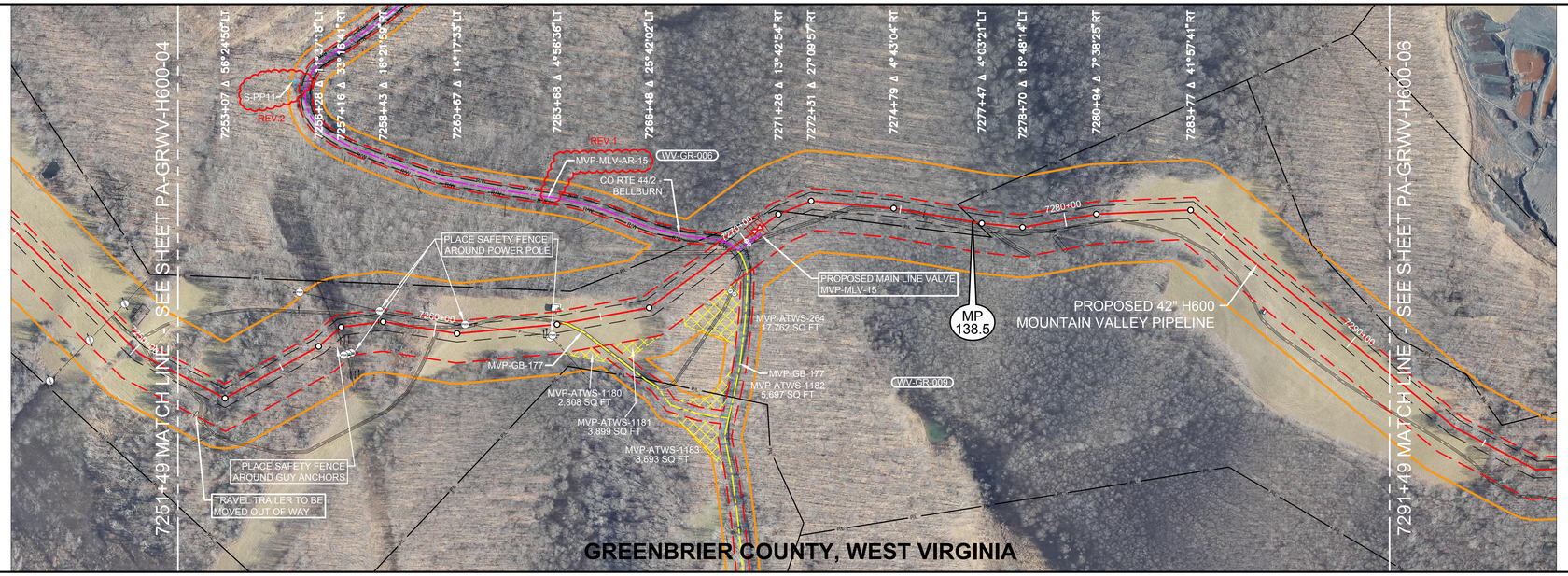
RIGHT-OF-WAY & OWNERSHIP DATA

		7251+49		7270+38		7277+80		7291+49
		WV-GR-009		WV-GR-006		WV-GR-009		
		1889 LF 1908 SLOPE		WV-GR-009 742 LF 746 SLOPE		1369 LF 1375 SLOPE		
DESIGN	PIPE / COATING	7251+49 1	7269+38	4	7269+78	1	7291+49	
	SLOPE DISTANCE	1908'		40'		2081'		
	CLASS LOCATION / HCA	1						
ENVIRONMENTAL	CONSTRUCTION EXCLUSION							
	WETLAND / STREAM							
	.							
	.							



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

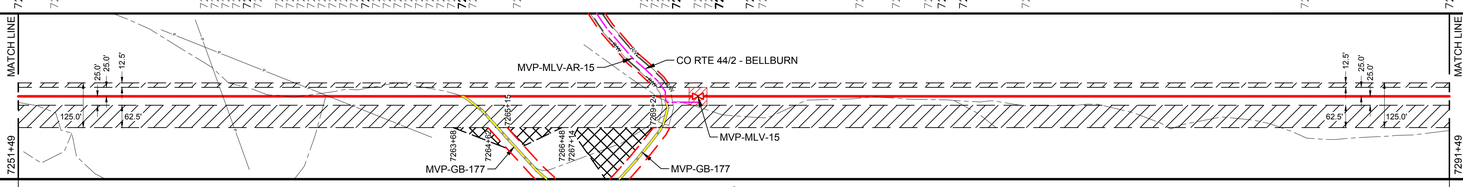
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

7251+49 MATCH LINE
7252+50 BUILDING – TRAVEL TRAILER 72'RT
7256+68 POWER POLE 69'RT
7256+79 POWER POLE 74'RT
7256+90 POWER POLE 78'RT
7256+95 GUY ANCHOR 22'RT
7257+01 OHP LINE
7257+07 GUY ANCHOR 26'RT
7257+35 GUY ANCHOR 28'RT
7258+32 GUY ANCHOR 19'LT
7258+37 POWER POLE 34'LT
7258+48 ℄ FIELD ROAD(DIRT)
7258+48 EDGE OF ROAD(DIRT)
7259+38 ℄ FIELD ROAD(DIRT)
7259+66 EDGE OF DIRT
7260+44 POWER POLE 25'LT
7260+44 OHP LINE
7263+27 GUY ANCHOR 12'RT
7263+36 GUY ANCHOR 8'RT
7263+44 POWER POLE 37'RT
7263+57 POWER POLE 31'RT
7263+67 BUILDING – DEER SHACK 37'LT
7263+72 ANTENNA 32'LT
7263+75 EDGE OF DIRT
7263+77 GAS VALVE 37'LT
7263+89 ACCESS RD - TEMPORARY(MVP-GB-177)
7264+03 EDGE OF DIRT
7265+43 PROPERTY CORNER 49'LT
7269+23 EDGE OF DIRT
7269+34 ℄ FIELD ROAD(DIRT)
7269+44 EDGE OF GRAVEL
7269+58 CO RTE 44/2 - BELLBURN
7269+58 ACCESS RD - PERMANENT(MVP-MLV-AR-15)
7269+82 EDGE OF GRAVEL
7270+01 GATE POSTS 8' & 21'RT
7270+47 PROPOSED MAIN LINE VALVE (MP-MLV-15)
7271+47 PROPERTY LINE
7272+18 PAINTED ROCK 31'LT
7275+00 EDGE OF DIRT
7275+73 CULVERT, OPEN ENDS 8'LT & 12'RT
7275+96 EDGE OF DIRT
7277+30 PROPERTY LINE
7277+78 PROPERTY CORNER 4'LT
7279+65 BUILDING – MOBILE HOME 41'RT
7287+45 BUILDING – MOBILE HOME 87'RT
7291+49 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

CONSTRUCTION METHOD KEY
1 - TYPICAL R/W CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
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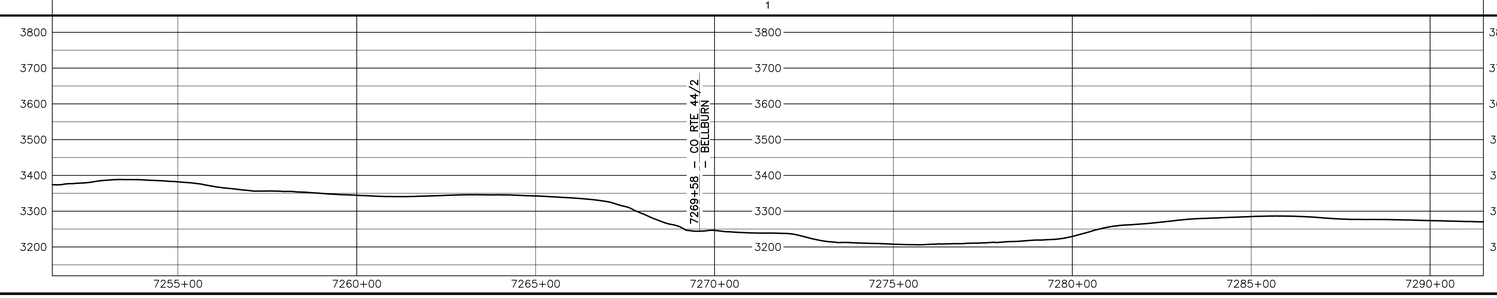
PROFILE



REV 4.0.0 - ISSUED TO FERC

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Holland, Michigan 49423-3786 | Southfield, Michigan 48075
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REVISIONS

REV.	BY	DATE	DESCRIPTION
4	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC
3	HEI	01-06-16	FERC DATA REQUEST 21 - MVP-MVP-MLV-AR-15
2	HEI	04-12-16	FERC DATA REQUEST No.2

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
	3009	42"O.D. X 0.617"W.T. X 70 FUSION BONDED EPOXY
	120	42"O.D. X 0.740"W.T. X 70 PRE & ARO
4		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
-	-	-	-	-	-	0	HEI	10-15-15

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
MEADOW BLUFF DIST., GREENBRIER CO.,W.V.
STA. 7251+49 TO STA. 7291+49

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-GRWV-H600-05**
SHEET 152 OF 326	REV. 2
DATE OF PLOT: 04/19/16 12:14 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

Station	Tract	Length
7291+49	WV-GR-009	1915 LF, 1920 SLOPE
7310+64	WV-GR-010 / WV-GR-009	88 LF, 88 SLOPE
7311+52	WV-GR-009	395 LF, 395 SLOPE
7315+47	WV-GR-010 / WV-GR-009	84 LF, 85 SLOPE
7316+31	WV-GR-010 / WV-GR-009 / WV-GR-011	42 LF, 42 SLOPE
7316+73	WV-GR-010 / WV-GR-011	90 LF, 91 SLOPE
7317+63	WV-GR-010	193 LF, 194 SLOPE
7319+56	WV-GR-012 / WV-GR-010	176 LF, 177 SLOPE
7321+32	WV-GR-012	228 LF, 233 SLOPE
7323+60	WV-GR-012 / WV-GR-013	207 LF, 224 SLOPE
7325+67	WV-GR-013	1255 LF, 1274 SLOPE
7338+22	WV-GR-012	1058 LF, 1061 SLOPE
7348+80		

DESIGN

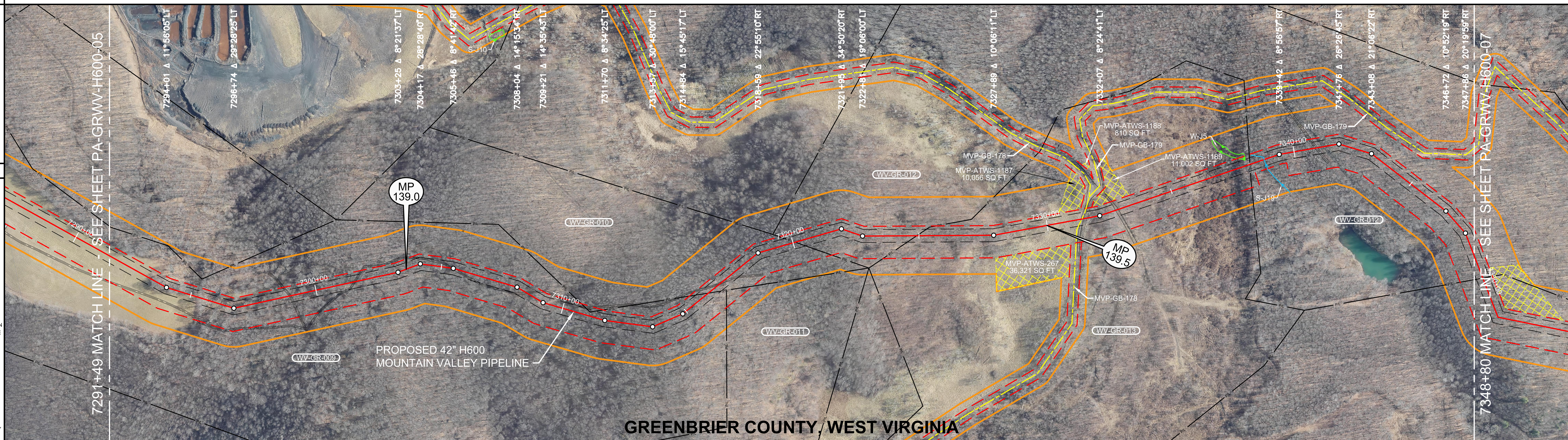
	7291+49 to 7348+80
PIPE / COATING	1
SLOPE DISTANCE	5784'
CLASS LOCATION / HCA	1

ENVIRONMENTAL

CONSTRUCTION EXCLUSION		
WETLAND / STREAM	W-J5 29 LF	S-J19 2 LF
.		
.		

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
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- BARRACADE FENCE
- PI SYMBOL
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- POWER/TELE POLE
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- TANK
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- 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

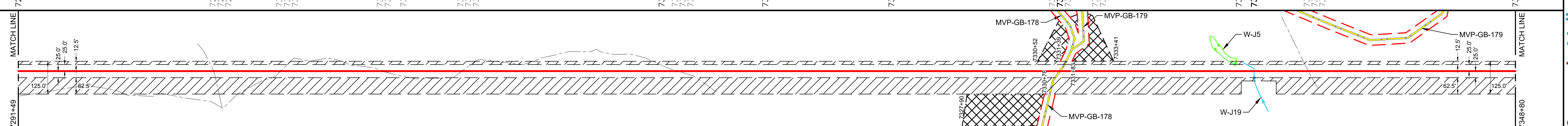
REV 4.0.0 - ISSUED TO FERC

HORIZONTAL STATIONING

- 7291+49 MATCH LINE
- 7298+93 EDGE OF DIRT; 7298+98 ℄ FIELD ROAD(DIRT); 7299+02 EDGE OF DIRT
- 7301+48 EDGE OF DIRT; 7301+53 ℄ FIELD ROAD(DIRT); 7301+58 EDGE OF DIRT
- 7305+33 EDGE OF DIRT; 7305+42 ℄ FIELD ROAD(DIRT); 7305+54 EDGE OF DIRT
- 7308+41 EDGE OF DIRT; 7308+47 ℄ FIELD ROAD(DIRT); 7308+53 EDGE OF DIRT
- 7316+12 PROPERTY LINE
- 7316+62 EDGE OF DIRT; 7316+74 ℄ FIELD ROAD(DIRT); 7316+86 EDGE OF DIRT
- 7320+08 PROPERTY LINE
- 7324+92 PROPERTY LINE
- 7331+33 EDGE OF DIRT; **7331+37 ACCESS RD - TEMPORARY(MVP-GB-178)**; 7331+43 EDGE OF DIRT
- 7332+71 EDGE OF DIRT; 7332+83 EDGE OF DIRT
- 7338+22 PROPERTY LINE
- **7338+80 ℄ STREAM(S-J19)**
- 7340+81 EDGE OF DIRT; 7340+87 ℄ FIELD ROAD(DIRT); 7340+93 EDGE OF DIRT
- 7348+80 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

7291+49 – 7338+22	7338+22 – 7339+56	7339+56 – 7348+80
1	3	1

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
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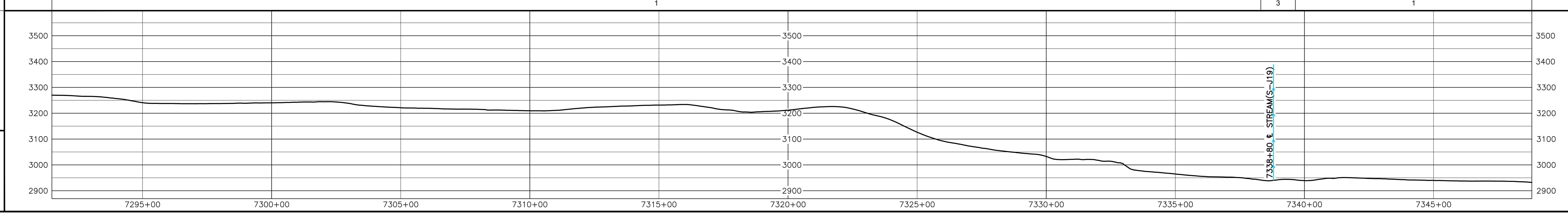
PROFILE



REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5784	42"O.D. X 0.617"W.T., X-70, FUSION BONDED EPOXY
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION	REV.	BY	DATE
	.	.	.

APPROVED FOR BIDDING	REV.	BY	DATE
	.	.	.

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

HOLLAND ENGINEERING
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Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE
MEADOW BLUFF DIST., GREENBRIER CO.,W.V.
STA. 7291+49 TO STA. 7348+80

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-GRWV-H600-06	
SHEET 153 OF 326	REV. 0
DATE OF PLOT: 04/19/16 12:15 PM	

RIGHT-OF-WAY & OWNERSHIP DATA

Station range	Ownership	Length
7348+80 – 7349+73	WV-GR-012	93 LF / 93 SLOPE
7349+73 – 7359+05	WV-GR-015	932 LF / 961 SLOPE
7359+05 – 7359+61	WV-GR-012 / WV-GR-015	56 LF / 56 SLOPE
7359+61 – 7360+84	WV-GR-012 / CSX RAILROAD / WV-GR-015	123 LF / 123 SLOPE
7360+84 – 7360+97	CSX RAILROAD / WV-GR-012	13 LF / 14 SLOPE
7360+97 – 7362+26	WV-GR-012	129 LF / 132 SLOPE
7362+26 – 7367+52	WV-GR-014	526 LF / 564 SLOPE
7367+52 – 7370+02	WV-GR-014 / WV-GR-015	250 LF / 252 SLOPE
7370+02 – 7374+23	WV-GR-015	421 LF / 422 SLOPE
7374+23 – 7381+81	WV-GR-016	758 LF / 759 SLOPE
7381+81 – 7382+62	WV-GR-016 / WV-GR-022	81 LF / 81 SLOPE
7382+62 – 7386+80	WV-GR-022	418 LF / 424 SLOPE
7386+80 – 7387+10	COUNTY ROUTE 4	30 LF - 31 SLOPE
7387+10 – 7406+05	WV-GR-022	1895 LF / 1912 SLOPE

DESIGN

	7348+80 – 7359+75	7359+75 – 7360+96	7360+96 – 7386+75	7386+75 – 7387+15	7387+15 – 7406+05
PIPE / COATING	1	5	1	4	1
SLOPE DISTANCE	1125'	120'	2630'	40'	1909'
CLASS LOCATION / HCA	1				

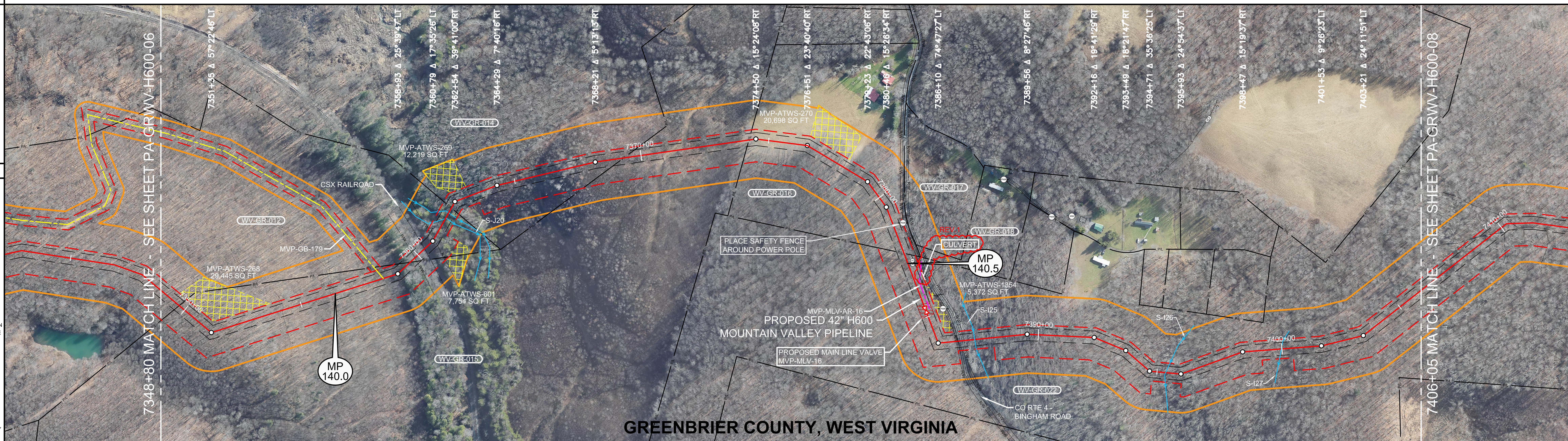
ENVIRONMENTAL

CONSTRUCTION EXCLUSION

WETLAND / STREAM	S-J20	S-I25	S-I26	S-I27
	30 LF	5 LF	0 LF	2 LF

0' 100' 200' 400'

PLAN VIEW



AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

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
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- ROAD RIGHT-OF-WAY
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- 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

REV 4.0.0 - ISSUED TO FERC

REFERENCE DRAWINGS

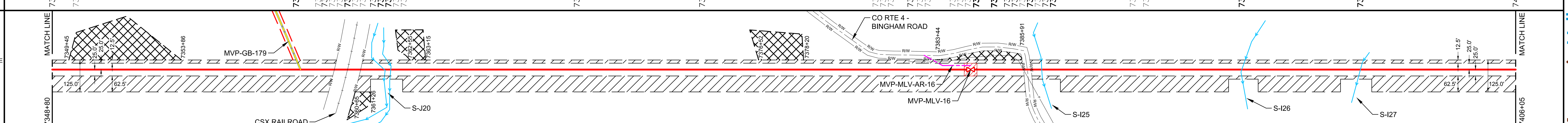
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

- 7348+80 MATCH LINE
- 7349+73 PROPERTY LINE
- **7358+34 ACCESS RD - TEMPORARY(MVP-GB-179)**
- 7359+59 PROPERTY LINE
- 7359+84 RIGHT-OF-WAY
- 7360+25 TOE OF BALLAST
- 7360+31 TOP OF BALLAST
- **7360+35 ℄ CSX RAILROAD**
- 7360+39 TOP OF BALLAST
- 7360+45 TOE OF BALLAST
- 7360+88 RIGHT-OF-WAY
- **7361+79 STREAM BANK(S-J20)**
- **7362+04 STREAM BANK(S-J20)**
- 7362+26 PROPERTY LINE
- 7362+73 PROPERTY CORNER 49'RT
- 7369+32 PROPERTY LINE
- 7374+23 PROPERTY LINE
- 7381+01 CULVERT 46'LT
- 7381+08 CULVERT 74'LT
- 7381+26 POWER POLE 39'LT
- 7382+37 PROPERTY LINE
- 7382+75 GATE POST 21'LT
- 7382+89 GATE POST 16'LT
- 7384+33 CULVERT 50'LT
- 7384+39 CULVERT 84'LT
- 7384+92 POWER POLE 65'LT
- **7384+73 PROPOSED MAIN LINE VALVE (MVP-MLV-16)**
- **7384+73 ACCESS ROAD - PERMANENT (MVP-MLV-AR-16)16'LT**
- 7386+80 RIGHT-OF-WAY
- 7386+87 OHP LINE
- 7386+88 EDGE OF GRAVEL
- **7386+95 ℄ CO RTE 4 - BINGHAM ROAD**
- 7387+03 EDGE OF GRAVEL
- 7387+10 RIGHT-OF-WAY
- **7387+52 ℄ STREAM(S-I25)**
- 7391+07 WELL - WATER 465'LT
- 7391+59 BUILDING - HOUSE 440'LT
- **7395+33 ℄ STREAM(S-I26)**
- **7399+98 ℄ STREAM(S-I27)**
- 7406+05 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

7348+80 – 7361+26	– 7362+26	– 7386+80	– 7387+75	– 7395+05	– 7395+60	– 7399+50	– 7400+05	– 7406+05
1	3	1	3	1	3	1	3	1

CONSTRUCTION METHOD KEY

1 - TYPICAL R/W CONFIGURATION
2 - TYPICAL R/W CONFIGURATION
3 - TYPICAL "SKINNEY" FOR WATER BODY
4 -
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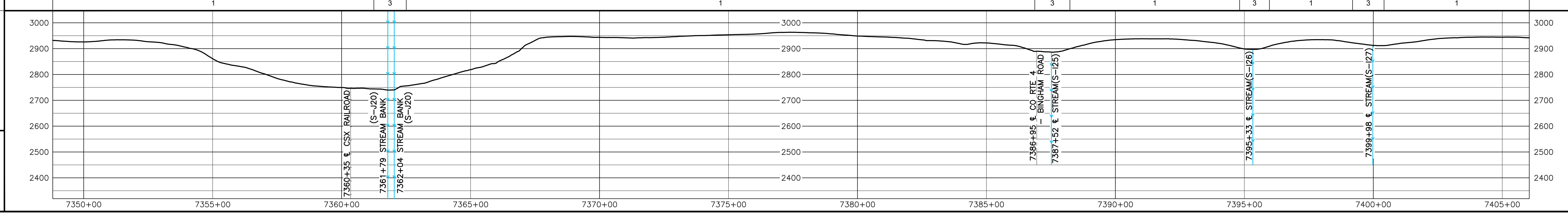
PROFILE



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26555 Evergreen Rd. Suite 430, Southfield, Michigan 48076, T 248-827-7322 F 248-827-7549
www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION
0	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC
1	HEI	04-12-16	FERC DATA REQUEST No.2

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5664	42"O.D. X 0.617"W.T., X-70, FUSION BONDED EPOXY
4	40	42"O.D. X 0.740"W.T., X-70, FBE & ARO
5	120	42"O.D. X 0.888"W.T., X-70, FBE & ARO
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

APPROVED FOR CONSTRUCTION		
REV.	BY	DATE
.	.	.

APPROVED FOR BIDDING		
REV.	BY	DATE
.	.	.

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

Mountain Valley PIPELINE

PIPELINE ALIGNMENT
MOUNTAIN VALLEY PROJECT - H600 LINE
MEADOW BLUFF DIST., GREENBRIER CO.,W.V.
STA. 7348+80 TO STA. 7406+05

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-GRWV-H600-07	
SHEET 154 OF 326	REV. 1
DATE OF PLOT: 04/19/16 12:15 PM	