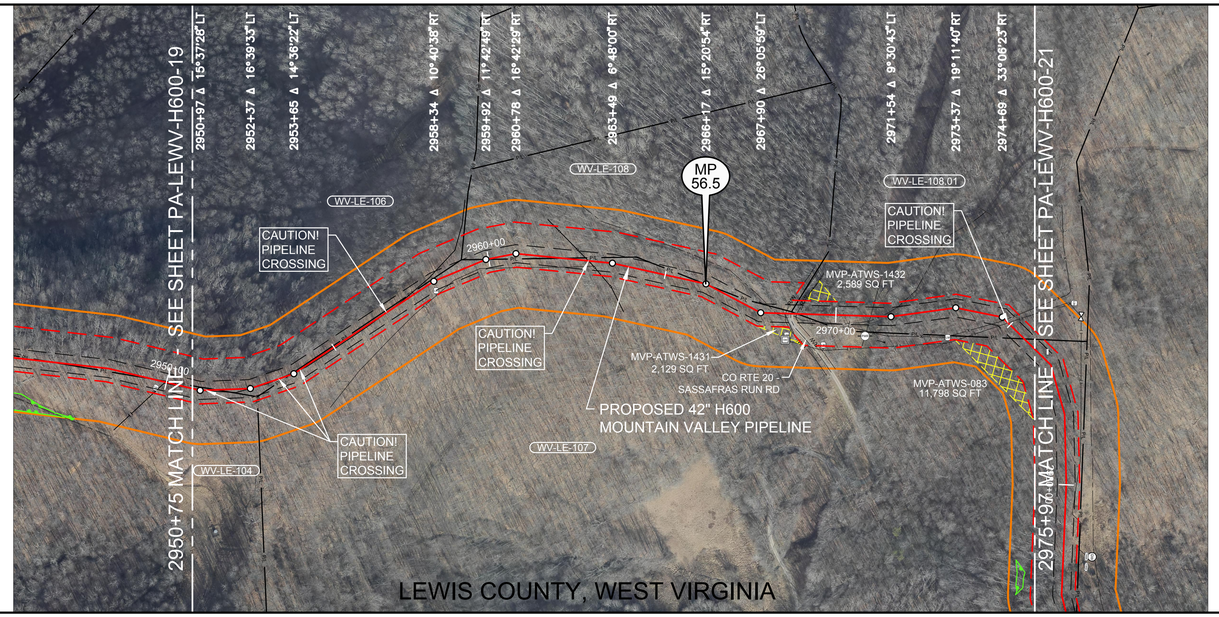
RIGHT-OF-WAY & OWNERSHIP DATA		WV-LE-106 (2950+75 – 2952+48); WV-LE-104 174 LF 174 SLOPE; WV-LE-108 (2952+48 – 2959+28); WV-LE-107 680 LF 686 SLOPE; WV-LE-111 (2959+28 – 2959+62); BW-LE-5 (2959+28 – 2959+62); WV-LE-107 33 LF 34 SLOPE; BW-LE-5 (2959+62 – 2968+55); WV-LE-107 893 LF 921 SLOPE; BW-LE-5 (2968+55 – 2968+72); WV-LE-107 17 LF 17 SLOPE; BW-LE-7 (2968+72 – 2969+08); WV-LE-107 36 LF 37 SLOPE; BW-LE-7 (2969+08 – 2975+97); WV-LE-107 689 LF 706 SLOPE
DESIGN	PIPE / COATING	2950+75 – 2968+55: 1; 2968+55 – 2968+95: 4; 2968+95 – 2975+97: 1
DESIGN	SLOPE DISTANCE	1814'; 40'; 721'
DESIGN	CLASS LOCATION / HCA	1
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	2950+75 – 2975+97: TIME OF YEAR RESTRICTION: NO TREE CLEARING APRIL 1ST TO JULY 31ST
ENVIRONMENTAL	WETLAND / STREAM	
ENVIRONMENTAL	.	
ENVIRONMENTAL	.	



0' 100' 200' 400'

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
- BARRACADE FENCE
- PI SYMBOL
- 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(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
MVP-AR-H600-03	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES

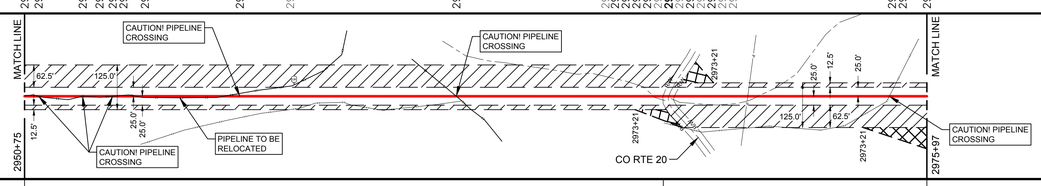
HORIZONTAL STATIONING

2950+75 MATCH LINE
2951+14 PIPELINE – 12"F1147(EQT)PIPELINE
2952+37 PIPELINE – 12"F1147(EQT)PIPELINE
2952+38 PIPELINE – 12"F1147(EQT)PIPELINE
2953+21 PIPELINE – 12"F1147(EQT)PIPELINE
2953+21 PROPERTY LINE
2953+86 PIPELINE – 12"F1147(EQT)PIPELINE
2956+76 PIPELINE – 12"F1147(EQT)PIPELINE
2958+17 LINE MARKER 38'RT
2962+81 PIPELINE – FOREIGN – UNKNOWN
2968+33 ℄ TRAIL(DIRT)
2968+59 RIGHT-OF-WAY
2968+60 METER – GAS 74'RT
2968+62 VALVE – GAS 74'RT
2968+64 LINE MARKER 76'RT
2968+75 EDGE OF DIRT
2968+75 ℄ CO RTE 20 – SASSAFRAS RUN RD
2968+83 EDGE OF DIRT
2968+91 RIGHT-OF-WAY
2970+53 POWER POLE 56'RT
2970+97 OHW LINE
2970+97 ℄ TRAIL(GRAVEL)
2971+40 GUY ANCHOR 73'RT
2974+80 FENCE – BARBED WIRE
2974+92 PIPELINE – FOREIGN – EAST AMERICA
2975+97 MATCH LINE

OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

WORK SPACE

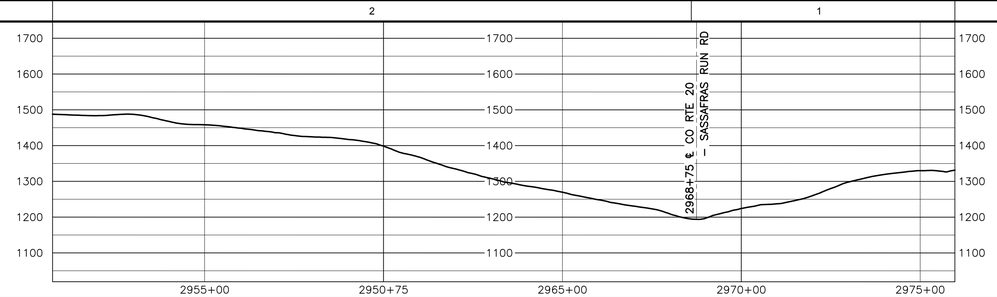
- PROPOSED PIPELINE
- EXISTING PIPELINE
- ACCESS ROAD TEMPORARY WORK SPACE
- PERMANENT EASEMENT
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)



CONSTRUCTION METHOD

CONSTRUCTION METHOD KEY
1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE RIGHT
2 - TYPICAL R/W WORKING SIDE LEFT
2.1 - TYPICAL 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
9 - WATERBODY X-ING OPEN CUT - WET DITCH
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

PROFILE



AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

MATERIAL SUMMARY		
MK. NO.	QTY.	DESCRIPTION
1	2935	42"O.D. X 0.617"W.T. X X70 FUSION BONDED EPOXY
4	40	42"O.D. X 0.740"W.T. X X70 FBE & ARO

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	04-14-16	FERC DATA REQUEST No.2
3	HEI	09-02-16	REV. 4.1.0 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

APPROVED FOR CONSTRUCTION		
REV.	BY	DATE
-		

APPROVED FOR BIDDING		
REV.	BY	DATE
3	RRR	09-02-16

APPROVED FOR FERC		
REV.	BY	DATE
0	RRR	10-15-15
4	RRR	10-14-16

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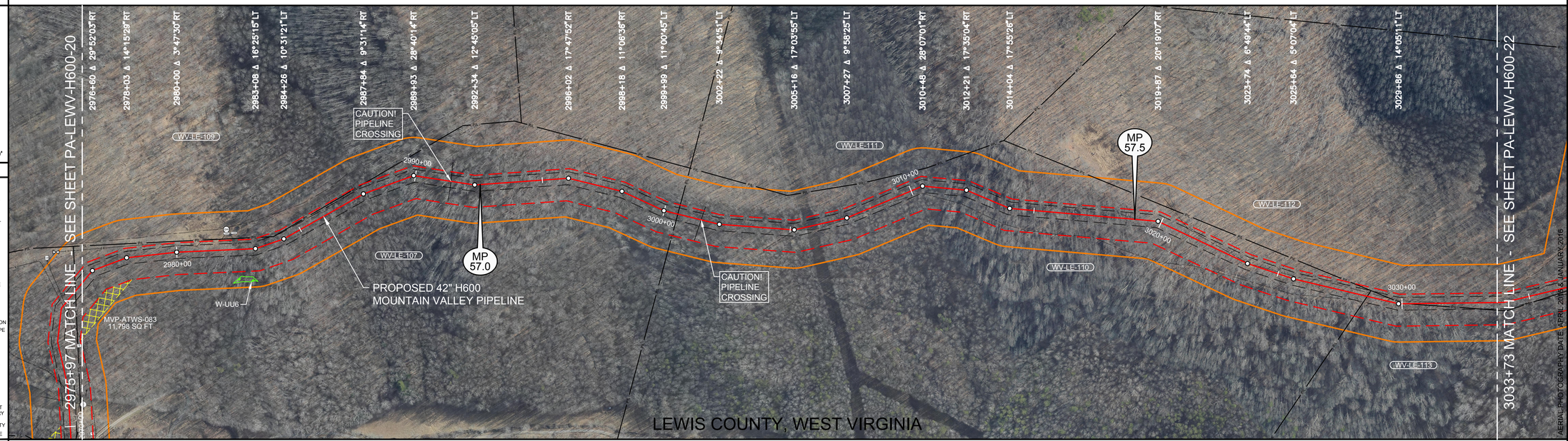
Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
COURT DIST., LEWIS CO., W.V.
STA. 2950+75 TO STA. 2975+75

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/17/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:	.
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
DRAWING NO.:	PA-LEWV-H600 -20
SHEET 62 OF 329	REV. 4
DATE OF PLOT: 10/10/16 5:54 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	2975+97	WV-LE-107 739 LF 742 SLOPE	2983+36	WV-LE-109 / WV-LE-107 465 LF 466 SLOPE	2988+01	WV-LE-107 1254 LF 1260 SLOPE	3000+55	WV-LE-110 2738 LF 2755 SLOPE	3027+93	WV-LE-112 / WV-LE-110 35 LF 35 SLOPE	3029+28	WV-LE-112 / WV-LE-110 / WV-LE-113 43 LF 43 SLOPE	3029+71	WV-LE-112 / WV-LE-113 502 LF 506 SLOPE	3033+73
DESIGN – PIPE / COATING	2975+97	1													3033+73
DESIGN – SLOPE DISTANCE		5806'													
DESIGN – CLASS LOCATION / HCA		1													
ENVIRONMENTAL – CONSTRUCTION EXCLUSION	2975+97	TIME OF YEAR RESTRICTION: NO TREE CLEARING APRIL 1ST TO JULY 31ST													3033+73
ENVIRONMENTAL – WETLAND / STREAM															
ENVIRONMENTAL – .															
ENVIRONMENTAL – .															



AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

PLAN VIEW

0' 100' 200' 400'

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
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- OVERHEAD POWER
- OVERHEAD TELEPHONE
- C/L ROAD
- C/L RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRACADE FENCE
- PI SYMBOL
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- SIGN
- TOWER LEG
- 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(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

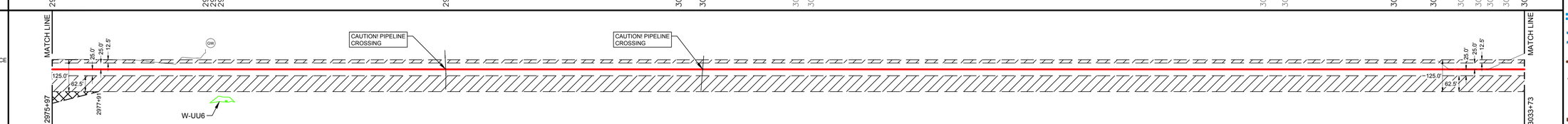
DRAWING NO.	DESCRIPTION
MVP-AR-H600-03	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES

HORIZONTAL STATIONING

2975+97 MATCH LINE
2981+88 TANK – STORAGE 65'LT
2981+98 WELL – GAS 80'LT
2982+27 TANK – STORAGE 65'LT
2991+41 PIPELINE – FOREIGN – UNKNOWN
3000+55 PROPERTY LINE
3001+49 PIPELINE – FOREIGN – UNKNOWN
3005+14 EDGE OF DIRT
3005+24 EDGE OF DIRT
3023+48 EDGE OF DIRT
3024+34 EDGE OF DIRT
3028+60 PROPERTY LINE
3030+16 PROPERTY LINE
3031+24 EDGE OF DIRT
3031+93 ℄ TRAIL(DIRT)
3032+39 ℄ TRAIL(DIRT)
3033+01 EDGE OF DIRT
3033+73 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

1	33	1	SEE LAND SLIDE MITIGATION PLAN 33	1

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE RIGHT
2 - TYPICAL R/W WORKING SIDE LEFT
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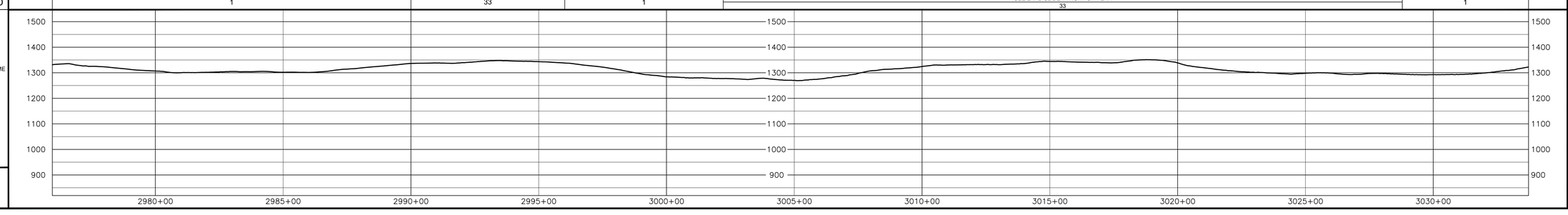
33 - SIDE HILL CONSTRUCTION
34 - 2-TONE SIDE HILL CONSTRUCTION

PROFILE



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www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST No.1
2	HEI	04-14-16	FERC DATA REQUEST No.2
3	HEI	09-03-16	REV. 4.1 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5806	42"O.D. X.0.617"W.T. X52 FUSION BONDED EPOXY
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
-			3	RRR	09-03-16	0	RRR	10-15-15
						4	RRR	10-14-16

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
COURT DIST., LEWIS CO., W.V.
STA. 2975+75 TO STA. 3033+73

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/17/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:	.
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
DRAWING NO.:	PA-LEWV-H600 -21
SHEET 63 OF 329	REV. 4
DATE OF PLOT: 10/10/16 5:55 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

Station	Line	Length / Slope
3033+73 – 3037+02	WV-LE-112 / WV-LE-113	330 LF 332 SLOPE
3037+02 – 3046+16	WV-LE-112 / WV-LE-114 / WV-LE-113	913 LF 933 SLOPE
3046+16 – 3048+92	WV-LE-111 / WV-LE-114	277 LF 279 SLOPE
3048+92 – 3049+48	WV-LE-111 / WV-LE-115 / WV-LE-114	55 LF 55 SLOPE
3049+48 – 3072+47	WV-LE-115	2299 LF 2393 SLOPE
3072+47 – 3073+73	WV-LE-115 (CO RTE 21 / 34 LF SLOPE)	
3073+73 – 3085+92	WV-LE-115	1315 LF 1304 SLOPE
3085+92 – 3087+71	WV-LE-115 / WV-LE-116	178 LF 181 SLOPE
3087+71 – 3091+40	WV-LE-116	369 LF 371 SLOPE

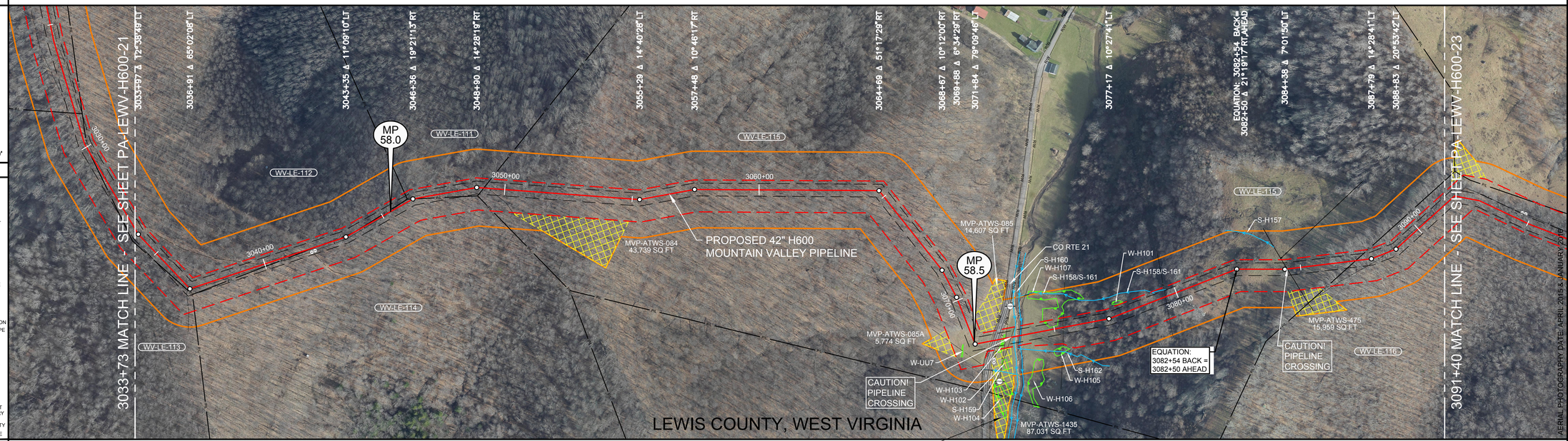
EQ = 3082+54 BK 3082+50 AH

DESIGN

	Station	Value
PIPE / COATING	3033+73 – 3072+47	1
	3072+47 – 3073+73	4
	3073+73 – 3091+40	1
SLOPE DISTANCE	3072+47 – 3073+73	3994'
	3072+47 – 3072+87	40'
	3072+87 – 3073+33	46'
	3073+33 – 3073+73	40'
	3073+73 – 3091+40	1854'
CLASS LOCATION / HCA	3033+73 – 3091+40	1

ENVIRONMENTAL

	Station	Value
CONSTRUCTION EXCLUSION	3033+73 – 3091+40	TIME OF YEAR RESTRICTION: NO TREE CLEARING APRIL 1ST TO JULY 31ST
WETLAND / STREAM		W-UU7 15 LF; W-H103 34 LF; S-H160 24 LF; W-H107 60 LF; S-H158/H161 56 LF
.		
.		



AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

SEE CONSTRUCTION DETAIL DWG# CD-ATWS-H600-05

OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

PLAN VIEW

0' 100' 200' 400'

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
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- DELINEATED WETLAND
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- PI SYMBOL
- 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(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

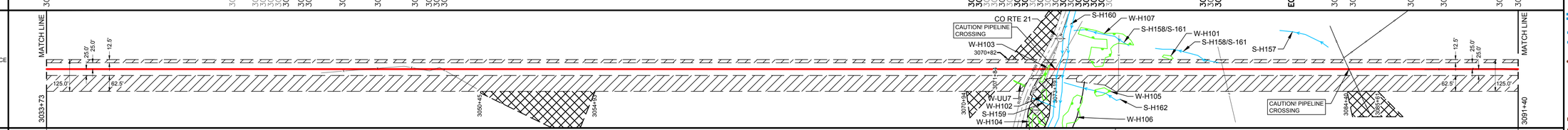
DRAWING NO.	DESCRIPTION
MVP-AR-H600-03	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
CD-ATWS-H600-005	CONSTRUCTION DETAILS ATWS SITE SPECIFIC

HORIZONTAL STATIONING

3033+73 MATCH LINE
3040+95 EDGE OF DIRT
3041+86 ℄ TRAIL(DIRT)
3041+89 GATE POST 15'RT
3041+91 EDGE OF DIRT
3042+03 GATE POST 13'RT
3042+33 PROPERTY LINE
3043+65 PROPERTY LINE
3043+73 PROPERTY LINE
3045+27 FENCE – BARBED WIRE
3046+37 PROPERTY LINE
3048+65 FENCE – BARBED WIRE
3049+04 FENCE – BARBED WIRE
3049+18 PROPERTY LINE
3049+35 FENCE – BARBED WIRE
3071+69 BEGIN WETLAND(W-UU7)44'LT
3071+84 END WETLAND(W-UU7)70'LT
3072+44 GATE POST 55'RT
3072+47 ℄ CO RTE 21
3072+48 RIGHT-OF-WAY
3072+58 EDGE OF ASPHALT
3072+65 ℄ CO RTE 21–INDIAN FORK RD
3072+72 BEGIN WETLAND(W-H103)38'RT
3072+75 EDGE OF ASPHALT
3072+82 RIGHT-OF-WAY
3072+88 FENCE – BARBED WIRE
3073+06 OHP WETLAND(W-H103)14'LT
3073+09 PIPELINE (FOREIGN)-DOMINION
3073+41 STREAM BANK(S-H160)
3073+65 STREAM BANK(S-H160)
3073+82 BEGIN WETLAND(W-H107)38'LT
3074+23 END WETLAND(W-H107)38'LT
3075+35 FENCE – BARBED WIRE
3079+10 BEGIN ℄ STREAM (S-H158/H161)38'LT
3079+55 OHP LINE (S-H158/H161)27'LT
3079+66 END ℄ STREAM (S-H158/H161)27'LT
EQUATION: 3082+54 BK = 3082+50 AHD
3084+24 VALVE – GAS 44'LT
3084+47 PIPELINE–5"F707(EQT)PIPELINE
3087+17 PROPERTY LINE
3088+46 FENCE – BARBED WIRE
3090+98 FENCE – BARBED WIRE
3091+40 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

1 | 3,6,9,15 | 1

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE RIGHT
2 - TYPICAL R/W WORKING SIDE LEFT
2.1 - TYPICAL R/W WORKING SIDE LEFT
3 - TYPICAL WETLAND X-ING
4 - ROAD X-ING - BORE
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6 - WATERBODY X-ING OPEN CUT - FLUME
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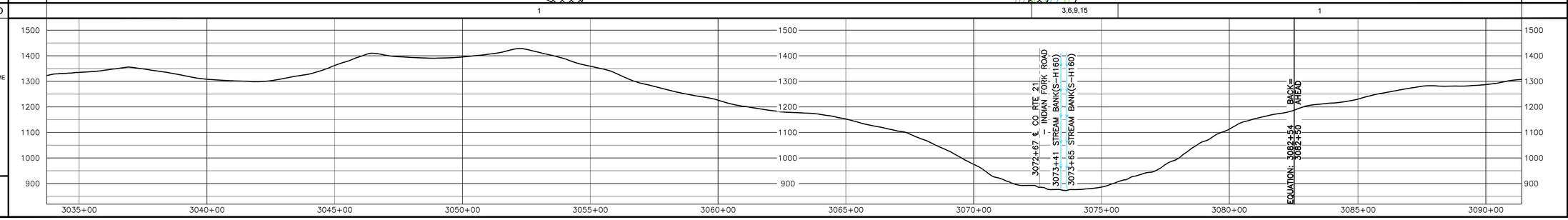
PROFILE



REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-14-15	REV. 4.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST No.1
2	HEI	04-14-16	FERC DATA REQUEST No.2
3	HEI	09-14-16	REV. 4.1 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	9894	42"O.D. X 0.617"W.T. X70 FBE BONDED EPOXY
4	80	42"O.D. X 0.740"W.T. X70 FBE & ARO

TYPE 1 TEST STATION - PIPELINE	1
TYPE 4 TEST STATION - FOREIGN CROSSING	1

APPROVED FOR CONSTRUCTION		
REV.	BY	DATE
-		

APPROVED FOR BIDDING		
REV.	BY	DATE
3	RRR	09-05-16

APPROVED FOR FERC		
REV.	BY	DATE
0	RRR	10-15-15
4	RRR	10-14-16

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Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
COURT DIST., LEWIS CO., W.V.
STA. 3033+73 TO STA. 3091+40

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/17/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:	.
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
DRAWING NO.:	PA-LEWV-H600 -22
SHEET 64 OF 329	REV. 4
DATE OF PLOT: 10/10/16 5:55 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

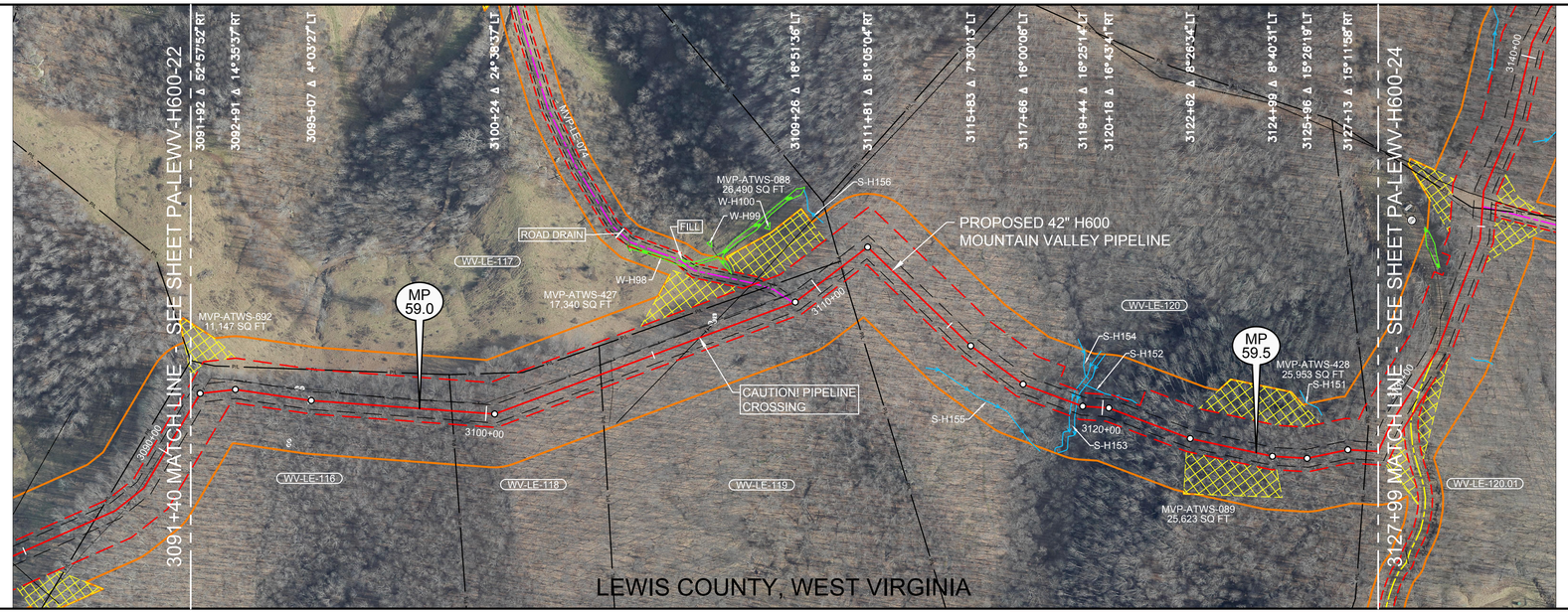
Station	Length	Line
3091+40 – 3092+08	68 LF, 69 SLOPE	WV-LE-116
3092+08 – 3095+12	304 LF, 305 SLOPE	WV-LE-117 / WV-LE-118
3095+12 – 3099+03	391 LF, 394 SLOPE	WV-LE-118
3099+03 – 3101+23	220 LF, 222 SLOPE	WV-LE-118
3101+23 – 3103+31	208 LF, 211 SLOPE	WV-LE-117 / WV-LE-118
3103+31 – 3103+66	35 LF, 36 SLOPE	WV-LE-117 / WV-LE-119 / WV-LE-118
3103+66 – 3110+74	708 LF, 713 SLOPE	WV-LE-117 / WV-LE-119
3110+74 – 3111+23	49 LF, 49 SLOPE	WV-LE-117 / WV-LE-120 / WV-LE-119
3111+23 – 3127+66	1643 LF, 1738 SLOPE	WV-LE-120
3127+66 – 3127+99	33 LF, 33 SLOPE	WV-LE-120.01

DESIGN

PIPE / COATING	3091+40	1
	3318+68	6
	3119+38	1
	3127+99	
SLOPE DISTANCE	3091+40	2817'
	3318+68	40'
	3119+38	912'
	3127+99	
CLASS LOCATION / HCA	3091+40 – 3127+99	1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION	3091+40 – 3127+99	TIME OF YEAR RESTRICTION: NO TREE CLEARING APRIL 1ST TO JULY 31ST
WETLAND / STREAM		S-H153, 15 LF
.		
.		



OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

0' 100' 200' 400'

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
- BARRACADE FENCE
- PI SYMBOL
- 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(ATWS)
- ABOVE GROUND FACILITY
- LIMITS OF DISTURBANCE

REFERENCE DRAWINGS

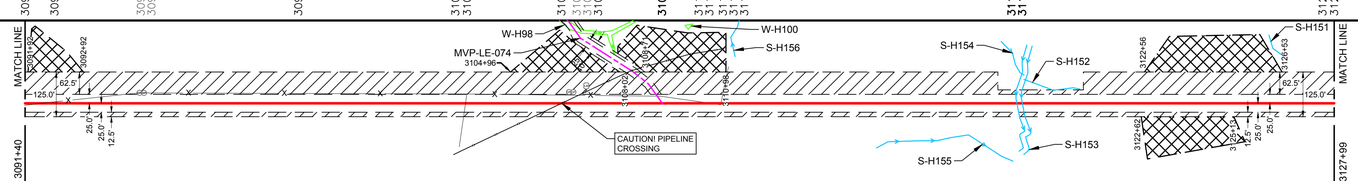
DRAWING NO.	DESCRIPTION
MVP-AR-H600-03	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-19	ACCESS ROAD DETAIL MAP

HORIZONTAL STATIONING

Station	Description
3091+40	MATCH LINE
3091+95	FENCE – BARBED WIRE
3094+63	GATE POST 28'LT
3094+77	GATE POST 30'LT
3099+03	PROPERTY LINE
3103+42	PROPERTY LINE
3103+75	FENCE – BARBED WIRE
3106+39	PIPELINE – 3"W7011(EQT)PIPELINE
3106+81	GATE POST 28'LT
3106+83	GATE POST 29'LT
3106+94	LINE MARKER 28'LT
3109+20	ACCESS RD–PERMANENT(MVP–LE–074)
3110+22	FENCE – BARBED WIRE
3110+34	PROPERTY LINE
3110+90	PROPERTY CORNER 21'RT
3110+92	FENCE – BARBED WIRE
3110+97	PROPERTY LINE
3119+11	STREAM BANK(S–H153)
3119+26	STREAM BANK(S–H153)
3127+66	PROPERTY LINE
3127+99	MATCH LINE

WORK SPACE

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



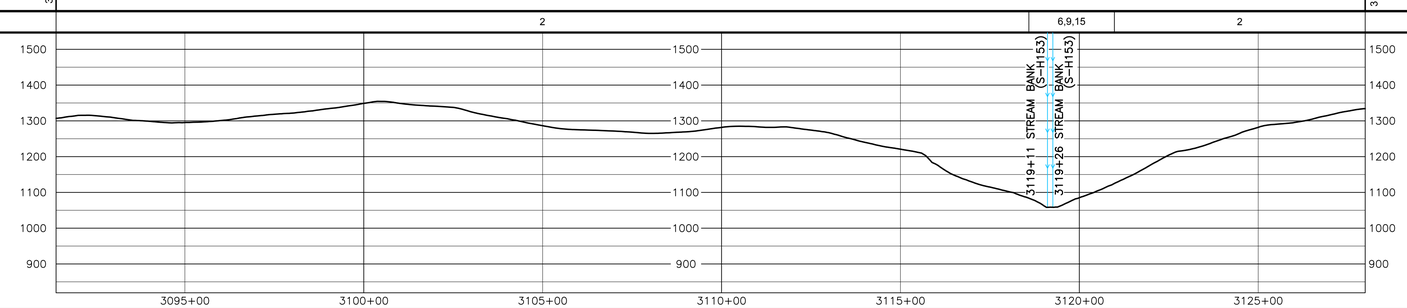
CONSTRUCTION METHOD

3091+40 – 3119+11	3119+11 – 3119+26	3119+26 – 3127+99
2	6,9,15	2

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W WORKING SIDE RIGHT
1.1 - TYPICAL R/W WORKING SIDE RIGHT
2 - TYPICAL R/W WORKING SIDE LEFT
2.1 - TYPICAL 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
9 - WATERBODY X-ING OPEN CUT - WET DITCH
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

PROFILE



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REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV. 4.0 ISSUED TO FERC
1	HEI	01-11-16	FERC DATA REQUEST No.1
2	HEI	04-14-16	FERC DATA REQUEST No.2
3	HEI	09-05-16	REV. 4.1 ISSUED TO BID
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
4	3729	42"O.D. X 0.617"W.T. X-70, FUSION BONDED EPOXY
6	40	42"O.D. X 0.617"W.T. X-70, FBE & ARO
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR BIDDING			
REV.	BY	DATE	
3	RRR	09-05-16	

APPROVED FOR FERC			
REV.	BY	DATE	
0	RRR	10-15-15	
4	RRR	10-14-16	

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
COURT DIST., LEWIS CO., W.V.
STA. 3091+40 TO STA. 3127+99

HORZ. SCALE: 1" = 200'	
DRAWN BY: HEI(DRF)	02/17/15
DRAFTING CK:	.
ENGINEERING CK:	.
CONSTRUCTION CK:	.
ENVIRONMENTAL CK:	.
AFE/P.O.NO.:	
HEI PROJECT NO.:	14-10-052
DRAWING NO.:	PA-LEWV-H600 -23
SHEET 65 OF 329	REV. 4
DATE OF PLOT:	10/10/16 5:56 PM