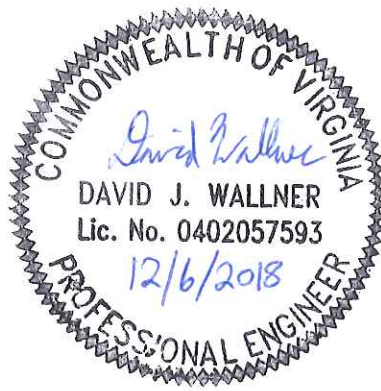
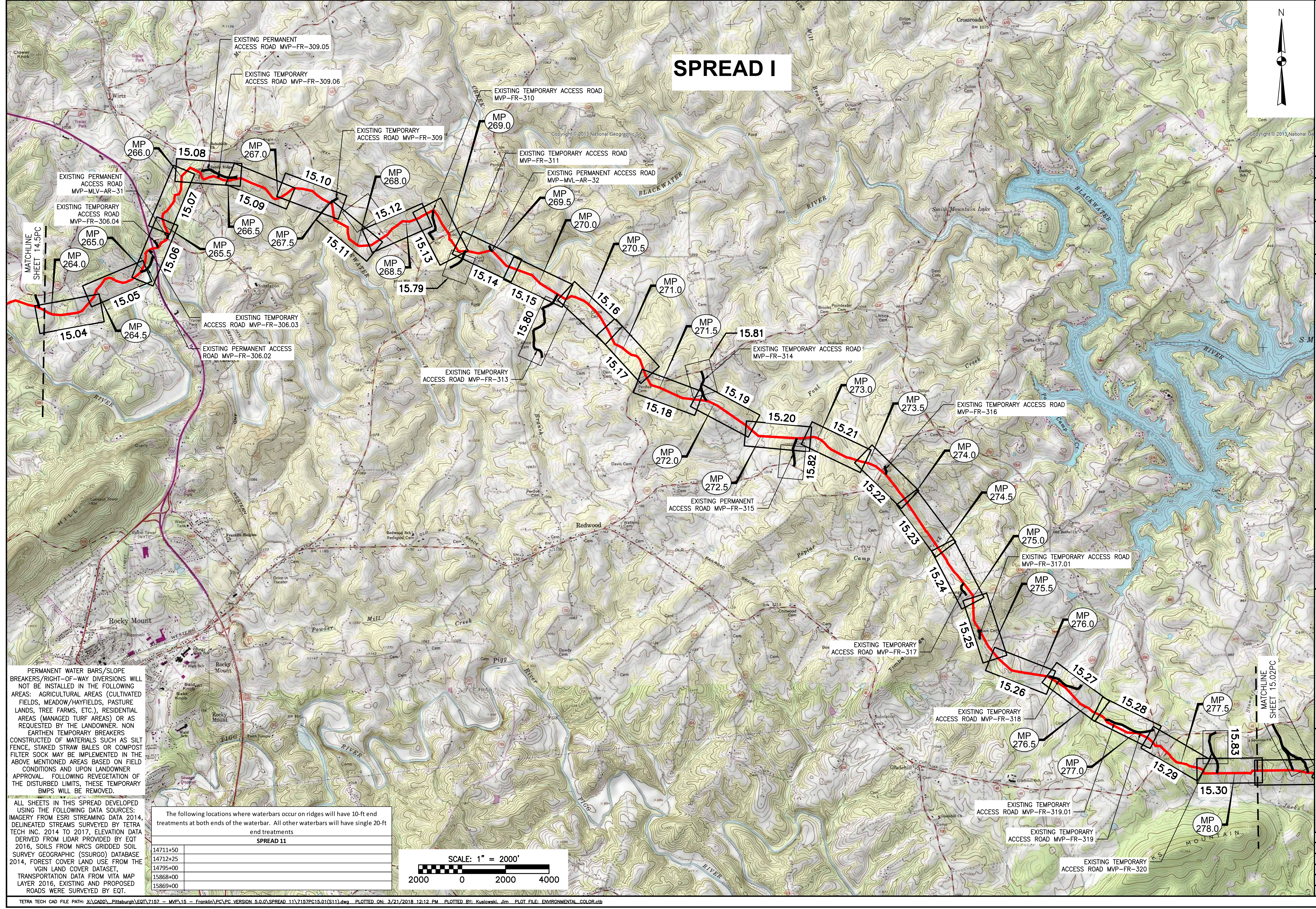
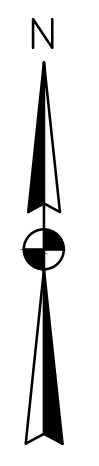


By virtue of this seal and signature, all supporting documents included in this package are accurate and support the design presented herein.



SPREAD I

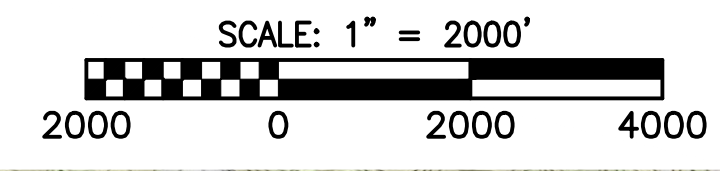


PERMANENT WATER BARS/SLOPE BREAKERS/RIGHT-OF-WAY DIVERSIONS WILL NOT BE INSTALLED IN THE FOLLOWING AREAS: AGRICULTURAL AREAS (CULTIVATED FIELDS, MEADOW/HAYFIELDS, PASTURE LANDS, TREE FARMS, ETC.), RESIDENTIAL AREAS (MANAGED TURF AREAS) OR AS REQUESTED BY THE LANDOWNER. NON EARTHEN TEMPORARY BREAKERS CONSTRUCTED OF MATERIALS SUCH AS SILT FENCE, STAKED STRAW BALES OR COMPOST FILTER SOCK MAY BE IMPLEMENTED IN THE ABOVE MENTIONED AREAS BASED ON FIELD CONDITIONS AND UPON LANDOWNER APPROVAL. FOLLOWING REVEGETATION OF THE DISTURBED LIMITS, THESE TEMPORARY Bmps WILL BE REMOVED.

ALL SHEETS IN THIS SPREAD DEVELOPED USING THE FOLLOWING DATA SOURCES: IMAGERY FROM ESRI STREAMING DATA 2014, DELINEATED STREAMS SURVEYED BY TETRA TECH INC. 2014 TO 2017, ELEVATION DATA DERIVED FROM LIDAR PROVIDED BY EQT 2016, SOILS FROM NRCS GRIDDED SOIL SURVEY GEOGRAPHIC (SSURGO) DATABASE 2014, FOREST COVER LAND USE FROM THE VGIN LAND COVER DATASET, TRANSPORTATION DATA FROM VITA MAP LAYER 2016, EXISTING AND PROPOSED ROADS WERE SURVEYED BY EQT.

The following locations where waterbars occur on ridges will have 10-ft end treatments at both ends of the waterbar. All other waterbars will have single 20-ft end treatments

SPREAD 11	
14711+50	
14712+25	
14795+00	
15868+00	
15869+00	

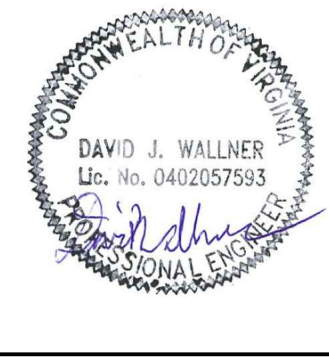


NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADED COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADED COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADED COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADED COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

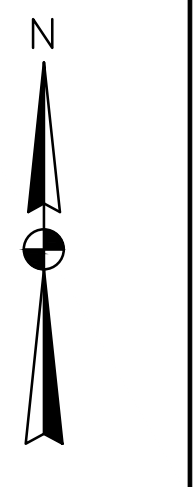
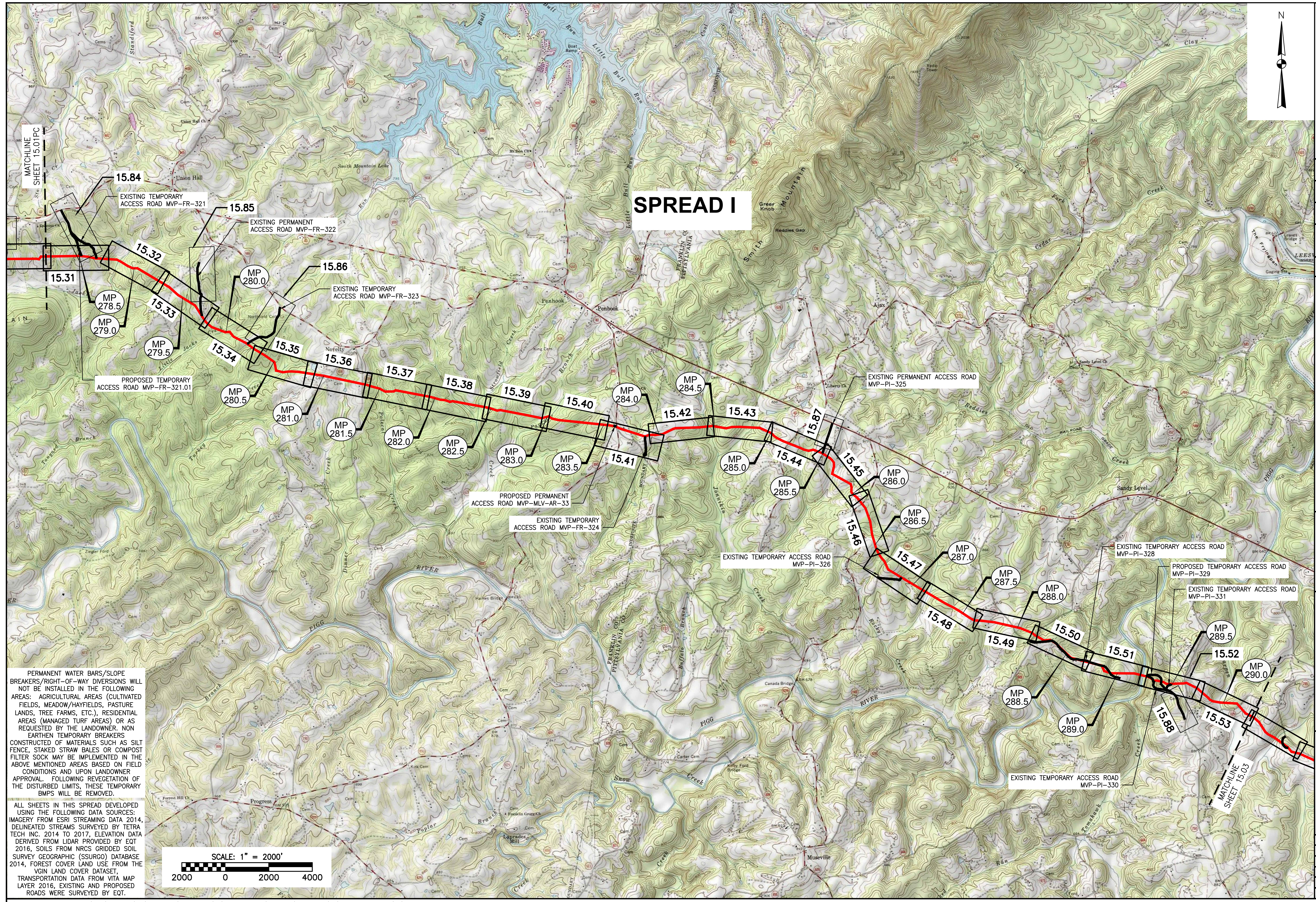
Mountain Valley Pipeline
KEY PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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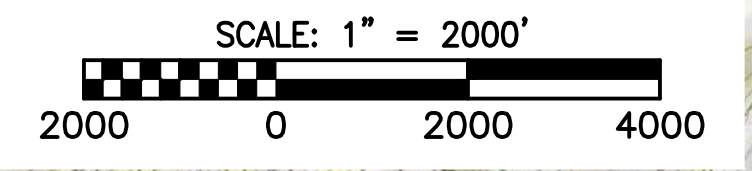
DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.01PC OF 15.93PC



SPREAD I

PERMANENT WATER BARS/SLOPE BREAKERS/RIGHT-OF-WAY DIVERSIONS WILL NOT BE INSTALLED IN THE FOLLOWING AREAS: AGRICULTURAL AREAS (CULTIVATED FIELDS, MEADOW/HAYFIELDS, PASTURE LANDS, TREE FARMS, ETC.), RESIDENTIAL AREAS (MANAGED TURF AREAS) OR AS REQUESTED BY THE LANDOWNER. NON EARTHEN TEMPORARY BREAKERS CONSTRUCTED OF MATERIALS SUCH AS SILT FENCE, STAKED STRAW BALES OR COMPOST FILTER SOCK MAY BE IMPLEMENTED IN THE ABOVE MENTIONED AREAS BASED ON FIELD CONDITIONS AND UPON LANDOWNER APPROVAL. FOLLOWING REVEGETATION OF THE DISTURBED LIMITS, THESE TEMPORARY BMPs WILL BE REMOVED.

ALL SHEETS IN THIS SPREAD DEVELOPED USING THE FOLLOWING DATA SOURCES: IMAGERY FROM ESRI STREAMING DATA 2014, DELINEATED STREAMS SURVEYED BY TETRA TECH INC. 2014 TO 2017, ELEVATION DATA DERIVED FROM LIDAR PROVIDED BY EQT 2016, SOILS FROM NRCS GRIDDED SOIL SURVEY GEOGRAPHIC (SSURGO) DATABASE 2014, FOREST COVER LAND USE FROM THE VOIN LAND COVER DATASET, TRANSPORTATION DATA FROM VITA MAP LAYER 2016. EXISTING AND PROPOSED ROADS WERE SURVEYED BY EQT.

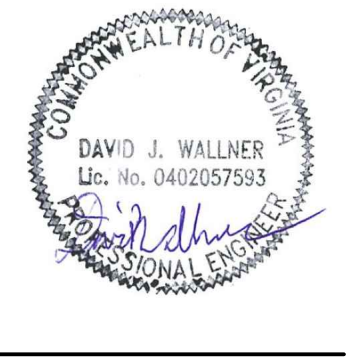


NO.	DATE	CHKD.	DWN.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	DW	ADDRESS VADED COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADED COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADED COMMENTS
3	02/20/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADED COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

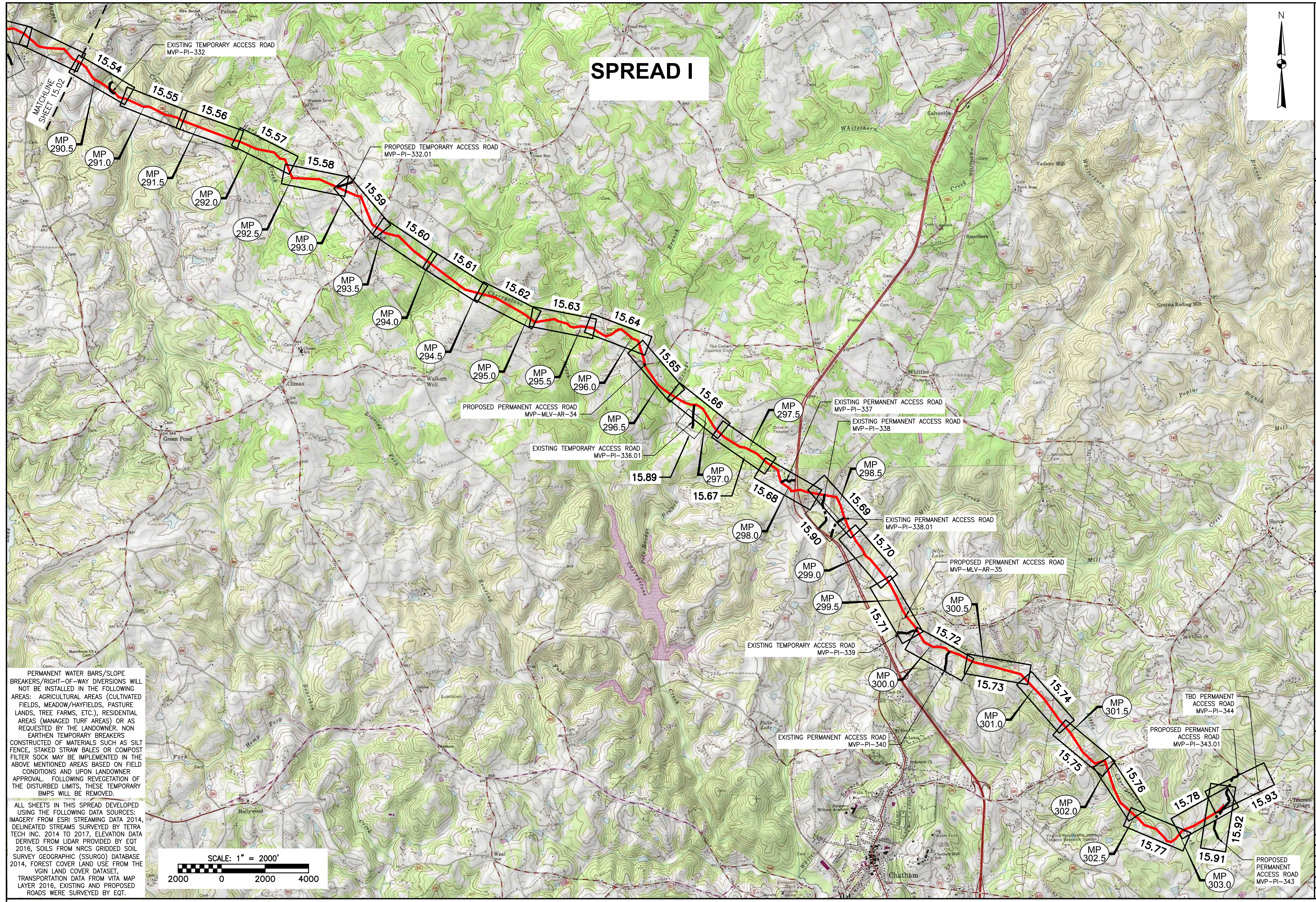
Mountain Valley Pipeline
KEY PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS



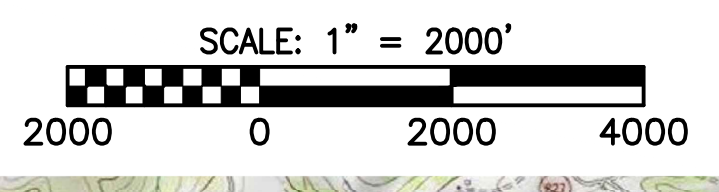
DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.02PC OF 15.93PC



SPREAD I

PERMANENT WATER BARS/SLOPE BREAKERS/RIGHT-OF-WAY DIVERSIONS WILL NOT BE INSTALLED IN THE FOLLOWING AREAS: AGRICULTURAL AREAS (CULTIVATED FIELDS, MEADOW/HAYFIELDS, PASTURE LANDS, TREE FARMS, ETC.), RESIDENTIAL AREAS (MANAGED TURF AREAS) OR AS REQUESTED BY THE LANDOWNER. NON EARTHEN TEMPORARY BREAKERS CONSTRUCTED OF MATERIALS SUCH AS SILT FENCE, STAKED STRAW BALES OR COMPOST FILTER SOCK MAY BE IMPLEMENTED IN THE ABOVE MENTIONED AREAS BASED ON FIELD CONDITIONS AND UPON LANDOWNER APPROVAL. FOLLOWING REVEGETATION OF THE DISTURBED LIMITS, THESE TEMPORARY Bmps WILL BE REMOVED.

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADED COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADED COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

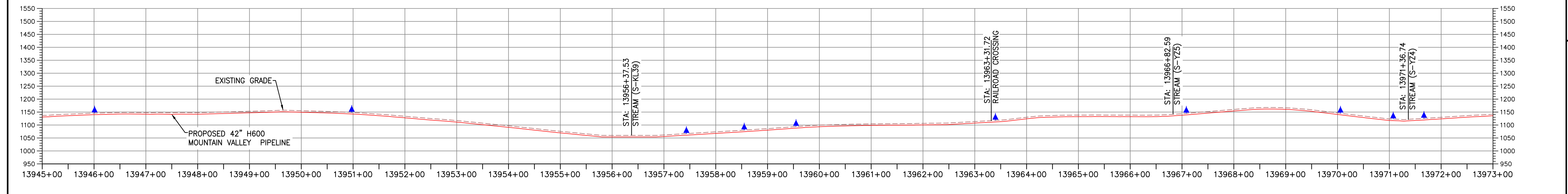
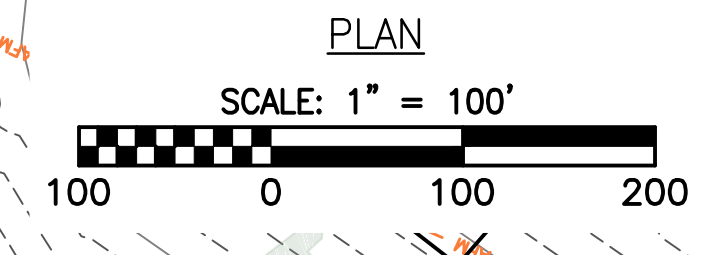
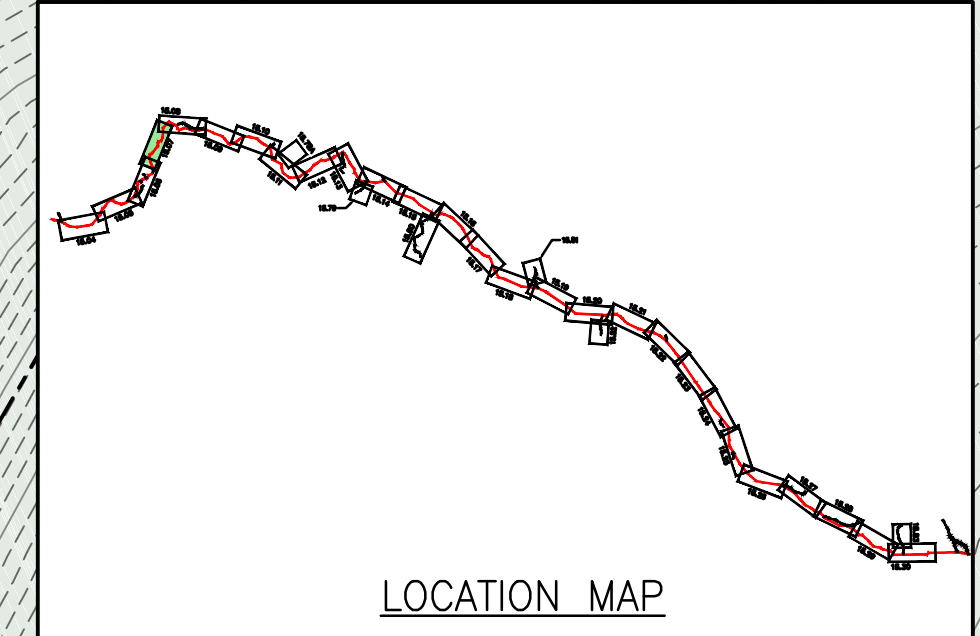
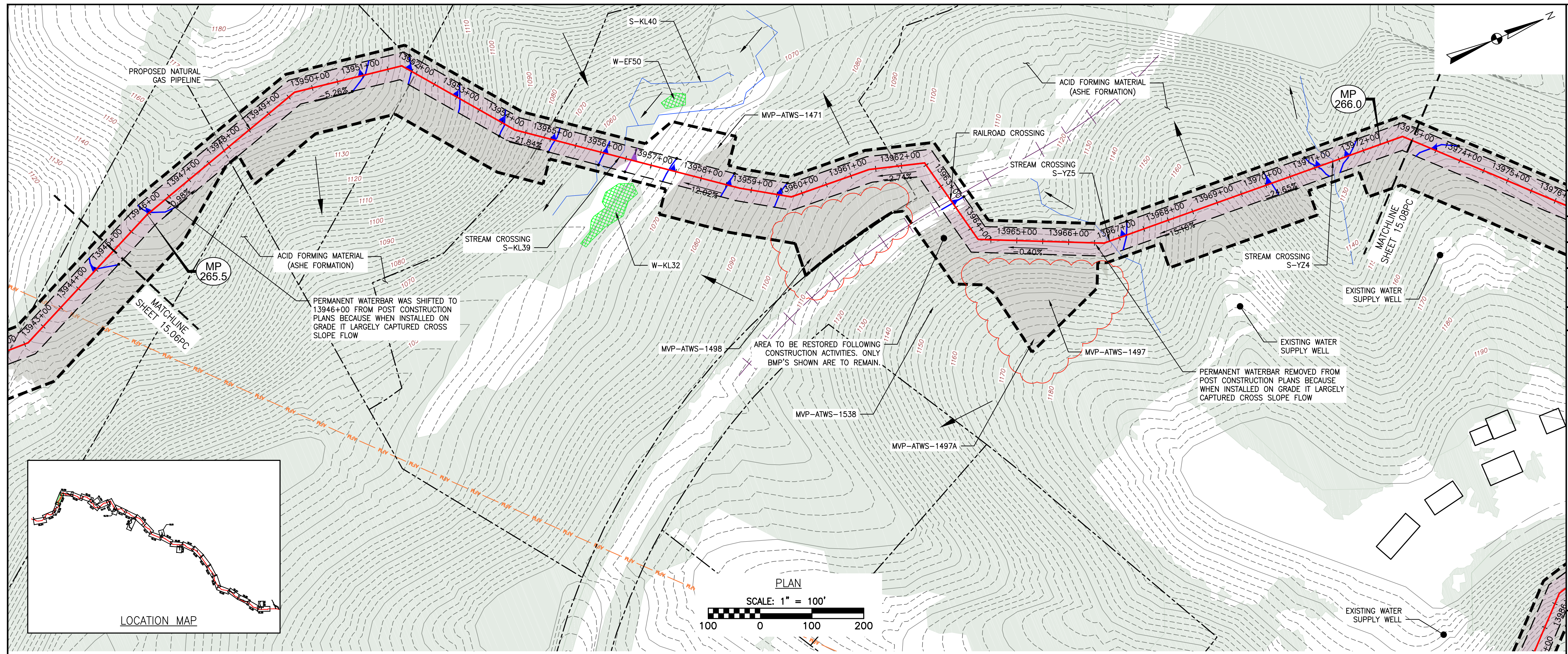
Mountain Valley PIPELINE
KEY PLAN
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION
 (STORMWATER &
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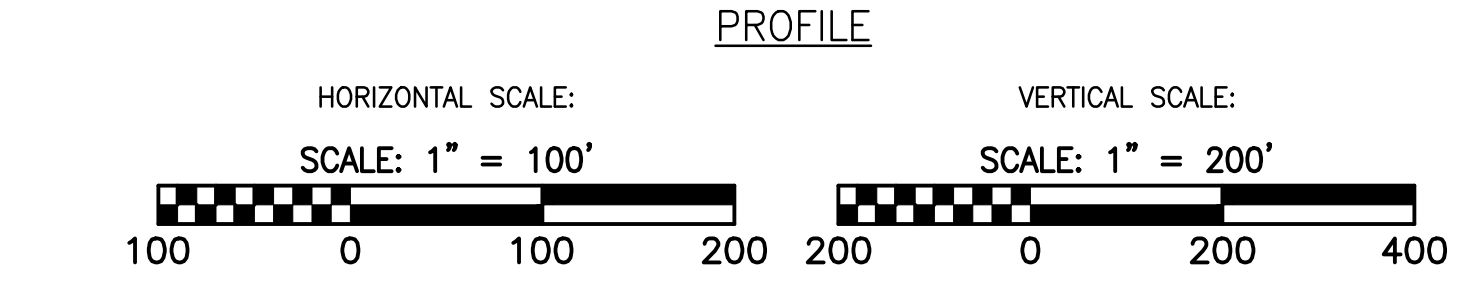
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.03PC OF 15.93PC



LEGEND

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



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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
7	08/09/18	JUZ	DW	FIELD MODIFICATION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS

REVISIONS:

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

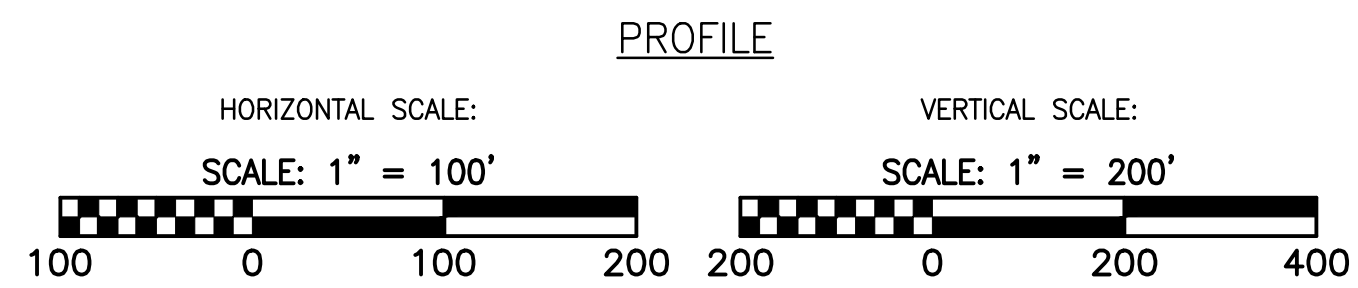
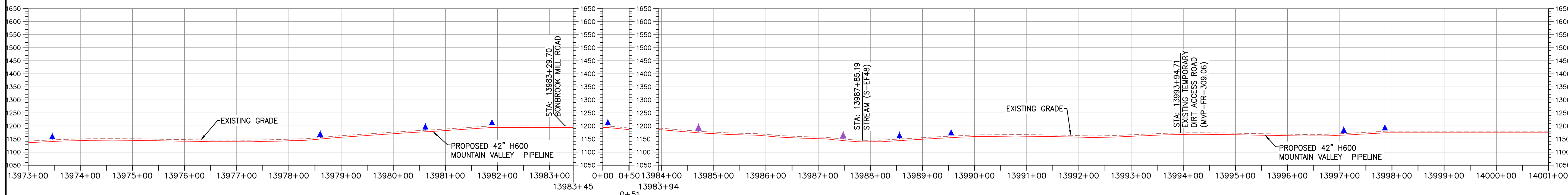
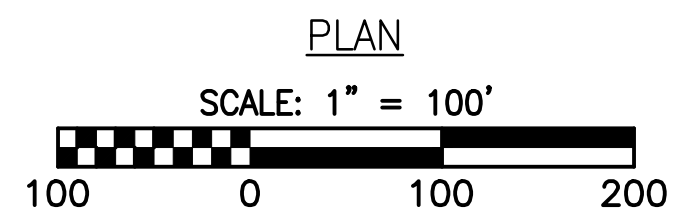
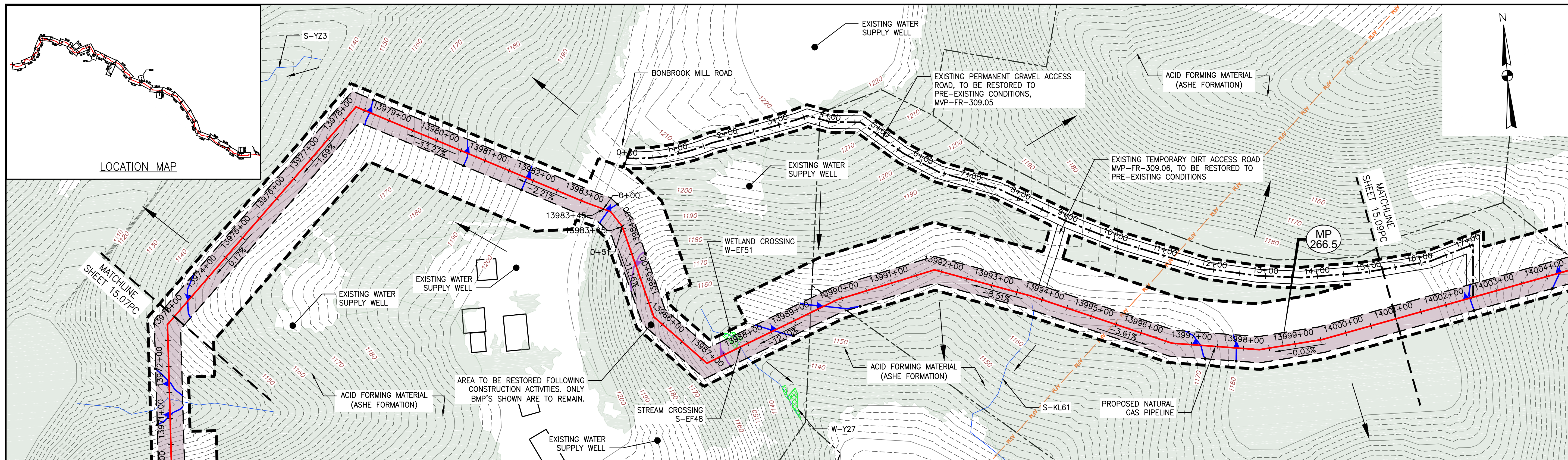
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY: JUZ
CHECKED BY: RE
APPROVED BY: DW
DATE: 08/09/2018
SCALE: AS SHOWN
SHT. NO. 15.07PC OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	REVISION
5	03/16/18	KAL	RE	ADDRESS VADED COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADED COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADED COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

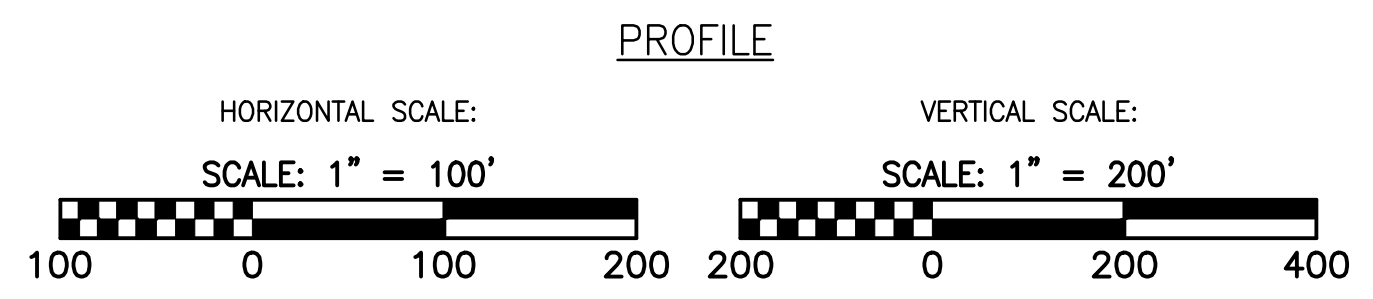
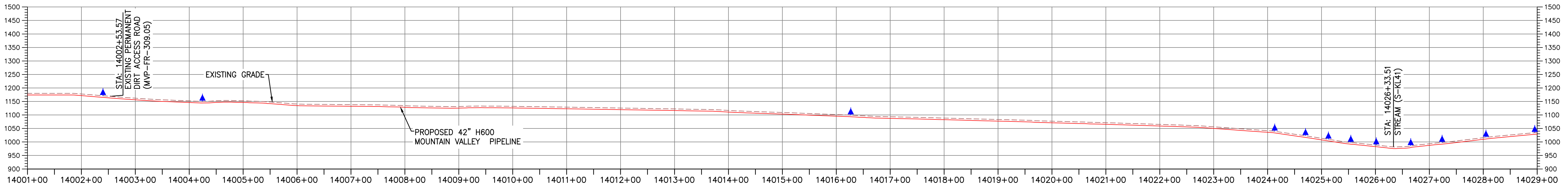
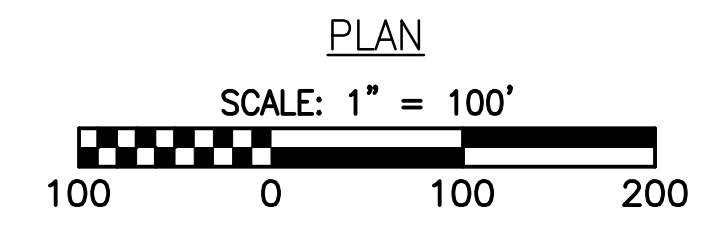
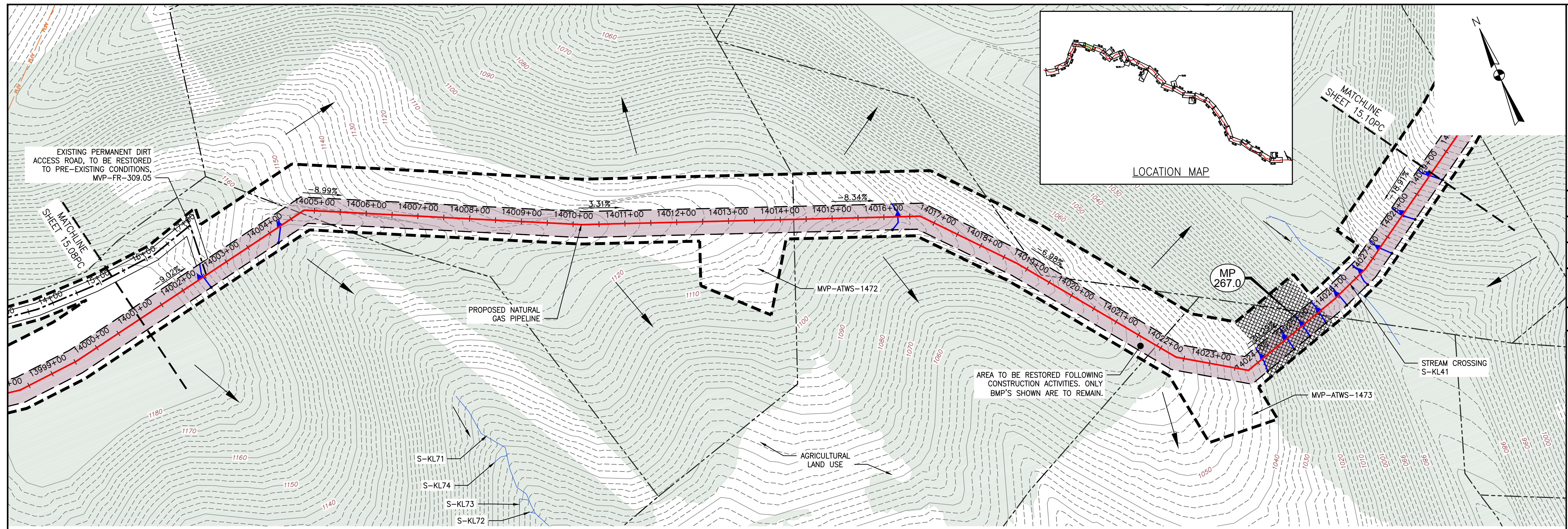
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.08PC OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VALED COMMENTS
5	03/16/18	KAL	RE	ADDRESS VALED COMMENTS
4	03/04/18	KAL	RE	ADDRESS VALED COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VALED COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

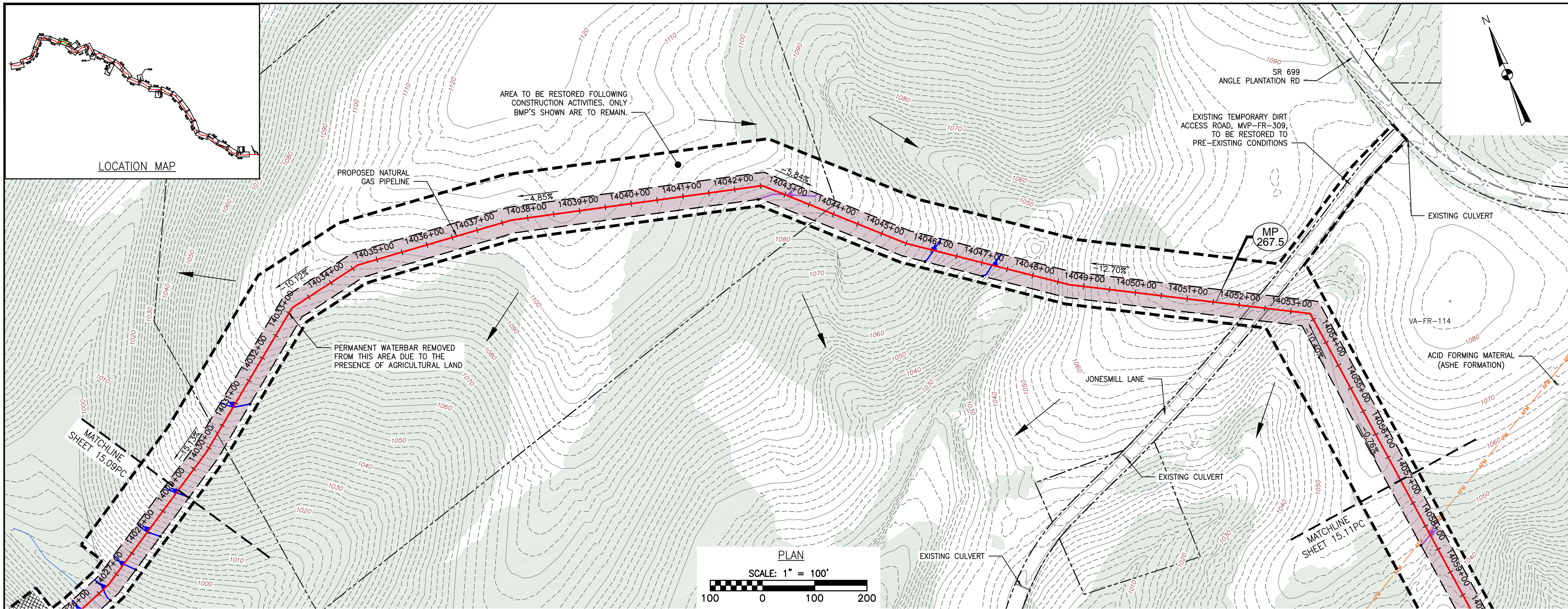
Mountain Valley PIPELINE
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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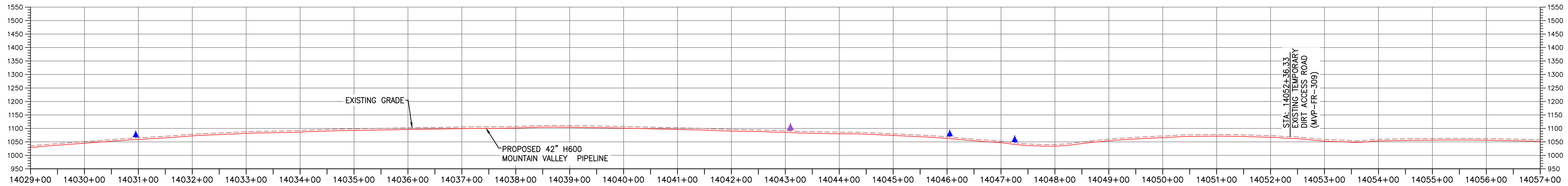
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.09PC	OF 15.93PC



PLAN
SCALE: 1" = 100'



PROFILE

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

LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADED COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADED COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

REVISIONS:

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

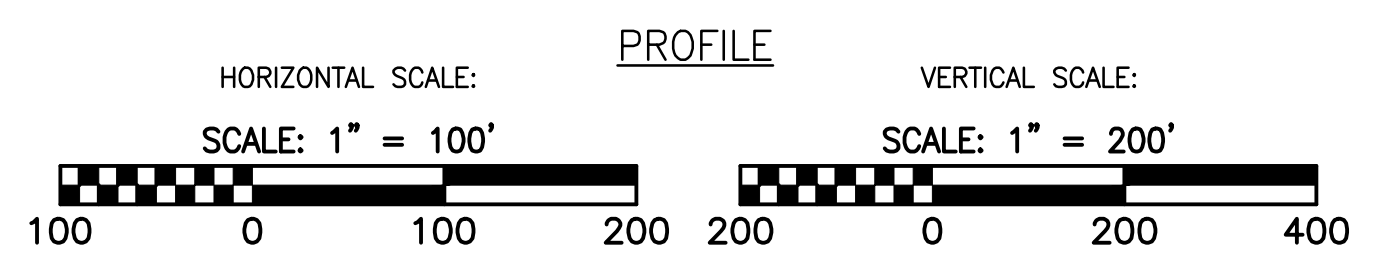
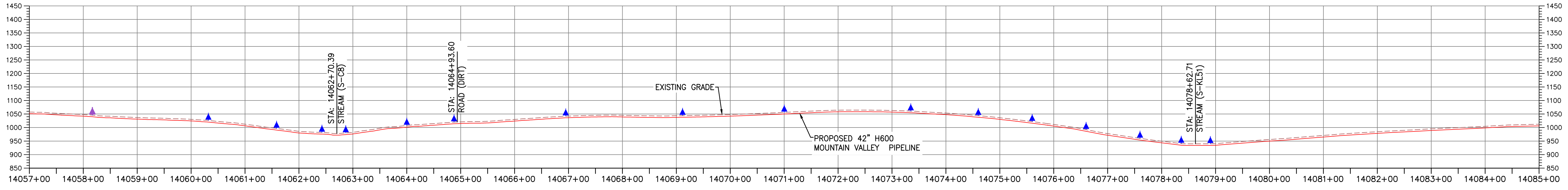
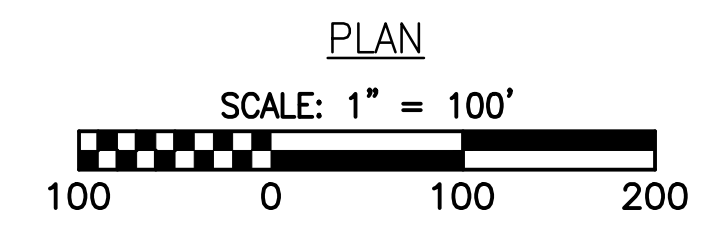
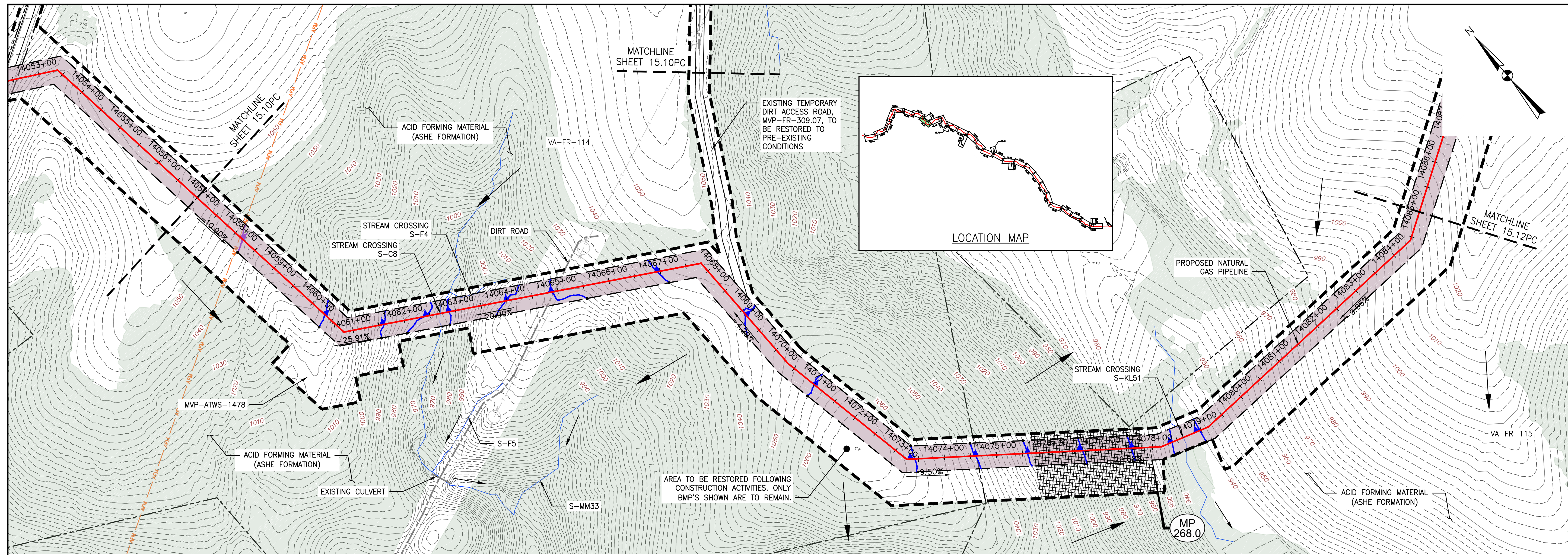
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.10PC OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

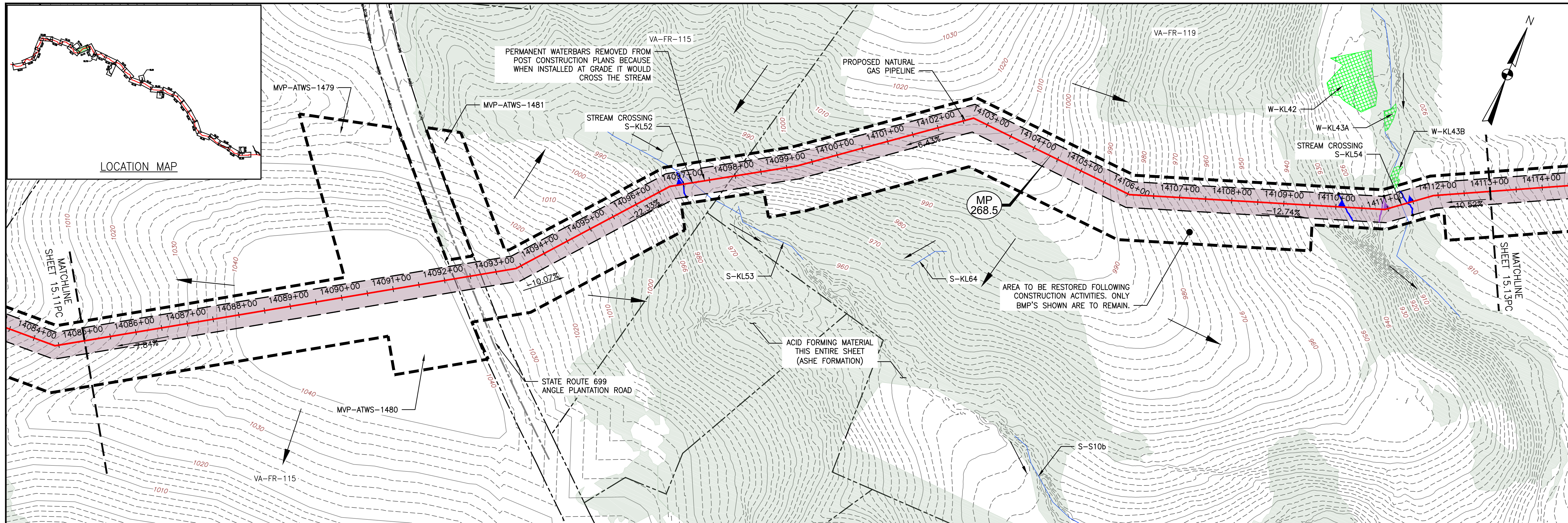
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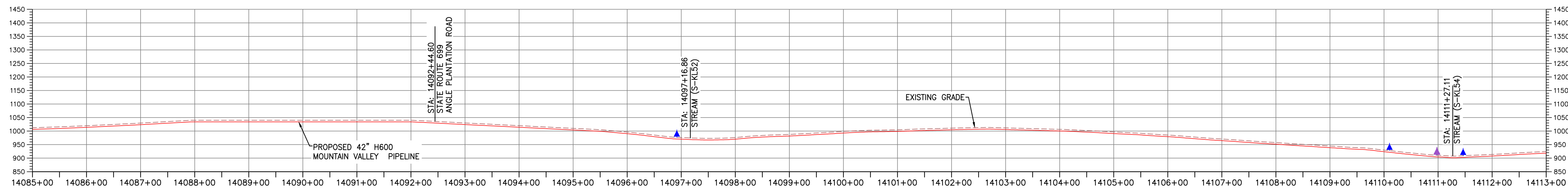
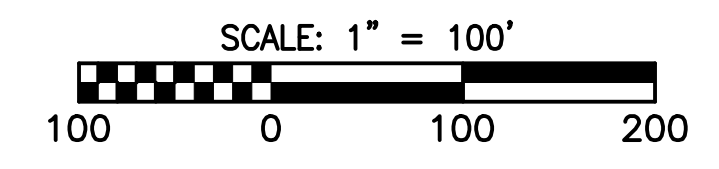
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

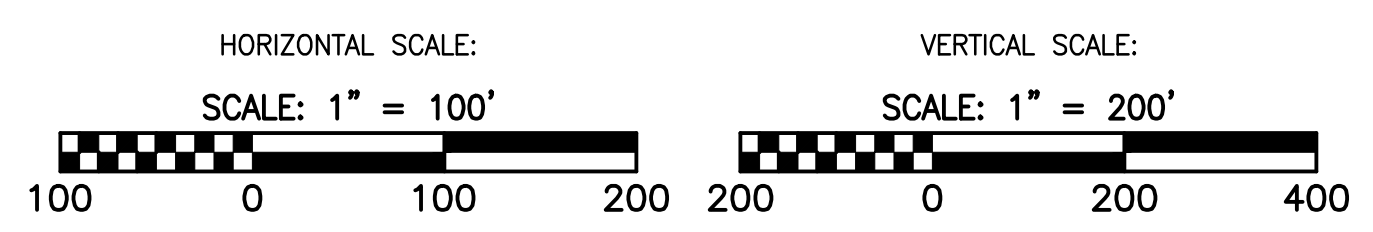
DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.11PC	OF 15.93PC



PLAN



PROFILE



LEGEND

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

NOTES:

1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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4	03/04/18	KAL	RE	REVISION
3	02/20/18	KAL	RE	REVISION
2	11/21/17	KAL	RE	REVISION
1	09/11/17	KAL	RE	REVISION

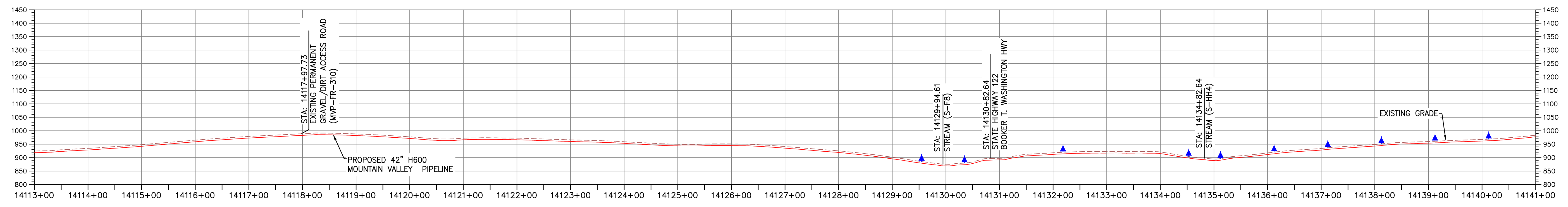
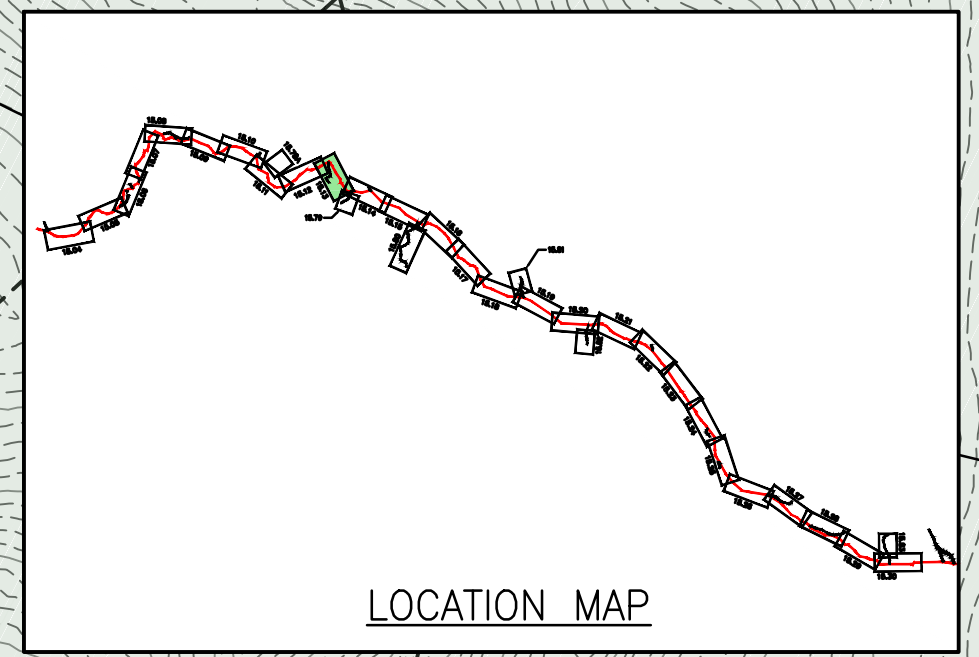
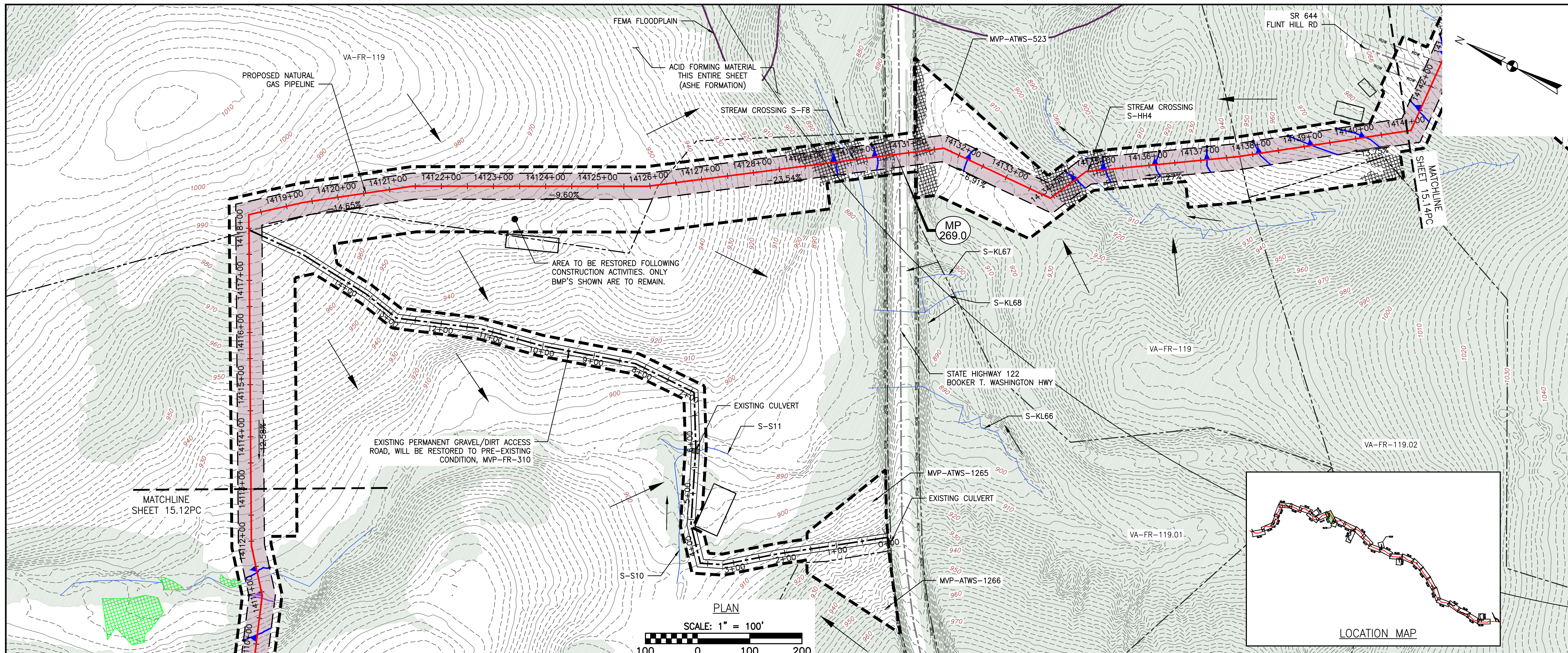
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.12PC OF 15.93PC	



LEGEND

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

NOTES:

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

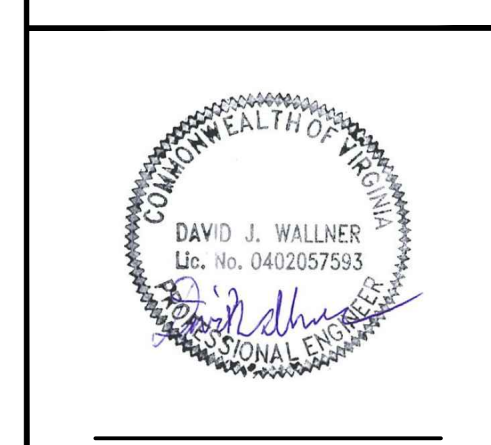
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

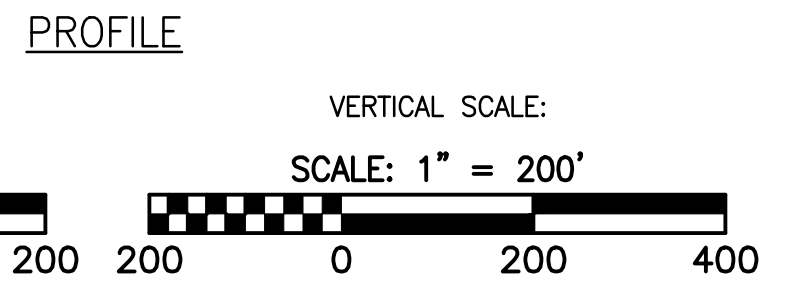
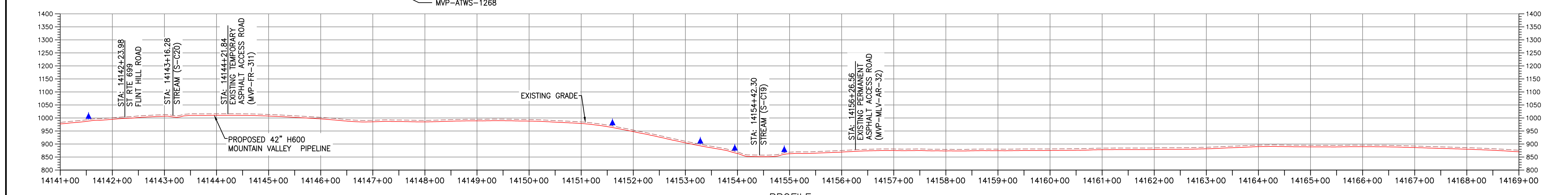
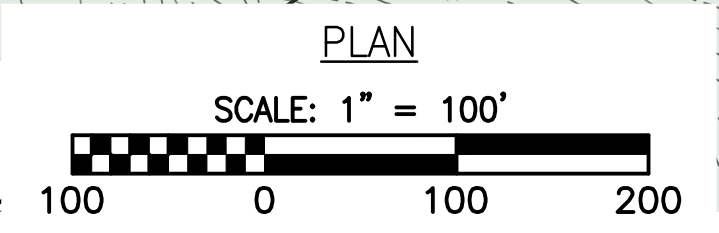
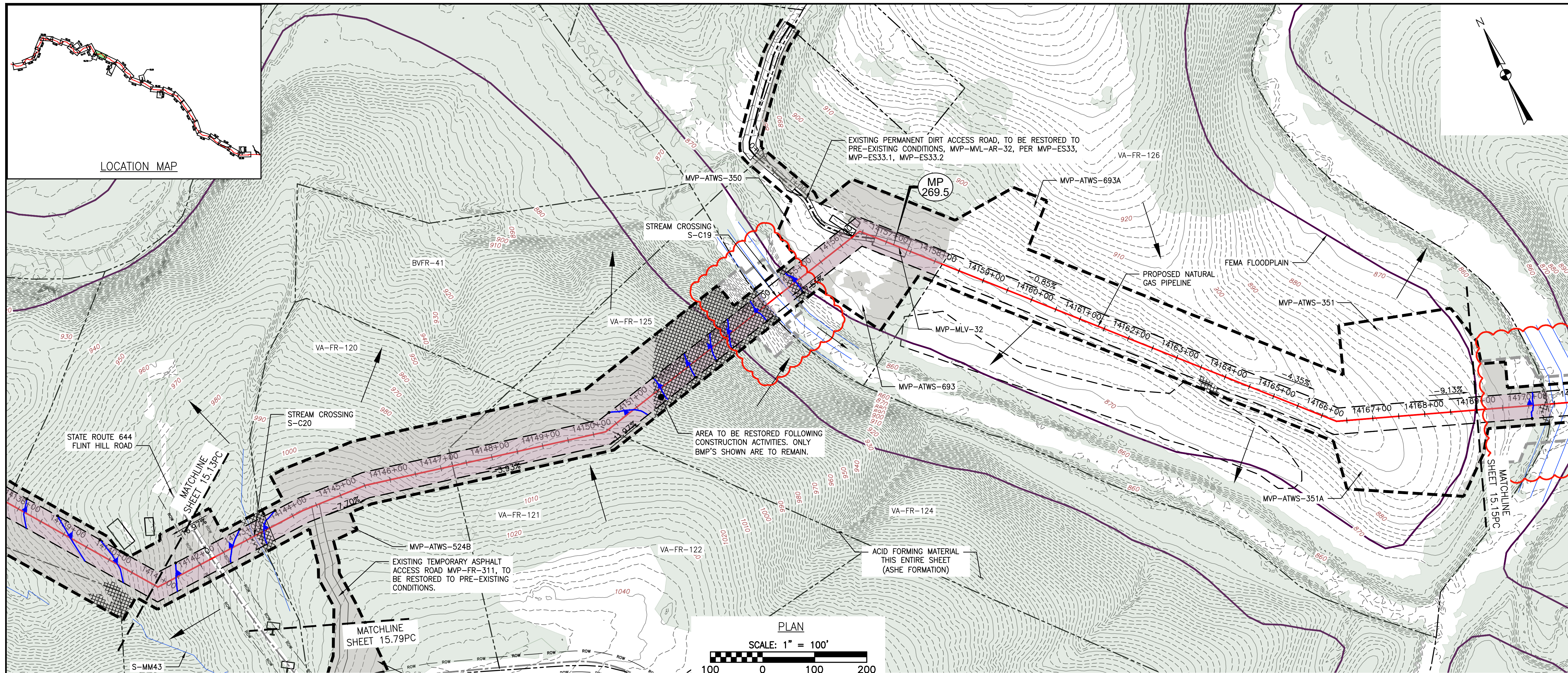
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661 ANDERSEN DRIVE
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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.13PC	OF 15.93PC



LEGEND

— EXISTING CULVERT	— AREA WITHIN PROJECT LIMITS NOT TO BE DISTURBED	— STREAM FLOW DIRECTION
— STREAM	— PROPOSED LEVEL SPREADER DIVERSION	— FEMA 100 YEAR FLOODPLAIN
— EXISTING PROPERTY LINE	— PROPOSED LEVEL SPREADER	— PERMANENT WATER BAR 10' END TREATMENT
— EXISTING STATE LINE	— PROPOSED ACCESS ROAD CENTERLINE	— PERMANENT WATER BAR 15' END TREATMENT
— EXISTING COUNTY LINE	— PROPOSED PIPELINE	— PERMANENT WATER BAR 20' END TREATMENT
— EXISTING ROAD/TRAIL	— SURFACE WATER FLOW DIRECTION	— STEEP SLOPE AREA
— USDA FOREST SERVICE (NATIONAL FOREST) LANDS	— POND	— EXISTING FOREST
— APPALACHIAN NATIONAL SCENIC TRAIL	— WETLAND	— PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
— ACID FORMING MATERIAL	— PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)	— TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION
— GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)	— APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)	
— PROPOSED LIMIT OF DISTURBANCE		
— PROPOSED PERMANENT RIGHT OF WAY		

NOTES:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
10/30/23	JJZ	IHH	DCW	ADDITION OF ATWS OUTSIDE LOD IN STREAM
11/30/22	JJZ	RE	TD	ADDRESS VAECD COMMENTS
01/31/22	JJZ	RE	TD	FIELD MODIFICATION - ADDITIONAL WORKSPACES FOR OPEN CUT CROSSINGS
04/30/18	KAL	RE	DW	FIELD MODIFICATION
03/21/18	KAL	RE	DW	ADDRESS VAECD COMMENTS
03/16/18	KAL	RE	DW	ADDRESS VAECD COMMENTS

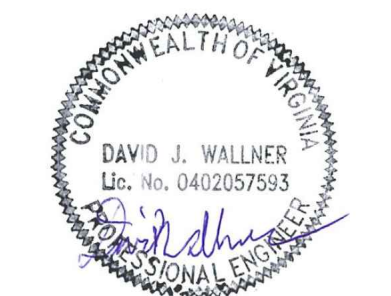
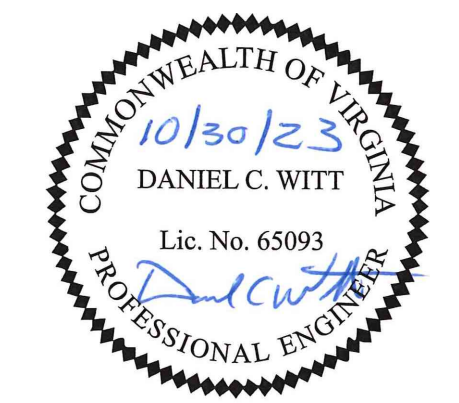
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

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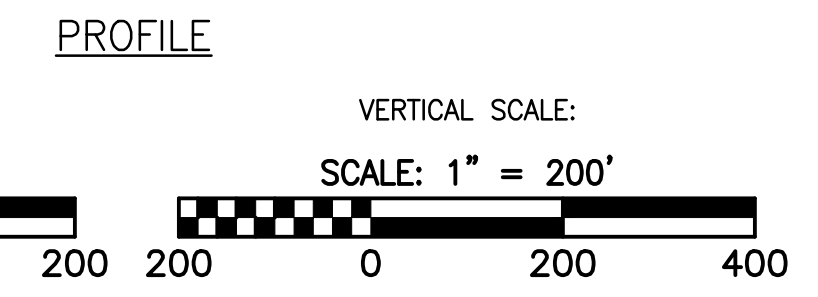
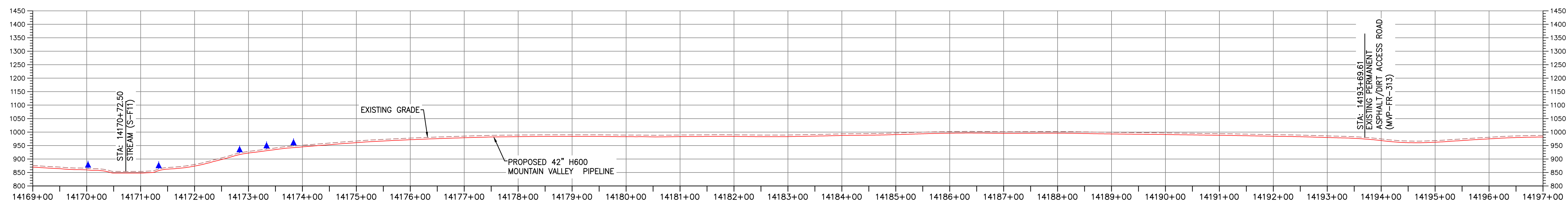
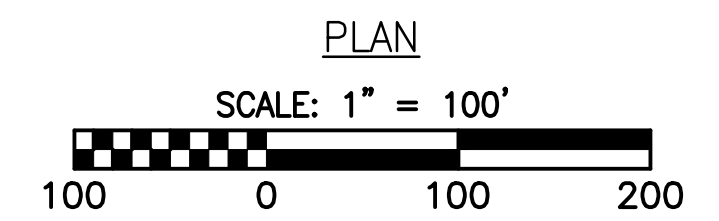
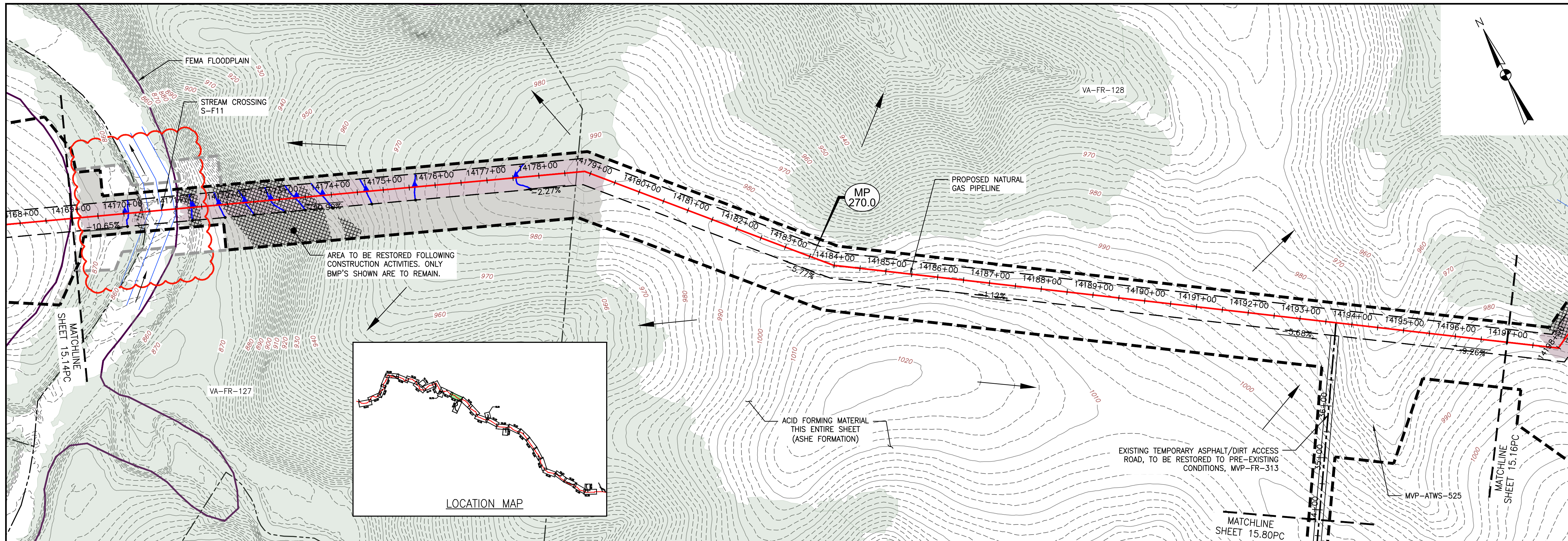
661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



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

DRAWN BY:	JJZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	10/30/2023
SCALE:	AS SHOWN
SHT. NO. 15.14PC	OF 15.93PC



LEGEND

— EXISTING CULVERT	— AREA WITHIN PROJECT LIMITS NOT TO BE DISTURBED	— STREAM FLOW DIRECTION
— STREAM	— PROPOSED LEVEL SPREADER DIVERSION	— FEMA 100 YEAR FLOODPLAIN
— EXISTING PROPERTY LINE	— PROPOSED LEVEL SPREADER	▲ PERMANENT WATER BAR 10' END TREATMENT
— EXISTING STATE LINE	— PROPOSED ACCESS ROAD CENTERLINE	▲ PERMANENT WATER BAR 15' END TREATMENT
— EXISTING COUNTY LINE	— PROPOSED PIPELINE	▲ PERMANENT WATER BAR 20' END TREATMENT
— EXISTING ROAD/TRAIL	— SURFACE WATER FLOW DIRECTION	● APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)
— USDA FOREST SERVICE (NATIONAL FOREST) LANDS	— POND	▨ STEEP SLOPE AREA
— ANST — APPALACHIAN NATIONAL SCENIC TRAIL	— WETLAND	▨ EXISTING FOREST
— AFM — ACID FORMING MATERIAL	— PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)	▨ PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
— GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)	— PROPOSED LIMIT OF DISTURBANCE	▨ TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION
— PROPOSED PERMANENT RIGHT OF WAY		

NOTES:

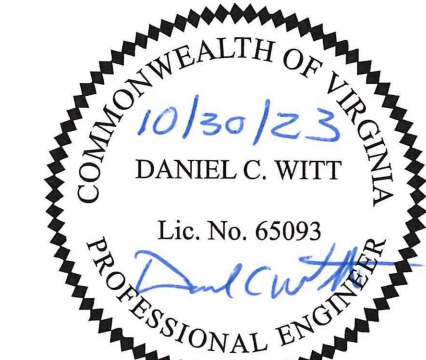
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03/21/18	KAL	RE	DW	ADDRESS VAECD COMMENTS
03/16/18	KAL	RE	DW	ADDRESS VAECD COMMENTS
03/04/18	KAL	RE	DW	ADDRESS VAECD COMMENTS

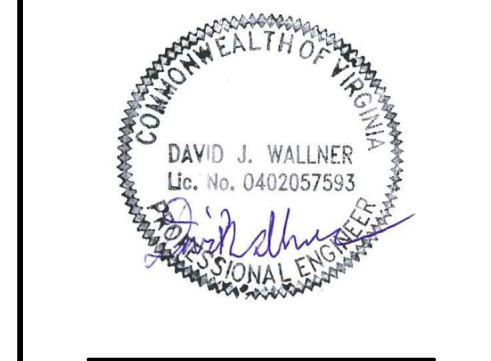
Mountain Valley Pipeline
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 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15317

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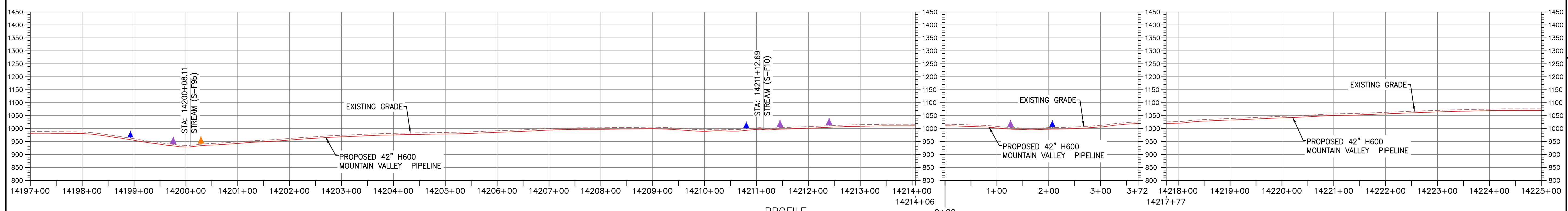
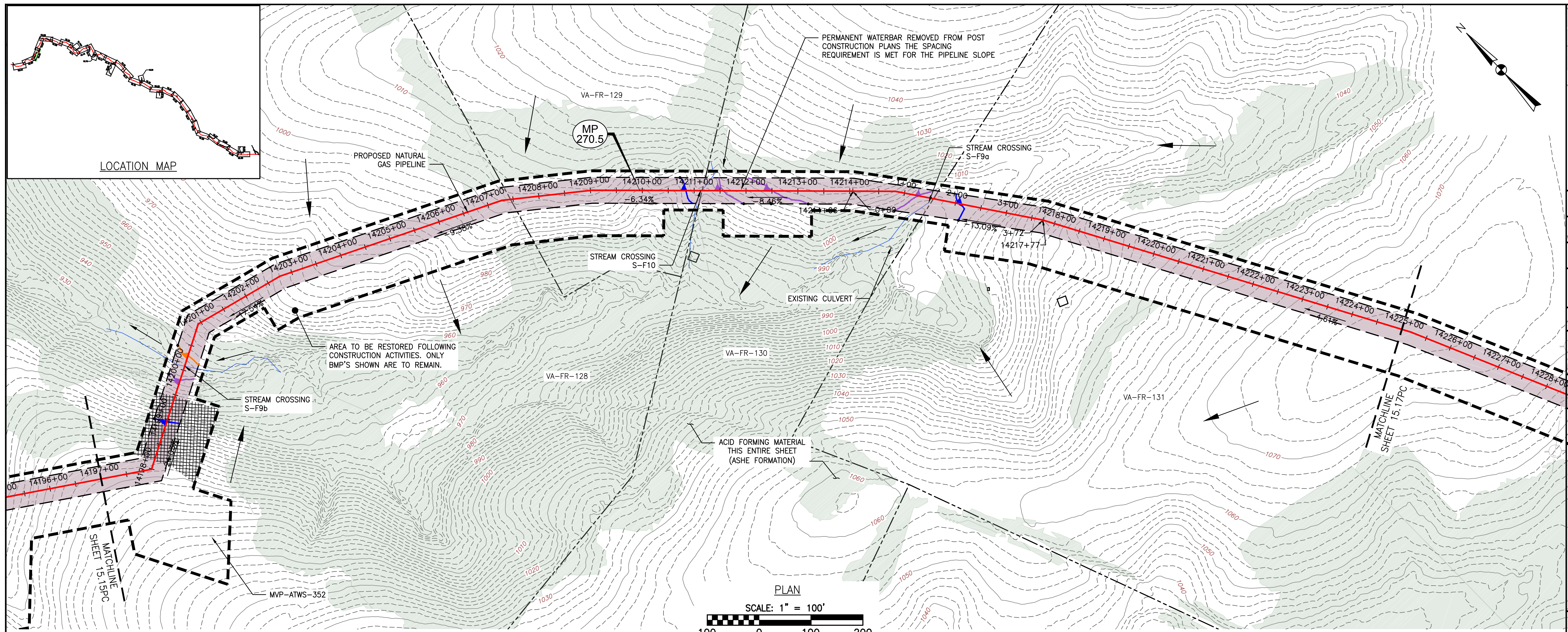
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



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



DRAWN BY:	JZ
CHECKED BY:	IHH
APPROVED BY:	DCW
DATE:	10/30/2023
SCALE:	AS SHOWN
SHT. NO. 15.15PC	OF 15.93PC



LEGEND

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

NOTES:

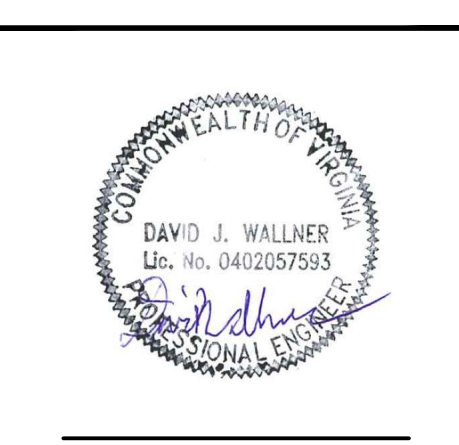
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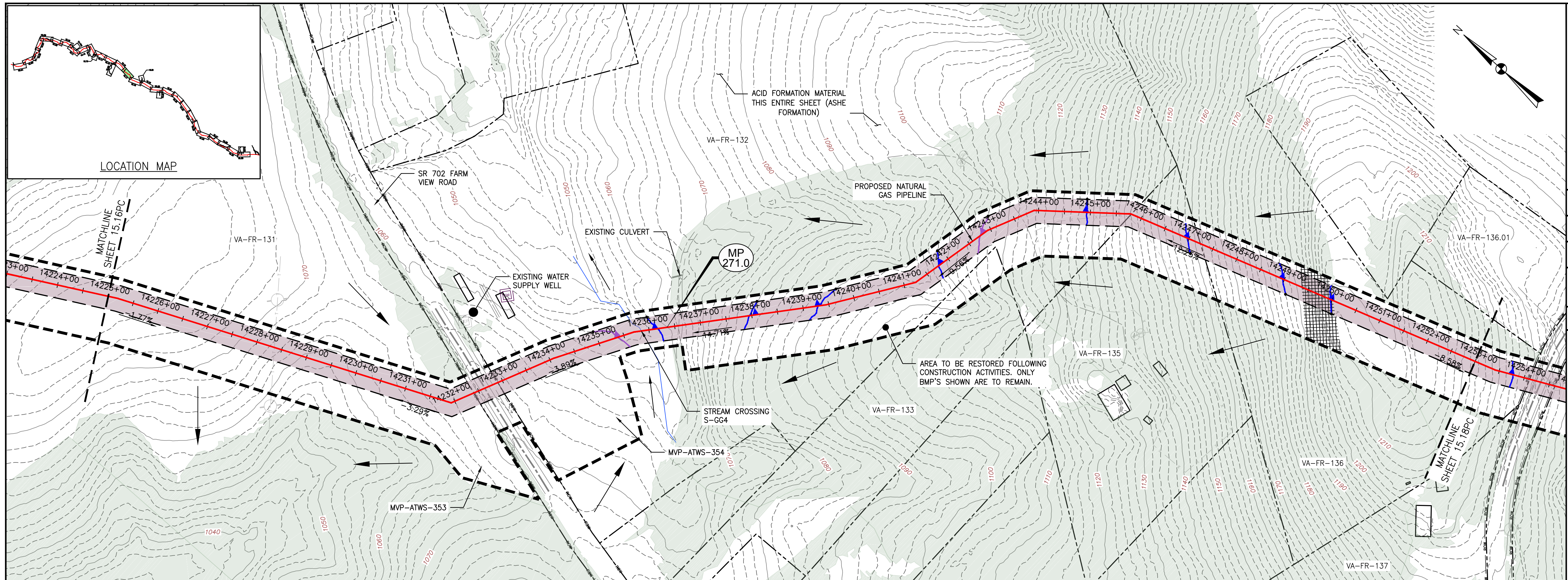
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 PITTSBURGH, PA 15220

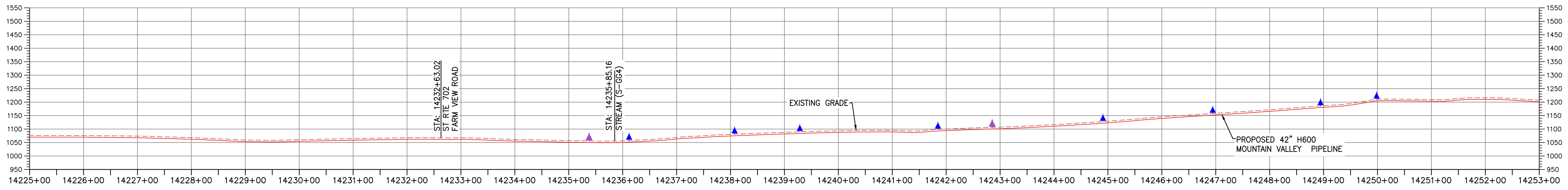
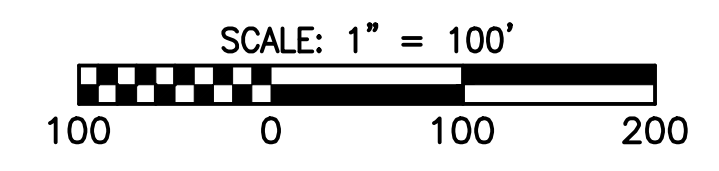
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



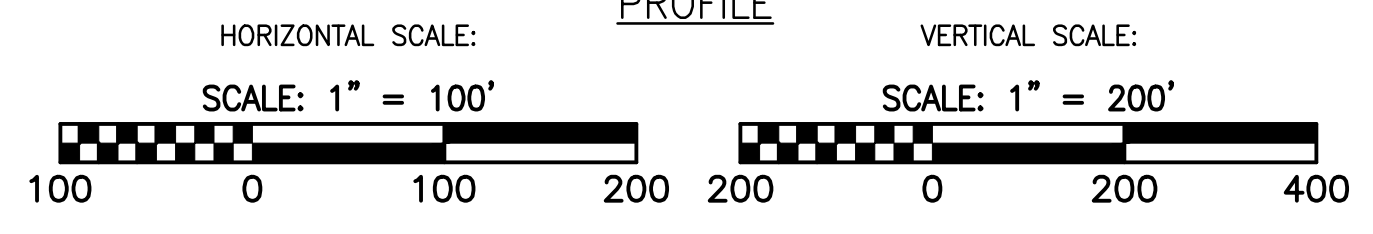
DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.16PC OF 15.93PC



PLAN



PROFILE



LEGEND

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

NOTES:

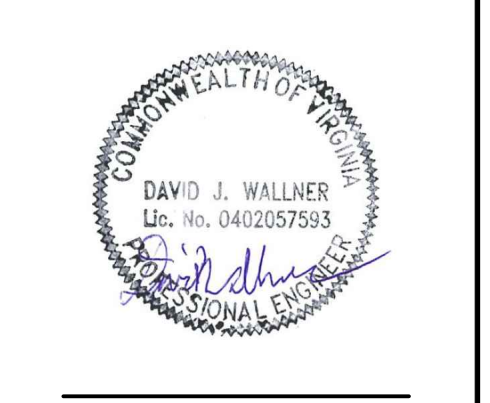
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

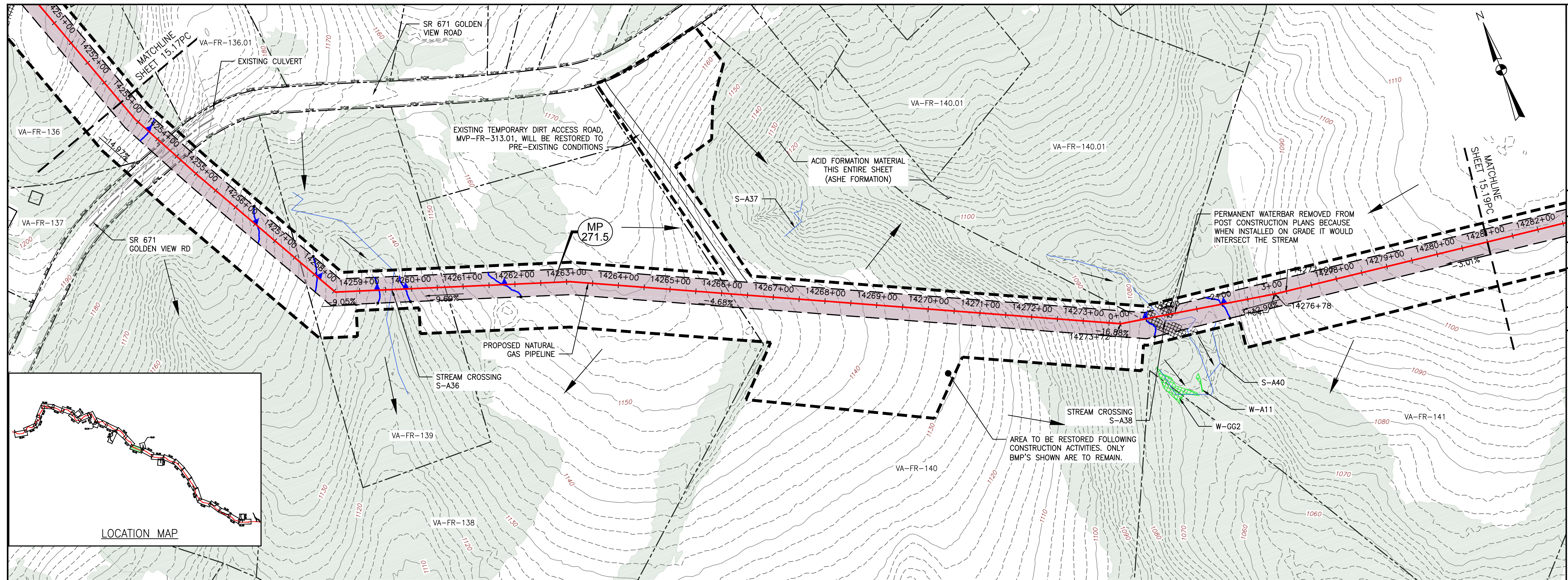
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS

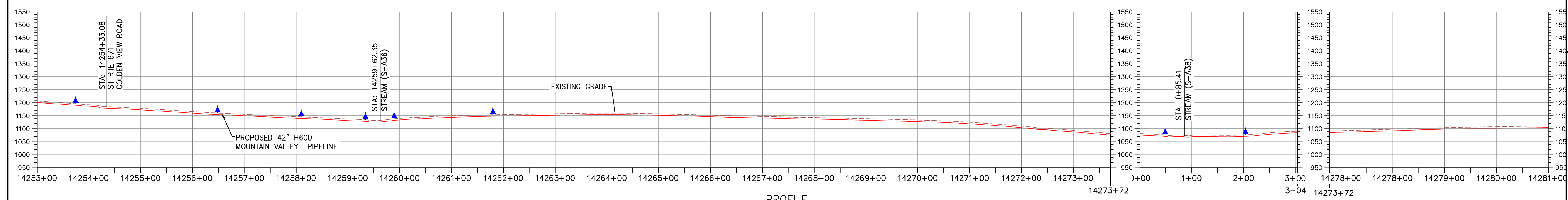


DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.17PC OF 15.93PC	REVISION



PLAN

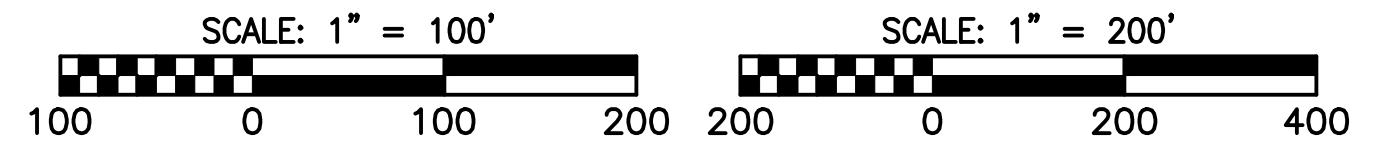
SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	REVISION
5	03/16/18	KAL	RE	REVISION
4	03/04/18	KAL	RE	REVISION
3	02/20/18	KAL	RE	REVISION
2	11/21/17	KAL	RE	REVISION
1	09/11/17	KAL	RE	REVISION

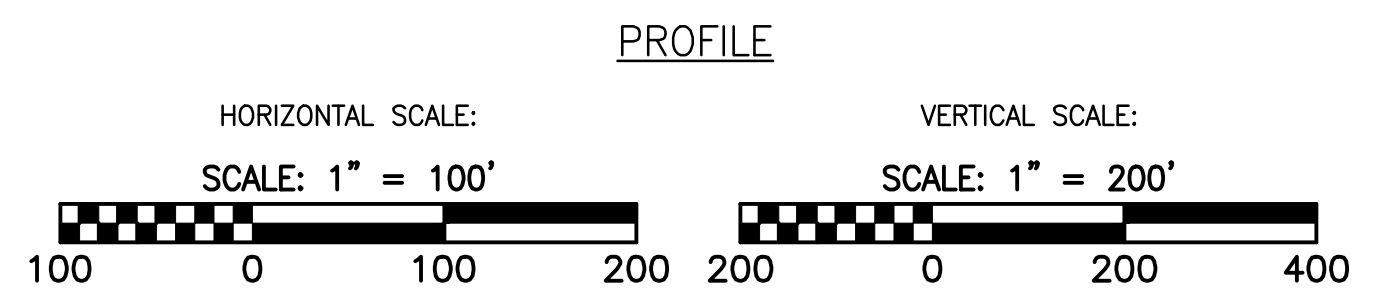
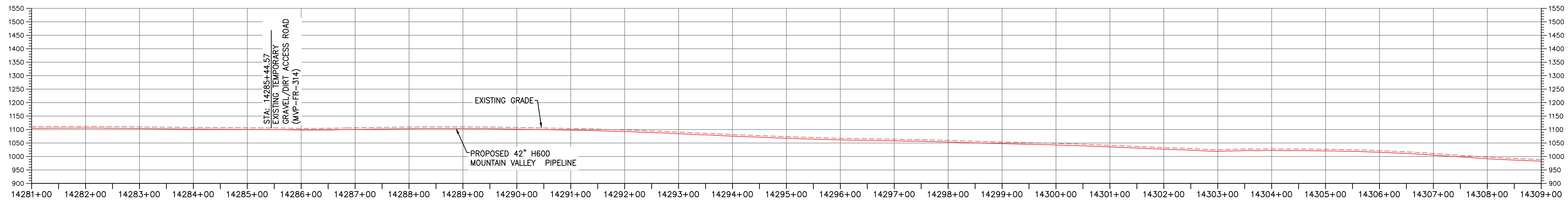
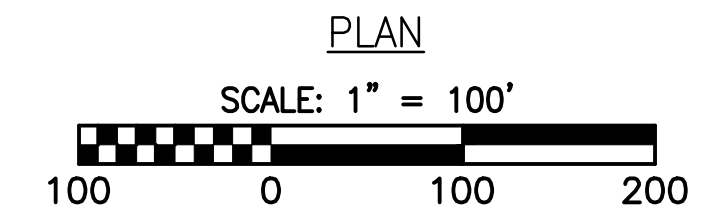
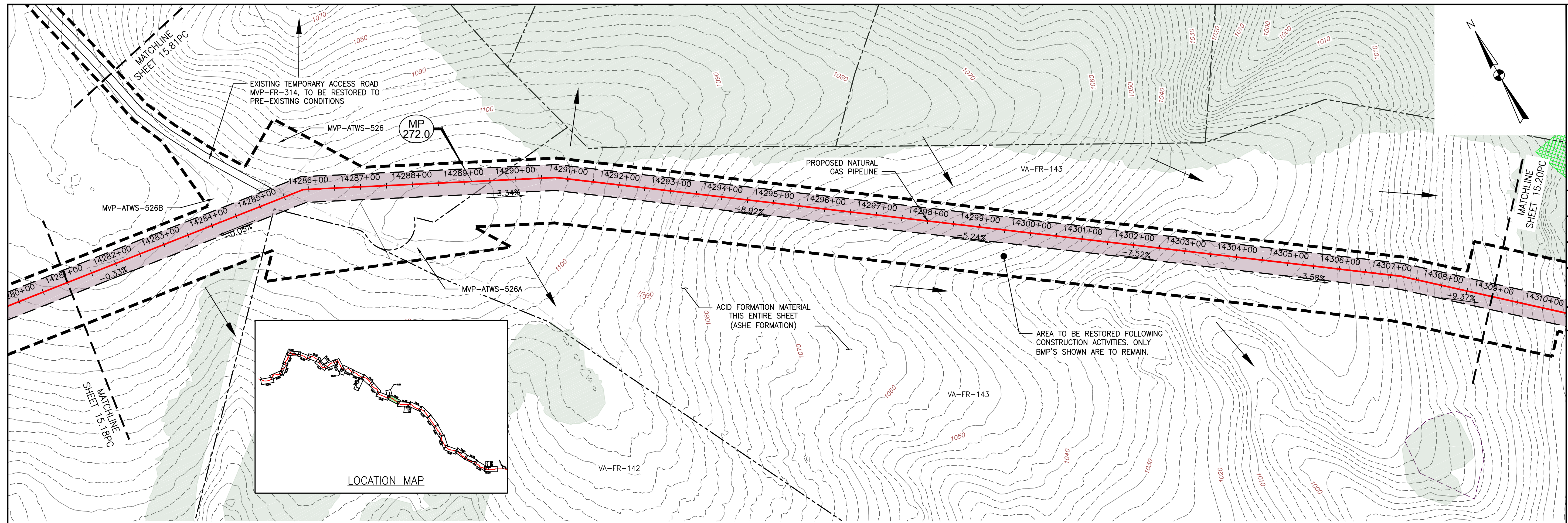
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.18PC	OF 15.93PC



LEGEND

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

NOTES:

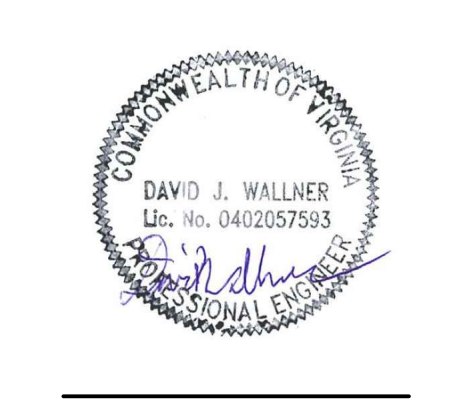
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

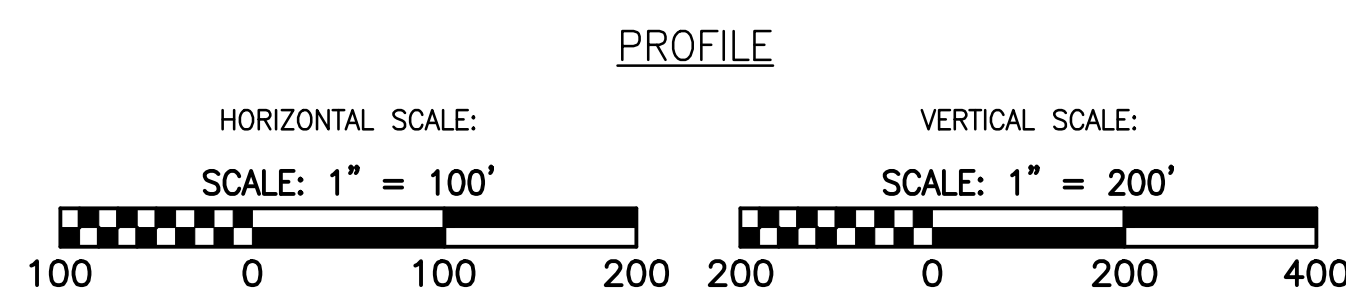
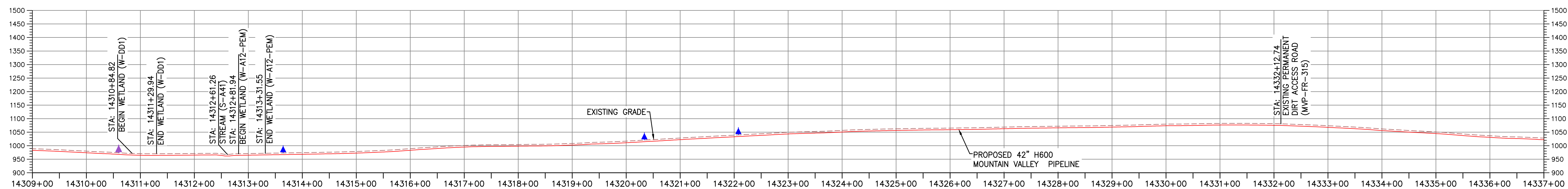
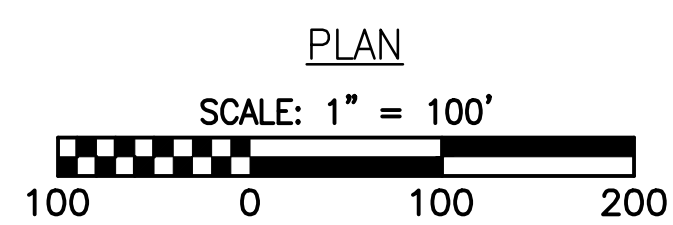
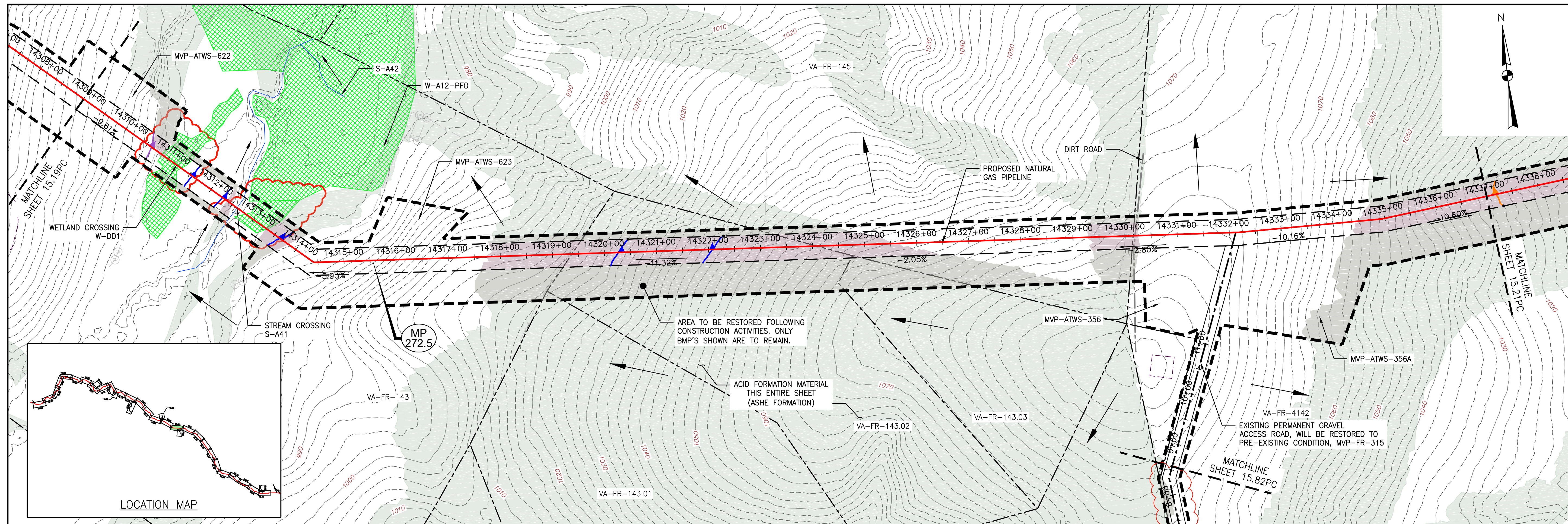
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.19PC	OF 15.93PC



LEGEND

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

NOTES:

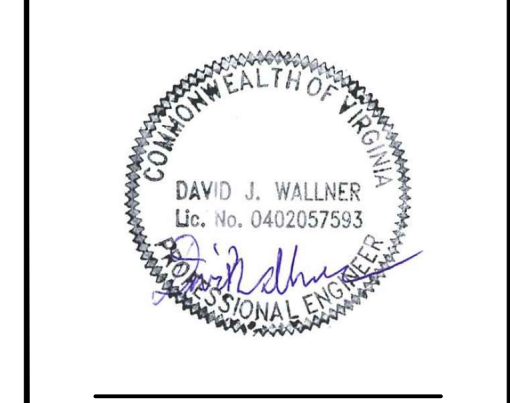
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
7	06/24/20	JK	RE	CHANGES TO AQUATIC RESOURCES DELINEATIONS
6	04/30/18	KAL	RE	FIELD MODIFICATION
5	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
4	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY

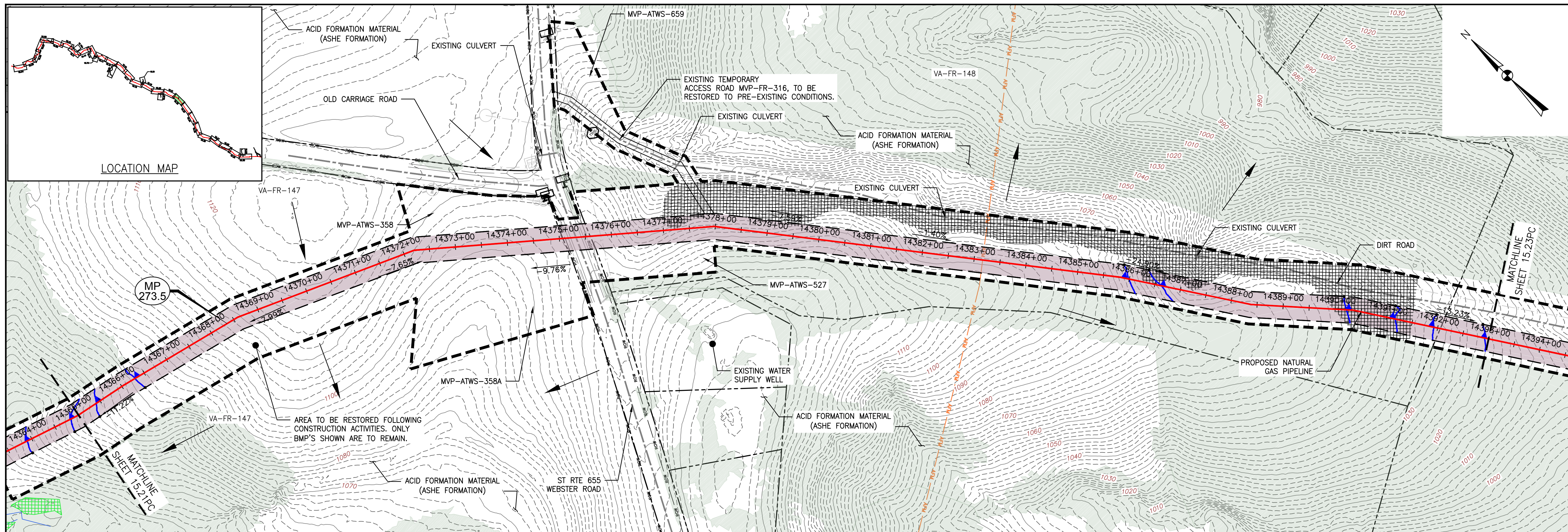
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
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 PITTSBURGH, PA 15220

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS

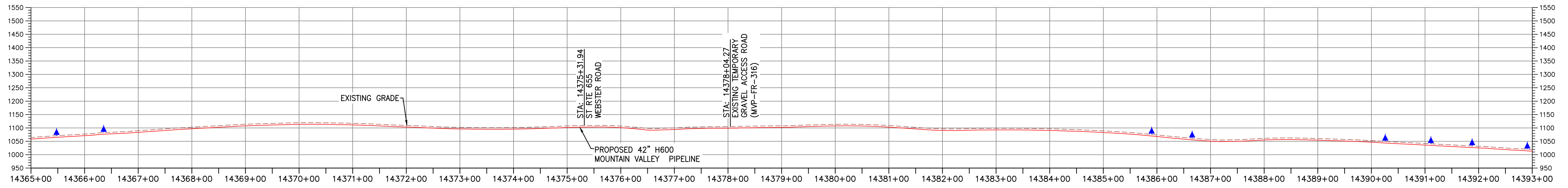


DRAWN BY:	JK
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	06/24/2020
SCALE:	AS SHOWN
SHT. NO.	15.20PC OF 15.93PC



PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

NOTES:

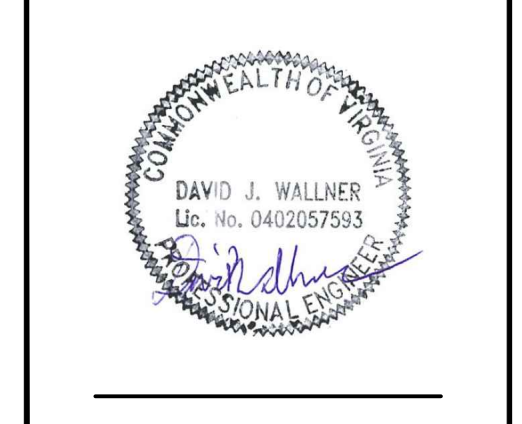
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	REVISION
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

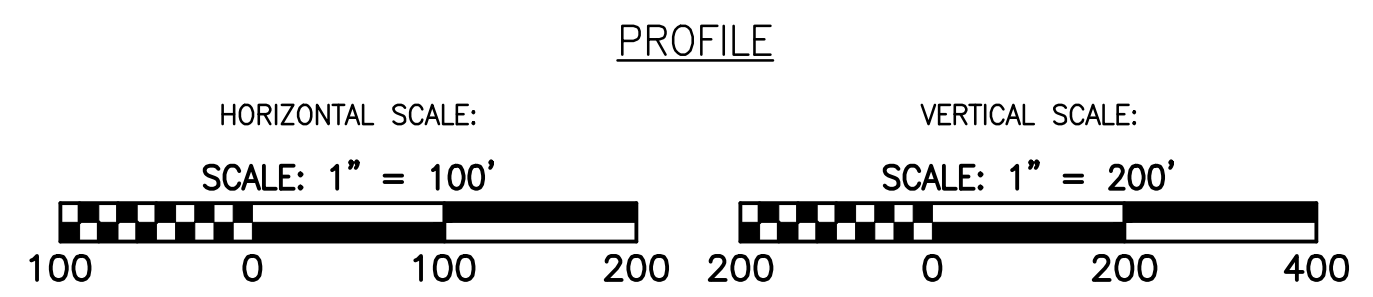
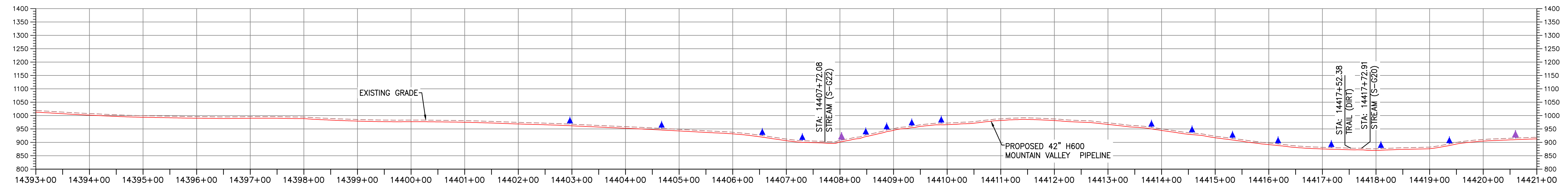
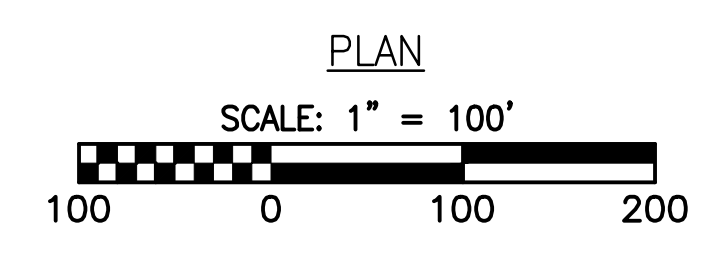
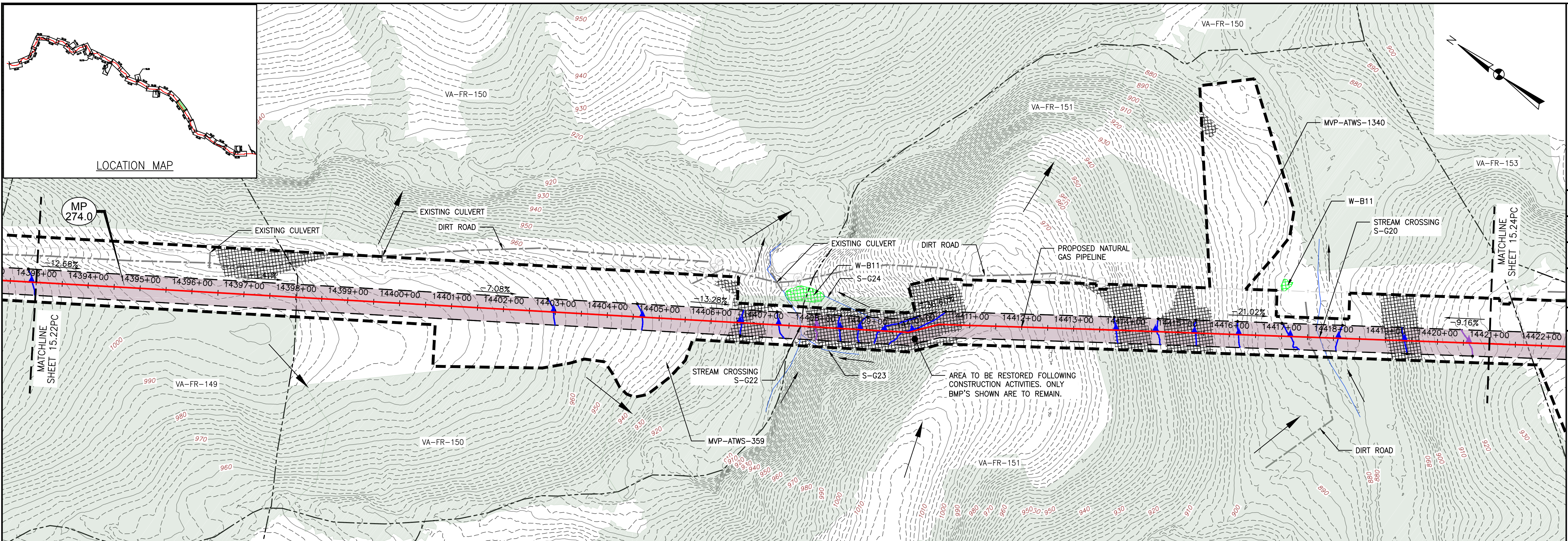
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.22PC	OF 15.93PC



LEGEND

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

NOTES:

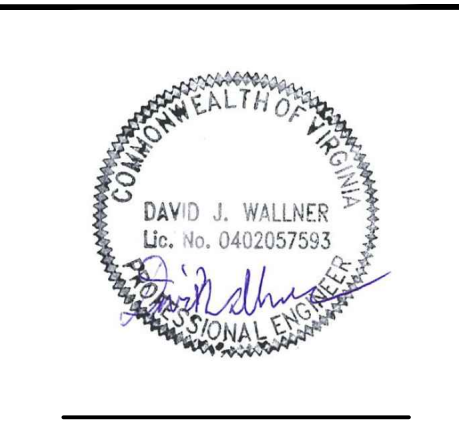
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADQ COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

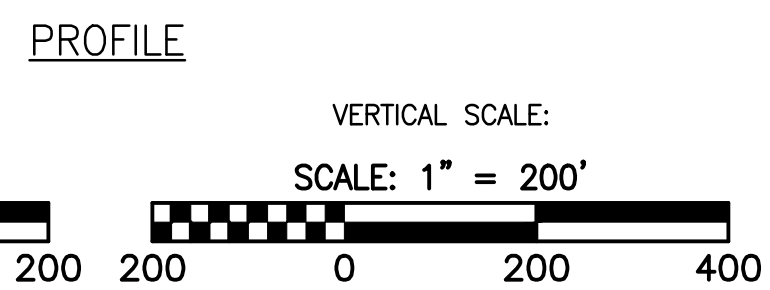
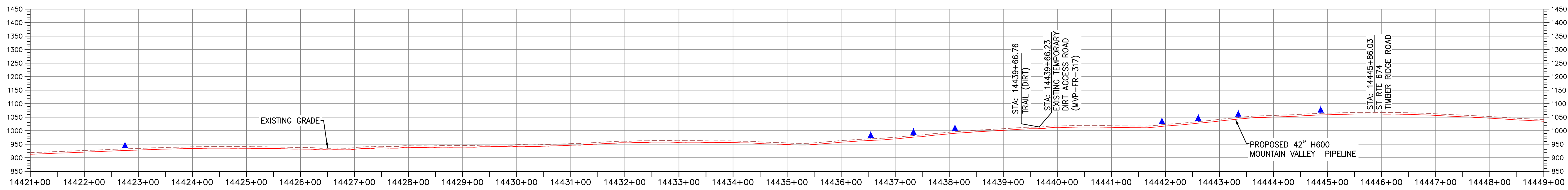
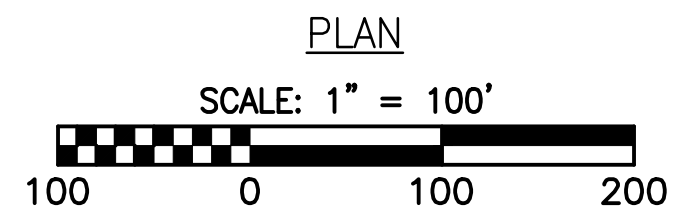
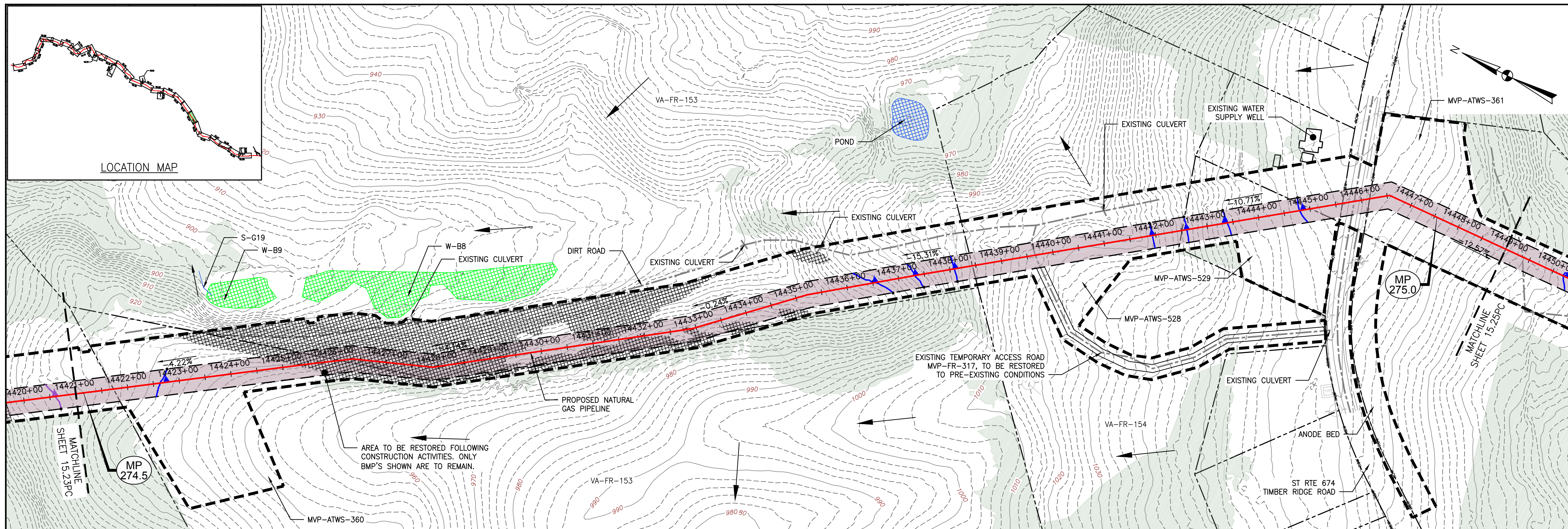
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.23PC OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		ADDRESS VABEQ COMMENTS
5	03/16/18	KAL		ADDRESS VABEQ COMMENTS
4	03/04/18	KAL		ADDRESS VABEQ COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL		ADDRESS VABEQ COMMENTS
1	09/11/17	KAL		PLAN SUBMISSION

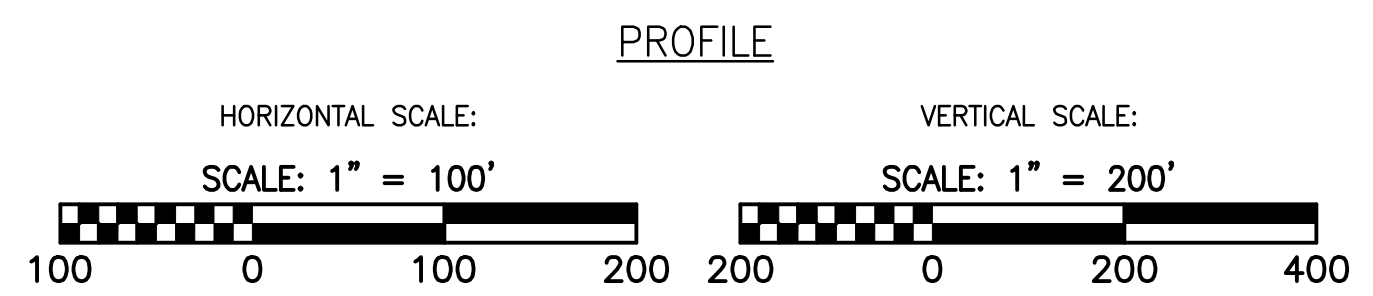
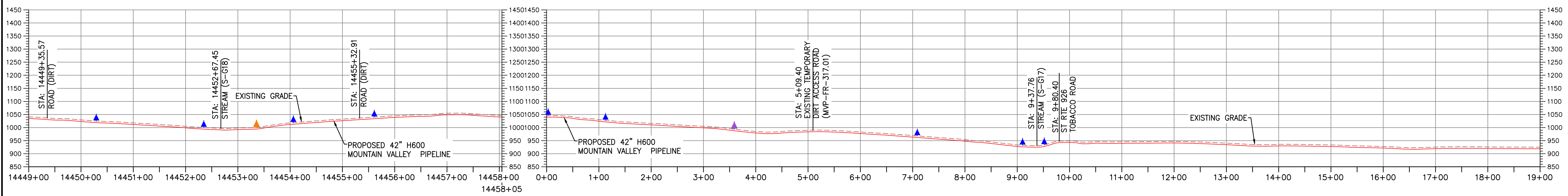
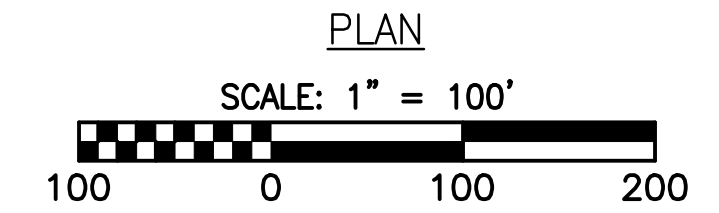
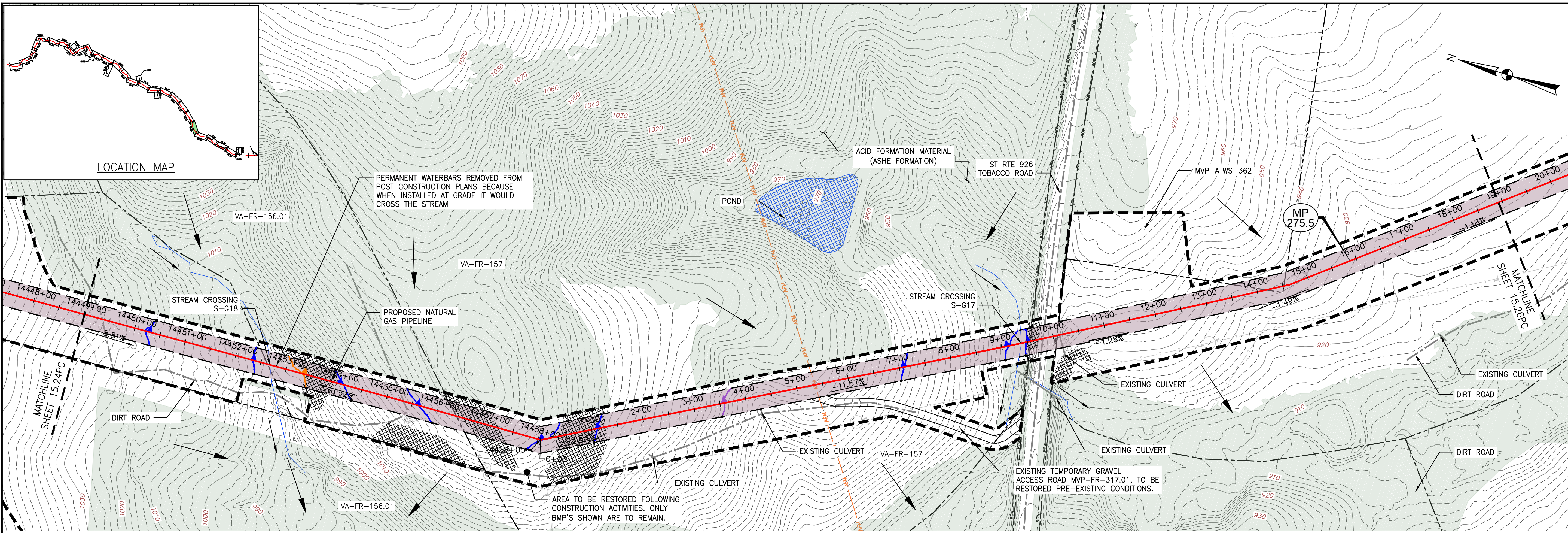
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.24PC OF 15.93PC



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

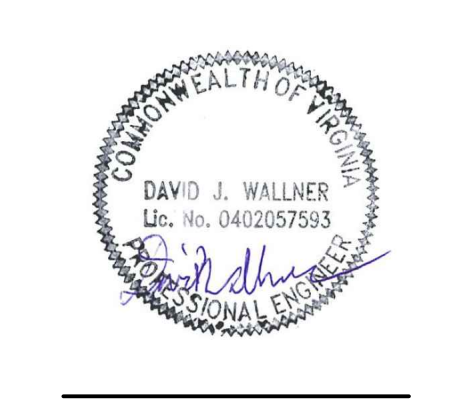
- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
 - IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

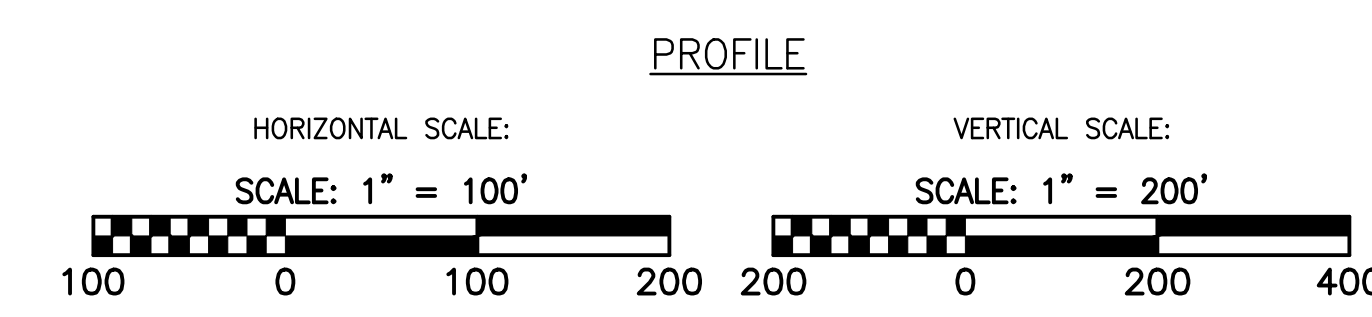
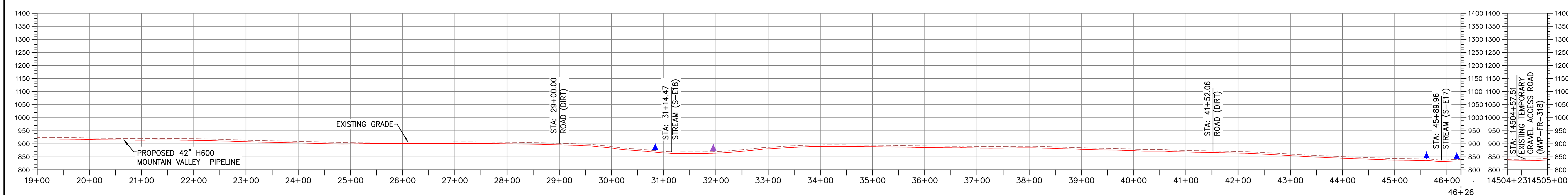
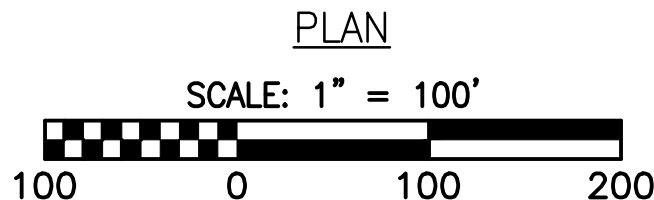
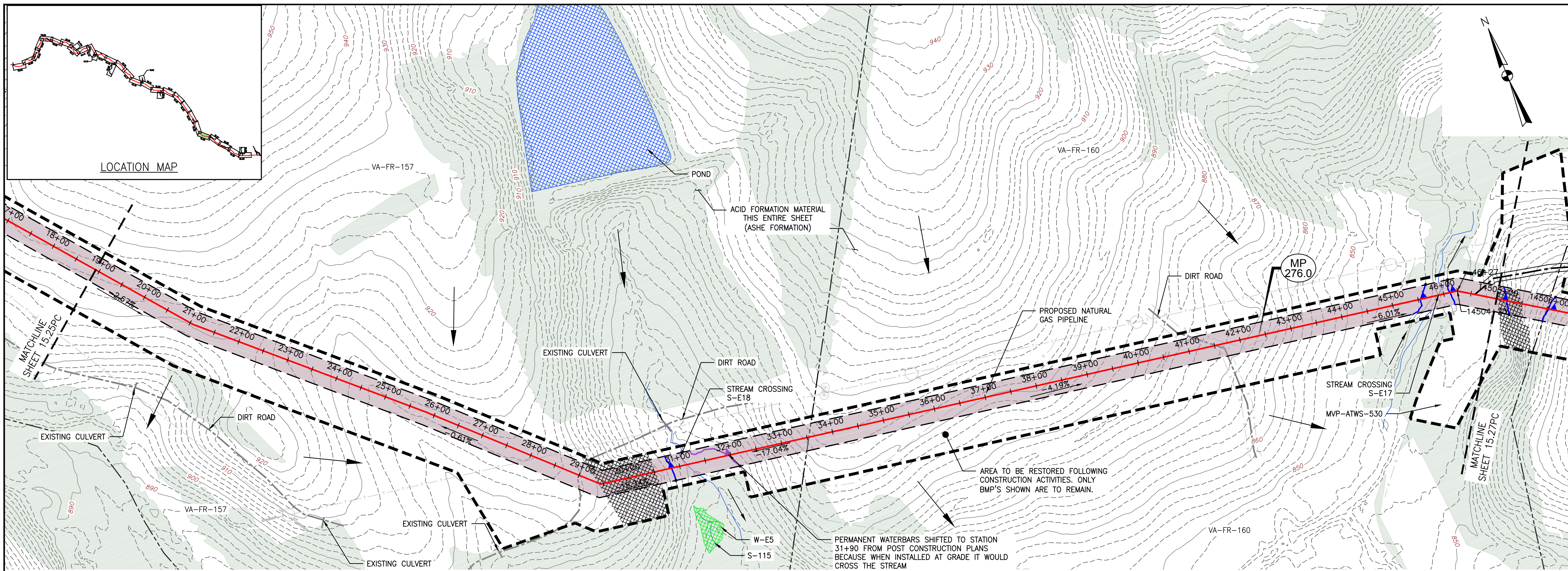
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.25PC	OF 15.93PC



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

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

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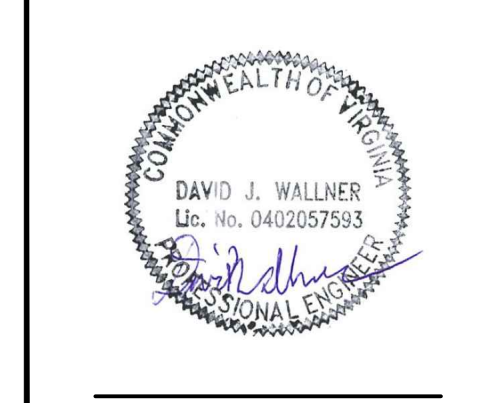
NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

REVISIONS:

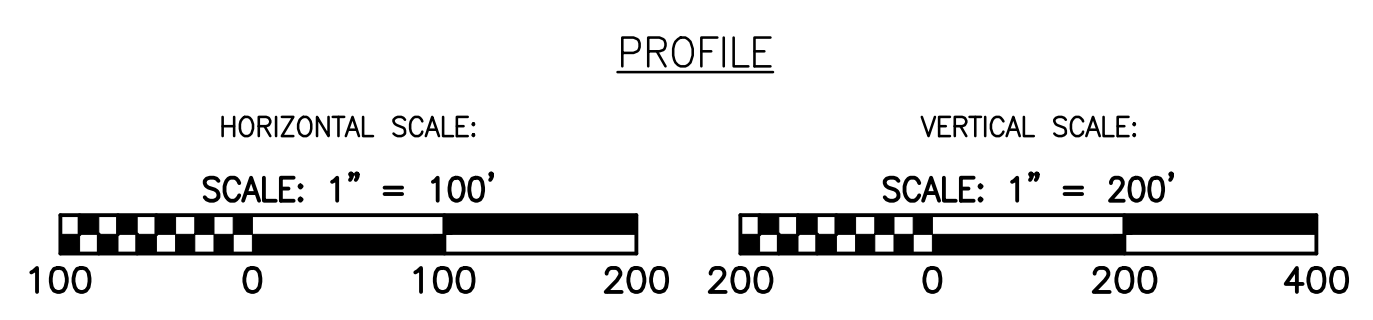
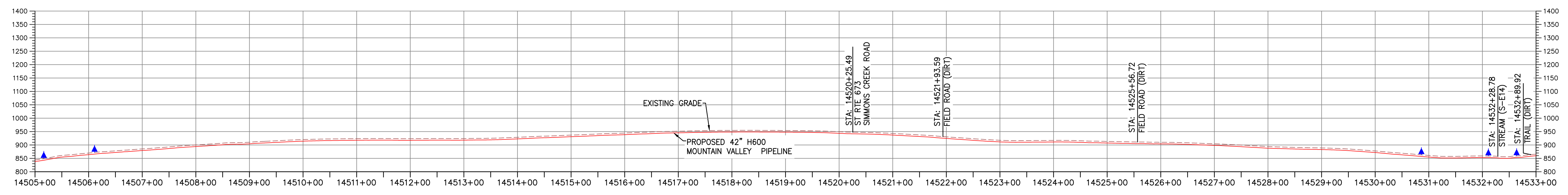
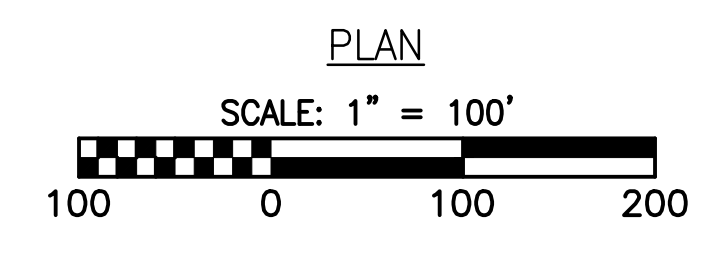
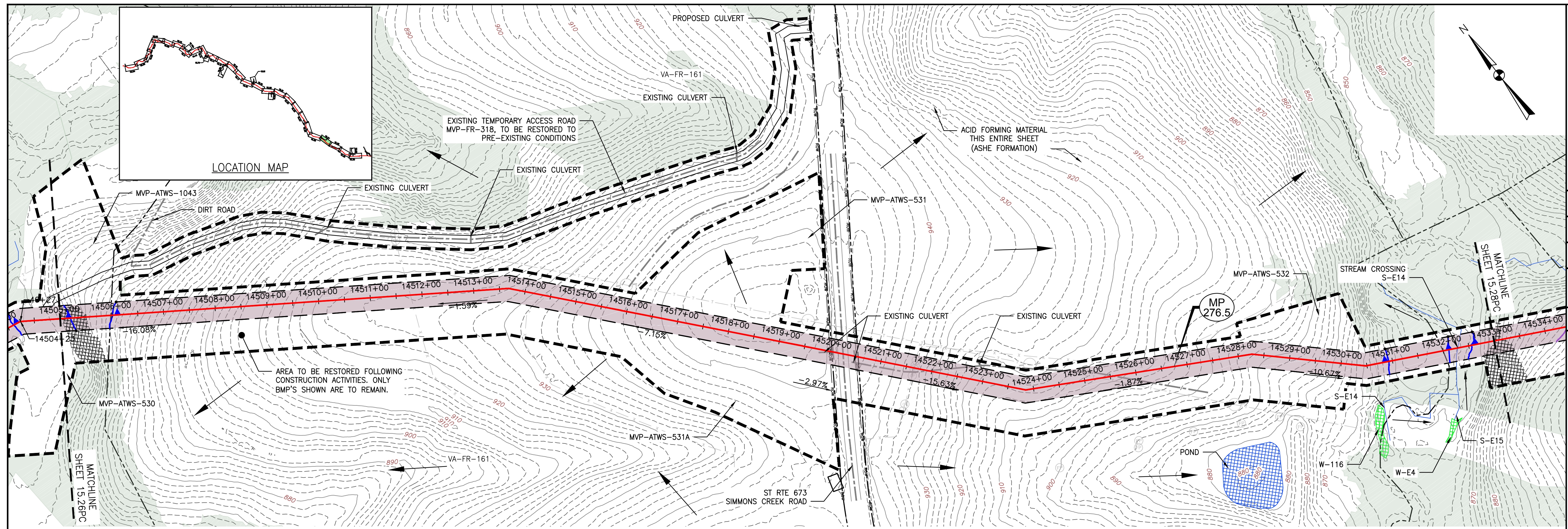
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.26PC	OF 15.93PC



LEGEND

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

NOTES:

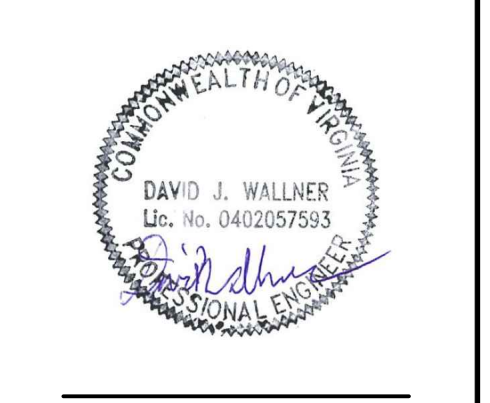
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NO.	DATE	CHKD.:	APPD.:	DESCRIPTION
1	09/11/17	KAL	DW	PLAN SUBMISSION
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS

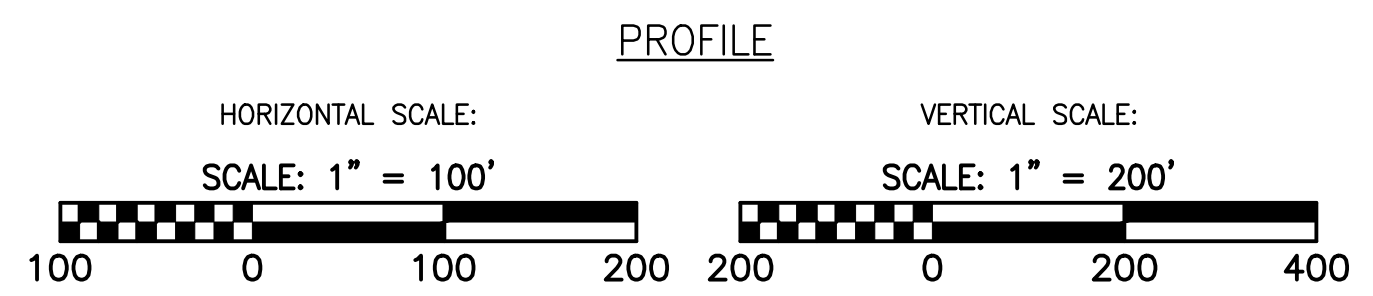
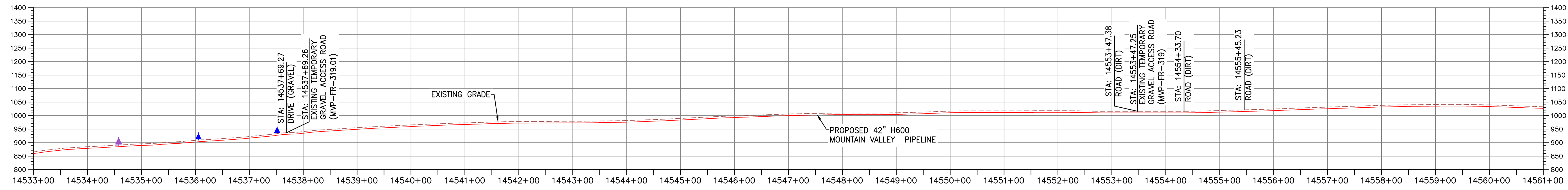
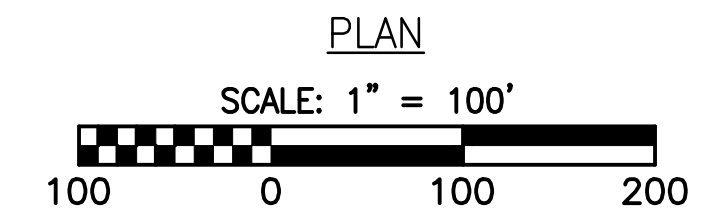
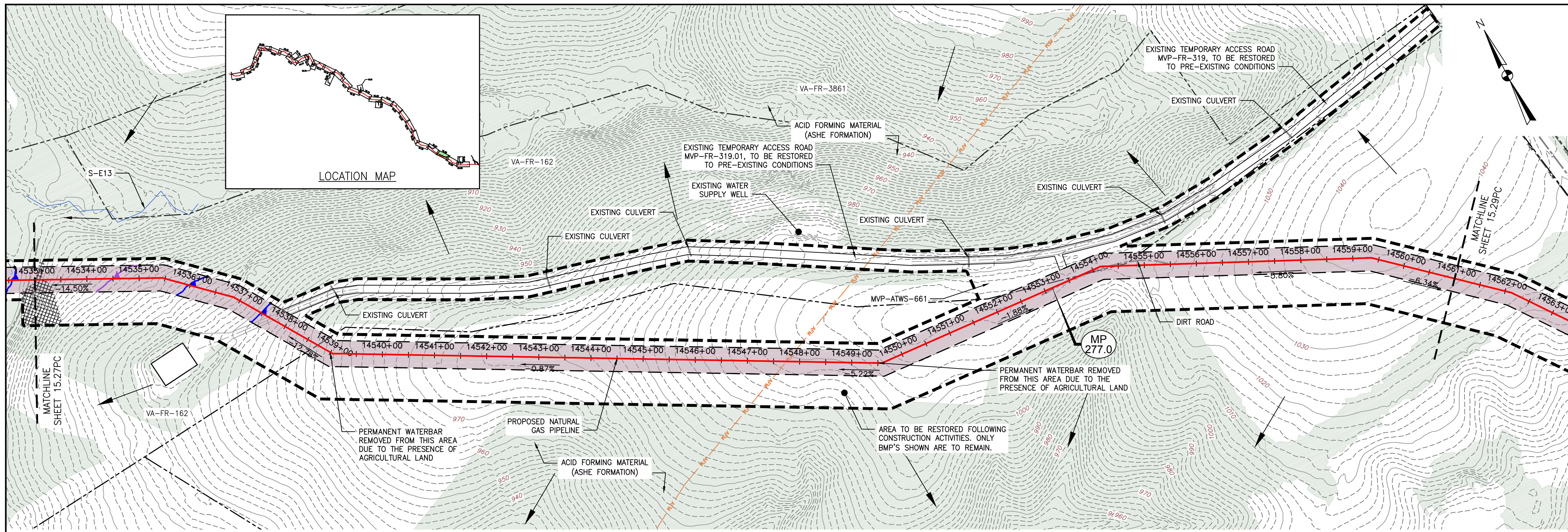
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.27PC	OF 15.93PC



LEGEND

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

NOTES:

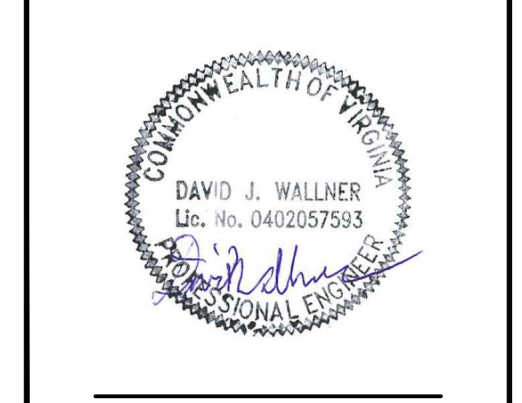
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- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON EITHER END.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	09/11/17	KAL	DW	PLAN SUBMISSION
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS

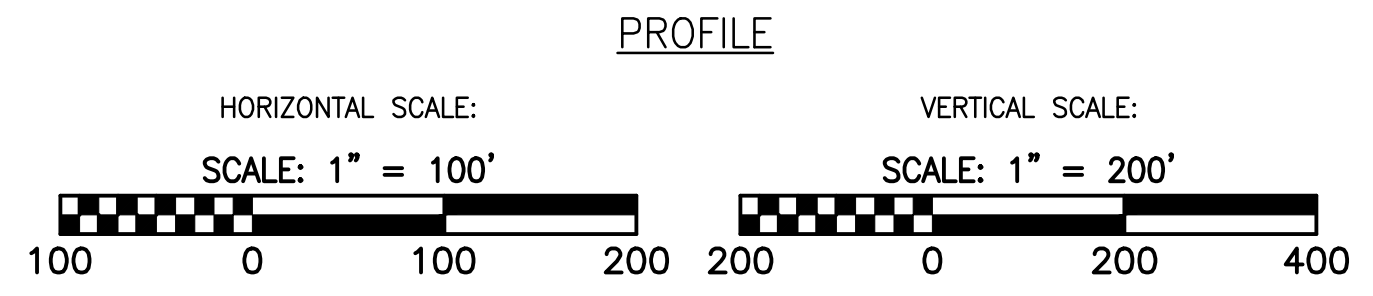
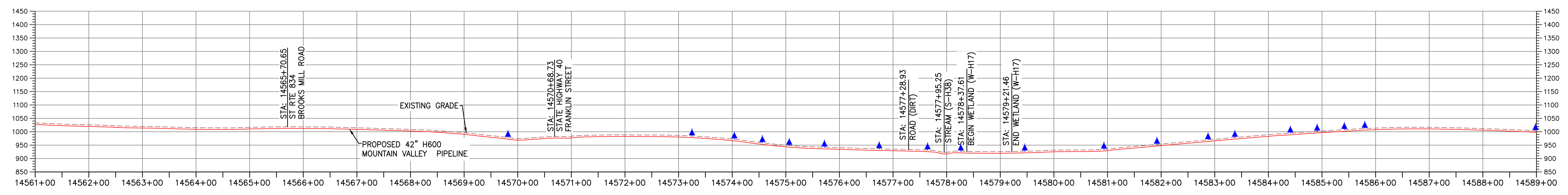
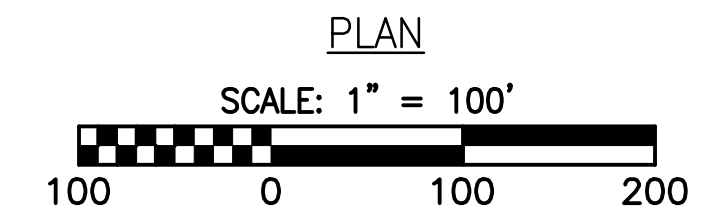
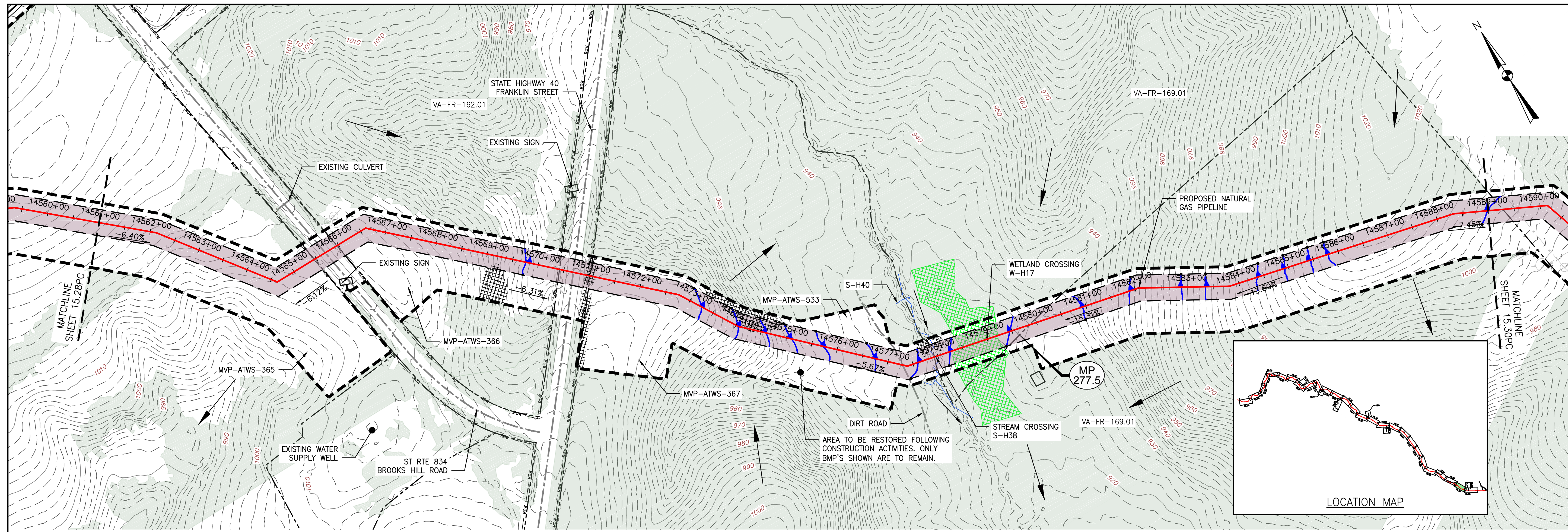
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.28PC	OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	REVISION
5	03/16/18	KAL	RE	REVISION
4	03/04/18	KAL	RE	REVISION
3	02/20/18	KAL	RE	REVISION
2	11/21/17	KAL	RE	REVISION
1	09/11/17	KAL	RE	REVISION

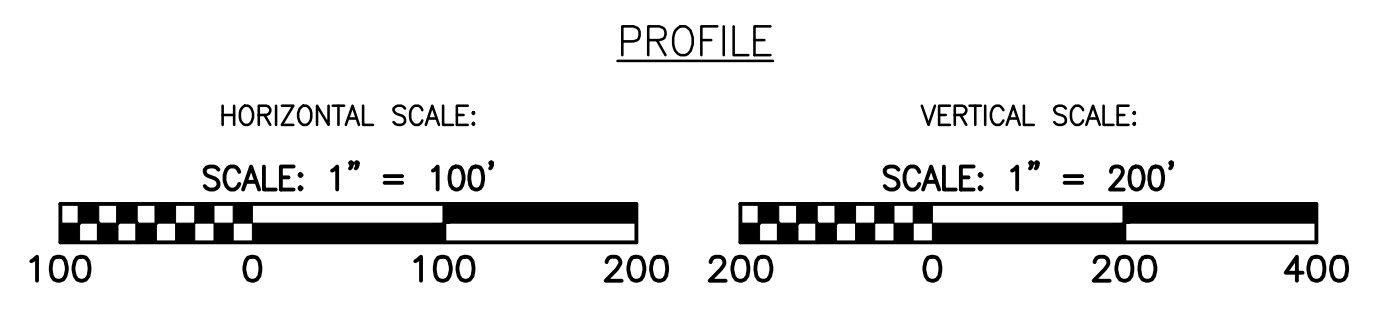
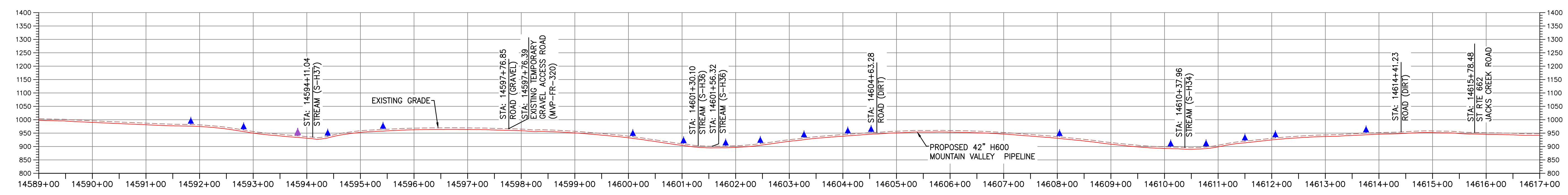
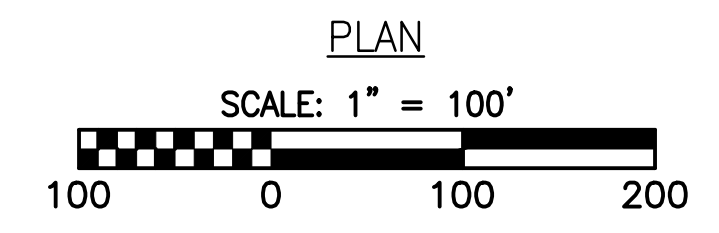
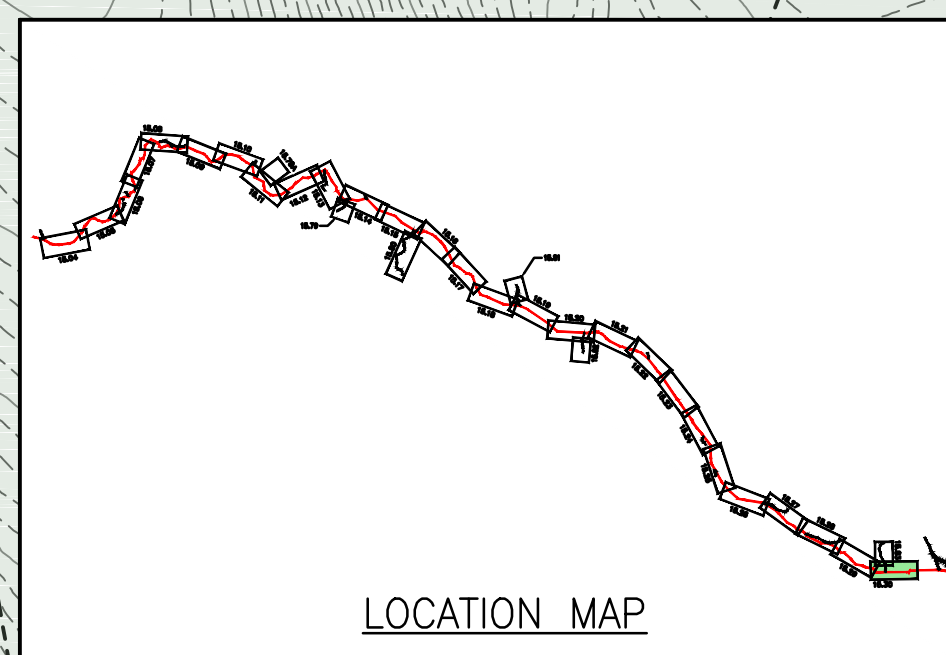
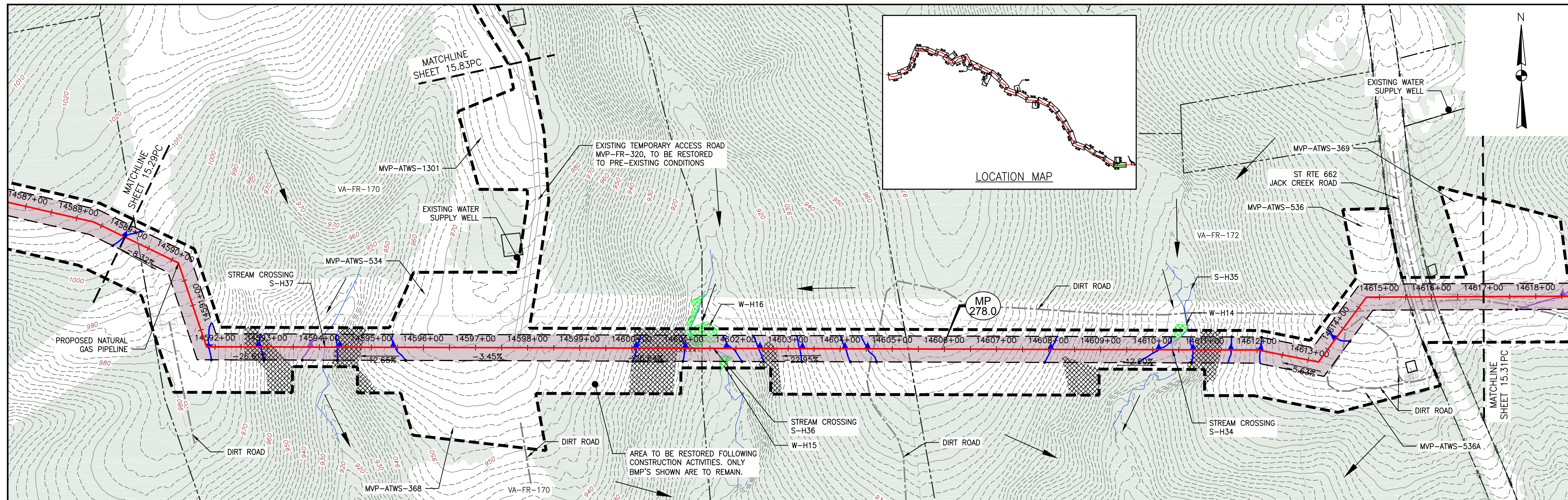
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.29PC	OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

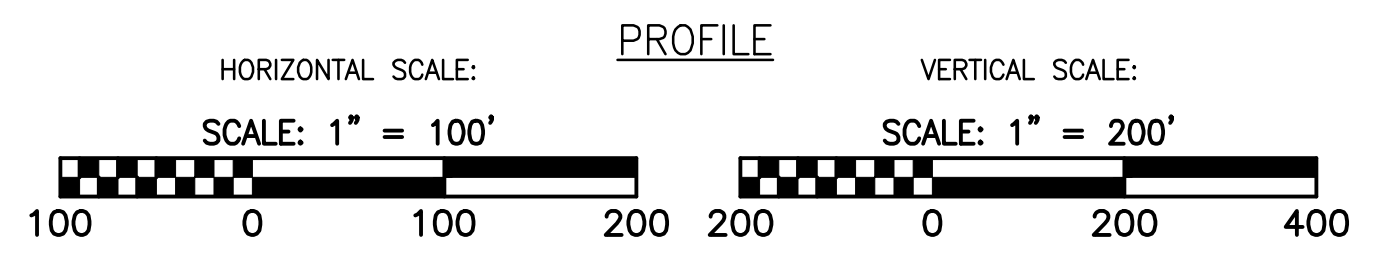
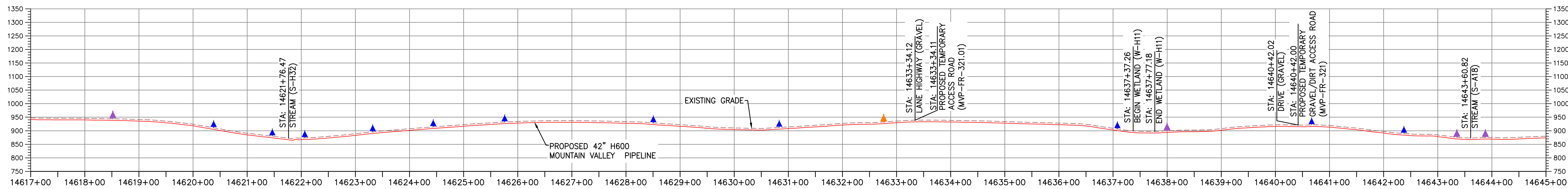
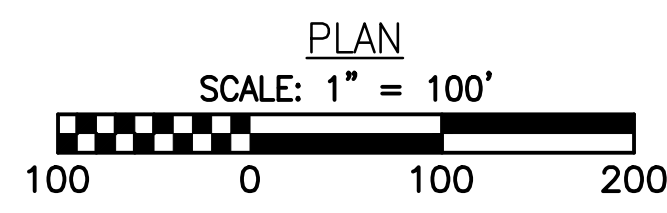
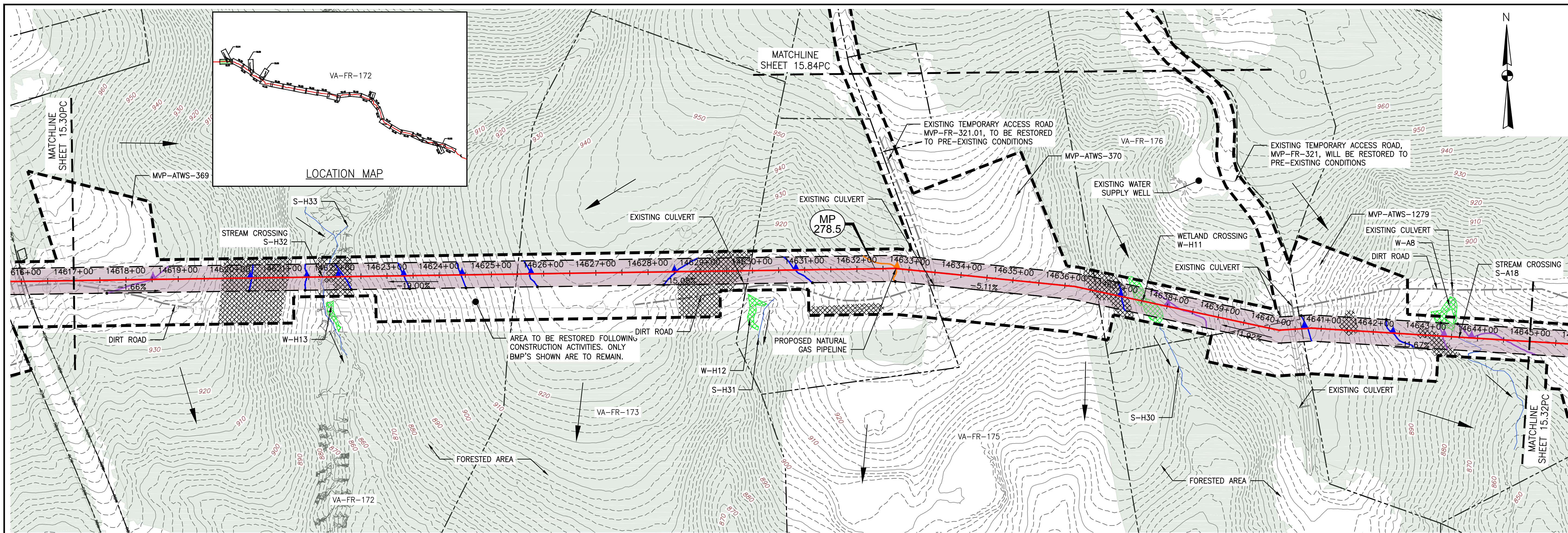
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.30PC OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADED COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADED COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

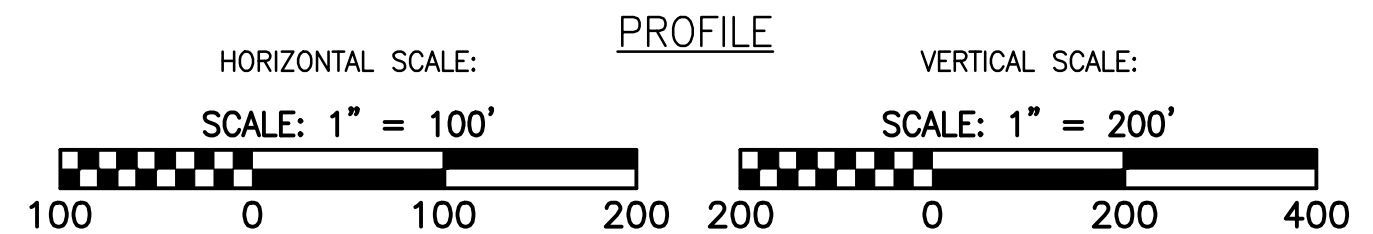
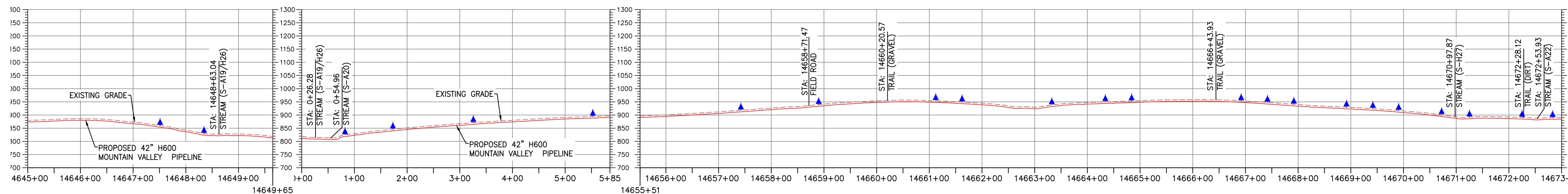
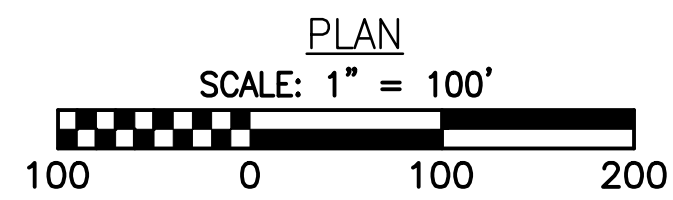
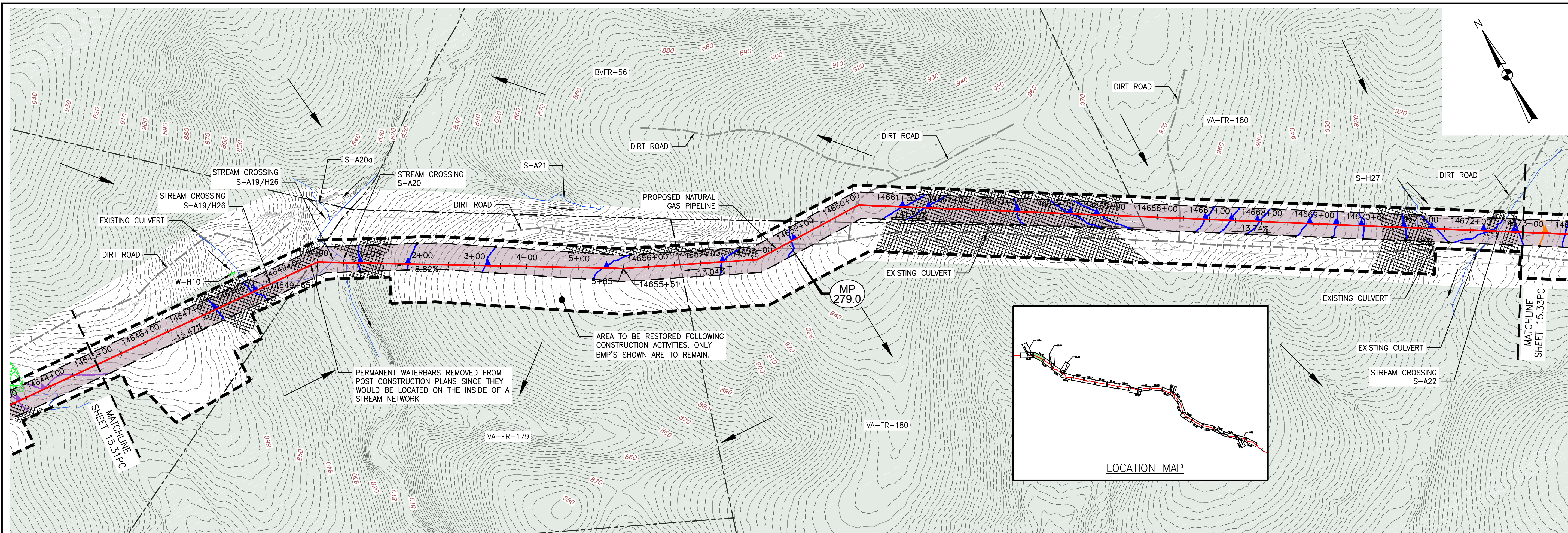
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.31PC OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADQ COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

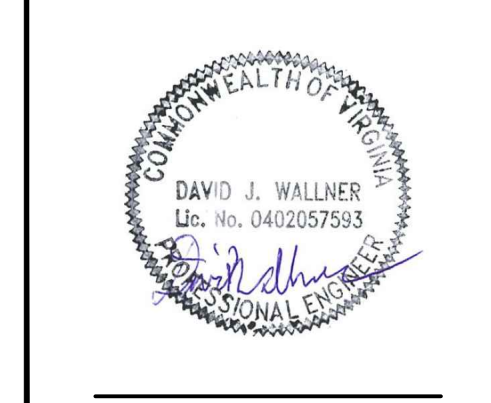
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

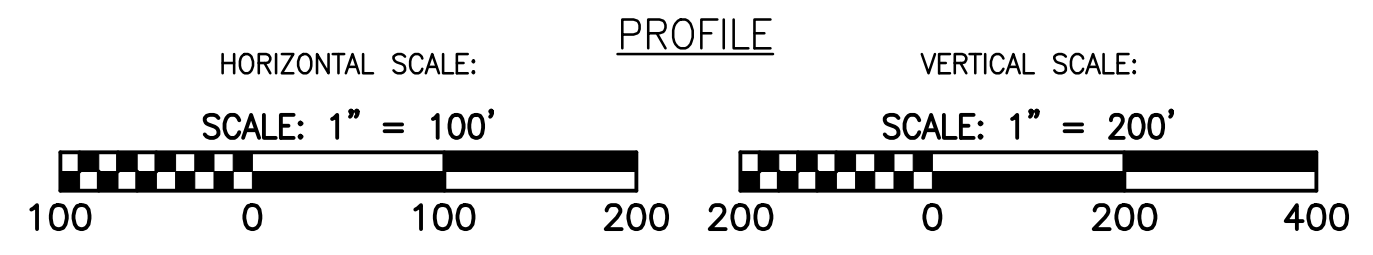
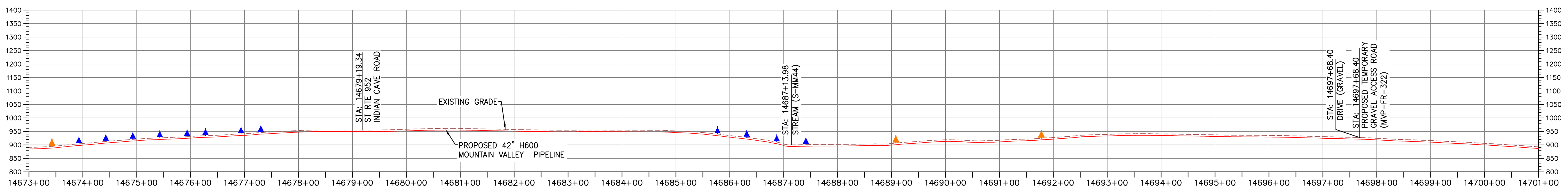
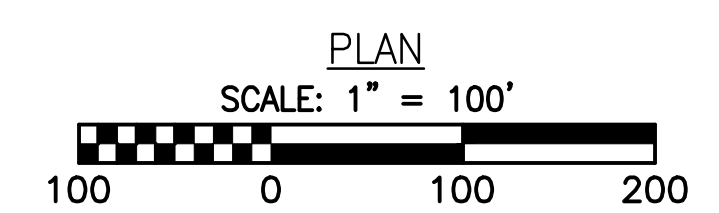
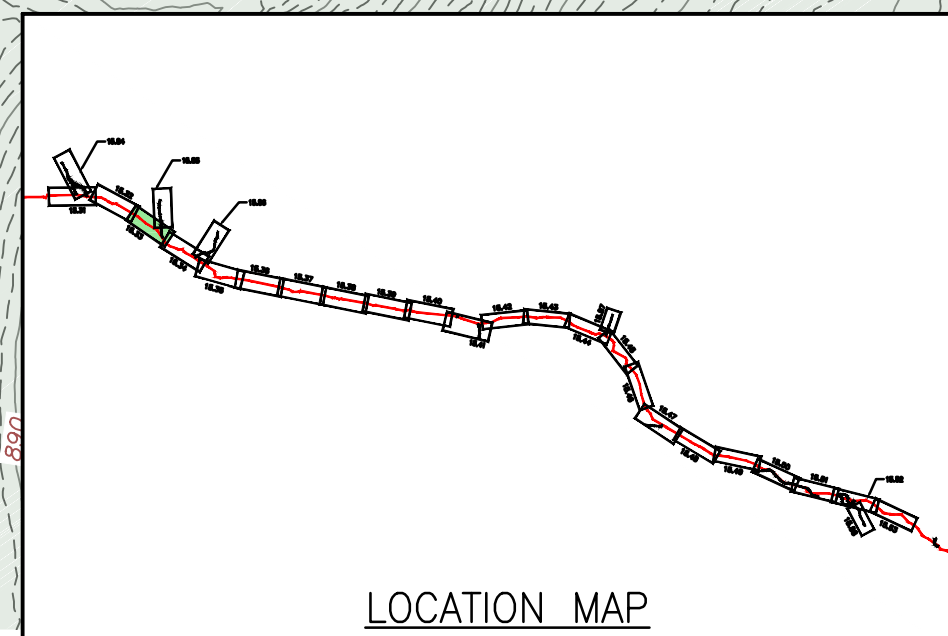
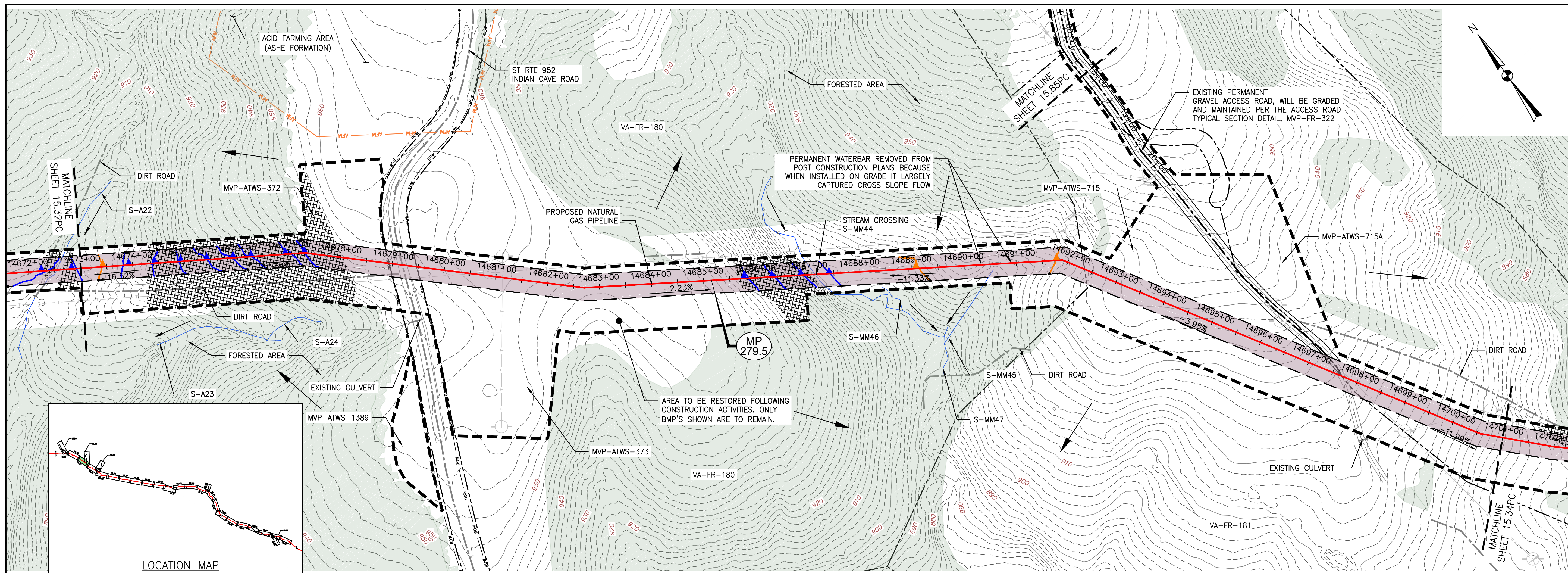
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PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.32PC	OF 15.93PC



LEGEND

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

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

NOTES:

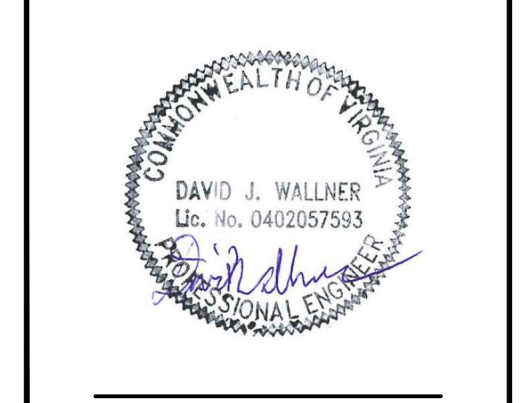
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NO.	DATE	APPD.	CHKD.	DWN.	DESCRIPTION
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

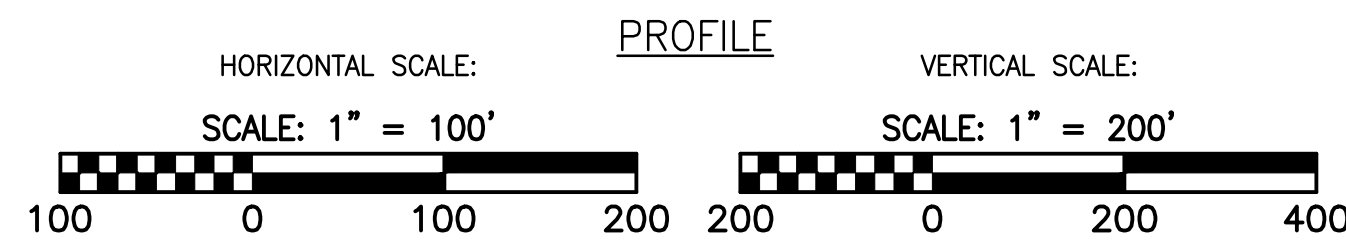
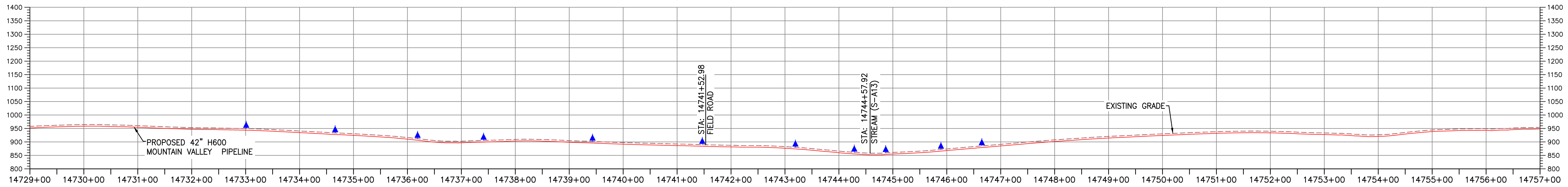
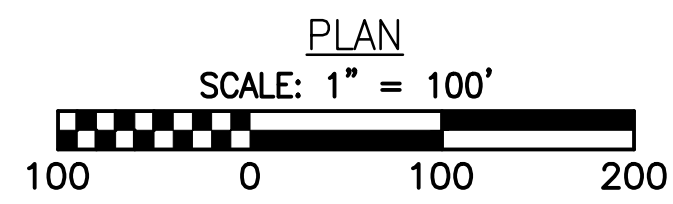
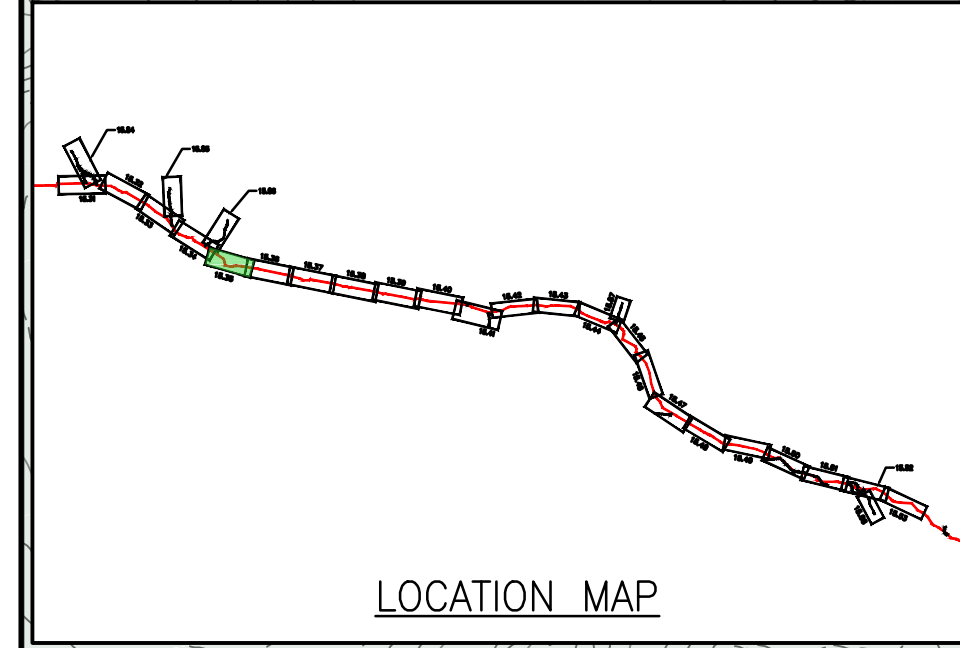
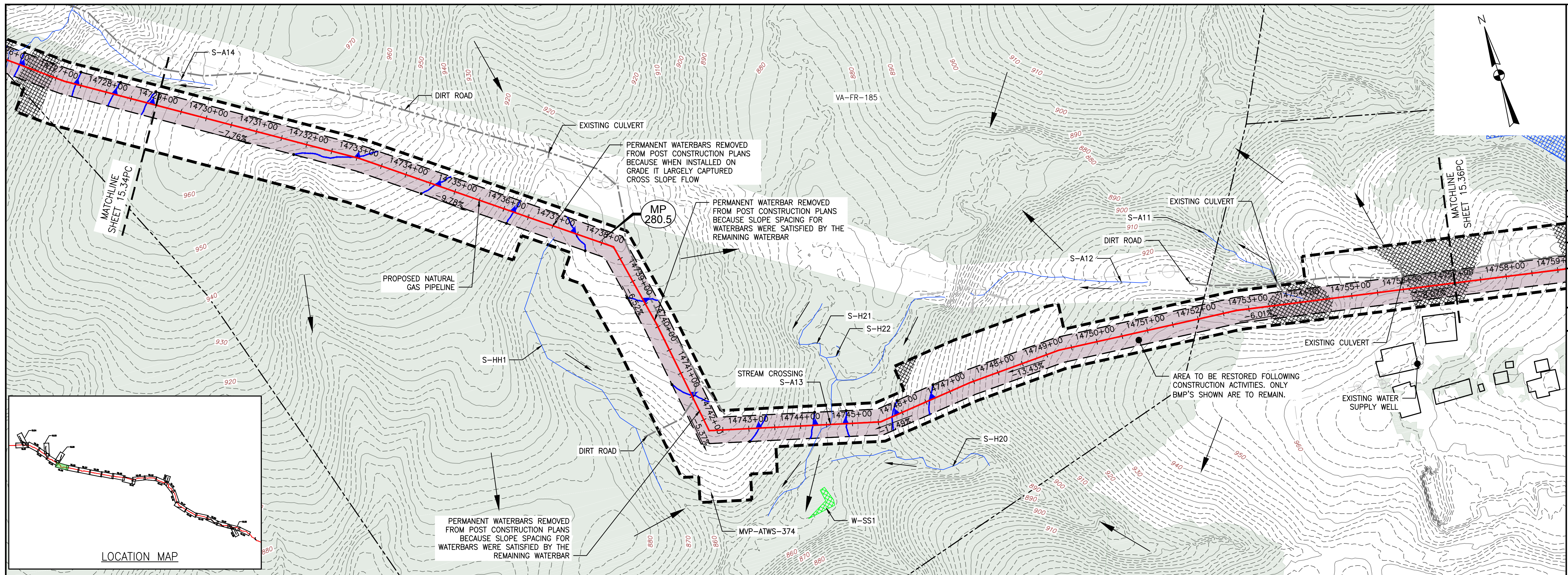
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.33PC	OF 15.93PC



LEGEND

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

NOTES:

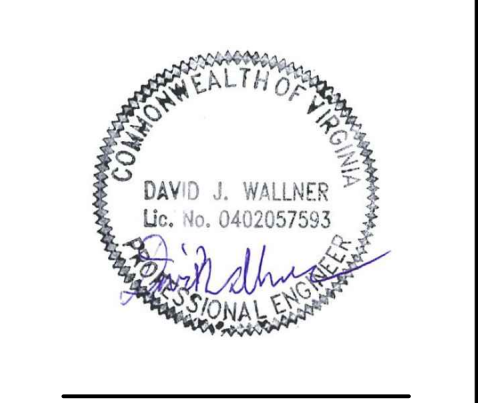
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VABEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VABEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VABEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VABEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

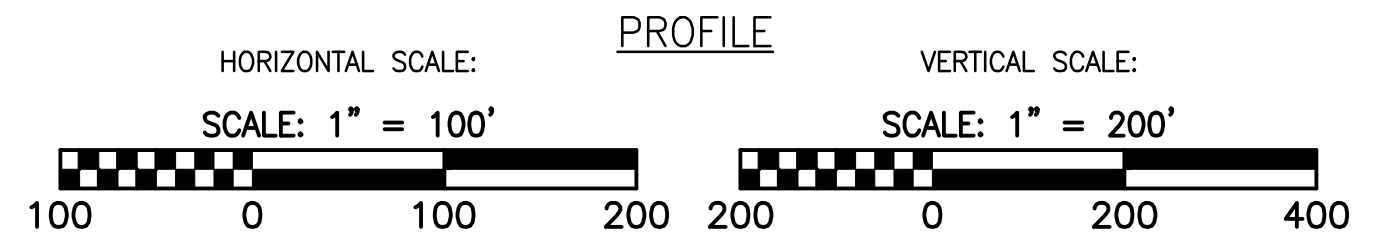
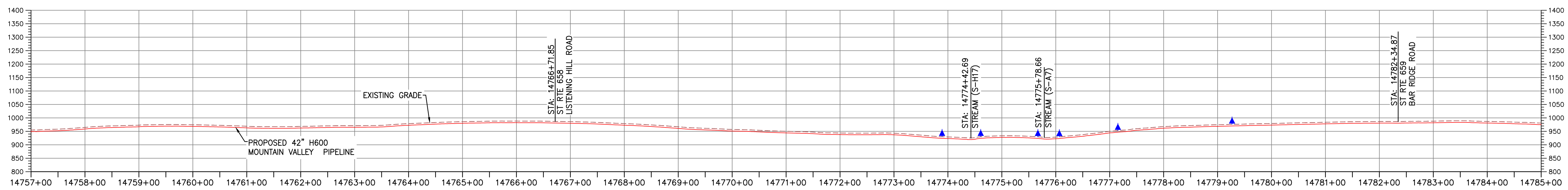
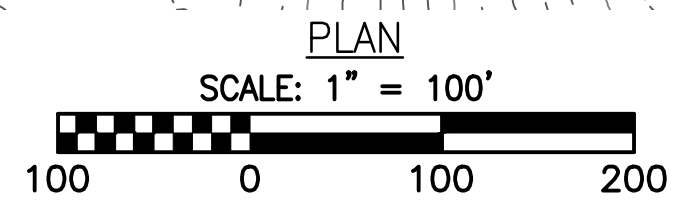
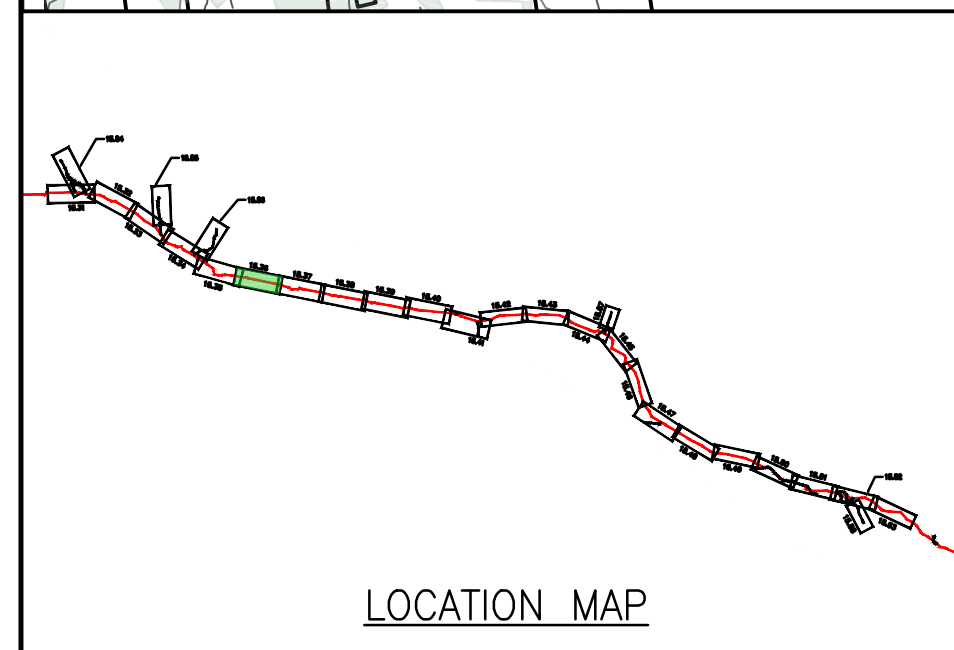
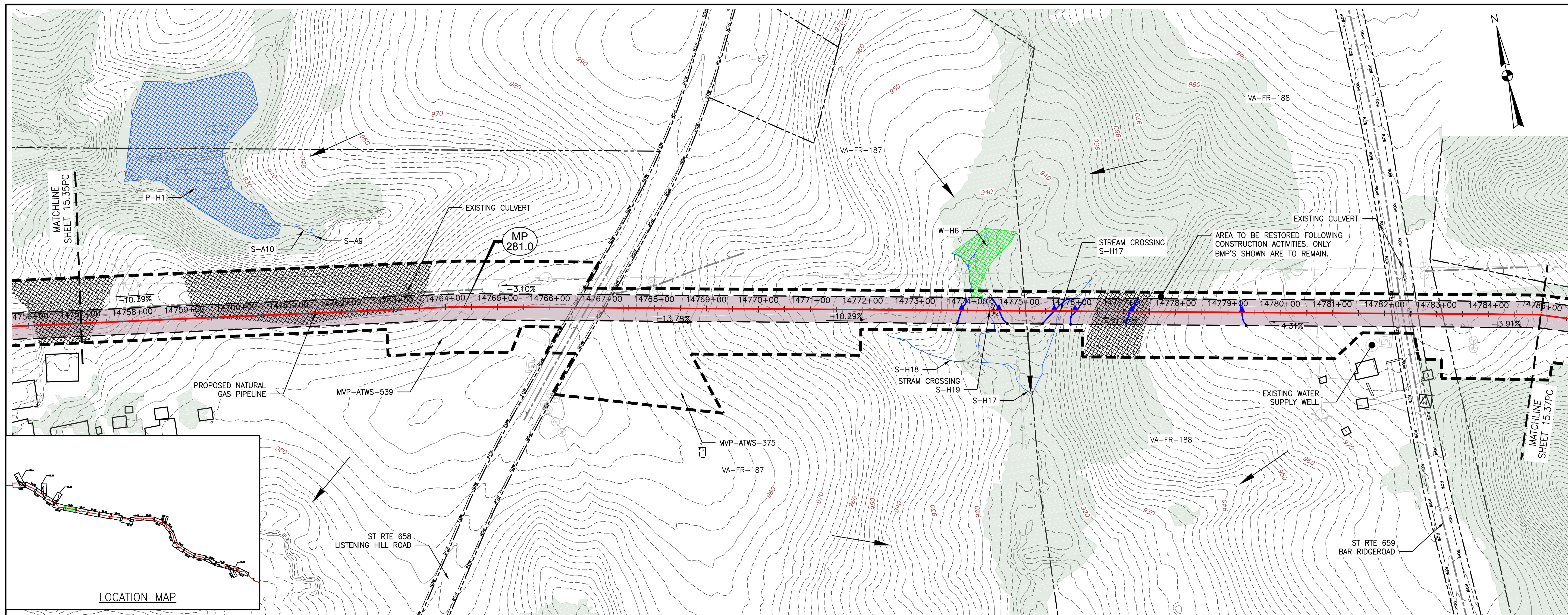
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.35PC OF 15.93PC



LEGEND

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

NOTES:

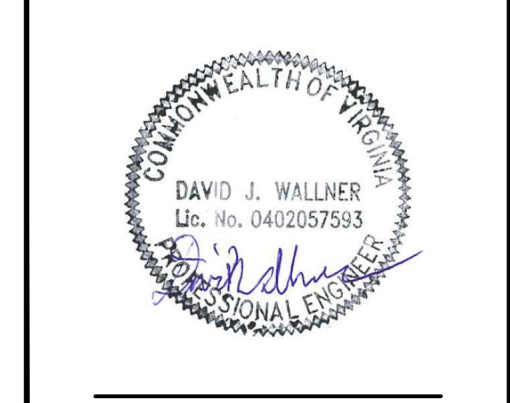
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1	09/11/17	KAL	DW	PLAN SUBMISSION

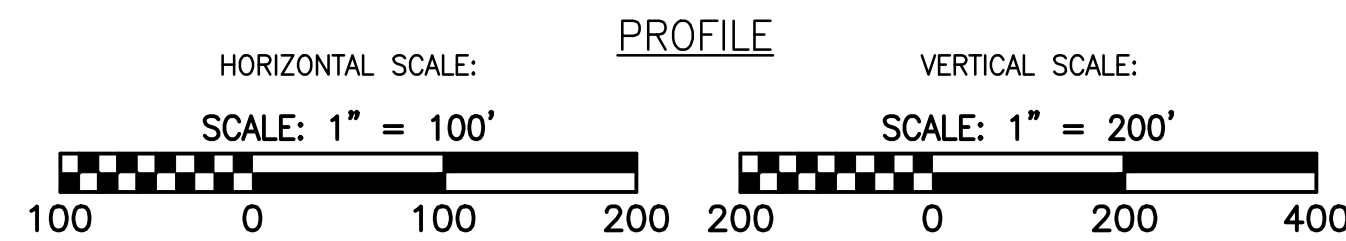
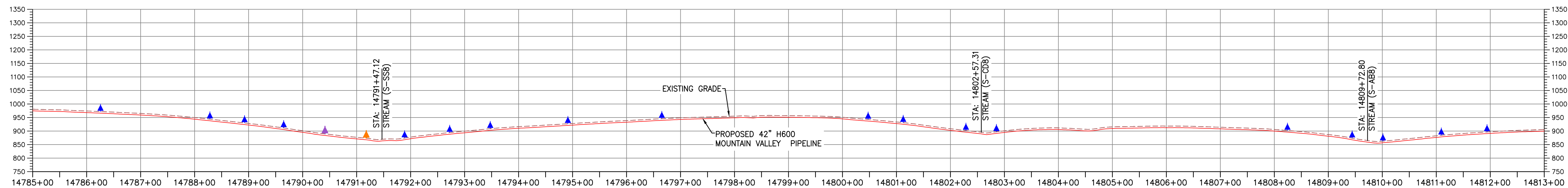
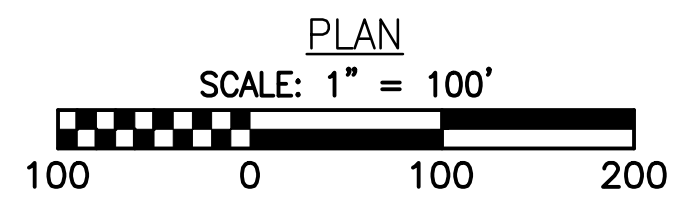
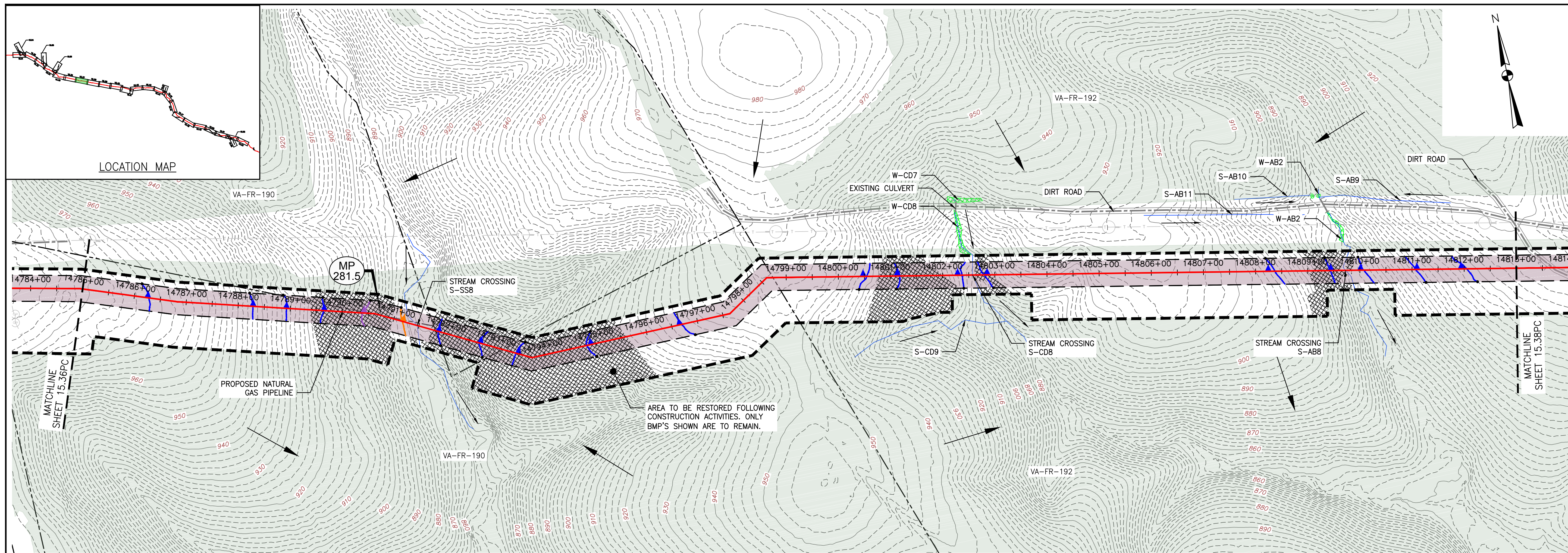
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.36PC OF 15.93PC	REVISION



LEGEND

- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- - - EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
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- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
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- PROPOSED PIPELINE
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- PERMANENT WATER BAR 20' END TREATMENT
- STEEP SLOPE AREA
- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

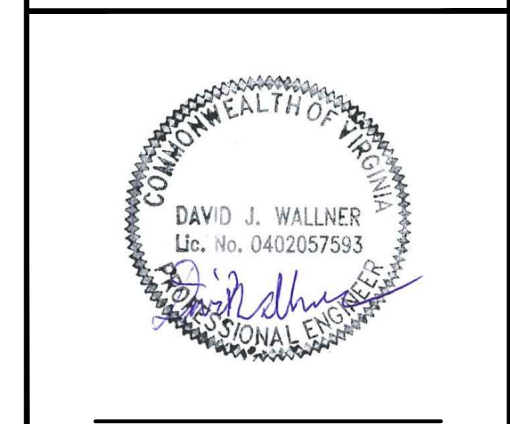
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- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON EITHER END.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		ADDRESS VABEQ COMMENTS
5	03/16/18	KAL		ADDRESS VABEQ COMMENTS
4	03/04/18	KAL		ADDRESS VABEQ COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL		ADDRESS VABEQ COMMENTS
1	09/11/17	KAL		PLAN SUBMISSION

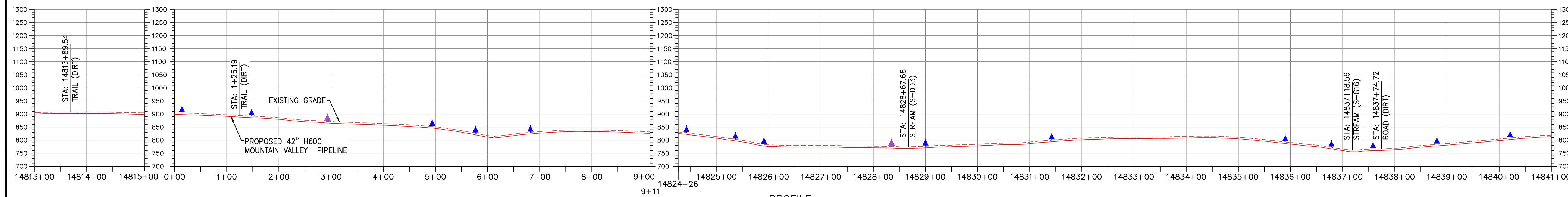
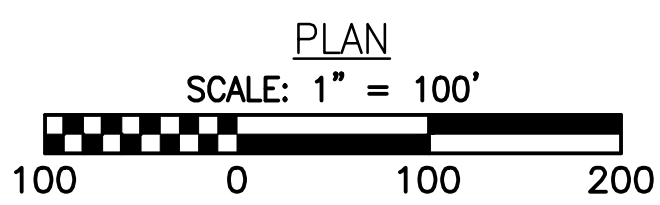
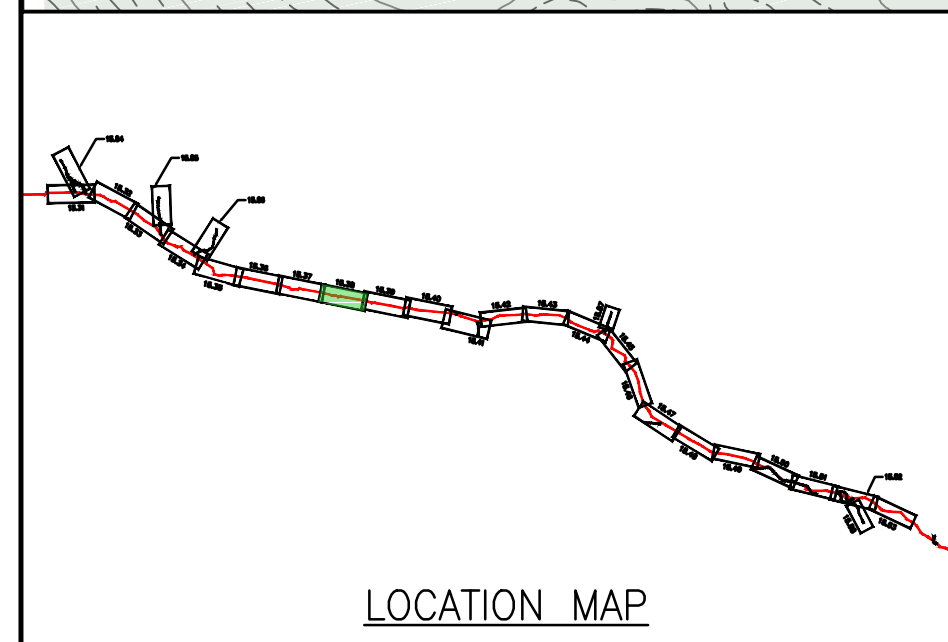
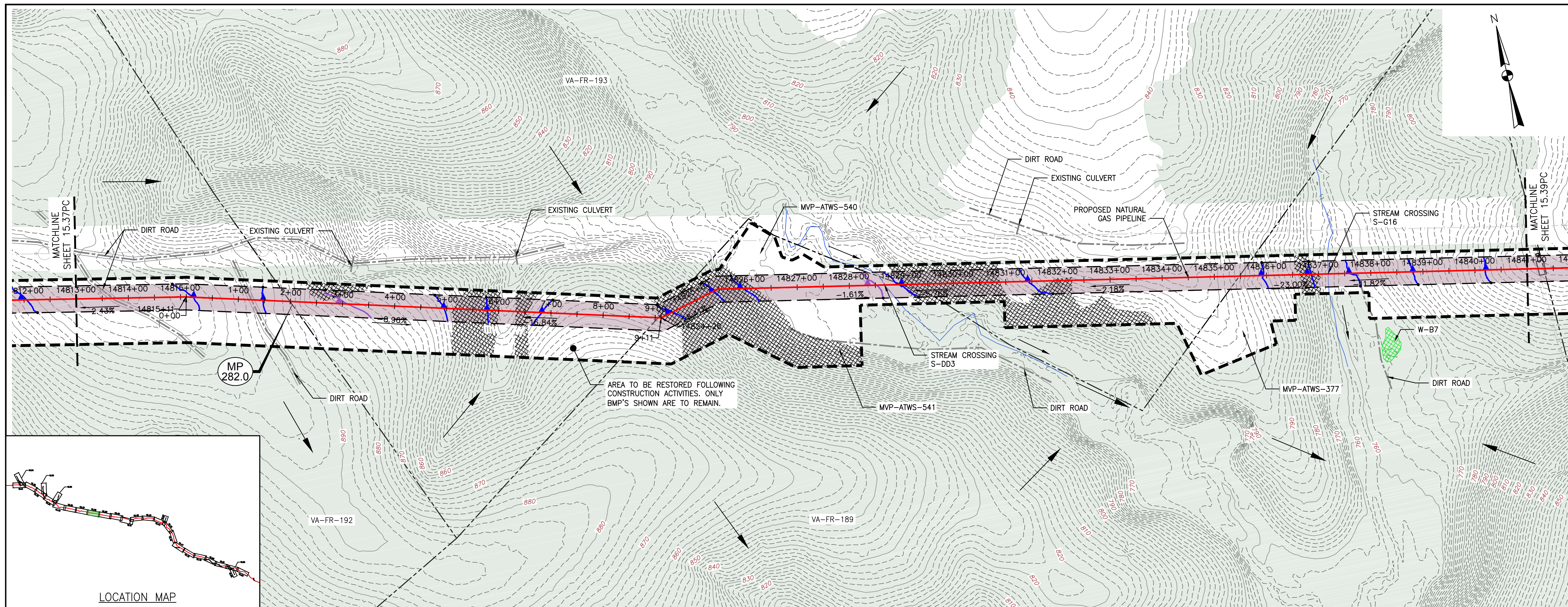
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.37PC OF 15.93PC	REVISION



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

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		ADDRESS VABEQ COMMENTS
5	03/16/18	KAL		ADDRESS VABEQ COMMENTS
4	03/04/18	KAL		ADDRESS VABEQ COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
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1	09/11/17	KAL		PLAN SUBMISSION

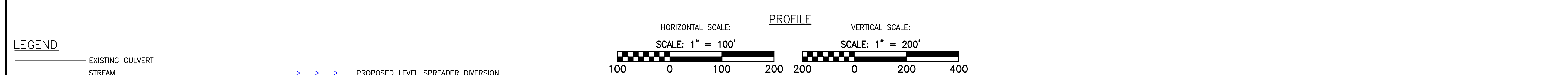
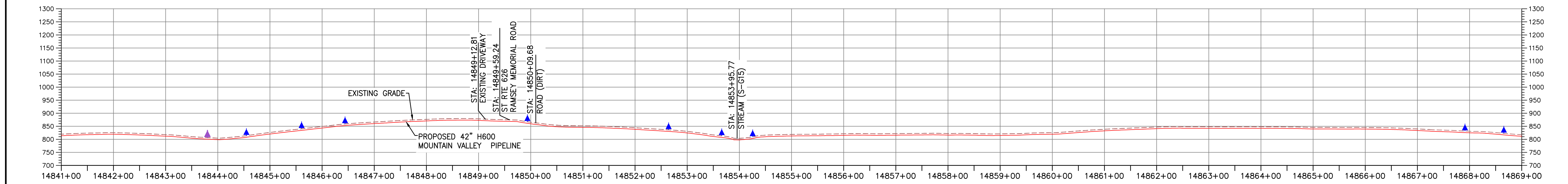
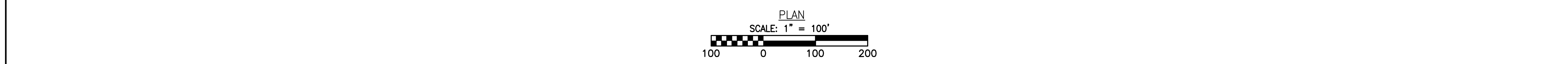
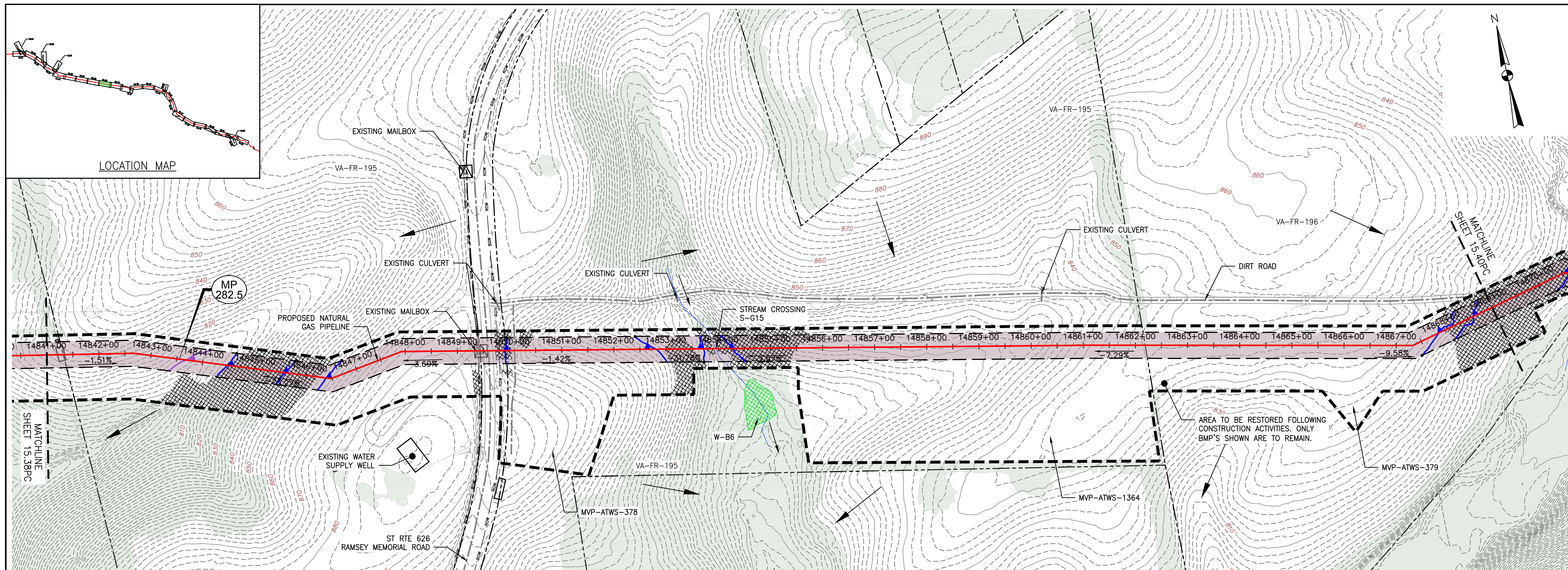
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHEET NO. 15.38PC OF 15.93PC



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

- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADQC COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADQC COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADQC COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADQC COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

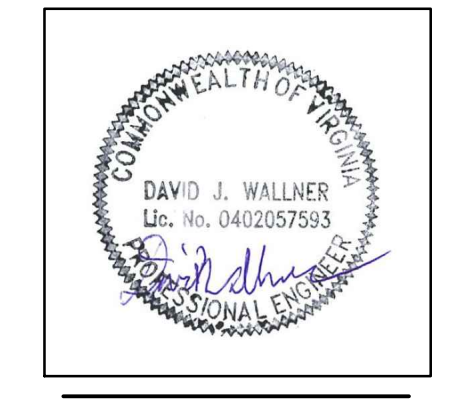
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

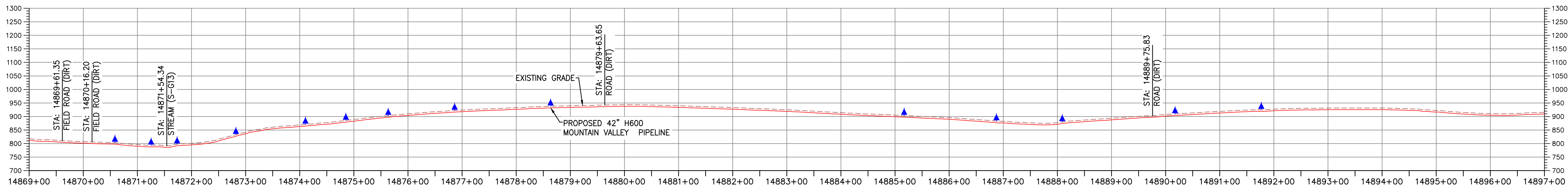
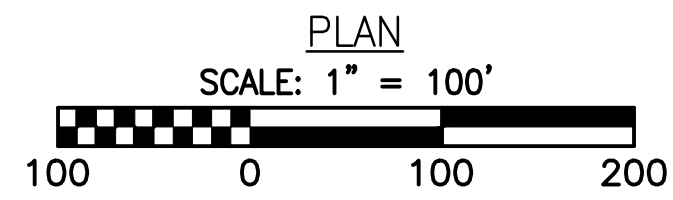
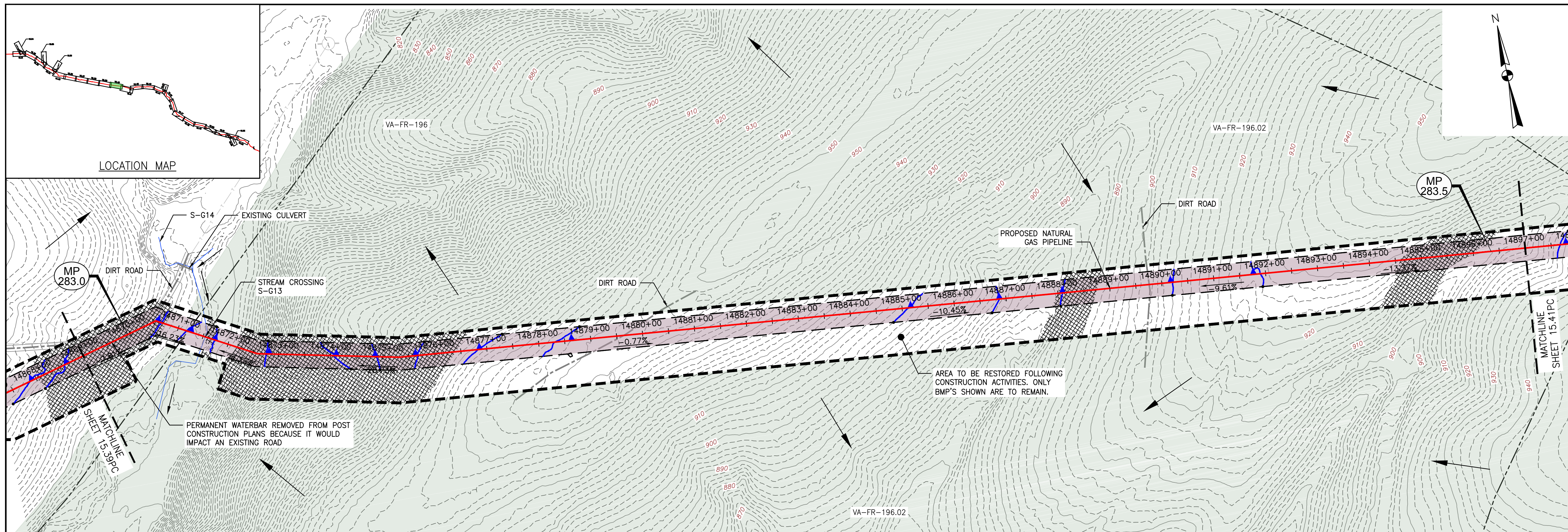
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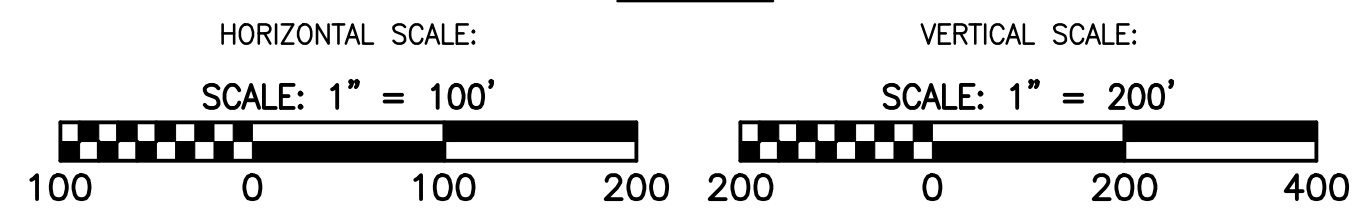
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.39PC	OF 15.93PC



PROFILE



LEGEND

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

NOTES:

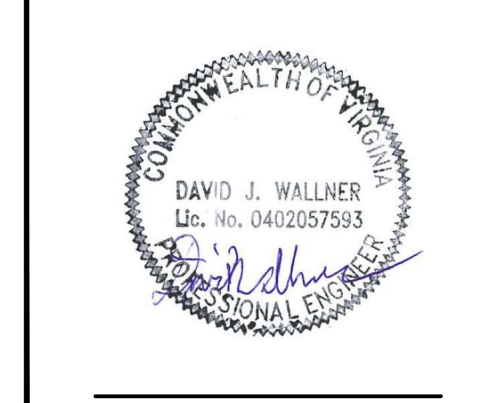
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3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

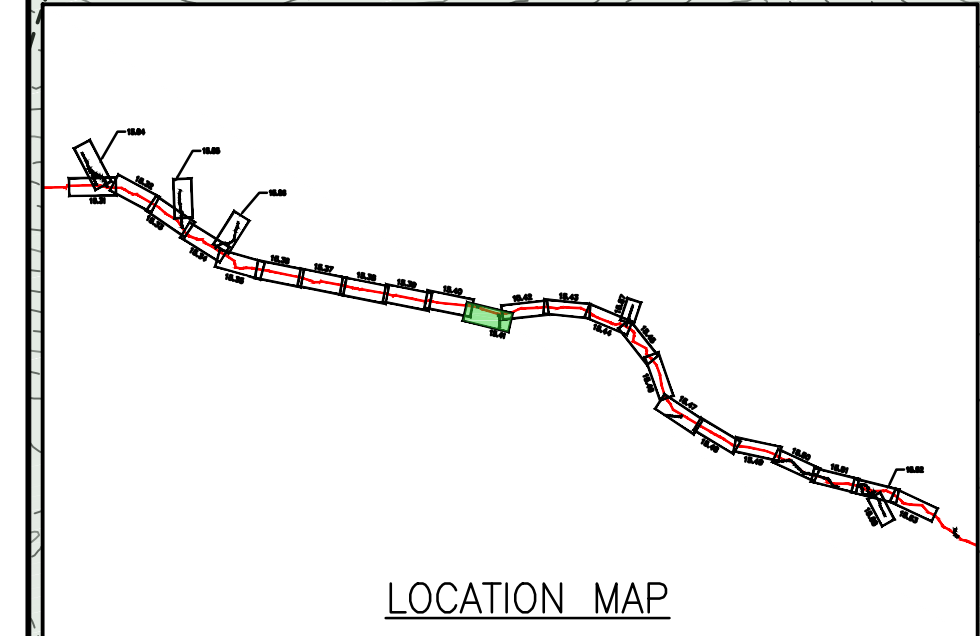
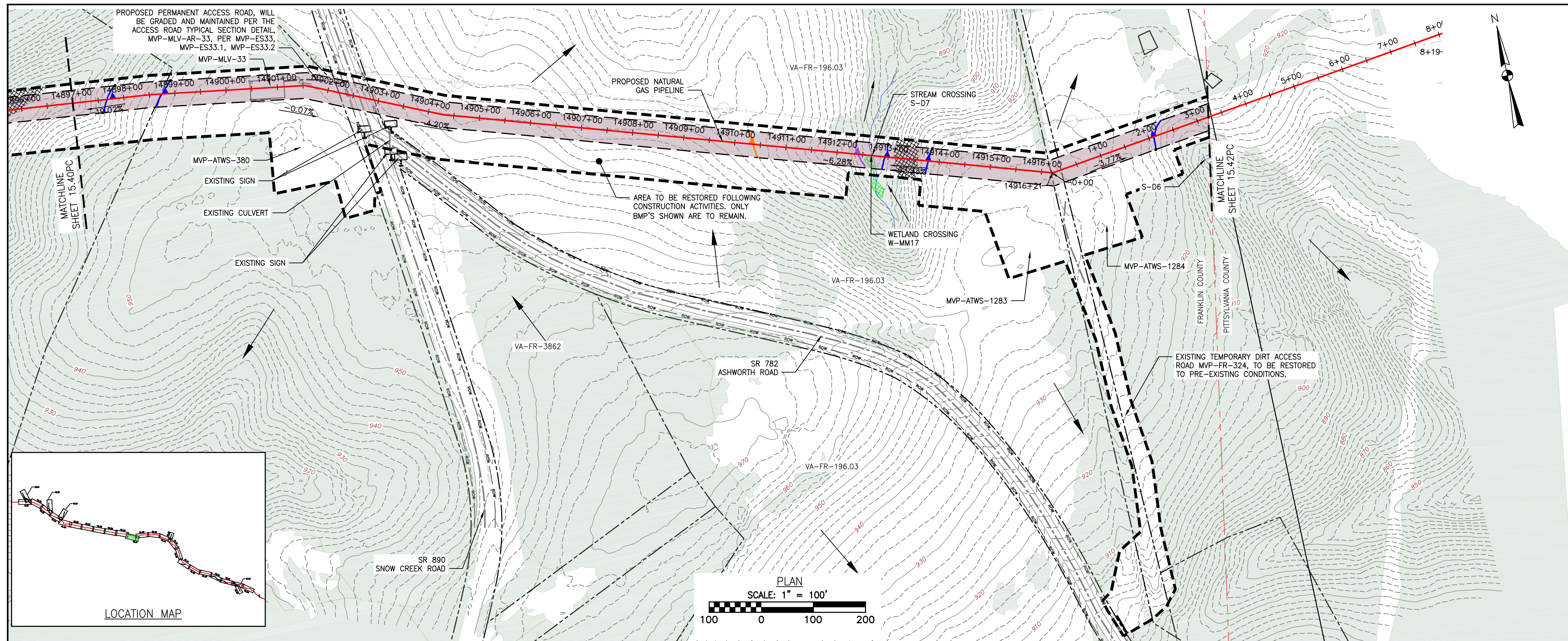
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
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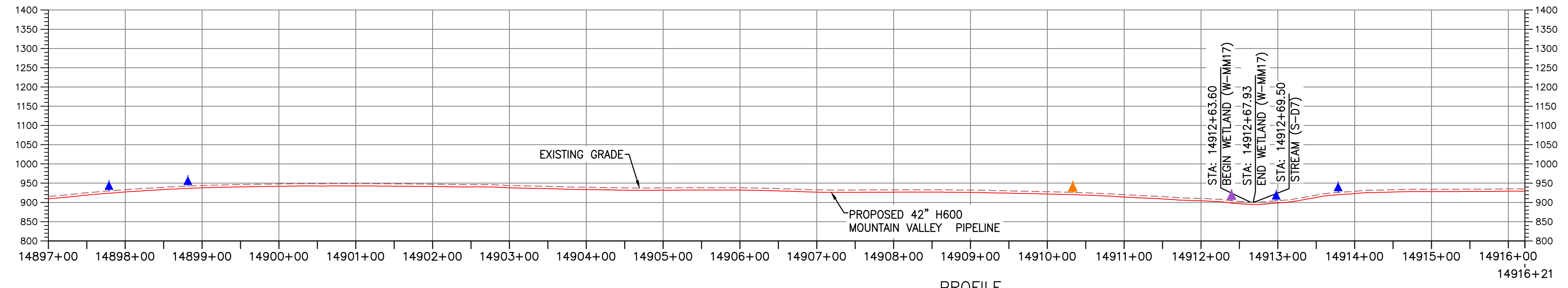
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.40PC OF 15.93PC

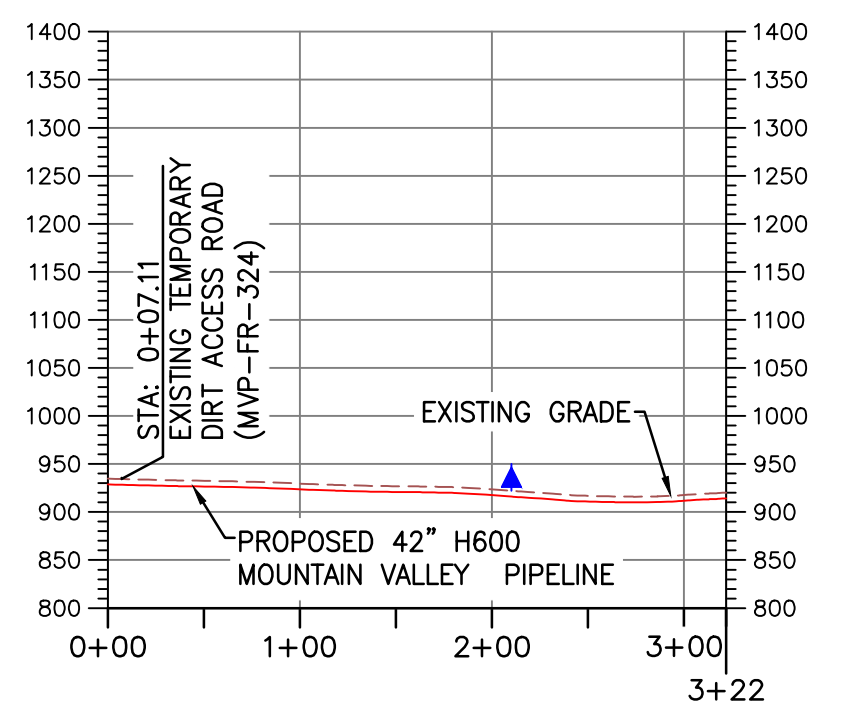


PLAN
SCALE: 1" = 100'



PROFILE

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



LEGEND

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

NOTES:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADED COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADED COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
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1	09/11/17	KAL	DW	PLAN SUBMISSION

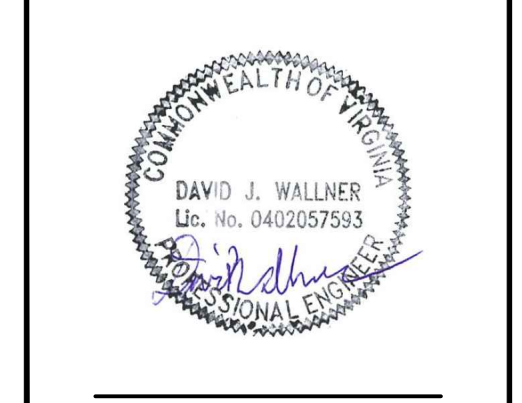
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

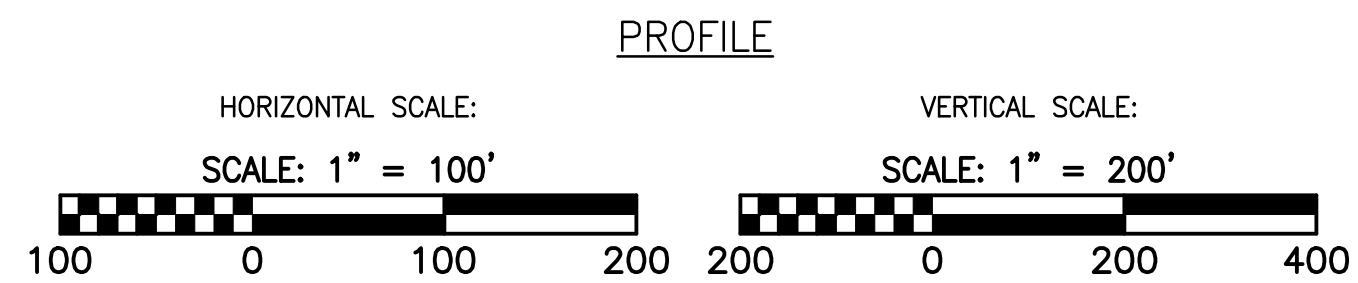
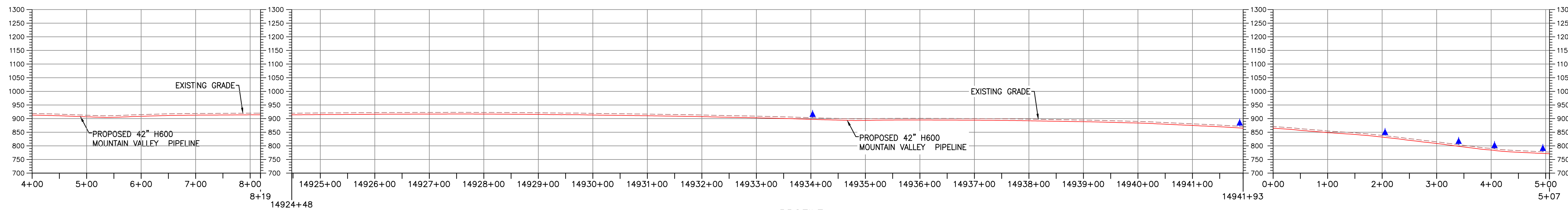
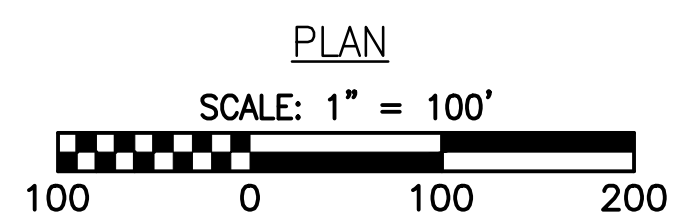
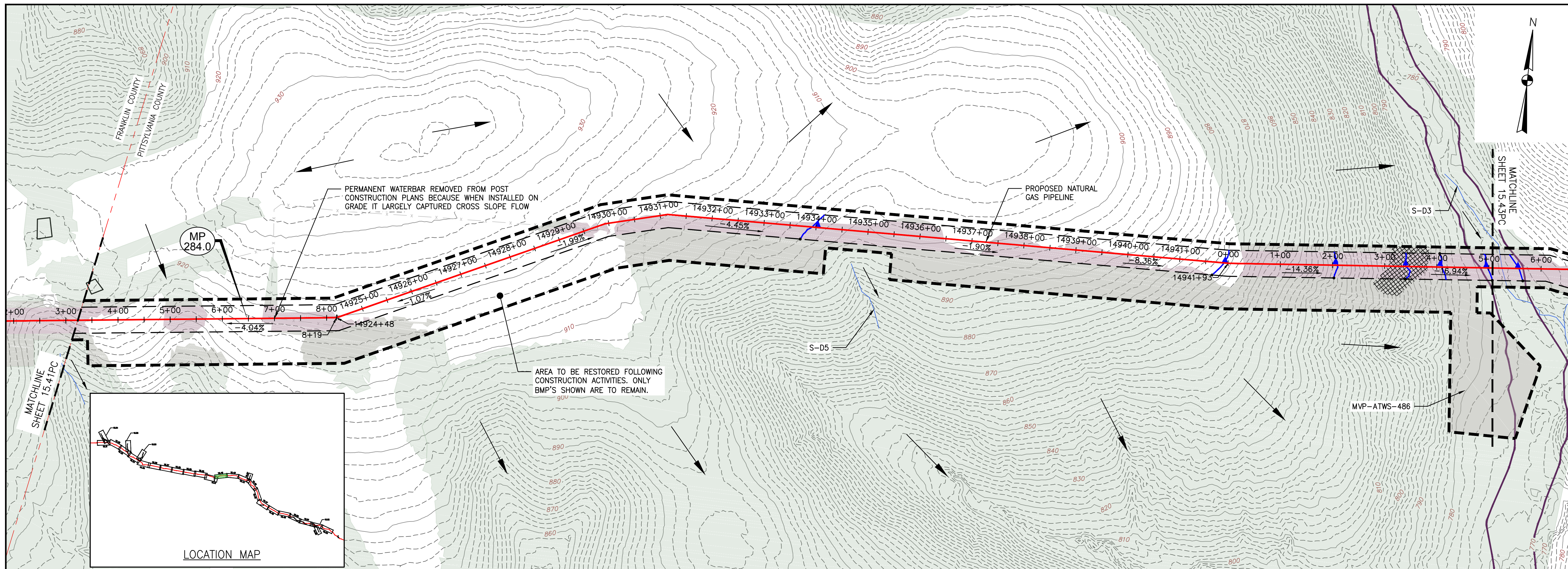
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.41PC OF 15.93PC



LEGEND

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

NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		REVISION
5	03/16/18	KAL		REVISION
4	03/04/18	KAL		REVISION
3	02/20/18	KAL		REVISION
2	11/21/17	KAL		REVISION
1	09/11/17	KAL		REVISION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

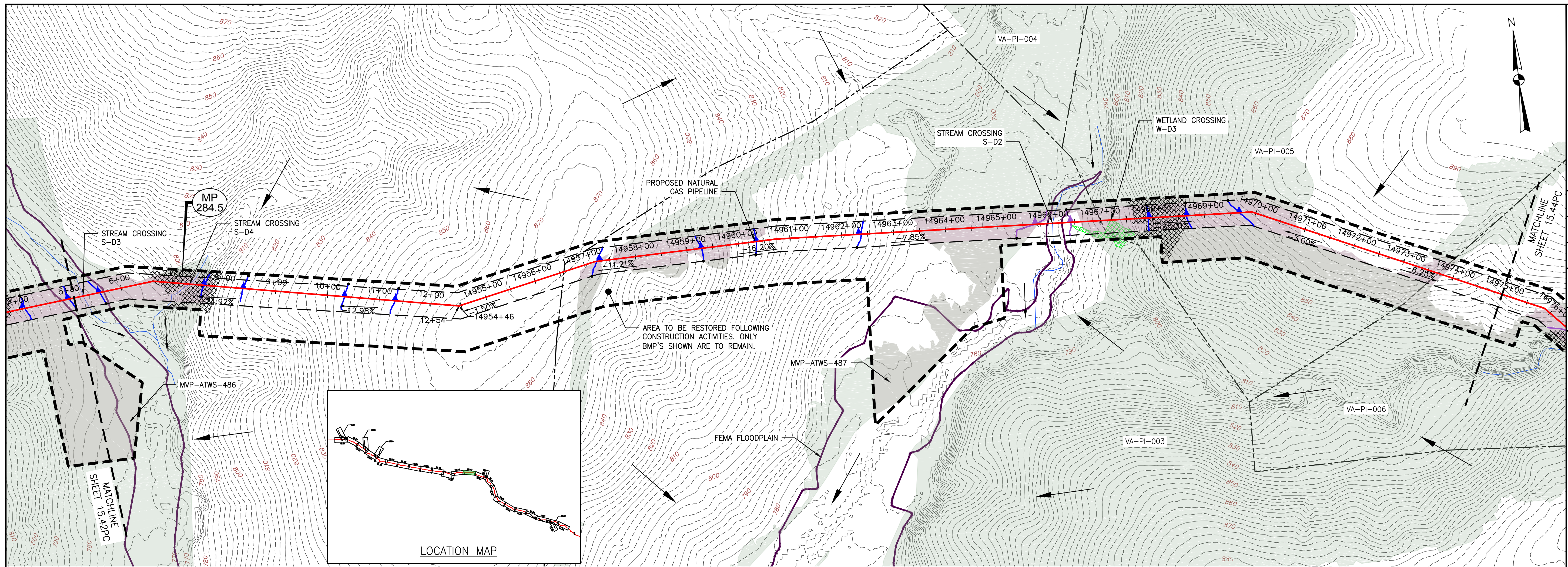
MOUNTAIN VALLEY PIPELINE, LLC
555 SOUTHPOINTE BOULEVARD, SUITE 200
CANONSBURG, PA 15317

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PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

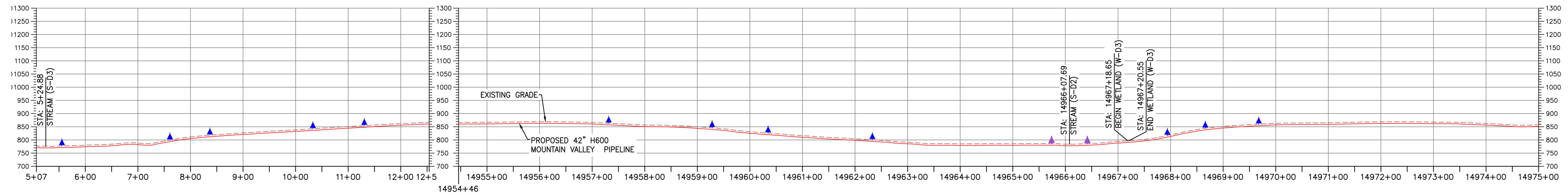
DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.42PC OF	15.93PC



PLAN

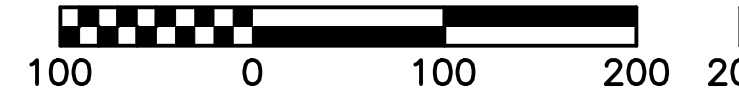
SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

NOTES:

1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADQ COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

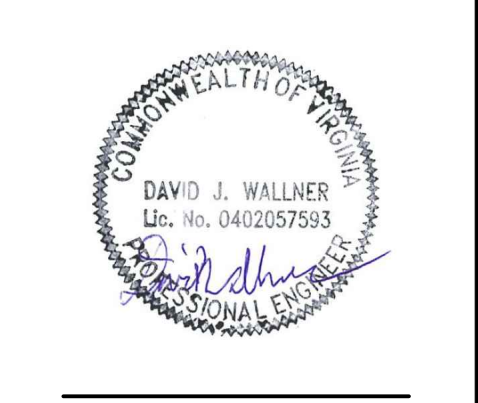
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

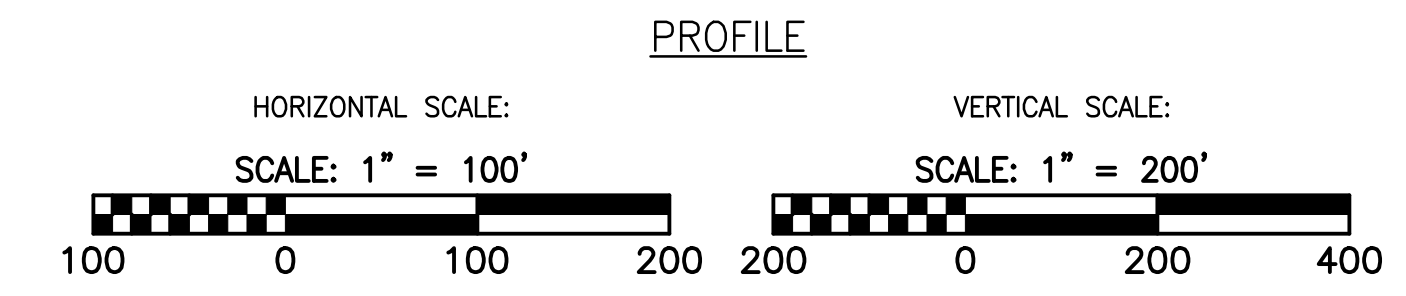
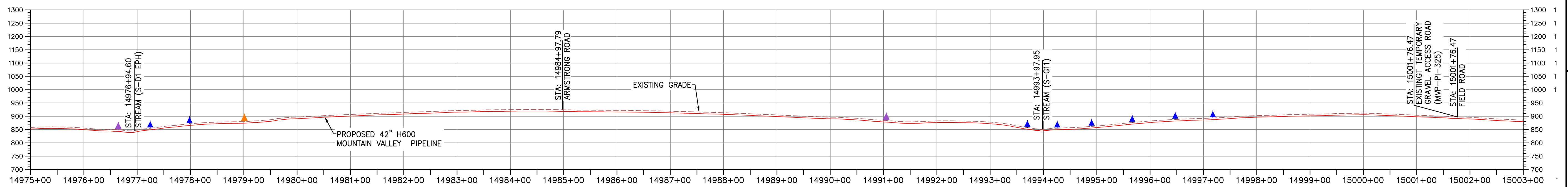
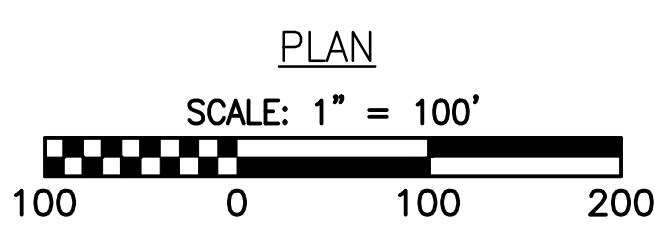
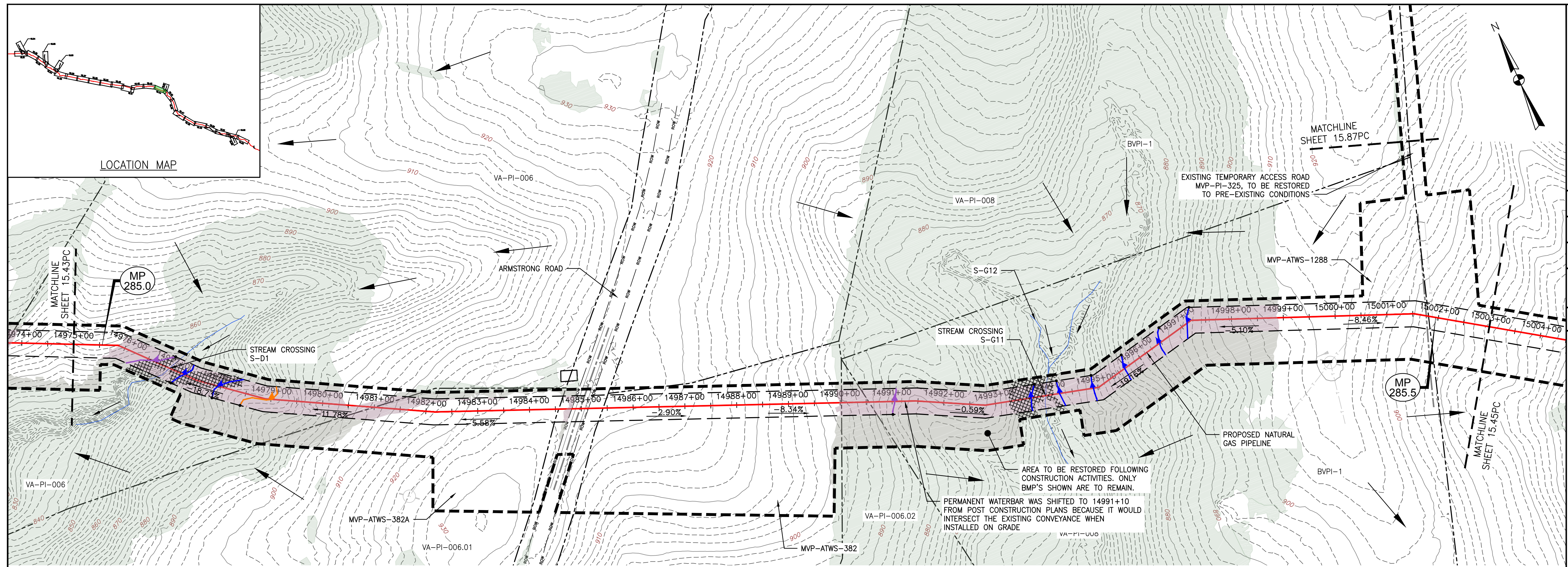
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.43PC OF	15.93PC



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

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

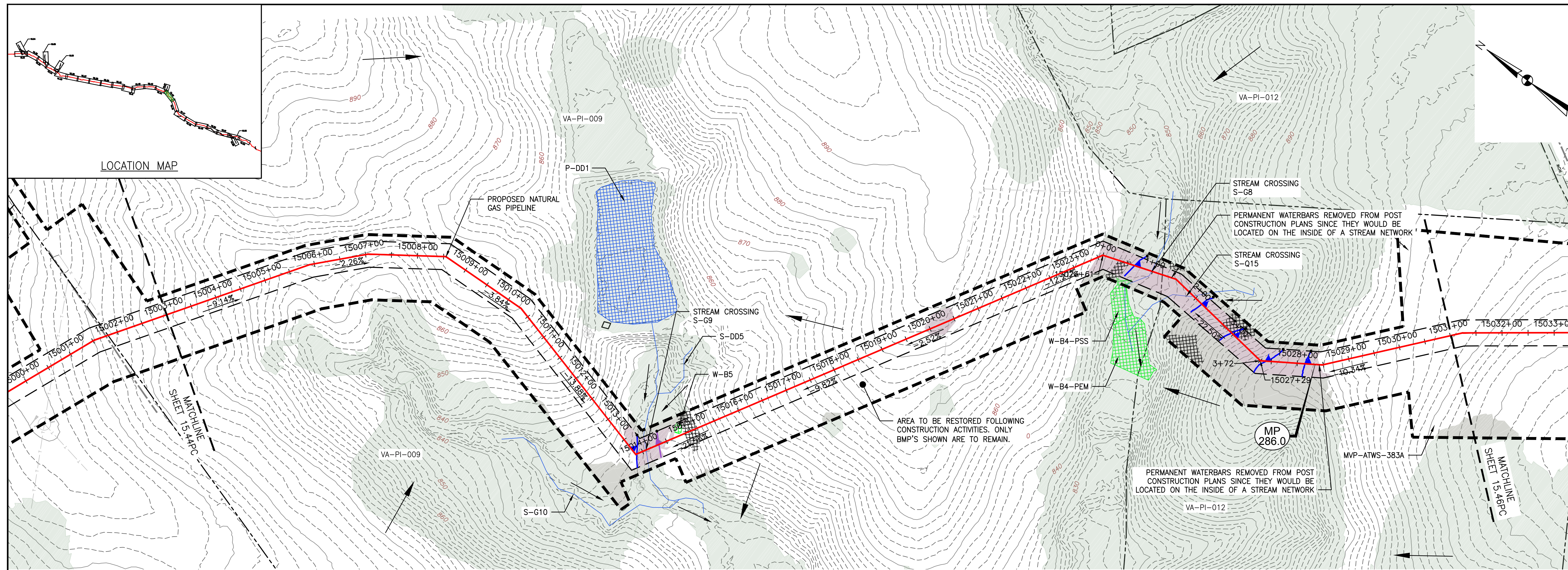
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FOSTER PLAZA 7
PITTSBURGH, PA 15220

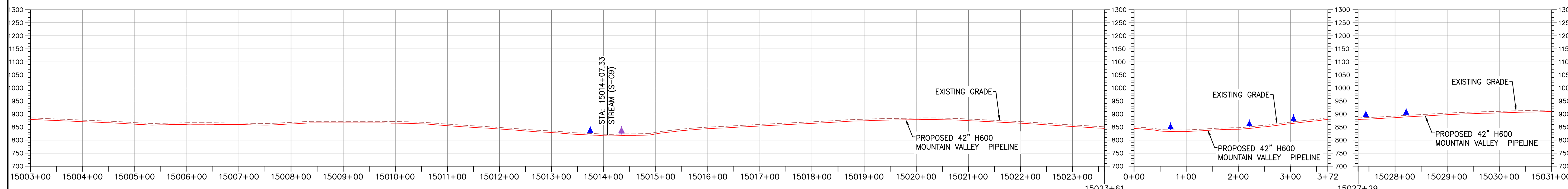
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY: KAL
CHECKED BY: HT
APPROVED BY: RE
DATE: 03/21/2018
SCALE: AS SHOWN
SHT. NO. 15.44PC OF 15.93PC



PLAN
SCALE: 1" = 100'



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

LEGEND

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

NOTES:

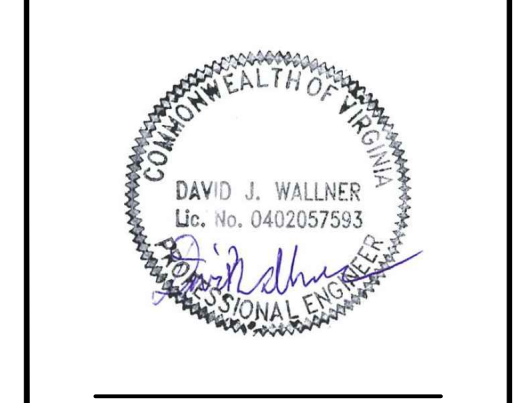
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2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON EITHER END.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

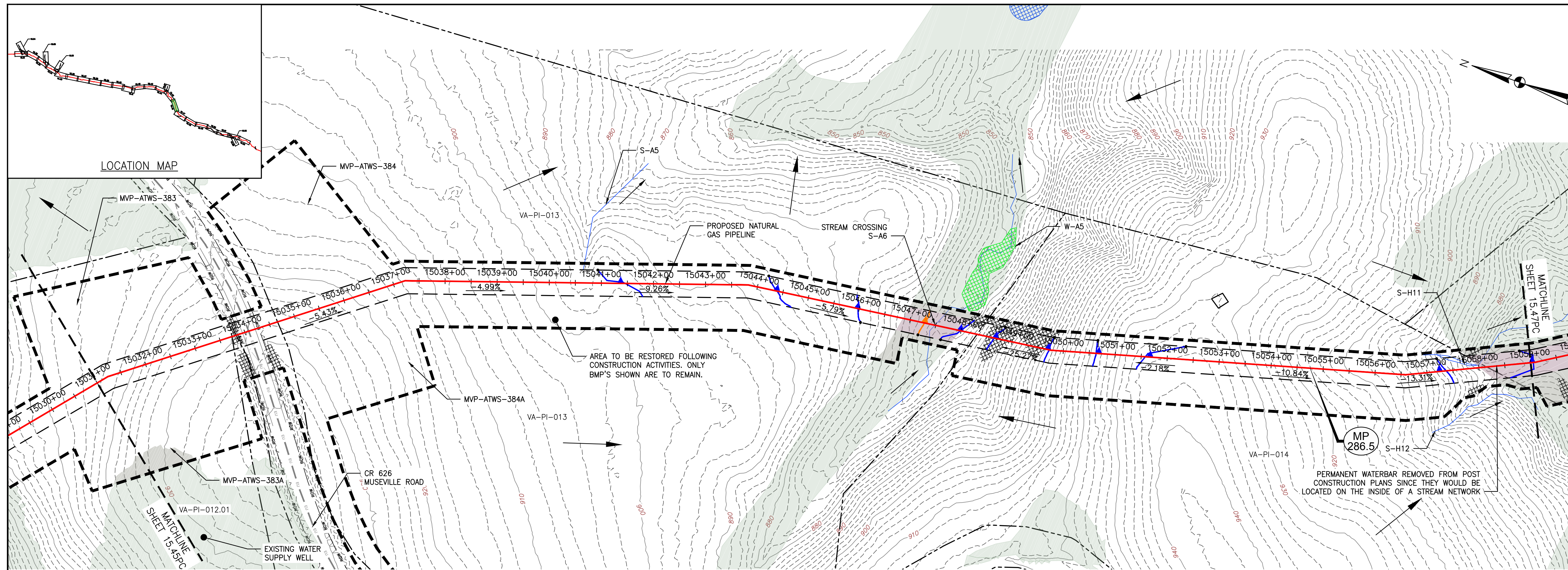
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

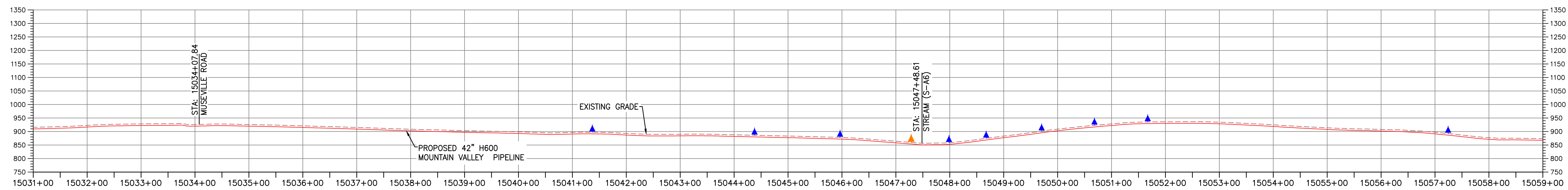
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.45PC OF	15.93PC



PLAN
SCALE: 1" = 100'



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

- LEGEND**
- EXISTING CULVERT
 - STREAM
 - - - EXISTING PROPERTY LINE
 - - - EXISTING STATE LINE
 - - - EXISTING COUNTY LINE
 - - - EXISTING ROAD/TRAIL
 - USDA FOREST SERVICE (NATIONAL FOREST) LANDS
 - APPALACHIAN NATIONAL SCENIC TRAIL
 - ACID FORMING MATERIAL
 - GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
 - - - PROPOSED LIMIT OF DISTURBANCE
 - - - PROPOSED PERMANENT RIGHT OF WAY
 - PROPOSED LEVEL SPREADER DIVERSION
 - PROPOSED LEVEL SPREADER
 - PROPOSED ACCESS ROAD CENTERLINE
 - PROPOSED PIPELINE
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 - POND
 - WETLAND
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 - APPROXIMATE LOCATION OF WATER BAR END TREATMENTS (PENDING FIELD CONDITIONS)
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 - PERMANENT WATER BAR 10' END TREATMENT
 - PERMANENT WATER BAR 15' END TREATMENT
 - PERMANENT WATER BAR 20' END TREATMENT
 - STEEP SLOPE AREA
 - EXISTING FOREST
 - PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
 - TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

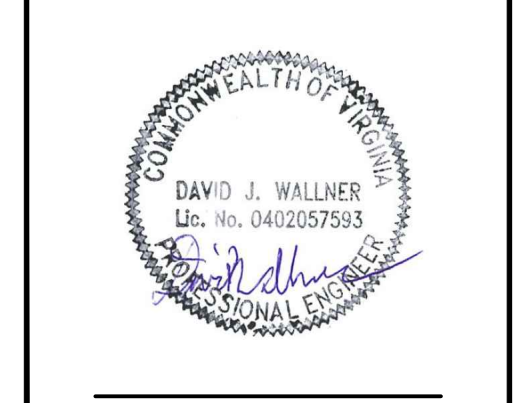
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4	03/04/18	KAL		ADDRESS VABEQ COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL		ADDRESS VABEQ COMMENTS
1	09/11/17	KAL		PLAN SUBMISSION

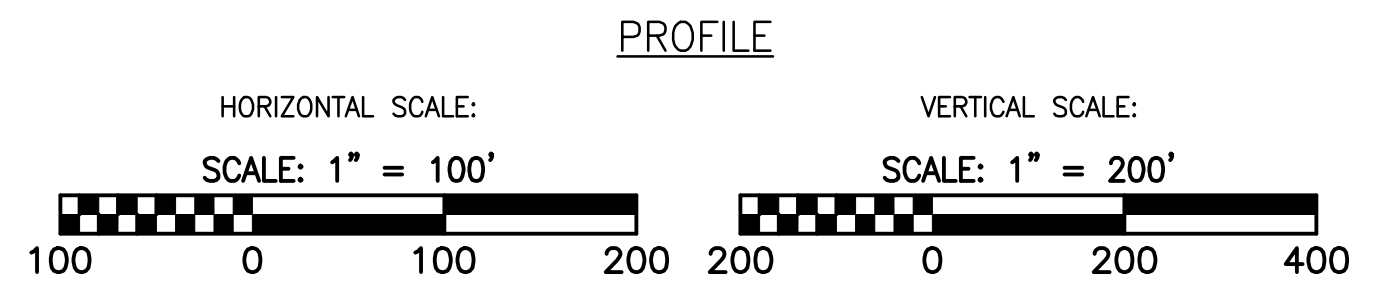
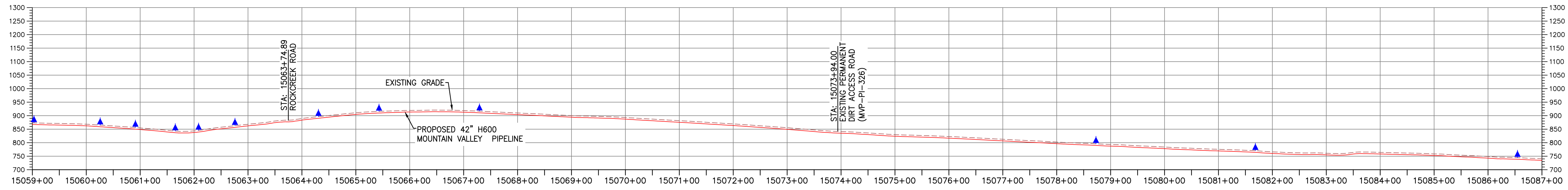
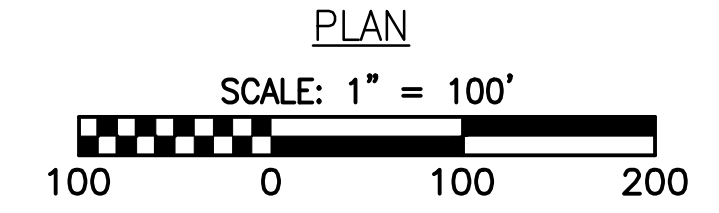
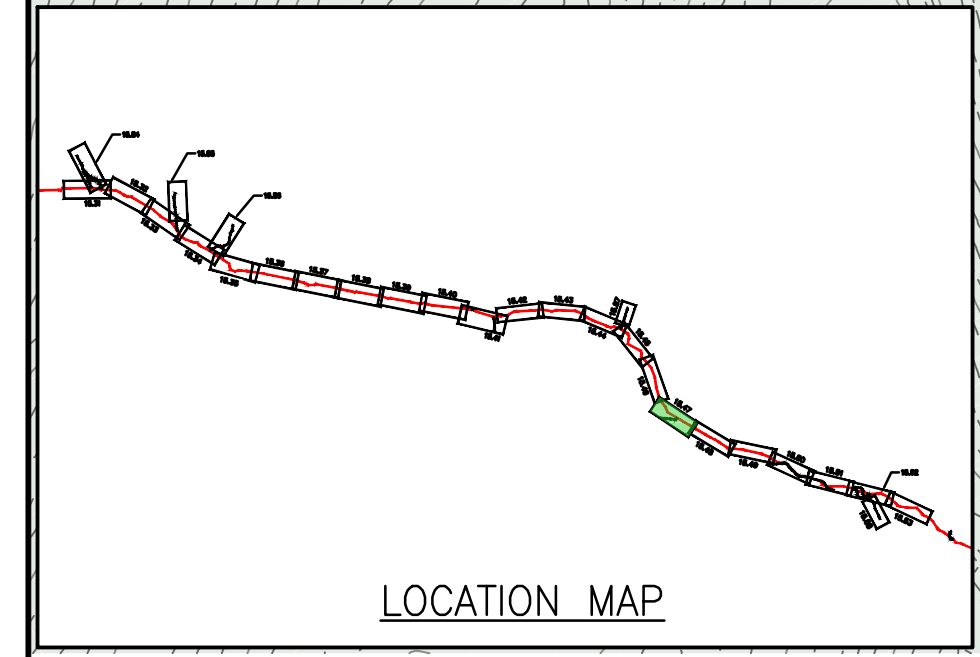
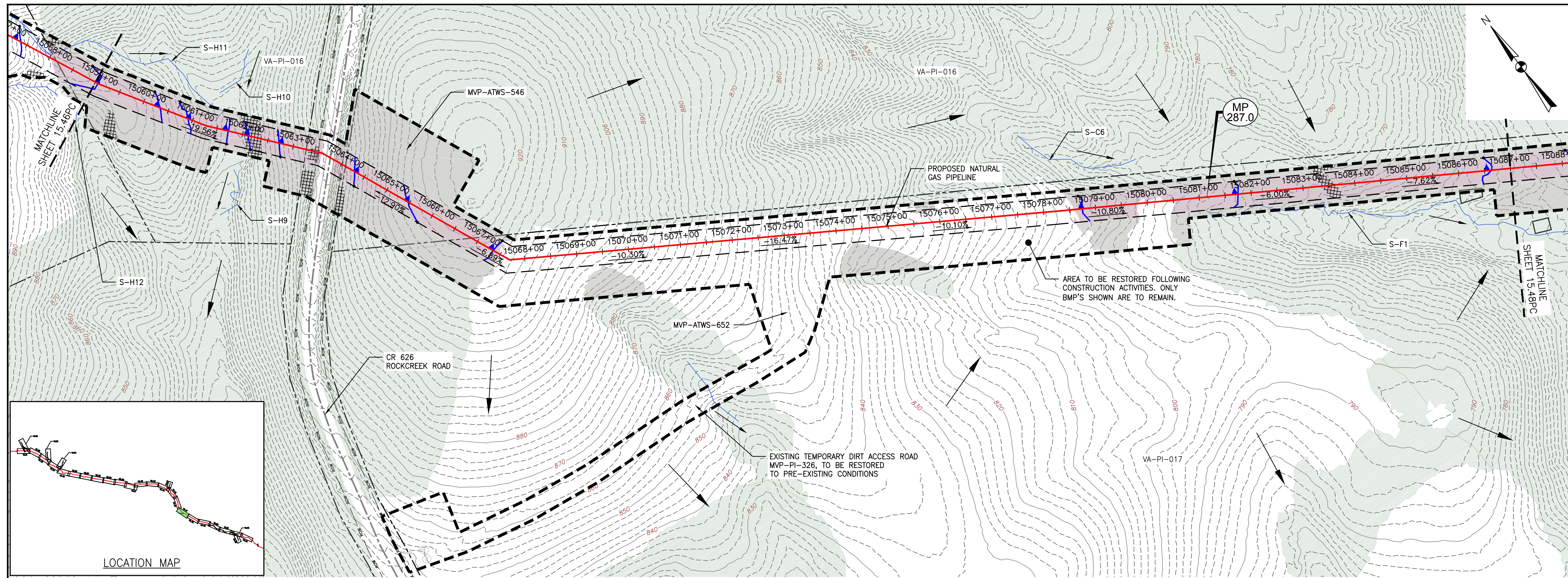
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.46PC OF	15.93PC



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

- NOTES:**
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4	03/04/18	KAL	RE	ADDRESS VABEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VABEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

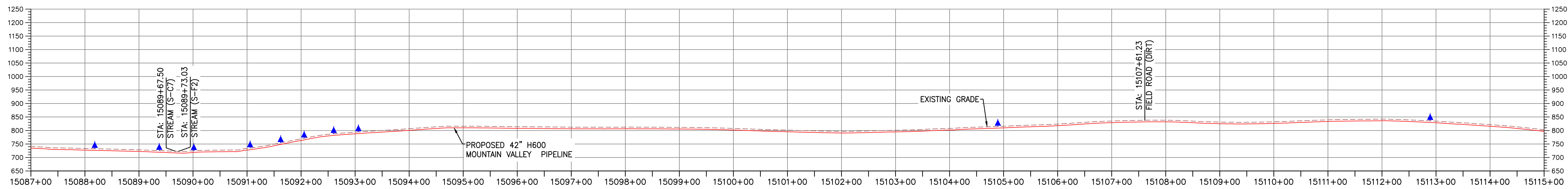
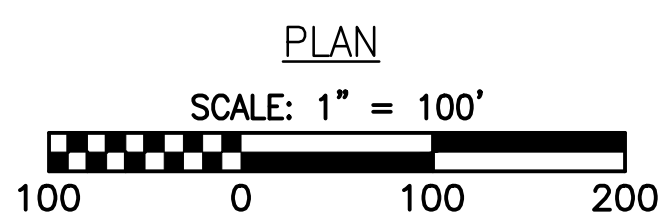
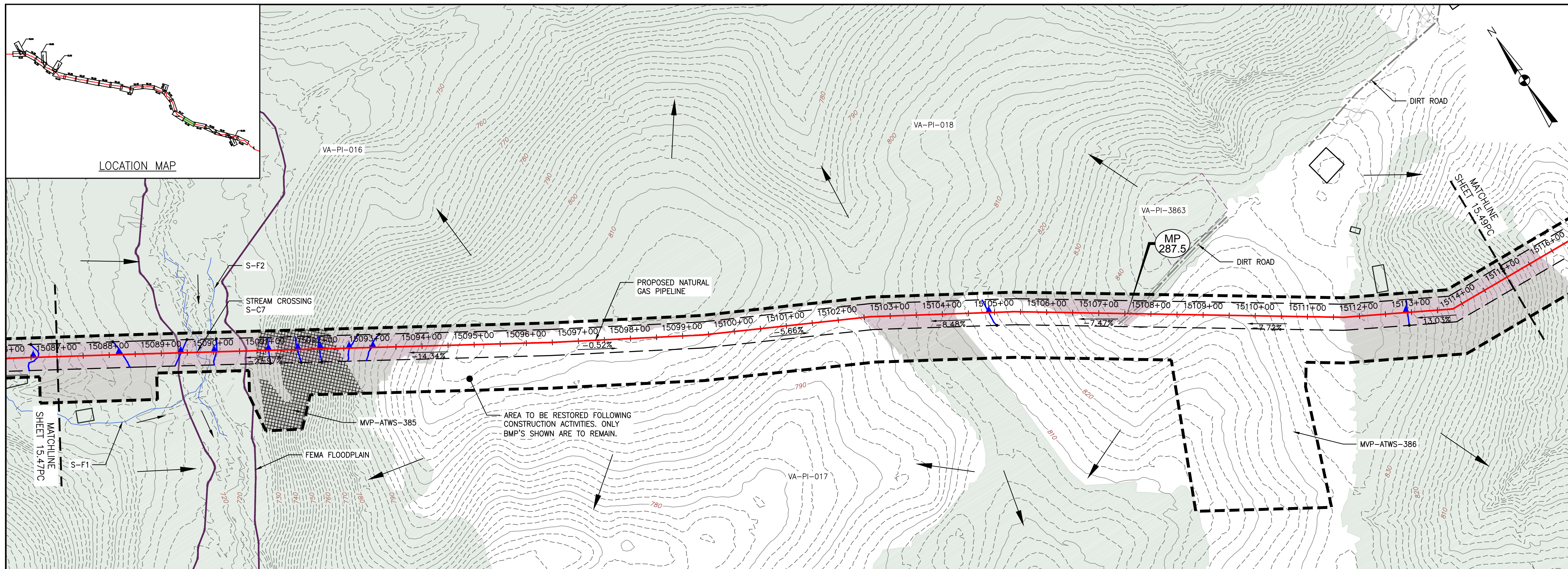
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 PITTSBURGH, PA 15220

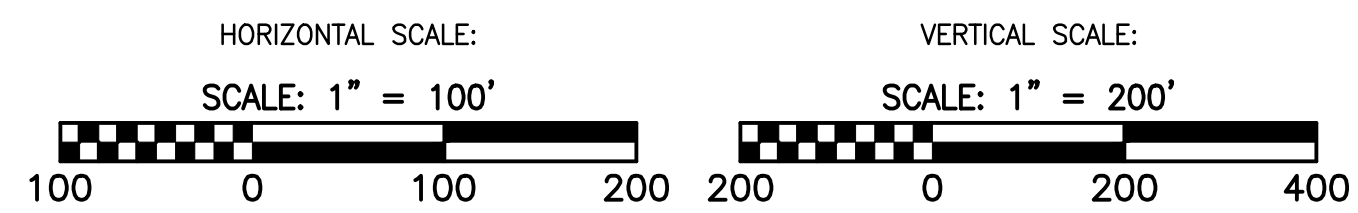
POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.47PC OF 15.93PC



PROFILE



LEGEND

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

- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- PERMANENT WATER BAR 10' END TREATMENT
- PERMANENT WATER BAR 15' END TREATMENT
- PERMANENT WATER BAR 20' END TREATMENT

- STEEP SLOPE AREA
- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

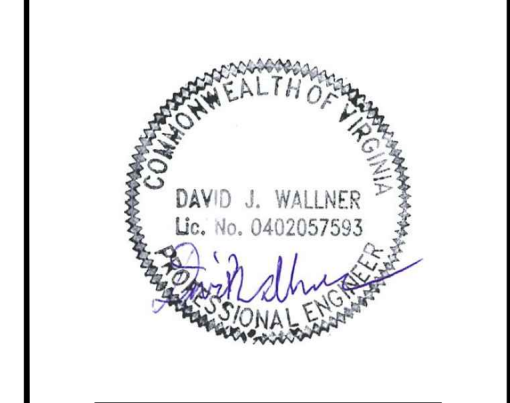
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NO.	DATE	CHKD.	DWN.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	RE	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	RE	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	RE	PLAN SUBMISSION

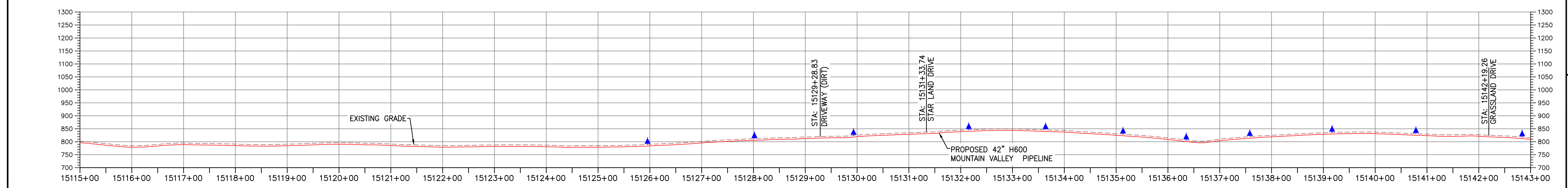
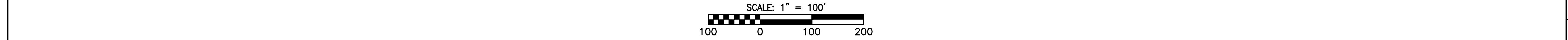
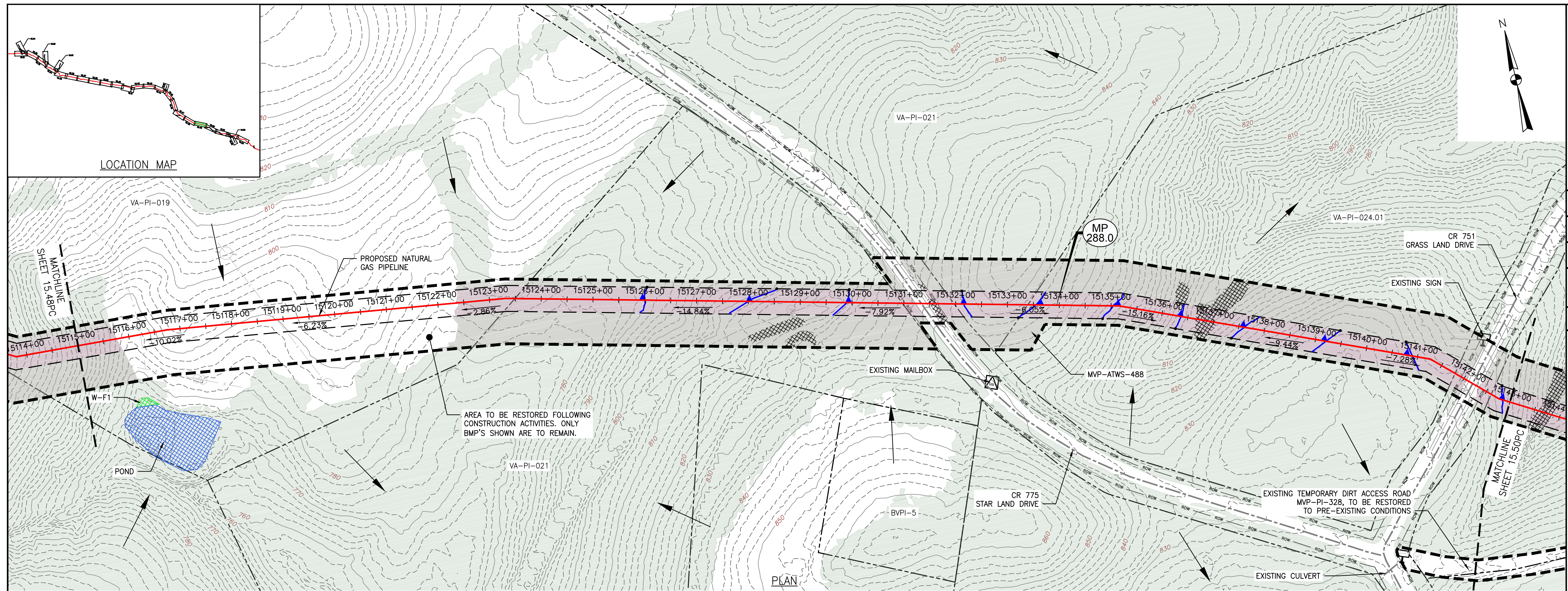
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.48PC OF	15.93PC



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

NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADED COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADED COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADED COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADED COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

REVISIONS:

Mountain Valley Pipeline
 POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
 MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

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

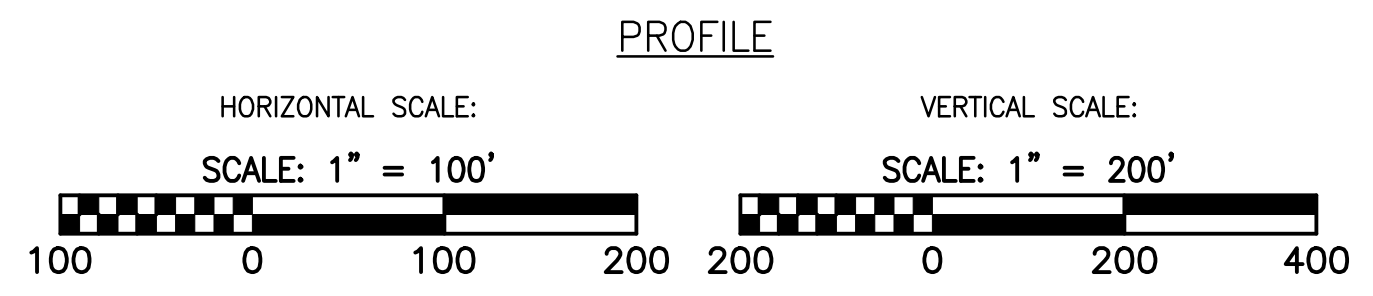
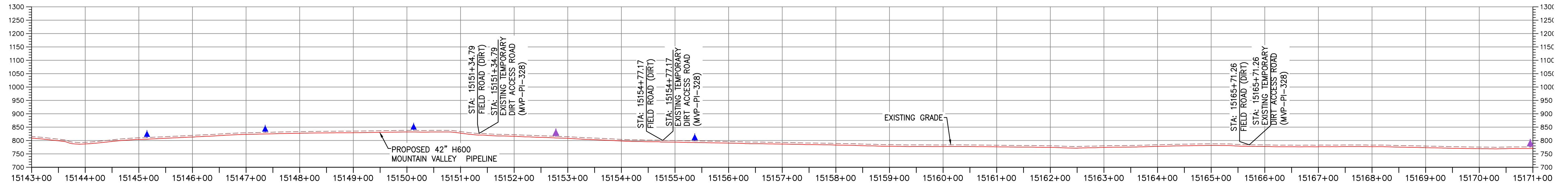
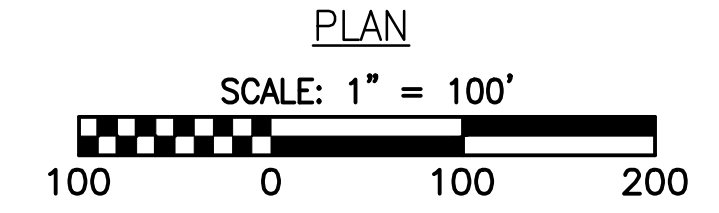
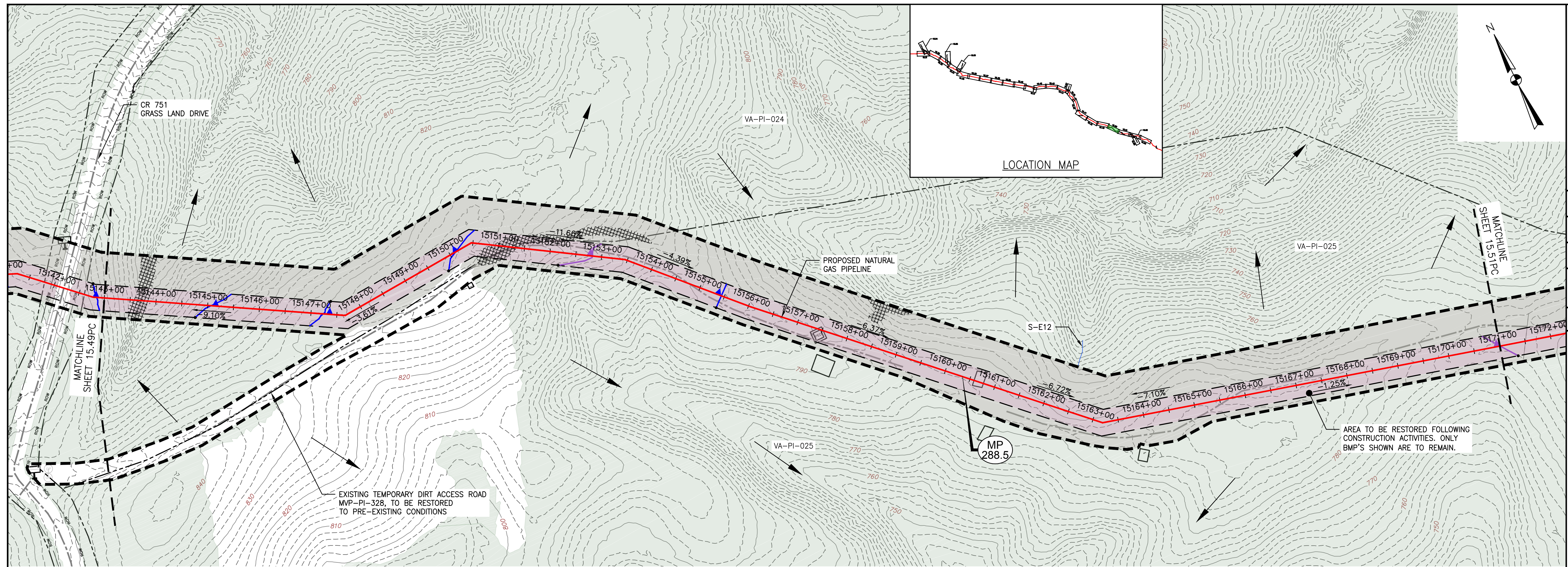
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.49PC OF 15.93PC



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

NOTES:

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

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	DW	ADDRESS VABEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VABEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VABEQ COMMENTS
3	02/20/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VABEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

REVISIONS:

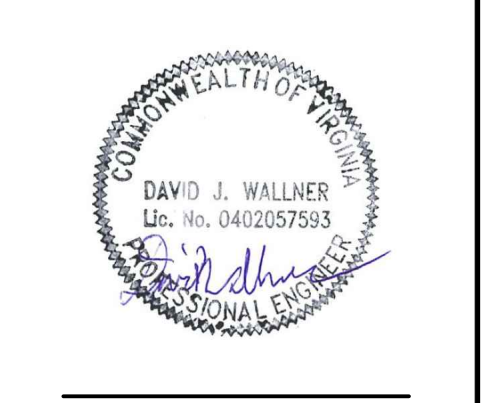
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

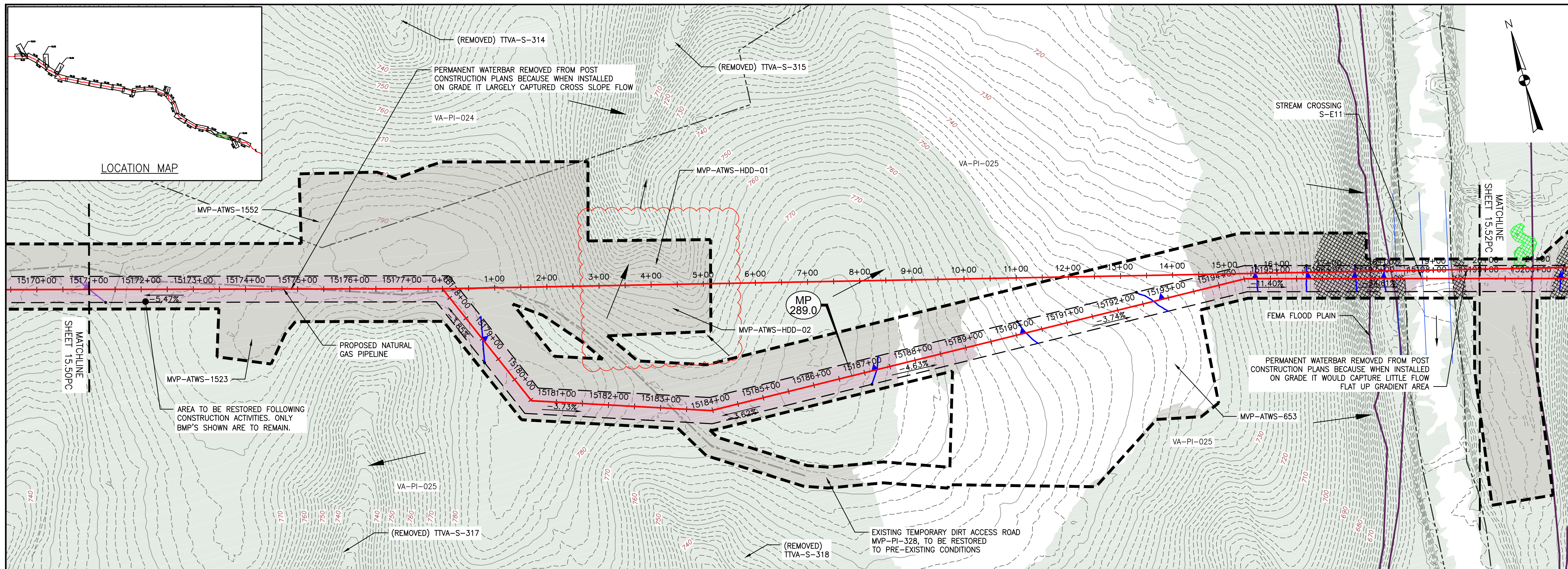
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

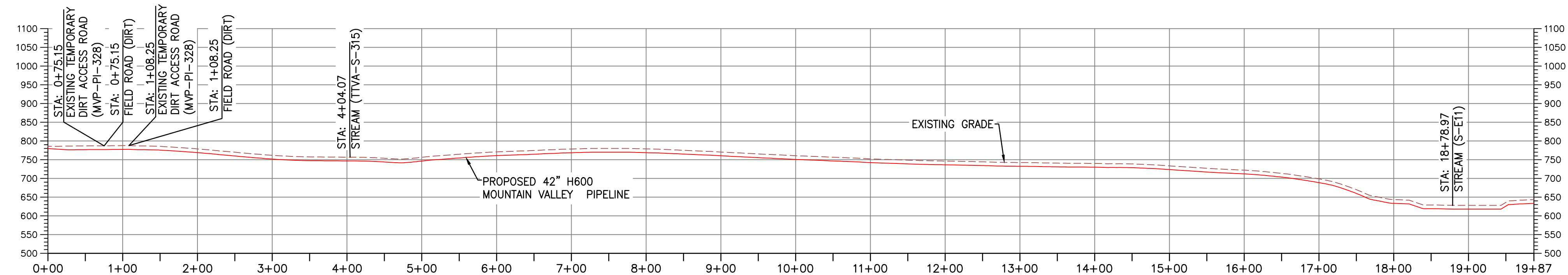
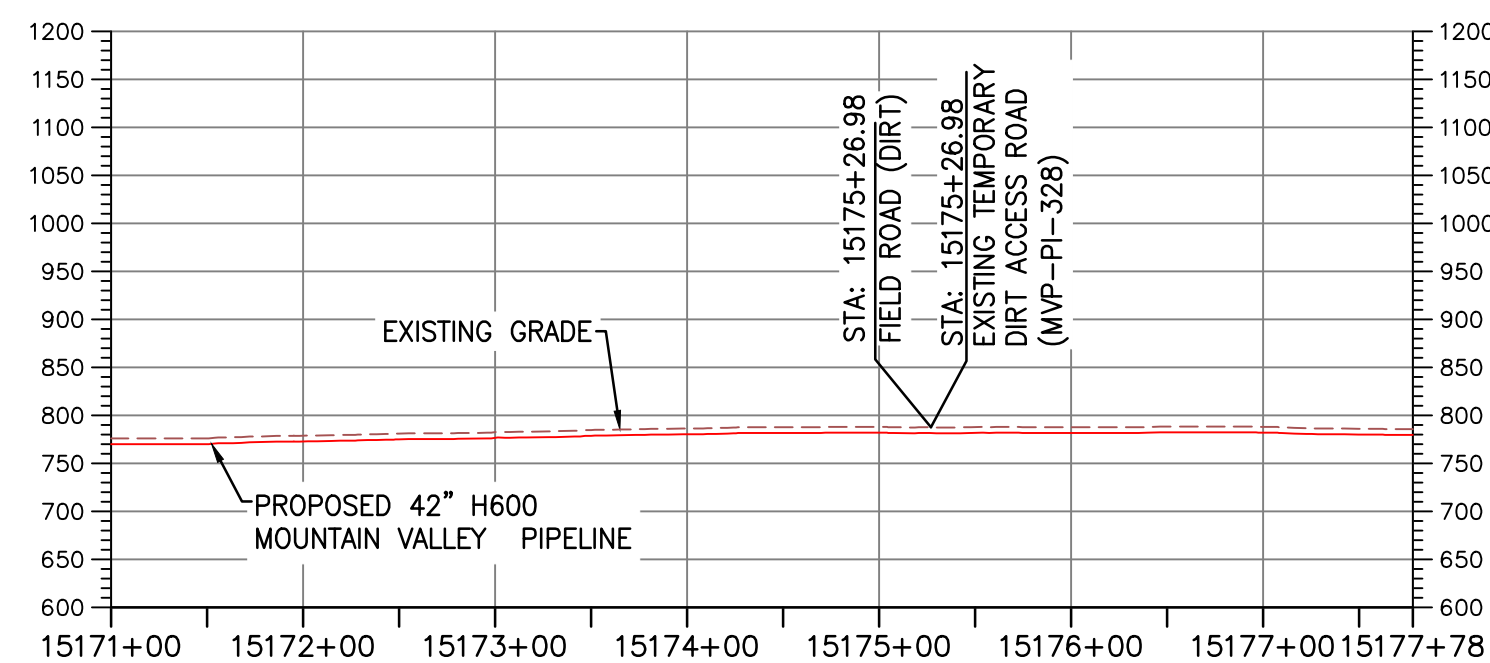


DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.50PC OF	15.93PC



PLAN

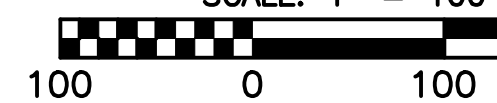
SCALE: 1" = 100'



PROFILE

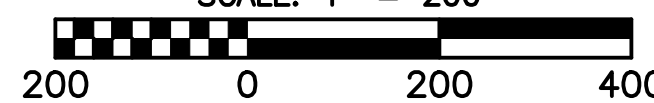
HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

- STREAM FLOW DIRECTION
- FEMA 100 YEAR FLOODPLAIN
- PERMANENT WATER BAR 10' END TREATMENT
- PERMANENT WATER BAR 15' END TREATMENT
- PERMANENT WATER BAR 20' END TREATMENT

- STEEP SLOPE AREA
- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
9	10/04/18	JWK	RE	FIELD MODIFICATION
8	07/20/18	KAL	DW	FIELD MODIFICATION
7	04/30/18	KAL	DW	FIELD MODIFICATION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS

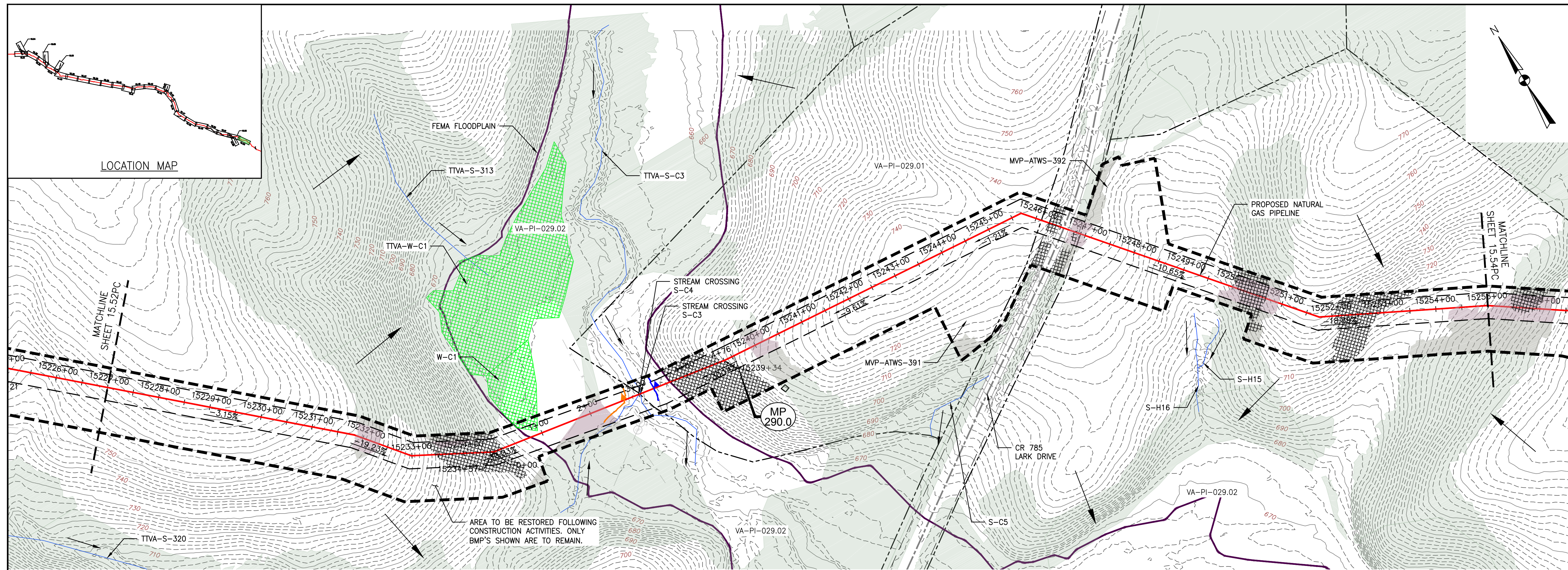
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

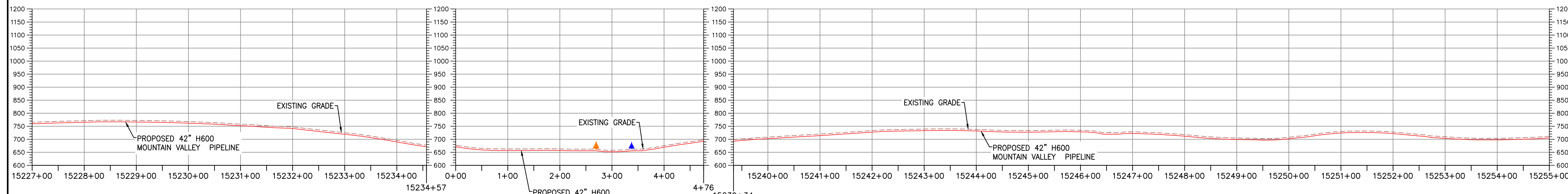
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: JWK
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 10/04/2018
 SCALE: AS SHOWN
 SHT. NO. 15.51PC OF 15.93PC



PLAN

SCALE: 1" = 100'



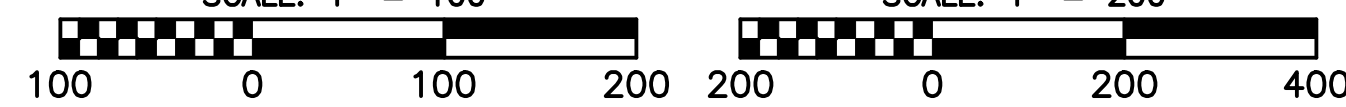
PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'

VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

NOTES:

1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADED COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADED COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADED COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADED COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

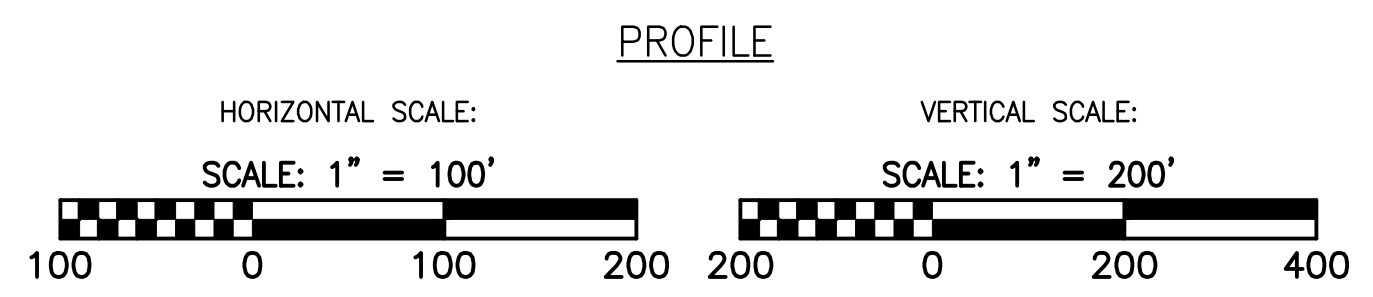
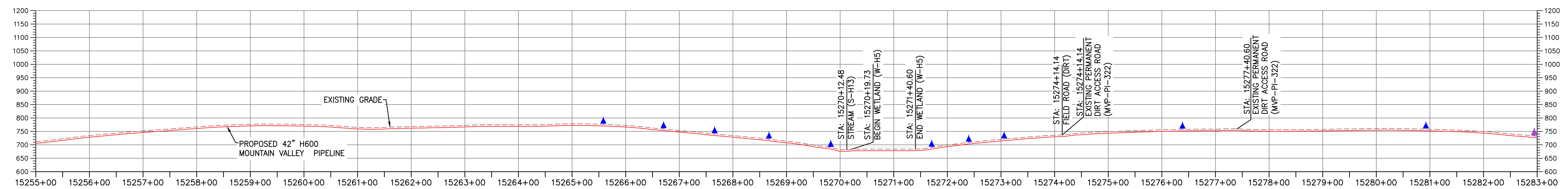
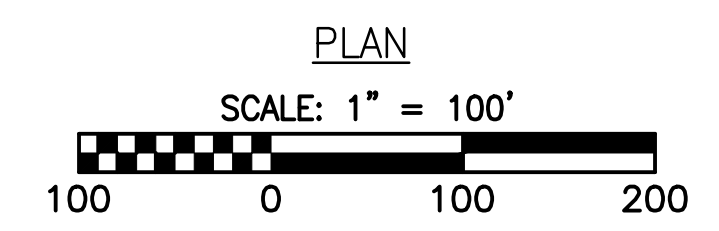
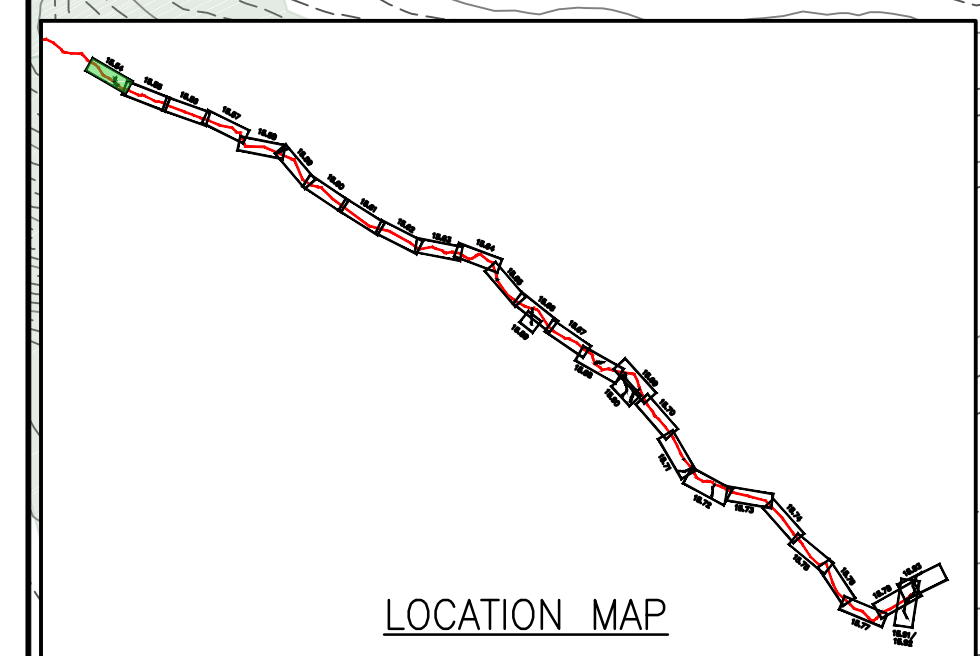
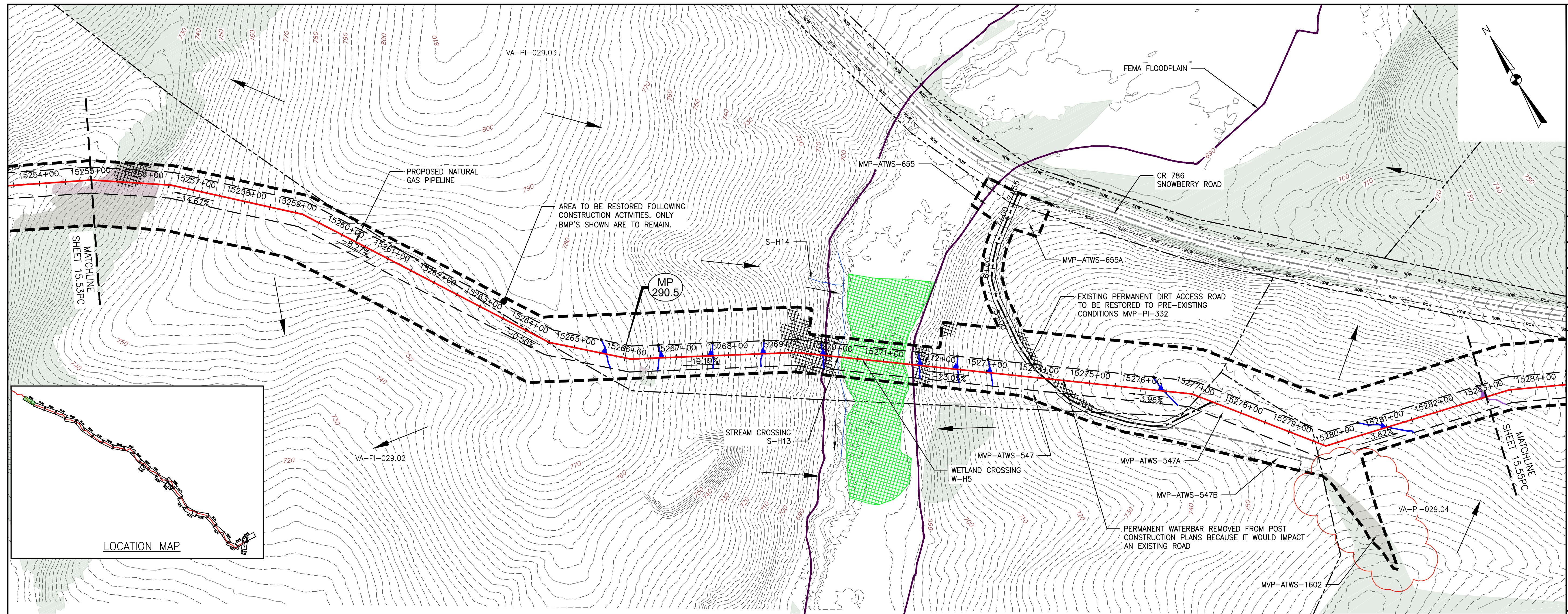
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.53PC OF	15.93PC



LEGEND

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

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

NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
7	12/14/18	JWK	RE	FIELD MODIFICATIONS
6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADEQ COMMENTS

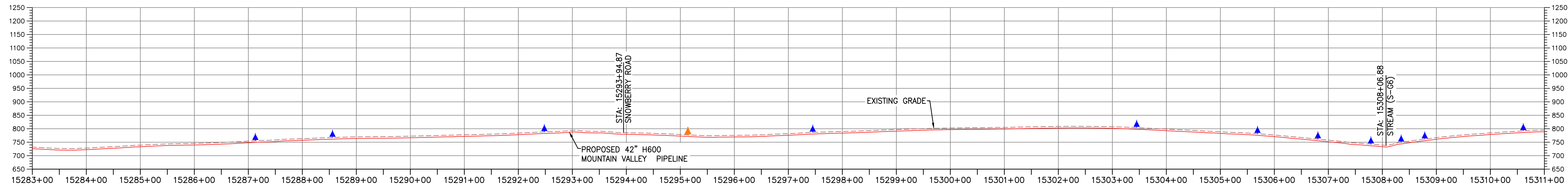
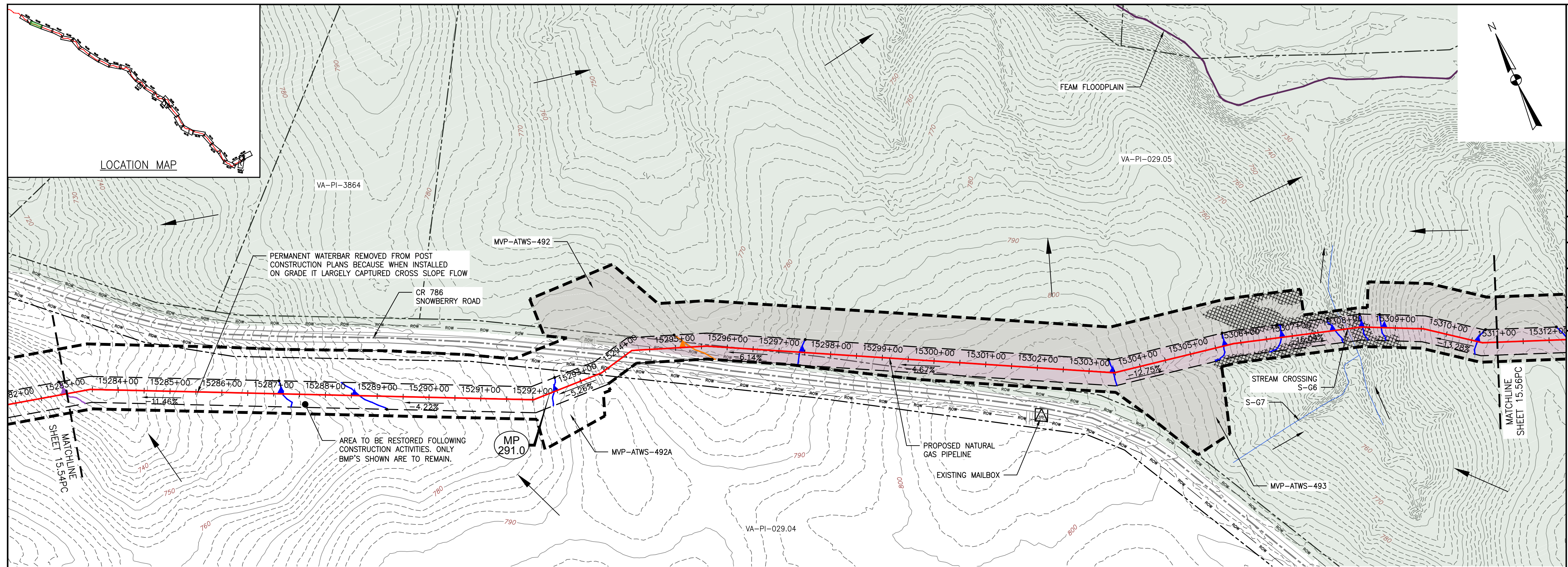
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 2200 ENERGY DRIVE
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: JWK
 CHECKED BY: RE
 APPROVED BY: DW
 DATE: 12/14/2018
 SCALE: AS SHOWN
 SHT. NO. 15.54PC OF 15.93PC



LEGEND

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

NOTES:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

REVISIONS:

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

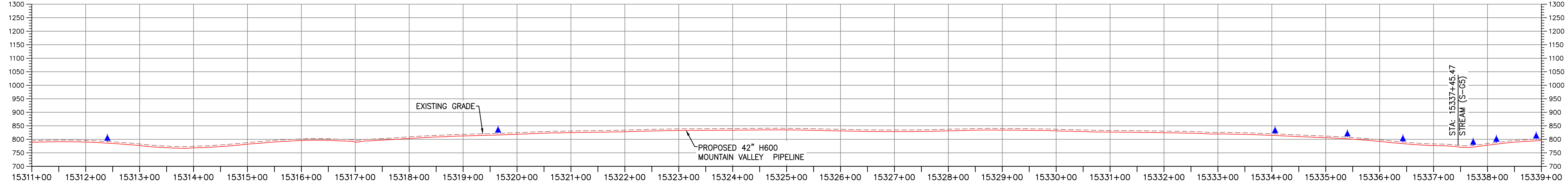
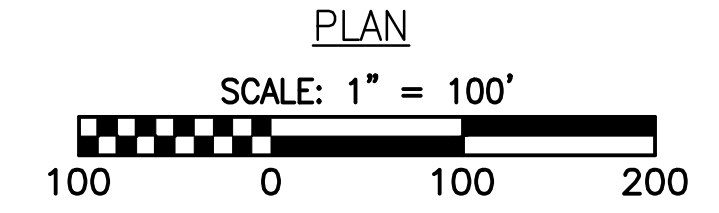
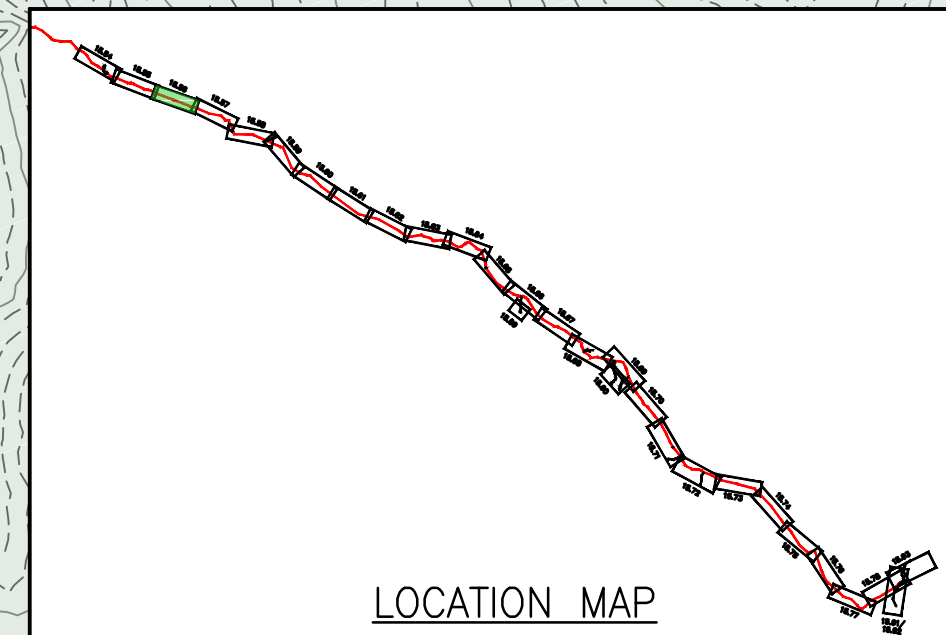
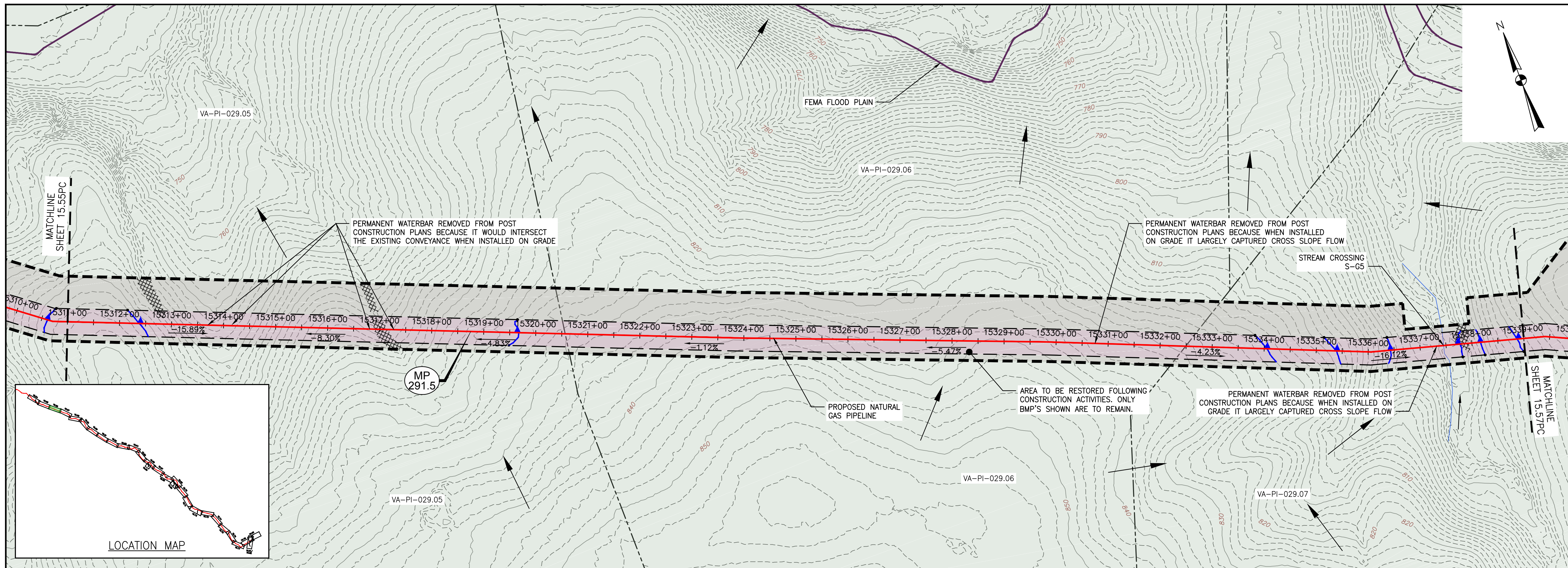
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POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS

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

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.55PC OF 15.93PC



LEGEND

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

NOTES:

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NO.	DATE	CHKD.	DWN.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

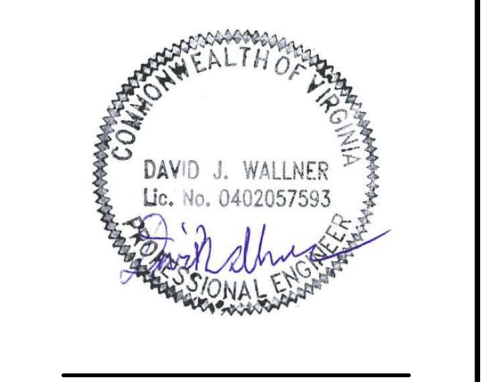
REVISIONS:

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

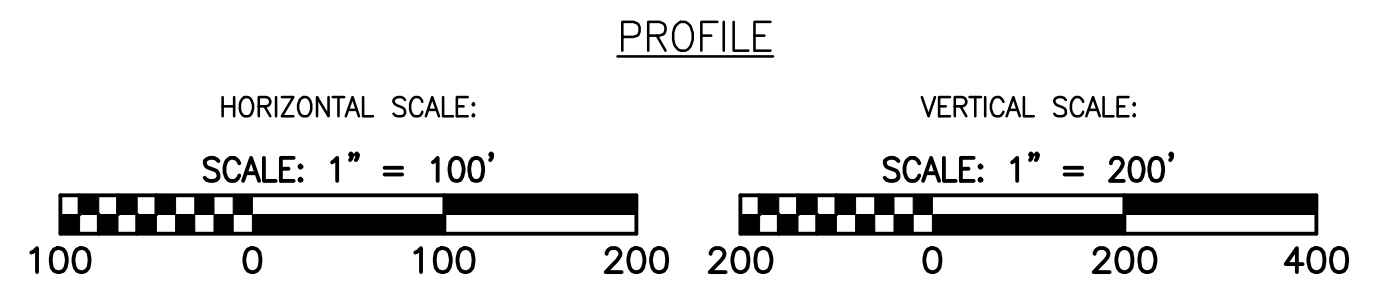
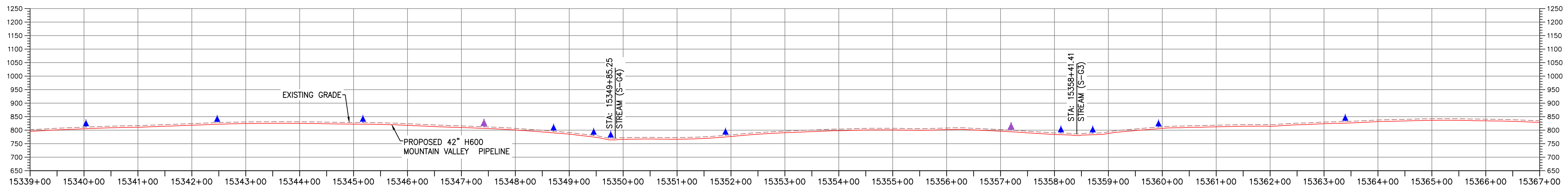
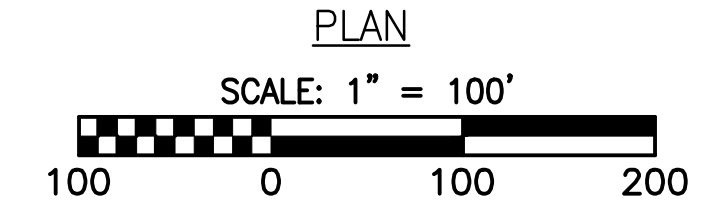
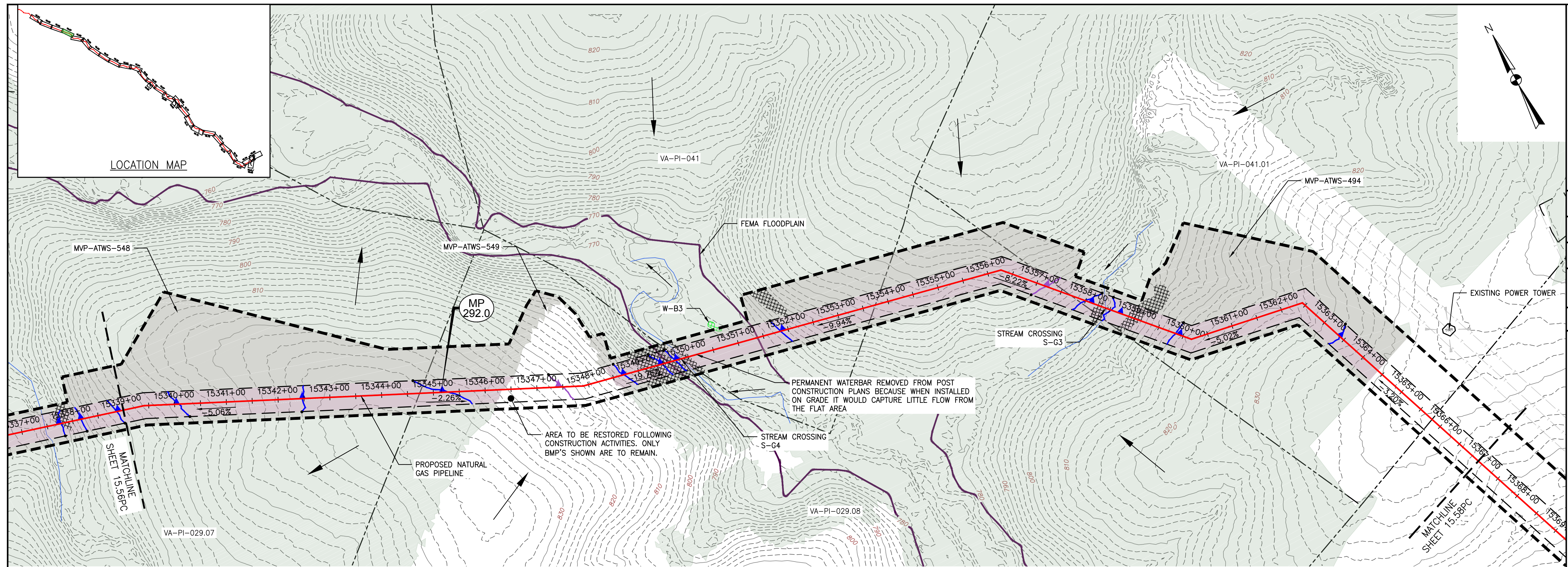
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.56PC OF	15.93PC



LEGEND

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

— STEEP SLOPE AREA
— EXISTING FOREST
— PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
— TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

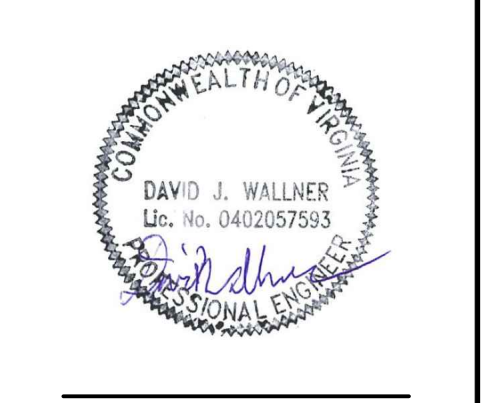
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		ADDRESS VADEQ COMMENTS
5	03/16/18	KAL		ADDRESS VADEQ COMMENTS
4	03/04/18	KAL		ADDRESS VADEQ COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL		ADDRESS VADEQ COMMENTS
1	09/11/17	KAL		PLAN SUBMISSION

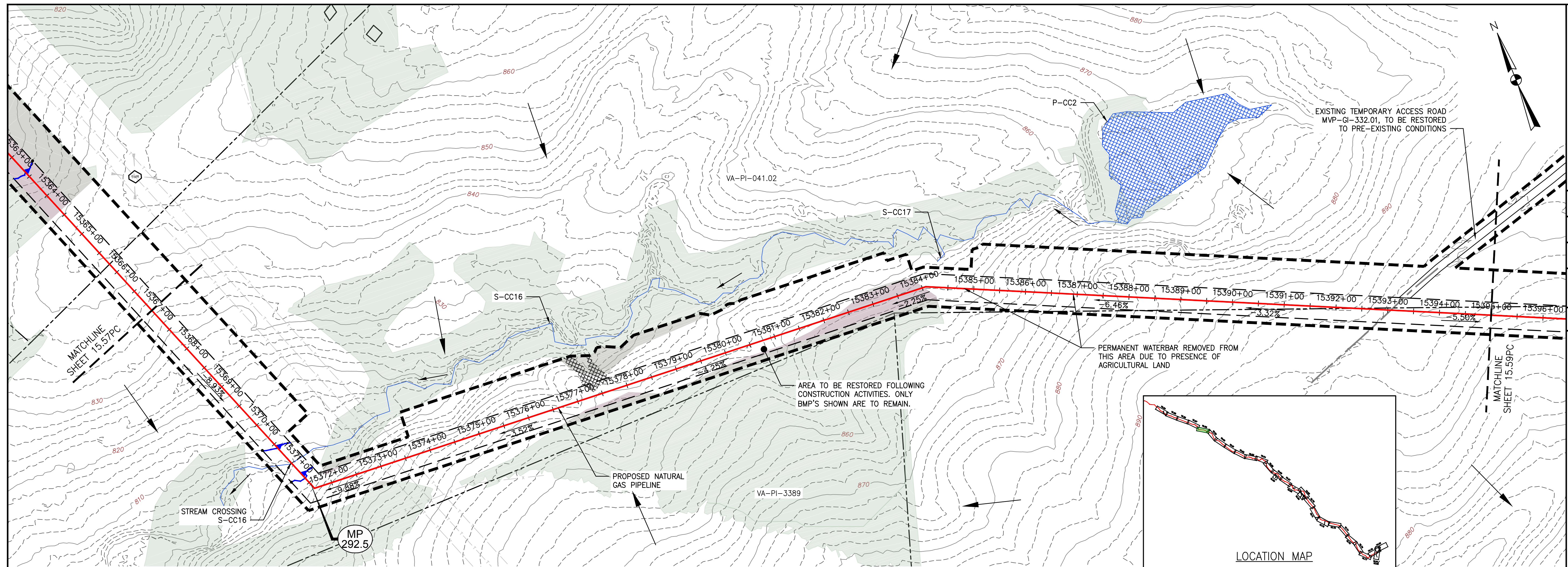
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

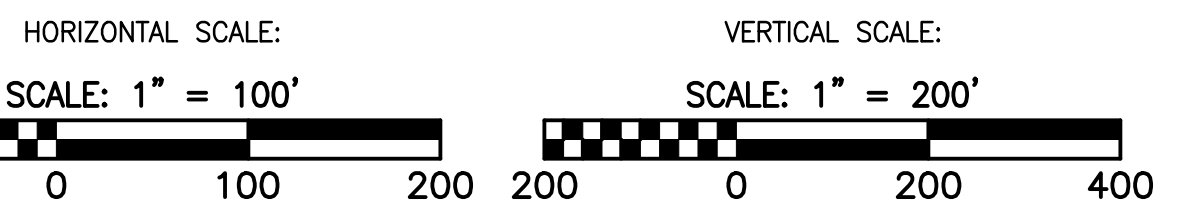
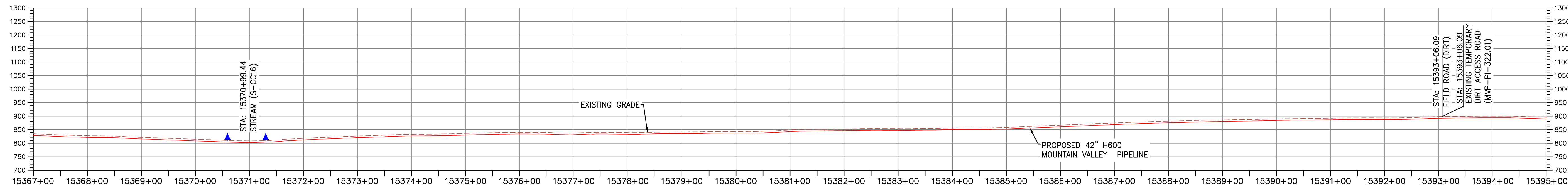
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.57PC OF	15.93PC



PLAN



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

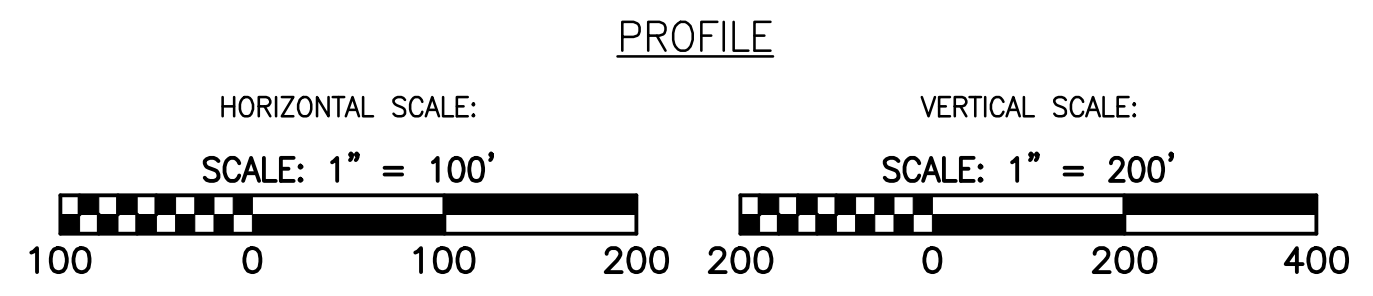
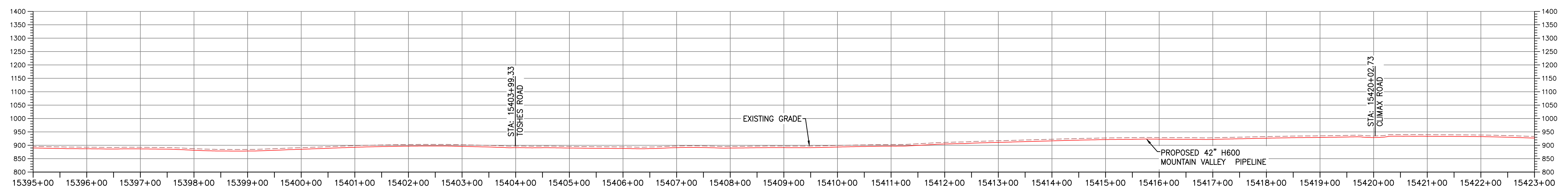
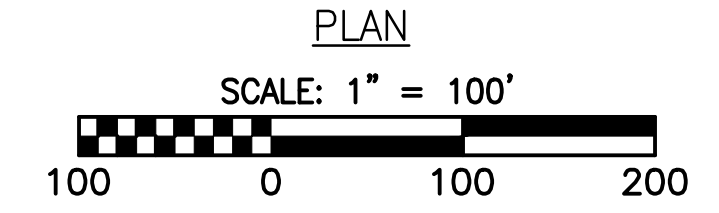
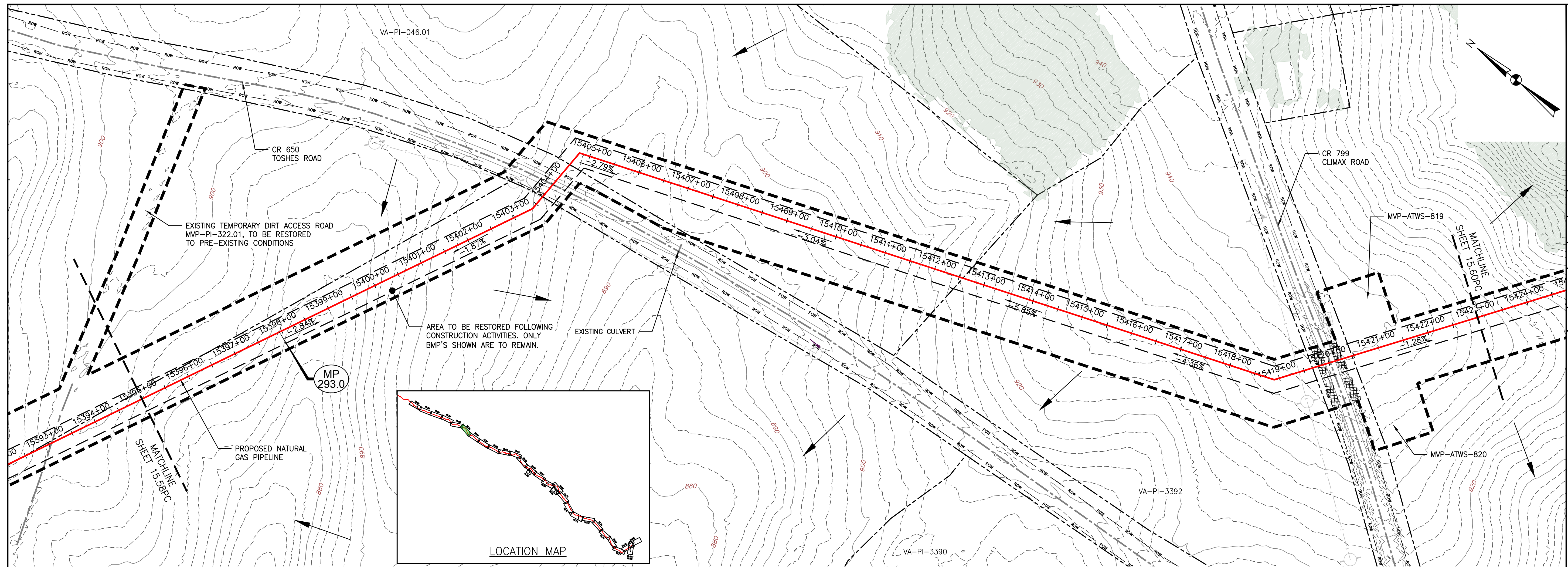
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 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.58PC OF	15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADED COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADED COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADED COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADED COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

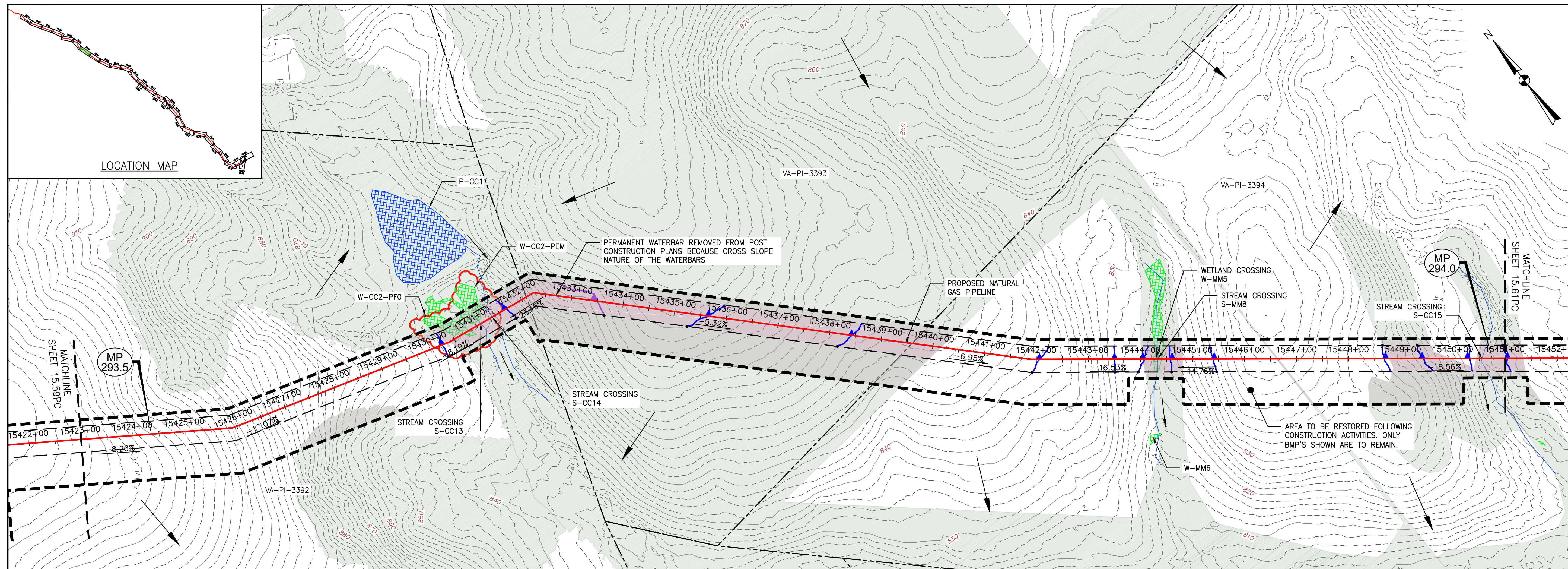
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

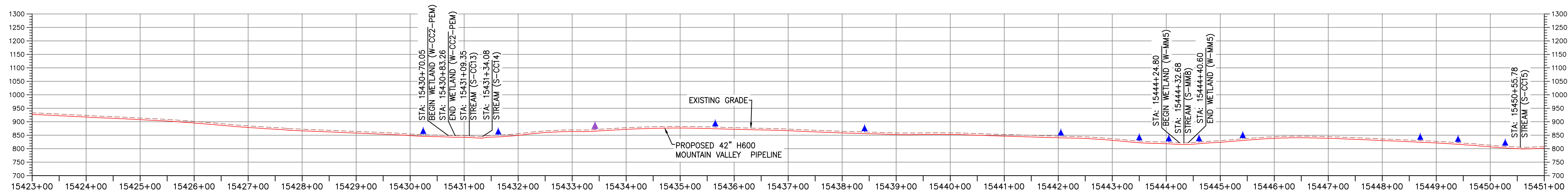
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.59PC OF 15.93PC



PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

NOTES:

1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	06/24/20	JK		CHANGES TO AQUATIC RESOURCES DELINEATIONS
2	03/21/18	JMK		ADDRESS VADEQ COMMENTS
3	03/16/18	KAL		ADDRESS VADEQ COMMENTS
4	03/04/18	KAL		ADDRESS VADEQ COMMENTS
5	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
6	02/20/18	KAL		ADDRESS VADEQ COMMENTS

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

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

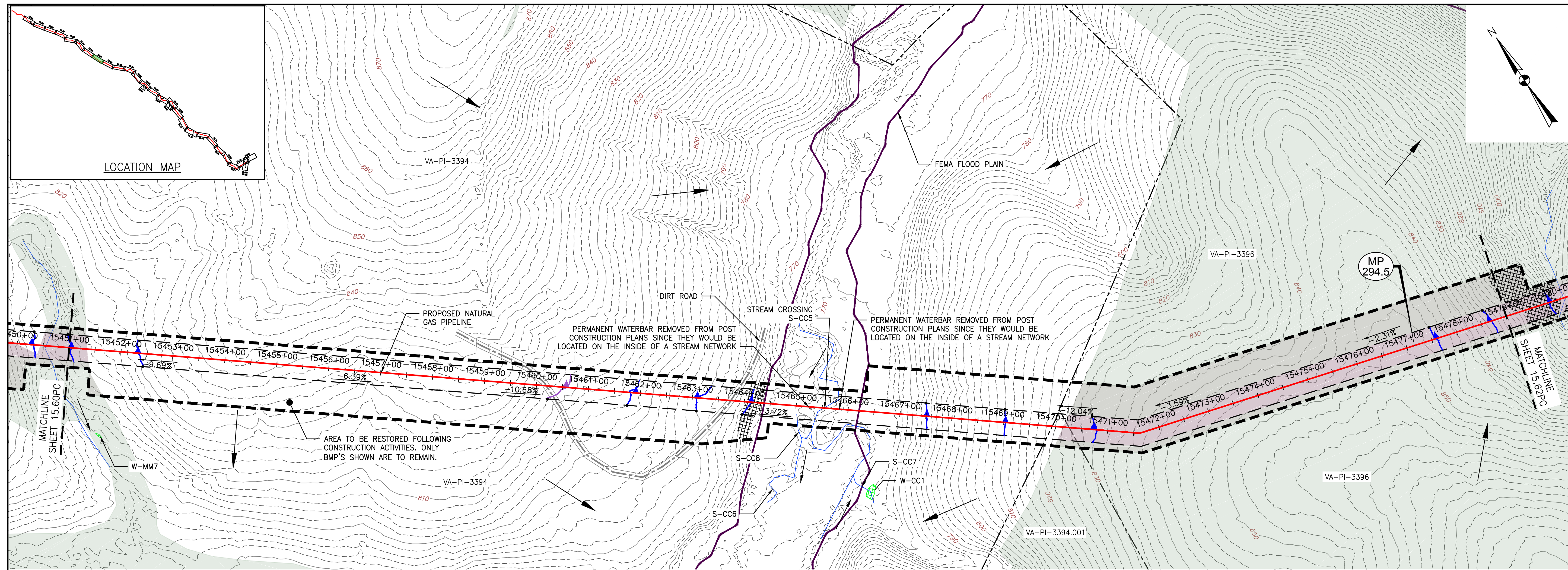
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

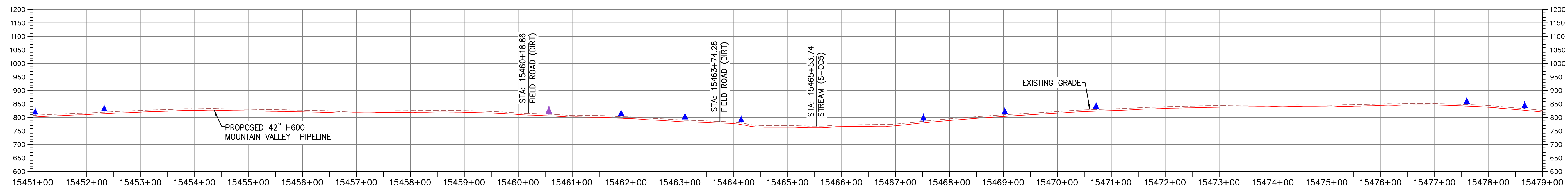
COMMONWEALTH OF PENNSYLVANIA
DAVID J. WALLNER
Lic. No. 0402057593
Professional Engineer

DRAWN BY: JK
CHECKED BY: RE
APPROVED BY: DW
DATE: 06/24/2020
SCALE: AS SHOWN
SHT. NO. 15.60PC OF 15.93PC



PLAN

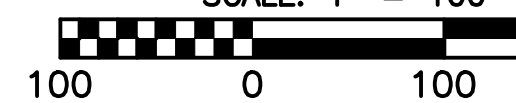
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PROFILE

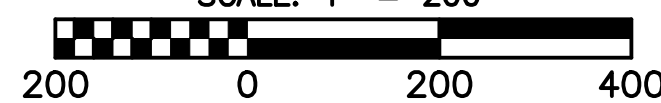
HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

NOTES:

1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		ADDRESS VADEQ COMMENTS
5	03/16/18	KAL		ADDRESS VADEQ COMMENTS
4	03/04/18	KAL		ADDRESS VADEQ COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL		ADDRESS VADEQ COMMENTS
1	09/11/17	KAL		PLAN SUBMISSION

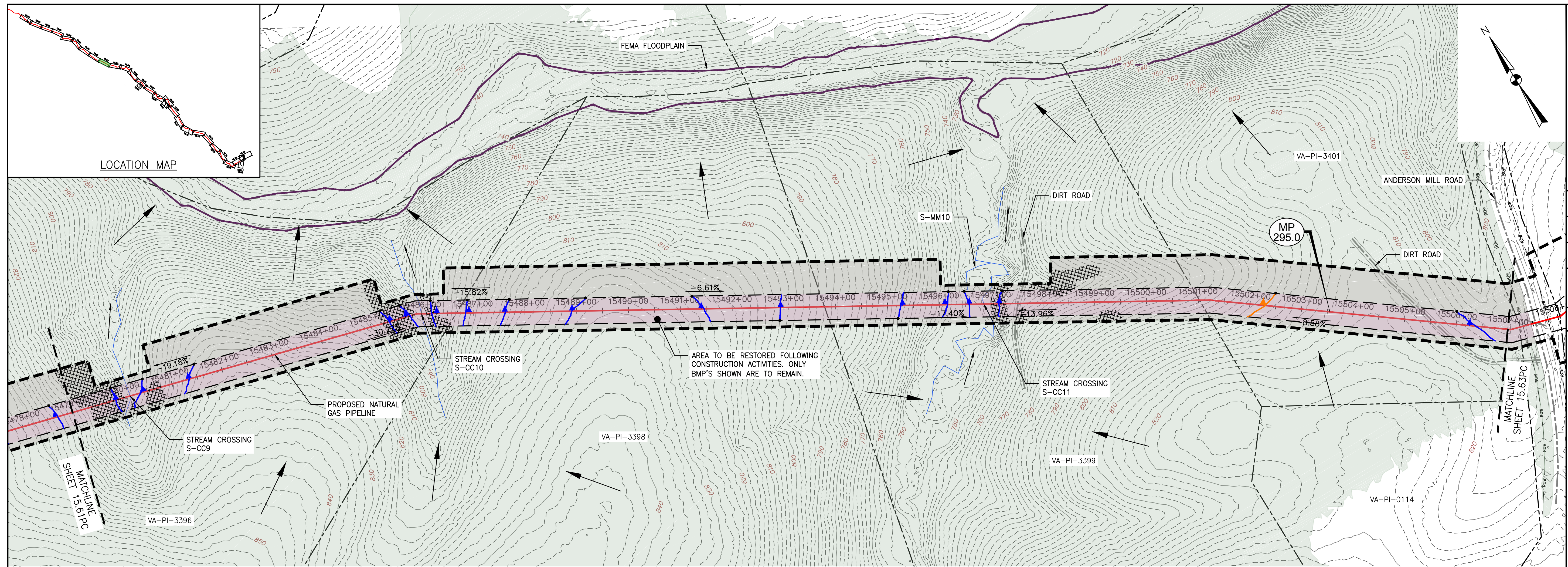
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS

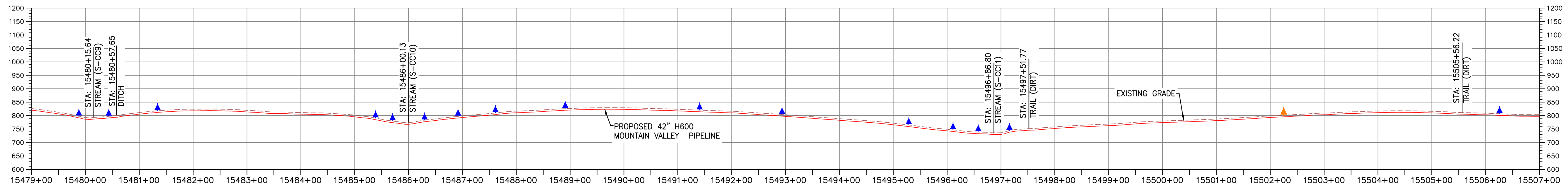
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.61PC OF	15.93PC



PLAN

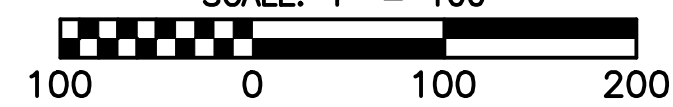
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PROFILE

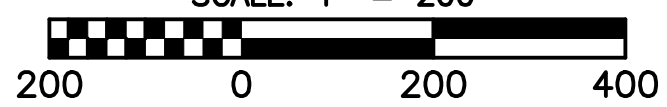
HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

NOTES:

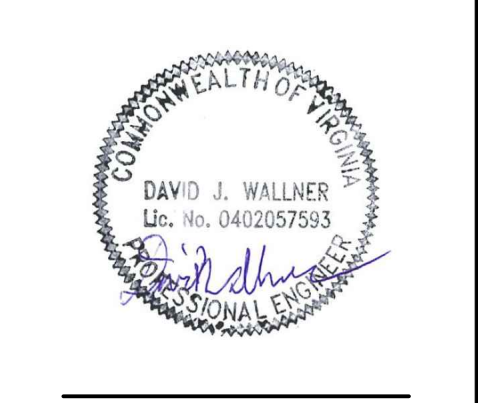
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- IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON EITHER END.

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADQC COMMENTS
5	03/16/18	DW	RE	ADDRESS VADQC COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADQC COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADQC COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

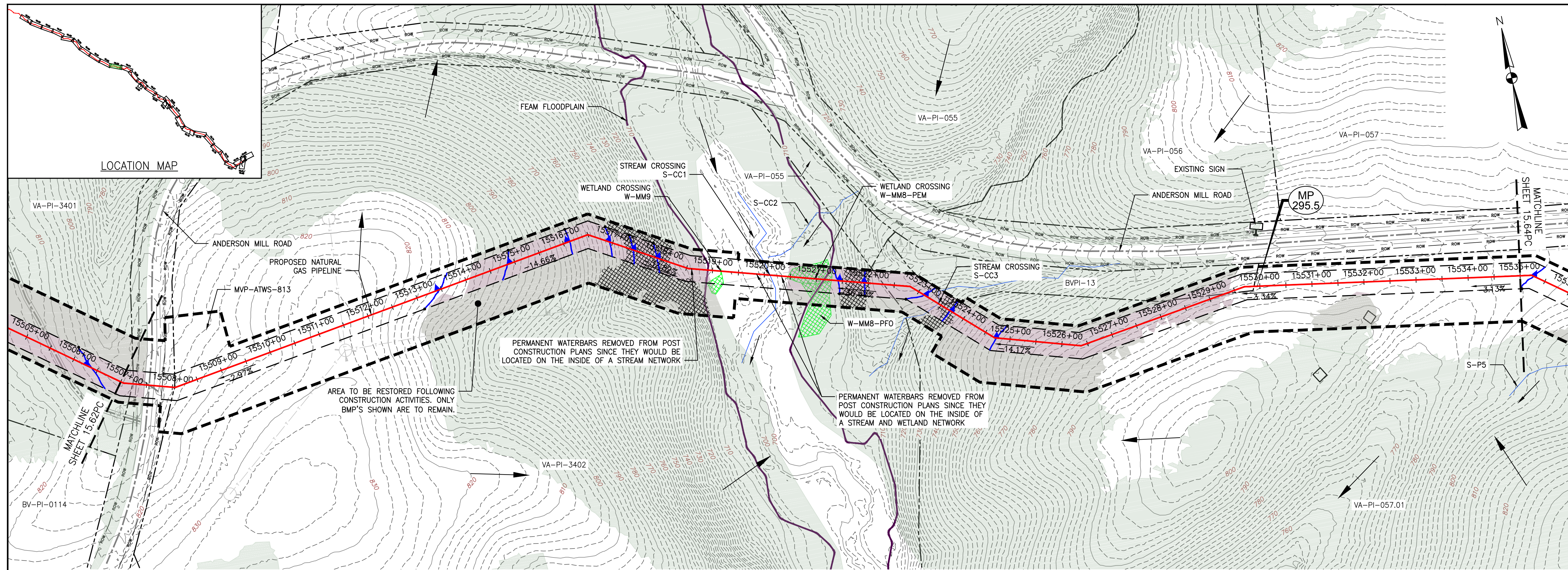
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

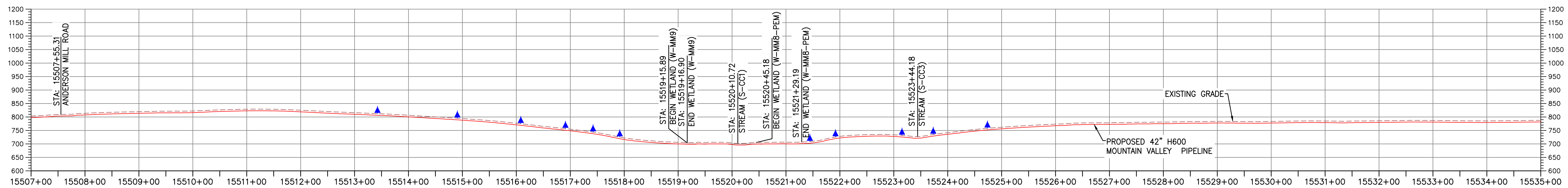


DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.62PC OF	15.93PC



PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

NOTES:

1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	PLAN SUBMISSION
5	03/16/18	KAL	RE	ADDRESS VAEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VAEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VAEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

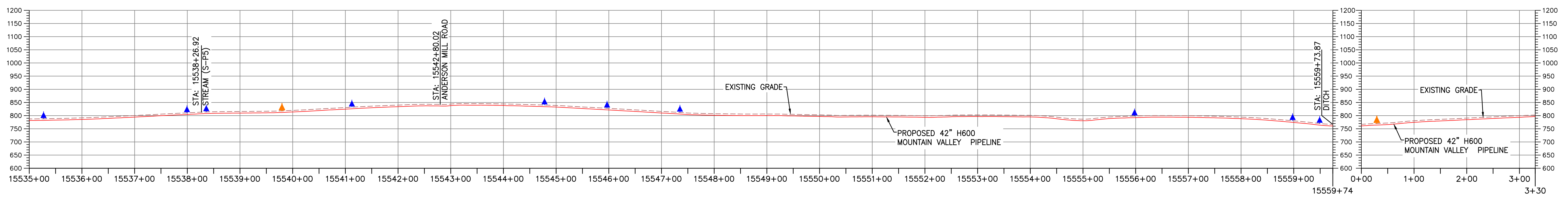
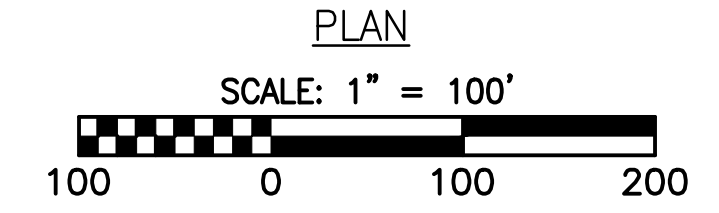
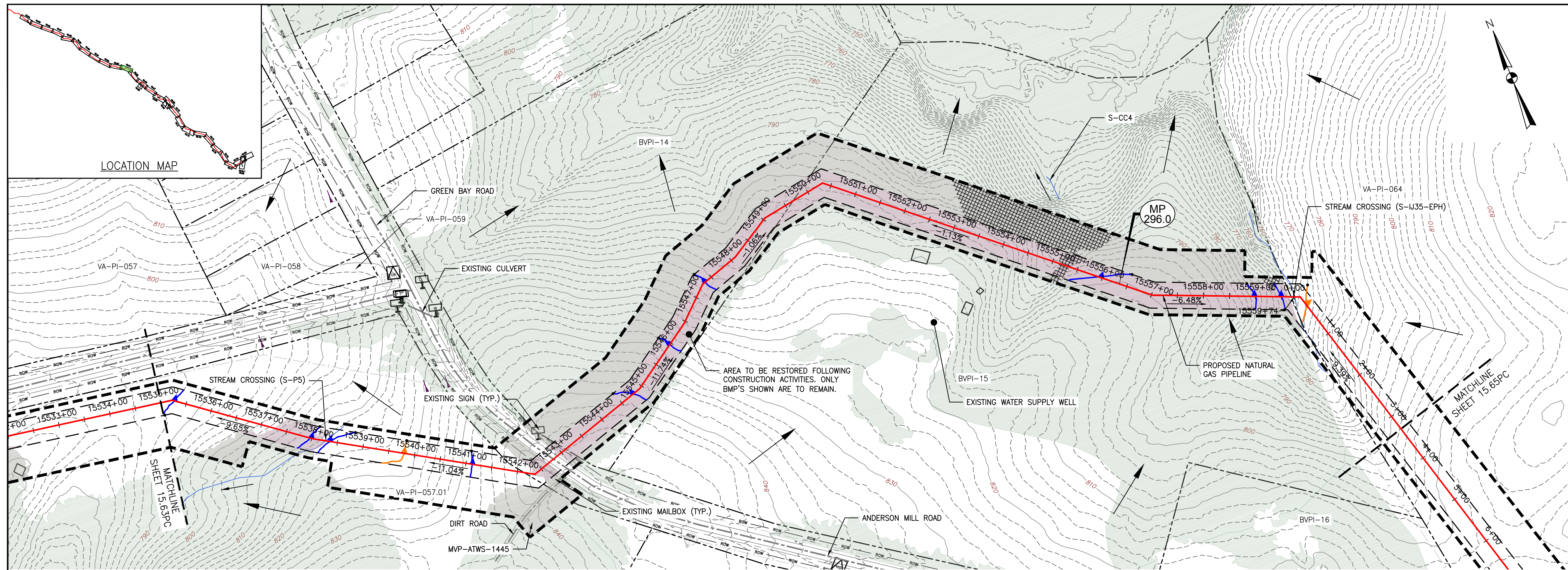
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

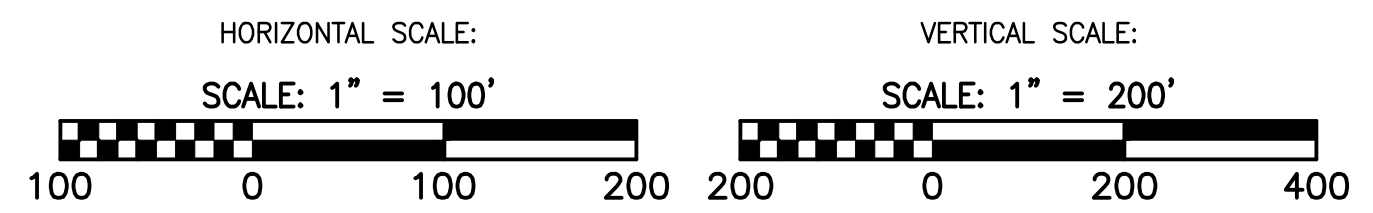
POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS

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

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.63PC OF	15.93PC



PROFILE



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

NOTES:

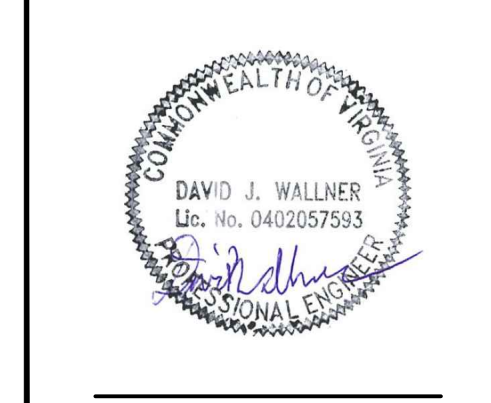
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

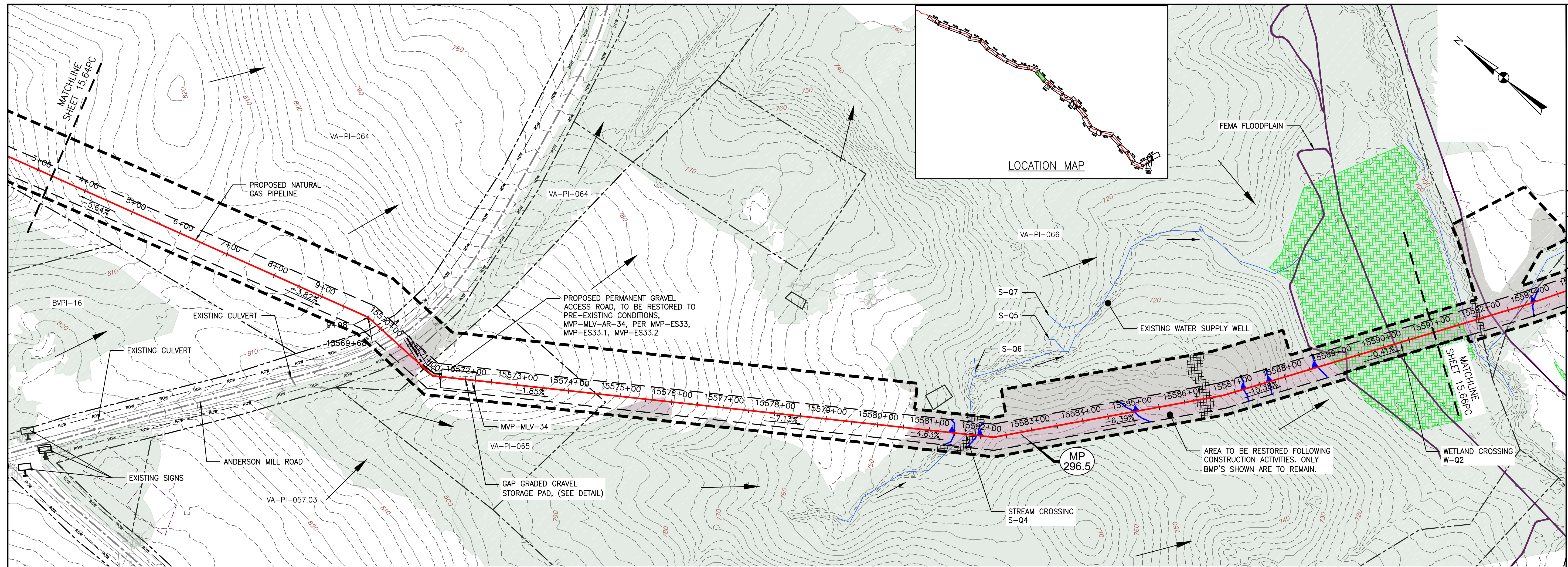
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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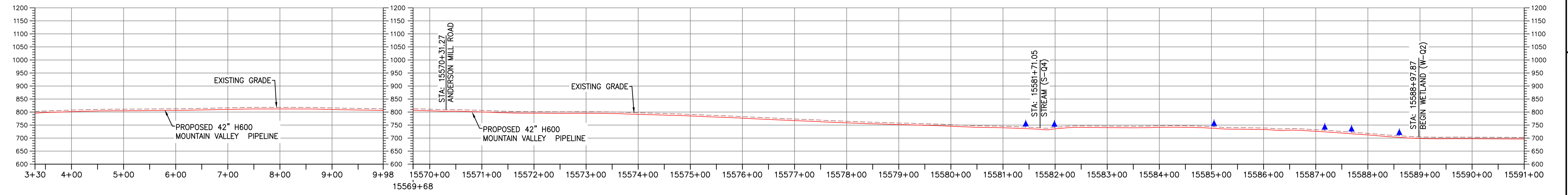
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.64PC OF 15.93PC	REVISION



PLAN
SCALE: 1" = 100'



PROFILE

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

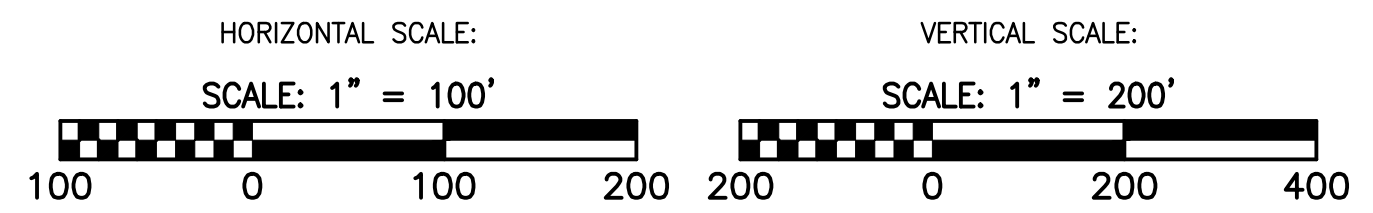
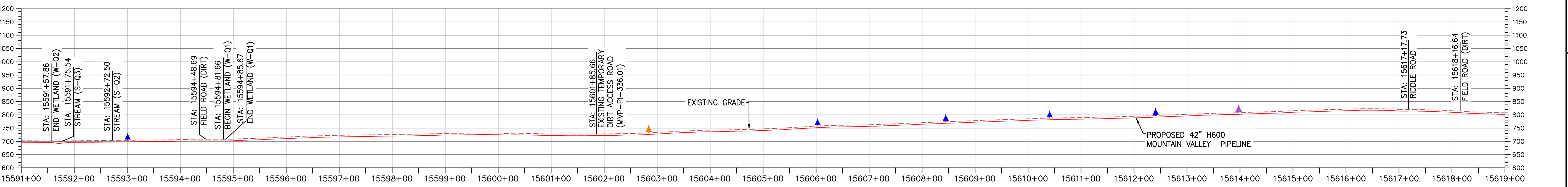
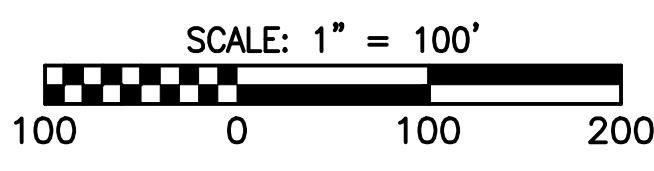
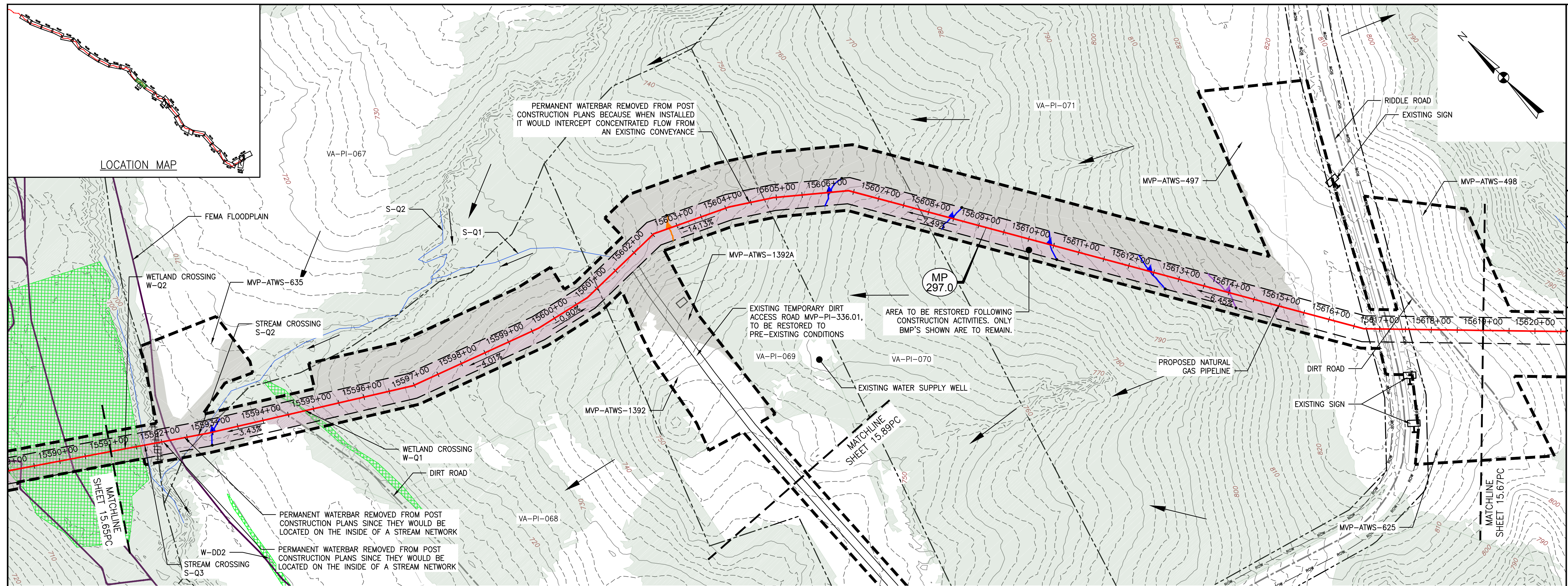
LEGEND

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

NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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ADDRESS VAEQ COMMENTS		RE	DW	KAL	03/21/18	6
ADDRESS VAEQ COMMENTS		RE	DW	KAL	03/16/18	5
ADDRESS VAEQ COMMENTS		RE	DW	KAL	03/04/18	4
RESUBMISSION USING APPROVED STORMWATER METHODOLOGY		RE	DW	KAL	02/20/18	3
ADDRESS VAEQ COMMENTS		RE	DW	KAL	11/21/17	2
PLAN SUBMISSION		RE	DW	KAL	09/11/17	1
NO.:	DATE:	DWN.:	CHKD.:	APPD.:		
REVISIONS:						
<p>Mountain Valley Pipeline</p> <p>POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS</p> <p>MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE</p> <p>SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA</p> <p>MOUNTAIN VALLEY PIPELINE, LLC</p> <p>555 SOUTHPOINTE BOULEVARD, SUITE 200</p> <p>CANONSBURG, PA 15317</p>						
<p>TETRA TECH</p> <p>complex world CLEAR SOLUTIONS™</p> <p>661 ANDERSEN DRIVE</p> <p>FOSTER PLAZA 7</p> <p>PITTSBURGH, PA 15220</p>						
<p>POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS</p>						
<p>DAVID J. WALLNER</p> <p>Lic. No. 0402057593</p> <p>PROFESSIONAL ENGINEER</p>						
DRAWN BY:		KAL				
CHECKED BY:		HT				
APPROVED BY:		RE				
DATE:		03/21/2018				
SCALE:		AS SHOWN				
SHT. NO. 15.65PC OF 15.93PC						



- LEGEND**
- EXISTING CULVERT
 - STREAM
 - - - EXISTING PROPERTY LINE
 - - - EXISTING STATE LINE
 - - - EXISTING COUNTY LINE
 - - - EXISTING ROAD/TRAIL
 - USDA FOREST SERVICE (NATIONAL FOREST) LANDS
 - APPALACHIAN NATIONAL SCENIC TRAIL
 - ACID FORMING MATERIAL
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 - - - PROPOSED LIMIT OF DISTURBANCE
 - - - PROPOSED PERMANENT RIGHT OF WAY
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 - PROPOSED LEVEL SPREADER
 - - - PROPOSED ACCESS ROAD CENTERLINE
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 - EXISTING FOREST
 - PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
 - TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VABEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

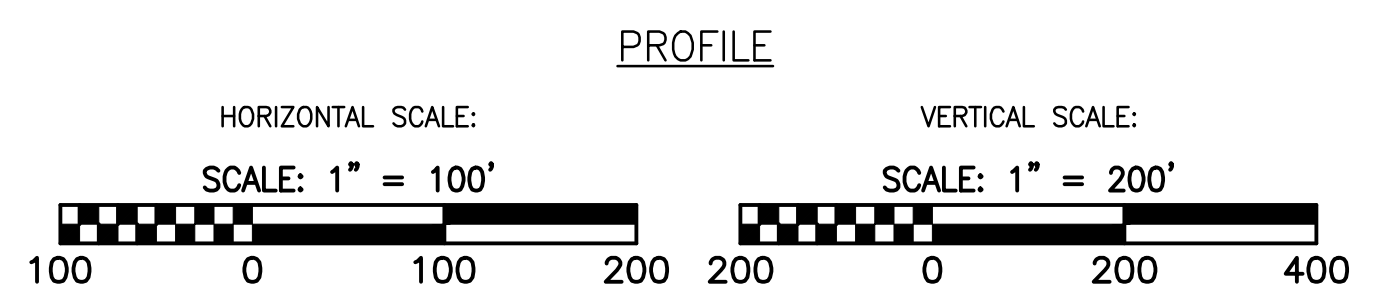
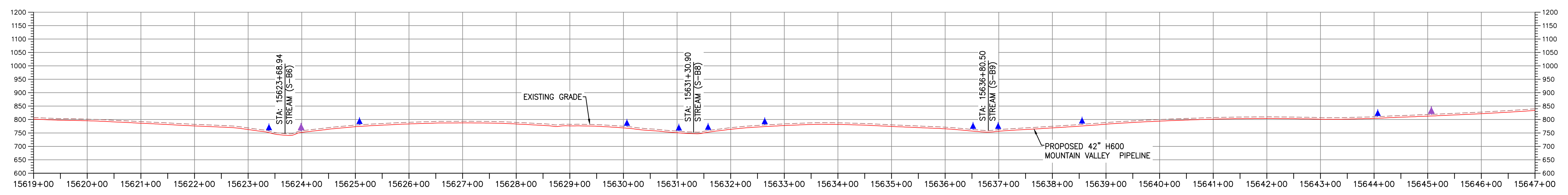
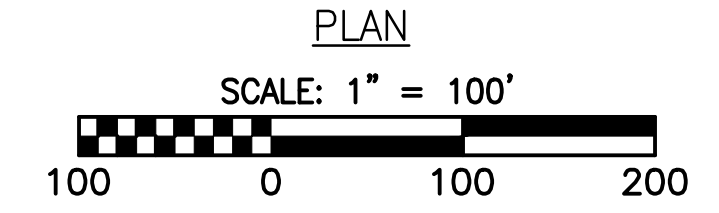
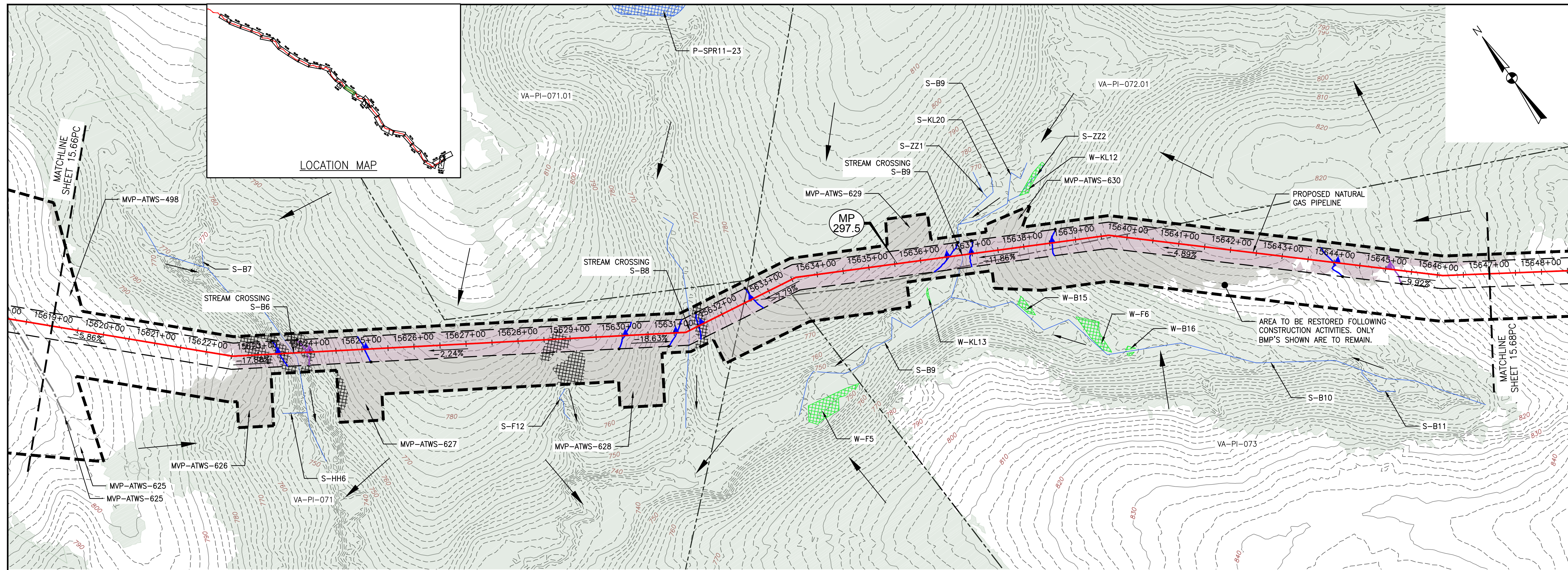
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

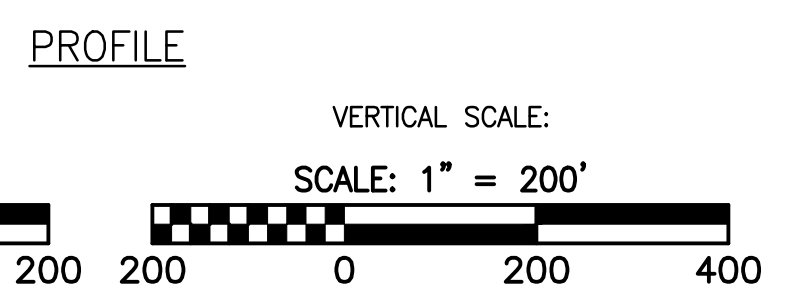
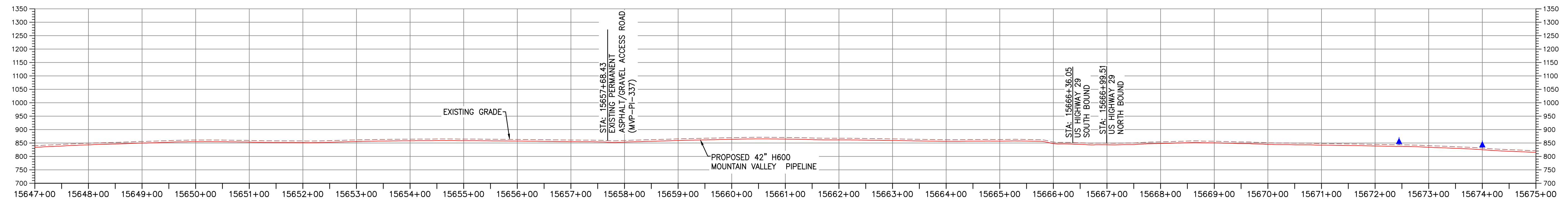
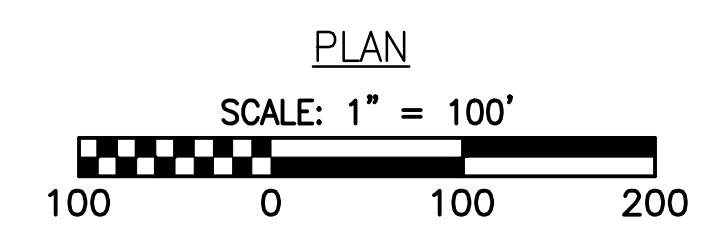
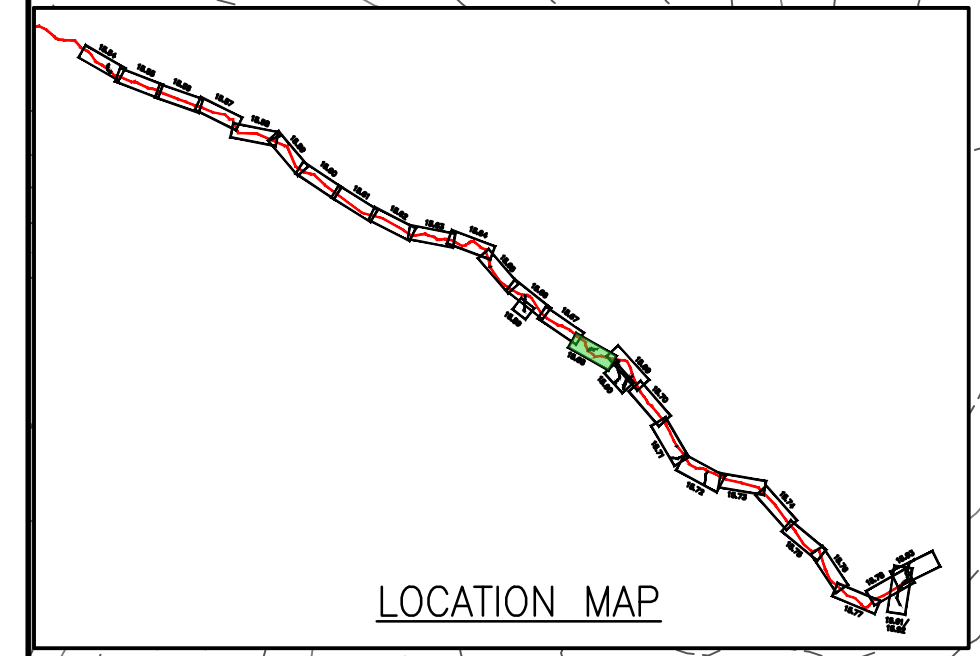
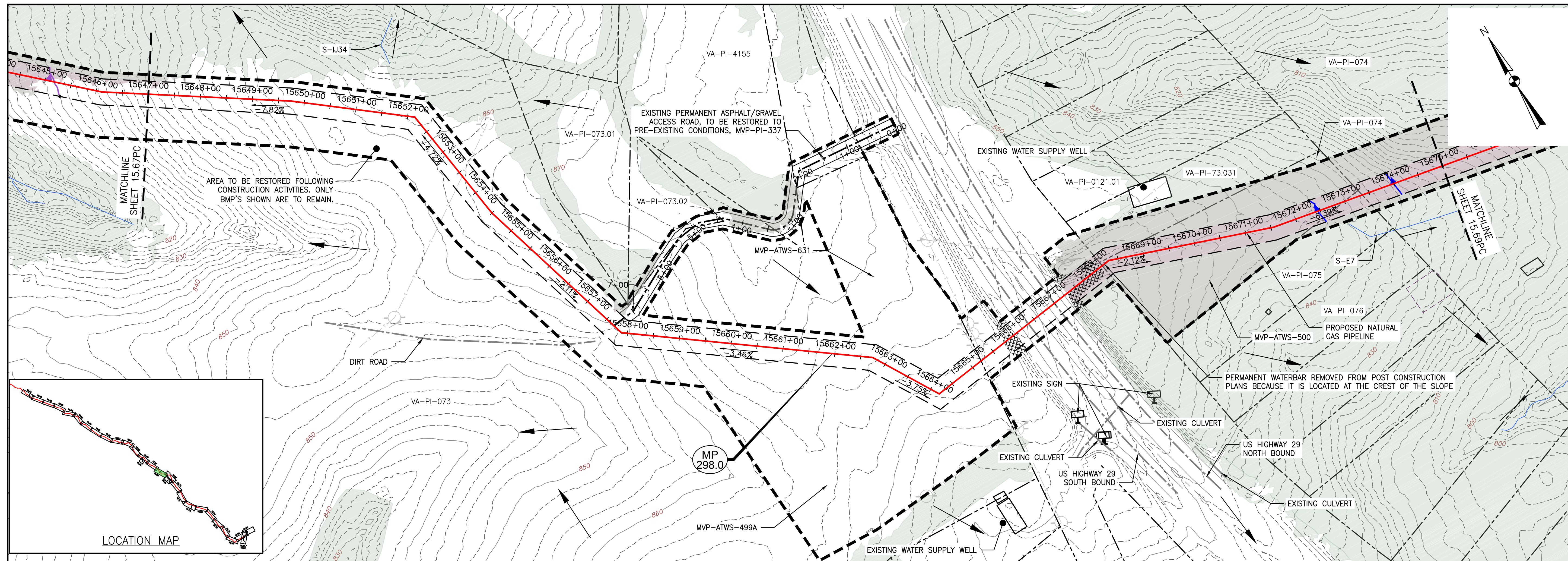
DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.66PC OF 15.93PC



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

- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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	ADDRESS VABEQ COMMENTS	RE	DW	KAL	03/16/18	5
	ADDRESS VABEQ COMMENTS	RE	DW	KAL	03/04/18	4
	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY	RE	DW	KAL	02/20/18	3
	ADDRESS VABEQ COMMENTS	RE	DW	KAL	11/21/17	2
	PLAN SUBMISSION	RE	DW	KAL	09/11/17	1
	DESCRIPTION:	NO.	DATE:	CHKD.:	APPD.:	
REVISIONS:						
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA						
MOUNTAIN VALLEY PIPELINE, LLC 555 SOUTHPOINTE BOULEVARD, SUITE 200 CANONSBURG, PA 15317						
complex world CLEAR SOLUTIONS™ 661 ANDERSEN DRIVE FOSTER PLAZA 7 PITTSBURGH, PA 15220						
<div style="border: 1px solid black; padding: 5px; color: red;"> POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS </div>						
DRAWN BY: KAL						
CHECKED BY: HT						
APPROVED BY: RE						
DATE: 03/21/2018						
SCALE: AS SHOWN						
SHT. NO. 15.67PC OF 15.93PC						



LEGEND

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

NOTES:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		ADDRESS VADED COMMENTS
5	03/16/18	KAL		ADDRESS VADED COMMENTS
4	03/04/18	KAL		ADDRESS VADED COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL		ADDRESS VADED COMMENTS
1	09/11/17	KAL		PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

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

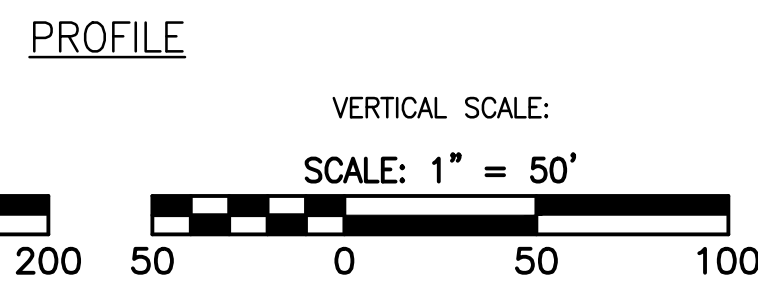
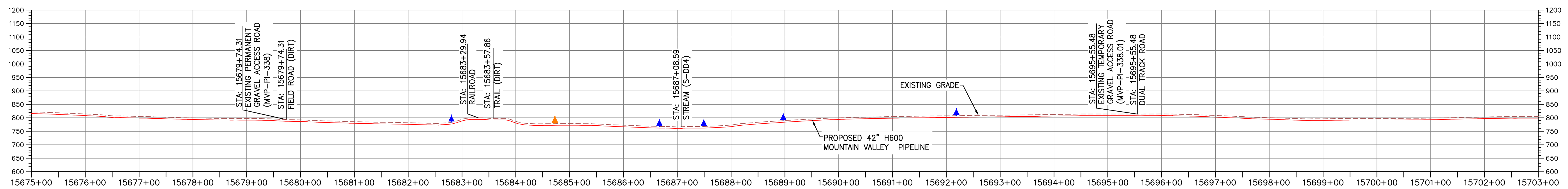
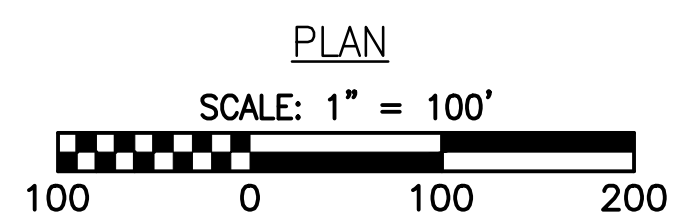
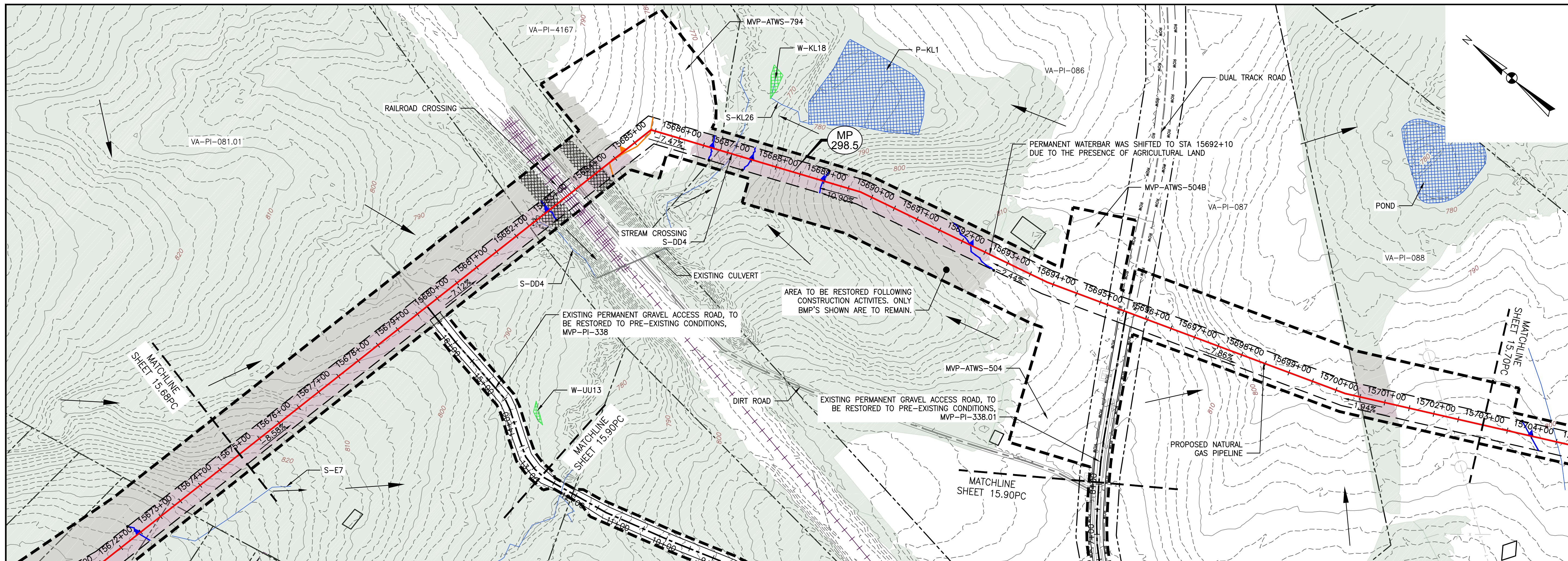
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

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

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.68PC OF 15.93PC



LEGEND

- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- - - EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- - - PROPOSED LIMIT OF DISTURBANCE
- - - PROPOSED PERMANENT RIGHT OF WAY
- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
- SURFACE WATER FLOW DIRECTION
- POND
- WETLAND
- PROPOSED CULVERT WITH OUTLET PROTECTION (SEE DETAILS MVP-ES7, 7.1)
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- STREAM FLOW DIRECTION
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- PERMANENT WATER BAR 10' END TREATMENT
- PERMANENT WATER BAR 15' END TREATMENT
- PERMANENT WATER BAR 20' END TREATMENT
- STEEP SLOPE AREA
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
1	09/11/17	KAL	DW	PLAN SUBMISSION
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

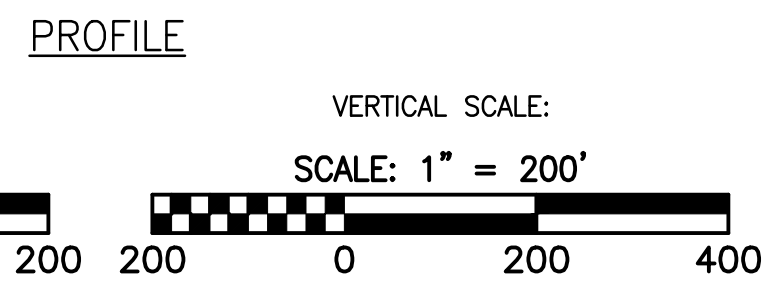
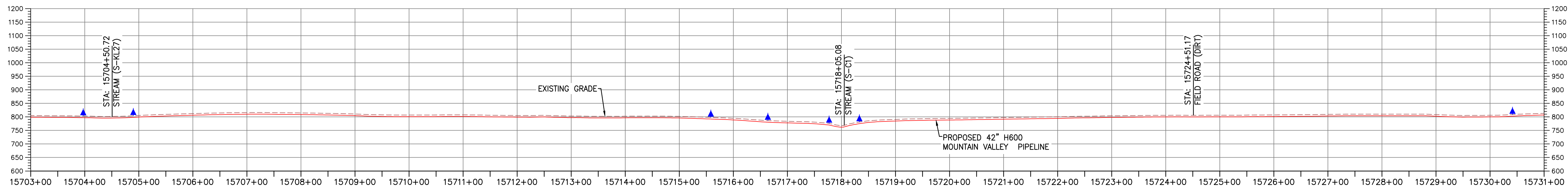
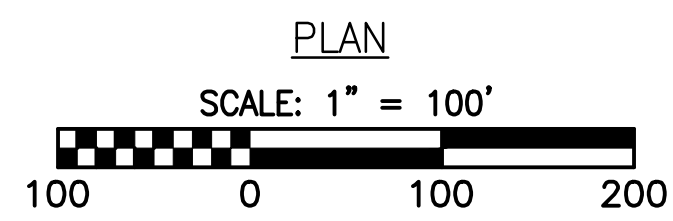
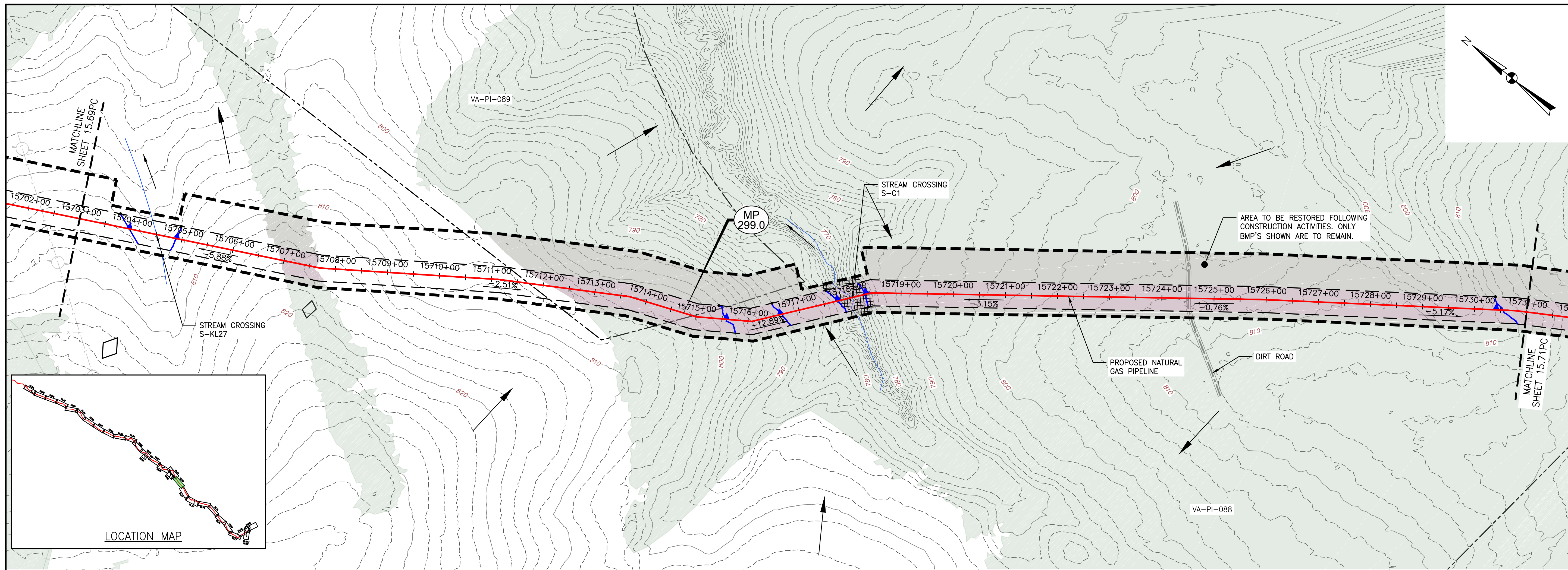
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661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY: KAL
CHECKED BY: HT
APPROVED BY: RE
DATE: 03/21/2018
SCALE: AS SHOWN
SHT. NO. 15.69PC OF 15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

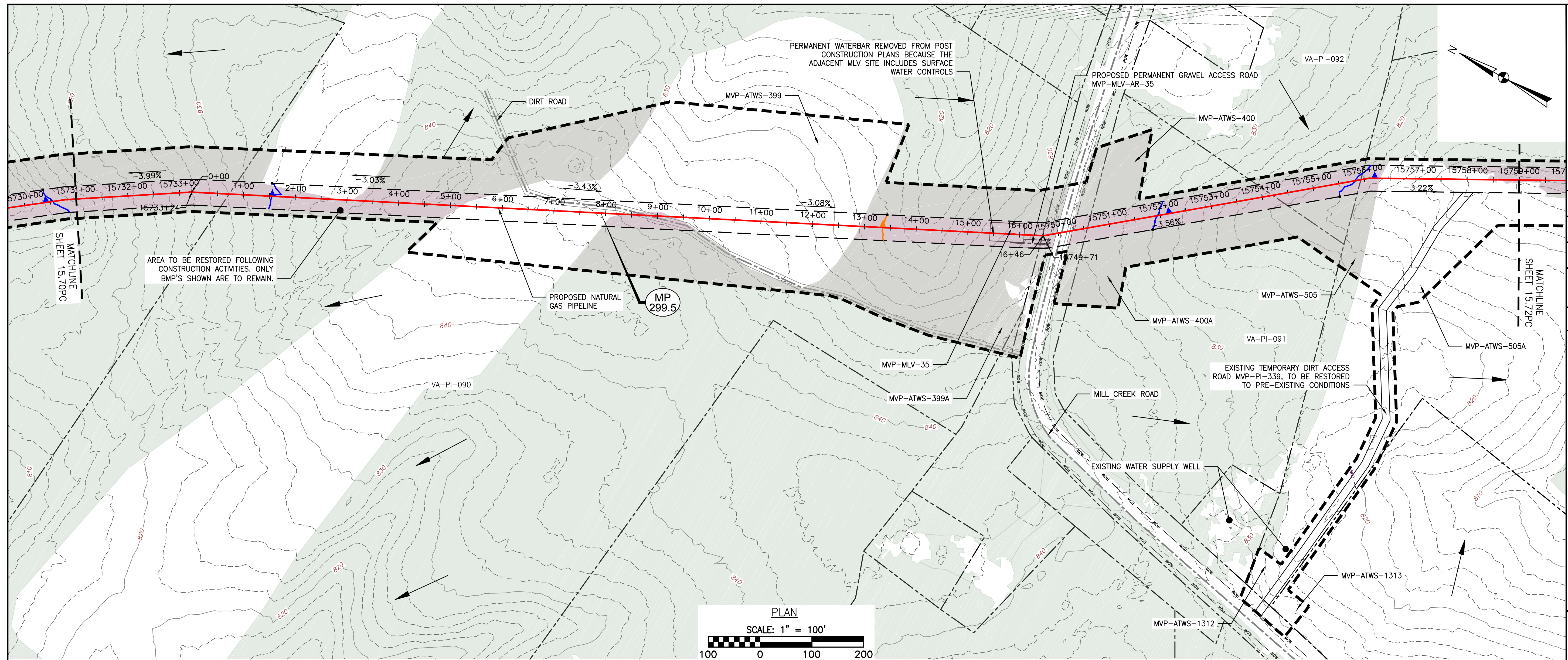
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

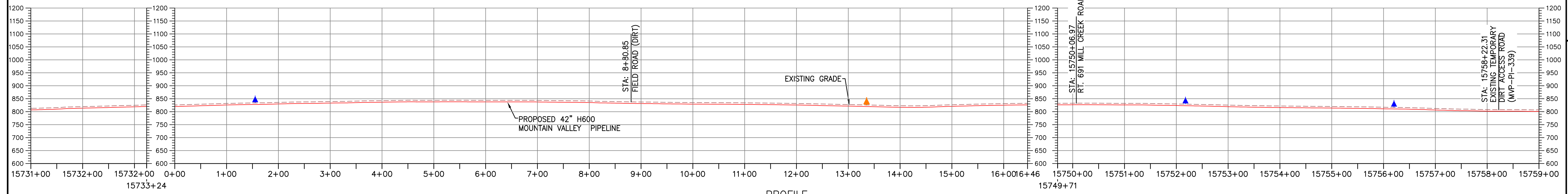
POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS

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

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.70PC OF 15.93PC



PLAN
SCALE: 1" = 100'



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

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

- NOTES:**
- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	REVISIONS:
5	03/16/18	KAL	RE	ADDRESS VADED COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADED COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADED COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

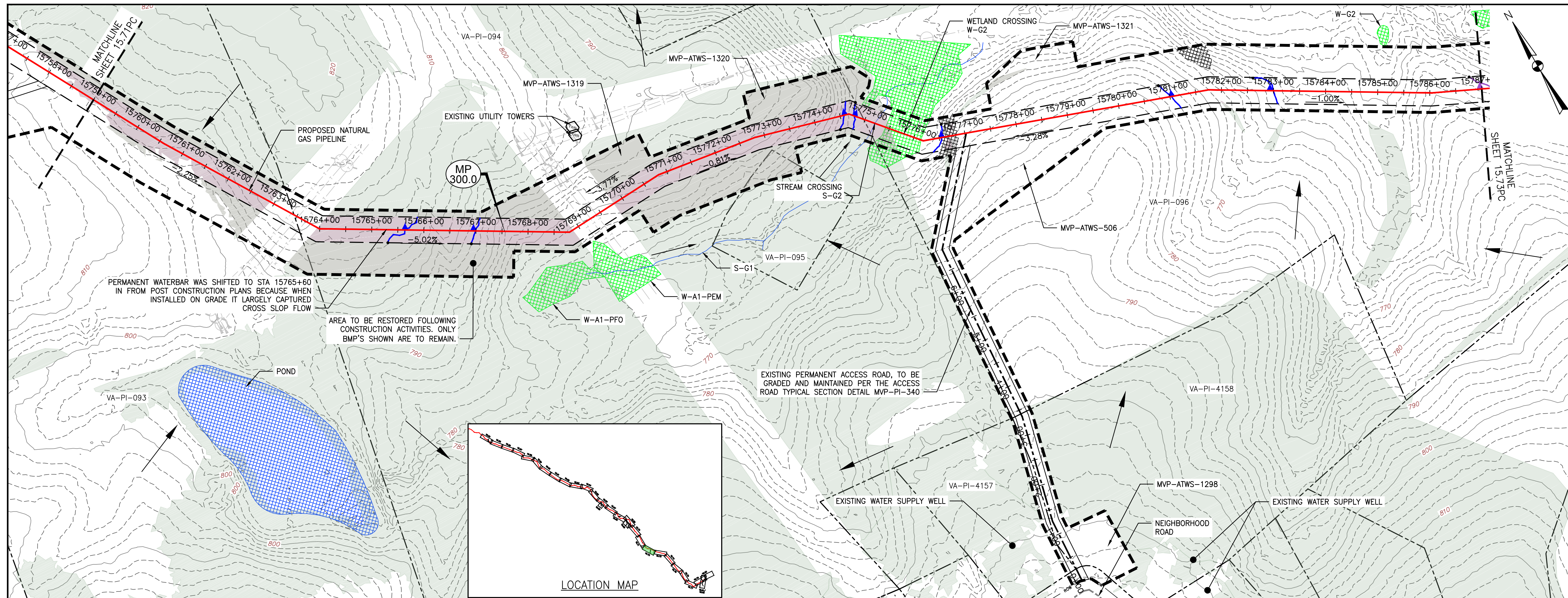
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FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

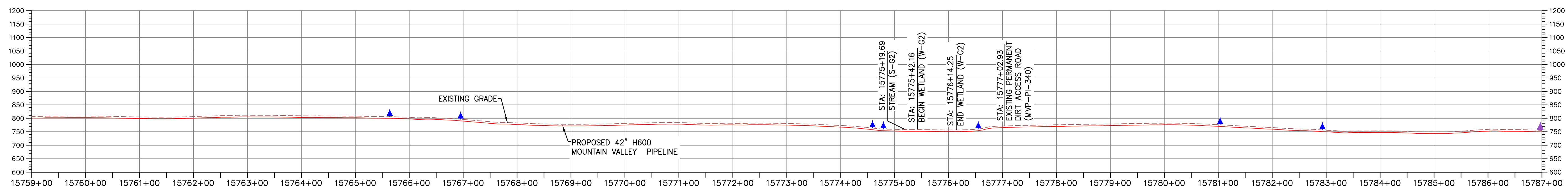
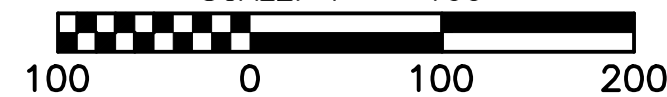
DAVID J. WALLNER
Lic. No. 0402057593
Professional Engineer

DRAWN BY: KAL
CHECKED BY: HT
APPROVED BY: RE
DATE: 03/21/2018
SCALE: AS SHOWN
SHT. NO. 15.71PC OF 15.93PC



PLAN

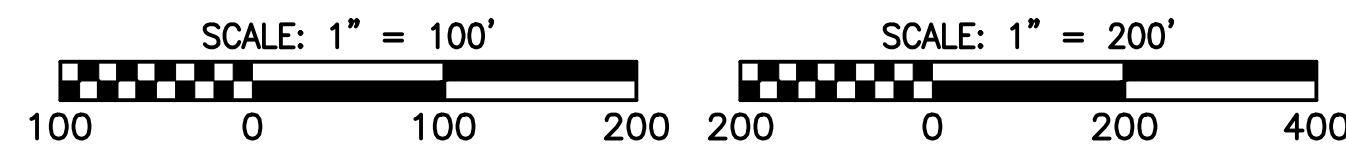
SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE: SCALE: 1" = 100'

VERTICAL SCALE: SCALE: 1" = 200'



LEGEND

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

NOTES:

1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		ADDRESS VABEQ COMMENTS
5	03/16/18	KAL		ADDRESS VABEQ COMMENTS
4	03/04/18	KAL		ADDRESS VABEQ COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL		ADDRESS VABEQ COMMENTS
1	09/11/17	KAL		PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

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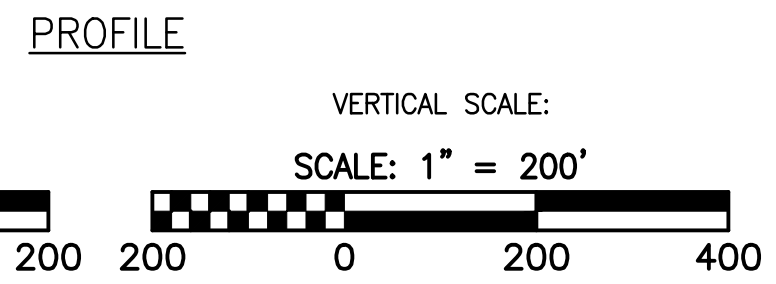
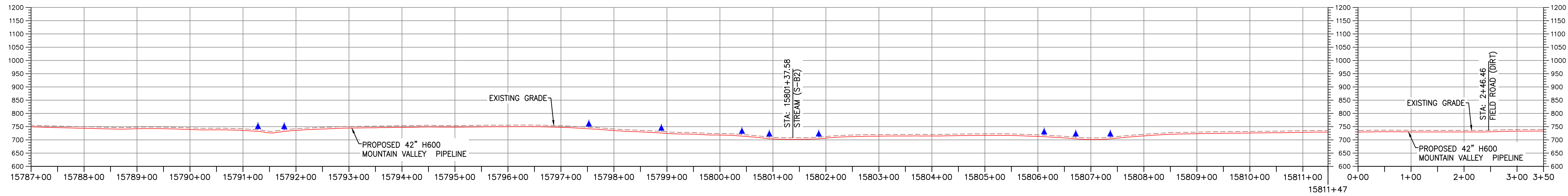
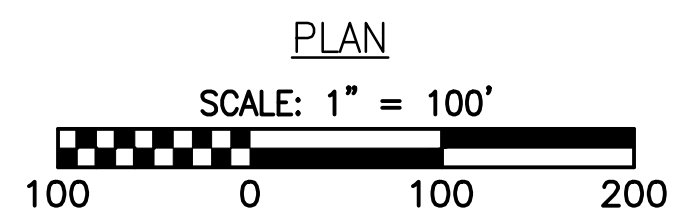
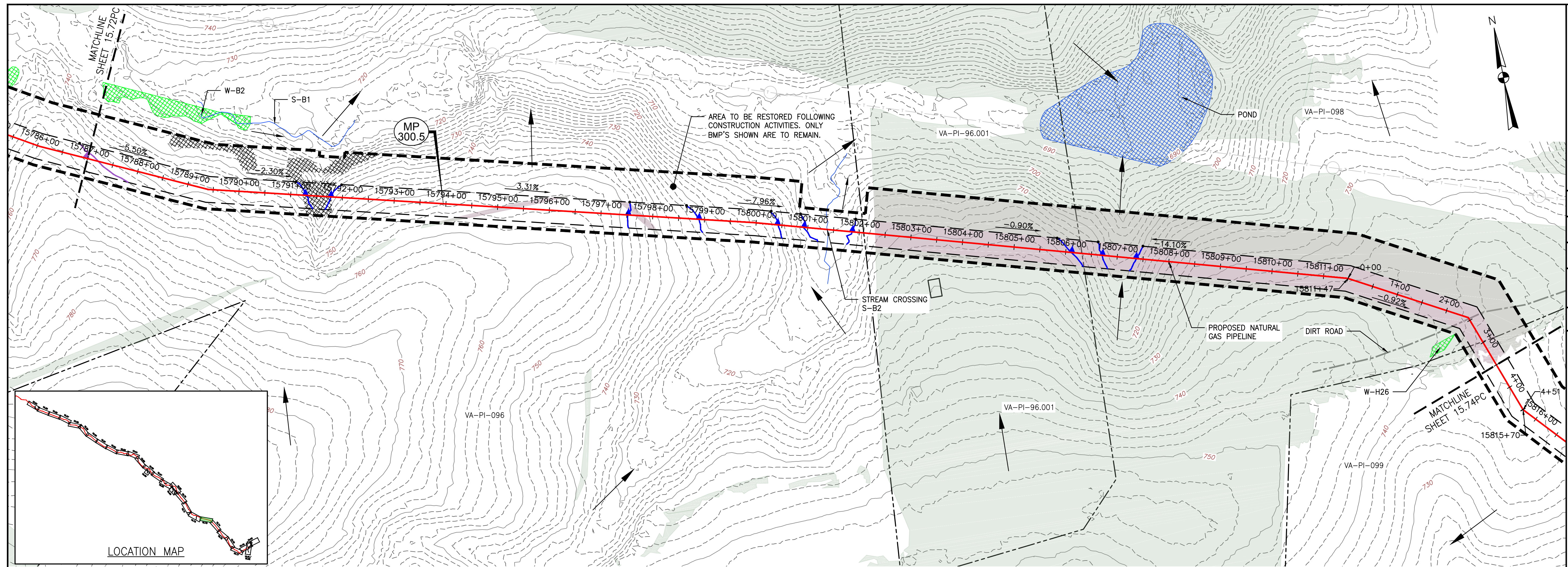
661 ANDERSEN DRIVE
FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS

DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY: KAL
CHECKED BY: HT
APPROVED BY: RE

DATE: 03/21/2018
SCALE: AS SHOWN
SHT. NO. 15.72PC OF 15.93PC



LEGEND

- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- - - EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- - - PROPOSED LIMIT OF DISTURBANCE
- - - PROPOSED PERMANENT RIGHT OF WAY
- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
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- PROPOSED PIPELINE
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- POND
- WETLAND
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- PERMANENT WATER BAR 20' END TREATMENT
- STEEP SLOPE AREA
- EXISTING FOREST
- PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
- TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

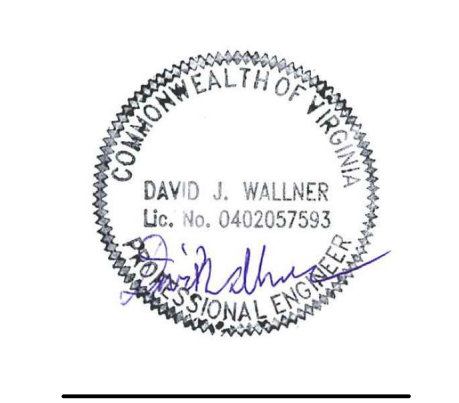
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6	03/21/18	KAL	RE	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

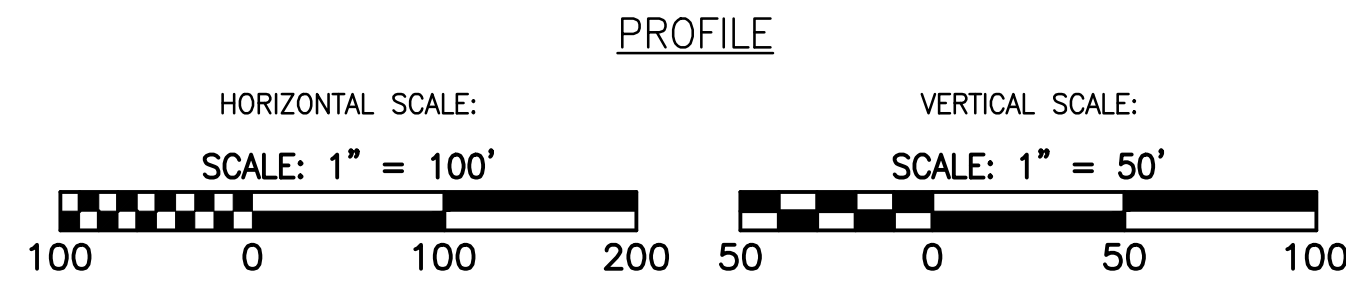
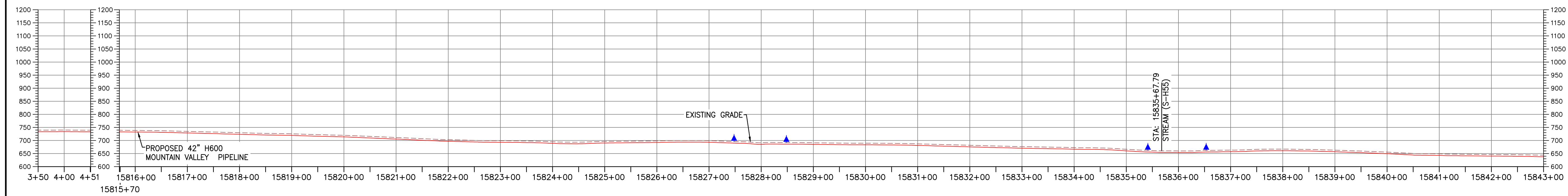
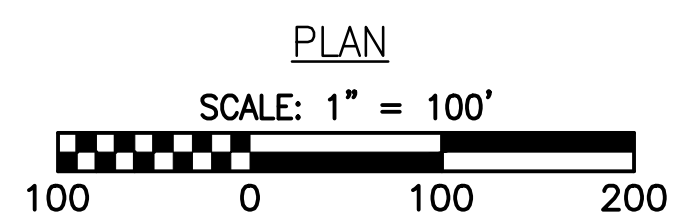
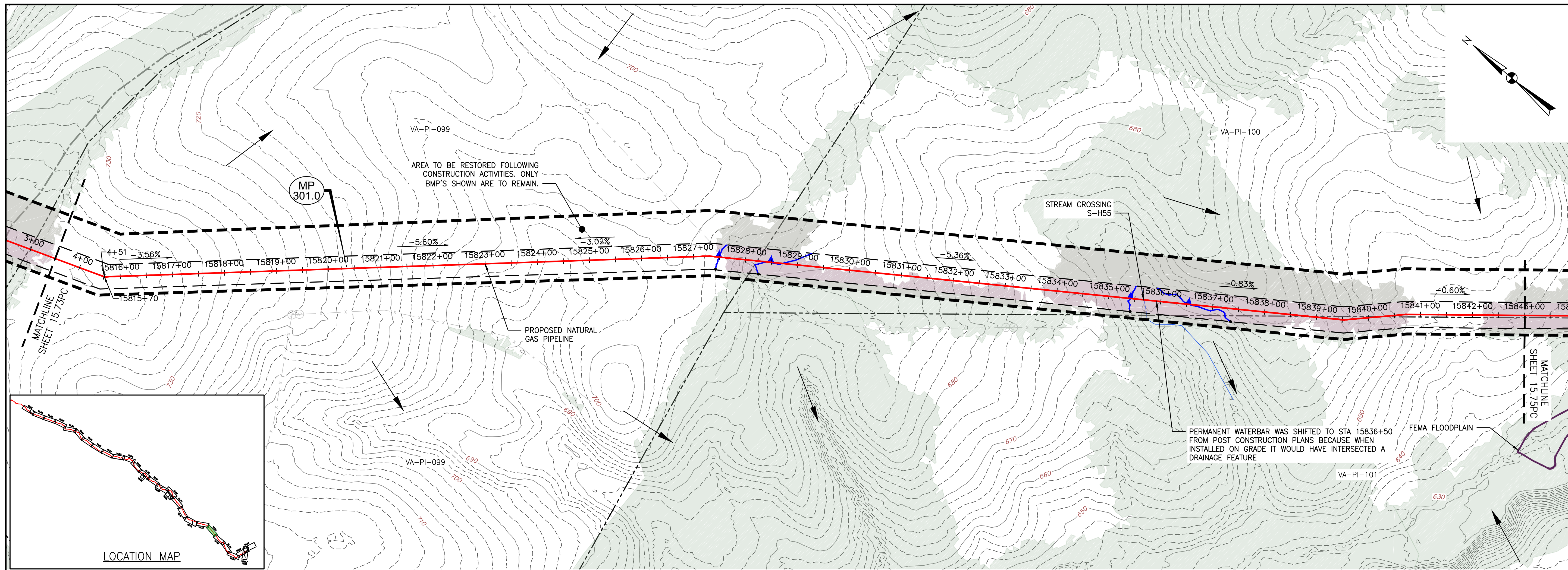
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.73PC OF	15.93PC



- LEGEND**
- EXISTING CULVERT
 - STREAM
 - - - EXISTING PROPERTY LINE
 - - - EXISTING STATE LINE
 - - - EXISTING COUNTY LINE
 - - - EXISTING ROAD/TRAIL
 - USDA FOREST SERVICE (NATIONAL FOREST) LANDS
 - APPALACHIAN NATIONAL SCENIC TRAIL
 - ACID FORMING MATERIAL
 - GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
 - - - PROPOSED LIMIT OF DISTURBANCE
 - - - PROPOSED PERMANENT RIGHT OF WAY
 - PROPOSED LEVEL SPREADER DIVERSION
 - PROPOSED LEVEL SPREADER
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 - FEMA 100 YEAR FLOODPLAIN
 - PERMANENT WATER BAR 10' END TREATMENT
 - PERMANENT WATER BAR 15' END TREATMENT
 - PERMANENT WATER BAR 20' END TREATMENT
 - STEEP SLOPE AREA
 - EXISTING FOREST
 - PERMANENT EASEMENT RESTORED TO MEADOW CONDITION
 - TEMPORARY EASEMENT RESTORED TO BRUSH CONDITION

NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	RE	ADDRESS VADED COMMENTS
5	03/16/18	KAL	RE	ADDRESS VADED COMMENTS
4	03/04/18	KAL	RE	ADDRESS VADED COMMENTS
3	02/20/18	KAL	RE	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	ADDRESS VADED COMMENTS
1	09/11/17	KAL	RE	PLAN SUBMISSION

Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

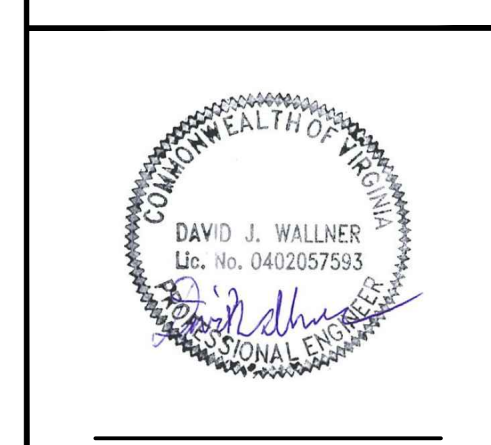
REVISIONS:

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

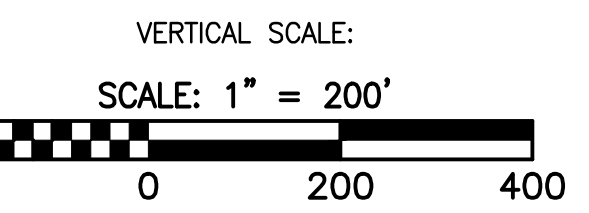
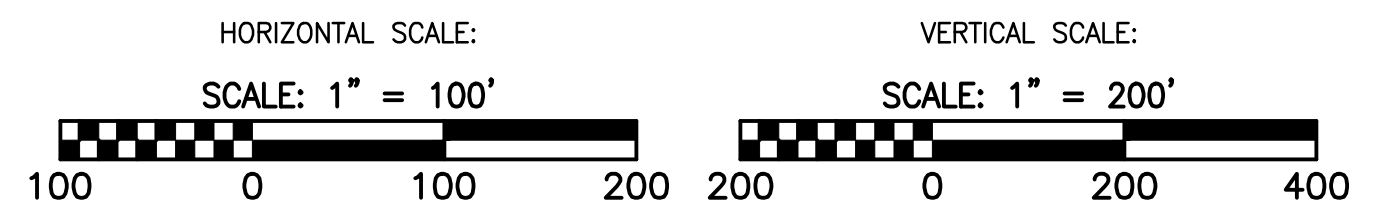
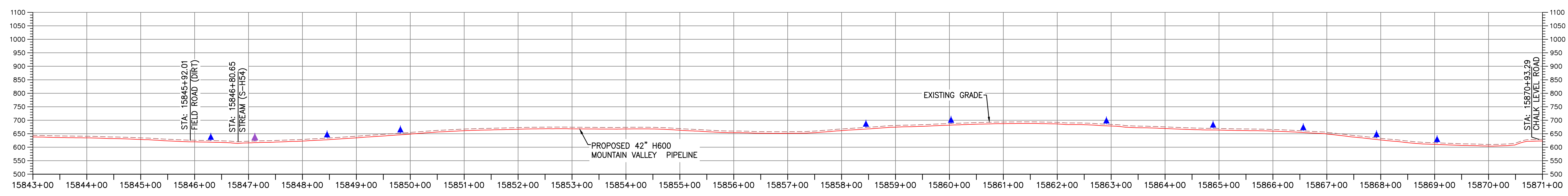
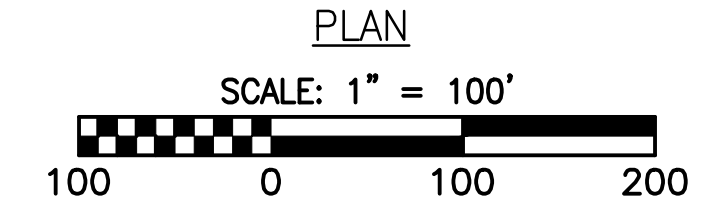
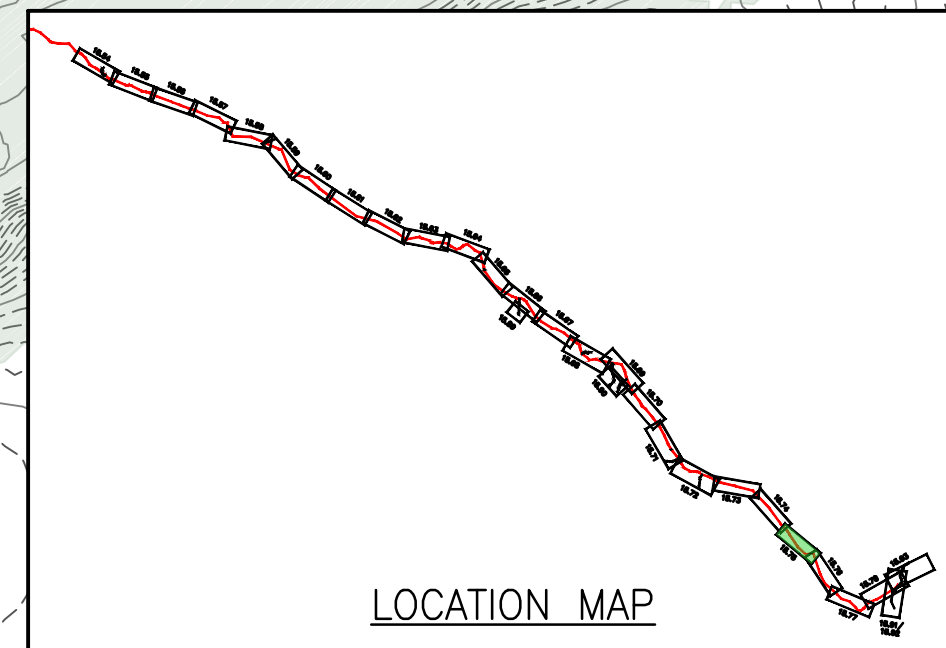
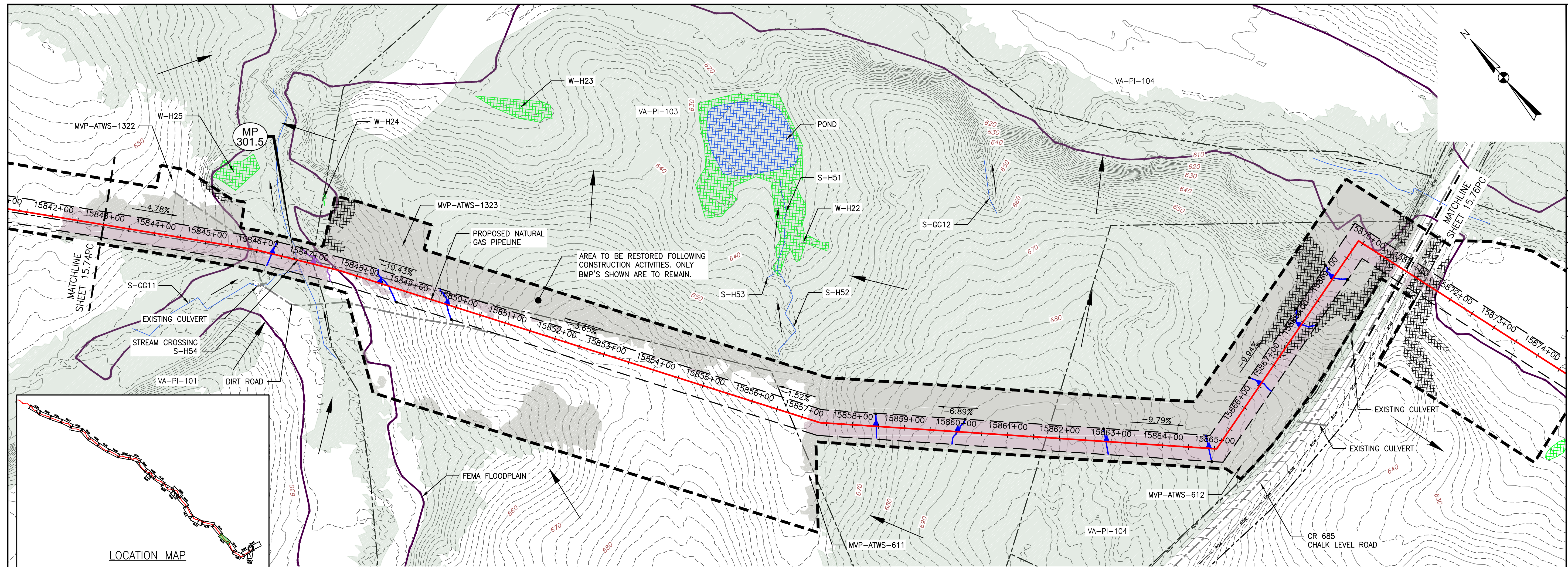
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.74PC OF 15.93PC	REVISION



LEGEND

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

NOTES:

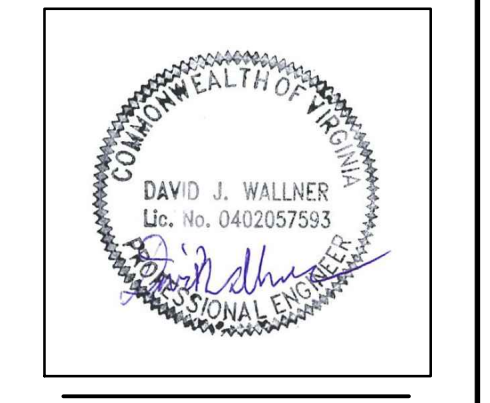
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ADDRESS VAEQ COMMENTS	RE	DW	KAL
ADDRESS VAEQ COMMENTS	RE	DW	KAL
ADDRESS VAEQ COMMENTS	RE	DW	KAL
RESUBMISSION USING APPROVED STORMWATER METHODOLOGY	RE	DW	KAL
ADDRESS VAEQ COMMENTS	RE	DW	KAL
PLAN SUBMISSION	RE	DW	KAL
NO.	DATE	DWN.	CHKD.
NO.	DATE	DWN.	CHKD.

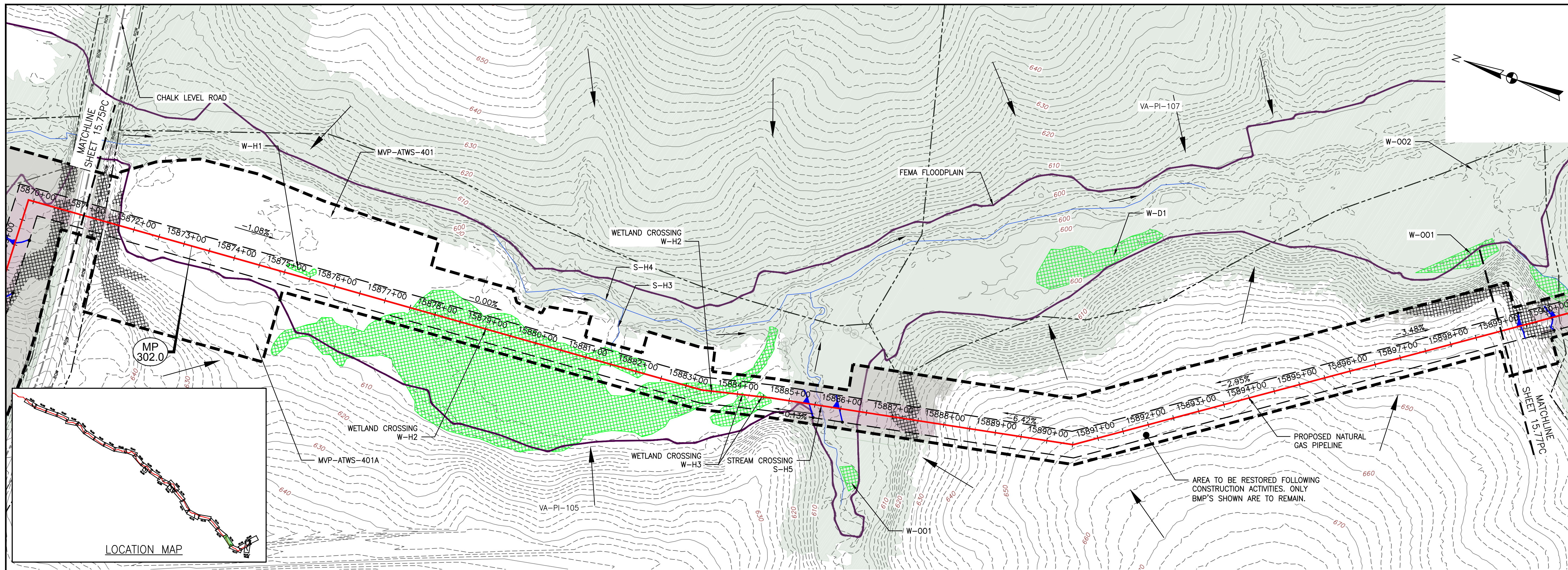
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
 MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

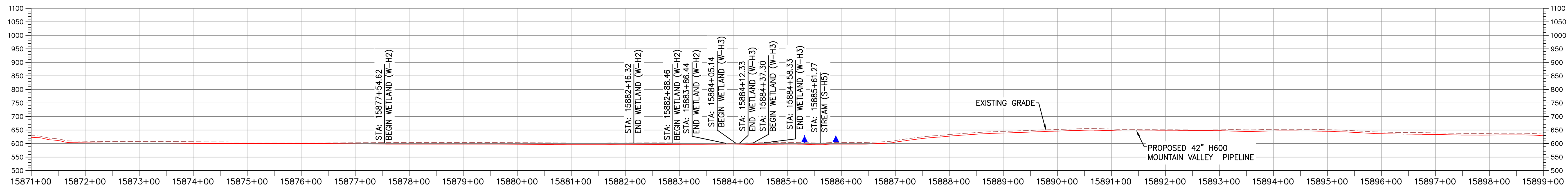


DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.75PC OF	15.93PC



PLAN

SCALE: 1" = 100'



PROFILE

HORIZONTAL SCALE:

SCALE: 1" = 100'



VERTICAL SCALE:

SCALE: 1" = 200'



LEGEND

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

NOTES:

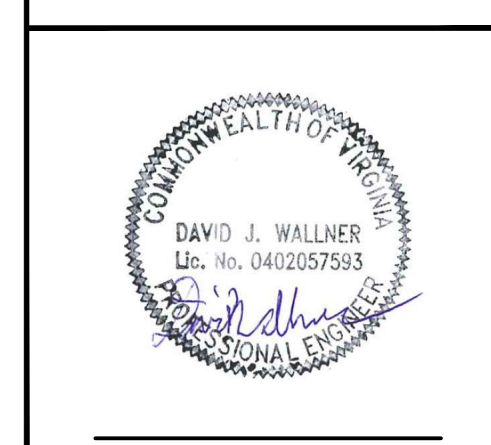
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL		ADDRESS VADEQ COMMENTS
5	03/16/18	KAL		ADDRESS VADEQ COMMENTS
4	03/04/18	KAL		ADDRESS VADEQ COMMENTS
3	02/20/18	KAL		RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL		ADDRESS VADEQ COMMENTS
1	09/11/17	KAL		PLAN SUBMISSION

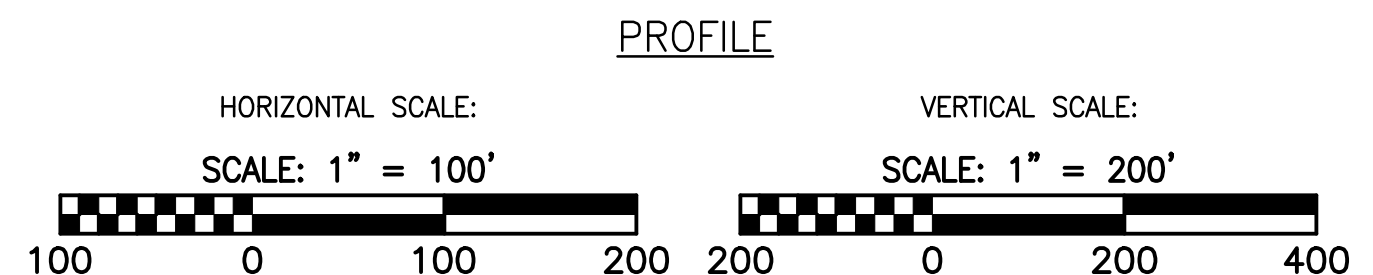
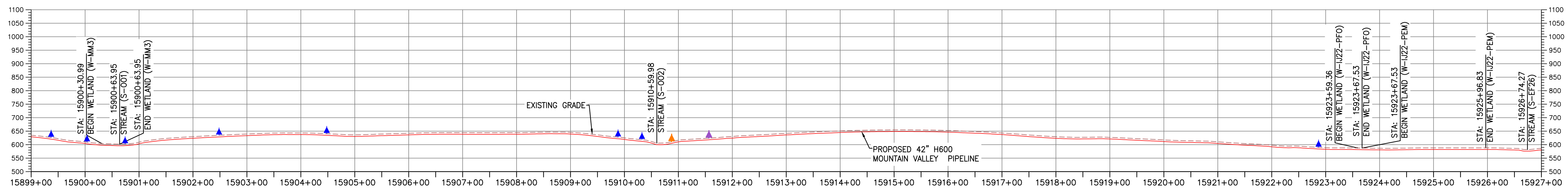
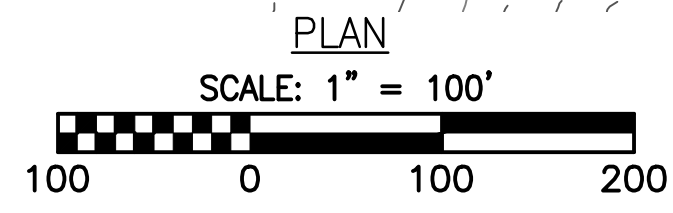
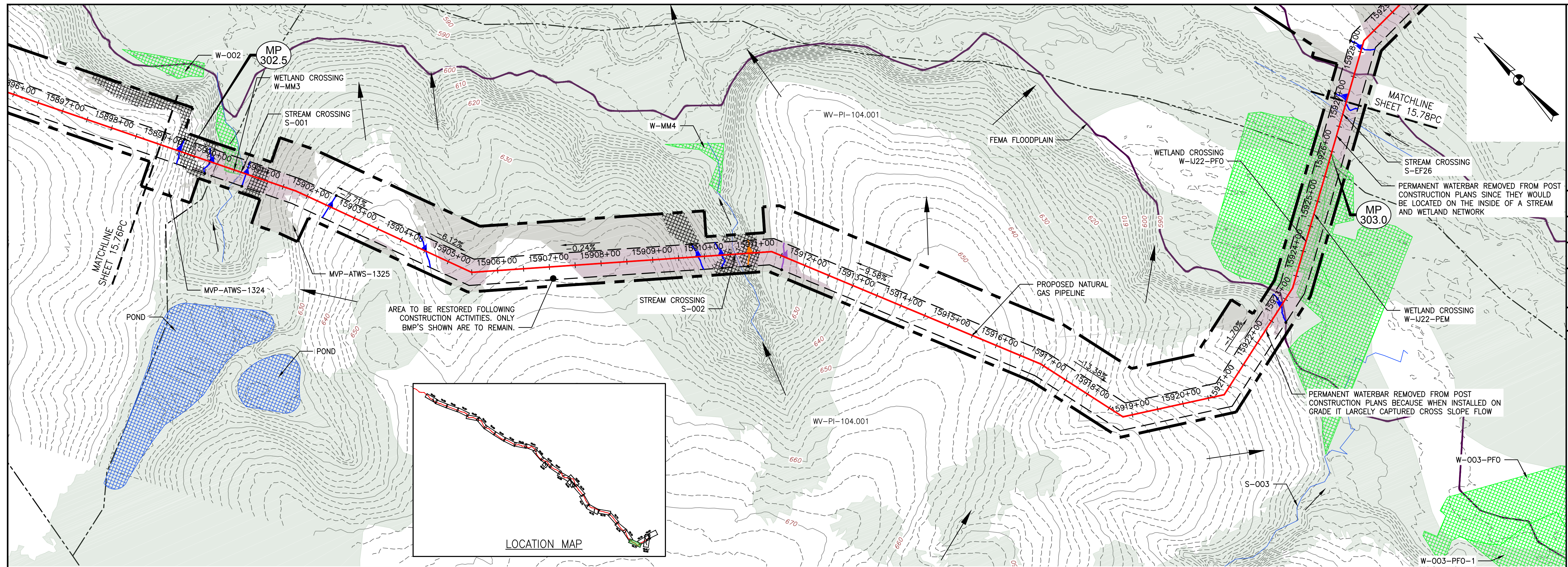
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.76PC OF	15.93PC



LEGEND

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

NOTES:

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1	09/11/17	KAL	RE	PLAN SUBMISSION

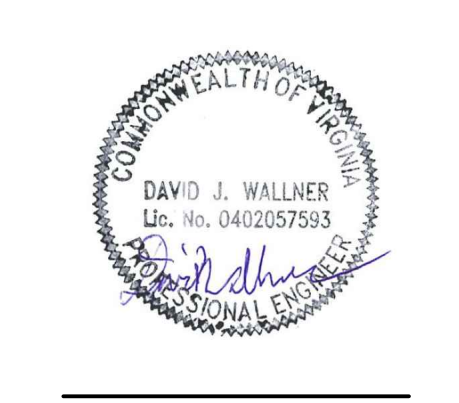
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

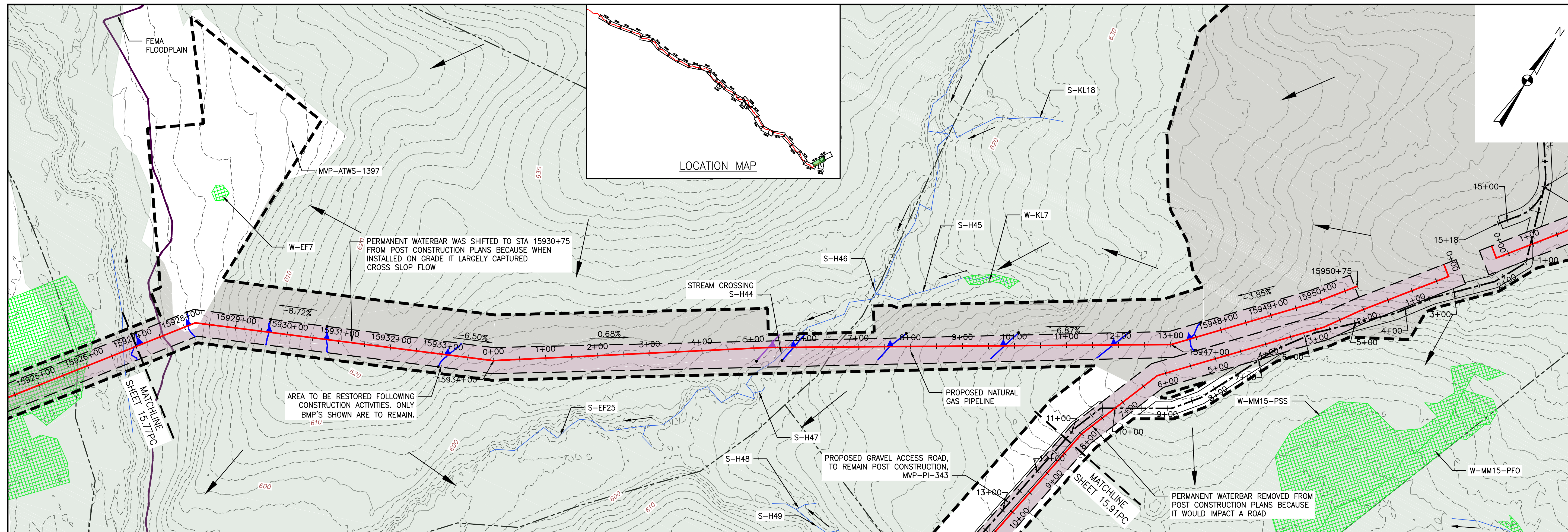
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 PITTSBURGH, PA 15220

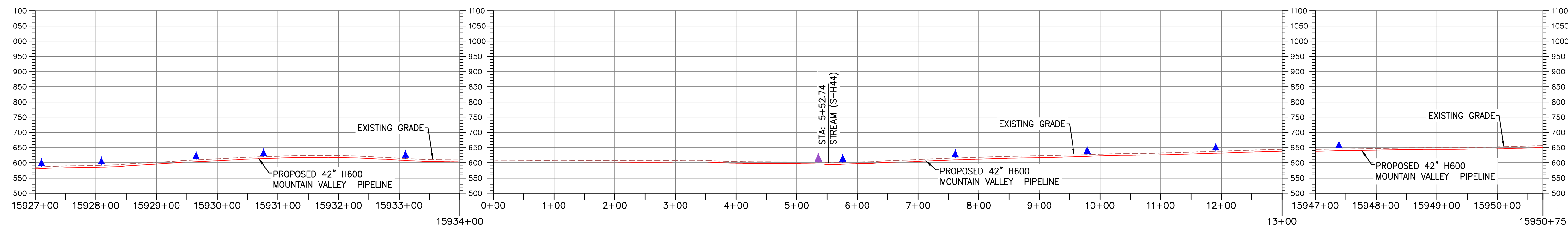
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DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.77PC OF	15.93PC



PLAN
SCALE: 1" = 100'



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

- LEGEND**
- EXISTING CULVERT
 - STREAM
 - - - EXISTING PROPERTY LINE
 - - - EXISTING STATE LINE
 - - - EXISTING COUNTY LINE
 - - - EXISTING ROAD/TRAIL
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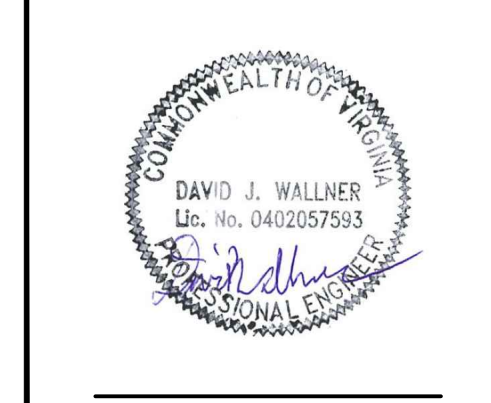
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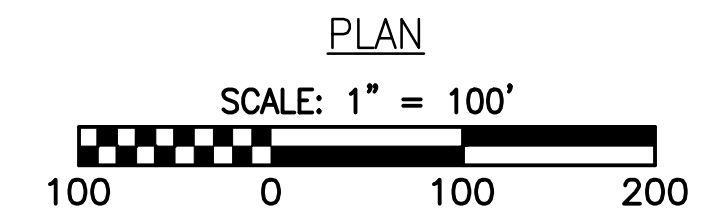
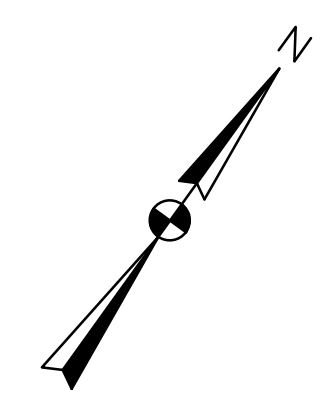
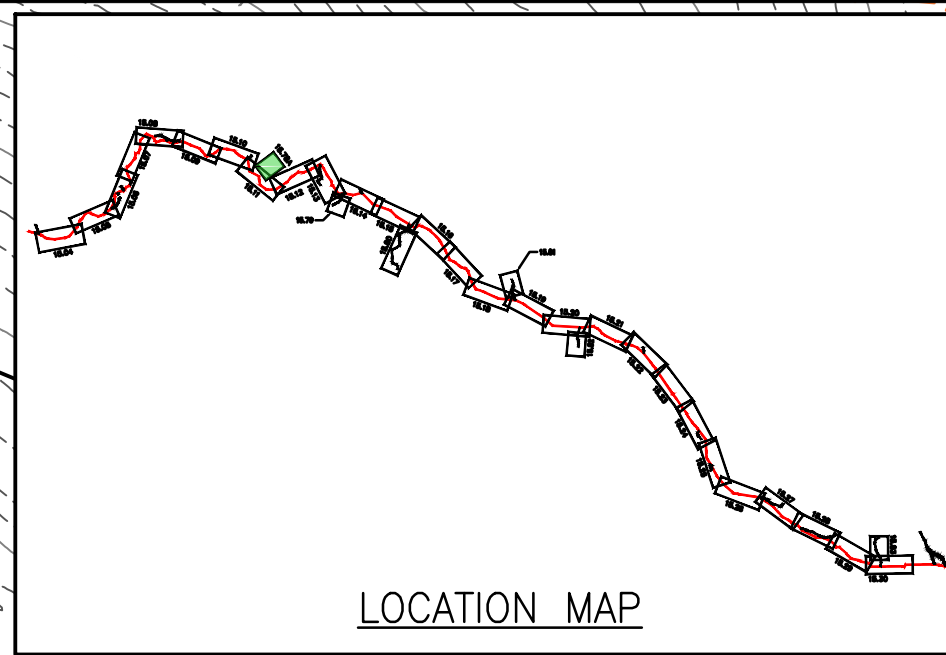
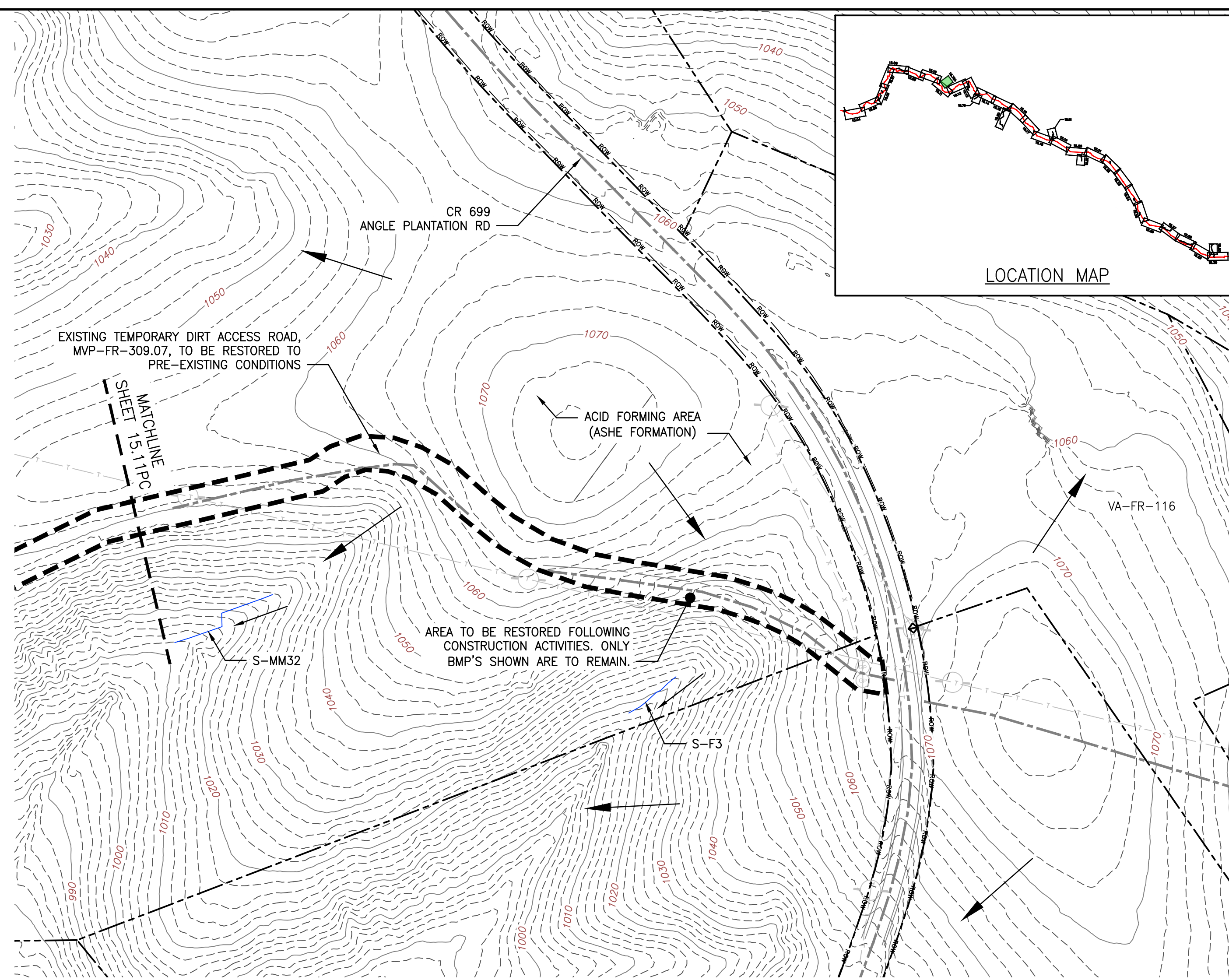
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
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POST CONSTRUCTION
(STORMWATER &
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DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.78PC OF	15.93PC



LEGEND

- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- - - EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
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3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADED COMMENTS
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NO:	DATE:	DWN.:	CHKD.:	APPD.:

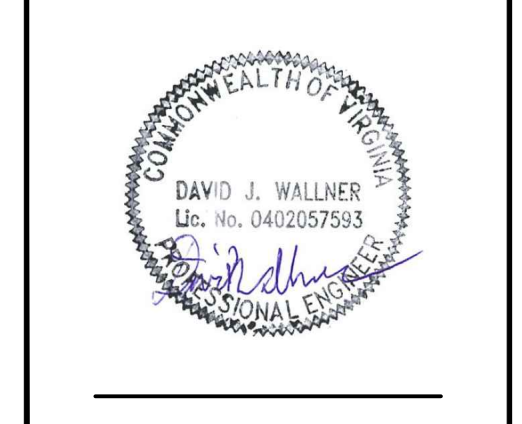
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

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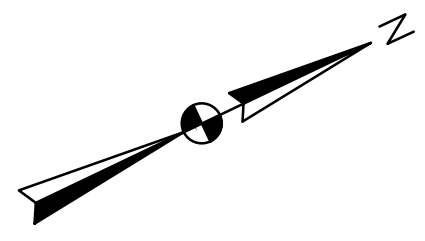
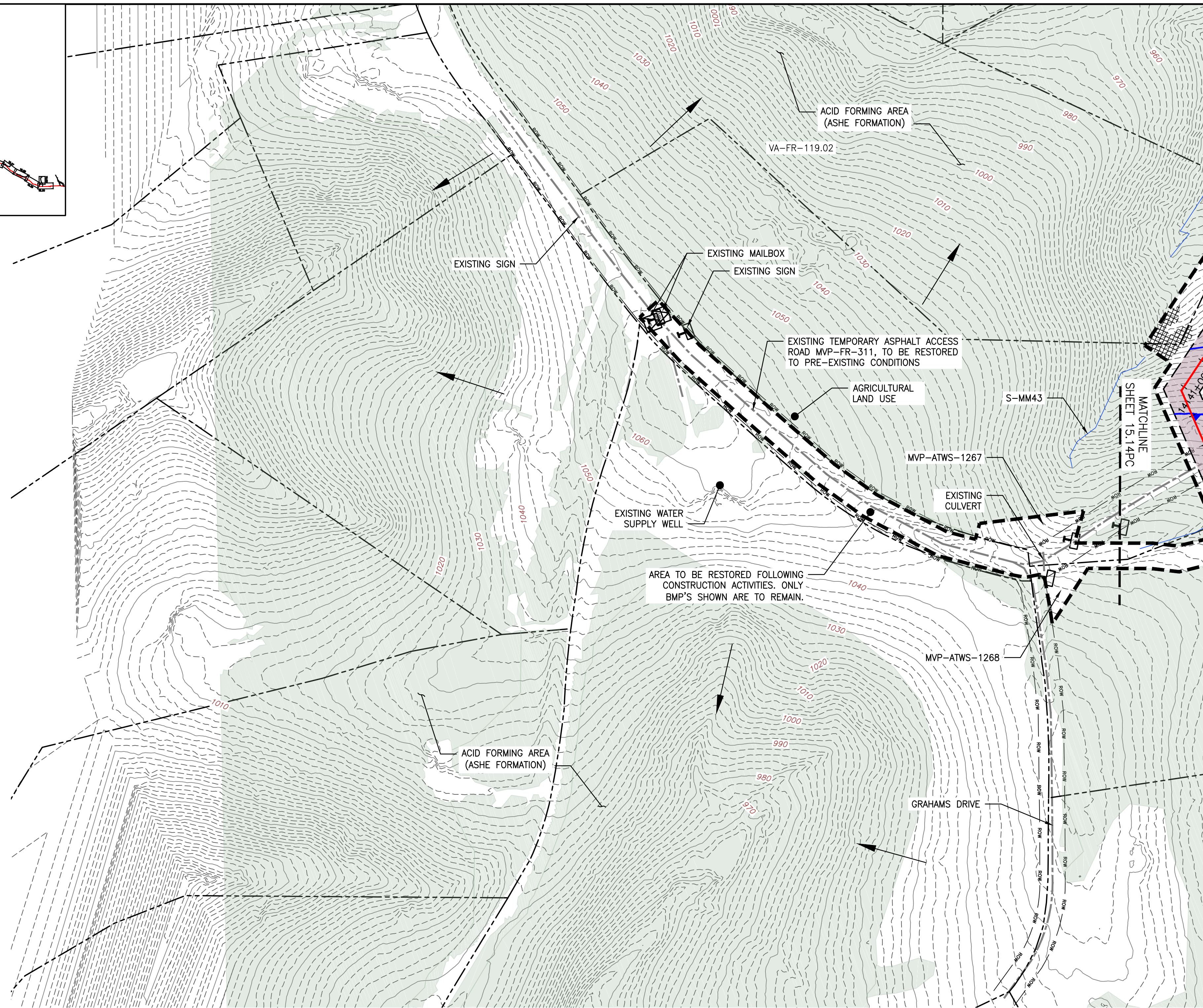
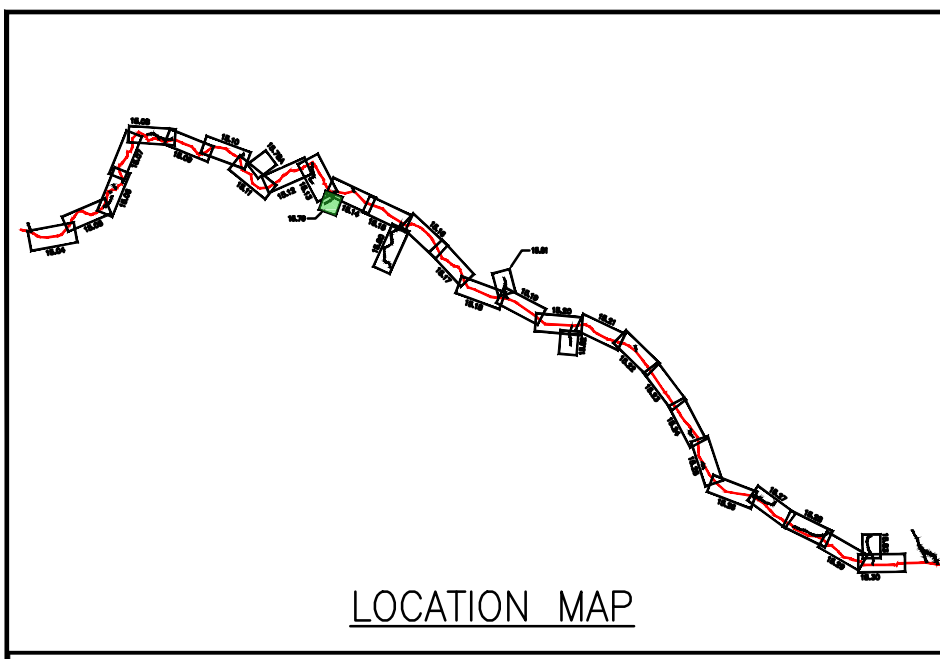
661 ANDERSEN DRIVE
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 PITTSBURGH, PA 15220

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



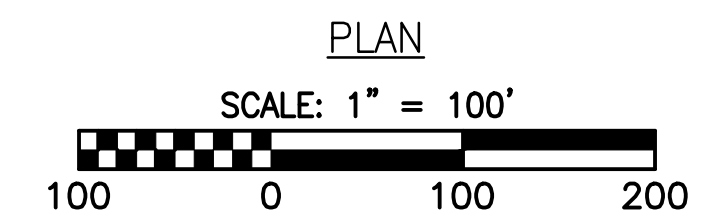
DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.78APC OF	15.93PC

REVISIONS:



LEGEND

- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
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NOTES:

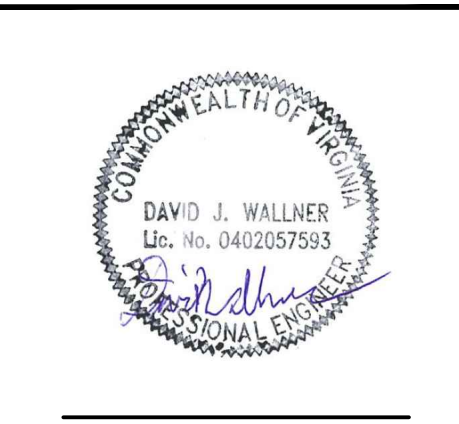
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1	09/11/17	KAL	DW	RE	DW	PLAN SUBMISSION
NO:	DATE:	DWN:	CHKD:	APPD:	DESCRIPTION:	

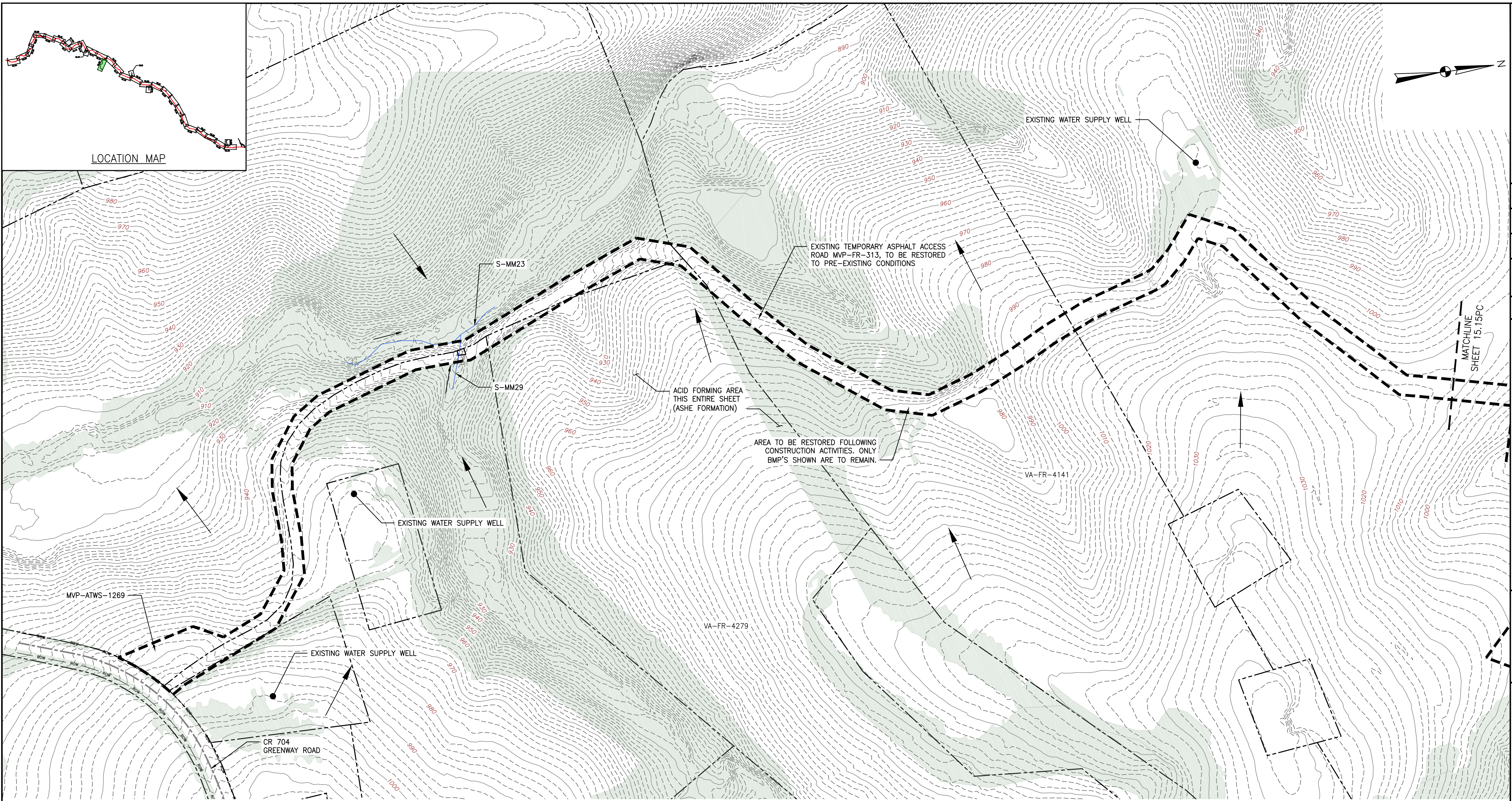
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.79PC OF 15.93PC	



NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
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Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
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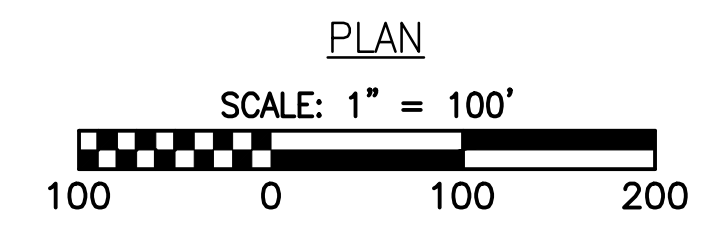
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

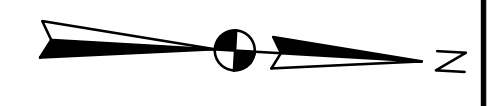
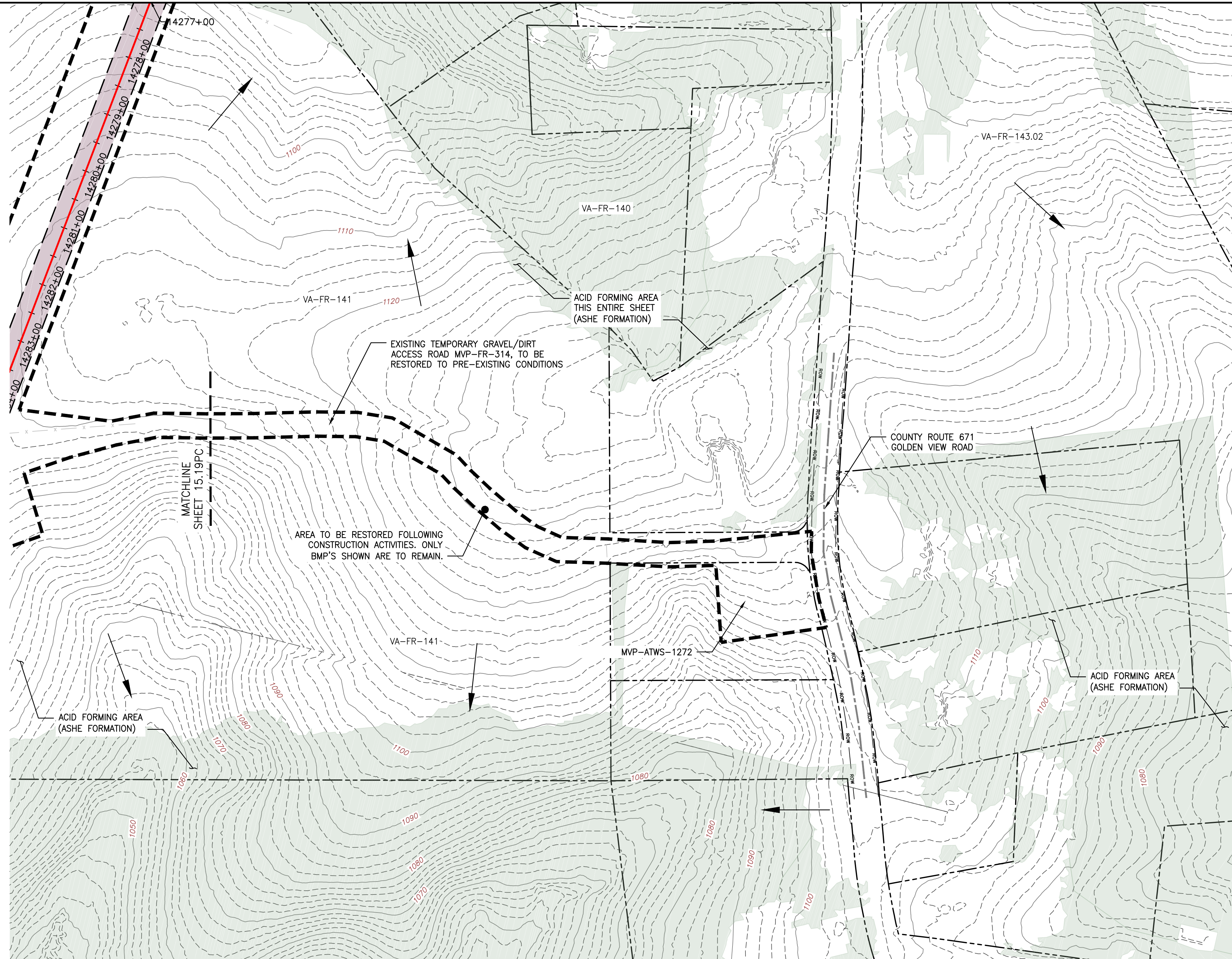
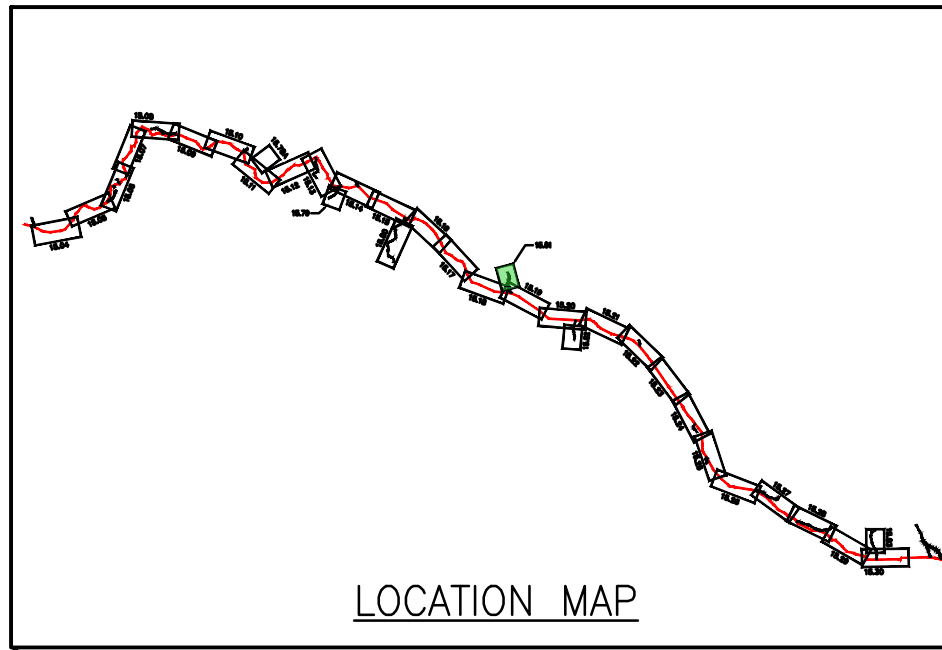
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.80PC OF 15.93PC

- LEGEND**
- EXISTING CULVERT
 - STREAM
 - EXISTING PROPERTY LINE
 - EXISTING STATE LINE
 - EXISTING COUNTY LINE
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 - USDA FOREST SERVICE (NATIONAL FOREST) LANDS
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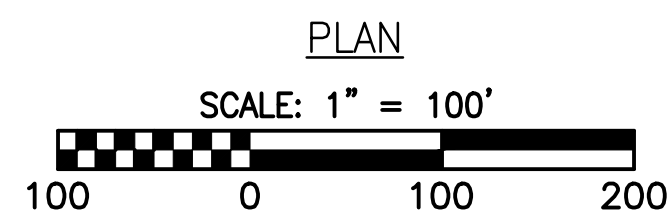


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6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

Mountain Valley Pipeline
PIPELINE

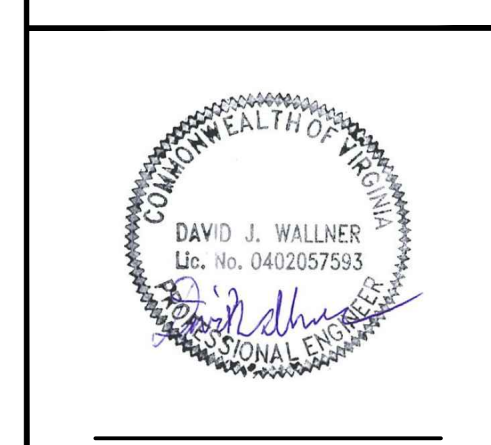
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

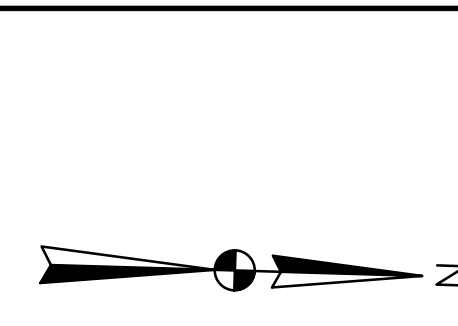
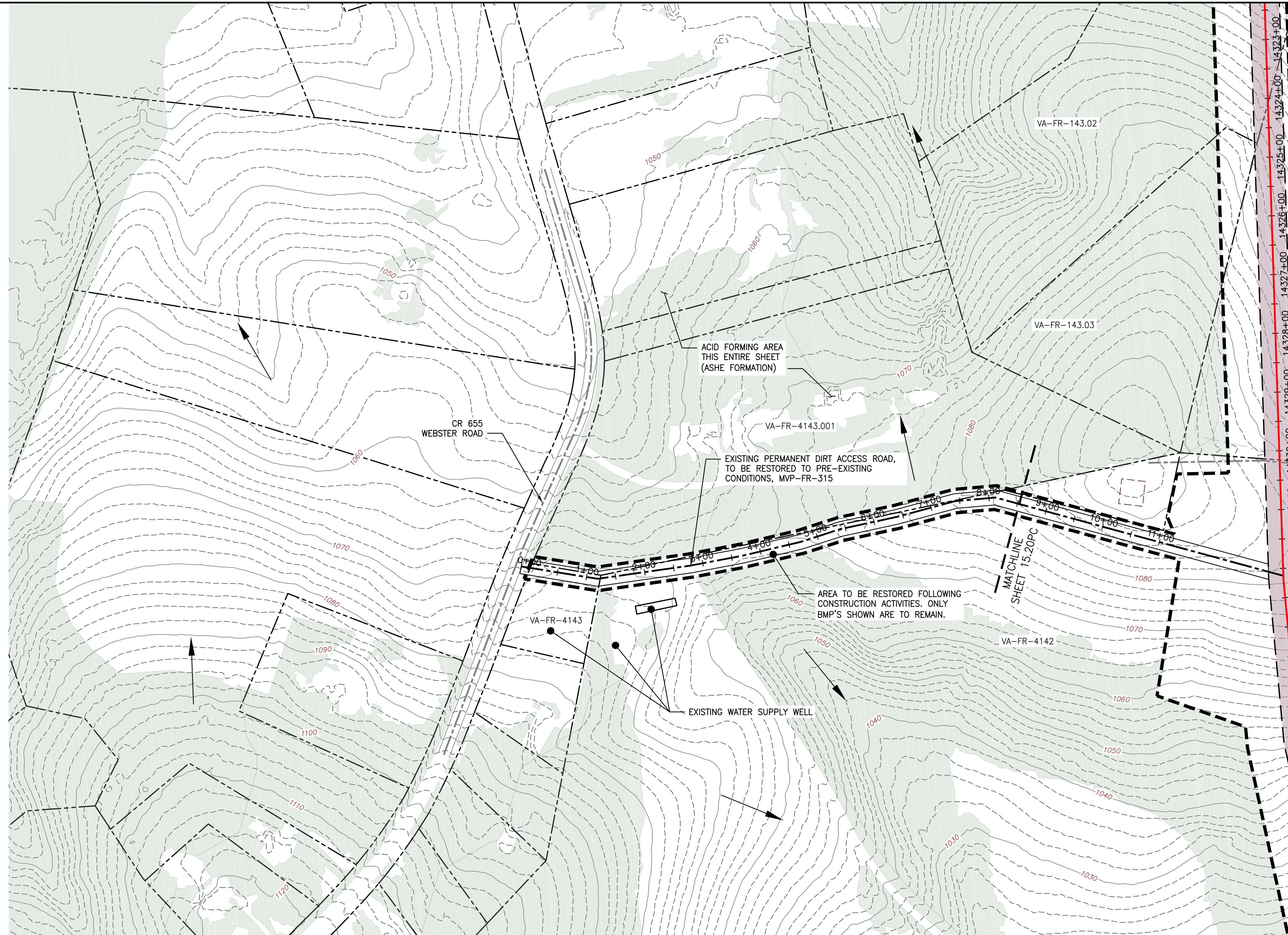
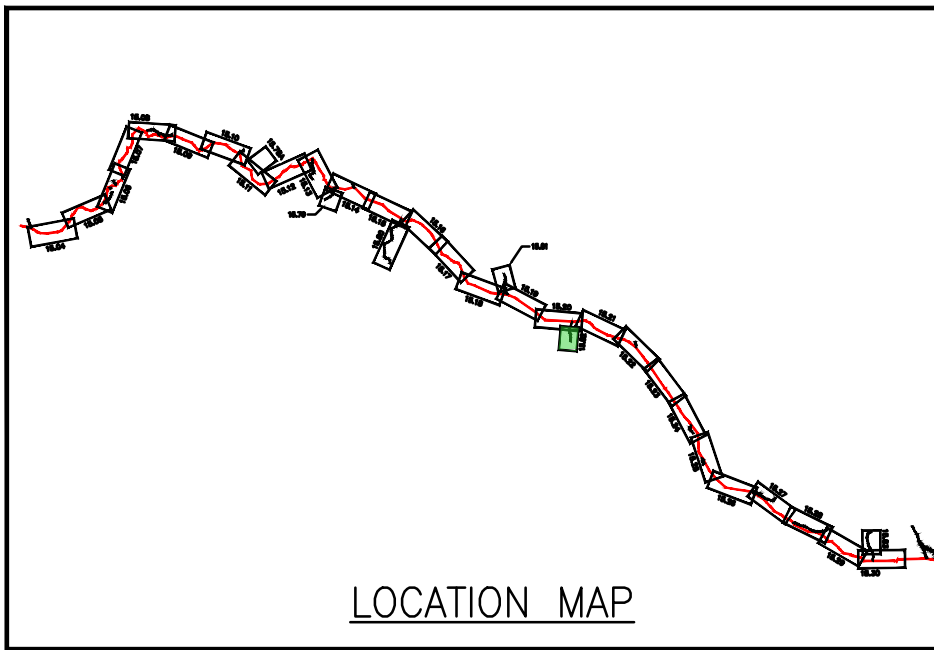
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FOSTER PLAZA 7
PITTSBURGH, PA 15220

**POST CONSTRUCTION
(STORMWATER &
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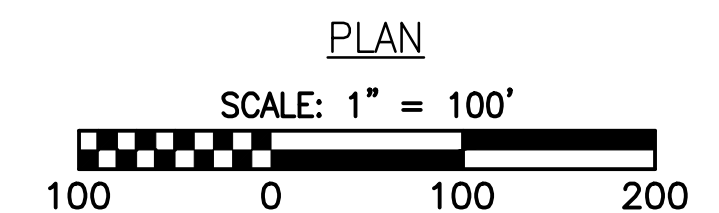


DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.81PC OF 15.93PC	REVISION



LEGEND

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



NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

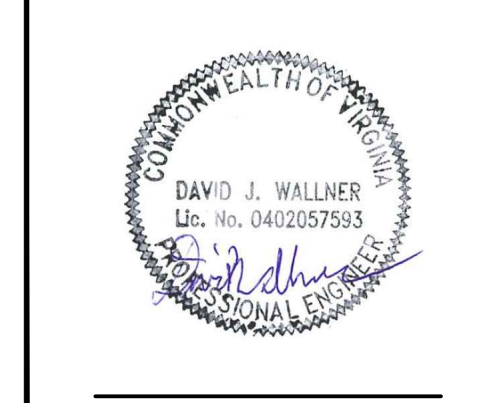
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

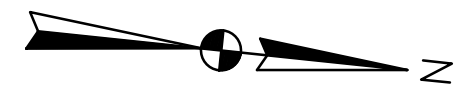
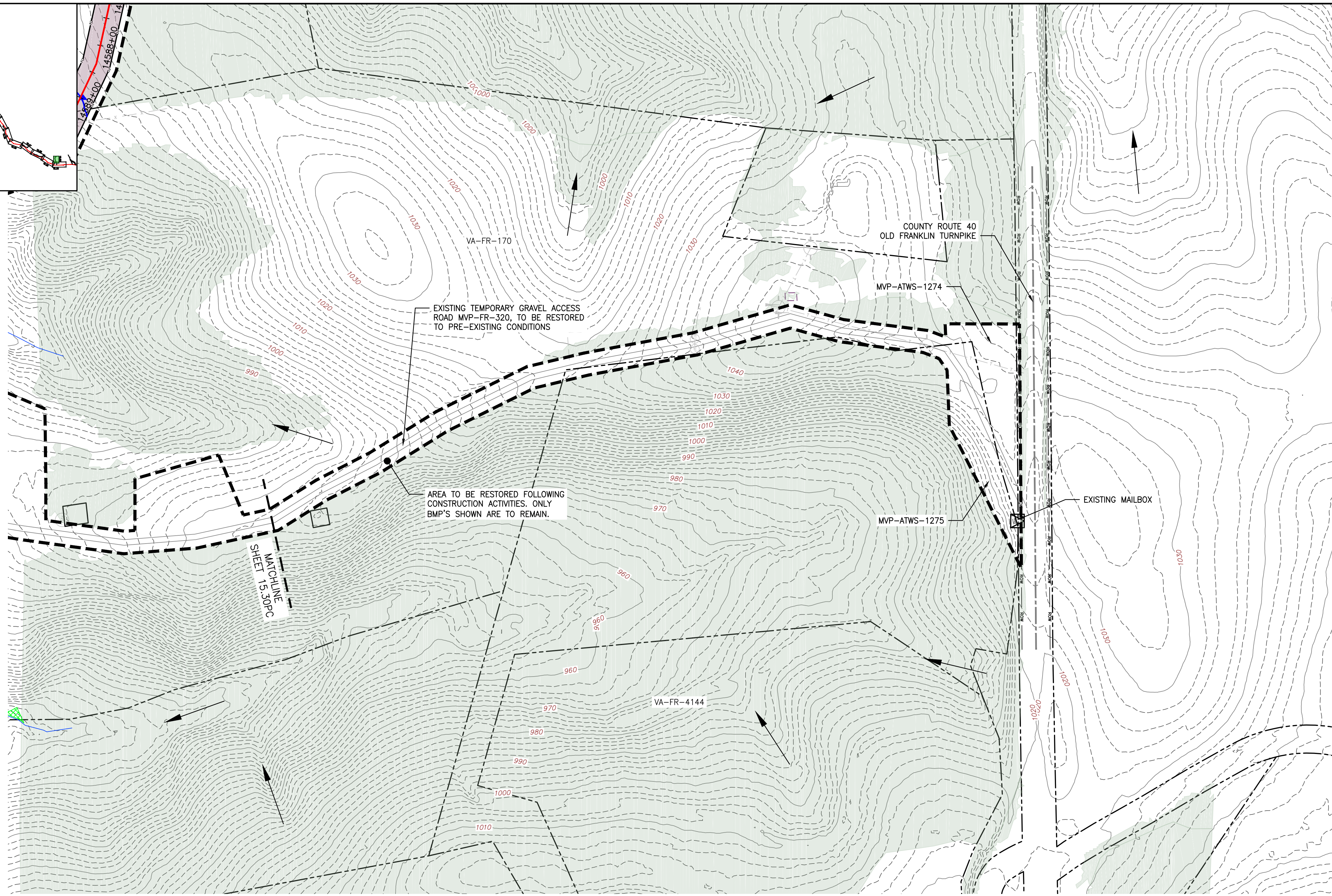
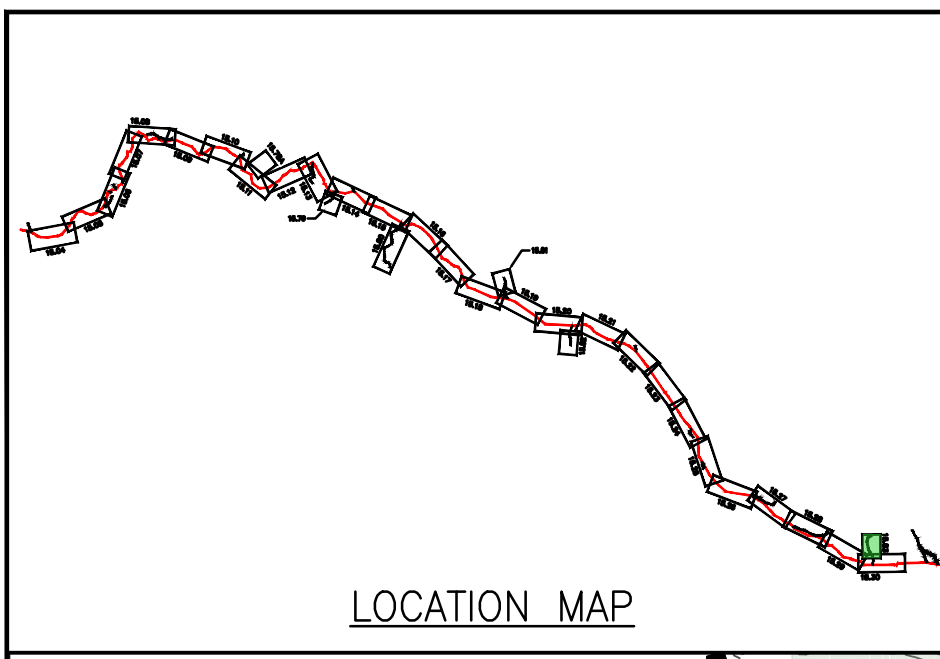
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FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS

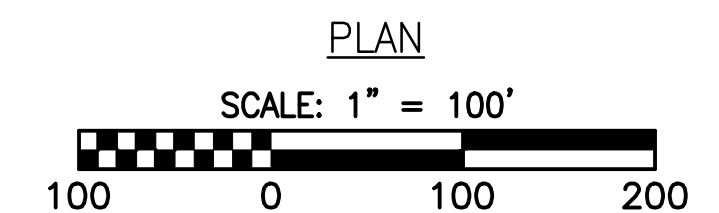


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CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO.	15.82PC OF 15.93PC



LEGEND

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



NOTES:

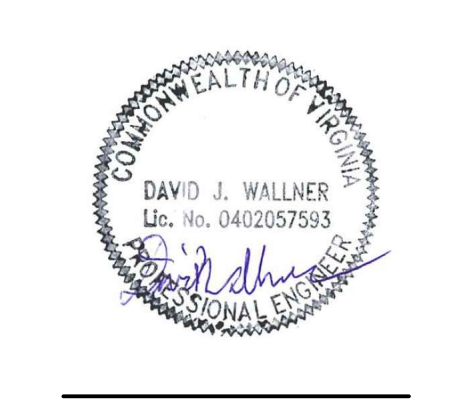
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
2. IN AREAS OF RIDGETOP AS NOTED IN THE TABLE ON THE KEY PLAN OF THIS PLAN SET, WATER BARS WITH END TREATMENT LENGTHS OF 10-FT WILL BE PLACED ON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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

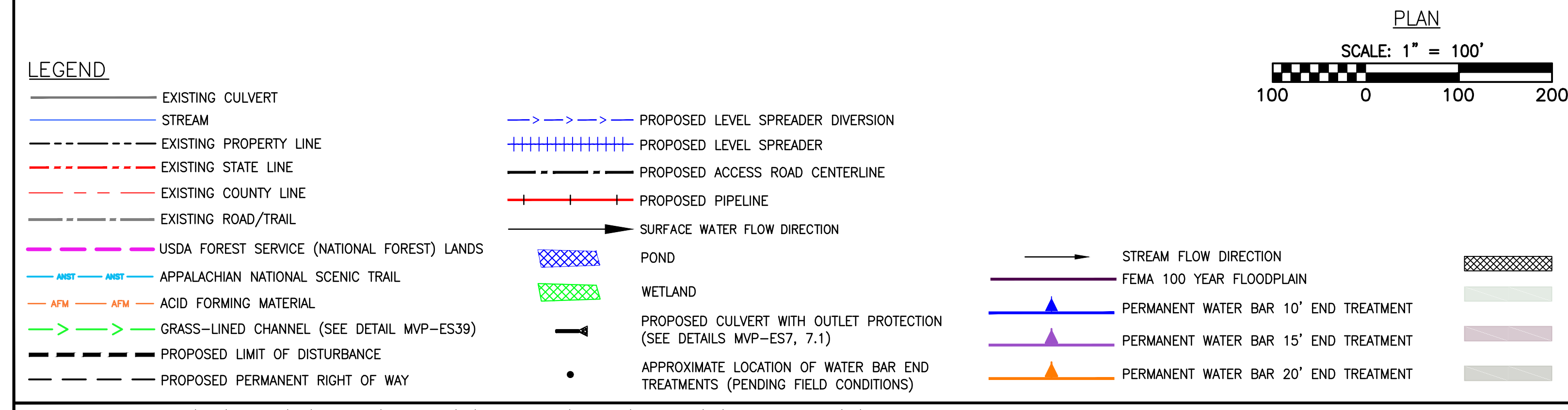
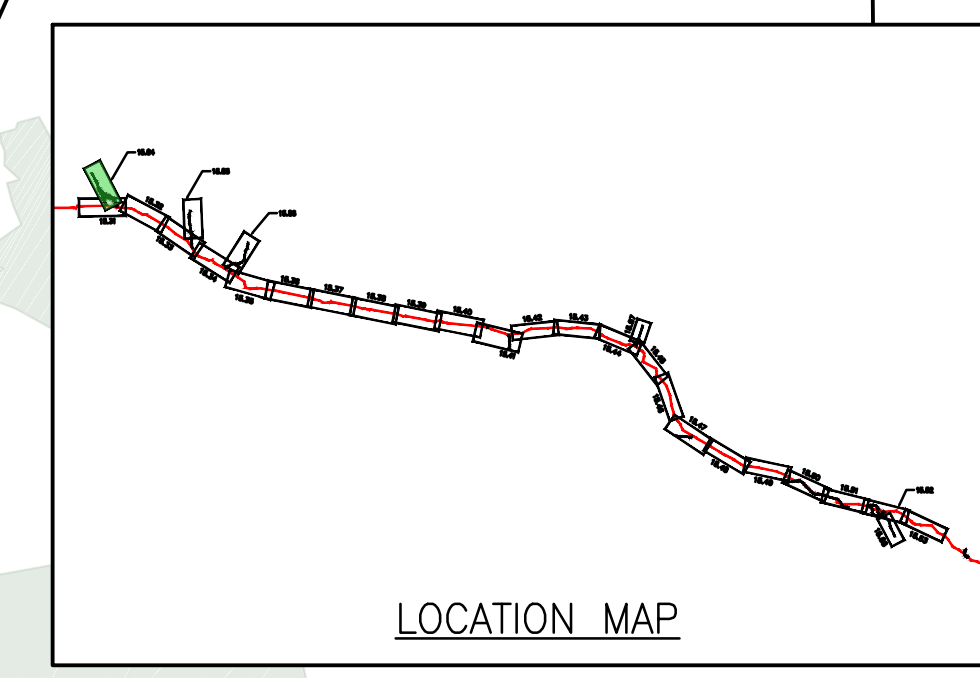
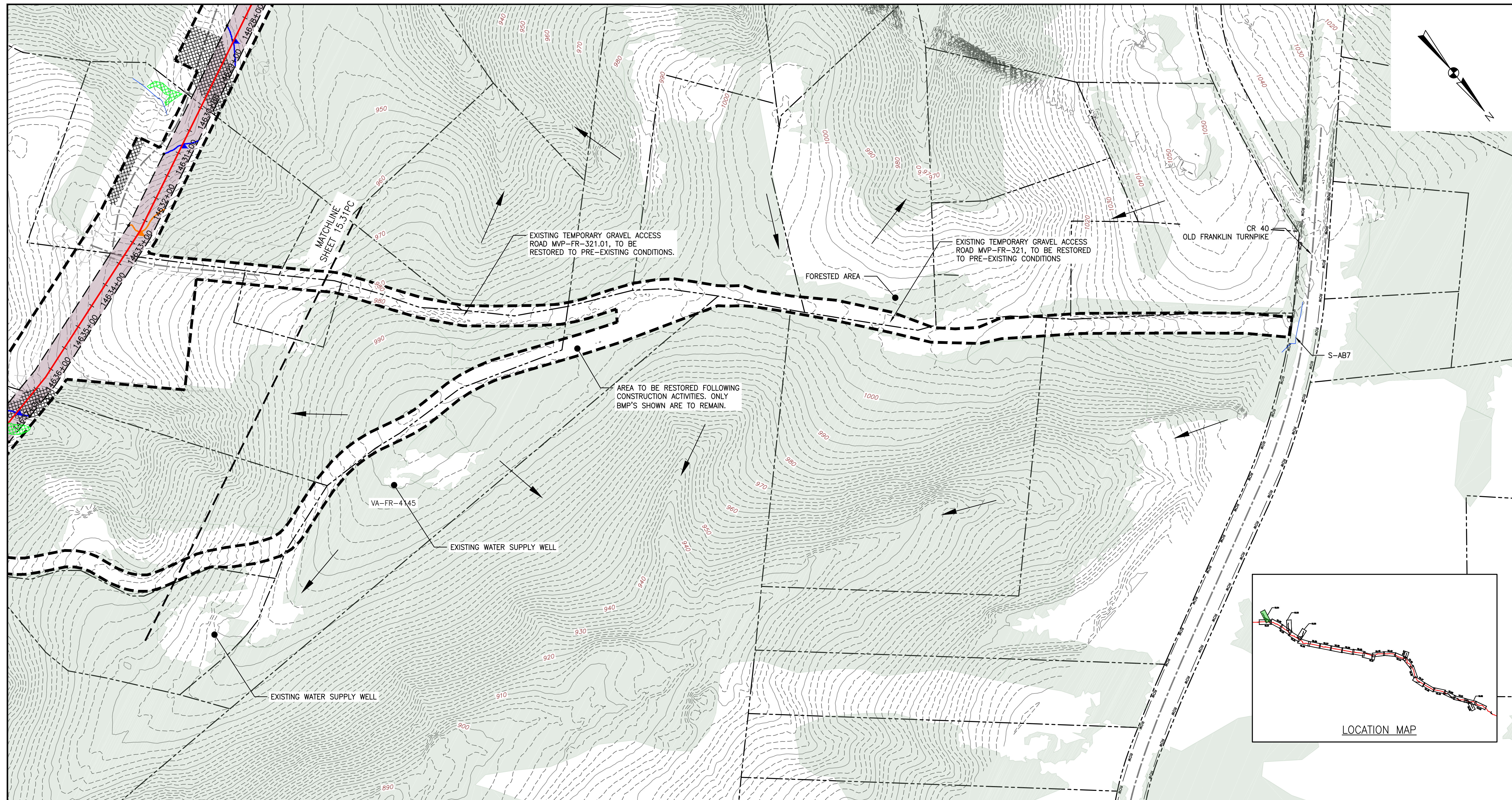
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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**POST CONSTRUCTION
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APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.83PC OF 15.93PC	REVISION



NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

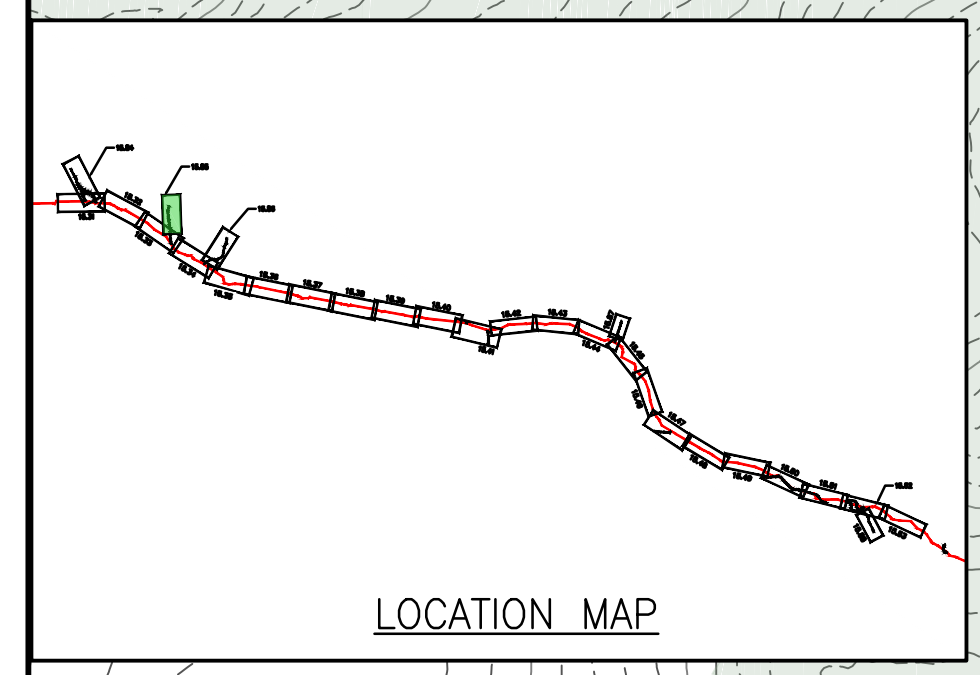
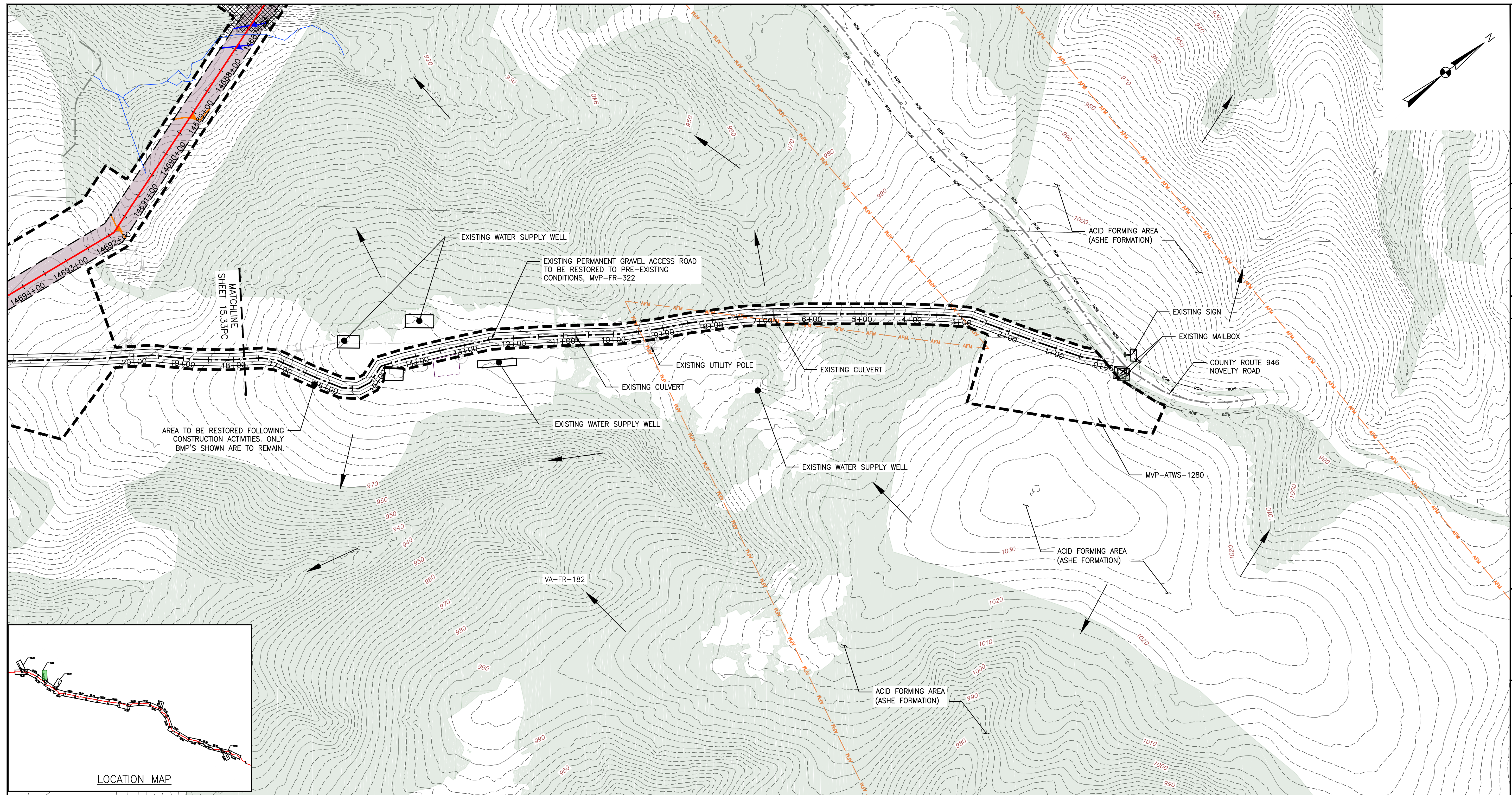
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

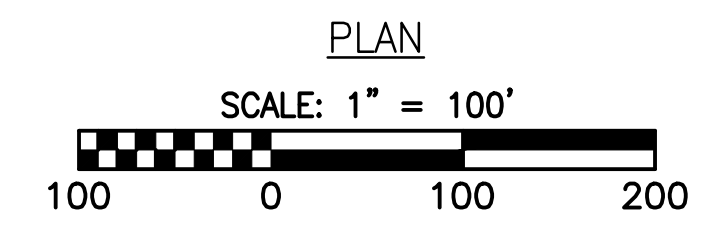
DAVID J. WALLNER
 Lic. No. 0402057593
 PROFESSIONAL ENGINEER

DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.84PC OF 15.93PC	



LEGEND

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



NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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NO.	DATE	DWN.:	CHKD.:	APPD.:	DESCRIPTION:
6	03/21/18	KAL	RE	DW	ADDRESS VADED COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VADED COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VADED COMMENTS
3	02/20/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VADED COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

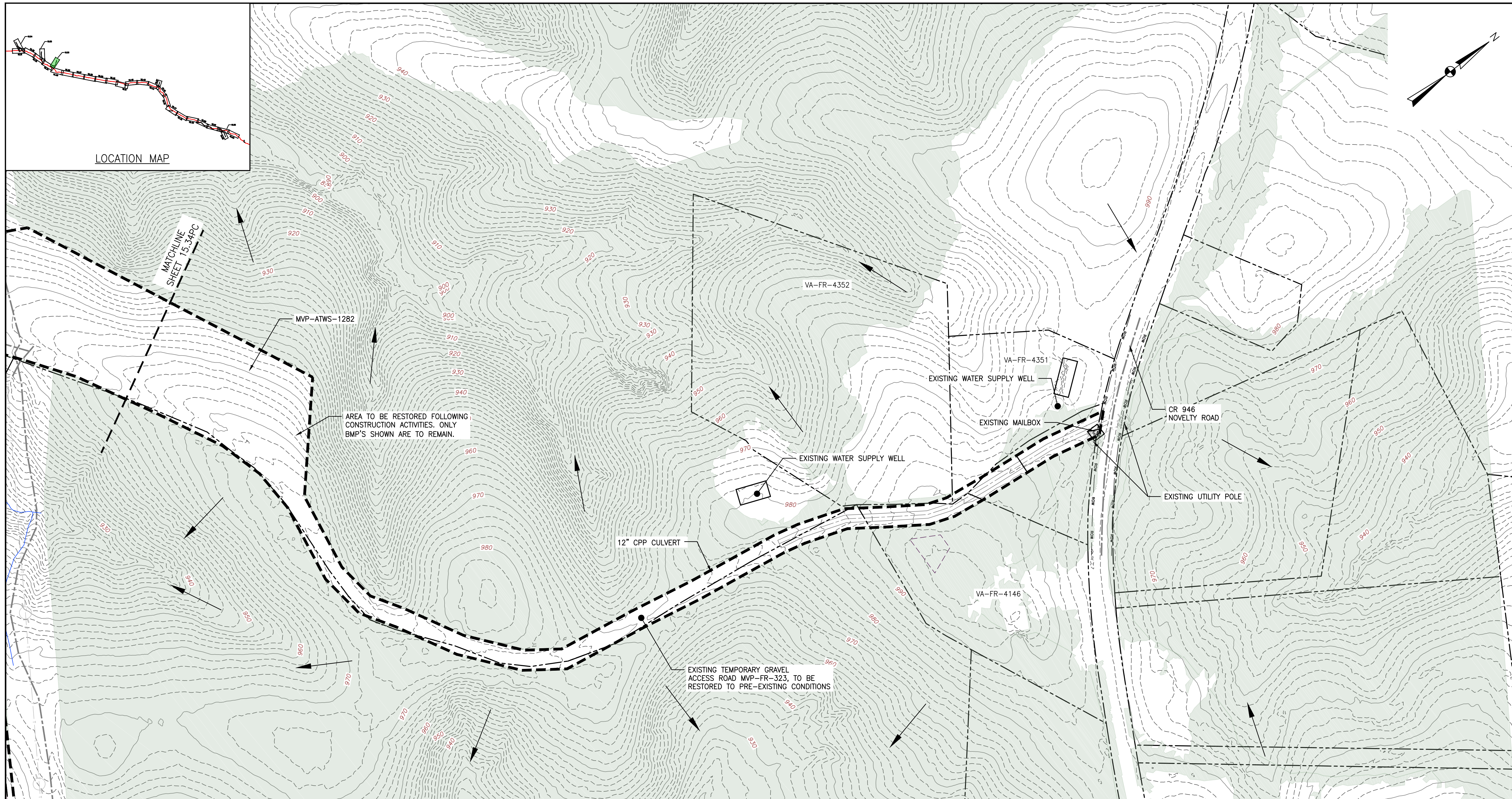
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POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

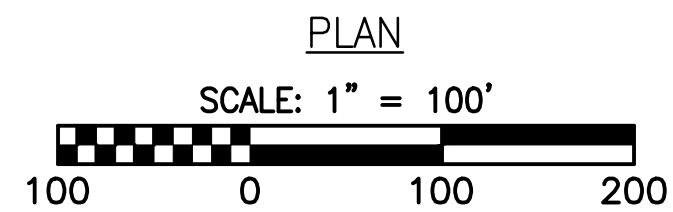
COMMISSIONER OF ENVIRONMENTAL PROTECTION
 DAVID J. WALLNER
 Lic. No. 0402057593

DRAWN BY: KAL
 CHECKED BY: HT
 APPROVED BY: RE
 DATE: 03/21/2018
 SCALE: AS SHOWN
 SHT. NO. 15.85PC OF 15.93PC



LEGEND

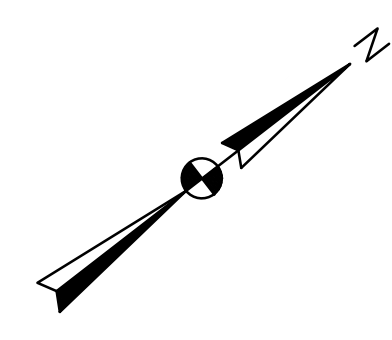
- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- - - EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- - - PROPOSED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



NOTES:

1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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LOCATION MAP



NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

Mountain Valley PIPELINE

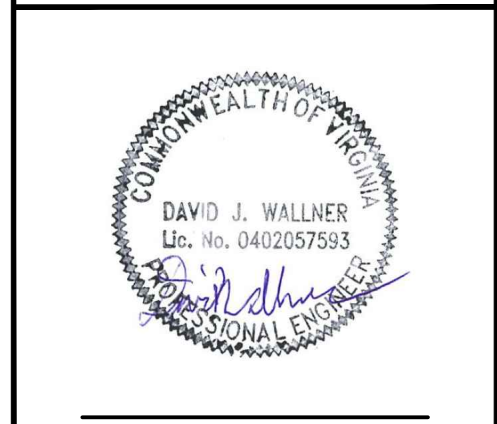
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - FRANKLIN COUNTY, VIRGINIA

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

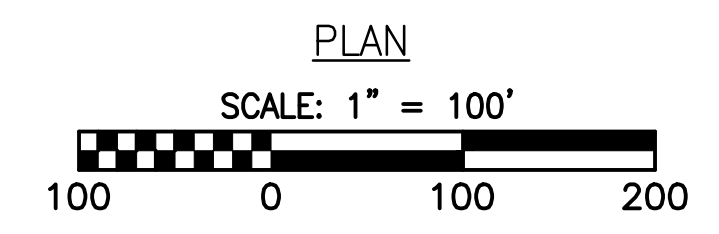
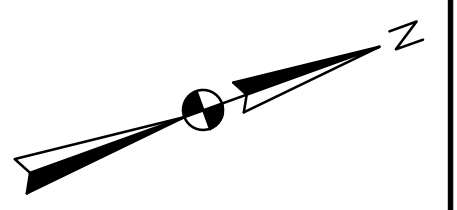
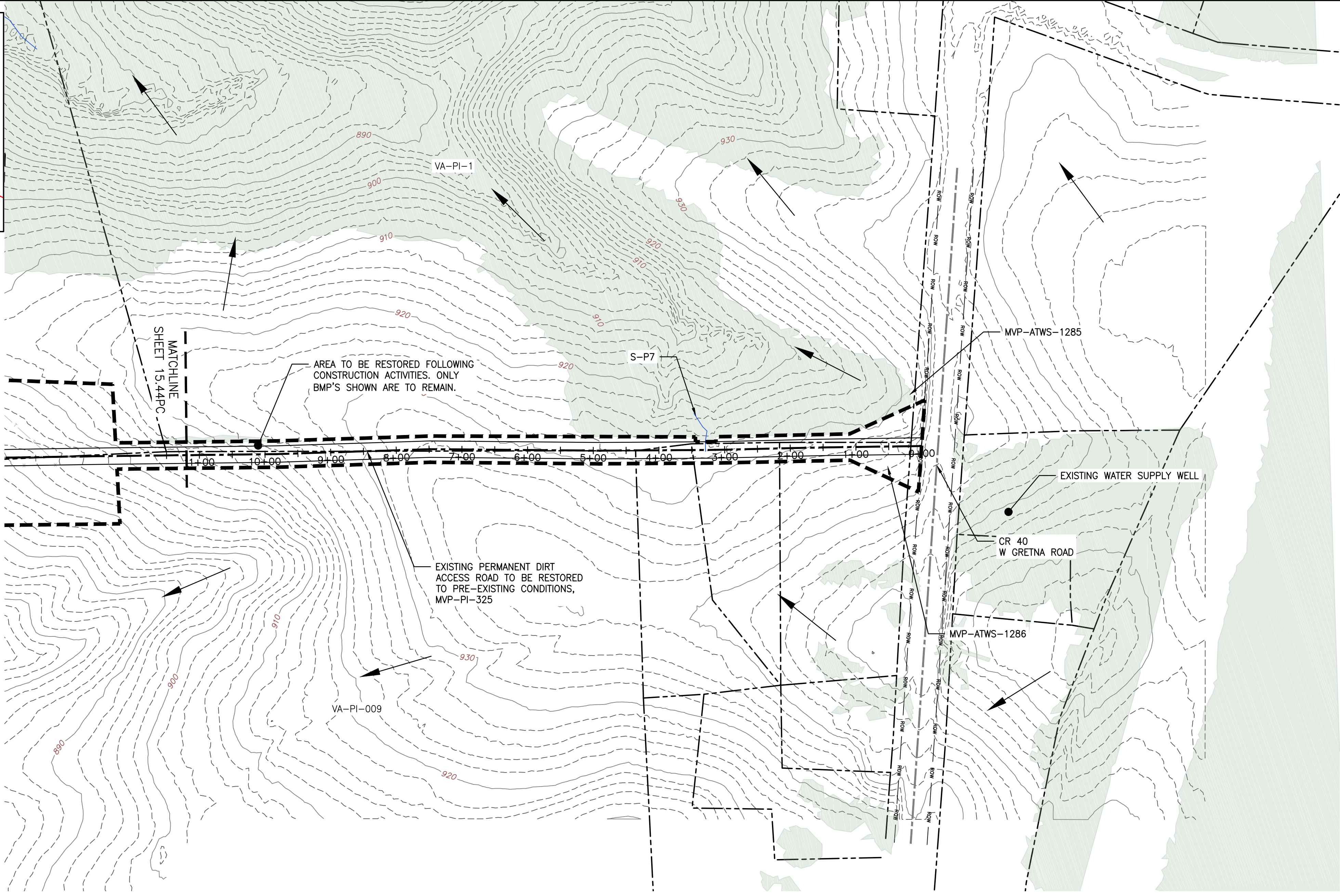
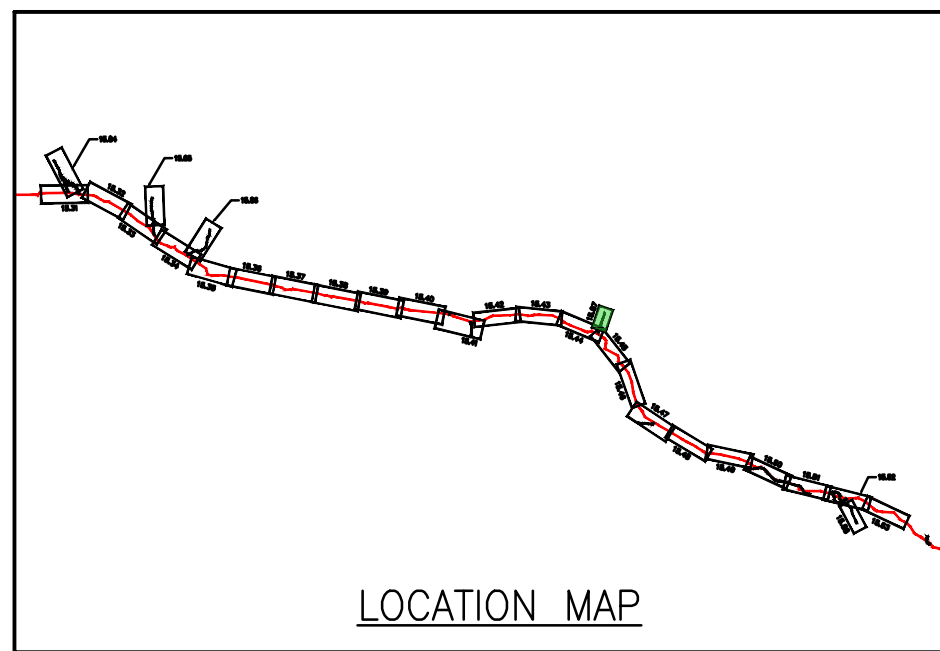
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POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS



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APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.86PC OF 15.93PC	



LEGEND

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

NOTES:

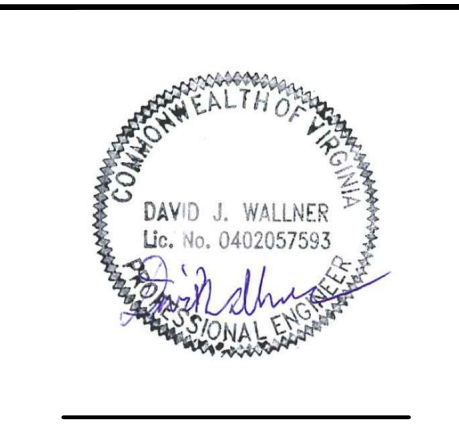
1. NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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6	03/21/18	KAL	RE	DW	ADDRESS VABEQ COMMENTS
5	03/16/18	KAL	RE	DW	ADDRESS VABEQ COMMENTS
4	03/04/18	KAL	RE	DW	ADDRESS VABEQ COMMENTS
3	02/20/18	KAL	RE	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	RE	DW	ADDRESS VABEQ COMMENTS
1	09/11/17	KAL	RE	DW	PLAN SUBMISSION
NO:	DATE:	DWN.:	CHKD.:	APPD.:	DESCRIPTION:

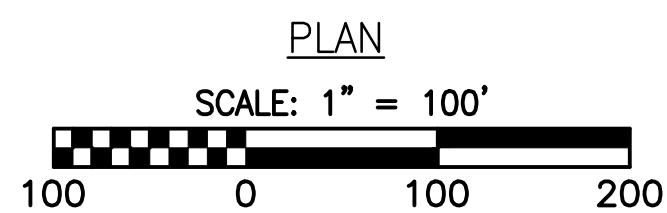
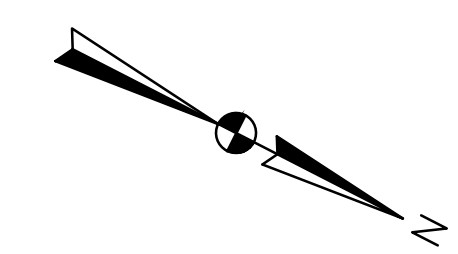
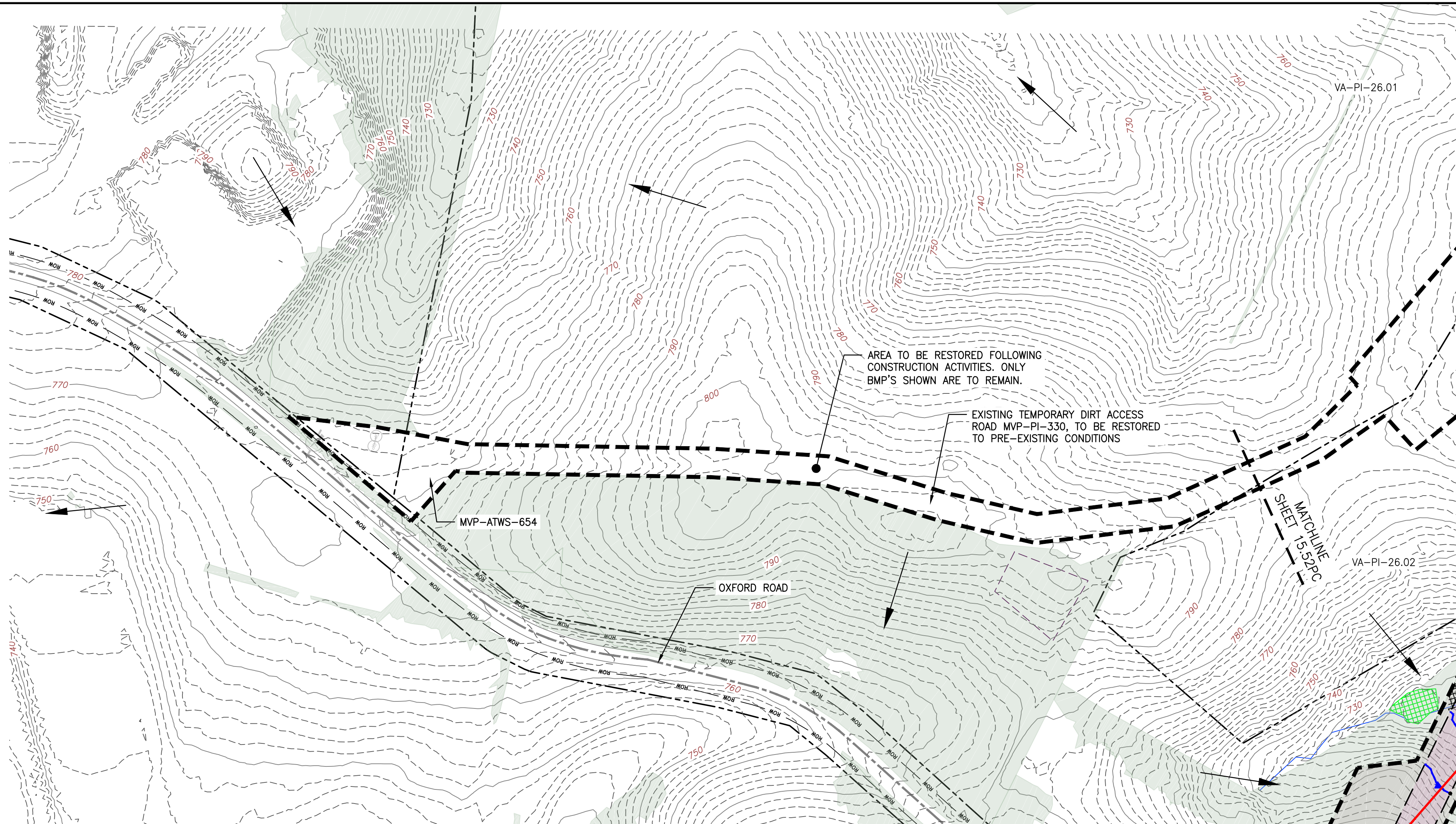
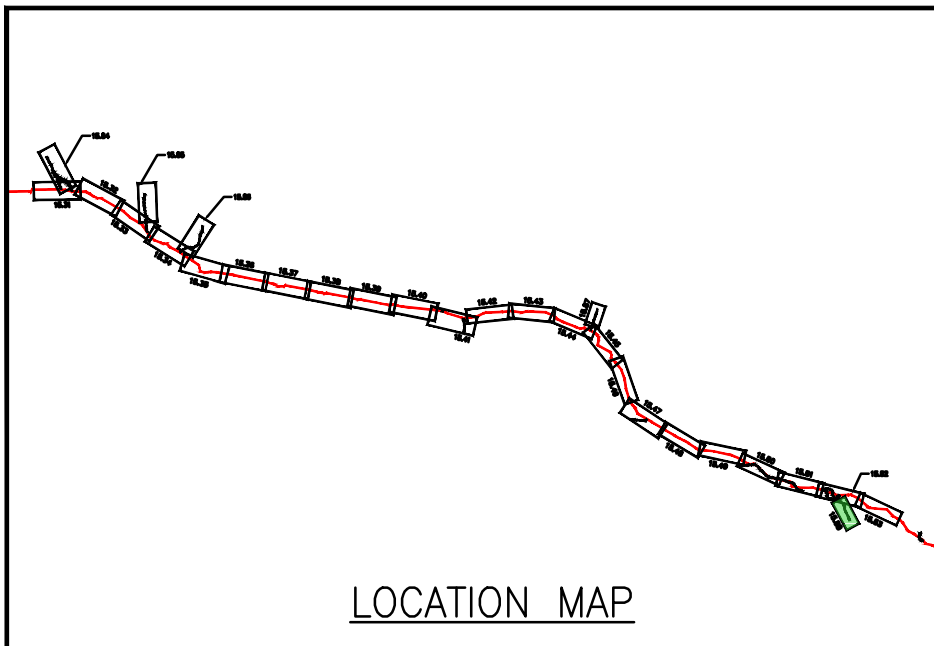
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
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POST CONSTRUCTION
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DRAWN BY:	KAL
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APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.87PC OF	15.93PC



LEGEND

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

NOTES:

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

NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VABEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VABEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VABEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VABEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

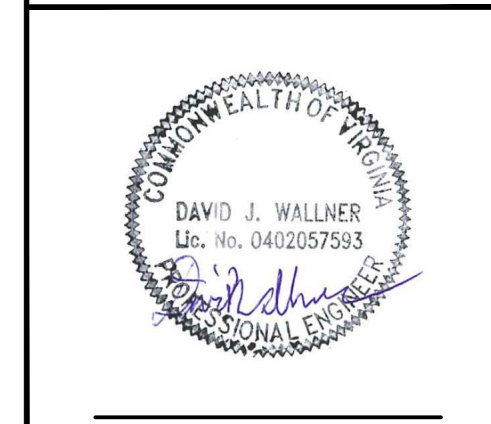
REVISIONS:

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

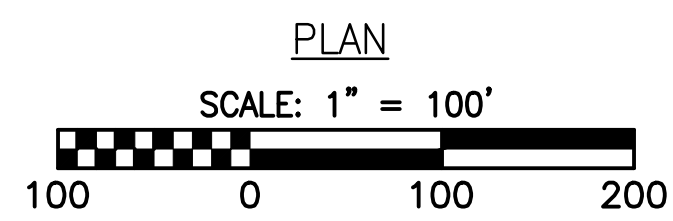
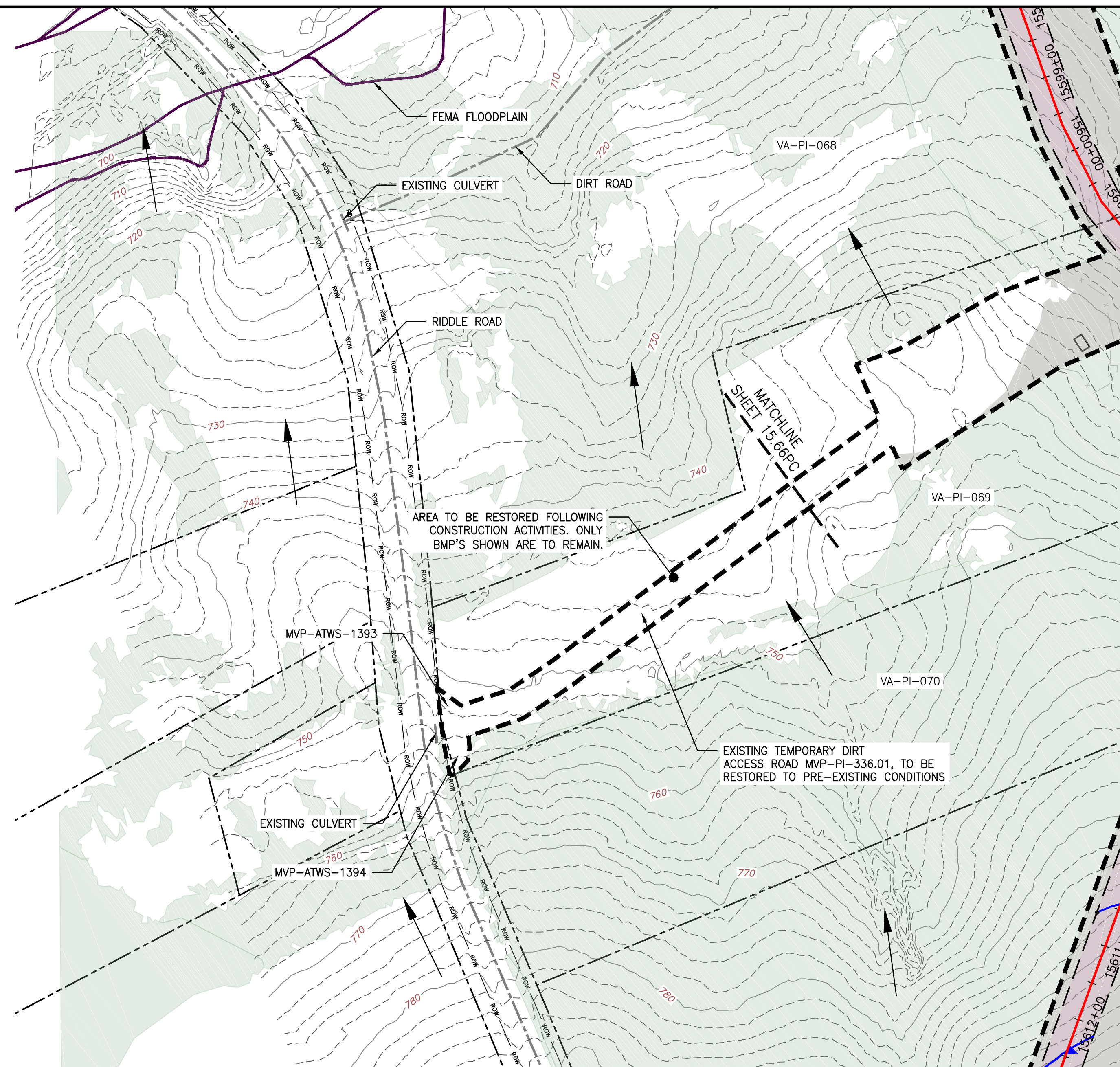
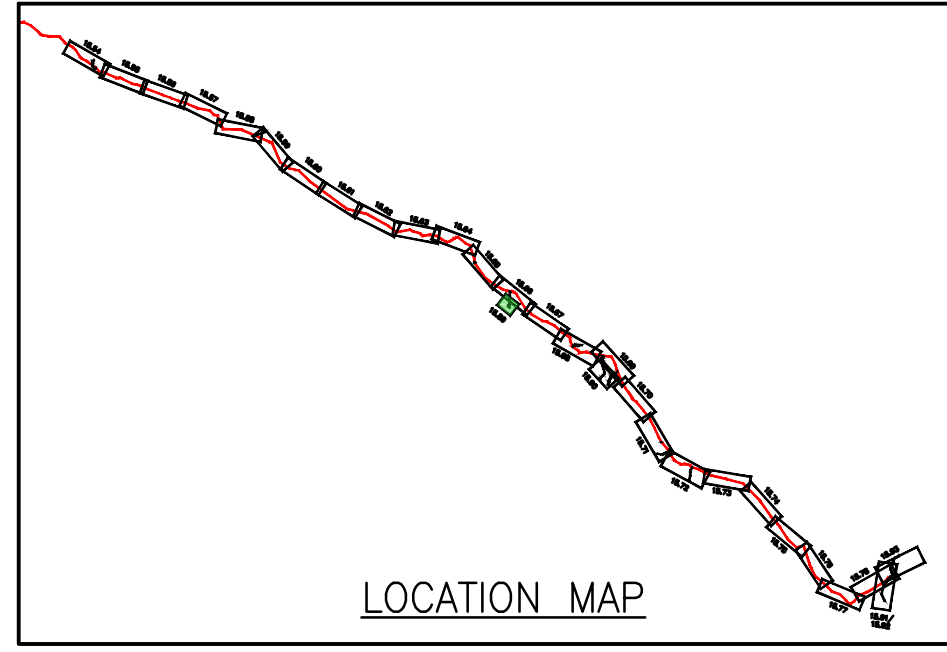
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661 ANDERSEN DRIVE
 FOSTER PLAZA 7
 PITTSBURGH, PA 15220

POST CONSTRUCTION
 (STORMWATER &
 RESTORATION) PLANS

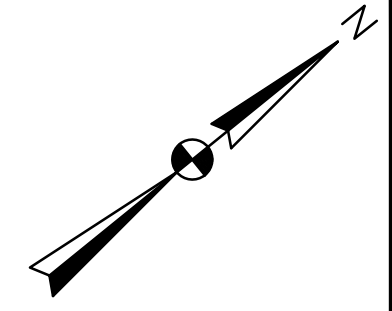


DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.88PC OF	15.93PC



LEGEND

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



NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

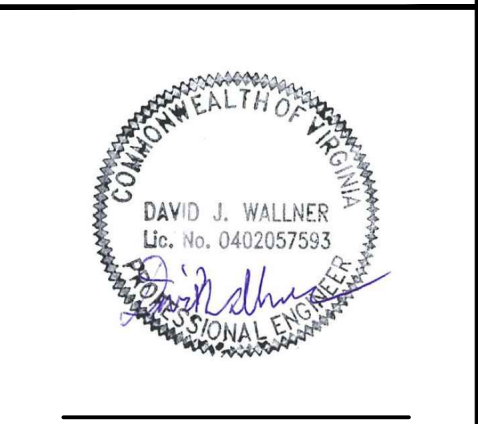
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA

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

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 PITTSBURGH, PA 15220

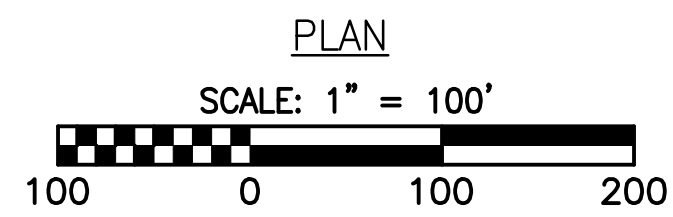
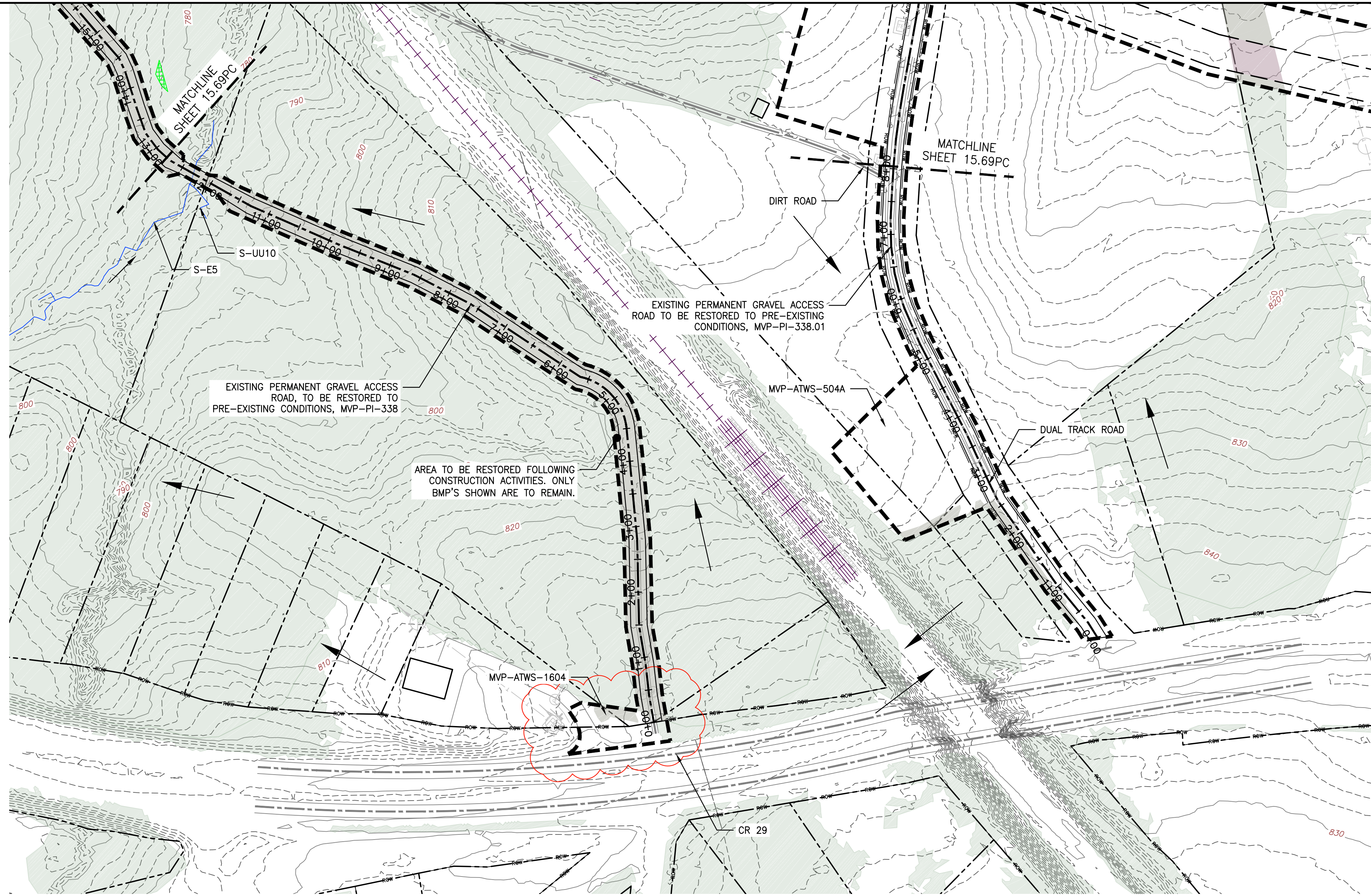
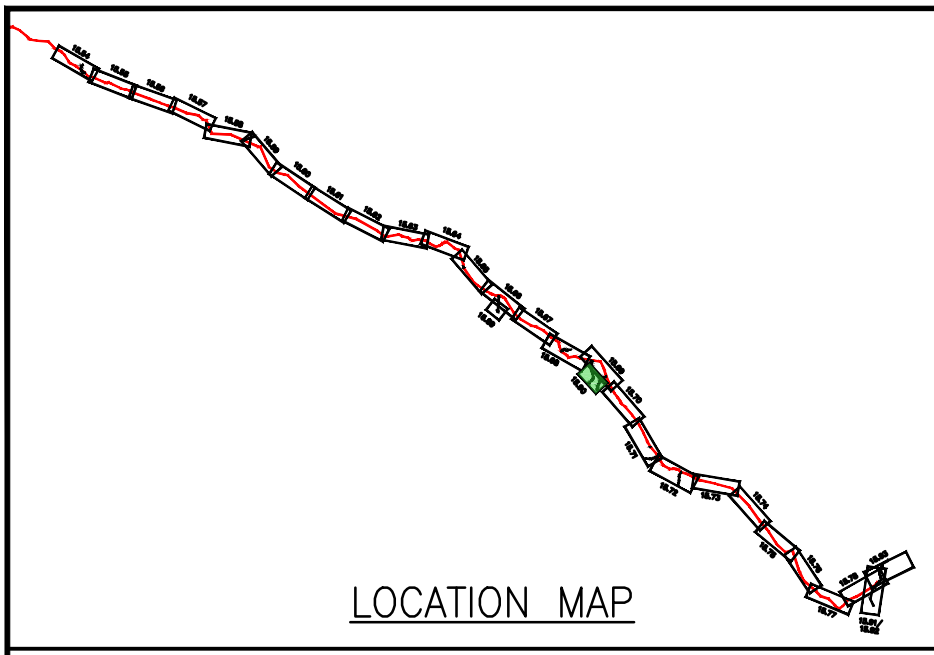
POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.89PC OF	15.93PC

NOTES:

- NOTE THAT ALL WATER BARS REGARDLESS OF SPECIFIED CALCULATION LENGTH ARE TO BE INSTALLED WITH 20-FT END TREATMENT LENGTHS, EXCEPT AS NOTED IN NOTE 2 BELOW.
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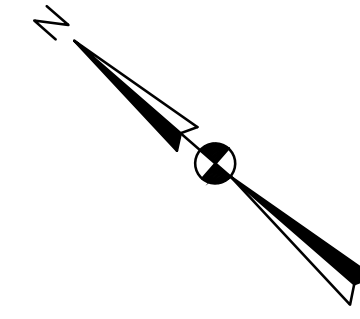


LEGEND

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

NOTES:

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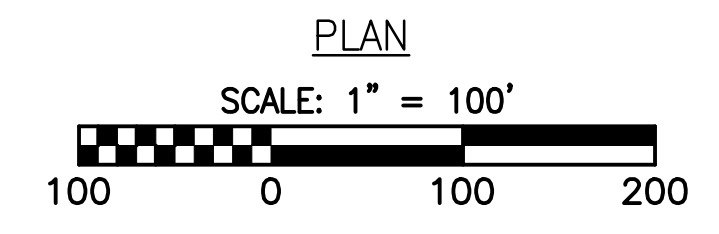
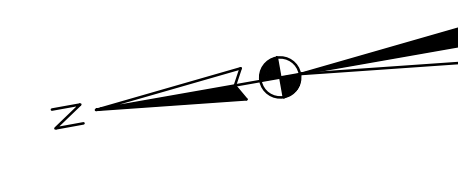
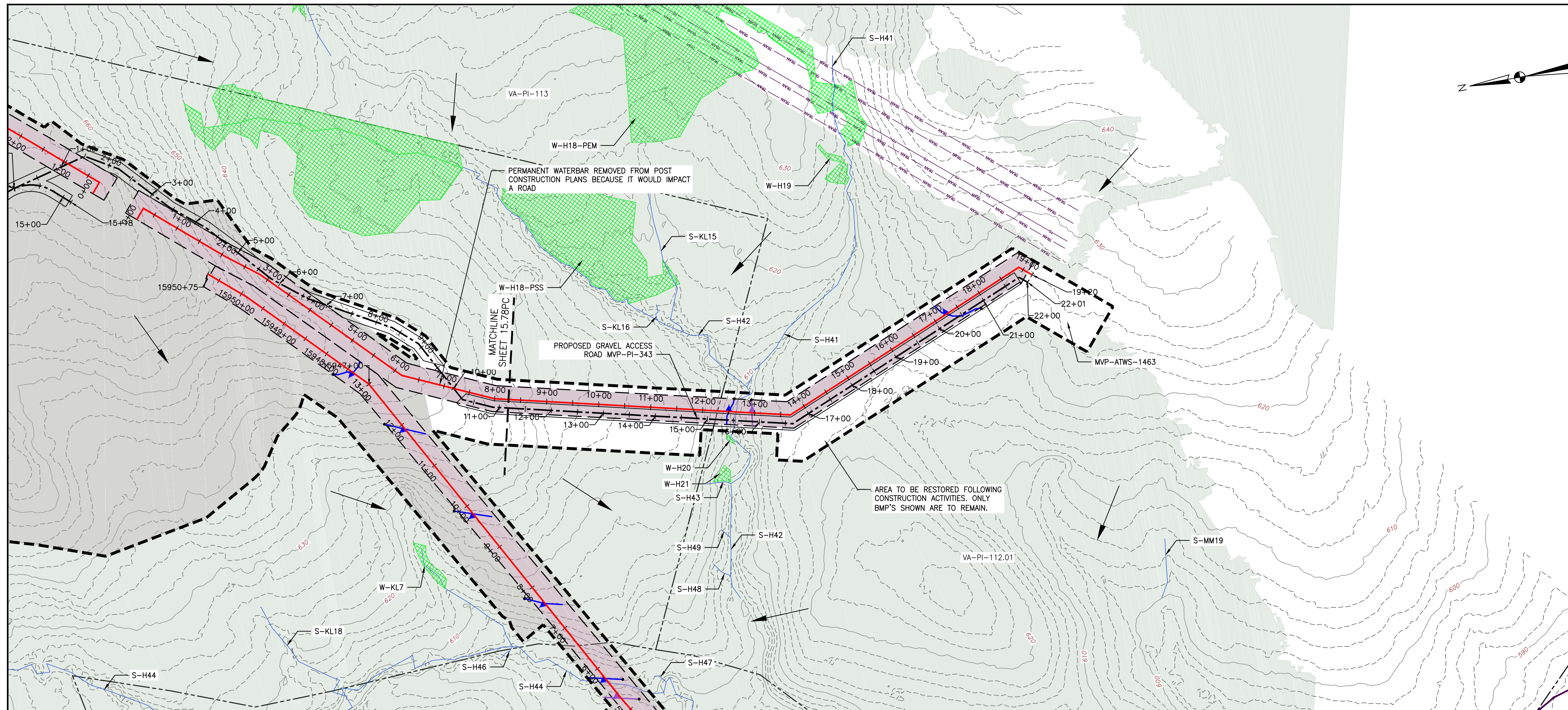
NO.	DATE	CHKD.	APPD.	DESCRIPTION
7	12/14/18	KAL	DW	FIELD MODIFICATIONS
6	03/21/18	KAL	DW	ADDRESS VADEQ COMMENTS
5	03/16/18	KAL	DW	ADDRESS VADEQ COMMENTS
4	03/04/18	KAL	DW	ADDRESS VADEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VADEQ COMMENTS

POST CONSTRUCTION (STORMWATER & RESTORATION) 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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 PITTSBURGH, PA 15220

**POST CONSTRUCTION
(STORMWATER &
RESTORATION) PLANS**

DRAWN BY:	JWK
CHECKED BY:	RE
APPROVED BY:	DW
DATE:	12/14/2018
SCALE:	AS SHOWN
SHT. NO. 15.90PC OF	15.93PC



LEGEND

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

NOTES:

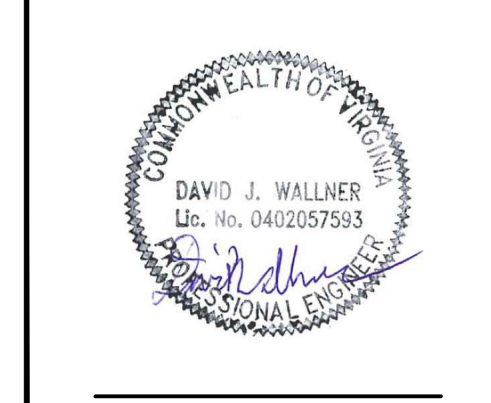
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NO.	DATE	CHKD.	APPD.	DESCRIPTION
6	03/21/18	KAL	DW	ADDRESS VABEQ COMMENTS
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4	03/04/18	KAL	DW	ADDRESS VABEQ COMMENTS
3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VABEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

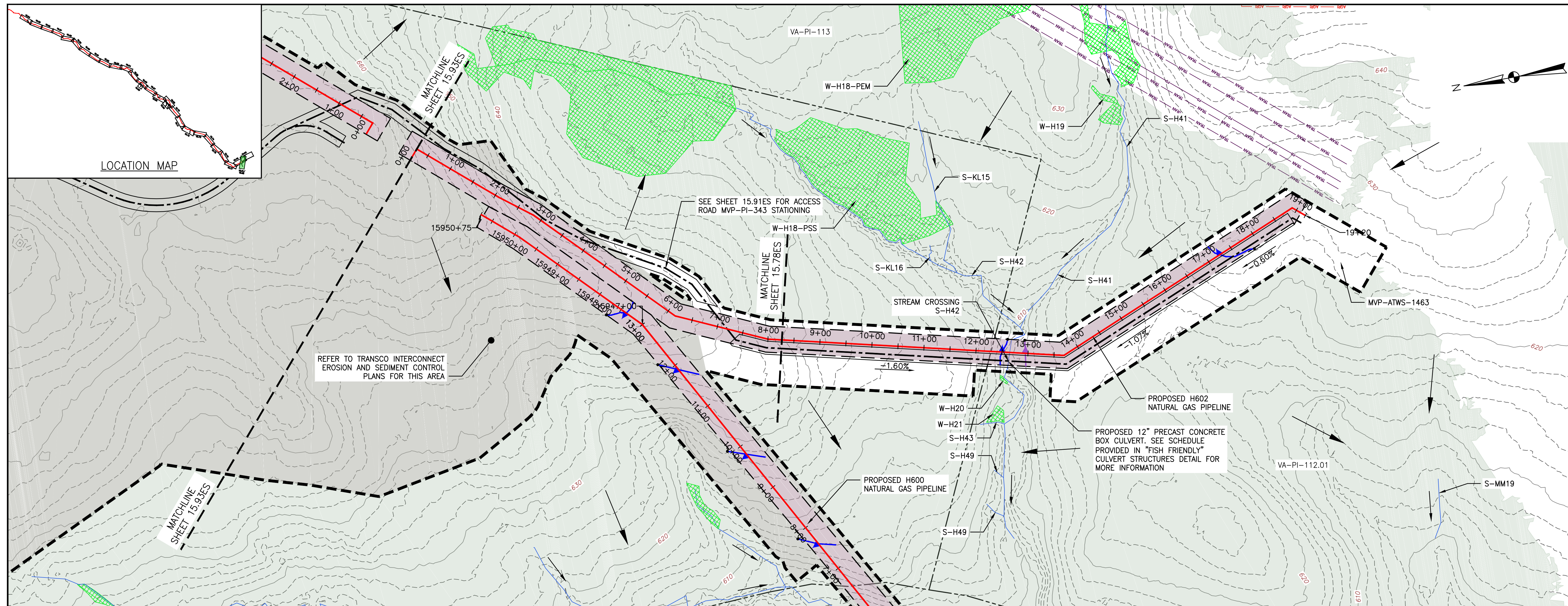
Mountain Valley Pipeline
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H600 LINE
 SPREAD 11 - PITTSYLVANIA COUNTY, VIRGINIA
MOUNTAIN VALLEY PIPELINE, LLC
 555 SOUTHPOINTE BOULEVARD, SUITE 200
 CANONSBURG, PA 15317

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 PITTSBURGH, PA 15220

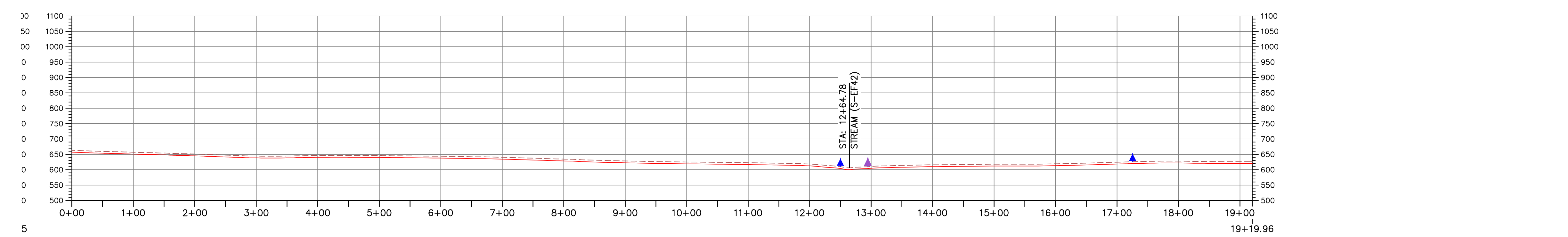
POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS



DRAWN BY:	KAL
CHECKED BY:	HT
APPROVED BY:	RE
DATE:	03/21/2018
SCALE:	AS SHOWN
SHT. NO. 15.91PC OF	15.93PC



PLAN
SCALE: 1" = 100'



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

- LEGEND**
- EXISTING CULVERT
 - STREAM
 - - - EXISTING PROPERTY LINE
 - - - EXISTING STATE LINE
 - - - EXISTING COUNTY LINE
 - - - EXISTING ROAD/TRAIL
 - USDA FOREST SERVICE (NATIONAL FOREST) LANDS
 - APPALACHIAN NATIONAL SCENIC TRAIL
 - ACID FORMING MATERIAL
 - GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
 - - - PROPOSED LIMIT OF DISTURBANCE
 - - - PROPOSED PERMANENT RIGHT OF WAY
 - PROPOSED LEVEL SPREADER DIVERSION
 - PROPOSED LEVEL SPREADER
 - PROPOSED ACCESS ROAD CENTERLINE
 - PROPOSED PIPELINE
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 - POND
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NOTES:

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NO.	DATE	CHKD.	DWN.	APPD.	DESCRIPTION
6	03/21/18	KAL			ADDRESS VADQ COMMENTS
5	03/16/18	KAL			ADDRESS VADQ COMMENTS
4	03/04/18	KAL			ADDRESS VADQ COMMENTS
3	02/20/18	KAL			RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL			ADDRESS VADQ COMMENTS
1	09/11/17	KAL			PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H602 LINE
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

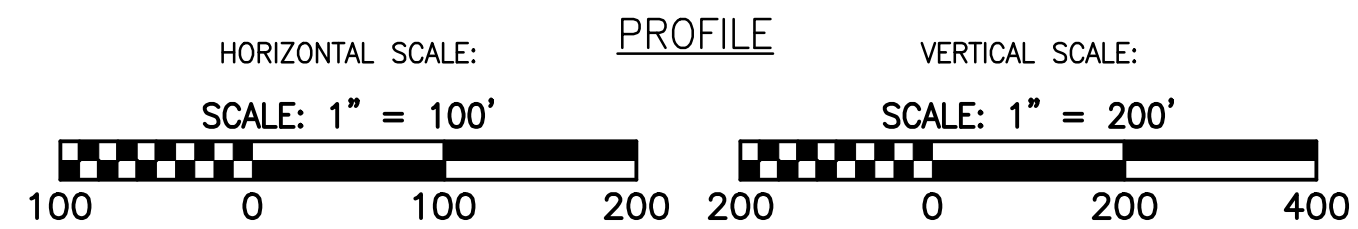
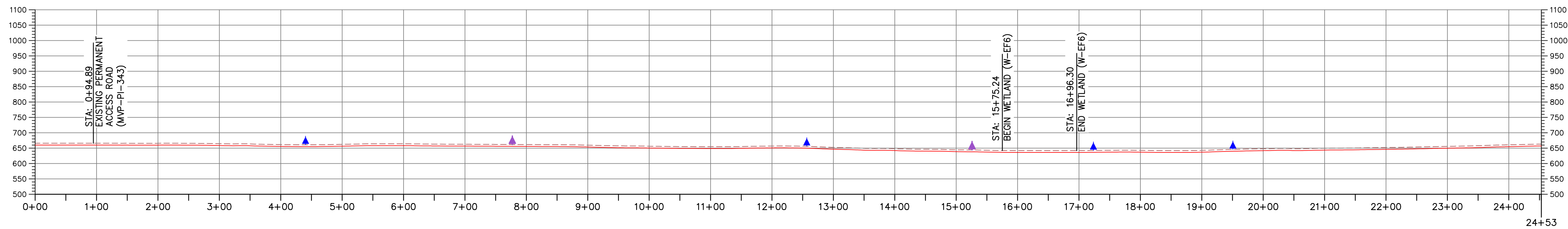
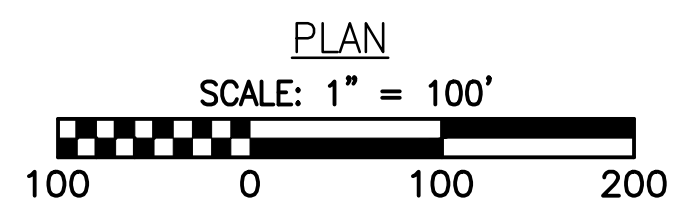
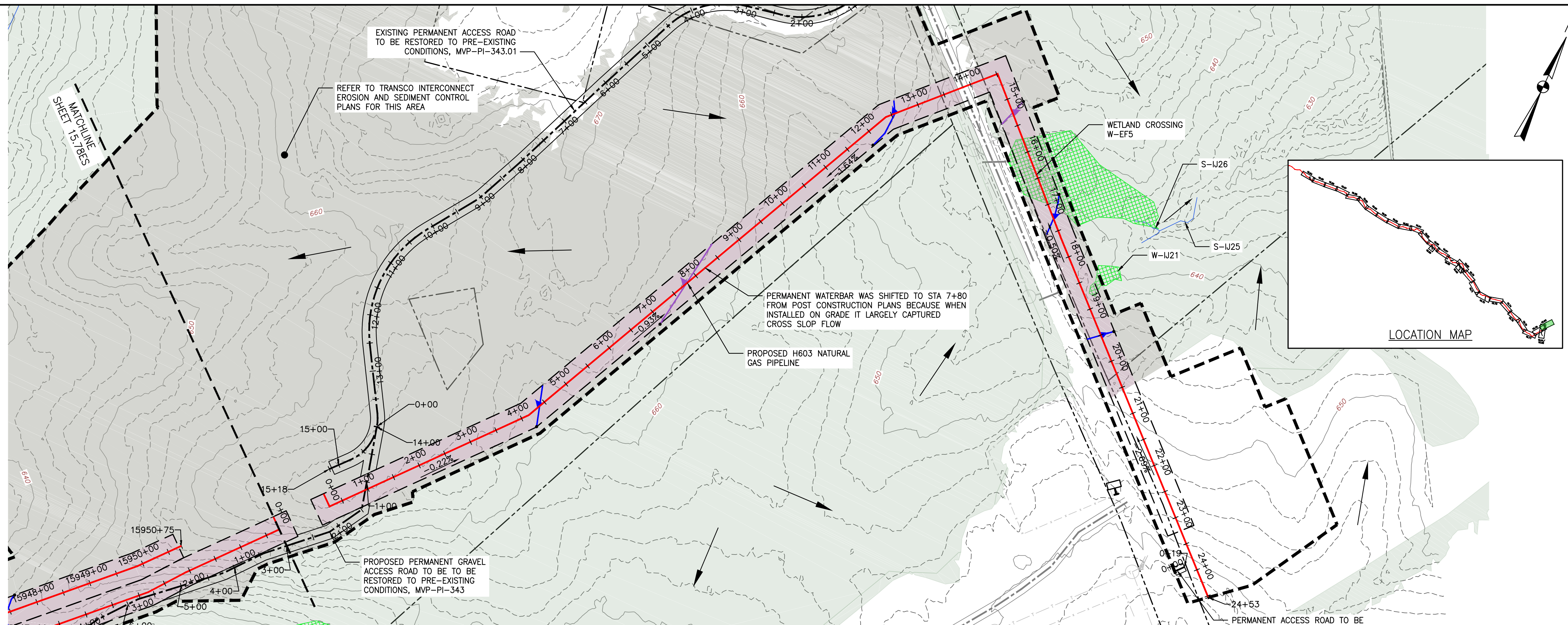
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FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY: KAL
CHECKED BY: HT
APPROVED BY: RE
DATE: 03/21/2018
SCALE: AS SHOWN
SHT. NO. 15.92PC OF 15.93PC



LEGEND

- EXISTING CULVERT
- STREAM
- - - EXISTING PROPERTY LINE
- - - EXISTING STATE LINE
- - - EXISTING COUNTY LINE
- - - EXISTING ROAD/TRAIL
- USDA FOREST SERVICE (NATIONAL FOREST) LANDS
- APPALACHIAN NATIONAL SCENIC TRAIL
- ACID FORMING MATERIAL
- GRASS-LINED CHANNEL (SEE DETAIL MVP-ES39)
- - - PROPOSED LIMIT OF DISTURBANCE
- - - PROPOSED PERMANENT RIGHT OF WAY
- PROPOSED LEVEL SPREADER DIVERSION
- PROPOSED LEVEL SPREADER
- PROPOSED ACCESS ROAD CENTERLINE
- PROPOSED PIPELINE
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NOTES:

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3	02/20/18	KAL	DW	RESUBMISSION USING APPROVED STORMWATER METHODOLOGY
2	11/21/17	KAL	DW	ADDRESS VABEQ COMMENTS
1	09/11/17	KAL	DW	PLAN SUBMISSION

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS
MOUNTAIN VALLEY PIPELINE PROJECT - H603 LINE
SPREAD 11 - PITTSBURGH COUNTY, VIRGINIA

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

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FOSTER PLAZA 7
PITTSBURGH, PA 15220

POST CONSTRUCTION (STORMWATER & RESTORATION) PLANS

DAVID J. WALLNER
Lic. No. 0402057593
PROFESSIONAL ENGINEER

DRAWN BY: KAL
CHECKED BY: HT
APPROVED BY: RE
DATE: 03/21/2018
SCALE: AS SHOWN
SHT. NO. 15.93PC OF 15.93PC