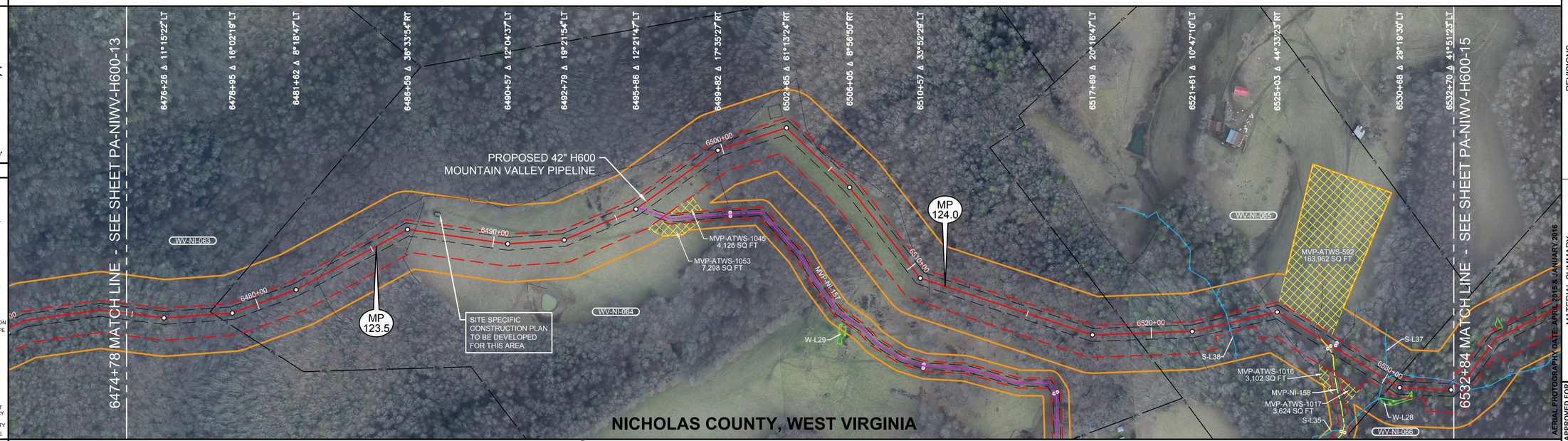
RIGHT-OF-WAY & OWNERSHIP DATA																							
	6474+78	WV-NI-063		WV-NI-063	WV-NI-064				WV-NI-064					WV-NI-065		WV-NI-065			WV-NI-066		6532+84
		331 LF 334 SLOPE	6478+09	WV-NI-064		6479+45	WV-NI-063	6479+08	3993 LF 4009 SLOPE				6518+51	WV-NI-064	6519+90	1047 LF 1073 SLOPE		6530+37	247 LF 248 SLOPE		
				WV-NI-063																	
DESIGN — PIPE / COATING	6474+78								1												6532+84
DESIGN — SLOPE DISTANCE									5853'												
DESIGN — CLASS LOCATION / HCA									1												
ENVIRONMENTAL — CONSTRUCTION EXCLUSION																					
ENVIRONMENTAL — WETLAND / STREAM															S-L38			S-L35	W-L28		
															0 LF			0 LF	15 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

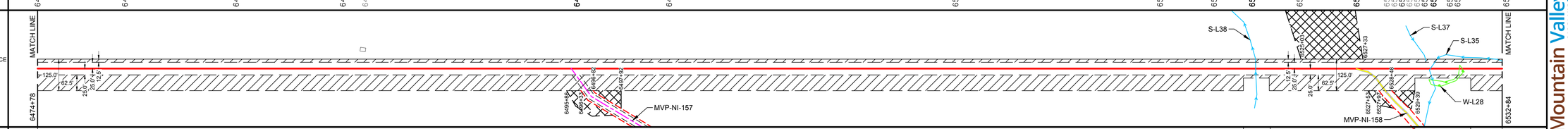
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

6474+78 MATCH LINE | 6478+24 PROPERTY LINE | 6482+65 FENCE – BARBED WIRE | 6486+88 FENCE – BARBED WIRE | 6487+77 BUILDING – HUNTING CABIN 66'LT | 6495+95 ACCESS RD – PERMANENT(MVP–NI–157) | 6499+81 FENCE – BARBED WIRE | 6510+93 FENCE – BARBED WIRE | 6519+27 PROPERTY LINE | 6521+42 FENCE – BARBED WIRE | 6523+07 ℄ STREAM(S–L38) | 6524+81 FENCE – BARBED WIRE | 6527+07 ACCESS RD – TEMPORARY (MVP–NI–158) | 6527+47 GATE POST 18'RT | 6527+52 GATE POST 31'RT | 6527+55 FENCE – BARBED WIRE | 6527+67 GATE POST 20'LT | 6527+72 GATE POST 20'LT | 6527+77 FENCE – BARBED WIRE | 6529+87 ℄ STREAM(S–L35) | 6530+17 FENCE – BARBED WIRE | 6530+37 PROPERTY LINE | 6532+84 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 | 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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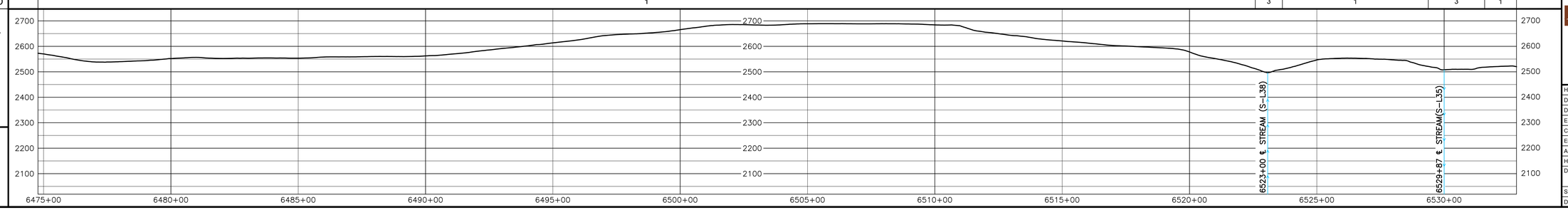
PROFILE



REV 4.0.0 - ISSUED TO FERC

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2 | 26055 Evergreen Rd, Suite 430
Huron, Michigan 48170-9292 | Southfield, Michigan 48037
t/f: 734.397.8100 | t/f: 248.557.7549
www.hollandengineering.com

REVISIONS

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

AERIAL PHOTOGRAPHY DATE: APRIL 2016 & JANUARY 2016

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5853	42"O.D. X 0.617"W.T. X-65 FBE 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
						0	HRR	10-15-15

Mountain Valley PIPELINE

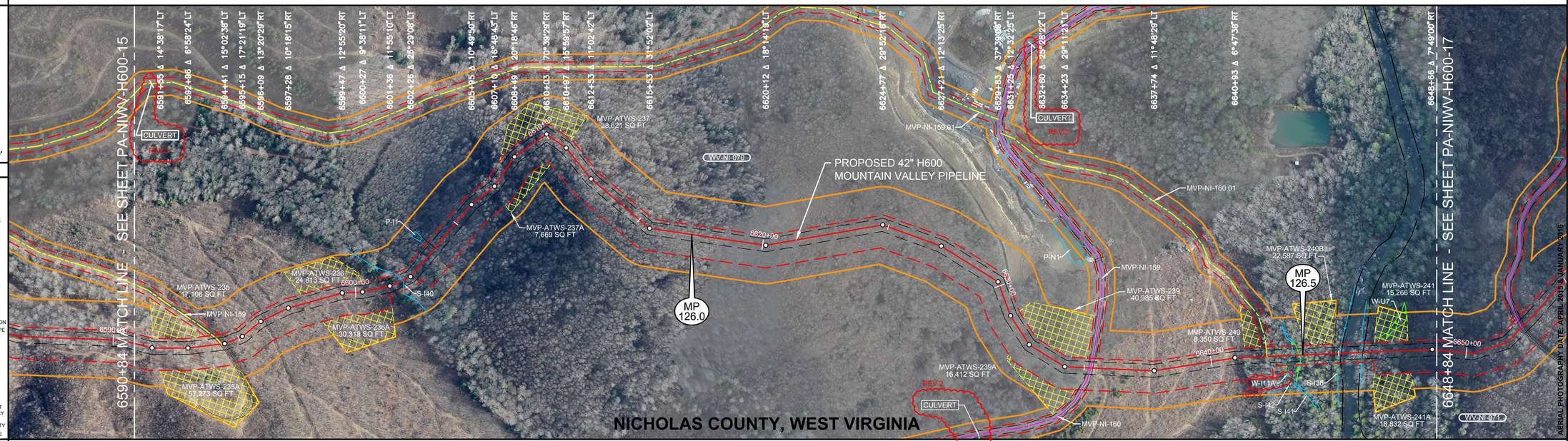
PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
KENTUCKY DIST., NICHOLAS CO.,W.V.
STA. 6474+78 TO STA. 6532+84

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-NIWV-H600 -14	
SHEET 136 OF 326	REV. 0
DATE OF PLOT: 04/19/16 11:47 AM	

| RIGHT-OF-WAY & OWNERSHIP DATA | | |

RIGHT-OF-WAY & OWNERSHIP DATA		6590+84	WV-NI-070 5426 LF 5606 SLOPE				HOMINY CREEK 85 LF 86 SLOPE	6645+10 6645+95	WV-NI-071 289 LF 301 SLOPE	6648+84
DESIGN	PIPE / COATING	6590+84	1							6648+84
	SLOPE DISTANCE		5993'							
	CLASS LOCATION / HCA		1							
ENVIRONMENTAL	CONSTRUCTION EXCLUSION									
	WETLAND / STREAM			S-I40 7 LF					REV.2 W-I11A 57 LF	S-I41 8 LF / S-I36 55 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
- 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

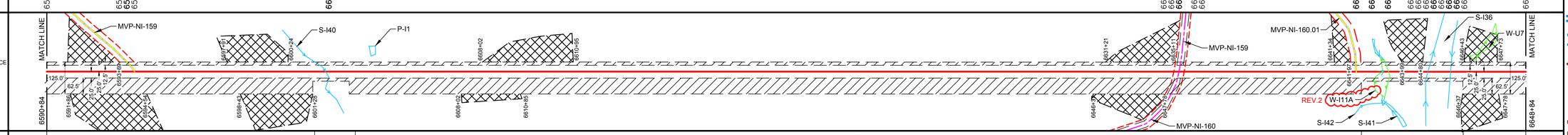
DRAWING NO.	DESCRIPTION

HORIZONTAL STATIONING

6590+84 MATCH LINE
6594+22 EDGE OF DIRT
6594+28 ACCESS RD – TEMPORARY(MVP–NI–159)
6594+34 EDGE OF DIRT
6601+90 ℄ STREAM(S–I40)
6635+17 CULVERT 20'LT
6635+17 EDGE OF GRAVEL
6635+25 ACCESS RD –PERMANENT(MVP–NI–160) & (MVP–NI–159)
6635+33 EDGE OF GRAVEL
6635+48 CULVERT 20'LT
6642+19 ACCESS RD – TEMPORARY (MVP–NI–160.01)
6643+23 STREAM BANK(S–I41)
6643+23 BEGIN WETLAND(W–I11A)
6643+46 STREAM BANK(S–I41)
6643+46 END WETLAND(W–I11A)
6644+76 EDGE OF DIRT
6644+80 ℄ FIELD ROAD(DIRT)
6644+84 EDGE OF DIRT
6645+01 STREAM BANK(S–I36)
6645+01 PROPERTY LINE
6645+46 ℄ HOMINY CREEK
6645+90 STREAM BANK(S–I36)
6645+95 PROPERTY LINE
6648+84 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 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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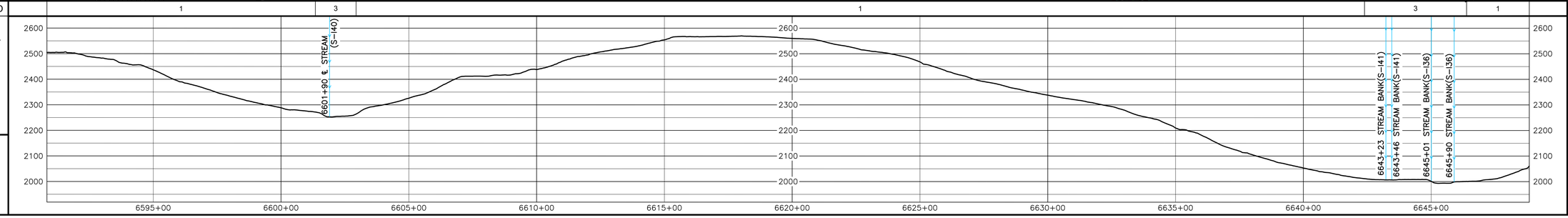
PROFILE



REV 4.0.0 - ISSUED TO FERC

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2 | 26055 Evergreen Rd, Suite 430
Frankfort, KY 40601 | Southfield, Michigan 48075
Phone: 502-352-9292 | Fax: 502-352-9293 | Southfield: 313-277-7549
www.hollandengineering.com

REVISIONS

REV.	BY	DATE	DESCRIPTION
2	HEI	10-15-15	REV 4.0.0 ISSUED TO FERC
1	HEI	01-19-16	FERC DATA REQUEST 21 - ADDED NHD WATERBODY
2	HEI	04-12-16	FERC DATA REQUEST No.2

MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
	5993	42"O.D. X 0.617"W.T. X-65 FBE BONDED EPOXY
		TYPE 1 TEST STATION - PIPELINE
		TYPE 4 TEST STATION - FOREIGN CROSSING

AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

APPROVED FOR CONSTRUCTION			APPROVED FOR BIDDING			APPROVED FOR FERC		
REV.	BY	DATE	REV.	BY	DATE	REV.	BY	DATE
						0	HEI	10-15-15

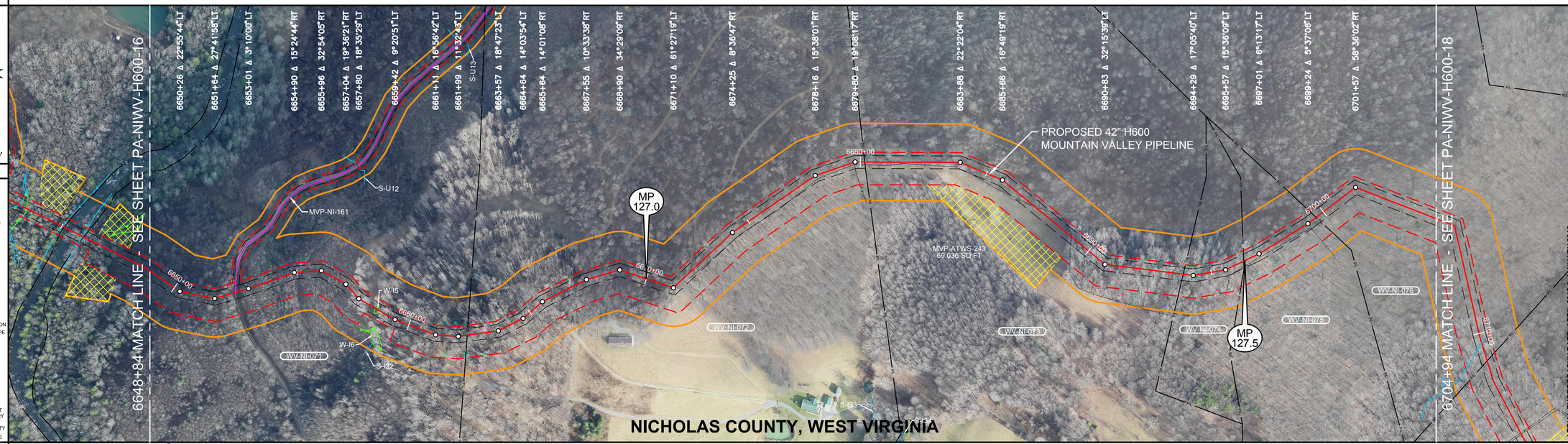
Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
KENTUCKY & WILDERNESS DIST., NICHOLAS CO.,W.V.
STA. 6590+84 TO STA. 6648+84

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-NIWV-H600 -16
SHEET 138 OF 326	REV. 2
DATE OF PLOT: 04/20/16 8:29 AM	

RIGHT-OF-WAY & OWNERSHIP DATA																							
		6648+84	WV-NI-071 1351 LF 1450 SLOPE	6652+35	WV-NI-072 1782 LF 1824 SLOPE	6680+17	WV-NI-073 1373 LF 1387 SLOPE	6693+90	WV-NI-074 191 LF 191 SLOPE	6695+81	WV-NI-074 / WV-NI-075 70 LF 70 SLOPE	6696+51	WV-NI-075 314 LF 315 SLOPE	6699+65	WV-NI-076 529 LF 536 SLOPE	6704+94								
DESIGN	PIPE / COATING	6648+84	1													6704+94							
	SLOPE DISTANCE		5773'																				
	CLASS LOCATION / HCA		1																				
ENVIRONMENTAL	CONSTRUCTION EXCLUSION							6693+75	TIME OF YEAR RESTRICTION: TIMBER TO BE DOWN BY TO MAY 31, 2017							6704+94							
	WETLAND / STREAM				W-I5 14 LF																		
	.																						
	.																						



AERIAL PHOTOGRAPHY DATE: APRIL 2015 & JANUARY 2016

REV 4.0.0 - ISSUED TO FERC

PLAN VIEW

0' 100' 200' 400'

LEGEND

- STUDY CORRIDOR
- PROPOSED 42"PIPELINE
- NON-SURVEYED C/L
- 500' TICK MARK
- EXISTING PIPELINE
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- WORK SPACE LIMITS
- PERMANENT ACCESS RD
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- BARRACADE FENCE
- PI SYMBOL / MAILBOX
- PROPOSED TEST STATION
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- TANK / GAS VALVE
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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

HORIZONTAL STATIONING

6648+84 MATCH LINE
6652+44 EDGE OF DIRT
6652+48 ACCESS RD - PERMANENT(MVP-NI-161)
6652+54 EDGE OF DIRT
6658+56 BEGIN WETLAND(W-I5)
6658+70 END WETLAND(W-I5)
6662+35 PROPERTY LINE
6680+17 PROPERTY LINE
6687+31 FENCE - BARBED WIRE
6689+13 FENCE - BARBED WIRE
6693+90 PROPERTY LINE
6696+35 PROPERTY LINE
6699+65 PROPERTY LINE
6704+94 MATCH LINE

WORK SPACE

- PROPOSED PIPELINE
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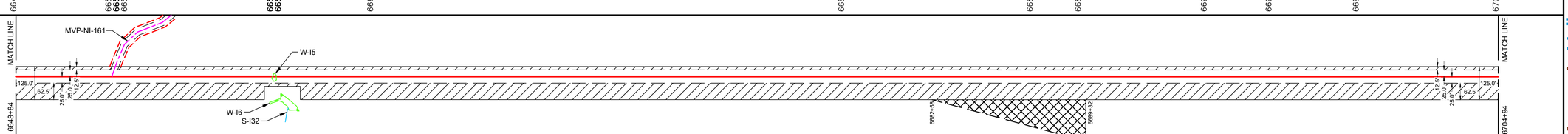
- TEMPORARY WORK SPACE(TWS)
- ADD. TEMPORARY WORK SPACE(ATWS)



CONSTRUCTION METHOD

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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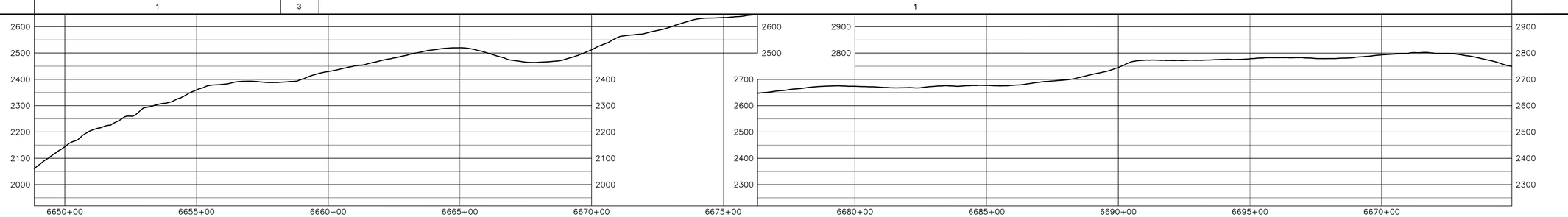
PROFILE



MATERIAL SUMMARY

MK. NO.	QTY.	DESCRIPTION
1	5773	42"O.D. X 0.617"W.T. X-70 FUSION BONDED EPOXY
2		TYPE 1 TEST STATION - PIPELINE
3		TYPE 4 TEST STATION - FOREIGN CROSSING

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

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

HOLLAND ENGINEERING
220 Hoover Boulevard, Suite 2 | 26055 Evergreen Rd, Suite 430
Holly, Michigan 48442-9292 | Southfield, Michigan 48075
t / f: 248.634.9488 / 248.634.9489 | t / f: 248.557.7333 / 248.557.7349
www.hollandengineering.com

Mountain Valley PIPELINE

PIPELINE ALIGNMENT

MOUNTAIN VALLEY PROJECT - H600 LINE
WILDERNESS DIST., NICHOLAS CO.,W.V.
STA. 6648+84 TO STA. 6704+94

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-NIWV-H600 -17
SHEET 139 OF 326	REV. 1
DATE OF PLOT: 04/19/16 11:49 AM	

| RIGHT-OF-WAY & OWNERSHIP DATA | | |