RIGHT-OF-WAY & OWNERSHIP DATA

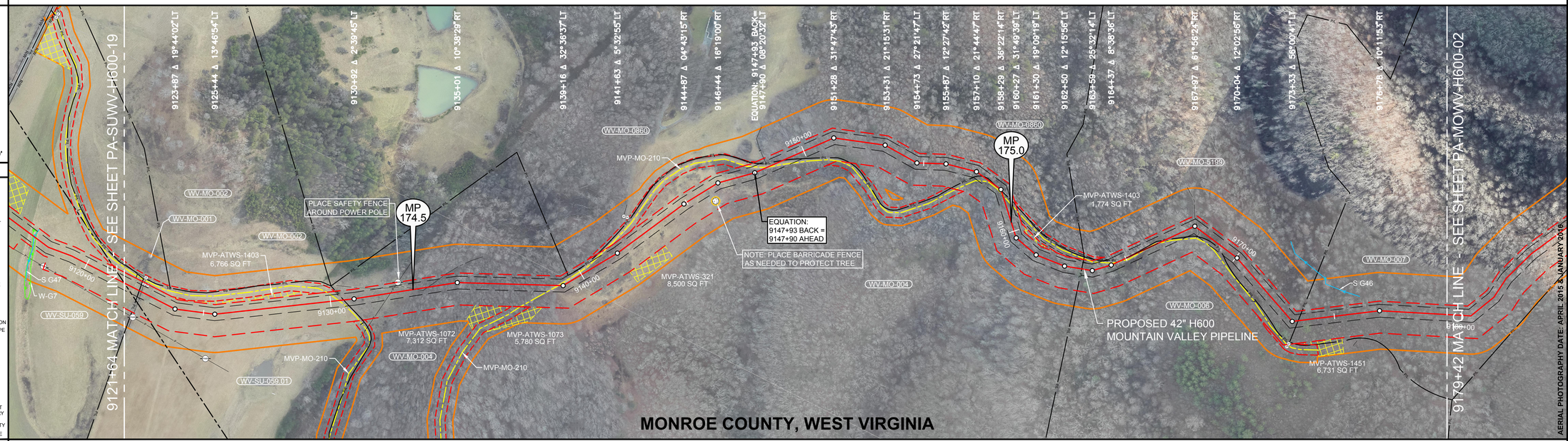
Station	Parcel	Length / Slope
9121+64	WV-SU-059	66 LF, 66 SLOPE
9122+30	WV-SU-059.01	795 LF, 796 SLOPE
9130+25	WV-MO-004 / WV-SU-059.01	87 LF, 89 SLOPE
9131+12	WV-MO-004	841 LF, 856 SLOPE
9139+53	WV-MO-0860 / WV-MO-004	144 LF, 144 SLOPE
9140+97	WV-MO-004	706 LF, 708 SLOPE
EQUATION: 9147+93 BACK = 9147+90 AHEAD		
9148+90	WV-MO-0860 / WV-MO-004	403 LF, 405 SLOPE
9152+04	WV-MO-0860	426 LF, 427 SLOPE
9156+30	WV-MO-0860 / WV-MO-004	277 LF, 278 SLOPE
9159+06	WV-MO-004	412 LF, 413 SLOPE
9163+18	WV-MO-006	66 LF, 67 SLOPE
9163+84	WV-MO-5199 / WV-MO-006	956 LF, 960 SLOPE
9173+41	WV-MO-5199 / WV-MO-006	23 LF, 23 SLOPE
9173+64	WV-MO-007	579 LF, 592 SLOPE
9179+42		

DESIGN

PIPE / COATING	9121+64	1
SLOPE DISTANCE		5824'
CLASS LOCATION / HCA		1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION	
WETLAND / STREAM	
.	
.	



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
- 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

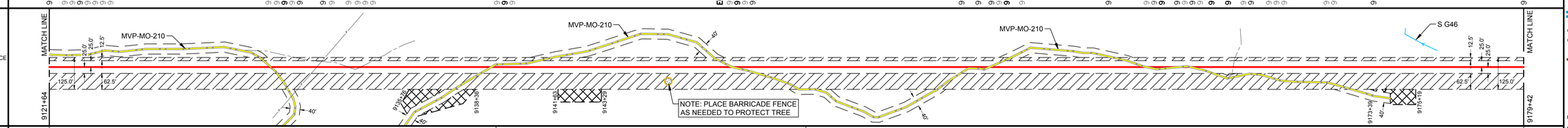
DRAWING NO.	DESCRIPTION
MVP-AR-H600-10	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES

HORIZONTAL STATIONING

9121+64 MATCH LINE
END SUMMERS CO., BEGIN MONROE CO.
9121+74 CULVERT OPEN END 25'RT
9121+95 CULVERT OPEN END 41'LT
9122+30 PROPERTY LINE
9122+31 GATE POST 57'LT
9122+40 GATE POST 43'RT
9122+45 FENCE WIRE 12'LT
9122+50 GATE POST 35'LT
9129+93 PROPERTY CORNER 84'LT
9130+26 EDGE OF DIRT
9130+33 ACCESS RD TEMPORARY(MVP-MO-210)
9130+38 EDGE OF DIRT
9130+52 PROPERTY LINE
9132+37 OHP LINE
9132+72 POWER POLE 37'LT
9133+37 ℄ FIELD ROAD(GRASS)
9133+73 EDGE OF DIRT
9133+84 ℄ FIELD ROAD(DIRT)
9133+96 EDGE OF DIRT
9138+40 EDGE OF DIRT
9138+97 ACCESS RD TEMPORARY(MVP-MO-210)
9139+48 EDGE OF DIRT
EQUATION: 9147+93 BACK = 9147+90 AHEAD
9148+32 EDGE OF DIRT
9148+42 ACCESS RD – TEMPORARY(MVP-MO-210)
9148+60 EDGE OF DIRT
9149+10 PROPERTY LINE
9157+42 PROPERTY LINE
9158+07 PROPERTY LINE
9158+34 PROPERTY LINE
9158+41 EDGE OF DIRT
9158+51 ACCESS ROAD – TEMPORARY (MVP-MO-210)
9158+61 EDGE OF DIRT
9163+18 PROPERTY LINE
9164+48 PROPERTY CORNER 24'LT
9164+49 ACCESS RD
9164+68 ACCESS RD – TEMPORARY (MVP-MO-210)
9164+69 PROPERTY LINE
9164+97 EDGE OF DIRT
9165+45 PROPERTY LINE
9165+53 EDGE OF DIRT
9165+95 ACCESS RD – TEMPORARY (MVP-MO-210)
9166+38 ACCESS RD – TEMPORARY (MVP-MO-210)
9166+56 EDGE OF DIRT
9166+68 PROPERTY LINE
9168+06 EDGE OF DIRT
9168+12 ℄ TRAIL(DIRT)
9168+19 EDGE OF DIRT
9171+72 CULVERT OPEN END 65'RT
9171+84 CULVERT OPEN END 56'RT
9173+57 PROPERTY LINE
9179+42 MATCH LINE

WORK SPACE

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



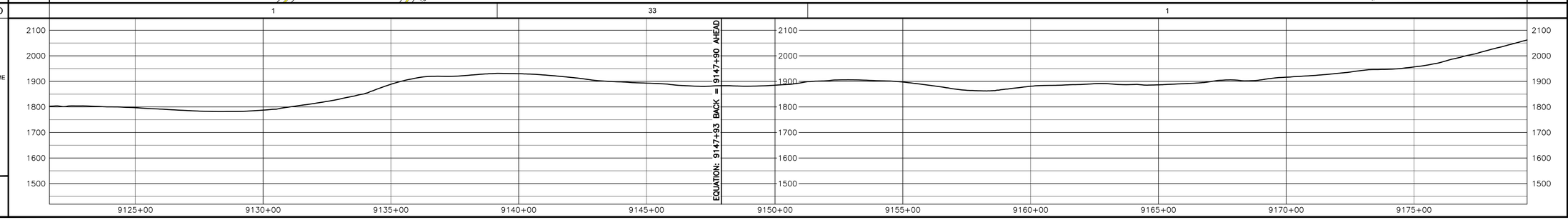
CONSTRUCTION METHOD

1	
33	
1	

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



OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

HOLLAND ENGINEERING
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Holland, Michigan 49423-3786 | Southfield, Michigan 48076
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www.hollandengineering.com

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	09-07-16	REV. 4.1 ISSUED FOR BIDDING
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
1	5824	42"O.D. X 0.617"W.T. X70 FUSION BONDED EPOXY TYPE 1 TEST STATION - PIPELINE

APPROVED FOR CONSTRUCTION			
REV.	BY	DATE	
-	-	-	

APPROVED FOR BIDDING			
REV.	BY	DATE	
3	RRR	09-07-16	

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

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

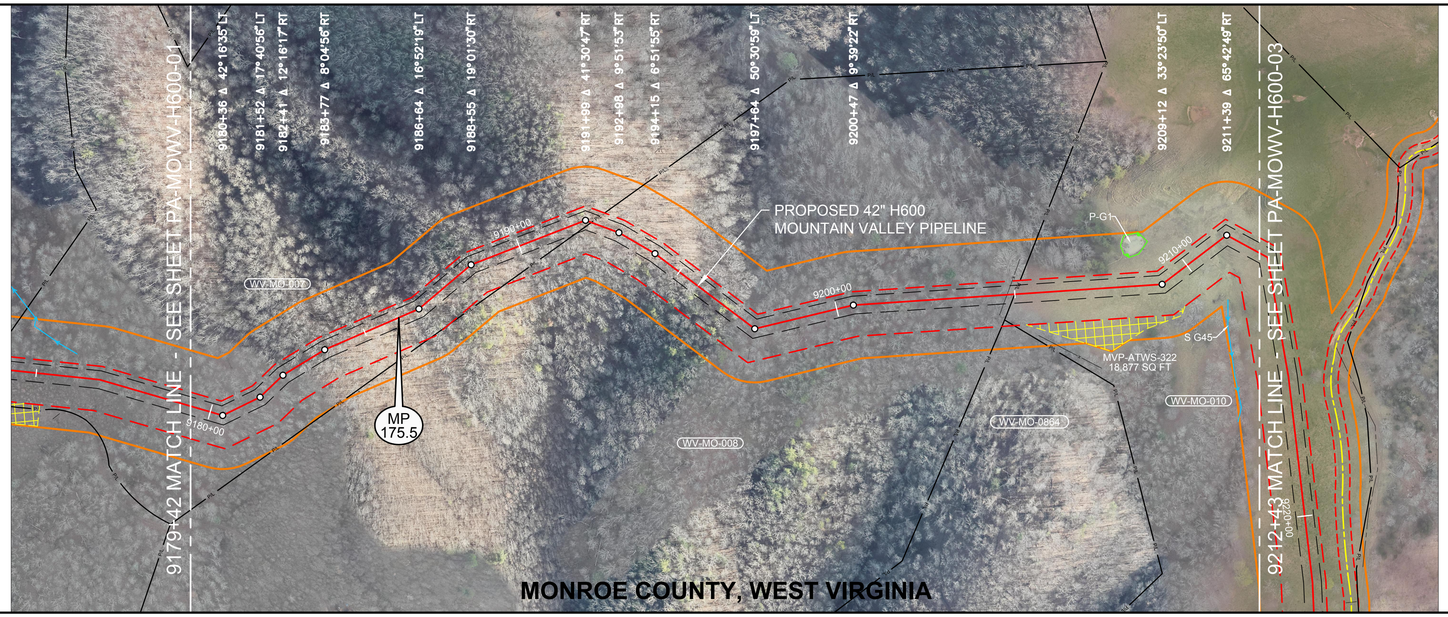
MOUNTAIN VALLEY PROJECT - H600 LINE
WOLF CREEK DIST., MONROE CO.,W.V.
STA. 9121+64 TO STA. 9179+42

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-MOWV-H600-01
SHEET 193 OF 329	REV. 4
DATE OF PLOT:	10/11/16 8:29 AM

RIGHT-OF-WAY & OWNERSHIP DATA	9179+42	WV-MO-007 974 LF 986 SLOPE	9189+16	WV-MO-007 / WV-MO-008 325 LF 326 SLOPE	9192+41	WV-MO-008 1216 LF 1221 SLOPE	9204+57	WV-MO-008 / WV-MO-009 9 LF 9 SLOPE	9204+66	WV-MO-008 / WV-MO-010 / WV-MO-009 25 LF 26 SLOPE	9204+92	WV-MO-008 / WV-MO-010 25 LF 25 SLOPE	9205+17	WV-MO-010 726 LF 730 SLOPE	9212+43
DESIGN – PIPE / COATING	9179+42	1													9212+43
DESIGN – SLOPE DISTANCE		3323'													
DESIGN – CLASS LOCATION / HCA		1													
ENVIRONMENTAL – CONSTRUCTION EXCLUSION															
ENVIRONMENTAL – WETLAND / STREAM															
ENVIRONMENTAL – .															
ENVIRONMENTAL – .															

0' 100' 200' 400'

PLAN VIEW



OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

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
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- 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
- 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

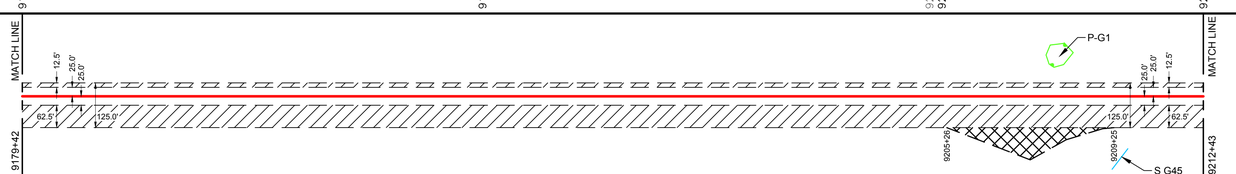
REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION
MVP-AR-H600-10	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES

HORIZONTAL STATIONING

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

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
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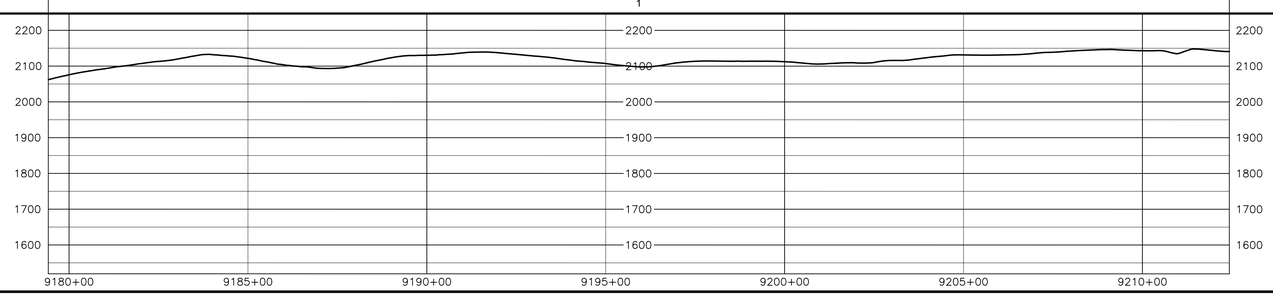
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2 TONE SIDE HILL CONSTRUCTION

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	09-03-16	REV. 4.1 ISSUED TO FERC
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
1	3323	42"O.D. X 0.617"W.T. X70 FBE BONDED EPOXY
		TYPE 1 TEST STATION - PIPELINE

APPROVED FOR CONSTRUCTION		
REV.	BY	DATE
-		-

APPROVED FOR BIDDING		
REV.	BY	DATE
3	RRR	09-03-16

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

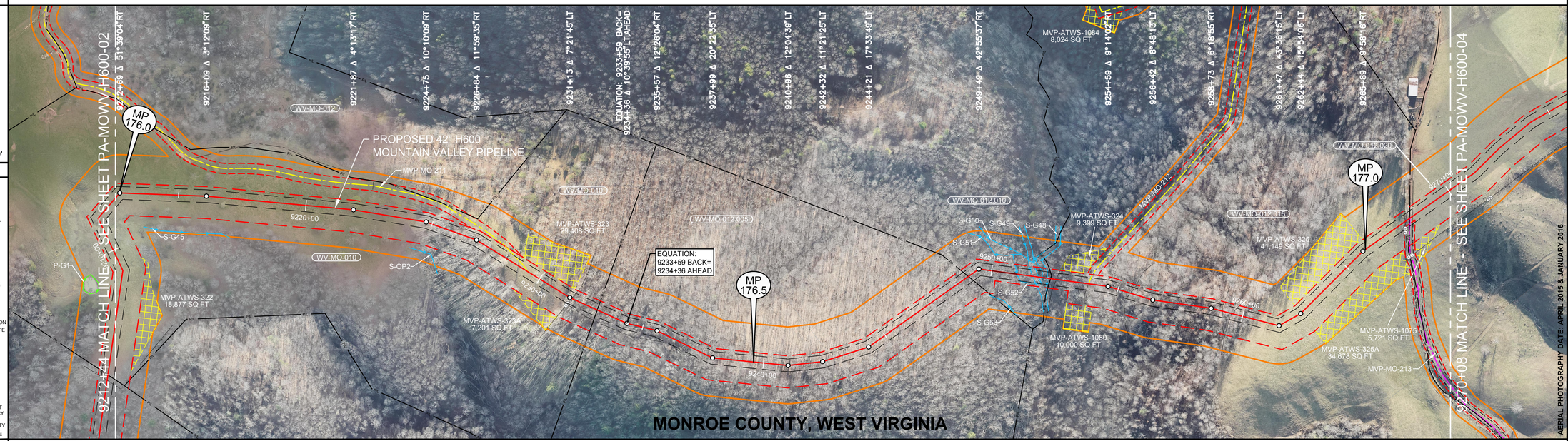
Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
WOLF CREEK DIST., MONROE CO.,W.V.
STA. 9179+42 TO STA. 9212+43

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-MOWV-H600-02
SHEET 194 OF 329	REV. 4
DATE OF PLOT: 10/11/16 8:30 AM	

RIGHT-OF-WAY & OWNERSHIP DATA		WV-MO-010 1987 LF 1996 SLOPE; WV-MO-012.005 1580 LF 1630 SLOPE; WV-MO-012.010 111 LF 114 SLOPE; WV-MO-012.005 233 LF 238 SLOPE; WV-MO-012.015 1514 LF 1603 SLOPE; WV-MO-012.015 93 LF 93 SLOPE; WV-MO-012.020 169 LF 170 SLOPE
DESIGN	PIPE / COATING	1; 4; 1
DESIGN	SLOPE DISTANCE	3871'; 120'; 1853'
DESIGN	CLASS LOCATION / HCA	1
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	
ENVIRONMENTAL	WETLAND / STREAM	S-G52 2 LF; S-G49 22 LF; S-G48 20 LF
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-H600-10	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-71	ACCESS ROAD DETAIL MAP
MVP-QDAR-H600-72	ACCESS ROAD DETAIL MAP
MVP-QDAR-H600-73	ACCESS ROAD DETAIL MAP

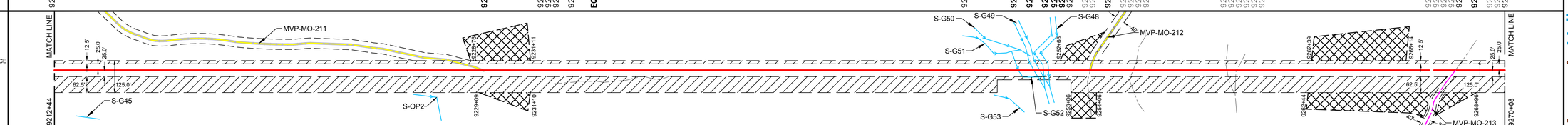
HORIZONTAL STATIONING

9212+44 MATCH LINE
9229+23 ACCESS RD – TEMPORARY (MVP–MO–211)
9231+13 GATE POST 35'RT
9231+16 GATE POST 24'RT
9231+22 FENCE – BARBED WIRE
9232+31 PROPERTY LINE
EQUATION: 9233+59 BACK= 9234+36 AHEAD
9248+99 PROPERTY LINE
9251+01 ℄ STREAM(S–G52)
9251+63 STREAM BANK(S–G49)
9251+85 STREAM BANK(S–G49)
9251+99 STREAM BANK(S–G48)
9252+19 STREAM BANK(S–G48)
9252+32 PROPERTY LINE
9252+55 FENCE – BARBED WIRE
9253+78 EDGE OF DIRT
9253+82 ACCESS ROAD – TEMPORARY (MVP–MO–212)
9253+86 EDGE OF DIRT
9253+46 EDGE OF DIRT
9255+50 ℄ FIELD ROAD(DIRT)
9255+55 EDGE OF DIRT
9258+14 EDGE OF DIRT
9259+14 ℄ FIELD ROAD(DIRT)
9259+23 EDGE OF DIRT
9259+53 EDGE OF DIRT
9259+57 ℄ FIELD ROAD(DIRT)
9259+62 EDGE OF DIRT
9267+67 GATE POST 36'RT
9267+76 GATE POST 23'RT
9267+91 FENCE – BARBED WIRE
9268+09 EDGE OF DIRT
9268+11 PROPERTY LINE
9268+11 ACCESS RD – PERMANENT (MVP–MO–213)
9268+21 EDGE OF DIRT
9268+28 FENCE – BARBED WIRE
9270+08 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

1 | 33 | 1 | 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
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
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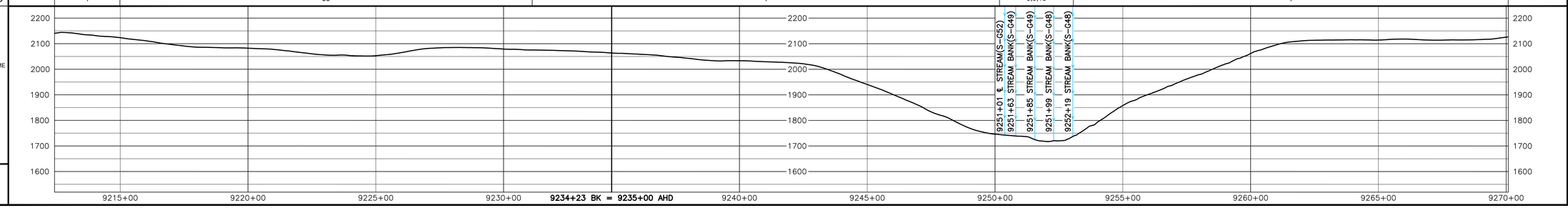
14 - PARALLEL TO POWER LINE
15 - WATERBODY X-ING OPEN CUT - DRY/DAM & PUMP
33 - SIDE HILL CONSTRUCTION
34 - 2 TONE SIDE HILL CONSTRUCTION

PROFILE



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REVISIONS

REV.	BY	DATE	DESCRIPTION
0	RBT	10-5-15	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	09-02-16	FERC DATA REQUEST No.3
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
3	9724	42"O.D. X 0.617"W.T. X 70 PE BONDED EPOXY
4	120	42"O.D. X 0.740"W.T. X 70 PE & ARO
		TYPE 1 TEST STATION - PIPELINE

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

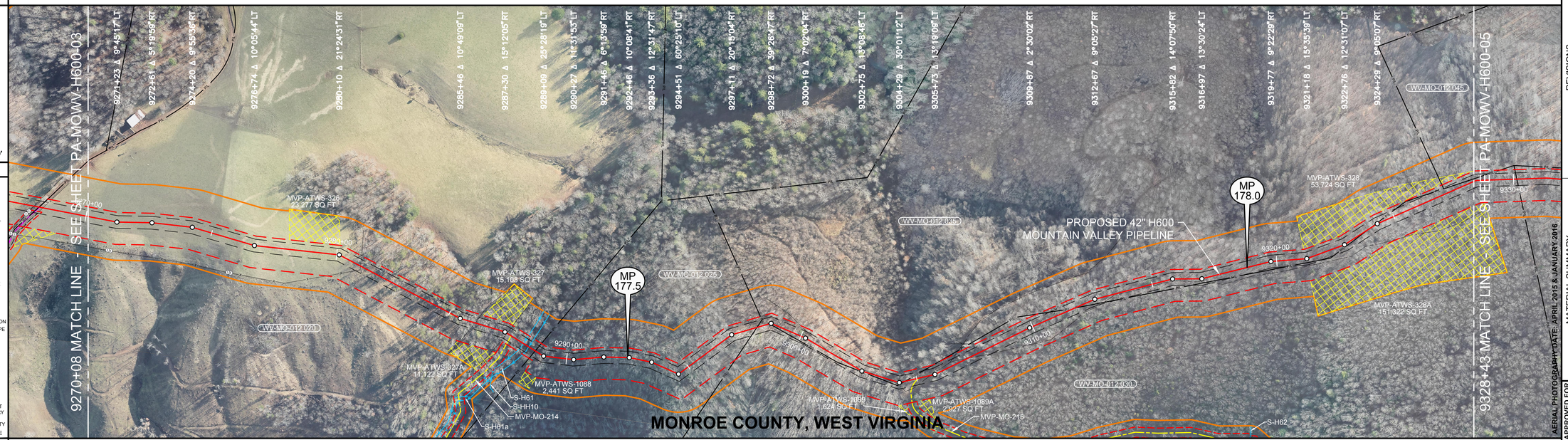
Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
WOLF CREEK DIST., MONROE CO.,W.V.
STA. 9212+44 TO STA. 9270+08

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-MOWV-H600-03
SHEET 195 OF 329	REV. 4
DATE OF PLOT: 10/11/16 8:31 AM	

RIGHT-OF-WAY & OWNERSHIP DATA	WV-MO-012.020 (9270+08 – 9288+70): 1862 LF, 1912 SLOPE; WV-MO-012.025 (9288+70 – 9296+63): 793 LF, 856 SLOPE; WV-MO-012.025 (9296+63 – 9298+41): 178 LF, 178 SLOPE; WV-MO-012.030 (9298+41 – 9306+01): 760 LF, 763 SLOPE; WV-MO-012.030 (9306+01 – 9310+38): 437 LF, 441 SLOPE; WV-MO-012.035 (9310+38 – 9327+22): 1684 LF, 1687 SLOPE; WV-MO-012.045 (9327+22 – 9328+43): 121 LF, 121 SLOPE
DESIGN – PIPE / COATING	9270+08 – 9288+04: 1; 9288+04 – 9288+44: 4; 9288+44 – 9328+43: 1
DESIGN – SLOPE DISTANCE	1846'; 40'; 4072
DESIGN – CLASS LOCATION / HCA	1
ENVIRONMENTAL – CONSTRUCTION EXCLUSION	9282+48 – 9328+43: TIME OF YEAR RESTRICTION: NO TREE CLEARING MAY 1ST TO JULY 31ST
ENVIRONMENTAL – WETLAND / STREAM	S-H61, 25 LF
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
- PL PROPERTY LINE
- R/W 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

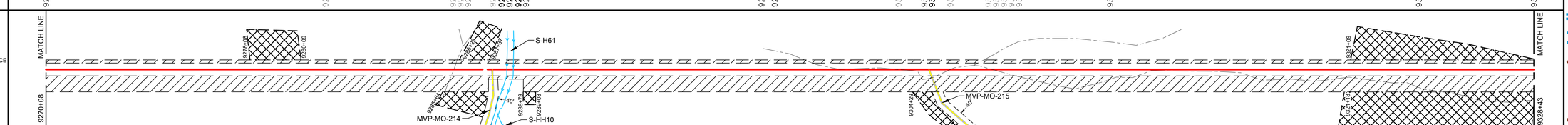
DRAWING NO.	DESCRIPTION
MVP-AR-H600-10	ACCESS ROADS, ANCILLARY SITES, MAINLINE VALVES & LAUNCHER/RECEIVER SITES
MVP-QDAR-H600-74	ACCESS ROAD DETAIL MAP

HORIZONTAL STATIONING

9270+08 MATCH LINE; 9281+04 FENCE – BARBED WIRE; 9286+04 EDGE OF DIRT; 9286+08 ℄ FIELD ROAD(DIRT); 9286+12 EDGE OF DIRT; 9287+39 FENCE – BARBED WIRE; 9288+16 STREAM BANK(S-H61); 9288+32 STREAM BANK(S-H61); 9288+60 ACCESS RD – TEMPORARY(MVP-MO-214); 9288+70 PROPERTY LINE; 9298+14 PROPERTY LINE; 9298+65 PROPERTY LINE; 9303+51 ℄ FIELD ROAD(DIRT); 9304+53 PROPERTY LINE; 9304+70 ACCESS RD – TEMPORARY(MVP-MO-215); 9305+55 ℄ FIELD ROAD(DIRT); 9307+04 EDGE OF DIRT; 9307+14 CULVERT OPEN END 72'LT; 9307+19 ℄ FIELD ROAD(DIRT); 9307+26 CULVERT OPEN END 55'LT; 9307+34 EDGE OF DIRT; 9311+81 PROPERTY LINE; 9323+92 PROPERTY LINE; 9328+43 MATCH LINE

WORK SPACE

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



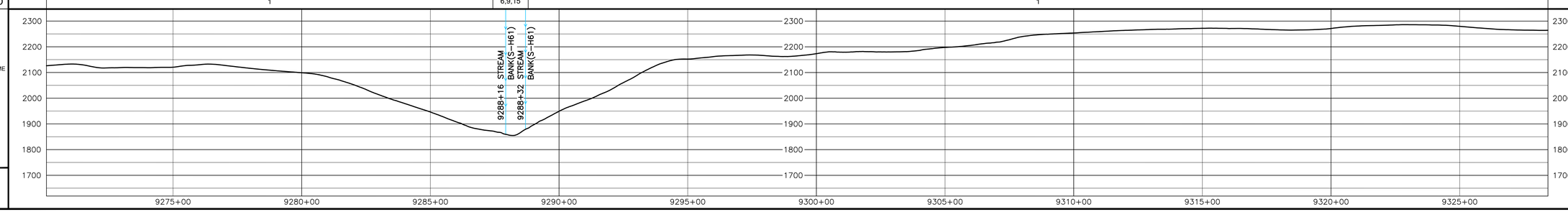
CONSTRUCTION METHOD

1 | 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
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



OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2 | 2655 Evergreen Rd. Suite 430
Holland, Michigan 49423-3786 | Southfield, Michigan 48076
T 616.396.6068 F 616.392.3137 | T 248.557.7220 F 248.557.7049
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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. 1.0 ISSUED TO FERC
4	HEI	10-14-16	OCTOBER 2016 PROPOSED ROUTE - ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	9918	42"O.D. X 0.617"W.T. X 70 BONDED EPOXY
4	40	42"O.D. X 0.740"W.T. X 70 FBE & ARO
		TYPE 1 TEST STATION - PIPELINE

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

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	

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
WOLF CREEK DIST., MONROE CO.,W.V.
STA. 9270+08 TO STA. 9328+43

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-MOWV-H600-04
SHEET 196 OF 329	REV. 4
DATE OF PLOT: 10/11/16 8:31 AM	