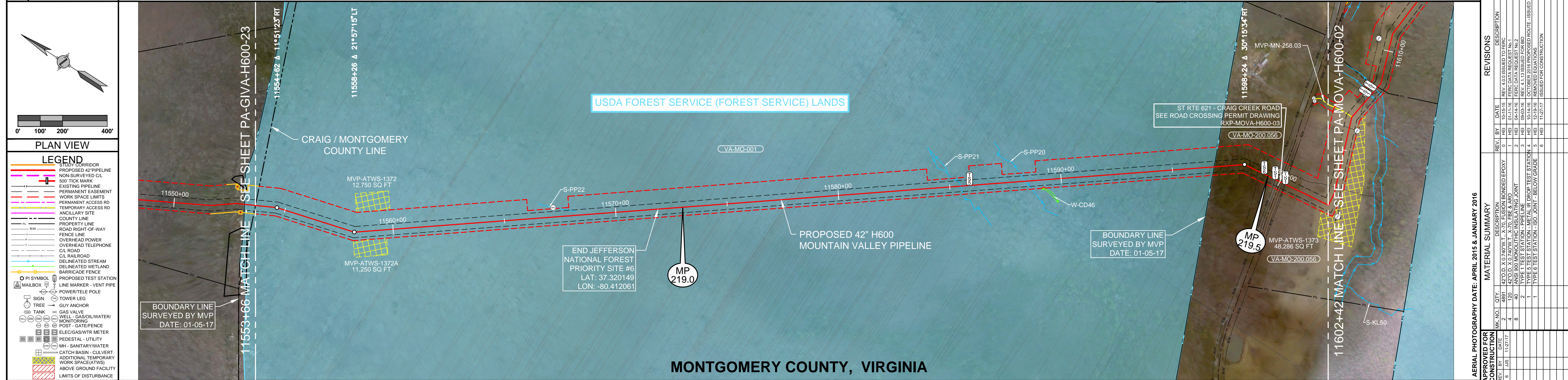


**Mountain Valley Pipeline, LLC  
Mountain Valley Pipeline Project  
Docket No. CP16-10-000**

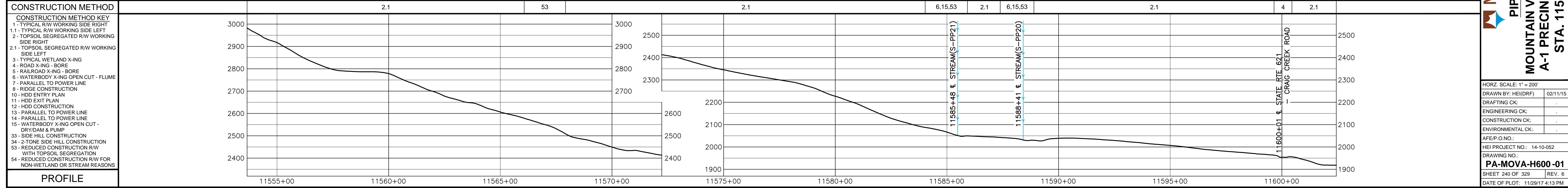
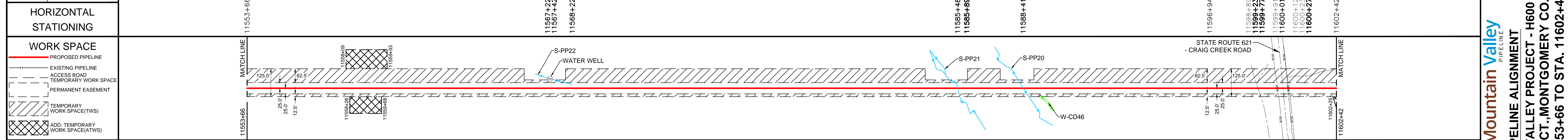
**Implementation Plan  
December 2017 Supplement**

**Attachment IP-4a  
Pipeline Alignment Sheets  
11 Montgomery County, VA**

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-001		4311 LF 4477 SLOPE		VA-MO-200.056		VA-MO-200.056		VA-MO-200.056	
DESIGN	PIPE / COATING	2		4		2		8		2	
	SLOPE DISTANCE	3620'		40'		1047'		40'		205'	
	CLASS LOCATION / HCA	1									
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS		T.O.Y.R.: NO CONSTRUCTION WITHIN STREAMS S-PP21 & S-PP20 MARCH 1ST - JULY 31ST & FISH RELOCATION REQUIRED CONSULT RESPONSIBLE E.I.		TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS					
	WETLAND / STREAM	S-PP22 80 LF		S-PP21 4 LF		S-PP20 6 LF					



REFERENCE DRAWINGS	DRAWING NO. DESCRIPTION MVP-AR-H600-12 ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES RXP-MOVA-H600-03 STATE ROUTE 621 PERMIT DWG P-W-H600-1204-01 CATHODIC PROTECTION STANDARD DRAWING P-W-H600-1204-02 CATHODIC PROTECTION STANDARD DRAWING
HORIZONTAL STATIONING	11553+66 MATCH LINE - END CRAIG COUNTY, BEGIN MONTGOMERY COUNTY, PROPERTY LINE 11567+22 WELL - WATER 42" LT 11567+42 BEGIN STREAM(S-PP22) 37" LT 11568+22 END STREAM(S-PP22) 17" LT 11585+48 & STREAM(S-PP21) 11585+89 PROPOSED TYPE 5 TEST STATION 11588+41 & STREAM(S-PP20) 11596+94 PROPERTY LINE 11598+88 & TRAIL(DIRT) 11598+77 PROPOSED TYPE 6 TEST STATION, R/W 11600+01 & STATE ROUTE 621 CRAIG CREEK ROAD 11600+12 EDGE OF ASPHALT 11600+25 EDGE OF ASPHALT 11600+25 FENCE - HOG WIRE 11600+27 PROPOSED TYPE 1 TEST STATION, R/W 11602+42 MATCH LINE



CONSTRUCTION METHOD	CONSTRUCTION METHOD KEY 1 - TYPICAL R/W WORKING SIDE RIGHT 1.1 - TYPICAL R/W WORKING SIDE LEFT 2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT 2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT 3 - TYPICAL WETLAND X-ING 4 - ROAD X-ING - BORE 5 - RAILROAD X-ING - BORE 6 - WATERBODY X-ING OPEN CUT - FLUME 7 - PARALLEL TO POWER LINE 8 - RIDGE CONSTRUCTION 10 - HDD ENTRY PLAN 11 - HDD EXIT PLAN 12 - HDD CONSTRUCTION 13 - PARALLEL TO POWER LINE 14 - PARALLEL TO POWER LINE 15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP 33 - SIDE HILL CONSTRUCTION 34 - 2-TONE SIDE HILL CONSTRUCTION 53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION 54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS
PROFILE	HORIZONTAL SCALE: 1" = 200' DRAWN BY: HEI(DRF) 02/11/15 DRAFTING CK: ENGINEERING CK: CONSTRUCTION CK: ENVIRONMENTAL CK: AFE/P.O. NO.: HEI PROJECT NO.: 14-10-052 DRAWING NO.: <b>PA-MOVA-H600-01</b> SHEET 240 OF 329 REV. 6 DATE OF PLOT: 11/29/17 4:13 PM

**HOLLAND ENGINEERING**  
 220 Hoover Boulevard, Suite 2  
 Charlottesville, VA 22904  
 Tel: 434-592-5008 Fax: 434-592-2118 T: 248-827-2322 F: 434-207-7949  
 www.hollandengineering.com

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016	
APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING
REV. BY DATE DESCRIPTION	REV. BY DATE DESCRIPTION
0 HEI 10-16-14 REV. 4.0.0 ISSUED TO FERC	0 HEI 10-16-14 REV. 4.0.0 ISSUED TO FERC
1 HEI 10-17-14 FERD DATA REQUEST NO. 1	1 HEI 10-17-14 FERD DATA REQUEST NO. 1
2 HEI 08-28-15 REV. 4.1.13 ISSUED FOR BID	2 HEI 08-28-15 REV. 4.1.13 ISSUED FOR BID
3 HEI 10-14-14 OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC	3 HEI 10-14-14 OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
4 HEI 10-14-14 TYPE 5 TEST STATION - METAL IR DROP TEST STATION	4 HEI 10-14-14 TYPE 5 TEST STATION - METAL IR DROP TEST STATION
5 HEI 10-14-14 TYPE 6 TEST STATION - ISO - JOINT - BELOW GRADE	5 HEI 10-14-14 TYPE 6 TEST STATION - ISO - JOINT - BELOW GRADE
6 HEI 11-27-17 ISSUED FOR CONSTRUCTION	6 HEI 11-27-17 ISSUED FOR CONSTRUCTION

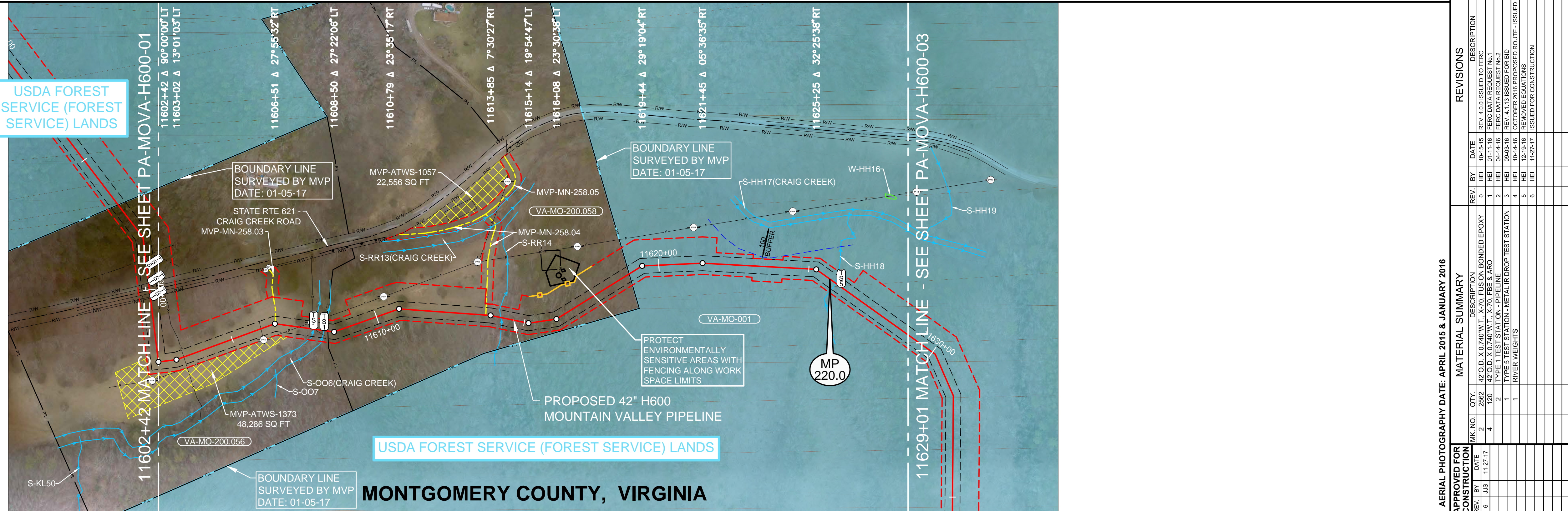
**Mountain Valley Pipeline**  
 PIPELINE ALIGNMENT  
**MOUNTAIN VALLEY PROJECT - H600 LINE**  
**A-1 PRECINCT., MONTGOMERY CO., VA.**  
**STA. 11553+66 TO STA. 11602+42**

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-200.056		VA-MO-200.058		VA-MO-001	
DESIGN	PIPE / COATING	2	4	2	4	2	4
	SLOPE DISTANCE	539'	40'	583'	40'	1153'	287'
	CLASS LOCATION / HCA	1					
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	T.O.Y.R.: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS		T.O.Y.R.: NO CONSTRUCTION WITHIN STREAMS S-006 & S-RR14 MARCH 1ST - JULY 31ST & FISH RELOCATION REQUIRED CONSULT RESPONSIBLE E.I.		TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS	
	WETLAND / STREAM	S-006 36 LF		S-RR14 7 LF		S-HH18 6 LF	

**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED 42" PIPELINE
- NON-SURVEYED CL
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- CL ROAD
- CL RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- SIGN
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- SM - SANITARY WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE



**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
MVP-AR-H600-12	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING
P-W-H600-1204-02	CATHODIC PROTECTION STANDARD DRAWING

**HORIZONTAL STATIONING**

STATIONING	DESCRIPTION
11602+42	MATCH LINE
11605+00	66' RT
11605+28	GUY ANCHOR 80' RT
11605+28	FENCE - ELECTRIC
11605+96	GUY ANCHOR 51' RT
11605+97	POWER POLE 37' RT
11606+02	OHP LINE
11606+49	EDGE OF DIRT
11606+59	ACCESS RD
11607+32	POWER POLE 21' LT
11607+32	TEMPORARY PROPERTY LINE
11607+81	STREAM BANK(S-006)(CRAIG CREEK)
11607+86	PROPOSED RIVER WEIGHT - STREAM
11608+17	STREAM BANK(S-006)(CRAIG CREEK)
11608+29	PROPOSED TYPE 1 TEST STATION
11610+45	POWER POLE 56' LT
11613+69	ACCESS RD - TEMPORARY
11614+20	STREAM(S-RR14)
11614+98	PROPERTY CORNER 52' RT
11615+31	PROPERTY CORNER 46' RT
11615+81	PROPERTY CORNER 49' RT
11616+93	SENSITIVE AREA 97' LT
11618+91	PROPERTY LINE
11625+04	STREAM(S-HH18)
11625+28	PROPOSED TYPE 5 TEST STATION
11629+01	MATCH LINE

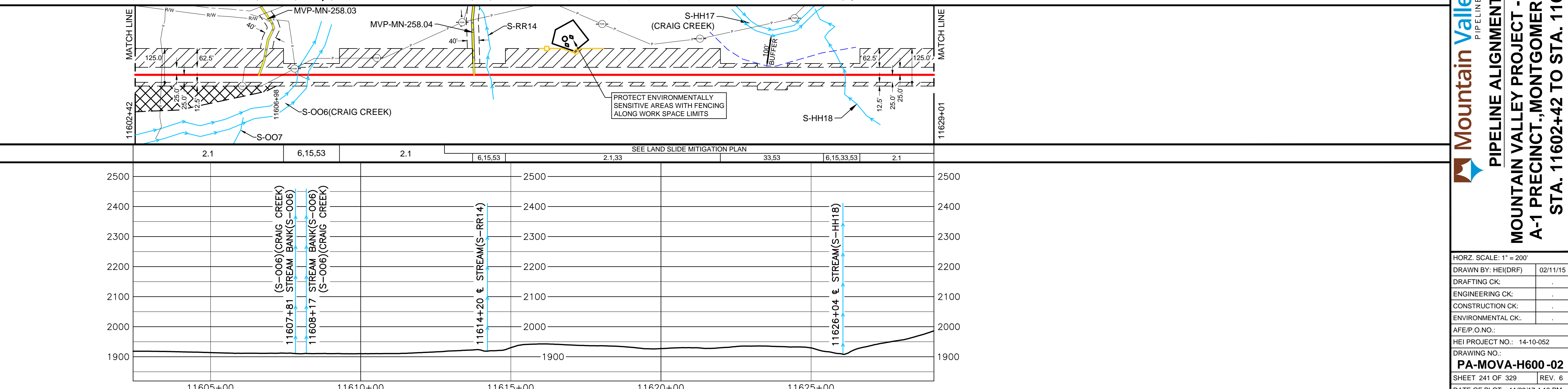
**WORK SPACE**

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD
- TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)

**CONSTRUCTION METHOD**

**CONSTRUCTION METHOD KEY**

- 1 - TYPICAL R/W WORKING SIDE RIGHT
- 1.1 - TYPICAL R/W WORKING SIDE LEFT
- 2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
- 2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
- 3 - TYPICAL WETLAND X-ING
- 4 - ROAD X-ING - BORE
- 5 - RAILROAD X-ING - BORE
- 6 - WATERBODY X-ING OPEN CUT - FLUME
- 7 - PARALLEL TO POWER LINE
- 8 - RIDGE CONSTRUCTION
- 10 - HDD ENTRY PLAN
- 11 - HDD EXIT PLAN
- 12 - HDD CONSTRUCTION
- 13 - PARALLEL TO POWER LINE
- 14 - PARALLEL TO POWER LINE
- 15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
- 33 - SIDE HILL CONSTRUCTION
- 34 - 2-TONE SIDE HILL CONSTRUCTION
- 53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
- 54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS



**HOLLAND ENGINEERING**

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www.hollandengineering.com

**REVISIONS**

REV.	BY	DATE	DESCRIPTION
0	HEI	05-15-18	REV. 4.0.0 ISSUED TO PERC
1	HEI	01-11-18	PERC DATA REQUEST NO. 1
2	HEI	06-02-18	REV. 4.1.3 ISSUED FOR BID
3	HEI	05-14-18	OCTOBER 2018 PROPOSED ROUTE - ISSUED TO PERC
4	HEI	05-14-18	REMOVED EASEMENTS
5	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**MATERIAL SUMMARY**

REV.	BY	DATE	DESCRIPTION
0	HEI	05-15-18	REV. 4.0.0 ISSUED TO PERC
1	HEI	01-11-18	PERC DATA REQUEST NO. 1
2	HEI	06-02-18	REV. 4.1.3 ISSUED FOR BID
3	HEI	05-14-18	OCTOBER 2018 PROPOSED ROUTE - ISSUED TO PERC
4	HEI	05-14-18	REMOVED EASEMENTS
5	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**APPROVED FOR PERC**

**Mountain Valley Pipeline**

**PIPELINE ALIGNMENT**

**MOUNTAIN VALLEY PROJECT - H600 LINE**

**A-1 PRECINCT., MONTGOMERY CO., VA.**

**STA. 11602+42 TO STA. 11629+01**

HORIZ. SCALE: 1" = 200'

DRAWN BY: HEI(DRF) 02/11/15

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

HEI PROJECT NO.: 14-10-652

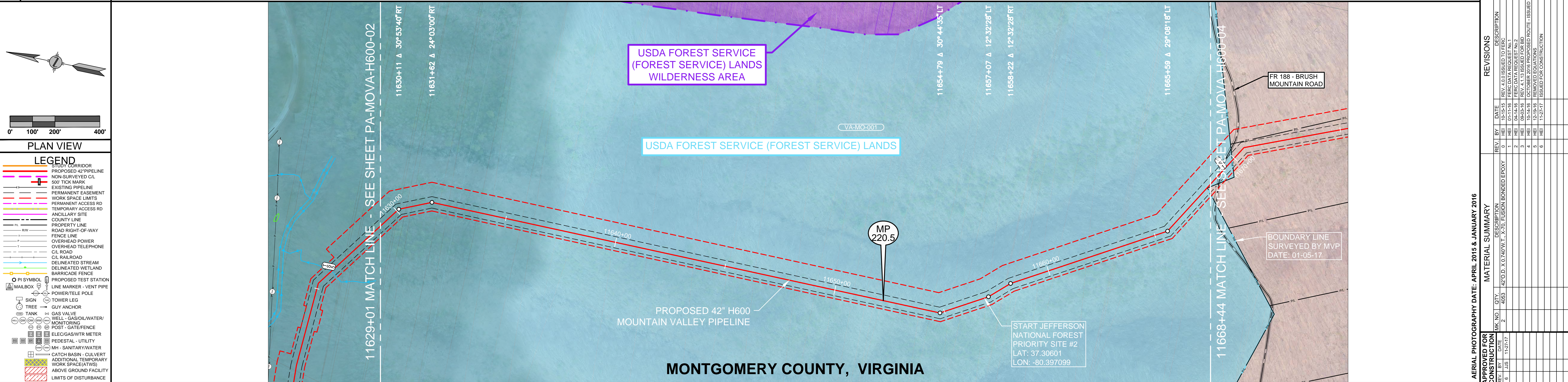
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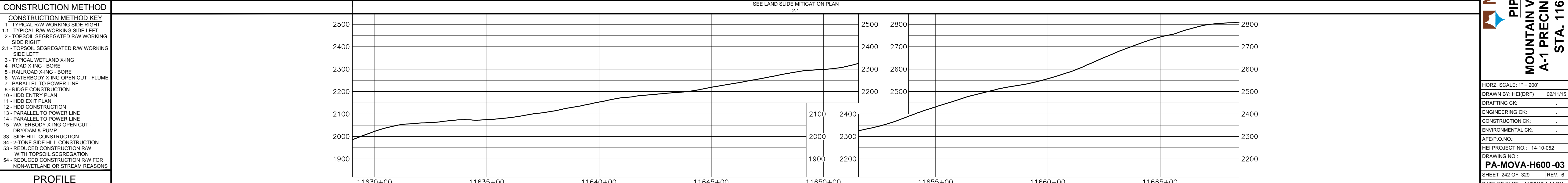
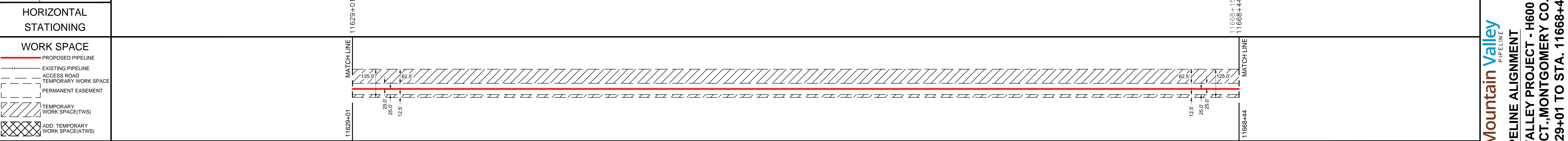
SHEET 241 OF 329 REV. 6

DATE OF PLOT: 11/29/17 4:13 PM

RIGHT-OF-WAY & OWNERSHIP DATA			
DESIGN	PIPE / COATING	2	
	SLOPE DISTANCE	4053'	
	CLASS LOCATION / HCA	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS	
	WETLAND / STREAM		



REFERENCE DRAWINGS	DRAWING NO.	DESCRIPTION
	MVP-AR-H600-12	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES



CONSTRUCTION METHOD	CONSTRUCTION METHOD KEY
	1 - TYPICAL R/W WORKING SIDE RIGHT
	1.1 - TYPICAL R/W WORKING SIDE LEFT
	2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
	2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
	3 - TYPICAL WETLAND X-ING
	4 - ROAD X-ING - BORE
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	33 - SIDE HILL CONSTRUCTION
	34 - 2-TONE SIDE HILL CONSTRUCTION
	53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
	54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS

PROFILE	
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**HOLLAND ENGINEERING**

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 www.hollandengineering.com

REV.	BY	DATE	DESCRIPTION
0	HEI	05-15-16	REV. 4.0.0 ISSUED TO PERC
1	HEI	01-11-16	PERC DATA REQUEST NO. 1
2	HEI	06-22-16	REV. 4.1.13 ISSUED FOR BIDDING
3	HEI	06-22-16	REV. 4.1.13 ISSUED FOR BIDDING
4	HEI	05-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO PERC
5	HEI	05-14-16	REMOVED EDUATIONS
6	HEI	11-27-17	ISSUED FOR CONSTRUCTION

REV.	BY	DATE	DESCRIPTION
0	HEI	05-15-16	REV. 4.0.0 ISSUED TO PERC
1	HEI	01-11-16	PERC DATA REQUEST NO. 1
2	HEI	06-22-16	REV. 4.1.13 ISSUED FOR BIDDING
3	HEI	06-22-16	REV. 4.1.13 ISSUED FOR BIDDING
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5	HEI	05-14-16	REMOVED EDUATIONS
6	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**Mountain Valley Pipeline**

PIPELINE ALIGNMENT

**MOUNTAIN VALLEY PROJECT - H600 LINE**

**A-1 PRECINCT., MONTGOMERY CO., VA.**

**STA. 11629+01 TO STA. 11668+44**

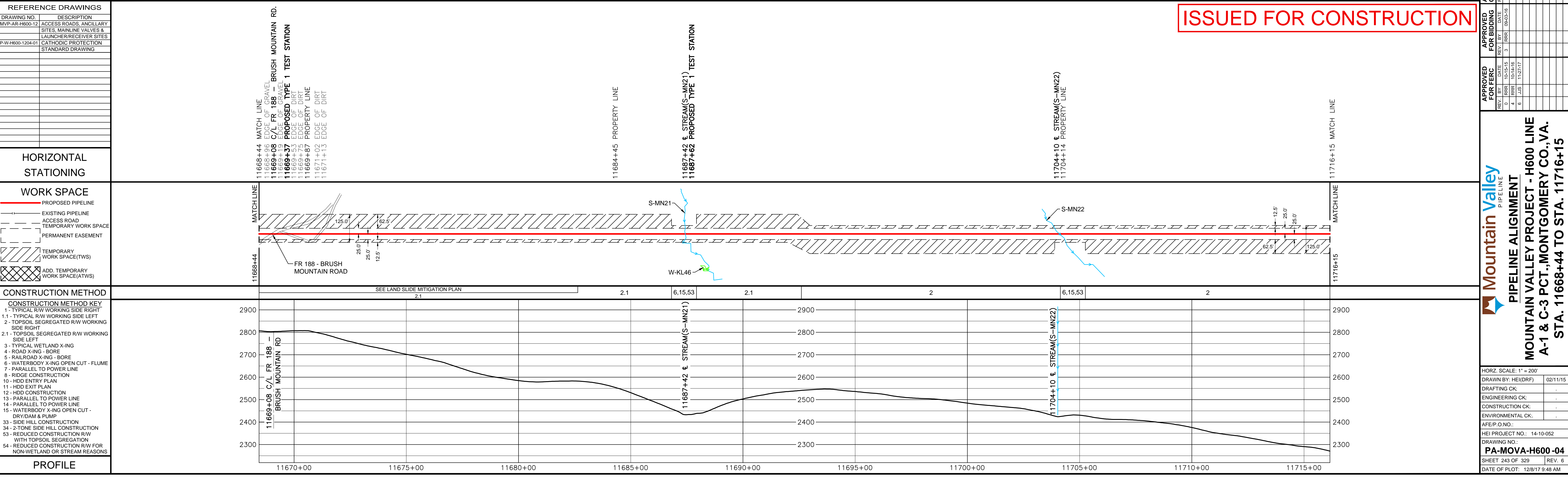
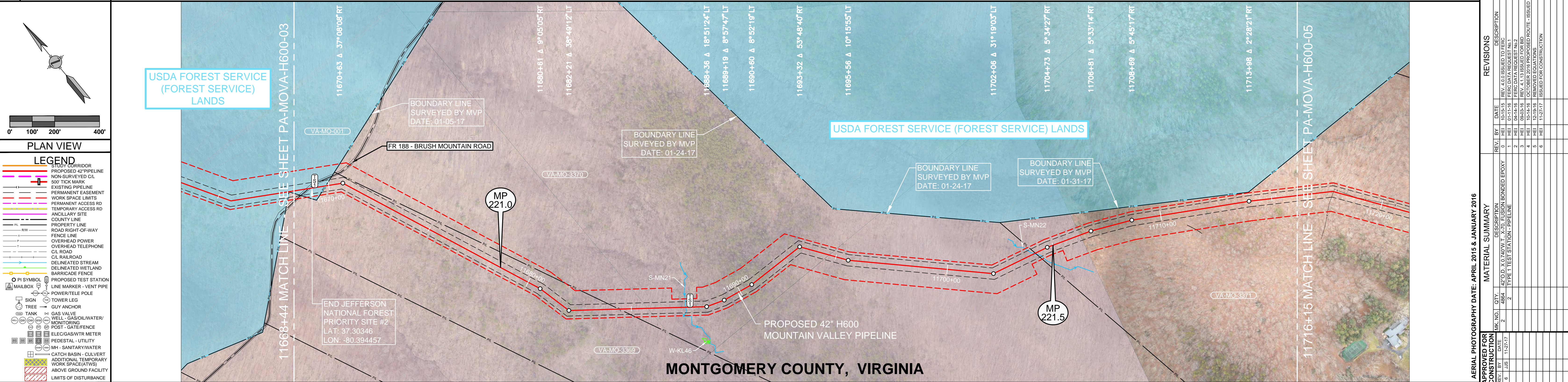
APPROVED FOR CONSTRUCTION

APPROVED FOR BIDDING

APPROVED FOR PERC

DATE: 11/29/17 4:14 PM

RIGHT-OF-WAY & OWNERSHIP DATA	<table border="1"> <tr><td>VA-MO-001</td><td>VA-MO-001</td><td>VA-MO-001</td><td>VA-MO-001</td><td>VA-MO-3370</td><td>VA-MO-3369</td><td>VA-MO-3370</td><td>VA-MO-3370</td><td>VA-MO-3371</td></tr> <tr><td>53 LF 53 SLOPE</td><td>49 LF 53 SLOPE</td><td>81 LF 81 SLOPE</td><td>29 LF 29 SLOPE</td><td>1073 LF 1101 SLOPE</td><td>139 LF 139 SLOPE</td><td>242 LF 250 SLOPE</td><td>1890 LF 1923 SLOPE</td><td>1164 LF 1178 SLOPE</td></tr> </table>	VA-MO-001	VA-MO-001	VA-MO-001	VA-MO-001	VA-MO-3370	VA-MO-3369	VA-MO-3370	VA-MO-3370	VA-MO-3371	53 LF 53 SLOPE	49 LF 53 SLOPE	81 LF 81 SLOPE	29 LF 29 SLOPE	1073 LF 1101 SLOPE	139 LF 139 SLOPE	242 LF 250 SLOPE	1890 LF 1923 SLOPE	1164 LF 1178 SLOPE
VA-MO-001	VA-MO-001	VA-MO-001	VA-MO-001	VA-MO-3370	VA-MO-3369	VA-MO-3370	VA-MO-3370	VA-MO-3371											
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DESIGN	<table border="1"> <tr><td>PIPE / COATING</td><td>2</td></tr> <tr><td>SLOPE DISTANCE</td><td>4864'</td></tr> <tr><td>CLASS LOCATION / HCA</td><td>1</td></tr> </table>	PIPE / COATING	2	SLOPE DISTANCE	4864'	CLASS LOCATION / HCA	1												
PIPE / COATING	2																		
SLOPE DISTANCE	4864'																		
CLASS LOCATION / HCA	1																		
ENVIRONMENTAL	<table border="1"> <tr><td>CONSTRUCTION EXCLUSION</td><td>TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS</td></tr> <tr><td>WETLAND / STREAM</td><td> <table border="1"> <tr><td>S-MN21</td><td>S-MN22</td></tr> <tr><td>5 LF</td><td>3 LF</td></tr> </table> </td></tr> </table>	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS	WETLAND / STREAM	<table border="1"> <tr><td>S-MN21</td><td>S-MN22</td></tr> <tr><td>5 LF</td><td>3 LF</td></tr> </table>	S-MN21	S-MN22	5 LF	3 LF										
CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS																		
WETLAND / STREAM	<table border="1"> <tr><td>S-MN21</td><td>S-MN22</td></tr> <tr><td>5 LF</td><td>3 LF</td></tr> </table>	S-MN21	S-MN22	5 LF	3 LF														
S-MN21	S-MN22																		
5 LF	3 LF																		



**ISSUED FOR CONSTRUCTION**

REFERENCE DRAWINGS	<table border="1"> <tr><th>DRAWING NO.</th><th>DESCRIPTION</th></tr> <tr><td>MVP-AR-H600-12</td><td>ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES &amp; LAUNCHER/RECEIVER SITES</td></tr> <tr><td>P-W-H600-1204-01</td><td>CATHODIC PROTECTION STANDARD DRAWING</td></tr> </table>	DRAWING NO.	DESCRIPTION	MVP-AR-H600-12	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES	P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING
DRAWING NO.	DESCRIPTION						
MVP-AR-H600-12	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES						
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING						

HORIZONTAL STATIONING	<table border="1"> <tr><td>11668+44 MATCH LINE</td></tr> <tr><td>11669+06</td></tr> <tr><td>11669+37 PROPOSED TYPE 1 TEST STATION</td></tr> <tr><td>11669+53</td></tr> <tr><td>11669+67</td></tr> <tr><td>11671+13</td></tr> <tr><td>11684+45 PROPERTY LINE</td></tr> <tr><td>11687+62 &amp; STREAM(S-MN21)</td></tr> <tr><td>11687+62 PROPOSED TYPE 1 TEST STATION</td></tr> <tr><td>11704+10 &amp; STREAM(S-MN22)</td></tr> <tr><td>11704+14 PROPERTY LINE</td></tr> <tr><td>11716+15 MATCH LINE</td></tr> </table>	11668+44 MATCH LINE	11669+06	11669+37 PROPOSED TYPE 1 TEST STATION	11669+53	11669+67	11671+13	11684+45 PROPERTY LINE	11687+62 & STREAM(S-MN21)	11687+62 PROPOSED TYPE 1 TEST STATION	11704+10 & STREAM(S-MN22)	11704+14 PROPERTY LINE	11716+15 MATCH LINE
11668+44 MATCH LINE													
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11669+37 PROPOSED TYPE 1 TEST STATION													
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11687+62 & STREAM(S-MN21)													
11687+62 PROPOSED TYPE 1 TEST STATION													
11704+10 & STREAM(S-MN22)													
11704+14 PROPERTY LINE													
11716+15 MATCH LINE													

WORK SPACE	<table border="1"> <tr><td>PROPOSED PIPELINE</td></tr> <tr><td>EXISTING PIPELINE</td></tr> <tr><td>ACCESS ROAD</td></tr> <tr><td>TEMPORARY WORK SPACE</td></tr> <tr><td>PERMANENT EASEMENT</td></tr> <tr><td>TEMPORARY WORK SPACE(TWS)</td></tr> <tr><td>ADD. TEMPORARY WORK SPACE(ATWS)</td></tr> </table>	PROPOSED PIPELINE	EXISTING PIPELINE	ACCESS ROAD	TEMPORARY WORK SPACE	PERMANENT EASEMENT	TEMPORARY WORK SPACE(TWS)	ADD. TEMPORARY WORK SPACE(ATWS)
PROPOSED PIPELINE								
EXISTING PIPELINE								
ACCESS ROAD								
TEMPORARY WORK SPACE								
PERMANENT EASEMENT								
TEMPORARY WORK SPACE(TWS)								
ADD. TEMPORARY WORK SPACE(ATWS)								

CONSTRUCTION METHOD	<table border="1"> <tr><td>CONSTRUCTION METHOD KEY</td></tr> <tr><td>1 - TYPICAL R/W WORKING SIDE RIGHT</td></tr> <tr><td>1.1 - TYPICAL R/W WORKING SIDE LEFT</td></tr> <tr><td>2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT</td></tr> <tr><td>2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT</td></tr> <tr><td>3 - TYPICAL WETLAND X-ING</td></tr> <tr><td>4 - ROAD X-ING - BORE</td></tr> <tr><td>5 - RAILROAD X-ING - BORE</td></tr> <tr><td>6 - WATERBODY X-ING OPEN CUT - FLUME</td></tr> <tr><td>7 - PARALLEL TO POWER LINE</td></tr> <tr><td>8 - RIDGE CONSTRUCTION</td></tr> <tr><td>10 - HDD ENTRY PLAN</td></tr> <tr><td>11 - HDD EXIT PLAN</td></tr> <tr><td>12 - HDD CONSTRUCTION</td></tr> <tr><td>13 - PARALLEL TO POWER LINE</td></tr> <tr><td>14 - PARALLEL TO POWER LINE</td></tr> <tr><td>15 - WATERBODY X-ING OPEN CUT - DRY/DAM &amp; PUMP</td></tr> <tr><td>33 - SIDE HILL CONSTRUCTION</td></tr> <tr><td>34 - 2-TONE SIDE HILL CONSTRUCTION</td></tr> <tr><td>53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION</td></tr> <tr><td>54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS</td></tr> </table>	CONSTRUCTION METHOD KEY	1 - TYPICAL R/W WORKING SIDE RIGHT	1.1 - TYPICAL R/W WORKING SIDE LEFT	2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT	2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT	3 - TYPICAL WETLAND X-ING	4 - ROAD X-ING - BORE	5 - RAILROAD X-ING - BORE	6 - WATERBODY X-ING OPEN CUT - FLUME	7 - PARALLEL TO POWER LINE	8 - RIDGE CONSTRUCTION	10 - HDD ENTRY PLAN	11 - HDD EXIT PLAN	12 - HDD CONSTRUCTION	13 - PARALLEL TO POWER LINE	14 - PARALLEL TO POWER LINE	15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP	33 - SIDE HILL CONSTRUCTION	34 - 2-TONE SIDE HILL CONSTRUCTION	53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION	54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS
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**HOLLAND ENGINEERING**  
 220 Hoover Boulevard, Suite 2  
 20505 Englewood Rd, Suite 420  
 Tallahassee, FL 32309  
 T 904.252.5008 F 904.252.2111  
 www.hollandengineering.com

REVISIONS	<table border="1"> <tr><th>REV.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>0</td><td>10-15-15</td><td>REV. 4.0.0 ISSUED TO FERC</td></tr> <tr><td>1</td><td>01-11-16</td><td>FERC DATA REQUEST NO. 1</td></tr> <tr><td>2</td><td>09-24-16</td><td>REV. 4.1.0 ISSUED FOR BID</td></tr> <tr><td>3</td><td>09-24-16</td><td>REV. 4.1.13 ISSUED FOR BID</td></tr> <tr><td>4</td><td>10-14-16</td><td>OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC</td></tr> <tr><td>5</td><td>12-19-16</td><td>REVISED EDITIONS</td></tr> <tr><td>6</td><td>11-27-17</td><td>ISSUED FOR CONSTRUCTION</td></tr> </table>	REV.	DATE	DESCRIPTION	0	10-15-15	REV. 4.0.0 ISSUED TO FERC	1	01-11-16	FERC DATA REQUEST NO. 1	2	09-24-16	REV. 4.1.0 ISSUED FOR BID	3	09-24-16	REV. 4.1.13 ISSUED FOR BID	4	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC	5	12-19-16	REVISED EDITIONS	6	11-27-17	ISSUED FOR CONSTRUCTION
REV.	DATE	DESCRIPTION																							
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MATERIAL SUMMARY	<table border="1"> <tr><th>REV.</th><th>DATE</th><th>DESCRIPTION</th><th>QTY.</th></tr> <tr><td>0</td><td>10-15-15</td><td>42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY PIPELINE</td><td>2</td></tr> <tr><td>1</td><td>01-11-16</td><td>TYPE 1 TEST STATION - PIPELINE</td><td>2</td></tr> </table>	REV.	DATE	DESCRIPTION	QTY.	0	10-15-15	42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY PIPELINE	2	1	01-11-16	TYPE 1 TEST STATION - PIPELINE	2
REV.	DATE	DESCRIPTION	QTY.										
0	10-15-15	42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY PIPELINE	2										
1	01-11-16	TYPE 1 TEST STATION - PIPELINE	2										

APPROVED FOR CONSTRUCTION	<table border="1"> <tr><th>REV.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td>0</td><td>10-15-15</td><td>ISSUED FOR CONSTRUCTION</td></tr> <tr><td>1</td><td>11-27-17</td><td>ISSUED FOR CONSTRUCTION</td></tr> </table>	REV.	DATE	DESCRIPTION	0	10-15-15	ISSUED FOR CONSTRUCTION	1	11-27-17	ISSUED FOR CONSTRUCTION
REV.	DATE	DESCRIPTION								
0	10-15-15	ISSUED FOR CONSTRUCTION								
1	11-27-17	ISSUED FOR CONSTRUCTION								

**Mountain Valley PIPELINE ALIGNMENT**  
**MOUNTAIN VALLEY PROJECT - H600 LINE**  
**A-1 & C-3 PCT., MONTGOMERY CO., VA.**  
**STA. 11668+44 TO STA. 11716+15**

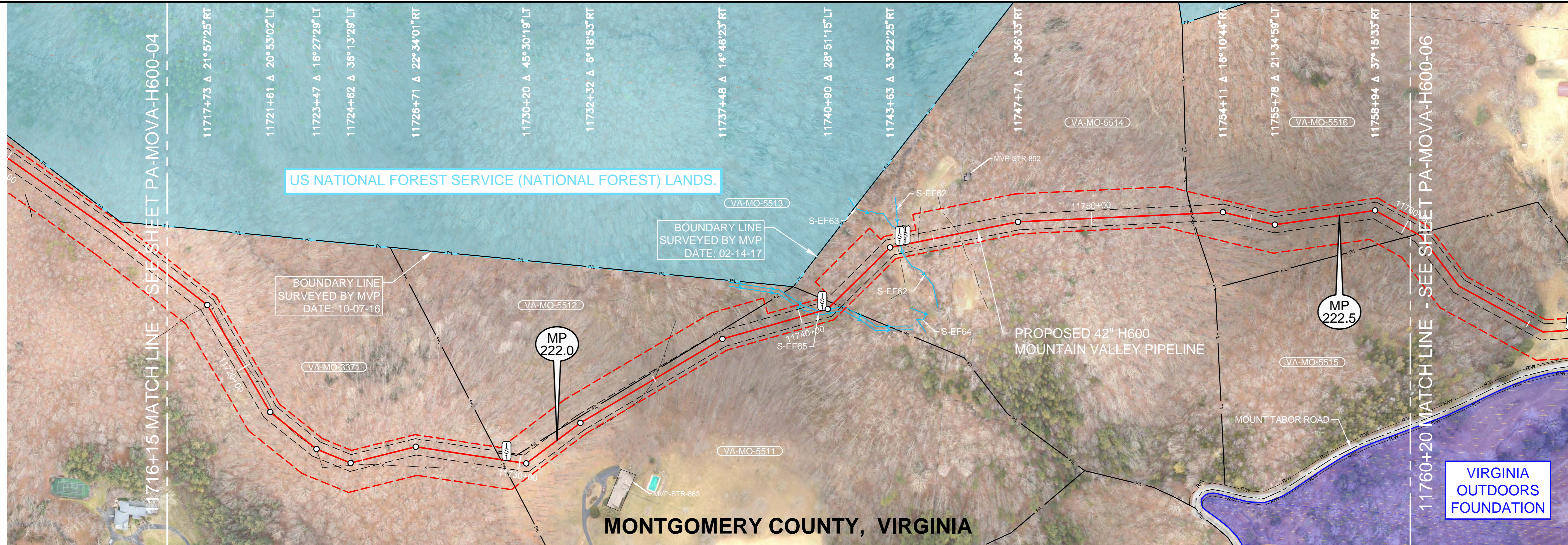
HORIZ. SCALE: 1" = 200'	DATE OF PLOT: 12/28/17 9:48 AM
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFEP O.N.O.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.:	
<b>PA-MOVA-H600-04</b>	
SHEET 243 OF 329	REV. 6

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-5517	VA-MO-5512	VA-MO-5511	VA-MO-5514	VA-MO-5514	VA-MO-5514	VA-MO-5516	VA-MO-5516	VA-MO-5516	VA-MO-5516	VA-MO-5516	VA-MO-5516	
DESIGN	PIPE / COATING			2										
	SLOPE DISTANCE	11716+15	11724+00	11730+00	11734+00	11740+00	11744+00	11750+00	11754+00	11758+00	11760+00	11760+00		
	CLASS LOCATION / HCA			2449'		80'	282'	40'		1636'				
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	11716+15	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS				T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-EF65 OCT 1ST TO JUNE 30TH		FISH RELOCATION REQUIRED WITHIN STREAM S-EF62 CONSULT RESPONSIBLE E.I.		TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS			11760+00
	WETLAND / STREAM					S-EF65	S-EF62							
						30 LF	9 LF							

**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED 42" PIPELINE
- NON-SURVEYED C.L.
- 400' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C.L. ROAD
- C.L. RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- SIGN
- TOWER LEG
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE



**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
MVP-AR-H600-12	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING

**HORIZONTAL STATIONING**

11716+15 MATCH LINE	11717+78 FENCE - BARBED WIRE	11722+11 FENCE - BARBED WIRE	11723+47 FENCE - BARBED WIRE	11729+40 PROPERTY LINE 11729+59 PROPOSED TYPE 1 TEST STATION	11735+02 FENCE - BARBED WIRE	11740+00 PROPERTY LINE 11740+04 STREAM BANK(S-EF65) 11740+57 PROPOSED RIVER WEIGHT - STREAM 11740+72 STREAM BANK(S-EF65) 11741+13 PROPERTY LINE	11743+92 TRAIL(DIRT) 11743+93 PROPOSED TYPE 1 TEST STATION 11743+97 STREAM(S-EF62/9')	11744+12 PROPOSED TYPE 1 TEST STATION 11744+55 TRAIL(DIRT)	11745+83 TRAIL(DIRT)	11753+11 FENCE - BARBED WIRE	11753+76 PROPERTY LINE	11760+20 MATCH LINE
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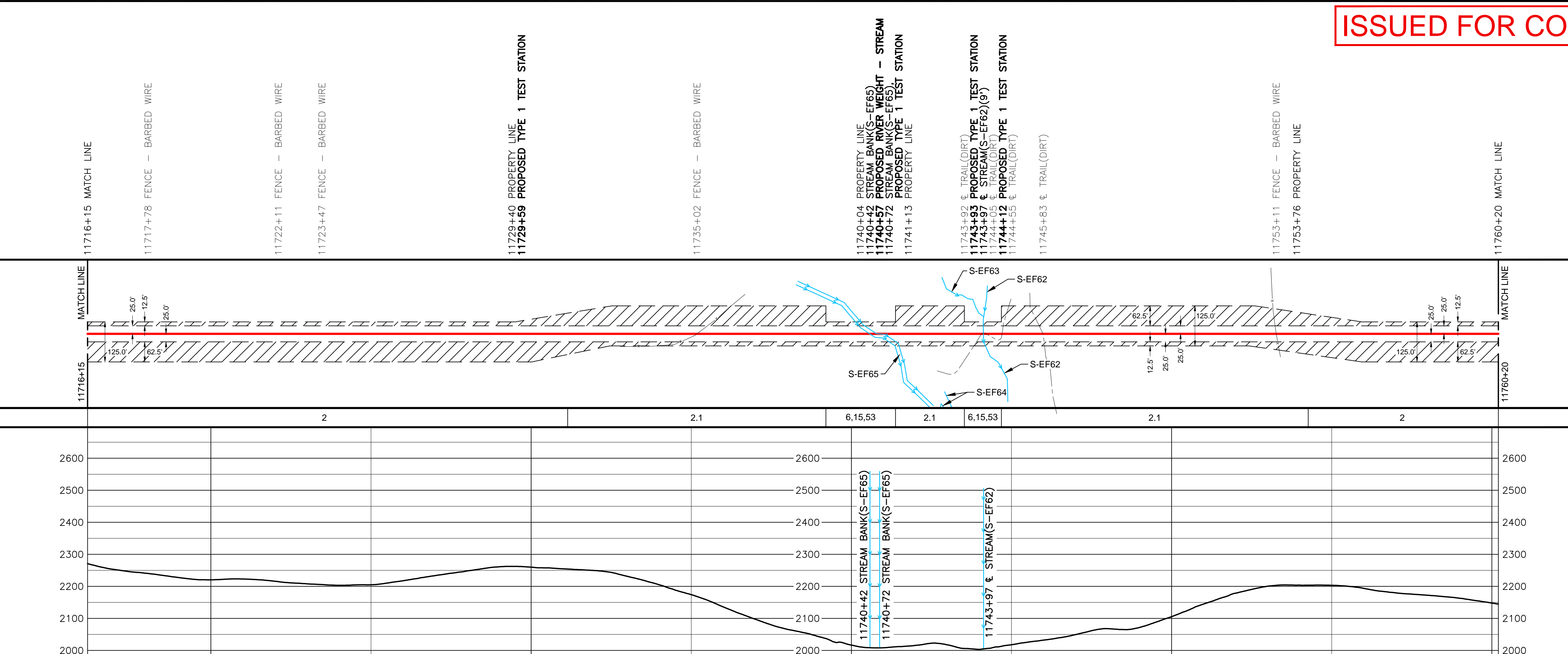
**WORK SPACE**

PROPOSED PIPELINE	EXISTING PIPELINE	ACCESS ROAD	TEMPORARY WORK SPACE	PERMANENT EASEMENT	TEMPORARY WORK SPACE(TWS)	ADD. TEMPORARY WORK SPACE(ATWS)
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**CONSTRUCTION METHOD**

**CONSTRUCTION METHOD KEY**

- TYPICAL R/W WORKING SIDE RIGHT
- TYPICAL R/W WORKING SIDE LEFT
- TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
- TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
- TYPICAL WETLAND X-ING
- ROAD X-ING - BORE
- RAILROAD X-ING - BORE
- WATERBODY X-ING OPEN CUT - FLUME
- PARALLEL TO POWER LINE
- RIDGE CONSTRUCTION
- HDD ENTRY PLAN
- HDD EXIT PLAN
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- 2 TONE SIDE HILL CONSTRUCTION
- REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
- REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS



**PROFILE**

**ISSUED FOR CONSTRUCTION**

**HOLLAND ENGINEERING**

200 Hoover Boulevard, Suite 200  
 26055 Englewood Rd., Suite 420  
 F 610-582-5508 F 610-302-2118 T 248-827-2322 F 248-827-7949  
 www.hollandengineering.com

**REVISIONS**

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST NO. 1
2	HEI	04-28-16	REV. 4.1.0 ISSUED FOR BID
3	HEI	06-24-16	REV. 4.1.13 ISSUED FOR BID
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
5	HEI	12-29-16	REVISED EDITIONS
6	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**MATERIAL SUMMARY**

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST NO. 1
2	HEI	04-28-16	REV. 4.1.0 ISSUED FOR BID
3	HEI	06-24-16	REV. 4.1.13 ISSUED FOR BID
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
5	HEI	12-29-16	REVISED EDITIONS
6	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**APPROVED FOR FERC**

**Mountain Valley Pipeline**

**PIPELINE ALIGNMENT**

**MOUNTAIN VALLEY PROJECT - H600 LINE**

**C-3 PRECINCT., MONTGOMERY CO., VA.**

**STA. 11716+15 TO STA. 11760+20**

HORZ. SCALE: 1" = 200'

DRAWN BY: HEI(DRF) 02/11/15

DRAFTING CK: .

ENGINEERING CK: .

CONSTRUCTION CK: .

ENVIRONMENTAL CK: .

AFE/P.O.N.O.: .

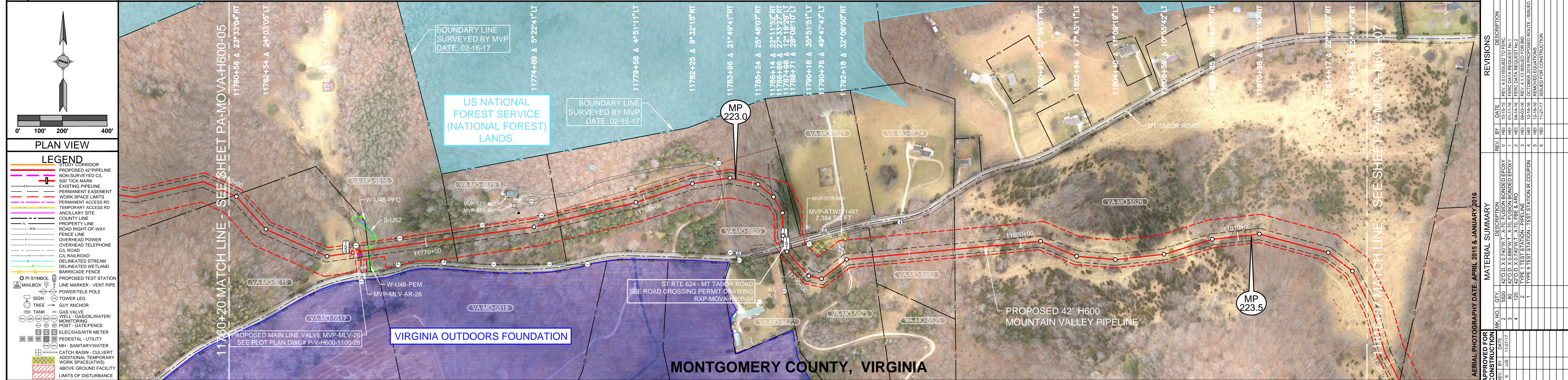
HEI PROJECT NO.: 14-10-052

DRAWING NO.: PA-MOVA-H600-05

SHEET 244 OF 329 REV. 6

DATE OF PLOT: 12/9/17 9:49 AM

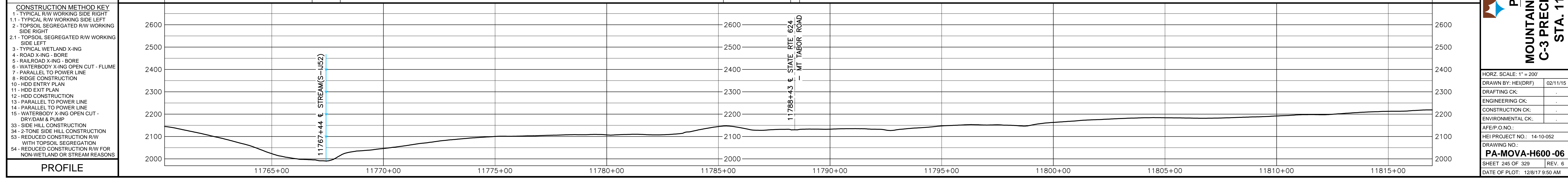
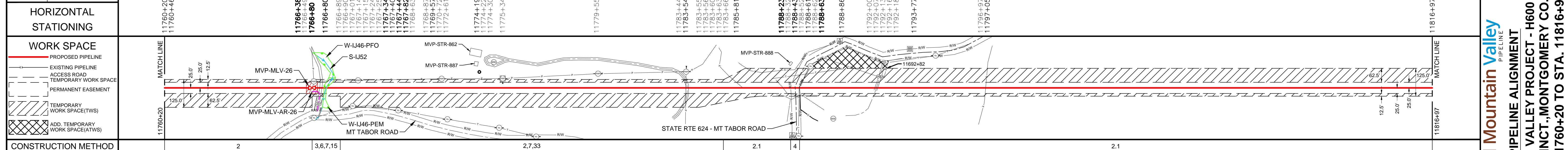
RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-5516	VA-MO-5518	VA-MO-5519	VA-MO-5520	VA-MO-5521	VA-MO-5522	VA-MO-5523	VA-MO-5524	VA-MO-5526
PIPE / COATING		2	3	4		2				2
SLOPE DISTANCE		643'	80'	40'		2058'				2819'
CLASS LOCATION / HCA										
ENVIRONMENTAL		T.O.Y.R.: SEE TREE CLEARING PLAN		FISH RELOCATION REQUIRED WITHIN STREAM S-IJ52 CONSULT RESPONSIBLE E.I.		TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS				
CONSTRUCTION EXCLUSION		W-IJ46-PEM		S-IJ52						
WETLAND / STREAM		48 LF		7 LF						



REV	BY	DATE	DESCRIPTION
0	HE	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HE	01-11-16	FERC DATA REQUEST NO. 1
2	HE	09-24-16	REV. 4.1.0 ISSUED FOR BID
3	HE	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
4	HE	12-29-16	REVISED CONDITIONS
5	HE	11-21-17	ISSUED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING	APPROVED FOR FERC
REV. 11/27/17	REV. 09/26/16	REV. 10-15-15
JIS	JIS	JIS



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 www.hollandengineering.com

REV	BY	DATE	DESCRIPTION
0	HE	10-15-15	REV. 4.0.0 ISSUED TO FERC
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2	HE	09-24-16	REV. 4.1.0 ISSUED FOR BID
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4	HE	12-29-16	REVISED CONDITIONS
5	HE	11-21-17	ISSUED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING	APPROVED FOR FERC
REV. 11/27/17	REV. 09/26/16	REV. 10-15-15
JIS	JIS	JIS

**Mountain Valley PIPELINE**  
**PIPELINE ALIGNMENT**  
**MOUNTAIN VALLEY PROJECT - H600 LINE**  
**C-3 PRECINCT., MONTGOMERY CO., VA.**  
**STA. 11760+20 TO STA. 11816+97**

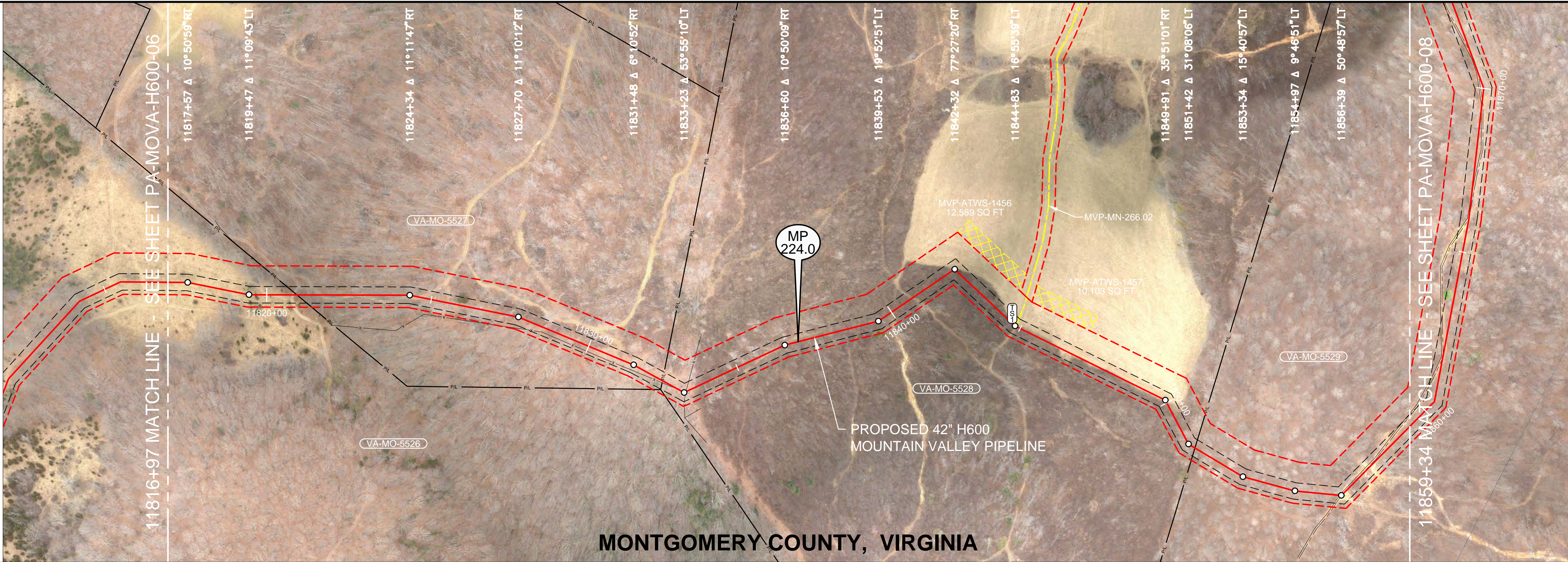
HORIZ. SCALE: 1" = 200'	DATE OF PLOT: 12/28/17 9:50 AM
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFEP.O.NO.:	
HEI PROJECT NO.: 14-10-052	
DRAWING NO.:	
<b>PA-MOVA-H600-06</b>	
SHEET 245 OF 329	REV. 6

RIGHT-OF-WAY & OWNERSHIP DATA		(VA-MO-5526)	(VA-MO-5527)	(VA-MO-5527)	(VA-MO-5528)	(VA-MO-5528)	(VA-MO-5528)	(VA-MO-5529)	(VA-MO-5529)	(VA-MO-5529)						
DESIGN	PIPE / COATING	11816+97	289 LF 26% SLOPE	11819+47	142 LF 15% SLOPE	11832+30	14 LF 15% SLOPE	11832+34	22 LF 22% SLOPE	11832+36	23 LF 23% SLOPE	11832+78	1887 LF 188% SLOPE	11859+34	769 LF 77% SLOPE	11859+34
	SLOPE DISTANCE															
	CLASS LOCATION / HCA															
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	11816+97	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS										11859+34			
	WETLAND / STREAM															

**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED 42" PIPELINE
- NON-SURVEYED CL
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- CL ROAD
- CL RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- PI SYMBOL
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- SIGN
- TREE
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- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE



**REVISIONS**

REV. NO.	DATE	DESCRIPTION
0	10-16-16	REV. 4.0.0 ISSUED TO FERC
1	01-11-16	FERC DATA REQUEST NO. 1
2	04-22-16	REV. 4.1.0 ISSUED FOR BIDDING
3	04-22-16	REV. 4.1.1 ISSUED FOR BIDDING
4	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
5	10-14-16	REMOVED EASEMENTS
6	11-27-17	ISSUED FOR CONSTRUCTION

**MATERIAL SUMMARY**

REV. NO.	DATE	DESCRIPTION
0	11-27-17	42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY
1	11-27-17	TYPE 1 TEST STATION - PIPELINE

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**APPROVED FOR FERC**

**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING

**HORIZONTAL STATIONING**

11816+97 MATCH LINE

11820+92 PROPERTY LINE  
11820+93 FENCE - BARBED WIRE

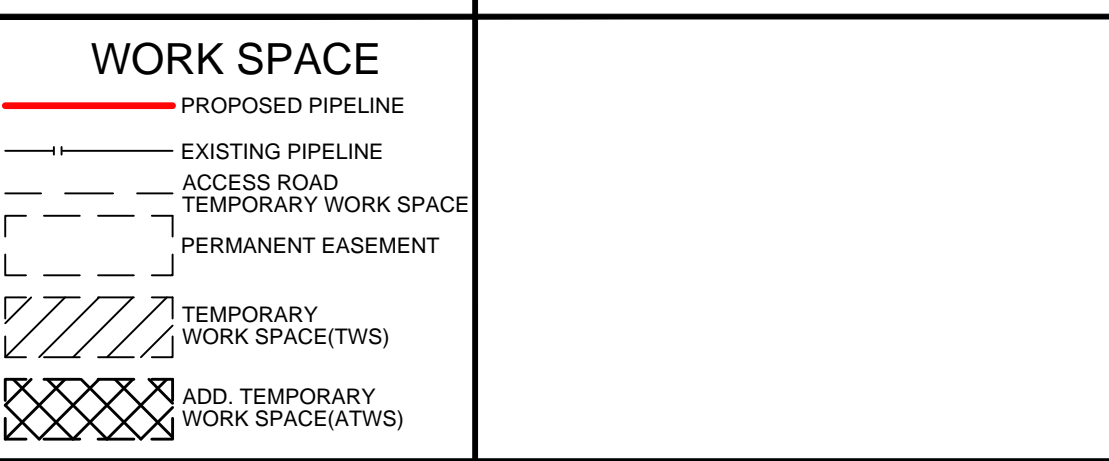
11832+48 PROPERTY LINE  
11833+05 FENCE - BARBED WIRE  
11833+23 PROPERTY CORNER 19' RT  
11833+26 FENCE - BARBED WIRE  
11833+28 FENCE - BARBED WIRE

11844+71 PROPOSED TYPE 1 TEST STATION  
11844+83 EDGE OF DIRT  
11844+87 ACCESS ROAD - TEMPORARY  
11844+91 EDGE OF DIRT (MVP-MN-266.02)

11856+33 EDGE OF DIRT  
11856+39 E TRAIL(DIRT)

11859+07 EDGE OF DIRT

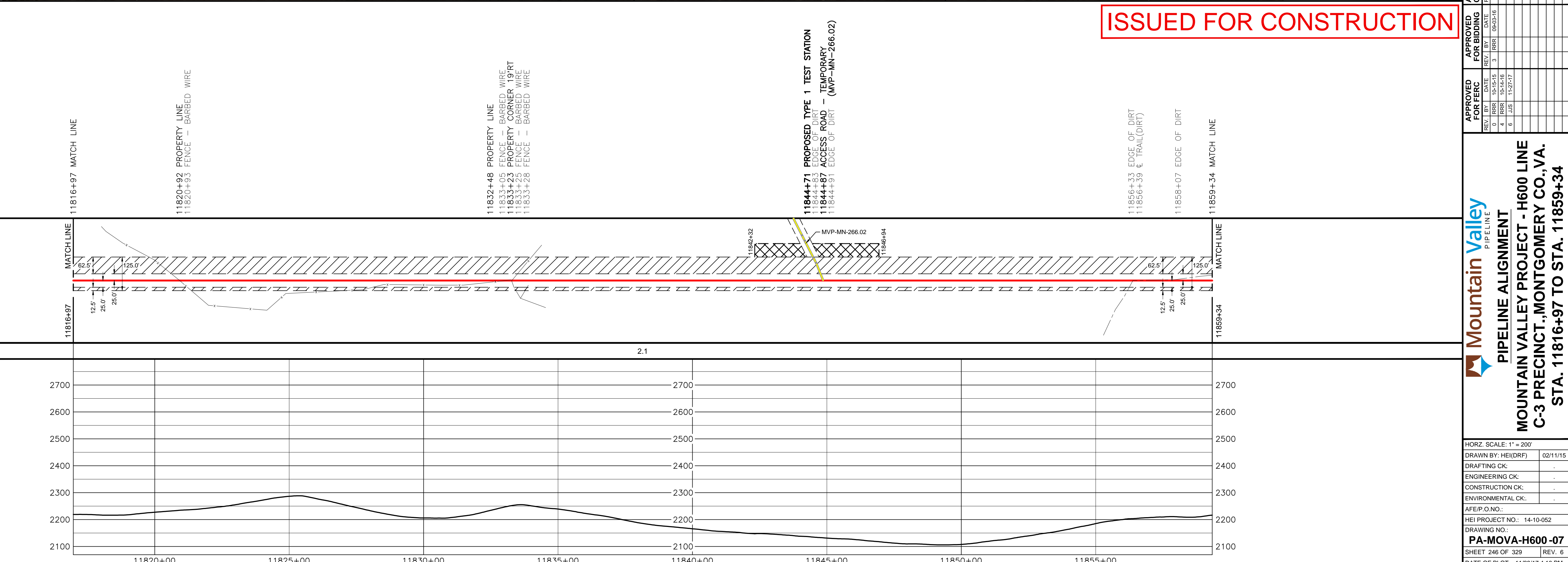
11859+34 MATCH LINE



**CONSTRUCTION METHOD**

**CONSTRUCTION METHOD KEY**

- 1 - TYPICAL R/W WORKING SIDE RIGHT
- 1.1 - TYPICAL R/W WORKING SIDE LEFT
- 2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
- 2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
- 3 - TYPICAL WETLAND X-ING
- 4 - ROAD X-ING - BORE
- 5 - RAILROAD X-ING - BORE
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- 33 - SIDE HILL CONSTRUCTION
- 34 - 2-TONE SIDE HILL CONSTRUCTION
- 53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
- 54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS



**ISSUED FOR CONSTRUCTION**

**HOLLAND ENGINEERING**

2500 New River Road, Suite 2  
 28055 Englewood, NC 28055  
 Tel: 704-252-5500 Fax: 704-252-2118 T: 248-827-2322 F: 248-827-7949  
 www.hollandengineering.com

**AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016**

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**APPROVED FOR FERC**

**Mountain Valley PIPELINE ALIGNMENT**

**MOUNTAIN VALLEY PROJECT - H600 LINE**

**C-3 PRECINCT., MONTGOMERY CO., VA.**

**STA. 11816+97 TO STA. 11859+34**

HORIZ. SCALE: 1" = 200'

DRAWN BY: HEI(DRF) 02/11/15

DRAFTING CK: .

ENGINEERING CK: .

CONSTRUCTION CK: .

ENVIRONMENTAL CK: .

AFE/P.O. NO.: .

HEI PROJECT NO.: 14-10-052

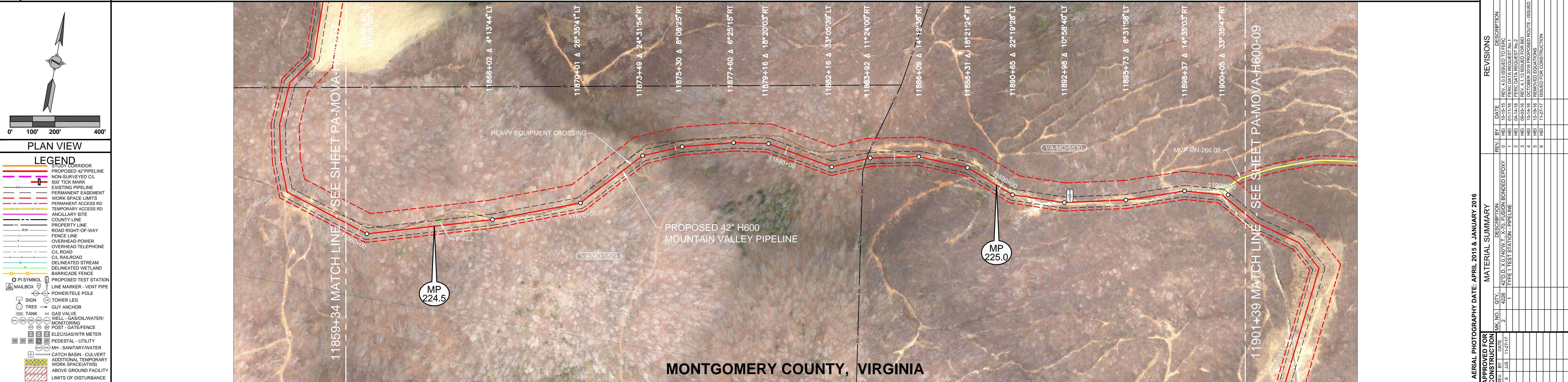
DRAWING NO.: PA-MOVA-H600-07

SHEET 246 OF 329 REV. 6

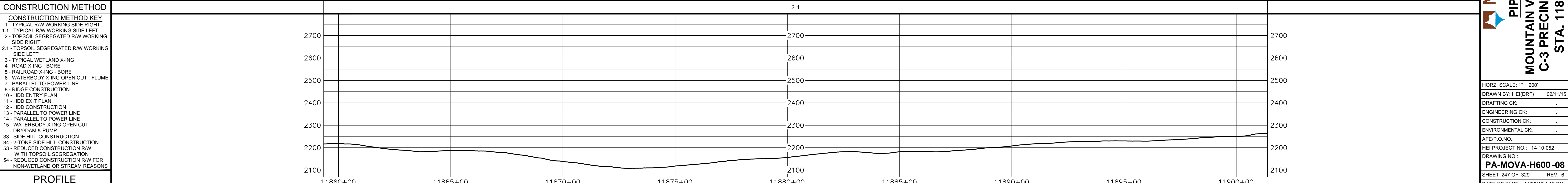
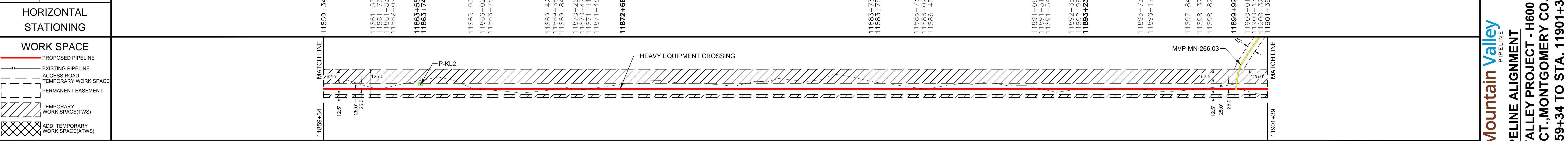
DATE OF PLOT: 11/29/17 4:16 PM



RIGHT-OF-WAY & OWNERSHIP DATA			
DESIGN	PIPE / COATING	11859+34	11901+39
	SLOPE DISTANCE	4226'	
	CLASS LOCATION / HCA	1	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS	
	WETLAND / STREAM	P-KL2 19 LF	



REFERENCE DRAWINGS	
DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-08	ACCESS ROAD DETAIL MAP
SSRA-H600-05	RECREATIONAL SITE SPECIFIC
SSRA-H600-06	RECREATIONAL SITE SPECIFIC
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING



CONSTRUCTION METHOD	
CONSTRUCTION METHOD KEY	
1 - TYPICAL R/W WORKING SIDE RIGHT	
1.1 - TYPICAL R/W WORKING SIDE LEFT	
2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT	
2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT	
3 - TYPICAL WETLAND X-ING	
4 - ROAD X-ING - BORE	
5 - RAILROAD X-ING - BORE	
6 - WATERBODY X-ING OPEN CUT - FLUME	
7 - PARALLEL TO POWER LINE	
8 - RIDGE CONSTRUCTION	
10 - HDD ENTRY PLAN	
11 - HDD EXIT PLAN	
12 - HDD CONSTRUCTION	
13 - PARALLEL TO POWER LINE	
14 - PARALLEL TO POWER LINE	
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP	
33 - SIDE HILL CONSTRUCTION	
34 - 2-TONE SIDE HILL CONSTRUCTION	
53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION	
54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS	

PROFILE	
---------	--

**ISSUED FOR CONSTRUCTION**

**HOLLAND ENGINEERING**

2005 New River Road, Suite 200  
Farmingdale, NY 11737  
Tel: 631-282-5000 Fax: 631-282-2118 T: 248-827-2322 F: 248-827-7949  
www.hollandengineering.com

**Mountain Valley Pipeline**

**PIPELINE ALIGNMENT**

**MOUNTAIN VALLEY PROJECT - H600 LINE**

**C-3 PRECINCT., MONTGOMERY CO., VA.**

**STA. 11859+34 TO STA. 11901+39**

REV. NO.	DATE	DESCRIPTION
0	10-15-15	REV. 4.0 ISSUED TO PERC
1	01-15-16	PERC DATA REQUEST NO. 1
2	04-22-16	REV. 4.1 ISSUED FOR BID
3	04-22-16	REV. 4.1.1 ISSUED FOR BID
4	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO PERC
5	10-14-16	REMOVED EASEMENTS
6	11-27-17	ISSUED FOR CONSTRUCTION

REV. NO.	DATE	DESCRIPTION
0	03-11-2017	
1	03-11-2017	
2	03-11-2017	
3	03-11-2017	
4	03-11-2017	
5	03-11-2017	
6	03-11-2017	
7	03-11-2017	
8	03-11-2017	
9	03-11-2017	
10	03-11-2017	
11	03-11-2017	
12	03-11-2017	
13	03-11-2017	
14	03-11-2017	
15	03-11-2017	
16	03-11-2017	
17	03-11-2017	
18	03-11-2017	
19	03-11-2017	
20	03-11-2017	
21	03-11-2017	
22	03-11-2017	
23	03-11-2017	
24	03-11-2017	
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38	03-11-2017	
39	03-11-2017	
40	03-11-2017	
41	03-11-2017	
42	03-11-2017	
43	03-11-2017	
44	03-11-2017	
45	03-11-2017	
46	03-11-2017	
47	03-11-2017	
48	03-11-2017	
49	03-11-2017	
50	03-11-2017	

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**APPROVED FOR PERC**

**DATE: APRIL 2015 & JANUARY 2016**

**SCALE: 1" = 200'**

**DRAWN BY: HEI(DRF) 02/11/15**

**DRAFTING CK:**

**ENGINEERING CK:**

**CONSTRUCTION CK:**

**ENVIRONMENTAL CK:**

**AFEP.O.NO.:**

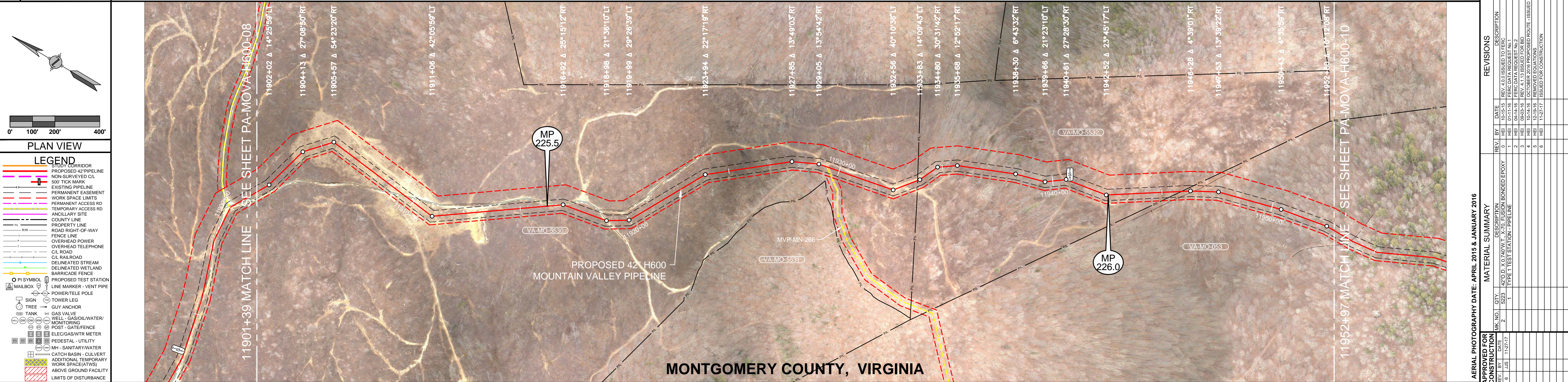
**HEI PROJECT NO.: 14-10-052**

**DRAWING NO.: PA-MOVA-H600-08**

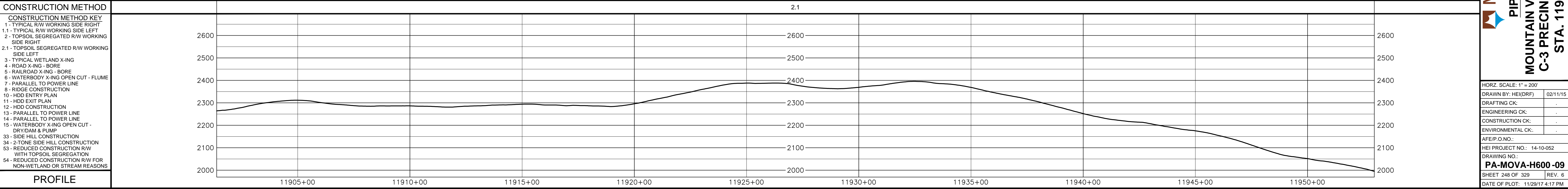
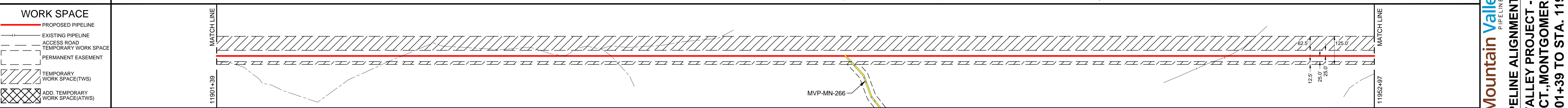
**SHEET 247 OF 329 REV. 6**

**DATE OF PLOT: 11/29/17 4:16 PM**

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-5530	VA-MO-5530	VA-MO-5530	VA-MO-5532	VA-MO-5531
DESIGN	PIPE / COATING	3218 LF 328 SLOPE	58 LF 56 SLOPE	1089 LF 1105 SLOPE	265 LF 264 SLOPE	544 LF 558 SLOPE
DESIGN	SLOPE DISTANCE		2			
DESIGN	CLASS LOCATION / HCA		5223'			
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS				
ENVIRONMENTAL	WETLAND / STREAM					



REFERENCE DRAWINGS	
DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-08	ACCESS ROAD DETAIL MAP
MVP-QDAR-H600-09	ACCESS ROAD DETAIL MAP
SSRA-H600-06	RECREATIONAL SITE SPECIFIC
RSS-H600-138	RESIDENTIAL SITE SPECIFIC
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING



**HOLLAND ENGINEERING**  
 2202 Hoover Boulevard, Suite 2  
 26056 Englewood, VA  
 Tel: 540-582-5008 Fax: 540-582-2118  
 www.hollandengineering.com

REVISIONS	
NO.	DESCRIPTION
0	REV. 4.0.0 ISSUED TO PERC
1	REV. 01-11-16 PERC DATA REQUEST NO. 1
2	REV. 06-24-16 REV. 4.1.13 ISSUED FOR BID
3	REV. 10-14-16 OCTOBER 2016 PROPOSED ROUTE - ISSUED TO PERC
4	REV. 10-14-16 REVISED EASEMENTS
5	REV. 10-14-16 REVISED EASEMENTS
6	REV. 11-22-17 ISSUED FOR CONSTRUCTION

MATERIAL SUMMARY	
QTY.	DESCRIPTION
5223	42\"/>
1	TYPE 1 TEST STATION - PIPELINE

APPROVED FOR CONSTRUCTION	
REV.	DATE
0	JUN 11 2017
1	JUN 11 2017

APPROVED FOR PERC	
REV.	DATE
0	JUN 11 2017
1	JUN 11 2017
2	JUN 11 2017
3	JUN 11 2017
4	JUN 11 2017
5	JUN 11 2017
6	JUN 11 2017

**Mountain Valley PIPELINE**  
**PIPELINE ALIGNMENT**  
**MOUNTAIN VALLEY PROJECT - H600 LINE**  
**C-3 PRECINCT., MONTGOMERY CO., VA.**  
**STA. 11901+39 TO STA. 11952+97**

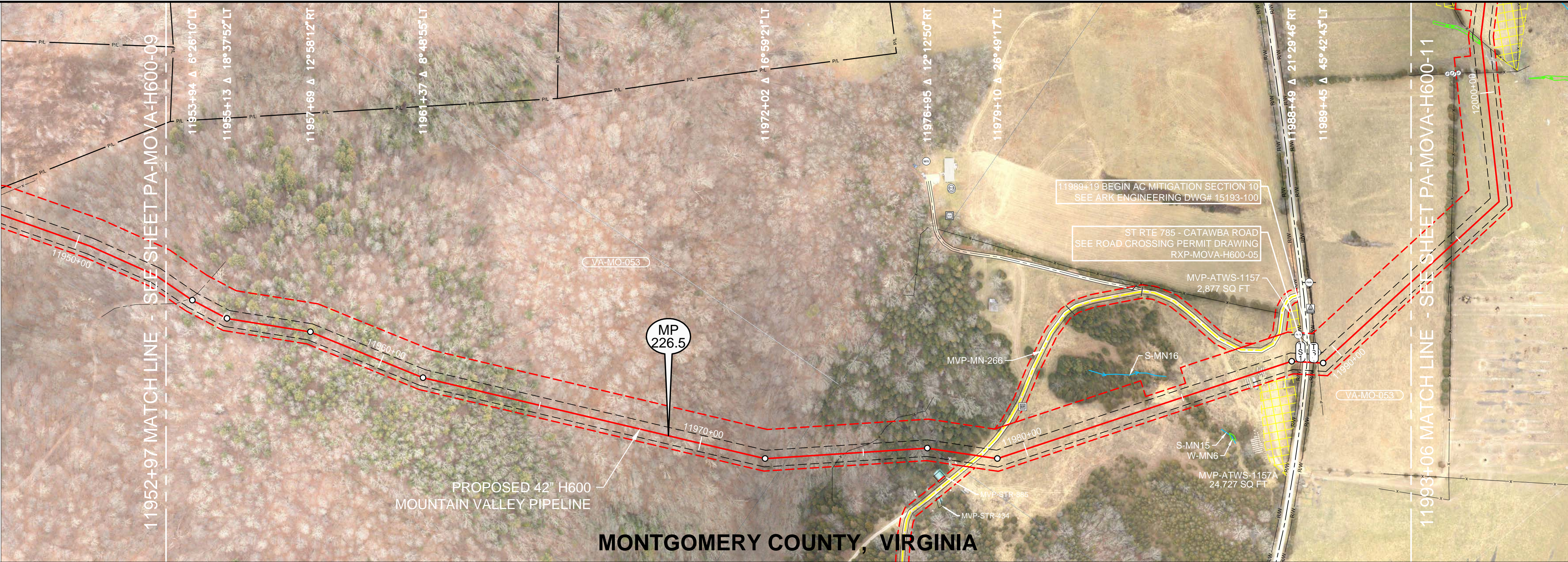
HORZ. SCALE: 1" = 200'
DRAWN BY: HEI(DRF) 02/11/15
DRAFTING CK:
ENGINEERING CK:
CONSTRUCTION CK:
ENVIRONMENTAL CK:
DATE OF PLOT: 11/29/17 4:17 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-053		VA-MO-053	
DESIGN	PIPE / COATING	11952+97	11952+97	2	3596'
	SLOPE DISTANCE				
	CLASS LOCATION / HCA	1			
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS			
	WETLAND / STREAM				

**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED 42" PIPELINE
- NON-SURVEYED C.L.
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C.L. ROAD
- C.L. RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- SIGN
- TOWER LEG
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE



**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
RXP-MOVA-H600-05	STATE ROUTE 785 PERMIT DWG
P-W-H600-1204-01	CATACING PROTECTION STANDARD DRAWING
15193-100	ARK ENGINEERING AC MITIGATION DESIGN

**HORIZONTAL STATIONING**

11952+97 MATCH LINE

11953+80 EDGE OF DIRT

11953+86 E. TRAIL(DIRT)

11953+91 EDGE OF DIRT

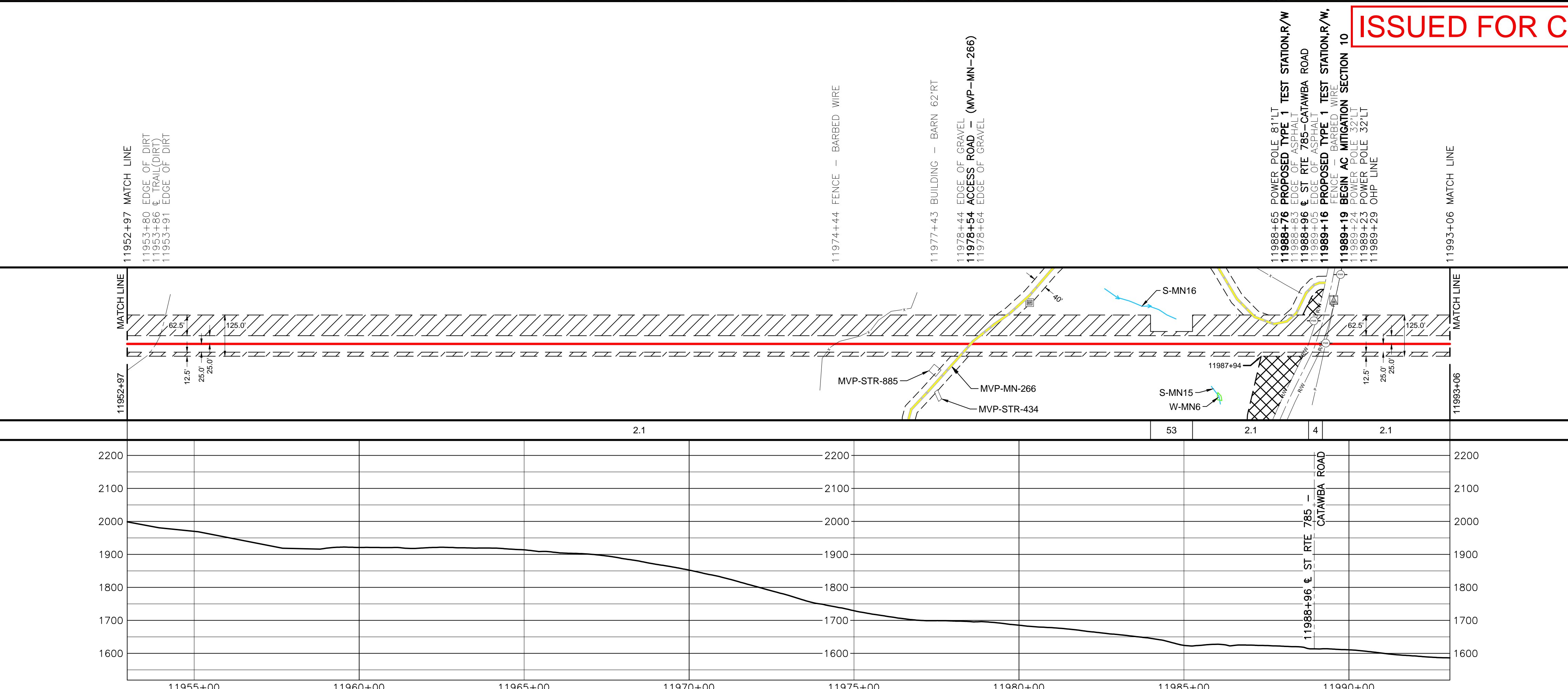
**WORK SPACE**

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD
- TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)

**CONSTRUCTION METHOD**

**CONSTRUCTION METHOD KEY**

- TYPICAL R/W WORKING SIDE RIGHT
- TYPICAL R/W WORKING SIDE LEFT
- TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
- TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
- TYPICAL WETLAND X-ING
- ROAD X-ING - BORE
- RAILROAD X-ING - BORE
- WATERBODY X-ING OPEN CUT - FLUME
- PARALLEL TO POWER LINE
- RIDGE CONSTRUCTION
- HDD ENTRY PLAN
- HDD EXIT PLAN
- HDD CONSTRUCTION
- PARALLEL TO POWER LINE
- PARALLEL TO POWER LINE
- WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
- SIDE HILL CONSTRUCTION
- 2-TONE SIDE HILL CONSTRUCTION
- REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
- REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS



**PROFILE**

**REVISIONS**

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-15-16	FERC DATA REQUEST NO. 1
2	HEI	06-02-16	REV. 4.1.13 ISSUED FOR BID
3	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
4	HEI	12-14-17	REMOVED EASEMENTS
5	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**MATERIAL SUMMARY**

QTY.	DESCRIPTION
2	3988 42" O.D. X 0.740" W.T. X-70, FUSION BONDED EPOXY
4	40 42" O.D. X 0.740" W.T. X-70, FIBER & ARD
2	1" PIPE TEST STATION - PIPELINE

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

REV.	DATE
0	08-24-16
1	11-27-17
2	08-24-16
3	08-24-16
4	10-14-16
5	11-27-17
6	11-27-17

**APPROVED FOR FERC**

REV.	DATE
0	08-24-16
1	10-14-16
2	10-14-16
3	10-14-16
4	10-14-16
5	11-27-17
6	11-27-17

**Mountain Valley Pipeline**

**PIPELINE ALIGNMENT**

**MOUNTAIN VALLEY PROJECT - H600 LINE**

**C-3 PRECINCT., MONTGOMERY CO., VA.**

**STA. 11952+97 TO STA. 11993+06**

HORIZ. SCALE: 1" = 200'

DRAWN BY: HEI(DRF) 02/11/15

DRAFTING CK: .

ENGINEERING CK: .

CONSTRUCTION CK: .

ENVIRONMENTAL CK: .

AFE/P.O. NO.: .

HEI PROJECT NO.: 14-10-052

DRAWING NO.: **PA-MOVA-H600-10**

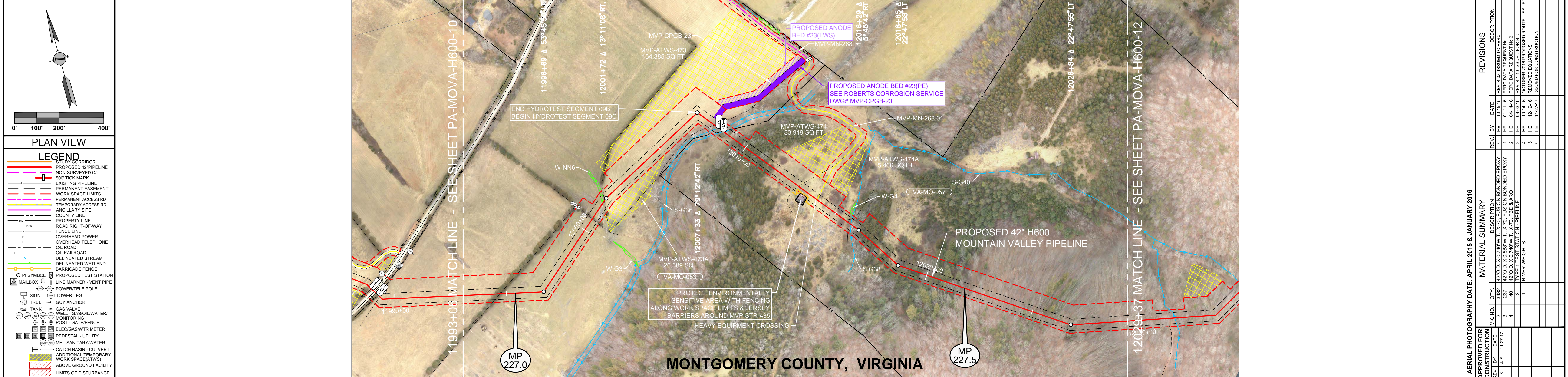
SHEET 249 OF 329 REV. 6

DATE OF PLOT: 12/11/17 10:18 AM

**HOLLAND ENGINEERING**

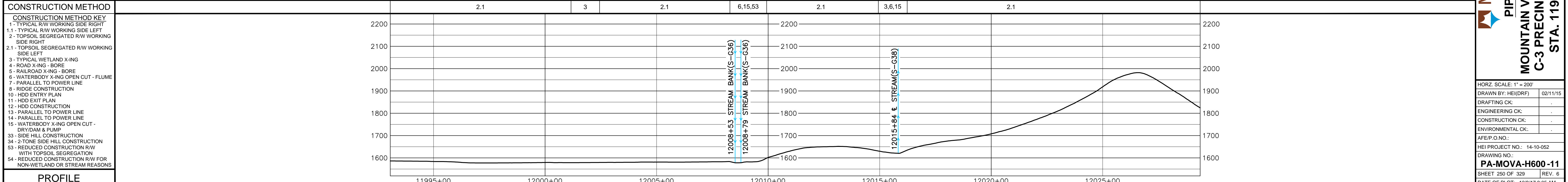
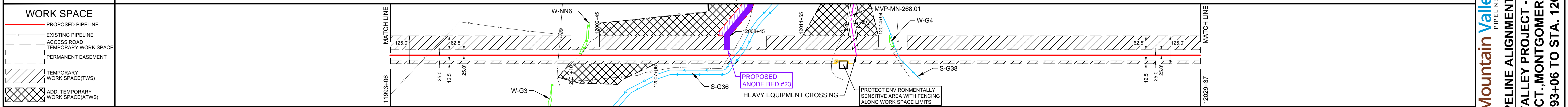
2500 Hoover Boulevard, Suite 200  
 11802-5208 VA F 410-302-2111 T 248-827-2322 F 248-827-7549  
 www.hollandengineering.com

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-053		VA-MO-057		VA-MO-057	
DESIGN	PIPE / COATING	2		3		2	
	SLOPE DISTANCE	946'		237'		357'	
	CLASS LOCATION / HCA	1					
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS		T.O.Y.R.: NO CONSTRUCTION WITHIN STREAMS S-G36 & S-G38 OCTOBER 1ST TO JUNE 30TH & FISH RELOCATION REQUIRED CONSULT RESPONSIBLE E.I., MUSSEL RELOCATION WITH STREAM S-G36 TO BE COMPLETED BETWEEN MAY 1ST AND SEPT 30TH		TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS	
	WETLAND / STREAM	W-NN6 29 LF		S-G36 26 LF		S-G38 3 LF	



REFERENCE DRAWINGS	
DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-08	ACCESS ROAD DETAIL MAP
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING
MVP-CPGB-23	ROBERTS CORROSION SERVICE DRAWING
15193-100	ARK ENGINEERING AC MITIGATION DESIGN

HORIZONTAL STATIONING	
11993+06	11994+72
12000+61	12000+67
12000+69	12000+71
12001+50	12001+79
12004+23	12008+53
12008+53	12008+64
12008+64	12008+76
12008+76	12008+79
12014+55	12015+84
12015+84	12029+37



CONSTRUCTION METHOD	
CONSTRUCTION METHOD KEY	
1	TYPICAL R/W WORKING SIDE RIGHT
1.1	TYPICAL R/W WORKING SIDE LEFT
2	TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
2.1	TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
3	TYPICAL WETLAND X-ING
4	ROAD X-ING - BORE
5	RAILROAD X-ING - BORE
6	WATERBODY X-ING OPEN CUT - FLUME
7	PARALLEL TO POWER LINE
8	RIDGE CONSTRUCTION
10	HDD ENTRY PLAN
11	HDD EXIT PLAN
12	HDD CONSTRUCTION
13	PARALLEL TO POWER LINE
14	PARALLEL TO POWER LINE
15	WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33	SIDE HILL CONSTRUCTION
34	2-TONE SIDE HILL CONSTRUCTION
53	REDUCED CONSTRUCTION R/W
54	REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS

PROFILE	
2200	2100
2000	1900
1800	1700
1600	1600

**ISSUED FOR CONSTRUCTION**

2005 Hoover Boulevard, Suite 200  
Montgomery, Virginia 22061  
Tel: 703.582.5008 Fax: 703.582.2111  
www.hollandengineering.com

**Mountain Valley**  
PIPELINE ALIGNMENT  
**MOUNTAIN VALLEY PROJECT - H600 LINE**  
**C-3 PRECINCT., MONTGOMERY CO., VA.**  
**STA. 11993+06 TO STA. 12029+37**

**REVISIONS**

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST NO. 1
2	HEI	06-02-16	REV. 4.1.13 ISSUED FOR BID
3	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
4	HEI	10-14-16	REVISED EDITIONS
5	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**MATERIAL SUMMARY**

APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING	APPROVED FOR FERC	QTY.	DESCRIPTION
0	0	0	3482	42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY
0	0	0	237	42" O.D. X 0.885" W.T. X 70' FUSION BONDED EPOXY
0	0	0	2	1" TYPE 1 TEST STATION - PIPELINE
0	0	0	1	RIVER WEIGHTS

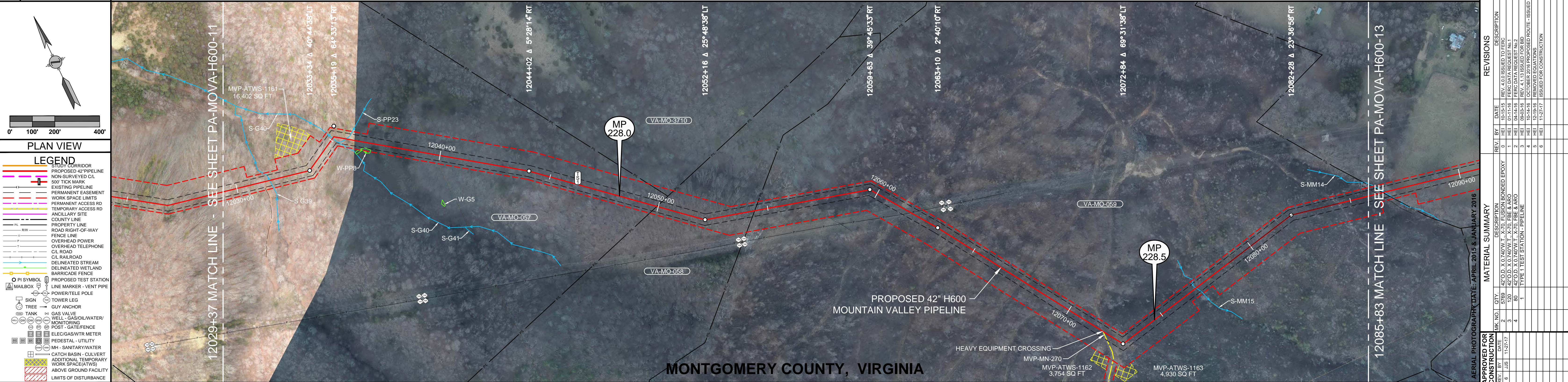
**AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016**

DATE: 02/11/15  
DRAWN BY: HEI(DRF)  
DRAFTING CK:  
ENGINEERING CK:  
CONSTRUCTION CK:  
ENVIRONMENTAL CK:

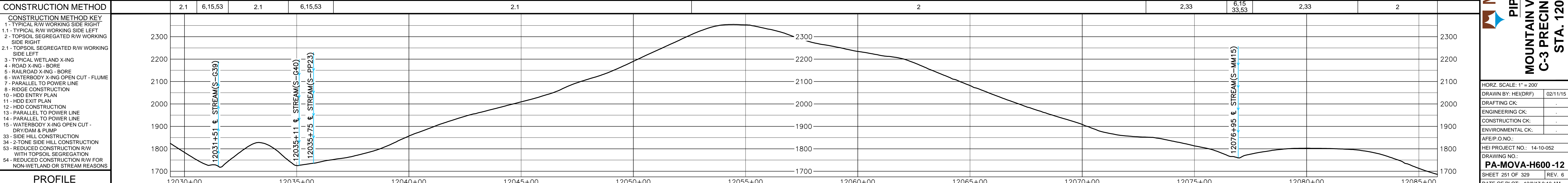
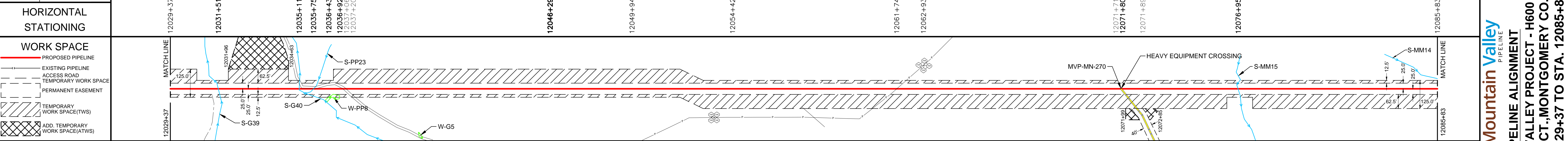
AFE/P.O. NO.:  
HEI PROJECT NO.: 14-10-052  
DRAWING NO.:  
**PA-MOVA-H600-11**  
SHEET 250 OF 329 REV. 6  
DATE OF PLOT: 12/8/17 9:05 AM

RIGHT-OF-WAY & OWNERSHIP DATA	VA-MO-057		VA-MO-3710		VA-MO-3710		VA-MO-3710		VA-MO-058		VA-MO-058		VA-MO-059		VA-MO-059	
PIPE / COATING	2		4		2		3		2		4		2		3	
SLOPE DISTANCE	223'		40'		3121'		80'		1574'		40'		734'		40'	
CLASS LOCATION / HCA					1											

ENVIRONMENTAL	T.O.Y.R.: NO CONSTRUCTION WITHIN STREAMS S-G39, S-G40 & S-PP23 OCT 1ST TO JUNE 30TH & FISH RELOCATION REQUIRED WITHIN STREAMS S-G40 & S-PP23 CONSULT RESPONSIBLE E.I.															
CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS															
WETLAND / STREAM	S-G39 6 LF		S-G40 3 LF		S-PP23 2.5 LF		W-PP8 49 LF		S-MM15 6 LF							

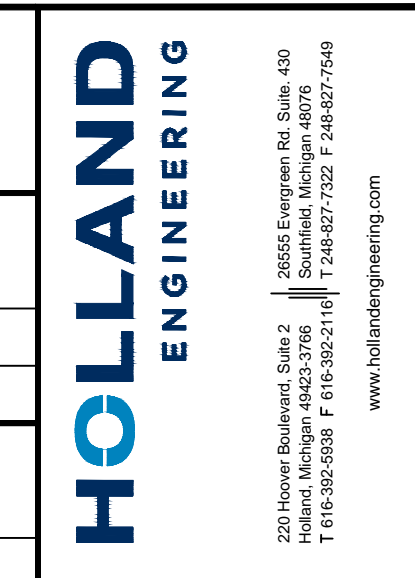


REFERENCE DRAWINGS	DRAWING NO. DESCRIPTION	
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES	
MVP-QDAR-H600-04	ACCESS ROAD DETAIL MAP	
P-W-H600-1204-01	CATACHTIC PROTECTION STANDARD DRAWING	
15193-100	ARK ENGINEERING AC MITIGATION DESIGN	



CONSTRUCTION METHOD	CONSTRUCTION METHOD KEY															
	1 - TYPICAL R/W WORKING SIDE RIGHT															
	1.1 - TYPICAL R/W WORKING SIDE LEFT															
	2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT															
	2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT															
	3 - TYPICAL WETLAND X-ING															
	4 - ROAD X-ING - BORE															
	5 - RAILROAD X-ING - BORE															
	6 - WATERBODY X-ING OPEN CUT - FLUME															
	7 - PARALLEL TO POWER LINE															
	8 - RIDGE CONSTRUCTION															
	10 - HDD ENTRY PLAN															
	11 - HDD EXIT PLAN															
	12 - HDD CONSTRUCTION															
	13 - PARALLEL TO POWER LINE															
	14 - PARALLEL TO POWER LINE															
	15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP															
	33 - SIDE HILL CONSTRUCTION															
	34 - 2-TONE SIDE HILL CONSTRUCTION															
	53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION															
	54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS															

PROFILE	DATE OF PLOT: 12/27/17 9:10 AM															
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REVISIONS		MATERIAL SUMMARY	
REV	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-15-16	FERC DATA REQUEST NO. 1
2	HEI	09-24-16	REV. 4.1.13 ISSUED FOR BID
3	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
4	HEI	10-14-16	REMOVED EASEMENTS
5	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**Mountain Valley**  
PIPELINE ALIGNMENT  
MOUNTAIN VALLEY PROJECT - H600 LINE  
C-3 PRECINCT., MONTGOMERY CO., VA.  
STA. 12029+37 TO STA. 12085+83

HORIZ. SCALE: 1" = 200'

DRAWN BY: HEI(DRF) 02/11/15

DRAFTING CK: .

ENGINEERING CK: .

CONSTRUCTION CK: .

ENVIRONMENTAL CK: .

AFE/P.O. NO.: .

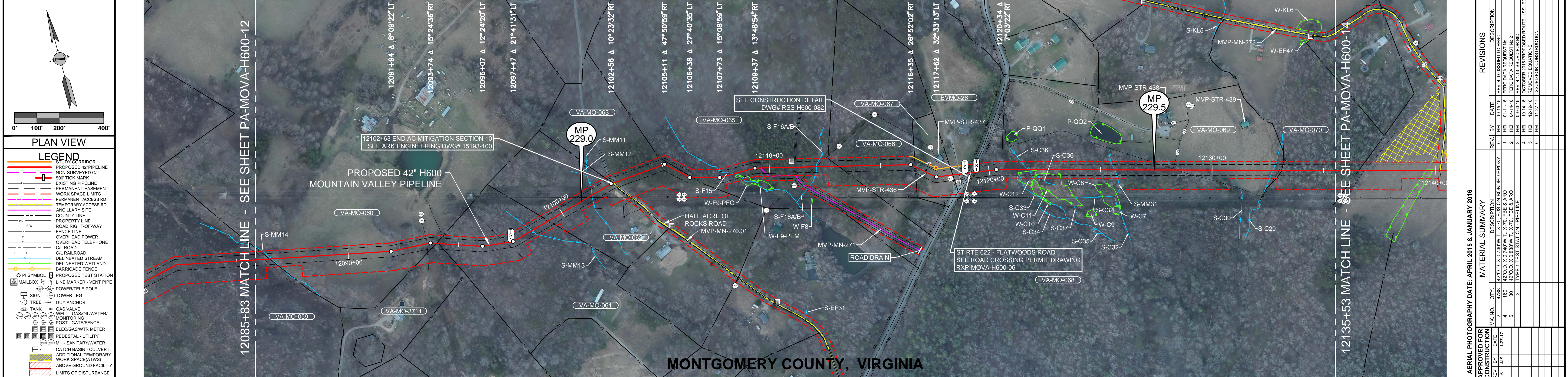
HEI PROJECT NO.: 14-10-052

DRAWING NO.: PA-MOVA-H600-12

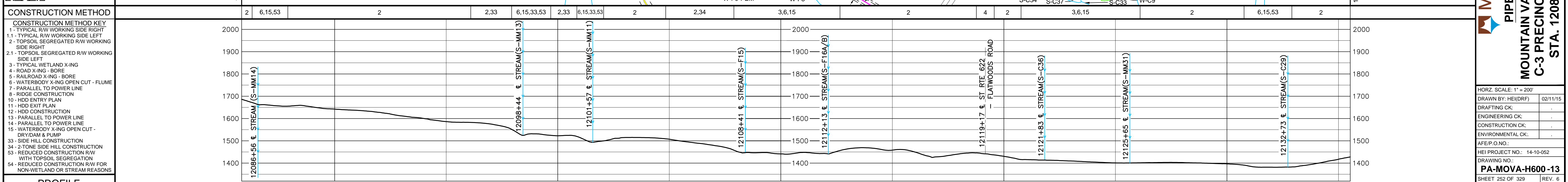
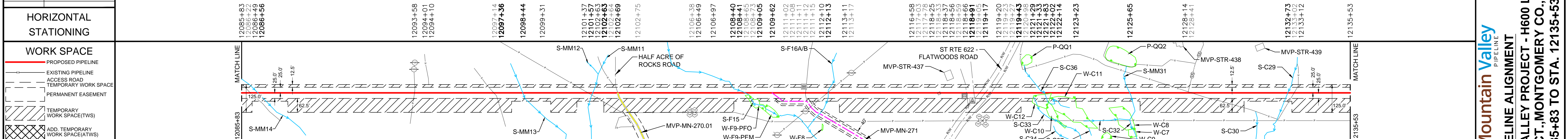
SHEET 251 OF 329 REV. 6

DATE OF PLOT: 12/27/17 9:10 AM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-059 VA-MO-060 VA-MO-061 VA-MO-062 VA-MO-063 VA-MO-064 VA-MO-065 VA-MO-066 VA-MO-067 VA-MO-068 VA-MO-069 VA-MO-070 VA-MO-071 VA-MO-072 VA-MO-073 VA-MO-074 VA-MO-075 VA-MO-076 VA-MO-077 VA-MO-078 VA-MO-079 VA-MO-080 VA-MO-081 VA-MO-082 VA-MO-083 VA-MO-084 VA-MO-085 VA-MO-086 VA-MO-087 VA-MO-088 VA-MO-089 VA-MO-090 VA-MO-091 VA-MO-092 VA-MO-093 VA-MO-094 VA-MO-095 VA-MO-096 VA-MO-097 VA-MO-098 VA-MO-099 VA-MO-100																														
DESIGN	PIPE / COATING	2																														
	SLOPE DISTANCE	1165'																														
	CLASS LOCATION / HCA	1																														
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS																														
	WETLAND / STREAM	S-MM14													S-MM13	S-MM11				W-F9-PFO	S-F15	S-F16A/B				W-C12	S-C33	S-C36	W-C11	S-MM31		



REFERENCE DRAWINGS	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-04	ACCESS ROAD DETAIL MAP
MVP-QDAR-H600-01	ACCESS ROAD DETAIL MAP
RXP-MOVA-H600-06	STATE ROUTE 622 PERMIT DWG
RSS-H600-082	RESIDENTIAL SITE SPECIFIC
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING
15193-100	ARK ENGINEERING AC MITIGATION DESIGN



CONSTRUCTION METHOD	CONSTRUCTION METHOD KEY
2	1 - TYPICAL R/W WORKING SIDE RIGHT
6, 15, 53	1.1 - TYPICAL R/W WORKING SIDE LEFT
2	2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
2, 33	2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
6, 15, 33, 53	3 - TYPICAL WETLAND X-ING
2, 33	4 - ROAD X-ING - BORE
6, 15, 33, 53	5 - RAILROAD X-ING - BORE
2, 33	6 - WATERBODY X-ING OPEN CUT - FLUME
6, 15, 33, 53	7 - PARALLEL TO POWER LINE
2, 33	8 - RIDGE CONSTRUCTION
6, 15, 33, 53	10 - HDD ENTRY PLAN
2, 33	11 - HDD EXIT PLAN
6, 15, 33, 53	12 - HDD CONSTRUCTION
2, 33	13 - PARALLEL TO POWER LINE
6, 15, 33, 53	14 - PARALLEL TO POWER LINE
2, 33	15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
6, 15, 33, 53	33 - SIDE HILL CONSTRUCTION
2, 33	34 - 2-TONE SIDE HILL CONSTRUCTION
6, 15, 33, 53	53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
2, 33	54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS

20055 Evergreen Rd. Suite 420  
Ft. Belknap, VA 22834  
Tel: 540-885-5500 Fax: 540-885-5501  
www.hollandengineering.com

REVISIONS	
NO.	DESCRIPTION
1	REV. 4.0.0 ISSUED TO PERC
2	REV. 4.0.0 ISSUED TO PERC
3	REV. 4.0.0 ISSUED TO PERC
4	REV. 4.0.0 ISSUED TO PERC
5	REV. 4.0.0 ISSUED TO PERC
6	REV. 4.0.0 ISSUED TO PERC

MATERIAL SUMMARY	
ITEM NO.	DESCRIPTION
1	42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY
2	42" O.D. X 0.740" W.T. X 70' FIBER & ARD
3	42" O.D. X 0.740" W.T. X 70' FIBER & ARD
4	42" O.D. X 0.740" W.T. X 70' FIBER & ARD
5	42" O.D. X 0.740" W.T. X 70' FIBER & ARD
6	42" O.D. X 0.740" W.T. X 70' FIBER & ARD

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

APPROVED FOR CONSTRUCTION

APPROVED FOR PERC

DATE: 11/29/17

ISSUED FOR CONSTRUCTION

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE

C-3 PRECINCT., MONTGOMERY CO., VA.

STA. 12085+83 TO STA. 12135+53

HORIZ. SCALE: 1" = 200'

DRAWN BY: HEI(DRF) 02/11/15

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

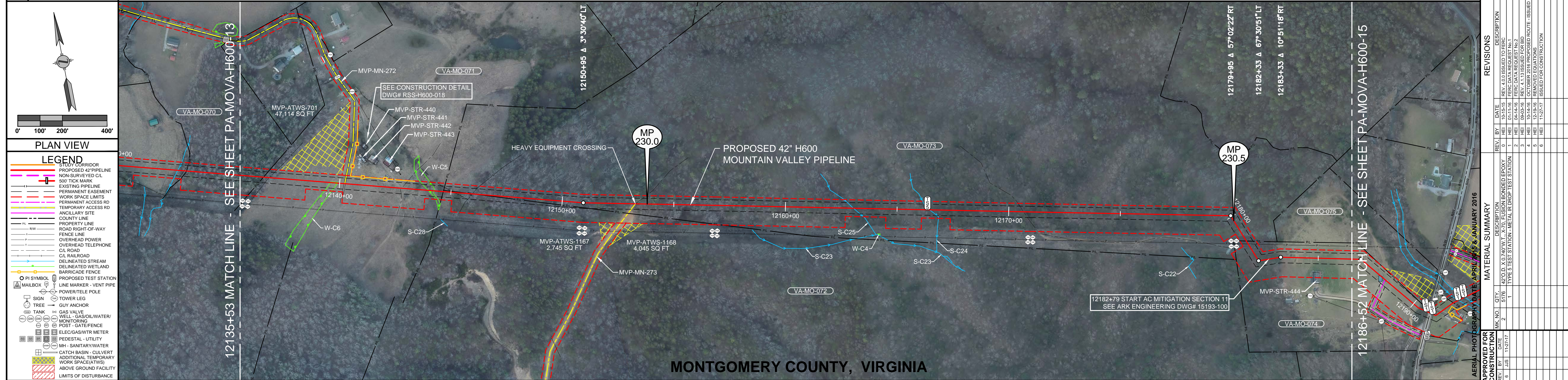
HEI PROJECT NO.: 14-10-052

DRAWING NO.: PA-MOVA-H600-13

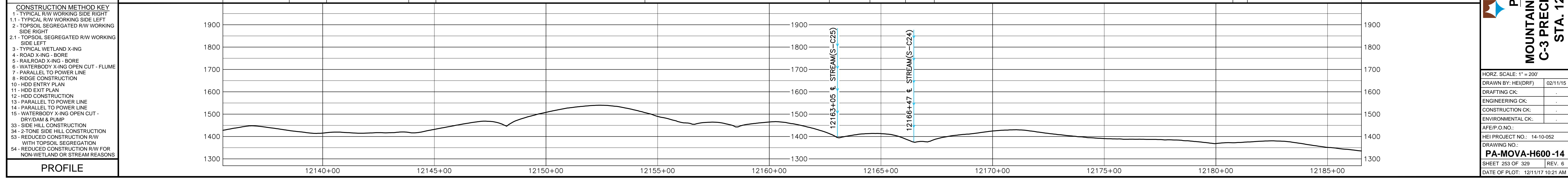
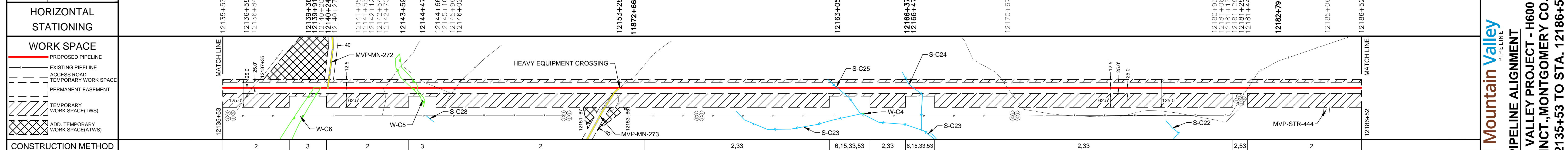
SHEET 252 OF 329 REV. 6

DATE OF PLOT: 11/29/17 4:18 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-070	VA-MO-070	VA-MO-071	VA-MO-072	VA-MO-073	VA-MO-074	VA-MO-074	VA-MO-074	VA-MO-074	
DESIGN	PIPE / COATING	41 LF 41 SLOPE	92 LF 93 SLOPE	780 LF 754 SLOPE	1248 LF 1282 SLOPE	2398 LF 2431 SLOPE	59 LF 60 SLOPE	96 LF 16 SLOPE	465 LF 469 SLOPE	12186+52	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS				T.O.Y.R. - NO CONSTRUCTION WITHIN STREAMS S-C25 & S-C24 APRIL 1ST TO JUNE 30TH		TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS			12186+52
	WETLAND / STREAM	W-C6 55 LF	W-C5 88 LF	W-C5 88 LF	S-C25 3 LF	S-C24 3 LF				12186+52	



REFERENCE DRAWINGS	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-2048-H600-01	ACCESS ROAD DETAIL MAP
RSS-H600-018	RESIDENTIAL SITE SPECIFIC
RSS-H600-038	RESIDENTIAL SITE SPECIFIC
P-W-H600-1204-02	CATHODIC PROTECTION
15193-100	STANDARD DRAWING
	ARK ENGINEERING
	AC MITIGATION DESIGN



**HOLLAND ENGINEERING**  
 2000 Hoover Boulevard, Suite 2  
 Raleigh, NC 27605  
 T: 919.852.5008 F: 919.852.2111 W: www.hollandengineering.com

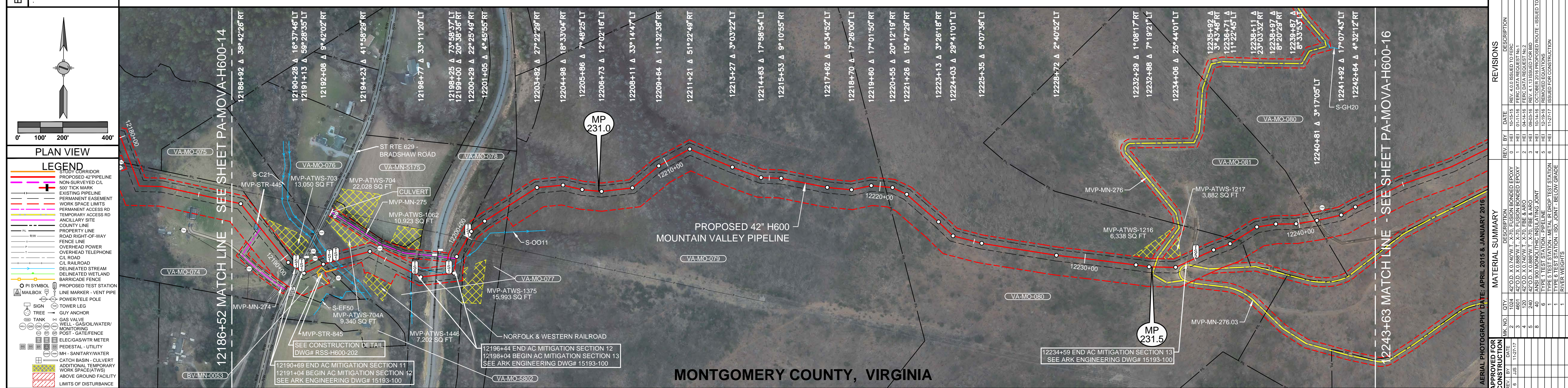
REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-13-16	FERC DATA REQUEST NO. 1
2	HEI	09-02-16	REV. 4.1.0 ISSUED FOR BID
3	HEI	09-02-16	REV. 4.1.13 ISSUED FOR BID
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
5	HEI	12-15-16	REVISED EMISSIONS
6	HEI	11-21-17	ISSUED FOR CONSTRUCTION

APPROVED FOR CONSTRUCTION	DATE
HEI	11-27-17
APPROVED FOR BIDDING	DATE
HEI	09-02-16
HEI	11-27-17

**Mountain Valley PIPELINE**  
**PIPELINE ALIGNMENT**  
**MOUNTAIN VALLEY PROJECT - H600 LINE**  
**C-3 PRECINCT., MONTGOMERY CO., VA.**  
**STA. 12135+53 TO STA. 12186+52**

HORIZ. SCALE: 1" = 200'  
 DRAWN BY: HEI(DRF) 02/11/15  
 DRAFTING CK: .  
 ENGINEERING CK: .  
 CONSTRUCTION CK: .  
 ENVIRONMENTAL CK: .  
 AFE P.O. NO.:  
 HEI PROJECT NO.: 14-10-052  
 DRAWING NO.:  
**PA-MOVA-H600-14**  
 SHEET 253 OF 329 REV. 6  
 DATE OF PLOT: 12/11/17 10:21 AM

RIGHT-OF-WAY & OWNERSHIP DATA		
DESIGN	PIPE / COATING	
SLOPE DISTANCE	401'	
CLASS LOCATION / HCA	2	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-C21 OCT 1ST - JUNE 30TH & FISH RELOCATION REQUIRED CONSULT RESPONSIBLE E.I.
WETLAND / STREAM	S-C21	
	30 LF	
	S-O011	
	2 LF	
	S-O011	
	2 LF	
		1
		4509'
		291'
		1224N43
		1224N43



REFERENCE DRAWINGS
DRAWING NO. - DESCRIPTION
MVP-AR-H600-13 ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-DR-H600-02 ACCESS ROAD DETAIL MAP
MVP-DR-H600-03 ACCESS ROAD DETAIL MAP
RSS-H600-202 RESIDENTIAL SITE SPECIFIC CATHODIC PROTECTION
P-W-H600-1204-01 STANDARD DRAWING
P-W-H600-1204-02 CATHODIC PROTECTION STANDARD DRAWING
15193-100 ARK ENGINEERING AC MITIGATION DESIGN

HORIZONTAL STATIONING
12186+52 MATCH LINE
12188+07 BEGIN BUILDING - SHED
12189+17 END BUILDING - SHED
12188+54 ACCESS RD - PERMANENT (MVP-MN-274)
12190+00 PROPOSED TYPE 1 TEST STATION
12191+04 END AC MITIGATION SECTION 11
12191+00 BEGIN AC MITIGATION SECTION 12
12191+04 PROPOSED TYPE 1 TEST STATION
12191+43 MALIBOX 88' x 97' RT
12191+46 EDGE OF GRAVEL
12191+47 SIGN 45'L
12191+86 WELL - WATER 39'L
12191+90 PEDESTAL - TELEPHONE 71'L
12191+93 BUILDING - OL HOUSE 14' RT
12192+10 PROPERTY LINE
12192+36 STREAM BANK(S-C21)
12192+44 PROPOSED TYPE 1 TEST STATION
12192+49 PROPOSED RIVER WEIGHT - STREAM
12192+66 POWER POLE 77' RT
12192+66 PROPOSED TYPE 1 TEST STATION
12194+40 PROPOSED TYPE 1 TEST STATION
12194+57 POWER POLE 32'L
12194+63 GUY ANCHOR 40'L
12194+65 OHP LINE
12194+74 STREAM(S-O011)
12196+44 END AC MITIGATION SECTION 12
12196+48 PROPOSED TYPE 6 TEST STATION
12197+19 CULVERT OPEN END 11'L
12197+21 TOE OF BALLAST
12197+43 RAILROAD(RAIL)
12197+46 SIGN 74'L(TO RAIL)
12197+46 TOE OF BALLAST
12197+55 TOE OF BALLAST
12197+74 CULVERT OPEN END 31'L
12198+03 PROPOSED TYPE 1 TEST STATION
12198+04 BEGIN AC MITIGATION SECTION 13
12198+04 PROPOSED TYPE 11 TEST STATION
12198+65 CULVERT OPEN END 41' RT
12198+86 EDGE OF GRAVEL
12198+94 SIGN 75'L
12199+00 SIGN 75'L
12199+81 OHP LINE
12200+00 PROPOSED TYPE 1 TEST STATION
12202+34 PROPERTY LINE

WORK SPACE
PROPOSED PIPELINE
EXISTING PIPELINE
ACCESS ROAD
TEMPORARY WORK SPACE
PERMANENT EASEMENT
TEMPORARY WORK SPACE(TWS)
ADD. TEMPORARY WORK SPACE(ATWS)

CONSTRUCTION METHOD
CONSTRUCTION METHOD KEY
1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE LEFT
2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
3 - TYPICAL WETLAND X-ING
4 - ROAD X-ING - BORE
5 - RAILROAD X-ING - BORE
6 - WATERBODY X-ING OPEN CUT - FLUME
7 - PARALLEL TO POWER LINE
8 - RIDGE CONSTRUCTION
10 - HDD ENTRY PLAN
11 - HDD EXIT PLAN
12 - HDD CONSTRUCTION
13 - PARALLEL TO POWER LINE
14 - PARALLEL TO POWER LINE
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2 TONE SIDE HILL CONSTRUCTION
54 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS

PROFILE
12190+00
12195+00
12200+00
12205+00
12210+00
12215+00
12220+00
12225+00
12230+00
12235+00
12240+00

REVISIONS			
REV.	BY	DATE	DESCRIPTION
0		10-15-15	REV. 4.0.0 ISSUED TO PER
1	HEI	01-11-16	PERC DATA REVISED
2	HEI	06-24-16	REV. 4.1.1 ISSUED FOR BID
3	HEI	06-24-16	REV. 4.1.1 ISSUED FOR BID
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO PERC
5	HEI	10-19-16	REVISED EDITIONS
6	HEI	11-21-17	ISSUED FOR CONSTRUCTION

MATERIAL SUMMARY		
PKT NO.	QTY.	DESCRIPTION
2	1024	42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY
3	4601	42" O.D. X 0.888" W.T. X 270' FUSION BONDED EPOXY
5	240	42" O.D. X 0.888" W.T. X 70' F.F.E & A.R.O.
6	40	ATSI 300 MONOLITHIC INSULATING JOINT
6	6	TYPE 1 TEST STATION, PIPELINE
6	6	TYPE 6 TEST STATION, ISO. JOINT (BELOW GRADE)
1	1	RIVER WEIGHTS

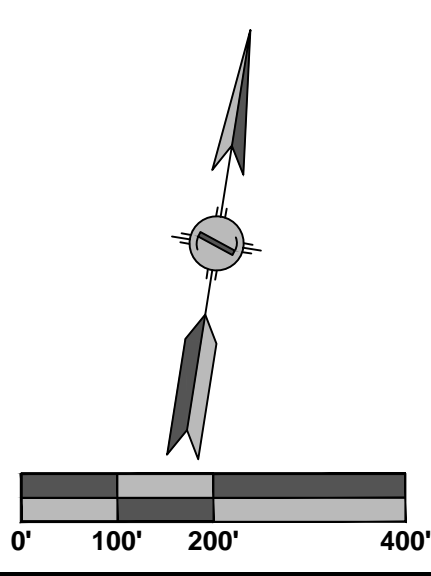
APPROVED FOR CONSTRUCTION	
DATE: 11/27/17	BY: HEI

APPROVED FOR BIDDING	
DATE: 04/26/16	BY: HEI

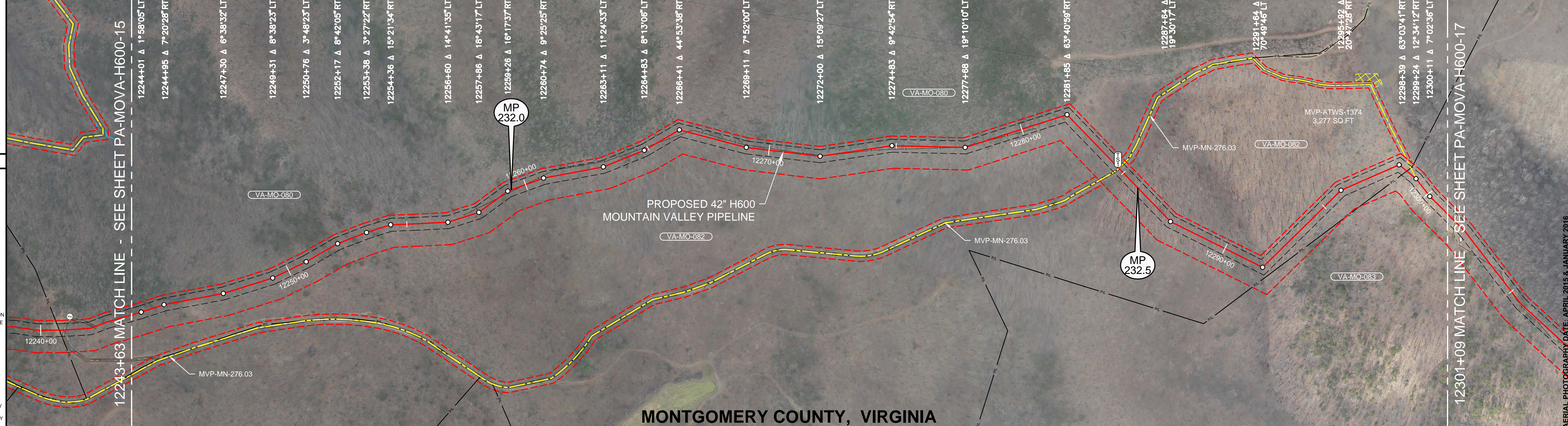
APPROVED FOR PERC	
DATE: 10-15-15	BY: HEI
DATE: 01-14-16	BY: HEI
DATE: 11-27-17	BY: HEI



RIGHT-OF-WAY & OWNERSHIP DATA	
DESIGN	PIPE / COATING 2
	SLOPE DISTANCE 6015'
	CLASS LOCATION / HCA 1
ENVIRONMENTAL	CONSTRUCTION EXCLUSION
	WETLAND / STREAM



LEGEND	
	STUDY CORRIDOR

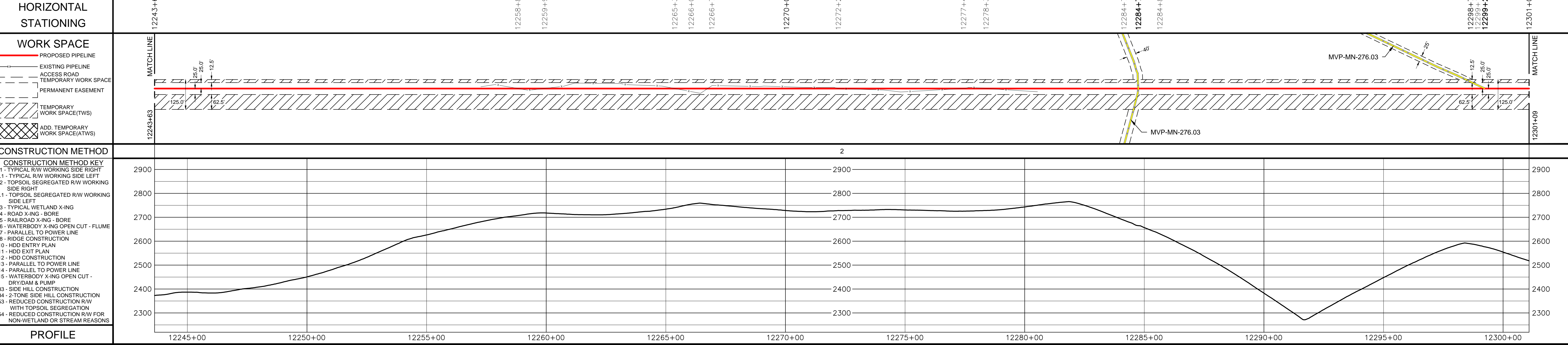


REFERENCE DRAWINGS	
DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAS-H600-03	ACCESS ROAD DETAIL MAP
P-W-H600-1204-01	CATACHTIC PROTECTION STANDARD DRAWING

**ISSUED FOR CONSTRUCTION**

HORIZONTAL STATIONING	
12243+63 MATCH LINE	12244+01 Δ 1°58'05\"/>
	12244+95 Δ 7°20'26\"/>
	12247+30 Δ 6°38'32\"/>
	12249+31 Δ 8°38'23\"/>
	12250+76 Δ 3°48'23\"/>
	12252+17 Δ 8°42'05\"/>
	12253+38 Δ 3°27'22\"/>
	12254+36 Δ 15°21'34\"/>
	12256+60 Δ 14°41'35\"/>
	12257+86 Δ 18°43'17\"/>
	12259+26 Δ 16°17'37\"/>
	12260+74 Δ 9°25'25\"/>
	12263+11 Δ 11°24'33\"/>
	12264+83 Δ 8°13'06\"/>
	12266+41 Δ 4°53'38\"/>
	12269+11 Δ 7°52'00\"/>
	12272+00 Δ 15°09'27\"/>
	12274+83 Δ 9°42'54\"/>
	12277+68 Δ 19°10'10\"/>
	12281+85 Δ 63°40'59\"/>
	12287+64 Δ 19°30'17\"/>
	12291+64 Δ 70°49'46\"/>
	12295+92 Δ 20°47'25\"/>
	12298+39 Δ 63°03'41\"/>
	12299+24 Δ 12°34'12\"/>
	12300+11 Δ 7°02'36\"/>
	12301+09 MATCH LINE

WORK SPACE	
	PROPOSED PIPELINE
	EXISTING PIPELINE
	ACCESS ROAD
	PERMANENT EASEMENT
	TEMPORARY WORK SPACE (TWS)
	ADD. TEMPORARY WORK SPACE (ATWS)



REVISIONS	
REV.	DESCRIPTION
0	REV. 4.0.0 ISSUED TO PERC
1	REV. 4.0.0 PERC DATA REQUEST NO. 1
2	REV. 4.0.0 PERC DATA REQUEST NO. 2
3	REV. 4.0.0 PERC DATA REQUEST NO. 3
4	REV. 4.0.0 PERC DATA REQUEST NO. 4
5	REV. 4.0.0 PERC DATA REQUEST NO. 5
6	REV. 4.0.0 PERC DATA REQUEST NO. 6

MATERIAL SUMMARY	
QTY.	DESCRIPTION
6015	42\"/>
1	TYPE 1 TEST STATION - PIPELINE

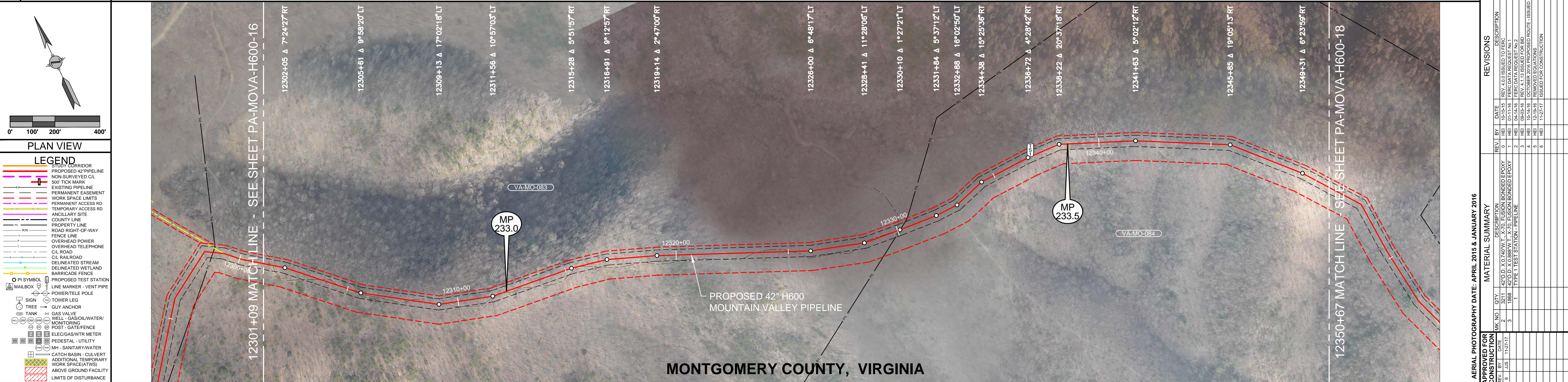
APPROVED FOR CONSTRUCTION	
DATE	DESCRIPTION
11/27/17	ISSUED FOR CONSTRUCTION

**Mountain Valley PIPELINE ALIGNMENT**  
**MOUNTAIN VALLEY PROJECT - H600 LINE**  
**C-3 PRECINCT., MONTGOMERY CO., VA.**  
**STA. 12243+63 TO STA. 12301+09**

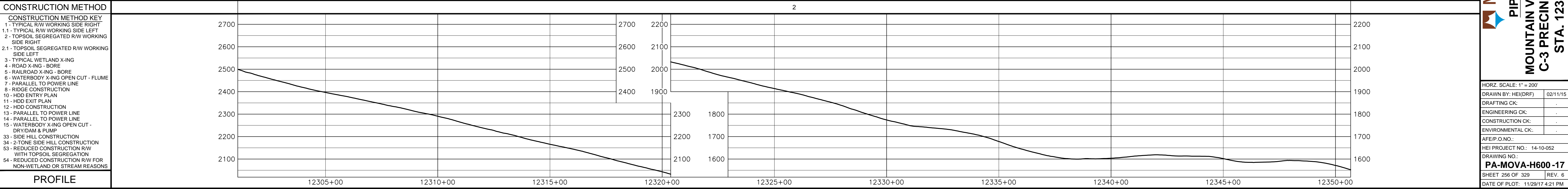
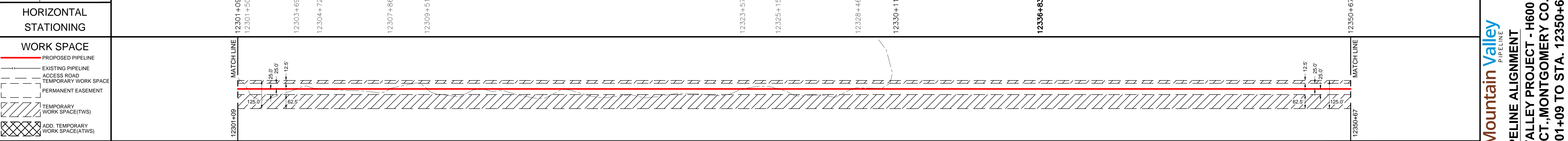
HORIZ. SCALE: 1" = 200'  
DRAWN BY: HEI(DRF) 02/11/15  
DRAFTING CK:  
ENGINEERING CK:  
CONSTRUCTION CK:  
ENVIRONMENTAL CK:  
AFEP.O.NO.:  
HEI PROJECT NO.: 14-10-052  
DRAWING NO.:  
**PA-MOVA-H600-16**  
SHEET 255 OF 329 REV. 6  
DATE OF PLOT: 12/8/17 8:41 AM



RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-083		VA-MO-083		VA-MO-083	
DESIGN	PIPE / COATING	12301+09	12301+09	12330+25	12330+25	12350+67	12350+67
	SLOPE DISTANCE			3211'		1868'	
	CLASS LOCATION / HCA			1			
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS					
	WETLAND / STREAM						



REFERENCE DRAWINGS		DRAWING NO.		DESCRIPTION	
MVP-AR-H600-13		MVP-AR-H600-13		ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES	
P-W-H600-1204-01		P-W-H600-1204-01		CATHODIC PROTECTION STANDARD DRAWING	



CONSTRUCTION METHOD		CONSTRUCTION METHOD KEY	
1 - TYPICAL R/W WORKING SIDE RIGHT		1 - TYPICAL R/W WORKING SIDE RIGHT	
1.1 - TYPICAL R/W WORKING SIDE LEFT		1.1 - TYPICAL R/W WORKING SIDE LEFT	
2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT		2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT	
2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT		2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT	
3 - TYPICAL WETLAND X-ING		3 - TYPICAL WETLAND X-ING	
4 - ROAD X-ING - BORE		4 - ROAD X-ING - BORE	
5 - RAILROAD X-ING - BORE		5 - RAILROAD X-ING - BORE	
6 - WATERBODY X-ING OPEN CUT - FLUME		6 - WATERBODY X-ING OPEN CUT - FLUME	
7 - PARALLEL TO POWER LINE		7 - PARALLEL TO POWER LINE	
8 - RIDGE CONSTRUCTION		8 - RIDGE CONSTRUCTION	
10 - HDD ENTRY PLAN		10 - HDD ENTRY PLAN	
11 - HDD EXIT PLAN		11 - HDD EXIT PLAN	
12 - HDD CONSTRUCTION		12 - HDD CONSTRUCTION	
13 - PARALLEL TO POWER LINE		13 - PARALLEL TO POWER LINE	
14 - PARALLEL TO POWER LINE		14 - PARALLEL TO POWER LINE	
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP		15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP	
33 - SIDE HILL CONSTRUCTION		33 - SIDE HILL CONSTRUCTION	
34 - 2-TONE SIDE HILL CONSTRUCTION		34 - 2-TONE SIDE HILL CONSTRUCTION	
53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION		53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION	
54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS		54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS	

PROFILE		DATE OF PLOT: 11/29/17 4:21 PM	
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**HOLLAND ENGINEERING**  
 28555 Evergreen Rd. Suite 400  
 Falls Church, VA 22041  
 Tel: 703-528-5808 Fax: 703-528-2118  
 www.hollandengineering.com

REVISIONS	
NO.	DESCRIPTION
1	REV. 01-15-16 FERC DATA REQUEST NO. 1
2	REV. 04-22-16 REV. 4.13 ISSUED FOR BIDDING
3	REV. 04-22-16 REV. 4.13 ISSUED FOR BIDDING
4	REV. 10-14-16 OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
5	REV. 10-14-16 REMOVED EASEMENTS
6	REV. 11-27-17 ISSUED FOR CONSTRUCTION

MATERIAL SUMMARY	
NO.	DESCRIPTION
1	42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY
2	3211' 42" O.D. X 0.740" W.T. X 70' FUSION BONDED EPOXY
3	1888' 42" O.D. X 0.885" W.T. X 70' FUSION BONDED EPOXY
4	1" TYPE 1 TEST STATION PIPELINE

APPROVED FOR CONSTRUCTION	
NO.	DATE
1	11/27/17

APPROVED FOR BIDDING	
NO.	DATE
1	11/27/17

APPROVED FOR FERC	
NO.	DATE
1	11/27/17

**Mountain Valley Pipeline**  
 PIPELINE ALIGNMENT  
**MOUNTAIN VALLEY PROJECT - H600 LINE**  
**C-3 PRECINCT., MONTGOMERY CO., VA.**  
**STA. 12301+09 TO STA. 12350+67**

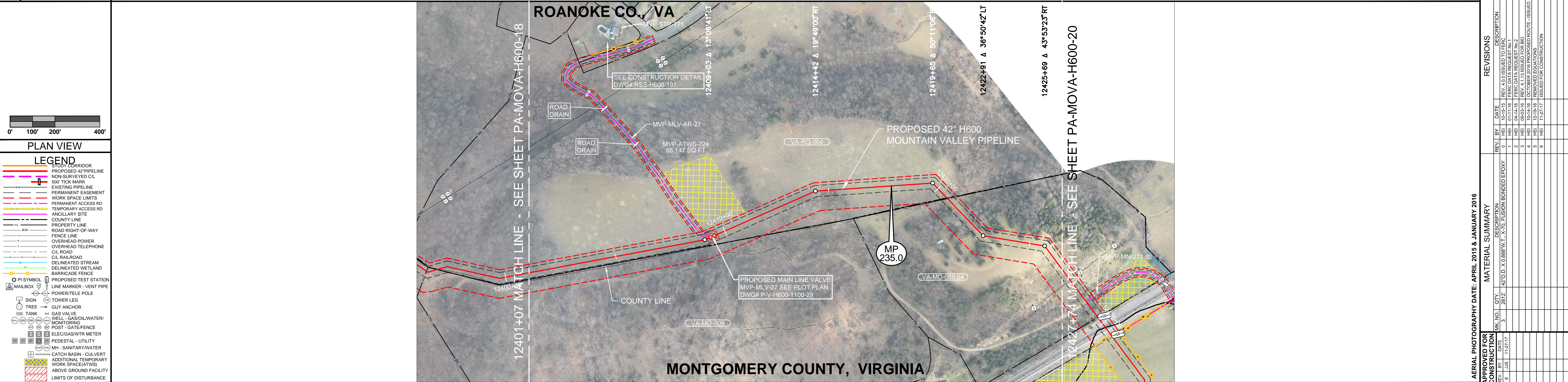
HORIZ. SCALE: 1" = 200'  
 DRAWN BY: HEI(DRF) 02/11/15  
 DRAFTING CK:  
 ENGINEERING CK:  
 CONSTRUCTION CK:  
 ENVIRONMENTAL CK:

PA-MOVA-H600-17  
 SHEET 256 OF 329 REV. 6  
 DATE OF PLOT: 11/29/17 4:21 PM

**ISSUED FOR CONSTRUCTION**

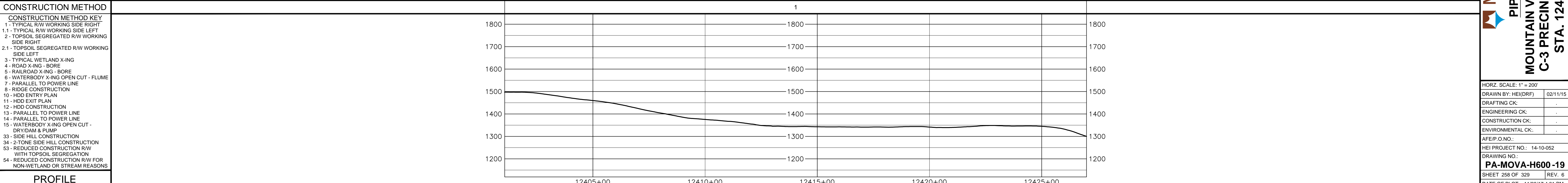
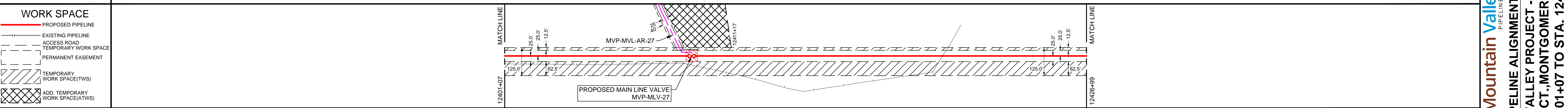


RIGHT-OF-WAY & OWNERSHIP DATA		VA-RO-001	VA-RO-001	VA-RO-004	VA-MO-088-03
DESIGN	PIPE / COATING	12401+07	12411+07	12419+08	12426+99
	SLOPE DISTANCE		3		
	CLASS LOCATION / HCA	1	2612'	2	
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS			
	WETLAND / STREAM				



REFERENCE DRAWINGS	
DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING
P-V-H600-1100-29	MAIN LINE VALVE #27 PLOT PLAN
P-V-H600-1152-01	6" ROANOKE GAS TAP

HORIZONTAL STATIONING	
12401+07 MATCH LINE	
12409+40 PROPOSED MAIN LINE VALVE (MVP-MLV-27)	
12409+40 ACCESS RD - PERMANENT (MVP-MLV-AR-27) 16'5" LT	
12420+58 PROPERTY LINE, FENCE - BARBED WIRE	
12426+99 MATCH LINE	



PROFILE	
CONSTRUCTION METHOD KEY	
1	TYPICAL R/W WORKING SIDE RIGHT
1.1	TYPICAL R/W WORKING SIDE LEFT
2	TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
2.1	TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
3	TYPICAL WETLAND X-ING
4	ROAD X-ING - BORE
5	RAILROAD X-ING - BORE
6	WATERBODY X-ING OPEN CUT - FLUME
7	PARALLEL TO POWER LINE
8	RIDGE CONSTRUCTION
10	HDD ENTRY PLAN
11	HDD EXIT PLAN
12	HDD CONSTRUCTION
13	PARALLEL TO POWER LINE
14	PARALLEL TO POWER LINE
15	WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33	SIDE HILL CONSTRUCTION
34	2-TONE SIDE HILL CONSTRUCTION
53	REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
54	REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS

**ISSUED FOR CONSTRUCTION**

**HOLLAND ENGINEERING**  
2900 New River Road, Suite 200  
Farmingdale, NY 11737  
Tel: 609-261-9300 Fax: 609-261-9301  
www.hollandengineering.com

REVISIONS	
NO.	DESCRIPTION
1	REVISED FOR PERMITS
2	REVISED FOR PERMITS
3	REVISED FOR PERMITS
4	REVISED FOR PERMITS
5	REVISED FOR PERMITS
6	REVISED FOR PERMITS

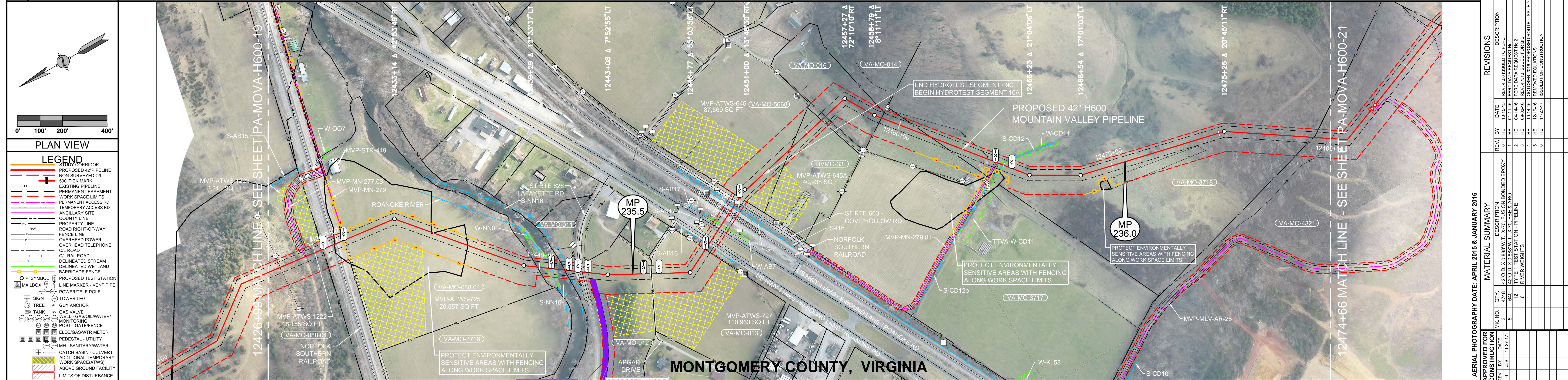
MATERIAL SUMMARY	
ITEM	DESCRIPTION
1	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY
2	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY
3	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY
4	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY
5	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY
6	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY

APPROVED FOR CONSTRUCTION	
REV.	DATE
1	11/27/17
2	11/27/17
3	11/27/17
4	11/27/17
5	11/27/17
6	11/27/17

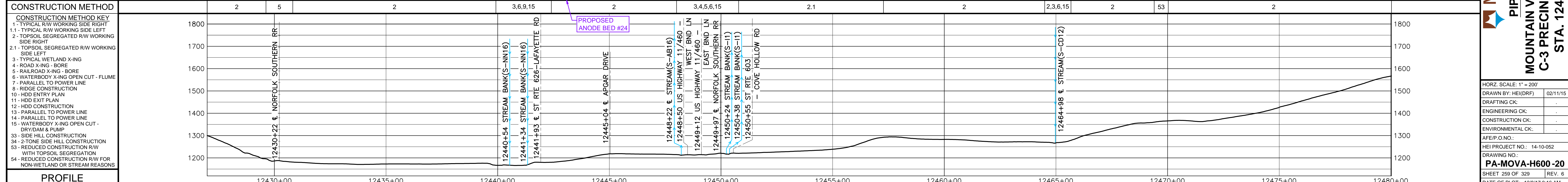
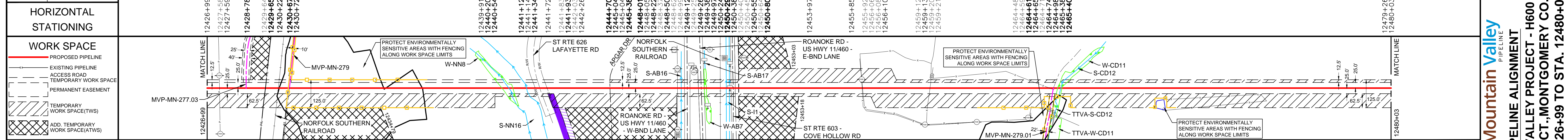
**Mountain Valley Pipeline**  
PIPELINE ALIGNMENT  
MOUNTAIN VALLEY PROJECT - H600 LINE  
C-3 PRECINCT., MONTGOMERY CO., VA.  
STA. 12401+07 TO STA. 12426+99

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/11/15
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O. NO.:	
HEI PROJECT NO.:	14-10-052
DRAWING NO.:	<b>PA-MOVA-H600-19</b>
SHEET 258 OF 329	REV. 6
DATE OF PLOT:	11/29/17 4:21 PM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-088-01												VA-MO-088-04												VA-MO-011												VA-MO-012												VA-MO-013												VA-MO-566B												VA-MO-566C												VA-MO-016												VA-MO-014												VA-MO-371B												VA-MO-371A												VA-MO-432B												VA-MO-432A																																																																							
DESIGN	PIPE / COATING	3												5												3												5												3												5												3												5												3												5												3												5												3												5																																																											
	SLOPE DISTANCE	281'												120'												915'												240'												581'												280'												2971'																																																																																																																																															
	CLASS LOCATION / HCA	HCA-10																																																																																																																																																																																																																							
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS												T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-NN16 MAY 15TH - JULY 15TH & MUSSEL RELOCATION TO BE COMPLETED BY MAY 15TH AND SEPT 30TH & FISH RELOCATION REQUIRED CONSULT RESPONSIBLE E.I.												T.O.Y.R.: NO CONSTRUCTION WITHIN STREAM S-AB16 & S-11 MAY 15TH - JULY 15TH												TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS												FISH RELOCATION REQUIRED WITHIN STREAM S-CD12 CONSULT RESPONSIBLE E.I.												TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS																																																																																																																																																											
	WETLAND / STREAM	W-NN8 S-NN16												S-AB16 W-AB7 S-11												W-CD11 S-CD12																																																																																																																																																																																															



DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-2DAR-H600-02	ACCESS ROAD DETAIL MAP
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING
MVP-CPGB-24	ROBERTS CORROSION SERVICE DRAWING



CONSTRUCTION METHOD KEY
1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE LEFT
2 - TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
2.1 - TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
3 - TYPICAL WETLAND X-ING
4 - ROAD X-ING - BORE
5 - RAILROAD X-ING - BORE
6 - WATERBODY X-ING OPEN CUT - FLUME
7 - PARALLEL TO POWER LINE
8 - RIDGE CONSTRUCTION
10 - HDD ENTRY PLAN
11 - HDD EXIT PLAN
12 - HDD CONSTRUCTION
13 - PARALLEL TO POWER LINE
14 - PARALLEL TO POWER LINE
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2 TONE SIDE HILL CONSTRUCTION
53 - REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
54 - REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS

**ISSUED FOR CONSTRUCTION**

**HOLLAND ENGINEERING**

2500 Hoover Boulevard, Suite 200  
Montgomery, VA 22904  
Tel: 540-952-5508 Fax: 540-952-2111  
www.hollandengineering.com

**REVISIONS**

REV	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST NO. 1
2	HEI	09-24-16	REV. 4.1.13 ISSUED FOR BID
3	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
4	HEI	12-29-16	REVISED EDUCATIONS
5	HEI	11-21-17	ISSUED FOR CONSTRUCTION

**MATERIAL SUMMARY**

ITEM NO.	QTY	DESCRIPTION
1	4748	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY
2	640	42" O.D. X 0.888" W.T. X 270' FIBER & ARD
3	12	42" O.D. X 0.888" W.T. X 270' MOUNTAIN VALLEY PIPELINE
4	6	RIVER WEIGHTS

**APPROVED FOR CONSTRUCTION**

DATE: APRIL 2015 & JANUARY 2016

**APPROVED FOR BIDDING**

DATE: 11/20/17

**APPROVED FOR FERC**

DATE: 10-15-15

**APPROVED FOR FERC**

DATE: 10-14-16

**APPROVED FOR FERC**

DATE: 11-27-17

**APPROVED FOR FERC**

DATE: 11-27-17

**APPROVED FOR FERC**

DATE: 11-27-17

**Mountain Valley**  
PIPELINE ALIGNMENT

**MOUNTAIN VALLEY PROJECT - H600 LINE**  
C-3 PRECINCT., MONTGOMERY CO., VA.  
STA. 12426+99 TO STA. 12480+03

HORIZ. SCALE: 1" = 200'

DRAWN BY: HEI(DRF) 02/11/15

DRAFTING CK: .

ENGINEERING CK: .

CONSTRUCTION CK: .

ENVIRONMENTAL CK: .

AFEP P.O. NO.: .

HEI PROJECT NO.: 14-10-052

DRAWING NO.: **PA-MOVA-H600-20**

SHEET 259 OF 329 REV. 6

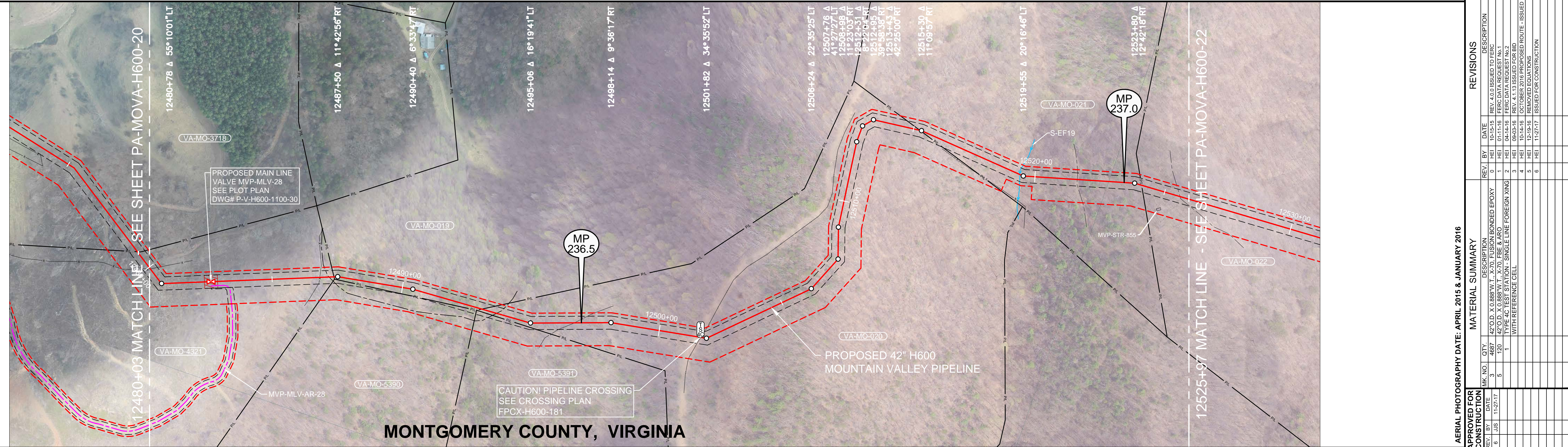
DATE OF PLOT: 12/27/17 9:16 AM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-4321										VA-MO-4322		VA-MO-4323		VA-MO-4324		VA-MO-4325		VA-MO-4326		VA-MO-4327		VA-MO-4328			
DESIGN	PIPE / COATING	3										5		3		5		3		5		3		5		3	
	SLOPE DISTANCE	699'										80'		600'		40'		3388'									
	CLASS LOCATION / HCA																	1									
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS																									
	WETLAND / STREAM	S-EF19 1 LF																									

**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C.L.
- 500' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANGULARITY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C.L. ROAD
- C.L. RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- SIGN
- TREE
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MI - SANITARY WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE



**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
MVP-AR-H600-13	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-2DAR-H600-13	ACCESS ROAD DETAIL MAP
FPCX-H600-181	FOREIGN PIPELINE XING PLAN
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING
P-V-H600-1100-30	MAIN LINE VALVE #28 PLOT PLAN



**HORIZONTAL STATIONING**

12480+03 MATCH LINE

12480+08 FENCE - BARBED WIRE

12482+67 MAIN LINE VALVE - PROPOSED MVP-MLV-28

12482+67 ACCESS ROAD - PERMANENT (MVP-MLV-AR-28)

12483+35 EDGE OF DIRT

12483+35 EDGE OF DIRT

12486+81 FENCE - BARBED WIRE

12487+17 ABANDONED ROAD

12487+36 PROPERTY LINE

12493+14 PROPERTY LINE

12493+72 ABANDONED ROAD

12496+74 FENCE - BARBED WIRE

12501+60 PIPELINE - FOREIGN - SPECTRA

12501+60 SPECTRA TANK TOWER

12501+60 PROPOSED TYPE 4C TEST STATION

12515+24 PROPERTY LINE

12519+41 STREAM (S-EF19)

12521+62 FIELD ROAD(DIRT)

12524+08 PROPERTY LINE

12525+01 BUILDING TRAILER 62'RT

12525+61 EDGE OF DIRT

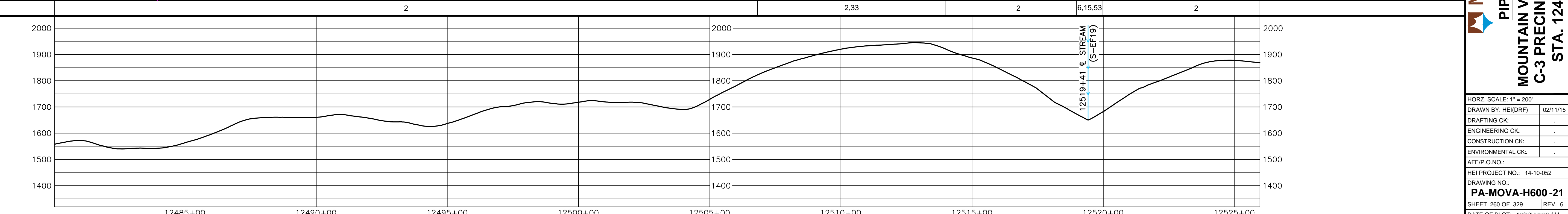
12525+61 TRAIL(DIRT)

12525+66 EDGE OF DIRT

12525+97 MATCH LINE

**WORK SPACE**

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD
- TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)



**CONSTRUCTION METHOD**

**CONSTRUCTION METHOD KEY**

- TYPICAL R/W WORKING SIDE RIGHT
- TYPICAL R/W WORKING SIDE LEFT
- TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
- TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
- TYPICAL WETLAND X-ING
- ROAD X-ING - BORE
- RAILROAD X-ING - BORE
- WATERBODY X-ING OPEN CUT - FLUME
- PARALLEL TO POWER LINE
- RIDGE CONSTRUCTION
- HDD ENTRY PLAN
- HDD EXIT PLAN
- HDD CONSTRUCTION
- PARALLEL TO POWER LINE
- PARALLEL TO POWER LINE
- WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
- SIDE HILL CONSTRUCTION
- 2-TONE SIDE HILL CONSTRUCTION
- REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
- REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS

**PROFILE**

**ISSUED FOR CONSTRUCTION**

**HOLLAND ENGINEERING**

220 Hoover Boulevard, Suite 2  
 110-582-5008 F 610-302-2111 T 248-827-2322 F 248-827-7919  
 www.hollandengineering.com

**REVISIONS**

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST NO. 1
2	HEI	09-02-16	REV. 4.1.13 ISSUED FOR BID
3	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
4	HEI	10-19-16	REVISED EASEMENTS
5	HEI	11-23-17	ISSUED FOR CONSTRUCTION

**MATERIAL SUMMARY**

ITEM NO.	QTY.	DESCRIPTION
1	4687	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY
2	120	42" O.D. X 0.888" W.T. X 70' FIBRE & JACO
3	1	SINGLE LINE FOREGR XING
4	1	WITH REFERENCE CELL

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**APPROVED FOR FERC**

**Mountain Valley Pipeline**

**PIPELINE ALIGNMENT**

**MOUNTAIN VALLEY PROJECT - H600 LINE**

**C-3 PRECINCT., MONTGOMERY CO., VA.**

**STA. 12480+03 TO STA. 12525+97**

HORIZ. SCALE: 1" = 200'

DRAWN BY: HEI(DRF) 02/11/15

DRAFTING CK: .

ENGINEERING CK: .

CONSTRUCTION CK: .

ENVIRONMENTAL CK: .

AFE/P.O. NO.: .

HEI PROJECT NO.: 14-10-052

DRAWING NO.: **PA-MOVA-H600-21**

SHEET 280 OF 329 REV. 6

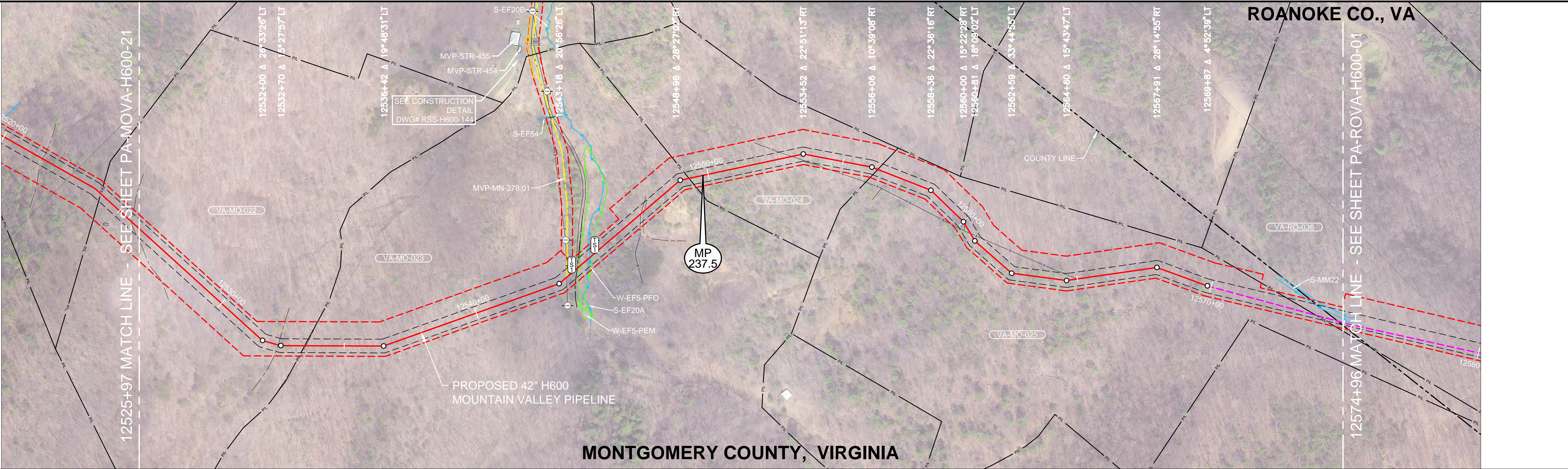
DATE OF PLOT: 12/8/17 9:20 AM

RIGHT-OF-WAY & OWNERSHIP DATA		VA-MO-022	VA-MO-022	VA-MO-023	VA-MO-024	VA-MO-024	VA-MO-025	VA-RO-036	VA-RO-036	
DESIGN	PIPE / COATING	739 LF 770 SLOPE	67 LF 69 SLOPE	1480 LF 1563 SLOPE	85 LF 70 SLOPE	666 LF 694 SLOPE	51 LF 51 SLOPE	1406 LF 1431 SLOPE	401 LF 403 SLOPE	24 LF 24 SLOPE
DESIGN	SLOPE DISTANCE	1864'			40'	3160'				
DESIGN	CLASS LOCATION / HCA	1								
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS			T.O.YR.: NO CONSTRUCTION WITHIN STREAM S-EF20A MARCH 15TH TO JULY 15TH & FISH RELOCATION REQUIRED CONSULT RESPONSIBLE E.I.			TIME OF YEAR RESTRICTION: NO CLEARING JUNE 1 - JULY 31 SEE TREE CLEARING PLAN FOR FURTHER DETAILS		
ENVIRONMENTAL	WETLAND / STREAM	W-EF5-PFO S-EF20A			S1 LF			S-MM22		
ENVIRONMENTAL								149 LF		

**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED PIPELINE
- NON-SURVEYED C.L.
- 400' TICK MARK
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- ANCILLARY SITE
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C.L. ROAD
- C.L. RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- SIGN
- TOWER LEG
- GUY ANCHOR
- TANK
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MI - SANITARY WATER
- CATCH BASIN - CULVERT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE



**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
MVP-AR-H600-14	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-2048-H600-05	ACCESS ROAD DETAIL MAP
RSS-H600-144	RESIDENTIAL SITE SPECIFIC
P-W-H600-1204-01	CATHODIC PROTECTION STANDARD DRAWING

**HORIZONTAL STATIONING**

12525+97 MATCH LINE

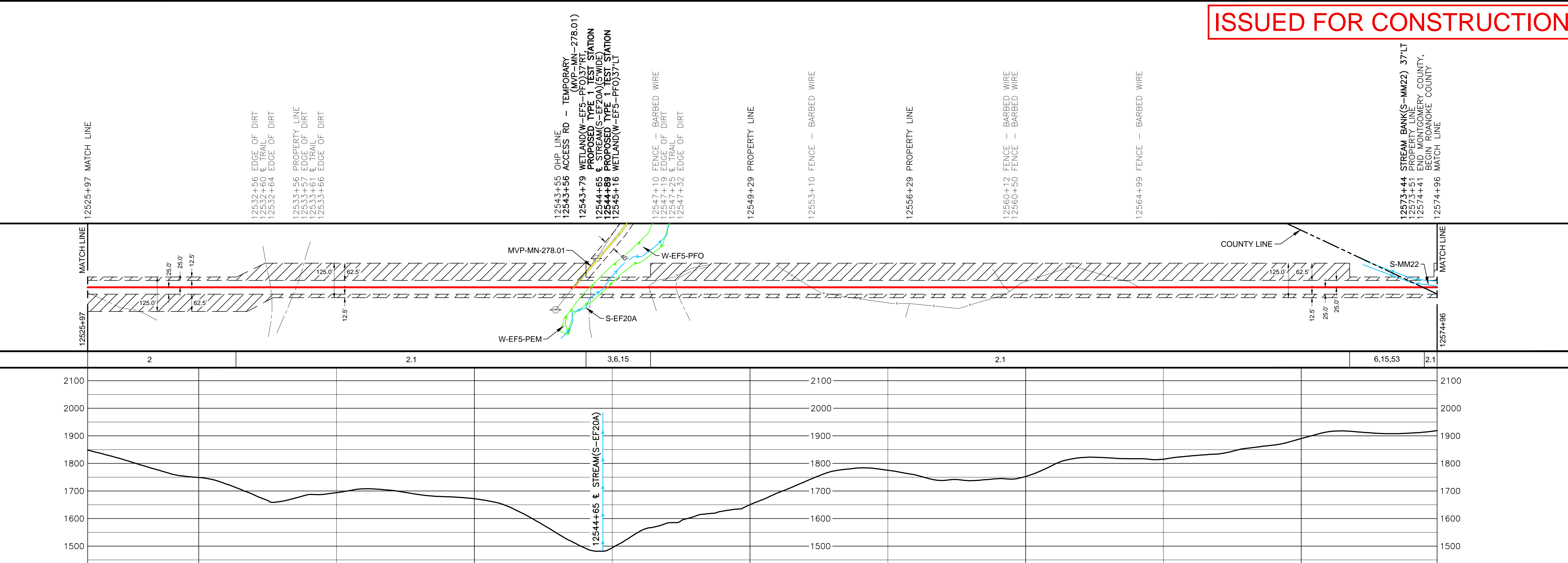
**WORK SPACE**

- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD
- TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)

**CONSTRUCTION METHOD**

**CONSTRUCTION METHOD KEY**

- TYPICAL R/W WORKING SIDE RIGHT
- TYPICAL R/W WORKING SIDE LEFT
- TOPSOIL SEGREGATED R/W WORKING SIDE RIGHT
- TOPSOIL SEGREGATED R/W WORKING SIDE LEFT
- TYPICAL WETLAND X-ING
- ROAD X-ING - BORE
- RAILROAD X-ING - BORE
- WATERBODY X-ING OPEN CUT - FLUME
- PARALLEL TO POWER LINE
- RIDGE CONSTRUCTION
- HDD ENTRY PLAN
- HDD EXIT PLAN
- HDD CONSTRUCTION
- PARALLEL TO POWER LINE
- PARALLEL TO POWER LINE
- WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
- SIDE HILL CONSTRUCTION
- 2-TONE SIDE HILL CONSTRUCTION
- REDUCED CONSTRUCTION R/W WITH TOPSOIL SEGREGATION
- REDUCED CONSTRUCTION R/W FOR NON-WETLAND OR STREAM REASONS



**ISSUED FOR CONSTRUCTION**

**HOLLAND ENGINEERING**

2201 Hoover Boulevard, Suite 2  
Roanoke, Virginia 24058  
T: 540-982-5008 F: 540-982-2188 E: holland@holland-engineering.com

**REVISIONS**

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST NO. 1
2	HEI	09-02-16	REV. 4.1.13 ISSUED FOR BID
3	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC
4	HEI	10-14-16	REMOVED EASEMENTS
5	HEI	11-27-17	ISSUED FOR CONSTRUCTION

**MATERIAL SUMMARY**

ITEM	QTY.	DESCRIPTION
3	4999	42" O.D. X 0.888" W.T. X 70' FUSION BONDED EPOXY
5	65	42" O.D. X 0.888" W.T. X 20' FBE & ARO
2	1	TYPE 1 TEST STATION - PIPELINE

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**APPROVED FOR FERC**

REV.	DATE	DESCRIPTION
0	JUN 11/2017	
1	JUN 08/2016	
2	JUN 08/2016	
3	JUN 08/2016	
4	JUN 08/2016	
5	JUN 08/2016	
6	JUN 11/2017	

**Mountain Valley Pipeline**

**PIPELINE ALIGNMENT**

**MOUNTAIN VALLEY PROJECT - H600 LINE**

**C-3 PRECINCT., MONTGOMERY CO., VA.**

**STA. 12525+97 TO STA. 12574+96**

**DATE OF PLOT: 12/8/17 9:22 AM**

**PA-MOVA-H600-22**

SHEET 261 OF 329 REV. 6

DATE OF PLOT: 12/8/17 9:22 AM