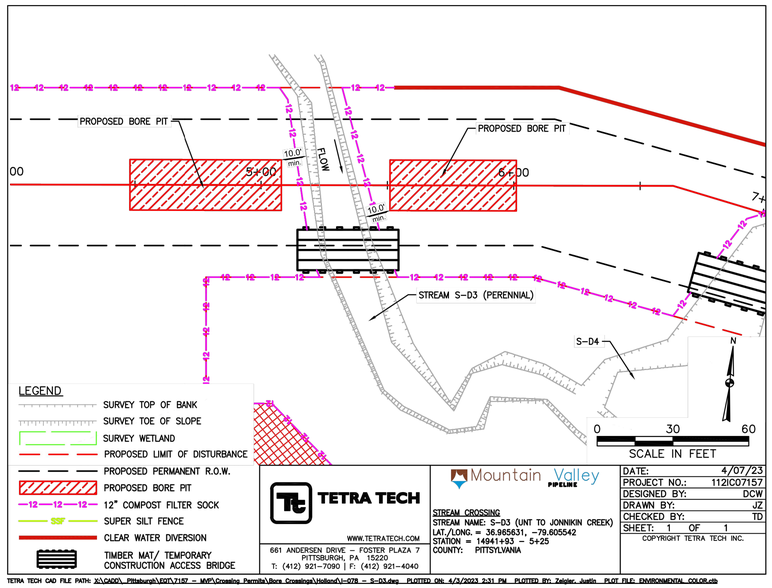
Mountain Valley PIPELINE

STREAM CROSSING
STREAM NAME: S-G13 (PARROT BRANCH)
LAT./LONG. = 36.967025, -79.630747
STATION = 14871+54
COUNTY: FRANKLIN

DATE:	4/07/23
PROJECT NO.:	112IC07157
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BORE PIT STREAM CROSSING S-G13
CROSSING ID I-076
PLAN VIEW



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Mountain Valley PIPELINE

STREAM CROSSING
STREAM NAME: S-D3 (UNT TO JONNIKIN CREEK)
LAT./LONG. = 36.965631, -79.605542
STATION = 14941+93 – 5+25
COUNTY: PITTSYLVANIA

DATE:	4/07/23
PROJECT NO.:	112IC07157
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BORE PIT STREAM CROSSING S-D3
CROSSING ID I-078
PLAN VIEW

REVISIONS:

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–	04/07/23	JJZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

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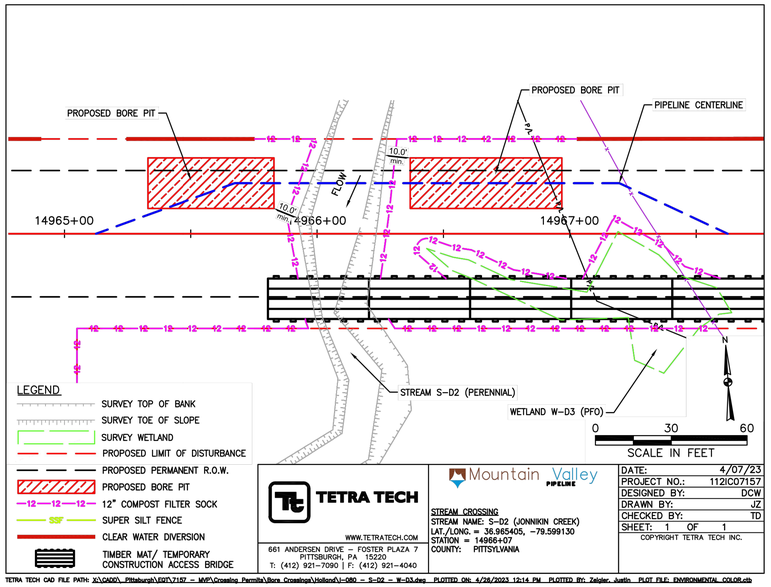
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
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APPROVED BY:	TD
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–

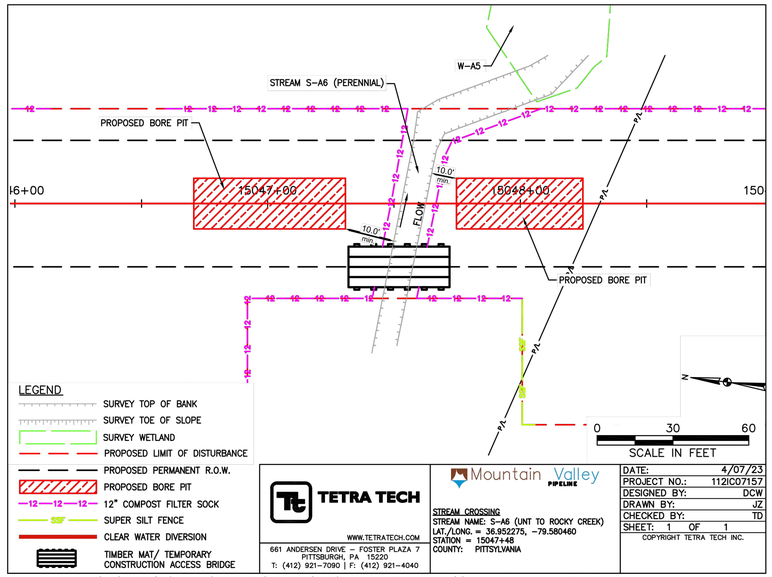
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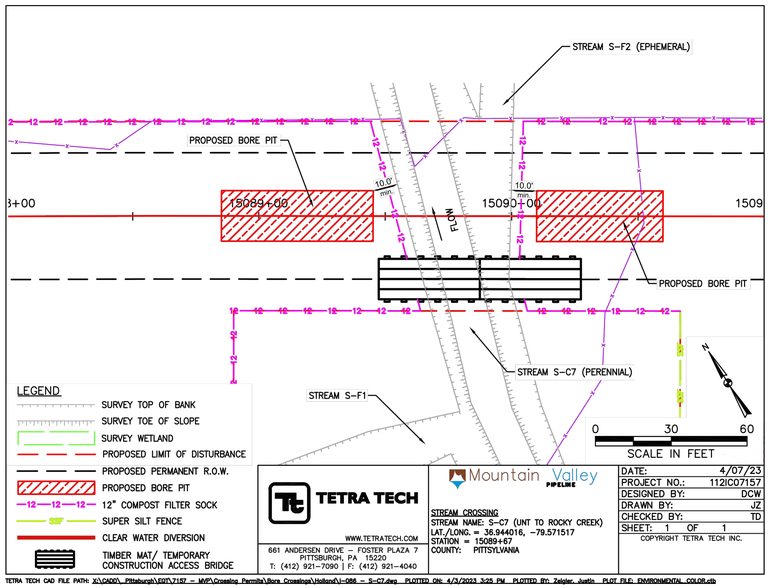
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BORE PIT STREAM CROSSING S-D2
CROSSING ID I-080
PLAN VIEW



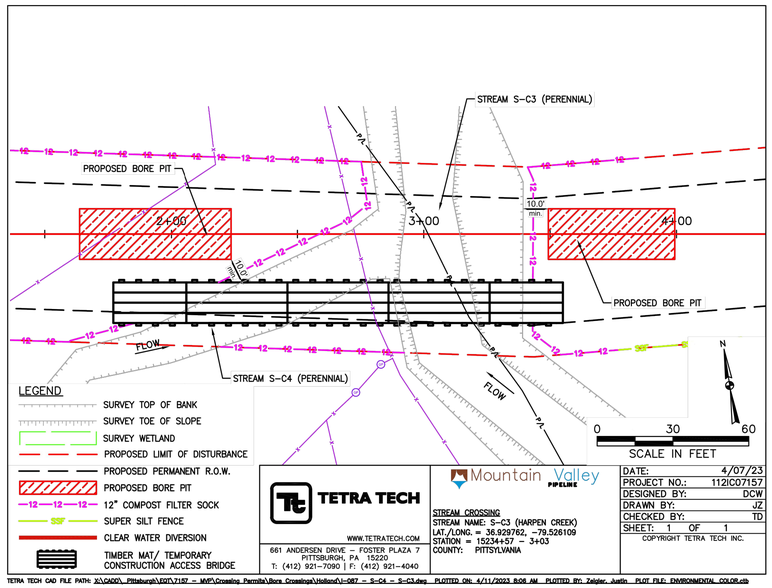
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BORE PIT STREAM CROSSING S-A6
CROSSING ID I-085
PLAN VIEW



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BORE PIT STREAM CROSSING S-C7
CROSSING ID I-086
PLAN VIEW



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BORE PIT STREAM CROSSING S-C4, S-C3
CROSSING ID I-087
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
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EROSION AND SEDIMENT CONTROL PLANS

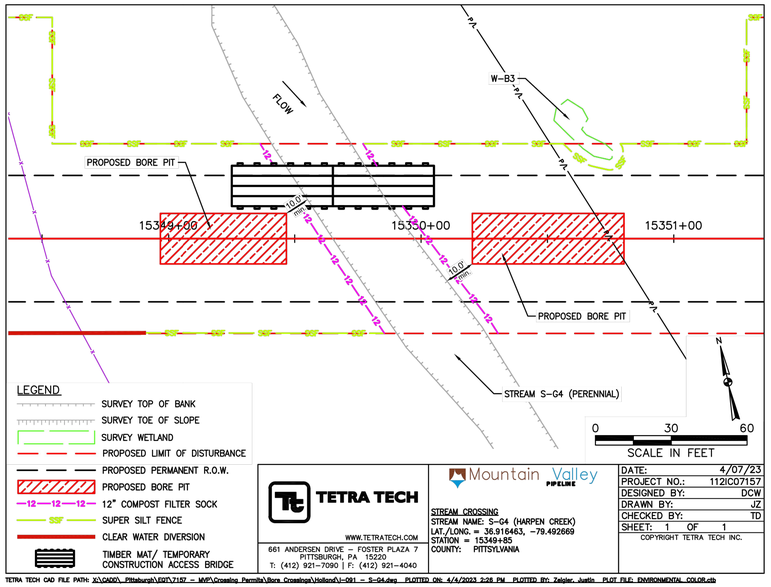
COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	DCW
APPROVED BY:	TD
DATE:	04/07/2023
SCALE:	AS SHOWN

– REVISION

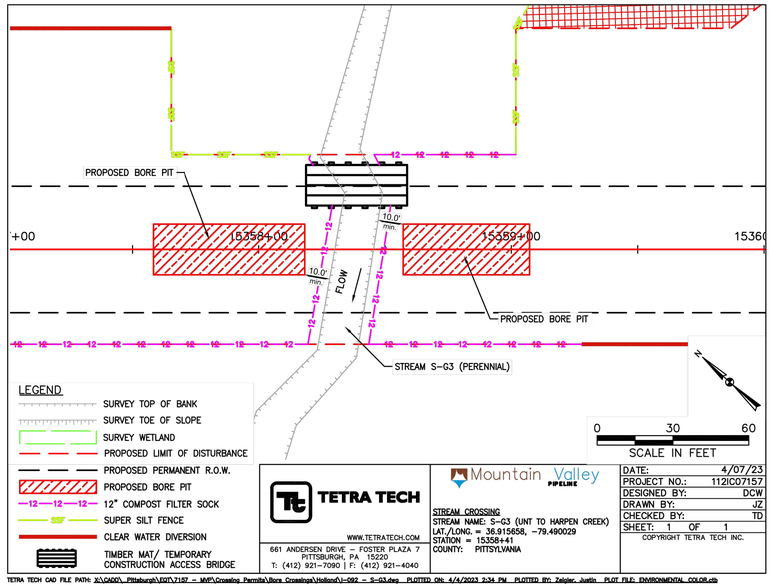
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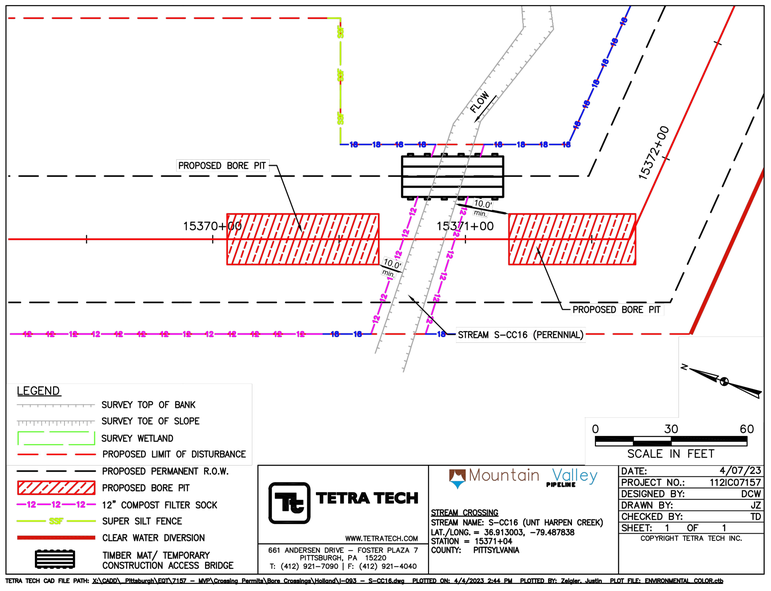
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BORE PIT STREAM CROSSING S-G4
CROSSING ID I-091
PLAN VIEW



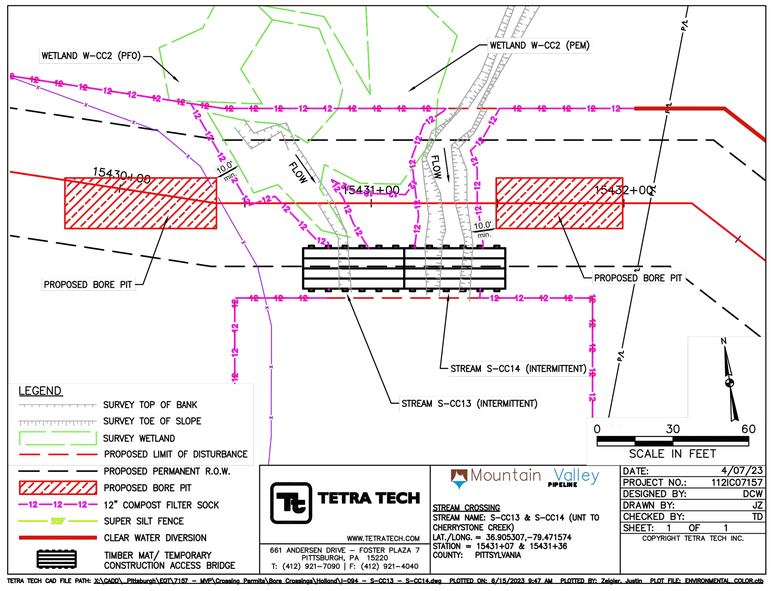
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BORE PIT STREAM CROSSING S-G3
CROSSING ID I-092
PLAN VIEW



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BORE PIT STREAM CROSSING S-CC16
CROSSING ID I-093
PLAN VIEW



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BORE PIT STREAM CROSSING S-CC13, W-CC2, S-CC14
CROSSING ID I-094
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	06/16/23	JZ	IHH	DCW	ADDRESS VALVED COMMENTS ON BORE PITS
–	04/07/23	JZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
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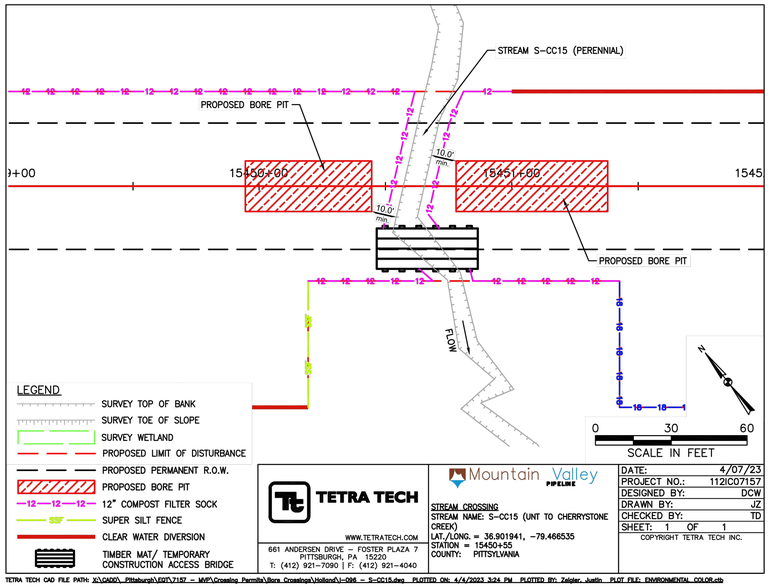
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
6/16/23
DANIEL C. WITT
Lic. No. 6509
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	06/16/2023
SCALE:	AS SHOWN
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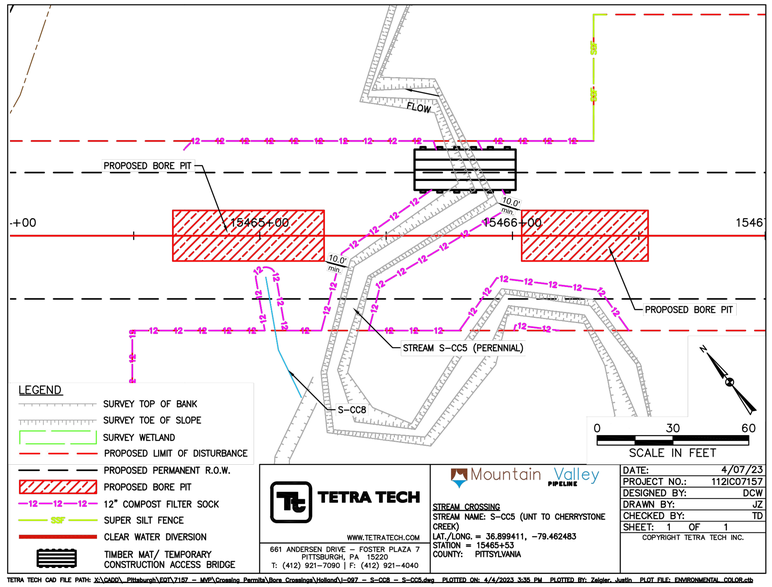
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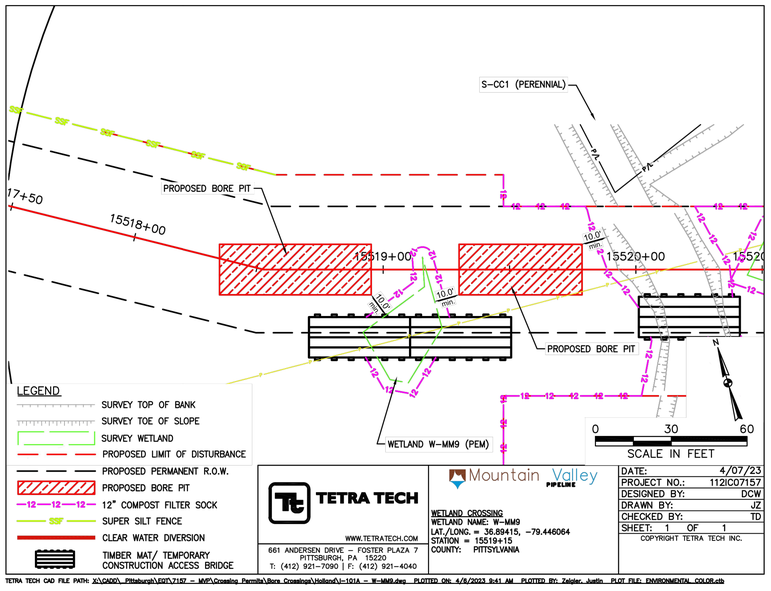
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BORE PIT STREAM CROSSING S-CC15
CROSSING ID I-096
PLAN VIEW



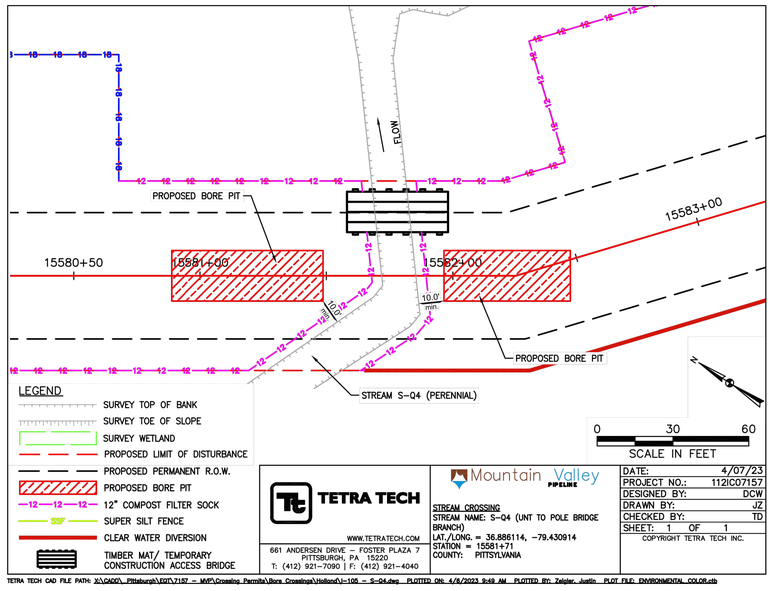
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BORE PIT STREAM CROSSING S-CC5
CROSSING ID I-097
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\Figures\Spread 11\7157-W-MM9.dwg PLOTTED ON: 4/6/2023 9:41 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING W-MM9
CROSSING ID I-101A
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-105 – S-Q4.dwg PLOTTED ON: 4/6/2023 9:49 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-Q4
CROSSING ID I-105
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JJZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
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EROSION AND SEDIMENT CONTROL PLANS

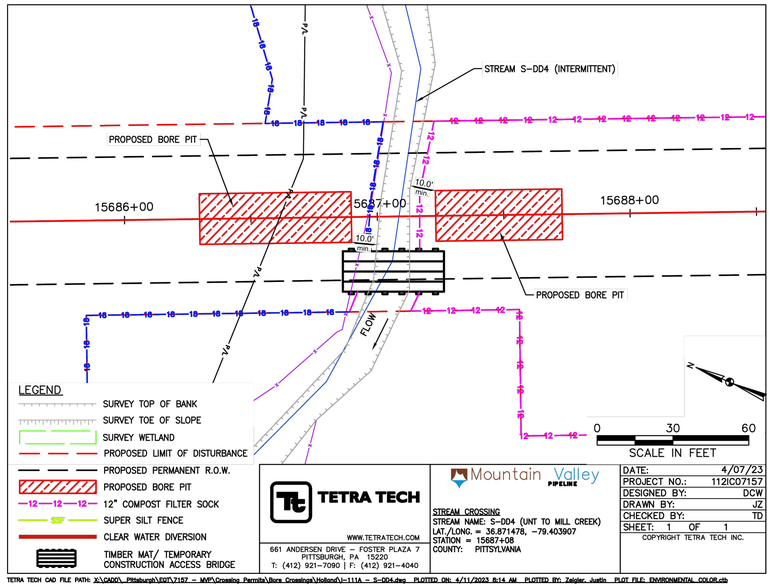
COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	DCW
APPROVED BY:	TD
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–

SHT. NO. 15.99IES OF 15.99ES

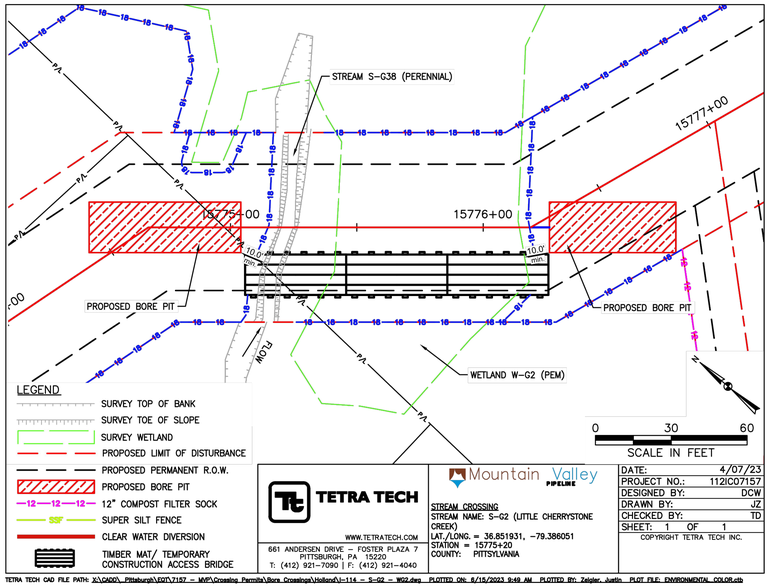
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BORE PIT STREAM CROSSING S-Q2
CROSSING ID I-106A HAS BEEN CHANGED TO OPEN CUT



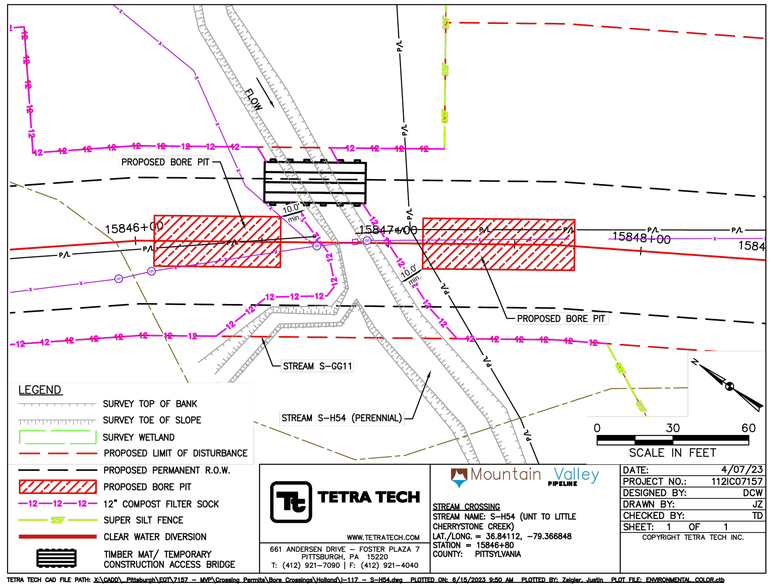
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BORE PIT STREAM CROSSING S-DD4
CROSSING ID I-111A
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-114 – S-G2 – WG2.dwg PLOTTED ON: 8/15/2023 9:49 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-G2, W-G2
CROSSING ID I-114
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\I-117 – S-H54.dwg PLOTTED ON: 8/15/2023 9:50 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-H54
CROSSING ID I-117
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	11/29/23	JJZ	IHH	DCW	S-Q2 CROSSING CHANGED TO OPEN CUT
–	06/16/23	JJZ	IHH	DCW	ADDRESS VADEQ COMMENTS ON BORE PITS
–	04/07/23	JJZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
2200 ENERGY DRIVE
CANONSBURG, PA 15317

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

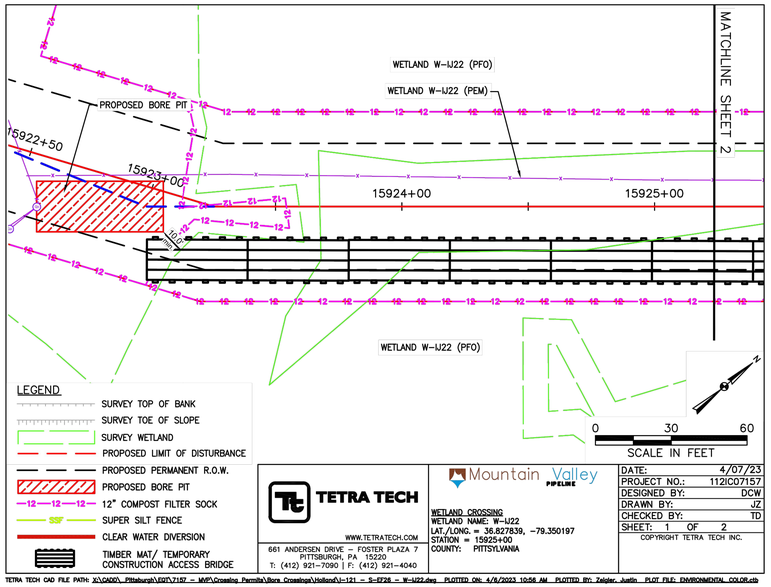
EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
11/29/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	11/29/2023
SCALE:	AS SHOWN
REVISION	–

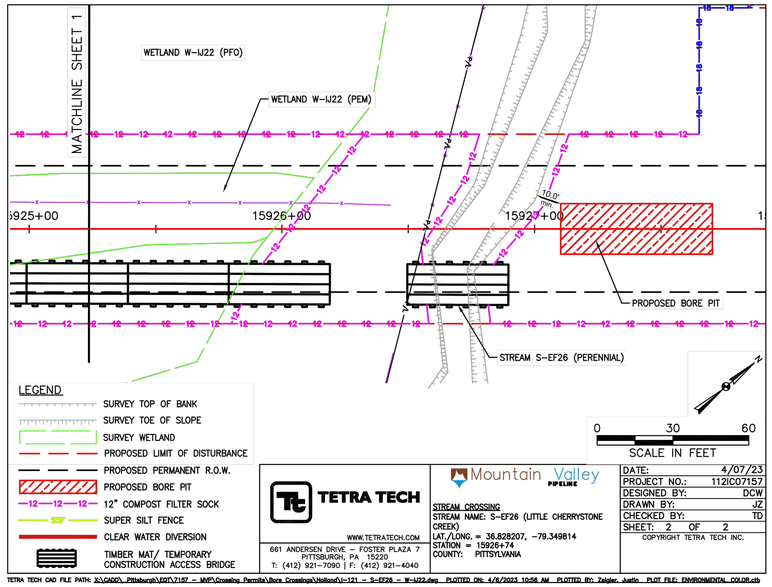
SHT. NO. 15.99JES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\Figures\Spread 11\7157ES15.99JES.dwg PLOTTED ON: 11/29/2023 8:32 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb



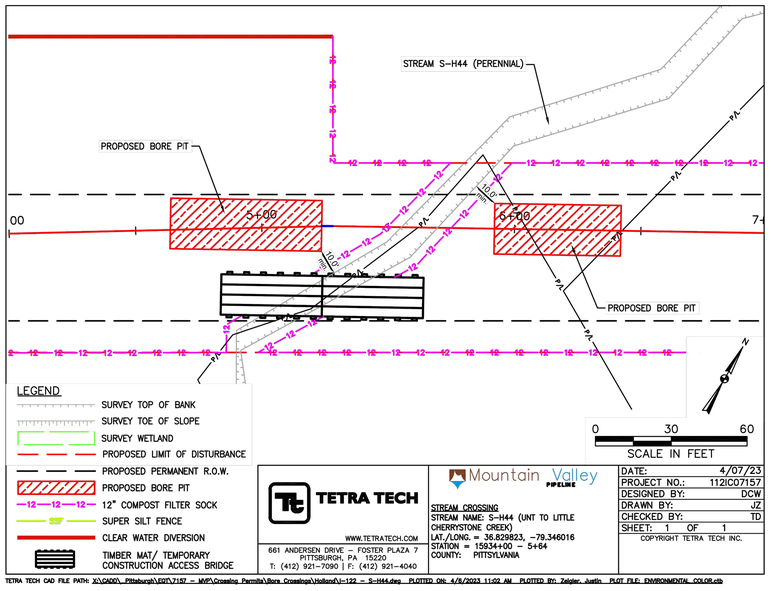
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BORE PIT STREAM CROSSING S-EF26, W-IJ22
CROSSING ID I-121
PLAN VIEW



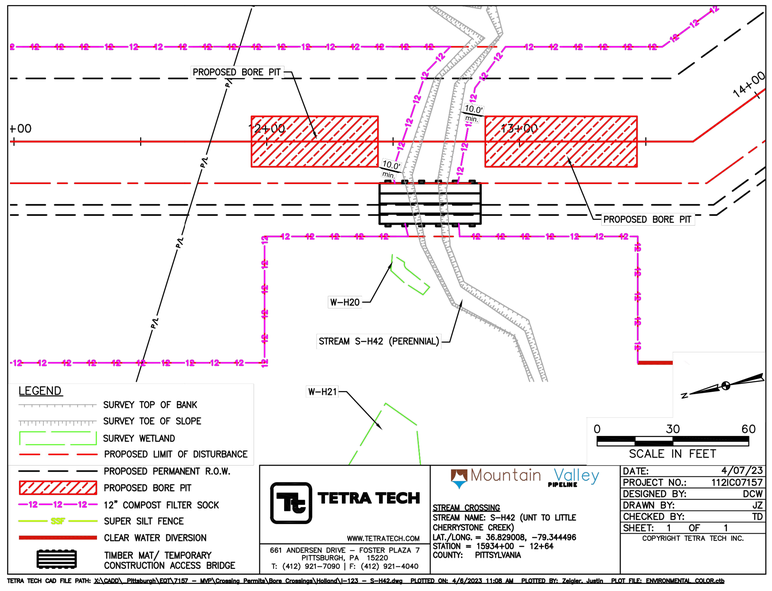
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BORE PIT STREAM CROSSING S-EF26, W-IJ22
CROSSING ID I-121
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\Figures\Spread 11\122 – S-H44.dwg PLOTTED ON: 4/6/2023 11:02 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-H44
CROSSING ID I-122
PLAN VIEW



TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\Figures\Spread 11\123 – S-H42.dwg PLOTTED ON: 4/6/2023 11:08 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb

BORE PIT STREAM CROSSING S-H42
CROSSING ID I-123
PLAN VIEW

REVISIONS:

NO.:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
–	04/07/23	JZ	TD	DCW	BORE CROSSING PERMITS

Mountain Valley PIPELINE

EROSION AND SEDIMENT CONTROL PLANS
MOUNTAIN VALLEY PIPELINE PROJECT – H600 LINE
SPREAD 11 – FRANKLIN – PITTSYLVANIA COUNTY, VIRGINIA

MOUNTAIN VALLEY PIPELINE, LLC
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EROSION AND SEDIMENT CONTROL PLANS

COMMONWEALTH OF VIRGINIA
4/7/23
DANIEL C. WITT
Lic. No. 65093
PROFESSIONAL ENGINEER

DRAWN BY:	JZ
CHECKED BY:	DCW
APPROVED BY:	TD
DATE:	04/07/2023
SCALE:	AS SHOWN
REVISION	–

SHT. NO. 15.99KES OF 15.99ES

TETRA TECH CAD FILE PATH: X:\CADD_Pittsburgh\EQT\7157 – MVP\Crossing Permits\Bore Crossings\Holland\Figures\Spread 11\7157ES15.99KES.dwg PLOTTED ON: 4/6/2023 11:29 AM PLOTTED BY: Zeigler, Justin PLOT FILE: ENVIRONMENTAL_COLOR.ctb