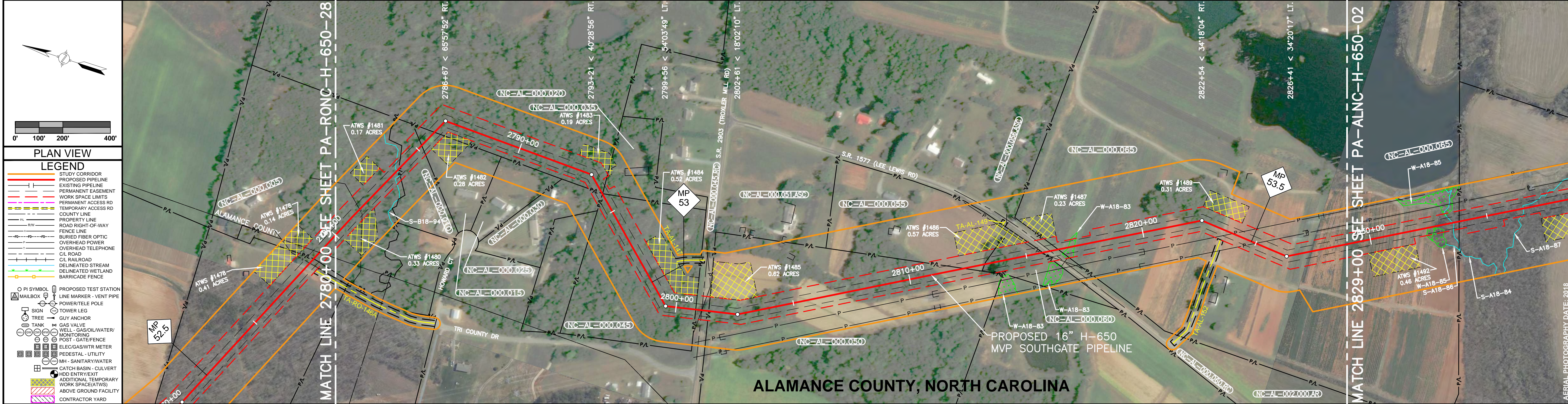


RIGHT-OF-WAY & OWNERSHIP DATA	ACRES																															
	2780+00	2780+00	2783+88	2785+23	2786+00	2794+13	2794+15	2800+83	2801+38	2812+33	2813+22	2815+70	2816+37	2829+00	2780+00	2780+00	2783+88	2785+23	2786+00	2794+13	2794+15	2800+83	2801+38	2812+33	2813+22	2815+70	2816+37	2829+00				
PIPE / COATING																																
SLOPE DISTANCE																																
CLASS LOCATION / HCA																																
CONSTRUCTION EXCLUSION																																
WETLAND / STREAM	S-B18-94 < 1 LF															W-A18-83 < 26 LF																

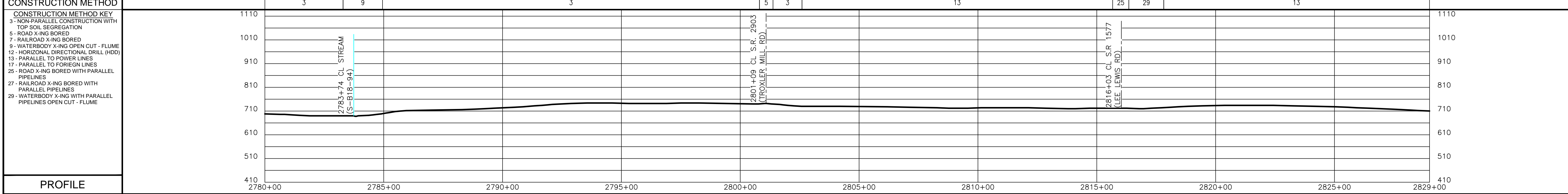
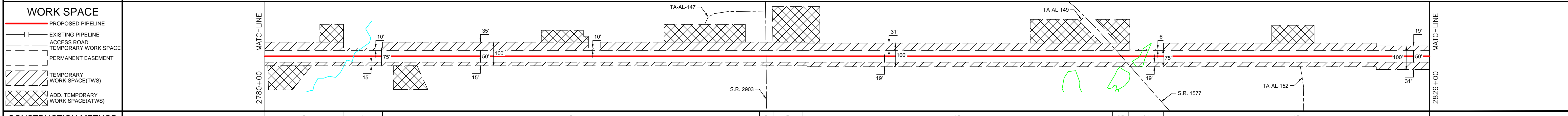


**ALAMANCE COUNTY, NORTH CAROLINA**

REFERENCE DRAWINGS	APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING				
DRAWING NO.	REV.	DATE	DESCRIPTION	REV.	DATE	DESCRIPTION

**ISSUED FOR FER**

HORIZONTAL STATIONING	DESCRIPTION
2780+00	MATCH LINE
2781+49	FENCE, 4' HOG WIRE
2783+74	CL STREAM (S-B18-94)
2783+88	PROPERTY LINE
2785+23	PROPERTY LINE
2786+00	PROPERTY LINE
2794+13	PROPERTY LINE
2794+15	PROPERTY LINE
2800+83	PROPERTY LINE
2801+09	EDGE OF ROAD (Troxler Mill Rd)
2801+18	EDGE OF ROAD
2801+38	PROPERTY LINE
2812+33	PROPERTY LINE
2813+22	PROPERTY LINE
2815+61	OVERHEAD POWER LINE
2815+70	PROPERTY LINE
2815+76	EDGE OF ROAD
2815+86	EDGE OF ROAD
2816+03	CL S.R. 1577 (LEE LEWIS RD)(ASPHALT)
2816+16	EDGE OF ROAD
2816+37	PROPERTY LINE
2817+01	BEGIN WETLAND (W-A18-83)
2817+01	END WETLAND (W-A18-83)
2823+44	EDGE OF ROAD (GRAVEL)
2823+50	EDGE OF ROAD
2823+95	OVERHEAD TRANSMISSION LINE
2824+78	EDGE OF ROAD
2824+97	CL ROAD (DIRT)
2825+00	OVERHEAD TRANSMISSION LINE
2829+00	MATCH LINE



REVISIONS	DESCRIPTION	DATE	BY
R1	ISSUED FOR REVIEW	06/13/18	TRC
R2	FERC DRAWING CLIENT REVIEW	08/20/18	TRC
R3	FERC DRAWING CLIENT REVIEW	11/02/18	TRC

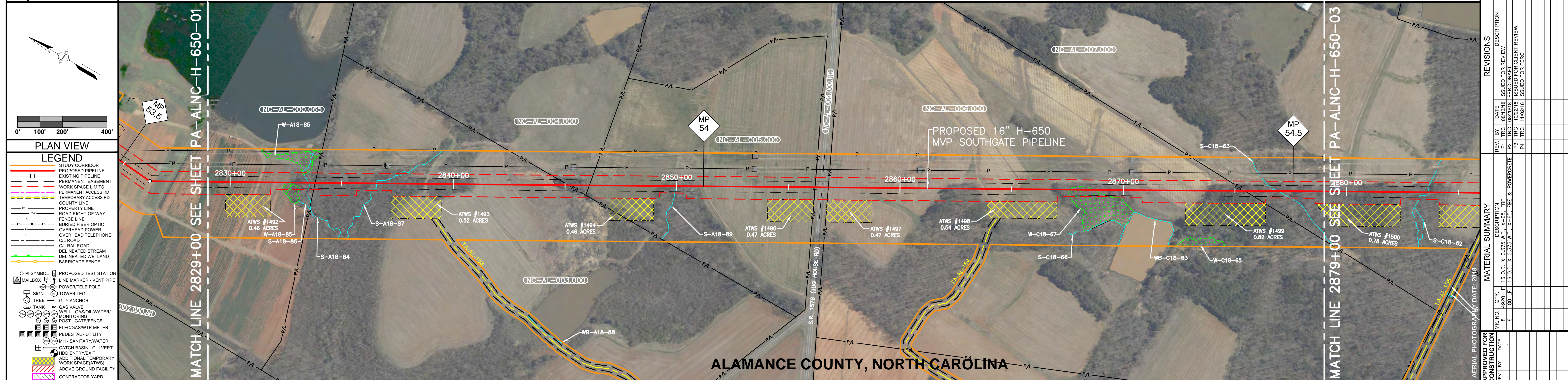
  

MATERIAL SUMMARY	DESCRIPTION	QTY.	UNIT
1	16" O.D. X 0.375" W.T. X-655 FER	47,355 LF	LF
2	16" O.D. X 0.375" W.T. X-655 FER & POWERGRTE	9 LF	LF

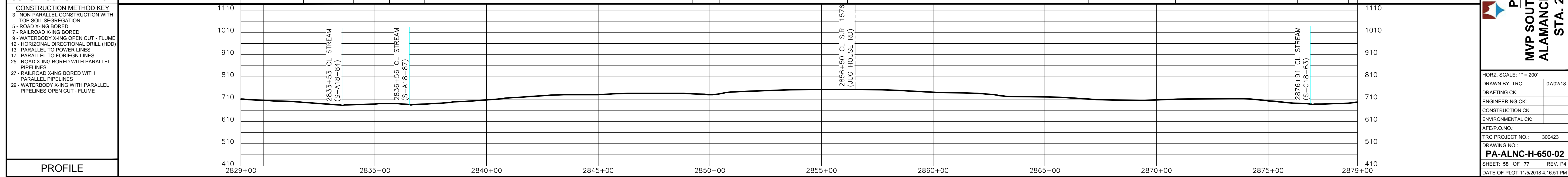
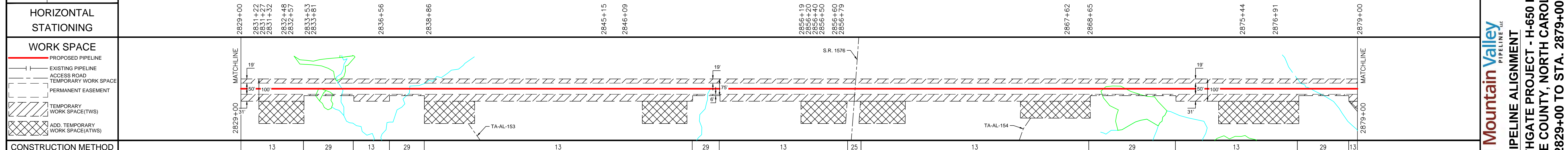
APPROVED FOR CONSTRUCTION	APPROVED FOR BIDDING		
REV.	DATE	REV.	DATE

RIGHT-OF-WAY & OWNERSHIP DATA		2829+00	2829+00	2833+81	2845+15	2846+09	2856+19	2856+79	2875+44	2879+00
		NC-AL-000.065	NC-AL-003.000	NC-AL-004.000	NC-AL-005.000	NC-AL-005.000.RC	NC-AL-006.000	NC-AL-007.000		
		481 LF	1134 LF	94 LF	1010 LF	60 LF	1865 LF	356 LF		
DESIGN	PIPE / COATING	8								
	SLOPE DISTANCE									
	CLASS LOCATION / HCA	2								
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	1								
	WETLAND / STREAM	W-A18-85 9 LF	S-A18-84 < 1 LF	S-A18-87 < 1 LF					W-C18-67 103 LF	S-C18-63 < 1 LF



DRAWING NO.	DESCRIPTION
2829+00	MATCH LINE
2831+22	EDGE OF ROAD
2831+27	CL OF ROAD (GRAVEL)
2831+32	EDGE OF ROAD
2832+48	BEGIN WETLAND (W-A18-85)
2832+57	END WETLAND (W-A18-85)
2833+53	CL STREAM (S-A18-84)
2833+61	PROPERTY LINE
2836+56	CL STREAM (S-A18-87)
2838+86	CL ROAD (DIRT)
2845+15	PROPERTY LINE
2846+09	PROPERTY LINE
2856+19	PROPERTY LINE
2856+20	OVERHEAD POWER LINE
2856+40	EDGE OF ROAD (JUG HOUSE RD)
2856+50	ASPHALT
2856+60	EDGE OF ROAD
2856+79	PROPERTY LINE
2867+62	BEGIN WETLAND (W-C18-67)
2868+65	END WETLAND (W-C18-67)
2875+44	PROPERTY LINE
2876+91	CL STREAM (S-C18-63)
2879+00	MATCH LINE

**ISSUED FOR FERC**



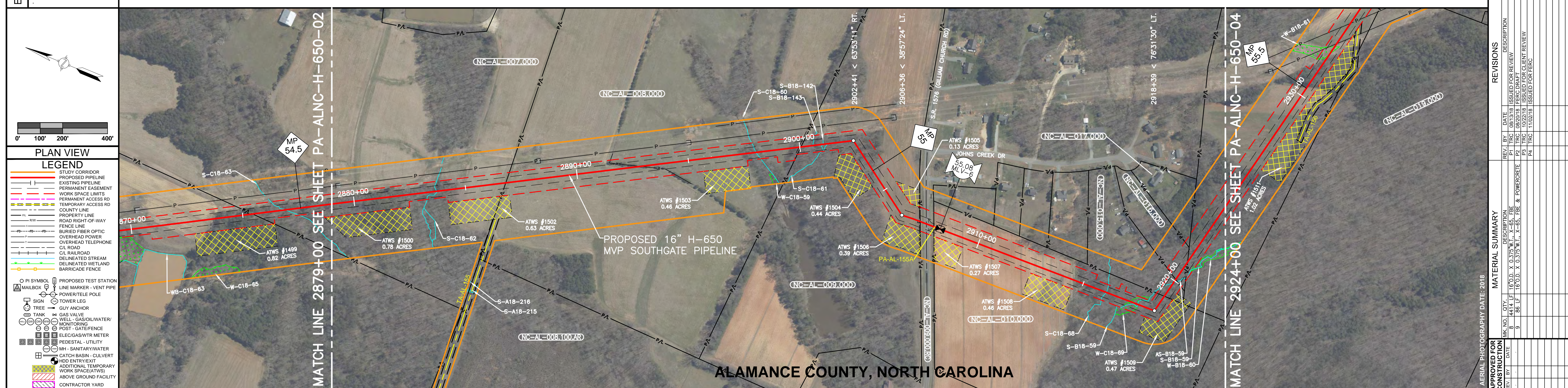
REV. NO.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAFTER CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

APPROVED FOR FERC	DATE

APPROVED FOR BIDDING	DATE

Mountain Valley PIPELINE LLC
PIPELINE ALIGNMENT
MVP SOUTHGATE PROJECT - H-650 LINE
ALAMANCE COUNTY, NORTH CAROLINA
STA. 2829+00 TO STA. 2879+00
HORIZ. SCALE: 1" = 200'
DRAWN BY: TRC 07/02/18
DRAFTING CK:
ENGINEERING CK:
CONSTRUCTION CK:
ENVIRONMENTAL CK:
AFE/P.O. NO.:
TRC PROJECT NO.: 300423
DRAWING NO.:
<b>PA-ALNC-H-650-02</b>
SHEET: 58 OF 77 REV P4
DATE OF PLOT: 11/15/2018 4:18:51 PM

RIGHT-OF-WAY & OWNERSHIP DATA		2879+00	2879+00	2886+81	2900+05	2907+23	2907+89	2919+18	2920+08	2921+01	2924+00	
		781 LF		1324 LF	718 LF	66 LF	1129 LF	90 LF	93 LF	299 LF		
DESIGN		PIPE / COATING										
		SLOPE DISTANCE										
		CLASS LOCATION / HCA										
ENVIRONMENTAL		CONSTRUCTION EXCLUSION										
		WETLAND / STREAM										
		S-C18-62 < 1 LF										
		S-C18-60 < 1 LF										
		S-B18-142 < 1 LF										
		S-C18-61 < 1 LF										
		S-C18-68 < 1 LF										
		W-C18-69 37 LF										
		S-B18-59 < 1 LF										
		S-B18-59 < 1 LF										



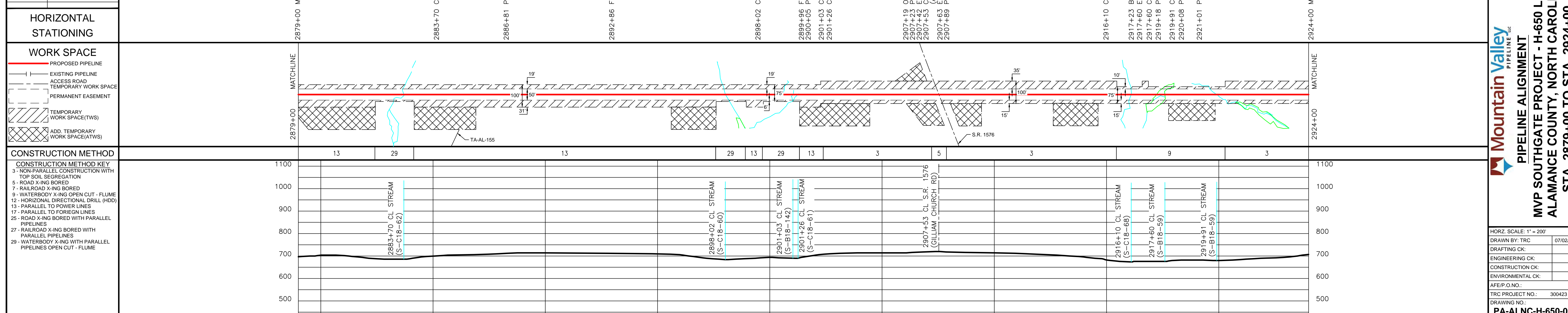
**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- CL ROAD
- CL RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER TELE POLE
- 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
- ROAD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
X-X-XXXX-1100-01	PROPOSED MAIN LINE VALVE PLOT PLAN



**PROFILE**

2879+00 2885+00 2890+00 2895+00 2900+00 2905+00 2910+00 2915+00 2920+00 2924+00

**TRC**  
Results you can rely on

**REVISIONS**

REV. NO.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAFTER CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

**MATERIAL SUMMARY**

REV. NO.	DATE	DESCRIPTION
B	11/14/18	16" O.D. X 0.375" W.T. X-65; FBE
9	08/20/18	4414 LF
9	08/20/18	88 LF 16" O.D. X 0.375" W.T. X-65; FBE & POWERCOBITE

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**ISSUED FOR FERC**

**Mountain Valley PIPELINE LLC**

**PIPELINE ALIGNMENT**

**MVP SOUTHGATE PROJECT - H-650 LINE**

**ALAMANCE COUNTY, NORTH CAROLINA**

**STA. 2879+00 TO STA. 2924+00**

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

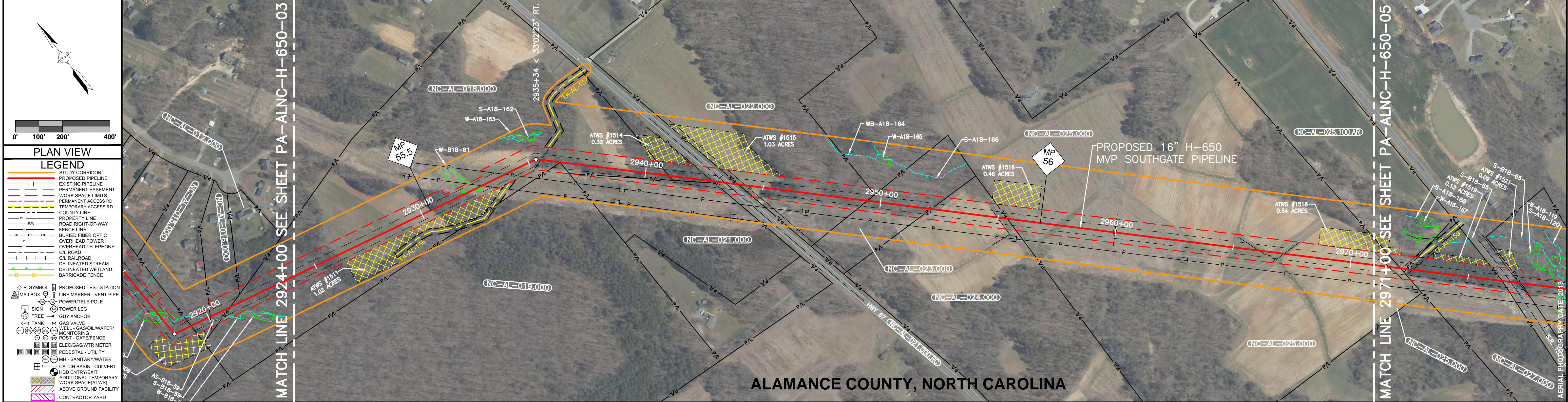
TRC PROJECT NO.: 300423

DRAWING NO.: PA-ALNC-H-650-03

SHEET: 59 OF 77 REV. P4

DATE OF PLOT: 11/15/2018 4:17:04 PM

RIGHT-OF-WAY & OWNERSHIP DATA		2924+00	2924+00	2941+00	2941+00	2949+44	2952+16	2955+40	2971+00
PIPE / COATING		8		9		8		8	
SLOPE DISTANCE									
CLASS LOCATION / HCA		2		1		2		1	
CONSTRUCTION EXCLUSION									
WETLAND / STREAM		W-B18-61 39 LF							

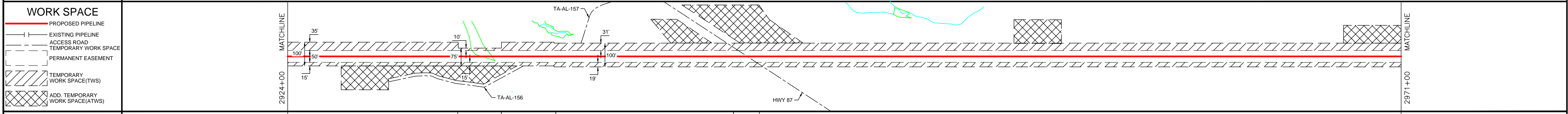


ALAMANCE COUNTY, NORTH CAROLINA

DRAWING NO.	DESCRIPTION

ISSUED FOR FERCC

HORIZONTAL STATIONING
2924+00 MATCH LINE
2932+24 BEGIN WETLAND (W-B18-61)
2932+63 END WETLAND (W-B18-61)
2932+80 OVERHEAD TRANSMISSION LINE
2933+89 OVERHEAD TRANSMISSION LINE
2935+50 EDGE OF ROAD
2935+56 CL ACCESS RD (GRASS)
2935+60 EDGE OF ROAD
2941+00 PROPERTY LINE
2942+84 OVERHEAD POWER LINE
2943+17 EDGE OF ROAD (ASPHALT)
2943+19 CL EDGE OF ROAD (ASPHALT)
2943+89 CL EDGE OF ROAD (ASPHALT)
2943+95 PROPERTY LINE
2944+25 OVERHEAD POWER LINE
2949+44 PROPERTY LINE
2952+16 PROPERTY LINE
2954+97 CL DITCH
2955+40 PROPERTY LINE
2959+97 BURIED FIBER OPTIC CABLE
2966+10 CL DITCH
2966+86 EDGE OF ROAD
2966+92 CL PRIVATE RD (GRAVEL)
2967+00 EDGE OF ROAD
2967+17 CL DITCH
2971+00 MATCH LINE



CONSTRUCTION METHOD	3	9	3	13	25	13	1120
CONSTRUCTION METHOD KEY							
3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION							
5 - ROAD X-ING BORED							
7 - RAILROAD X-ING BORED							
9 - WATERBODY X-ING OPEN CUT - FLUME							
12 - HORIZONTAL DIRECTIONAL DRILL (HDD)							
13 - PARALLEL TO POWER LINES							
17 - PARALLEL TO FOREIGN LINES							
25 - ROAD X-ING BORED WITH PARALLEL PIPELINES							
27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES							
29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME							

PROFILE	2924+00	2930+00	2935+00	2940+00	2945+00	2950+00	2955+00	2960+00	2965+00	2971+00



REV. NO.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAWING CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERCC

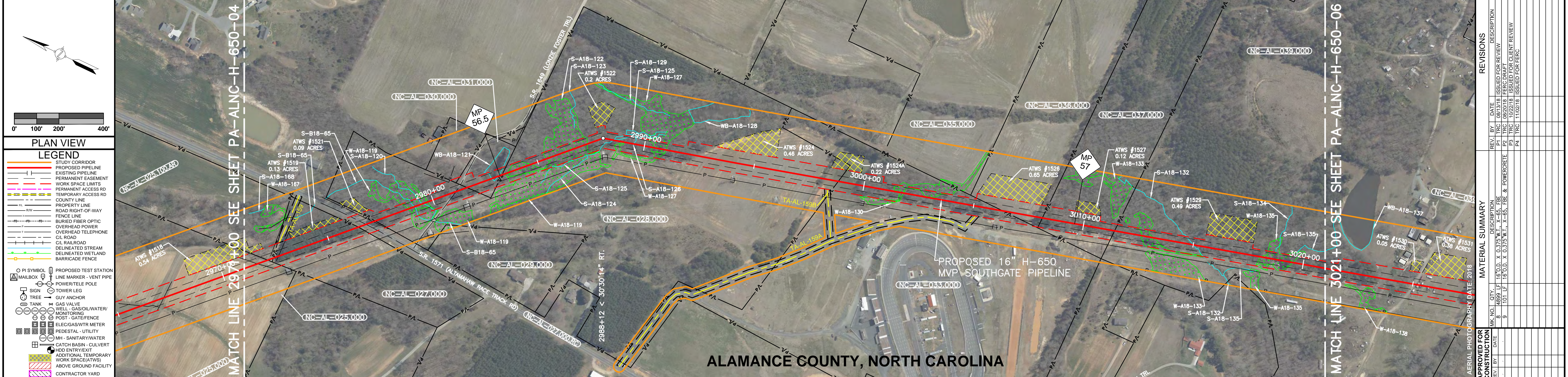
APPROVED FOR CONSTRUCTION	DATE

APPROVED FOR FERCC	DATE

**Mountain Valley Pipeline LLC**  
PIPELINE ALIGNMENT  
MVP SOUTHGATE PROJECT - H-650 LINE  
ALAMANCE COUNTY, NORTH CAROLINA  
STA. 2924+00 TO STA. 2971+00

DRAWN BY: TRC	07/02/18
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O. NO.:	
TRC PROJECT NO.:	300423
DRAWING NO.:	PA-ALNC-H-650-04
SHEET: 60 OF 77	REV P4
DATE OF PLOT: 11/15/2018 4:17:14 PM	

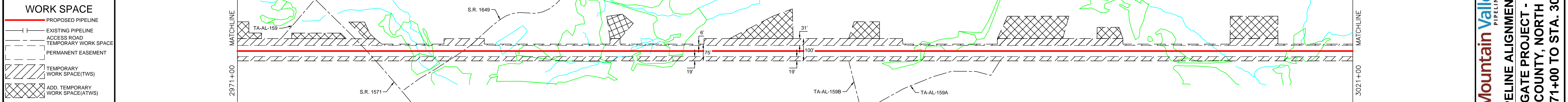
RIGHT-OF-WAY & OWNERSHIP DATA		2971+00	2971+00	2972+12	2972+12	2972+39	2972+39	2976+44	2976+44	2977+25	2977+25	2981+63	2981+63	2983+30	2983+30	2998+84	2998+84	3006+33	3006+33	3008+13	3008+13	3011+42	3011+42	3021+00	3021+00	
		112 LF	27 LF	405 LF	81 LF	438 LF	2981+63	167 LF	2983+30	1554 LF	749 LF	3006+33	180 LF	3008+13	329 LF	3011+42	958 LF	3021+00								
DESIGN																										
PIPE / COATING																										
SLOPE DISTANCE																										
CLASS LOCATION / HCA																										
ENVIRONMENTAL																										
CONSTRUCTION EXCLUSION																										
WETLAND / STREAM		W-A18-119 95 LF, S-B18-65 < 1 LF, S-A18-120 < 1 LF, WB-A18-121 31 LF, W-A18-119 105 LF, W-A18-119 192 LF, S-A18-125 < 1 LF, S-A18-126 < 1 LF, W-A18-127 61 LF, W-A18-130 17 LF, W-A18-133 56 LF, S-A18-132 < 1 LF, W-A18-135 146 LF																								



DRAWING NO.	DESCRIPTION
2971+00	MATCH LINE
2971+63	CL DITCH
2971+78	EDGE OF ROAD
2971+89	CL ACCESS RD (GRAVEL)
2972+03	EDGE OF ROAD
2972+12	EDGE OF ROAD
2972+39	CL ACCESS RD (GRAVEL)
2972+44	EDGE OF ROAD
2972+63	CL DITCH
2976+44	PROPERTY LINE
2976+67	EDGE OF ROAD
2976+81	CL S.R. 1571 (ALTAHAWH RACE TRACK)
2976+85	RD ASPHALT
2977+10	OVERHEAD POWER LINE
2977+25	PROPERTY LINE
2978+81	BEGIN WETLAND (W-A18-119)
2979+12	CL STREAM (S-B18-65)
2979+53	CL STREAM (S-A18-120)
2979+76	END WETLAND (W-A18-119)
2981+02	EDGE OF ROAD
2981+10	GRAVEL, 1649 (LONZIE FOSTER TRAIL)
2981+18	EDGE OF ROAD
2981+63	PROPERTY LINE
2982+81	BEGIN STREAM (WB-A18-121)
2983+12	END STREAM (WB-A18-121)
2983+30	PROPERTY LINE
2983+63	BEGIN WETLAND (W-A18-119)
2984+68	END WETLAND (W-A18-119)
2985+43	BEGIN WETLAND (W-A18-119)
2987+35	END WETLAND (W-A18-119)
2988+59	CL STREAM (S-A18-125)
2989+51	CL STREAM (S-A18-126)
2990+37	BEGIN WETLAND (W-A18-127)
2990+98	END WETLAND (W-A18-127)
2998+55	EDGE OF ROAD (GRASS)
2998+63	EDGE OF ROAD
2998+84	PROPERTY LINE
3001+64	BEGIN WETLAND (W-A18-130)
3001+81	END WETLAND (W-A18-130)
3005+09	EDGE OF ROAD (GRASS)
3005+11	CL ACCESS RD (GRASS)
3005+22	EDGE OF ROAD
3006+33	PROPERTY LINE
3008+13	PROPERTY LINE
3011+42	PROPERTY LINE
3012+65	BEGIN WETLAND (W-A18-133)
3013+21	END WETLAND (W-A18-133)
3015+01	CL STREAM (S-A18-132)
3018+07	BEGIN WETLAND (W-A18-135)
3019+53	END WETLAND (W-A18-135)
3021+00	MATCH LINE

**ISSUED FOR FERC**

DRAWING NO.	DESCRIPTION
2971+00	MATCH LINE
2971+63	CL DITCH
2971+78	EDGE OF ROAD
2971+89	CL ACCESS RD (GRAVEL)
2972+03	EDGE OF ROAD
2972+12	EDGE OF ROAD
2972+39	CL ACCESS RD (GRAVEL)
2972+44	EDGE OF ROAD
2972+63	CL DITCH
2976+44	PROPERTY LINE
2976+67	EDGE OF ROAD
2976+81	CL S.R. 1571 (ALTAHAWH RACE TRACK)
2976+85	RD ASPHALT
2977+10	OVERHEAD POWER LINE
2977+25	PROPERTY LINE
2978+81	BEGIN WETLAND (W-A18-119)
2979+12	CL STREAM (S-B18-65)
2979+53	CL STREAM (S-A18-120)
2979+76	END WETLAND (W-A18-119)
2981+02	EDGE OF ROAD
2981+10	GRAVEL, 1649 (LONZIE FOSTER TRAIL)
2981+18	EDGE OF ROAD
2981+63	PROPERTY LINE
2982+81	BEGIN STREAM (WB-A18-121)
2983+12	END STREAM (WB-A18-121)
2983+30	PROPERTY LINE
2983+63	BEGIN WETLAND (W-A18-119)
2984+68	END WETLAND (W-A18-119)
2985+43	BEGIN WETLAND (W-A18-119)
2987+35	END WETLAND (W-A18-119)
2988+59	CL STREAM (S-A18-125)
2989+51	CL STREAM (S-A18-126)
2990+37	BEGIN WETLAND (W-A18-127)
2990+98	END WETLAND (W-A18-127)
2998+55	EDGE OF ROAD (GRASS)
2998+63	EDGE OF ROAD
2998+84	PROPERTY LINE
3001+64	BEGIN WETLAND (W-A18-130)
3001+81	END WETLAND (W-A18-130)
3005+09	EDGE OF ROAD (GRASS)
3005+11	CL ACCESS RD (GRASS)
3005+22	EDGE OF ROAD
3006+33	PROPERTY LINE
3008+13	PROPERTY LINE
3011+42	PROPERTY LINE
3012+65	BEGIN WETLAND (W-A18-133)
3013+21	END WETLAND (W-A18-133)
3015+01	CL STREAM (S-A18-132)
3018+07	BEGIN WETLAND (W-A18-135)
3019+53	END WETLAND (W-A18-135)
3021+00	MATCH LINE



DRAWING NO.	DESCRIPTION
2971+00	MATCH LINE
2971+63	CL DITCH
2971+78	EDGE OF ROAD
2971+89	CL ACCESS RD (GRAVEL)
2972+03	EDGE OF ROAD
2972+12	EDGE OF ROAD
2972+39	CL ACCESS RD (GRAVEL)
2972+44	EDGE OF ROAD
2972+63	CL DITCH
2976+44	PROPERTY LINE
2976+67	EDGE OF ROAD
2976+81	CL S.R. 1571 (ALTAHAWH RACE TRACK)
2976+85	RD ASPHALT
2977+10	OVERHEAD POWER LINE
2977+25	PROPERTY LINE
2978+81	BEGIN WETLAND (W-A18-119)
2979+12	CL STREAM (S-B18-65)
2979+53	CL STREAM (S-A18-120)
2979+76	END WETLAND (W-A18-119)
2981+02	EDGE OF ROAD
2981+10	GRAVEL, 1649 (LONZIE FOSTER TRAIL)
2981+18	EDGE OF ROAD
2981+63	PROPERTY LINE
2982+81	BEGIN STREAM (WB-A18-121)
2983+12	END STREAM (WB-A18-121)
2983+30	PROPERTY LINE
2983+63	BEGIN WETLAND (W-A18-119)
2984+68	END WETLAND (W-A18-119)
2985+43	BEGIN WETLAND (W-A18-119)
2987+35	END WETLAND (W-A18-119)
2988+59	CL STREAM (S-A18-125)
2989+51	CL STREAM (S-A18-126)
2990+37	BEGIN WETLAND (W-A18-127)
2990+98	END WETLAND (W-A18-127)
2998+55	EDGE OF ROAD (GRASS)
2998+63	EDGE OF ROAD
2998+84	PROPERTY LINE
3001+64	BEGIN WETLAND (W-A18-130)
3001+81	END WETLAND (W-A18-130)
3005+09	EDGE OF ROAD (GRASS)
3005+11	CL ACCESS RD (GRASS)
3005+22	EDGE OF ROAD
3006+33	PROPERTY LINE
3008+13	PROPERTY LINE
3011+42	PROPERTY LINE
3012+65	BEGIN WETLAND (W-A18-133)
3013+21	END WETLAND (W-A18-133)
3015+01	CL STREAM (S-A18-132)
3018+07	BEGIN WETLAND (W-A18-135)
3019+53	END WETLAND (W-A18-135)
3021+00	MATCH LINE

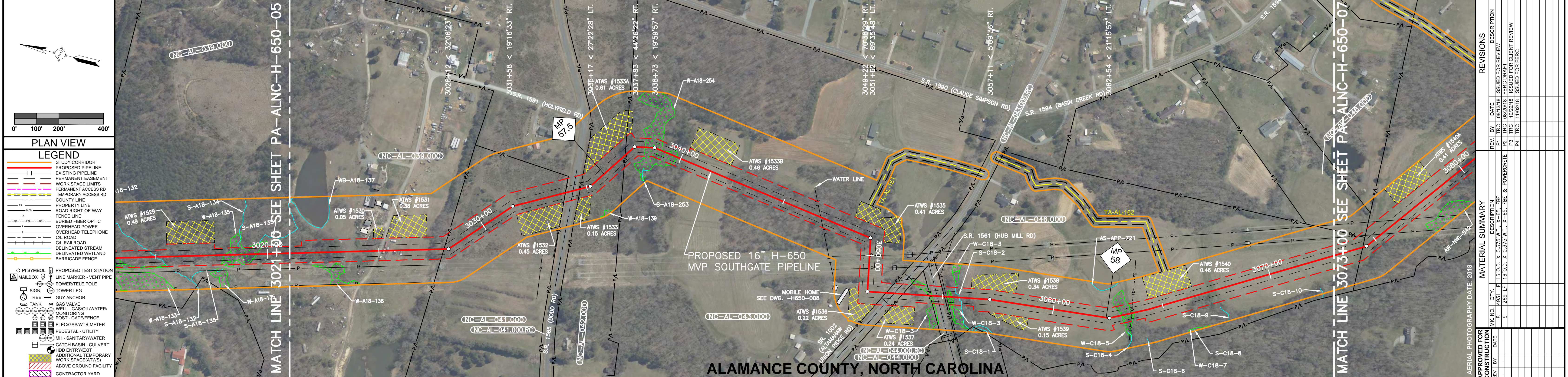


REV. NO.	DATE	DESCRIPTION
P1	08/03/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAWS CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

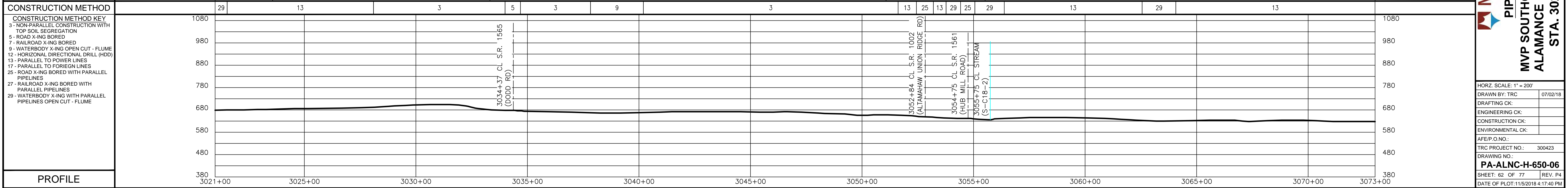
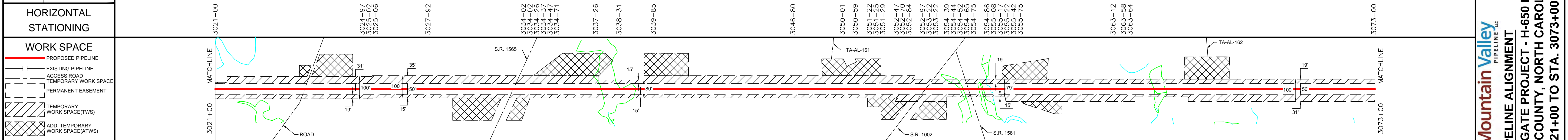
**Mountain Valley PIPELINE LLC**  
**PIPELINE ALIGNMENT**  
**MVP SOUTHGATE PROJECT - H-650 LINE**  
**ALAMANCE COUNTY, NORTH CAROLINA**  
**STA. 2971+00 TO STA. 3021+00**

HORIZ. SCALE: 1" = 200'  
 DRAWN BY: TRC 07/02/18  
 DRAFTING CK:  
 ENGINEERING CK:  
 CONSTRUCTION CK:  
 ENVIRONMENTAL CK:  
 AFE/P.O. NO.:  
 TRC PROJECT NO.: 300423  
 DRAWING NO.:  
**PA-ALNC-H-650-05**  
 SHEET: 61 OF 77 REV. P4  
 DATE OF PLOT: 11/5/2018 4:17:31 PM

RIGHT-OF-WAY & OWNERSHIP DATA		3021+00	3021+00	NC-AL-039.000	692 LF	3027+92	NC-AL-041.000	610 LF	3034+02	NC-AL-041.000.RC	69 LF	3034+71	NC-AL-042.000	255 LF	3037+26	NC-AL-043.000	1521 LF	3052+47	NC-AL-043.000.RC	75 LF	3053+22	NC-AL-044.000	122 LF	3054+44	NC-AL-044.000.RC	64 LF	3055+08	NC-AL-046.000	1792 LF	3073+00								
DESIGN	PIPE / COATING	8																																				
	SLOPE DISTANCE	2																																				
CLASS LOCATION / HCA		2																																				
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																																					
	WETLAND / STREAM													W-A18-254		154 LF														W-C18-3		W-C18-3		S-C18-2		W-C18-5		52 LF



REFERENCE DRAWINGS		DRAWING NO.	DESCRIPTION
		RSS-H650-008	RESIDENTIAL SITE SPECIFIC



CONSTRUCTION METHOD		29	13	3	5	3	9	3	13	13	29	25	29	25	29	13	29	13	3073+00
CONSTRUCTION METHOD KEY		3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION 5 - ROAD X-ING BORED 7 - RAILROAD X-ING BORED 9 - WATERBODY X-ING OPEN CUT - FLUME 12 - HORIZONTAL DIRECTIONAL DRILL (HDD) 17 - PARALLEL TO POWER LINES 17 - PARALLEL TO FOREIGN LINES 25 - ROAD X-ING BORED WITH PARALLEL PIPELINES 27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES 29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME																	

PROFILE		3021+00	3025+00	3030+00	3035+00	3040+00	3045+00	3050+00	3055+00	3060+00	3065+00	3070+00	3073+00
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REVISIONS		REV. BY	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW	
P2	TRC	08/20/18	FERC DRAWS CLIENT REVIEW	
P3	TRC	11/02/18	ISSUED FOR FERC	

MATERIAL SUMMARY		QTY.	DESCRIPTION
8	4931 LF	16" O.D. X 0.375" W.T. X-65 FIBER	
9	269 LF	16" O.D. X 0.375" W.T. X-65 FIBER & POWER CONDUIT	

APPROVED FOR CONSTRUCTION		REV. BY	DATE

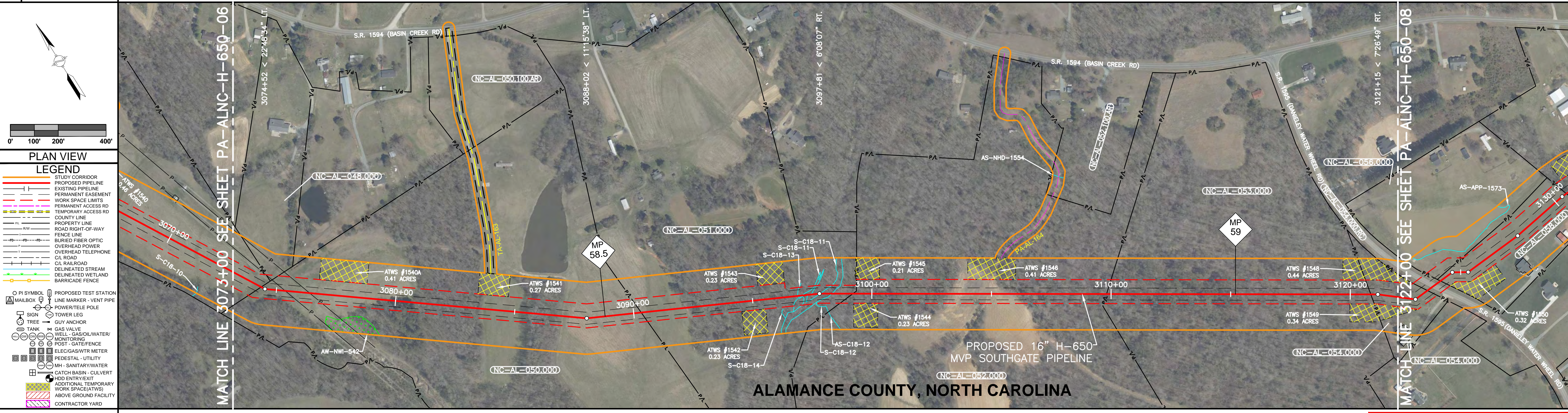
APPROVED FOR BIDDING		REV. BY	DATE

**ISSUED FOR FERC**

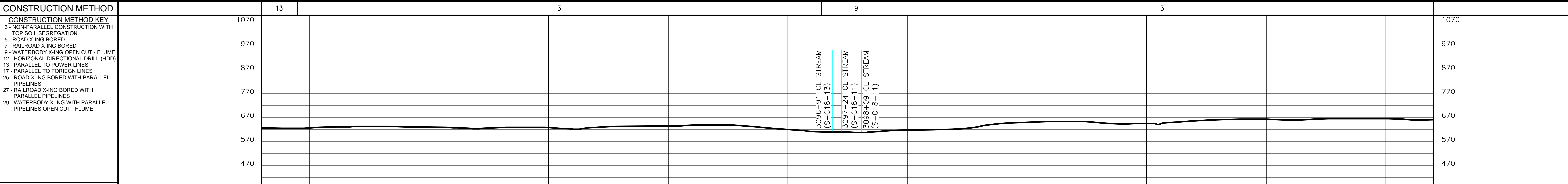
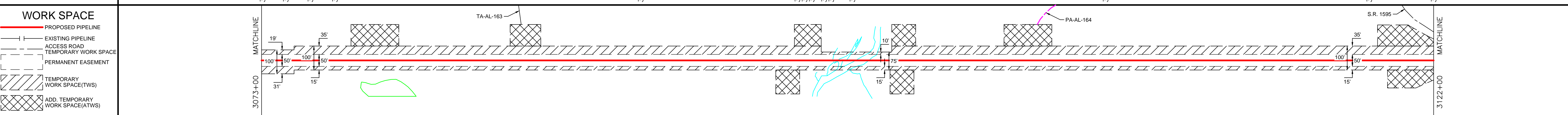
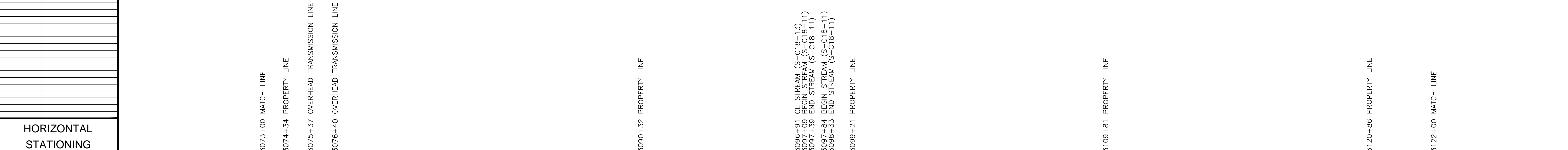
**Mountain Valley PIPELINE LLC**  
**PIPELINE ALIGNMENT**  
**MVP SOUTHGATE PROJECT - H-650 LINE**  
**ALAMANCE COUNTY, NORTH CAROLINA**  
**STA. 3021+00 TO STA. 3073+00**

HORIZ. SCALE: 1" = 200'	
DRAWN BY: TRC	07/02/18
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O. NO.:	
TRC PROJECT NO.:	300423
DRAWING NO.:	
<b>PA-ALNC-H-650-06</b>	
SHEET: 62 OF 77	REV. P4
DATE OF PLOT: 11/15/2018 4:17:40 PM	

RIGHT-OF-WAY & OWNERSHIP DATA	NC-AL-046.000	NC-AL-050.000	NC-AL-051.000	NC-AL-052.000	NC-AL-053.000	NC-AL-054.000
	134 LF	1598 LF	889 LF	1060 LF	1105 LF	114 LF
DESIGN	PIPE / COATING					
	SLOPE DISTANCE			8		
ENVIRONMENTAL	CONSTRUCTION EXCLUSION					
	WETLAND / STREAM			S-C18-13 < 1 LF	S-C18-11 30 LF	S-C18-11 49 LF



REFERENCE DRAWINGS	DESCRIPTION



PROFILE	3073+00		3075+00		3080+00		3085+00		3090+00		3095+00		3100+00		3105+00		3110+00		3115+00		3120+00		3122+00	
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**Mountain Valley**  
PIPELINE LLC

**PIPELINE ALIGNMENT**  
MVP SOUTHGATE PROJECT - H-650 LINE  
ALAMANCE COUNTY, NORTH CAROLINA  
STA. 3073+00 TO STA. 3122+00

REVISIONS		APPROVED FOR CONSTRUCTION	
REV. NO.	DATE	REV. NO.	DATE

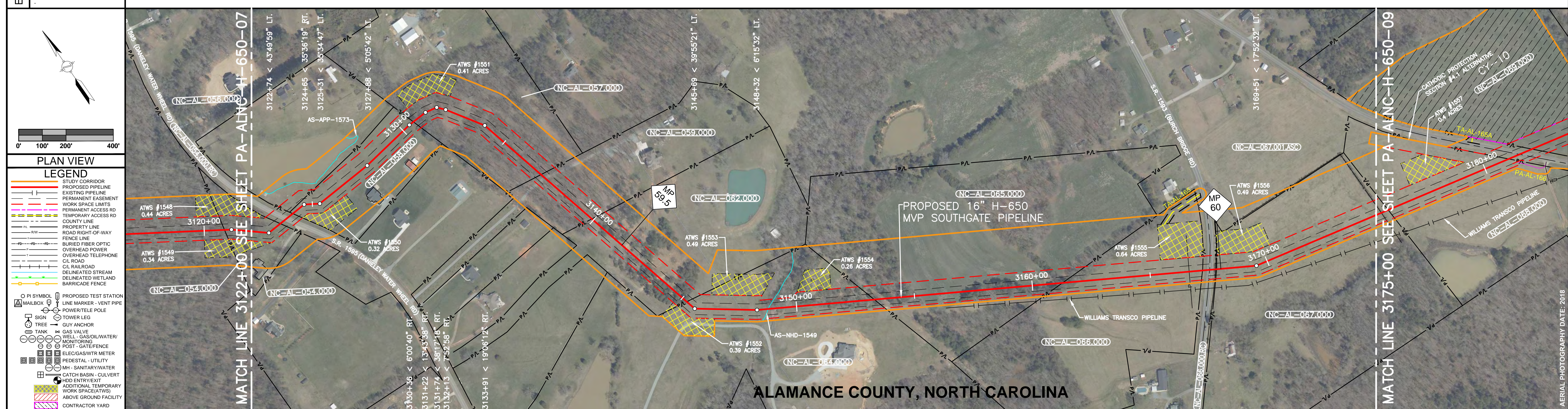
MATERIAL SUMMARY	
QTY.	DESCRIPTION

APPROVED FOR BIDDING: (Signature) DATE: / /

APPROVED FOR CONSTRUCTION: (Signature) DATE: / /

DATE OF PLOT: 11/5/2018 4:17:56 PM

RIGHT-OF-WAY & OWNERSHIP DATA	DESIGN	ENVIRONMENTAL																																																																																				
<table border="1"> <thead> <tr> <th>STATION</th> <th>NC-AL-054.000</th> <th>NC-AL-054.000.RC</th> <th>NC-AL-058.000</th> <th>NC-AL-057.000</th> <th>NC-AL-059.000</th> <th>NC-AL-062.000</th> <th>NC-AL-064.000</th> <th>NC-AL-065.000</th> <th>NC-AL-066.000</th> <th>NC-AL-066.000.RC</th> <th>NC-AL-067.000</th> </tr> </thead> <tbody> <tr> <td>3122+00</td> <td>136 LF</td> <td>67 LF</td> <td>654 LF</td> <td>650 LF</td> <td>285 LF</td> <td>532 LF</td> <td>806 LF</td> <td>798 LF</td> <td>594 LF</td> <td>59 LF</td> <td>719 LF</td> </tr> </tbody> </table>	STATION	NC-AL-054.000	NC-AL-054.000.RC	NC-AL-058.000	NC-AL-057.000	NC-AL-059.000	NC-AL-062.000	NC-AL-064.000	NC-AL-065.000	NC-AL-066.000	NC-AL-066.000.RC	NC-AL-067.000	3122+00	136 LF	67 LF	654 LF	650 LF	285 LF	532 LF	806 LF	798 LF	594 LF	59 LF	719 LF	<table border="1"> <tbody> <tr> <td>PIPE / COATING</td> <td>8</td> <td>9</td> <td colspan="3"></td> <td>8</td> <td colspan="2"></td> <td>9</td> <td>8</td> <td></td> </tr> <tr> <td>SLOPE DISTANCE</td> <td colspan="11"></td> </tr> <tr> <td>CLASS LOCATION / HCA</td> <td colspan="11">2</td> </tr> </tbody> </table>	PIPE / COATING	8	9				8			9	8		SLOPE DISTANCE												CLASS LOCATION / HCA	2											<table border="1"> <tbody> <tr> <td>CONSTRUCTION EXCLUSION</td> <td colspan="11"></td> </tr> <tr> <td>WETLAND / STREAM</td> <td colspan="11">AS-NHD-1549 &lt; 1 LF</td> </tr> </tbody> </table>	CONSTRUCTION EXCLUSION												WETLAND / STREAM	AS-NHD-1549 < 1 LF										
STATION	NC-AL-054.000	NC-AL-054.000.RC	NC-AL-058.000	NC-AL-057.000	NC-AL-059.000	NC-AL-062.000	NC-AL-064.000	NC-AL-065.000	NC-AL-066.000	NC-AL-066.000.RC	NC-AL-067.000																																																																											
3122+00	136 LF	67 LF	654 LF	650 LF	285 LF	532 LF	806 LF	798 LF	594 LF	59 LF	719 LF																																																																											
PIPE / COATING	8	9				8			9	8																																																																												
SLOPE DISTANCE																																																																																						
CLASS LOCATION / HCA	2																																																																																					
CONSTRUCTION EXCLUSION																																																																																						
WETLAND / STREAM	AS-NHD-1549 < 1 LF																																																																																					

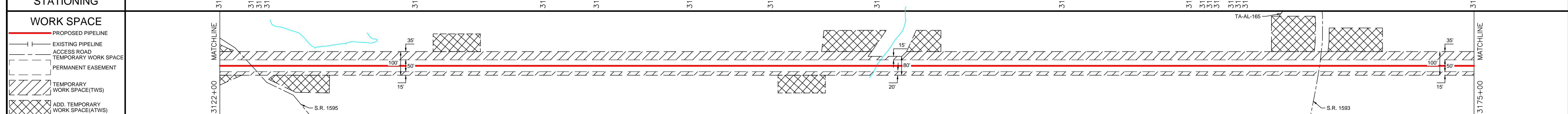


**ALAMANCE COUNTY, NORTH CAROLINA**

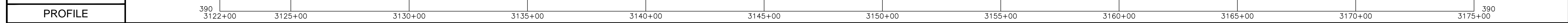
DRAWING NO.	DESCRIPTION
3122+00	MATCH LINE
3123+36	PROPERTY LINE
3123+70	CL S.R. 1595 (DANIELLEY WATER WHEEL RD)
3124+03	PROPERTY LINE
3130+57	PROPERTY LINE
3137+07	PROPERTY LINE
3139+92	PROPERTY LINE
3145+24	PROPERTY LINE
3148+80	CL STREAM (AS-NHD-1549)
3153+30	PROPERTY LINE
3161+28	PROPERTY LINE
3166+65	OVERHEAD POWER LINE
3167+22	PROPERTY LINE
3167+41	EDGE OF ROAD
3167+53	CL S.R. 1593 (BURCH BRIDGE RD)
3167+65	(ASPHALT) ROAD
3167+75	EDGE OF ROAD
3167+81	PROPERTY LINE
3175+00	MATCH LINE

**ISSUED FOR FERC**

HORIZONTAL STATIONING
3122+00 MATCH LINE
3123+36 PROPERTY LINE
3123+70 CL S.R. 1595 (DANIELLEY WATER WHEEL RD)
3124+03 PROPERTY LINE
3130+57 PROPERTY LINE
3137+07 PROPERTY LINE
3139+92 PROPERTY LINE
3145+24 PROPERTY LINE
3148+80 CL STREAM (AS-NHD-1549)
3153+30 PROPERTY LINE
3161+28 PROPERTY LINE
3166+65 OVERHEAD POWER LINE
3167+22 PROPERTY LINE
3167+41 EDGE OF ROAD
3167+53 CL S.R. 1593 (BURCH BRIDGE RD)
3167+65 (ASPHALT) ROAD
3167+75 EDGE OF ROAD
3167+81 PROPERTY LINE
3175+00 MATCH LINE



CONSTRUCTION METHOD															
<b>CONSTRUCTION METHOD KEY</b> 3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION 5 - ROAD X-ING BORED 7 - RAILROAD X-ING BORED 9 - WATERBODY X-ING OPEN CUT - FLUME 12 - HORIZONTAL DIRECTIONAL DRILL (HDD) 13 - PARALLEL TO POWER LINES 17 - PARALLEL TO FOREIGN LINES 25 - ROAD X-ING BORED WITH PARALLEL PIPELINES 27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES 29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME															
	3	5							3	17	29		17	5	3



PROFILE
3122+00 3123+70 CL S.R. 1595 (DANIELLEY WATER WHEEL RD) 3130+57 3135+00 3140+00 3145+00 3150+00 3155+00 3160+00 3165+00 3170+00 3175+00

**PIPELINE ALIGNMENT**  
**MVP SOUTHGATE PROJECT - H-650 LINE**  
**ALAMANCE COUNTY, NORTH CAROLINA**  
**STA. 3122+00 TO STA. 3175+00**

HORZ. SCALE: 1" = 200'  
 DRAWN BY: TRC 07/02/18  
 DRAFTING CK:  
 ENGINEERING CK:  
 CONSTRUCTION CK:  
 ENVIRONMENTAL CK:  
 AFE/P.O. NO.:  
 TRC PROJECT NO.: 300423  
 DRAWING NO.:  
**PA-ALNC-H-650-08**  
 SHEET: 64 OF 77 REV: P4  
 DATE OF PLOT: 11/15/2018 4:18:05 PM

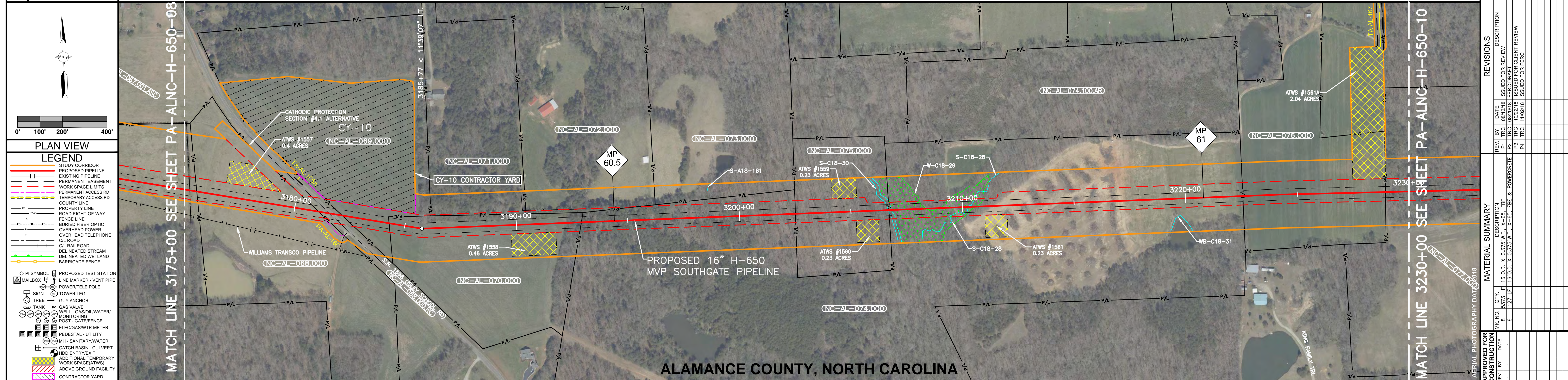
**TRC**  
 Results you can rely on

**REVISIONS**  

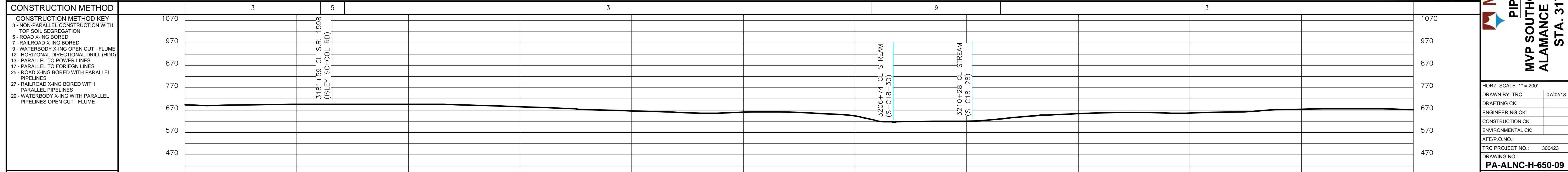
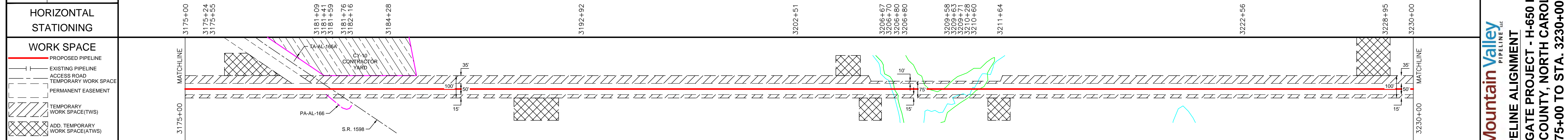
REV. NO.	DATE	DESCRIPTION
P1	08/01/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAWING CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC



RIGHT-OF-WAY & OWNERSHIP DATA		3175+00	NC-AL-067.000	3175+55	NC-AL-068.000	3181+09	NC-AL-068.000.RC	3182+16	NC-AL-069.000	3184+28	NC-AL-070.000	3192+92	NC-AL-074.000	3202+51	NC-AL-075.000	3206+70	NC-AL-074.000	3222+56	NC-AL-076.000	3228+95	NC-AL-077.000	3230+00	
			55 LF		554 LF		107 LF		212 LF		864 LF		959 LF		419 LF		1586 LF		639 LF		105 LF		
DESIGN	PIPE / COATING	8																					
	SLOPE DISTANCE																						
	CLASS LOCATION / HCA	1										2											
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																						
	WETLAND / STREAM																S-C18-30	W-C18-29	S-C18-28				
																	13 LF	380 LF	< 1 LF				



REFERENCE DRAWINGS		ISSUED FOR FERC																				
DRAWING NO.	DESCRIPTION																					
		<p>3175+00 MATCH LINE</p> <p>3175+24 FENCE &amp; BARBED WIRE</p> <p>3175+55 PROPERTY LINE</p> <p>3181+09 PROPERTY LINE</p> <p>3181+53 EDGE OF ROAD (SLEY SCHOOL RD)</p> <p>3181+59 (ASPHALT)</p> <p>3181+76 EDGE OF ROAD</p> <p>3182+16 PROPERTY LINE</p> <p>3184+28 PROPERTY LINE</p> <p>3192+92 PROPERTY LINE</p> <p>3202+51 PROPERTY LINE</p> <p>3206+67 BEGIN STREAM (S-C18-30)</p> <p>3206+70 PROPERTY LINE</p> <p>3206+80 END STREAM (S-C18-30)</p> <p>3206+80 BEGIN WETLAND (W-C18-29)</p> <p>3209+58 EDGE OF ROAD</p> <p>3209+63 CL ROAD (DIRT)</p> <p>3209+71 EDGE OF ROAD</p> <p>3210+28 CL STREAM (S-C18-28)</p> <p>3210+60 END WETLAND (W-C18-28)</p> <p>3211+64 CL ROAD (DIRT)</p> <p>3222+56 PROPERTY LINE</p> <p>3228+95 PROPERTY LINE</p> <p>3230+00 MATCH LINE</p>																				



PROFILE		3175+00	3180+00	3185+00	3190+00	3195+00	3200+00	3205+00	3210+00	3215+00	3220+00	3225+00	3230+00
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**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- CL ROAD
- CL RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- POWER/TELE POLE
- TOWER LEG
- TREE
- GUY ANCHOR
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ROAD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



**REVISIONS**

REV. NO.	DATE	DESCRIPTION
P1	08/31/18	ISSUED FOR REVIEW
P2	09/20/18	FERC DRAFC CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

**MATERIAL SUMMARY**

QTY.	DESCRIPTION
16,000 LF	X 0.375 W.T. X-65 FER
127 LF	16.000 X 0.375 W.T. X-65 FER & POWERGRTE

**APPROVED FOR CONSTRUCTION**

REV. BY	DATE

**Mountain Valley PIPELINE LLC**

**PIPELINE ALIGNMENT**

**MVP SOUTHGATE PROJECT - H-650 LINE**

**ALAMANCE COUNTY, NORTH CAROLINA**

**STA. 3175+00 TO STA. 3230+00**

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/P.O. NO.:

TRC PROJECT NO.: 300423

DRAWING NO.:

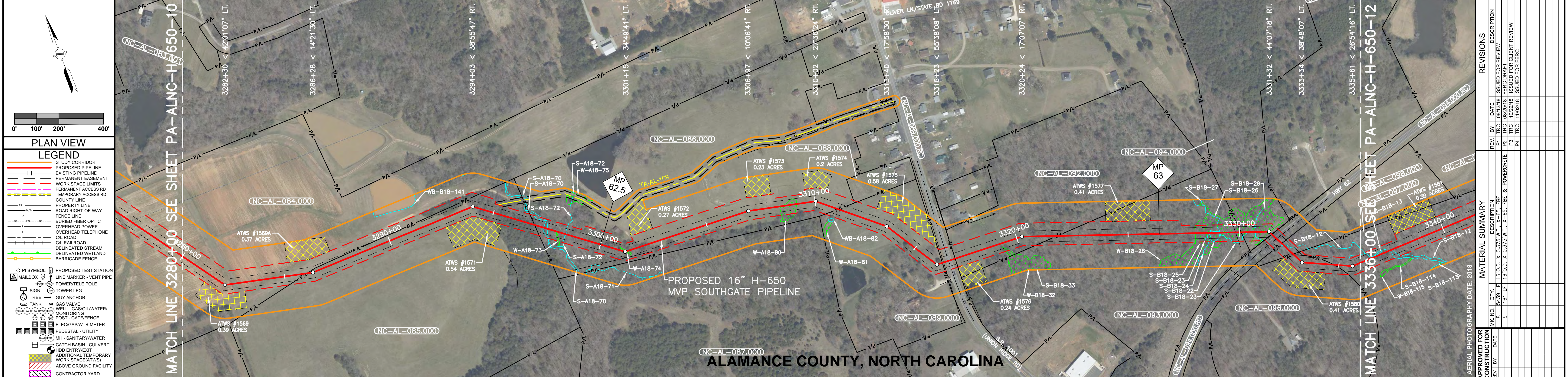
**PA-ALNC-H-650-09**

SHEET: 65 OF 77 REV P4

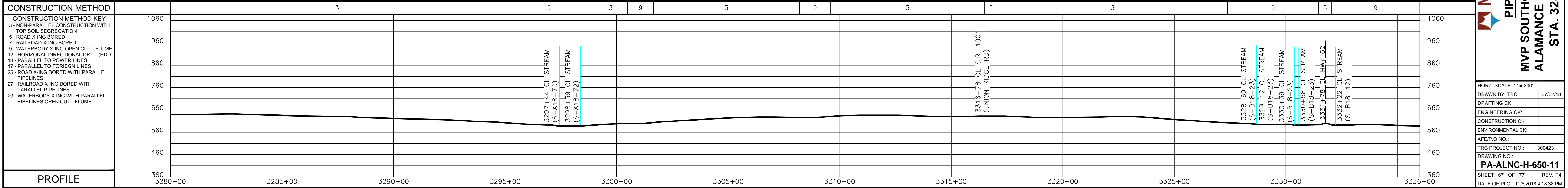
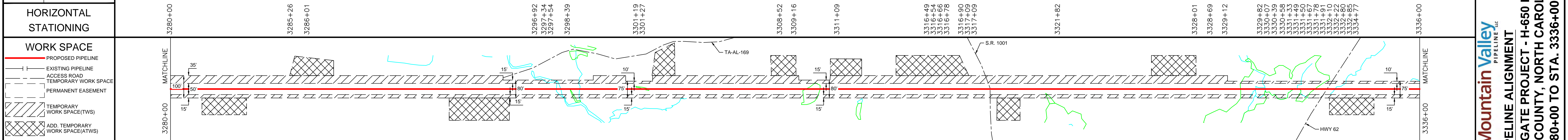
DATE OF PLOT: 11/15/2018 4:18:14 PM



RIGHT-OF-WAY & OWNERSHIP DATA		3280+00	3280+00	3286+01	3286+01	1091 LF	3296+92	3296+92	3311+09	3311+09	3316+49	3316+49	3317+09	3317+09	3321+82	3321+82	3330+07	3330+07	3331+49	3331+49	3332+10	3332+10	3332+80	3332+80	3332+85	3332+85	3334+77	3334+77	3336+00	3336+00
DESIGN		PIPE / COATING		8								9		8						9		8								
		SLOPE DISTANCE																												
		CLASS LOCATION / HCA		1		2		1		2																				
ENVIRONMENTAL		CONSTRUCTION EXCLUSION																												
		WETLAND / STREAM		S-A18-70 20 LF		S-A18-72 < 1 LF		W-A18-74 8 LF		W-A18-80 64 LF										W-B18-28 332 LF		S-B18-23 < 1 LF		S-B18-23 < 1 LF		S-B18-12 < 1 LF				



DRAWING NO.	DESCRIPTION
85030100000000	STONY CREEK HDD



REV.	BY	DATE	DESCRIPTION
P1	TRC	08/31/18	ISSUED FOR REVIEW
P2	TRC	09/20/18	FERC DRAFTER CLIENT REVIEW
P3	TRC	11/02/18	ISSUED FOR FERC

APPROVED FOR CONSTRUCTION	DATE

APPROVED FOR BIDDING	DATE

**Mountain Valley PIPELINE LLC**

**PIPELINE ALIGNMENT**

**MVP SOUTHGATE PROJECT - H-650 LINE**

**ALAMANCE COUNTY, NORTH CAROLINA**

**STA. 3280+00 TO STA. 3336+00**

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

A/E/P/O. NO.:

TRC PROJECT NO.: 300423

DRAWING NO.:

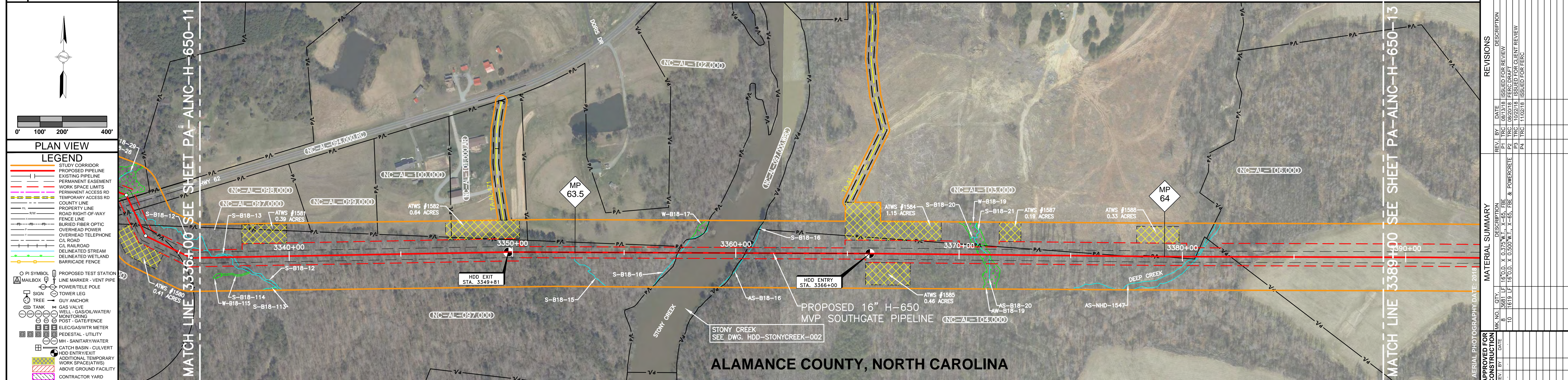
**PA-ALNC-H-650-11**

SHEET: 67 OF 77 REV. P4

DATE OF PLOT: 11/15/2018 4:18:38 PM

**ISSUED FOR FERC**

RIGHT-OF-WAY & OWNERSHIP DATA		3336+00	NC-AL-097.000	3357+40	NC-AL-097.000.WBC	3360+42	NC-AL-104.000	3377+64	NC-AL-103.000	3378+24	NC-AL-104.000	3380+60	NC-AL-103.000	3382+16	NC-AL-104.000	3389+00		
			2140 LF		302 LF	3360+42	1722 LF	3377+64	60 LF	3378+24	75 LF	3380+60	161 LF	3382+16	156 LF	684 LF		
DESIGN	PIPE / COATING	8																
	SLOPE DISTANCE																	
	CLASS LOCATION / HCA	2		1		2						1						
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																	
	WETLAND / STREAM	S-B18-12		21 LF				S-B18-16		304 LF		AW-B18-19		AS-B18-20		AS-NHD-1547		9 LF

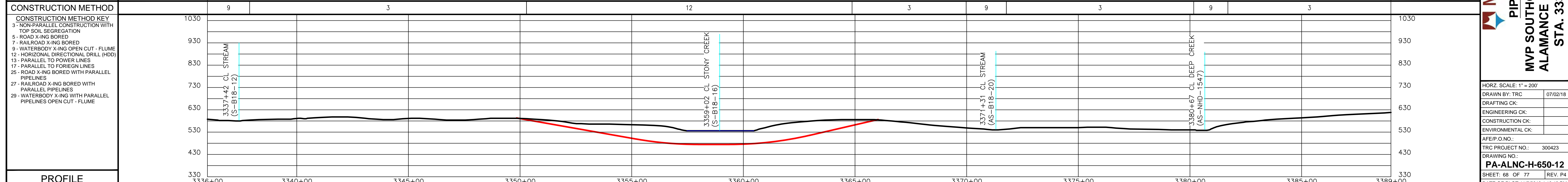
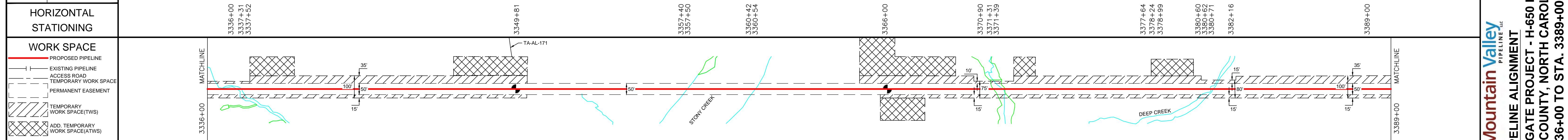


**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- CL ROAD
- RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- MAILBOX
- LINE MARKER - VENT PIPE
- RESERVE 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
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- HDD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

REFERENCE DRAWINGS		DRAWING NO.	DESCRIPTION
		AS-STONYCREEK-002	H-650 PIPELINE STONY CREEK HDD



CONSTRUCTION METHOD		CONSTRUCTION METHOD KEY	3	3	12	3	9	3	9	3
		3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION								
		5 - ROAD X-ING BORED								
		7 - RAILROAD X-ING BORED								
		9 - WATERBODY X-ING OPEN CUT - FLUME								
		12 - HORIZONTAL DIRECTIONAL DRILL (HDD)								
		13 - PARALLEL TO POWER LINES								
		17 - PARALLEL TO FOREIGN LINES								
		25 - ROAD X-ING BORED WITH PARALLEL PIPELINES								
		27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES								
		29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME								

PROFILE		3336+00	3340+00	3345+00	3350+00	3355+00	3360+00	3365+00	3370+00	3375+00	3380+00	3385+00	3389+00
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REVISIONS		REV. NO.	DATE	DESCRIPTION
		P1	08/13/18	ISSUED FOR REVIEW
		P2	08/20/18	FERC DRAFTER CLIENT REVIEW
		P3	11/02/18	ISSUED FOR FERC

APPROVED FOR CONSTRUCTION		DATE	DATE

APPROVED FOR BIDDING		DATE	DATE

**Mountain Valley**  
PIPELINE LLC

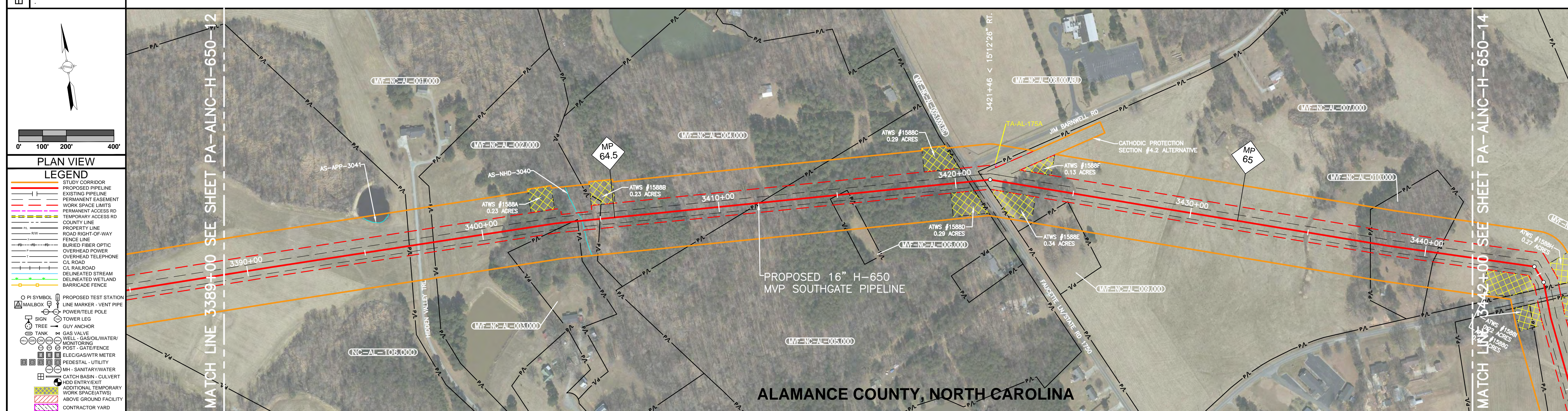
**PIPELINE ALIGNMENT**  
MVP SOUTHGATE PROJECT - H-650 LINE  
ALAMANCE COUNTY, NORTH CAROLINA  
STA. 3336+00 TO STA. 3389+00

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18  
DRAFTING CK:  
ENGINEERING CK:  
CONSTRUCTION CK:  
ENVIRONMENTAL CK:  
A/E/P.O. NO.:  
TRC PROJECT NO.: 300423  
DRAWING NO.:  
**PA-ALNC-H-650-12**  
SHEET: 68 OF 77 REV P4  
DATE OF PLOT: 11/5/2018 4:18:48 PM

**ISSUED FOR FERC**

RIGHT-OF-WAY & OWNERSHIP DATA		3389+00	(NC-AL-106.000)	3396+88	(MVF-NC-AL-001.000)	(MVF-NC-AL-002.000)	(MVF-NC-AL-003.000)	(MVF-NC-AL-002.000)	(MVF-NC-AL-004.000)	(MVF-NC-AL-005.000)	(MVF-NC-AL-006.000)	(MVF-NC-AL-005.000)	(MVF-NC-AL-005.000.RC)	(MVF-NC-AL-007.000)	(MVF-NC-AL-010.000)	(MVF-NC-AL-007.000)	3442+00											
DESIGN		3389+00	788 LF	3396+88	103 LF	3397+91	593 LF	3403+84	20 LF	3404+04	94 LF	3404+98	674 LF	3411+72	332 LF	3415+04	46 LF	3415+50	505 LF	3420+55	65 LF	3421+20	1646 LF	3437+66	285 LF	3440+51	149 LF	3442+00
ENVIRONMENTAL		CONSTRUCTION EXCLUSION			AS-NHD-3040										WETLAND / STREAM		< 1 LF											



REVISIONS		REV. BY	DATE	DESCRIPTION
P1	TRC	08/31/18	ISSUED FOR REVIEW	
P2	TRC	09/20/18	FERC DRAFTER CLIENT REVIEW	
P3	TRC	11/02/18	ISSUED FOR FERC	

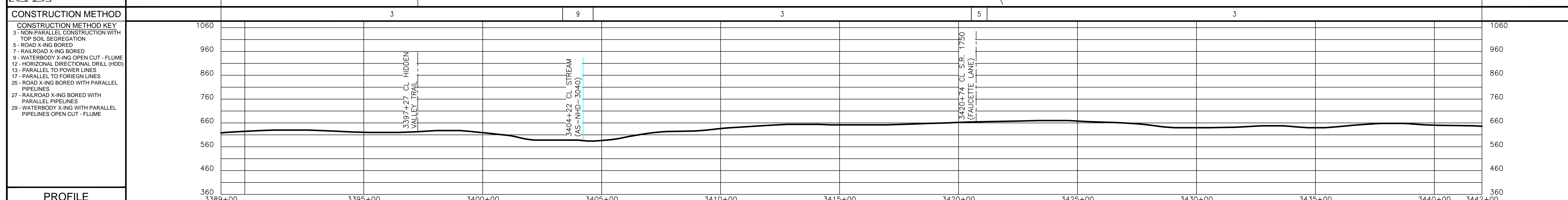
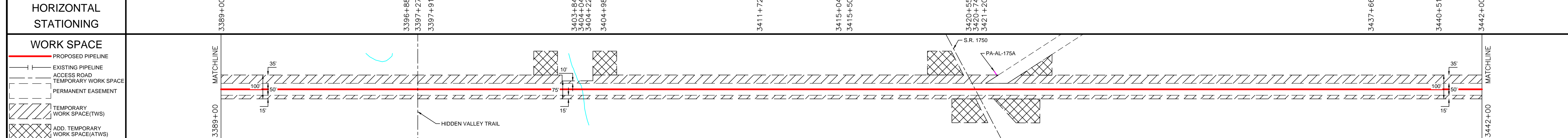
  

MATERIAL SUMMARY		ITEM NO.	QTY.	DESCRIPTION
1	APPROVED FOR CONSTRUCTION	15.0' D. X 0.375' W.T. X-65. FBE	521.4 LF	
2	APPROVED FOR CONSTRUCTION	15.0' D. X 0.375' W.T. X-65. FBE & POWERGRIOTE	88 LF	

REFERENCE DRAWINGS		DRAWING NO.	DESCRIPTION

ISSUED FOR FERC

HORIZONTAL STATIONING		STATIONING	DESCRIPTION
3389+00		3389+00 MATCH LINE	
3396+88	PROPERTY LINE		
3397+27	CL HIDDEN VALLEY TRAIL		
3397+91	PROPERTY LINE		
3403+84	PROPERTY LINE		
3404+04	PROPERTY LINE		
3404+22	CL STREAM (AS-NHD-3040)		
3404+98	PROPERTY LINE		
3411+72	PROPERTY LINE		
3415+04	PROPERTY LINE		
3415+50	PROPERTY LINE		
3420+55	PROPERTY LINE		
3420+74	CL S.R. 1750 (FAUCETTE LANE)		
3421+20	PROPERTY LINE		
3437+66	PROPERTY LINE		
3440+51	PROPERTY LINE		
3442+00	MATCH LINE		

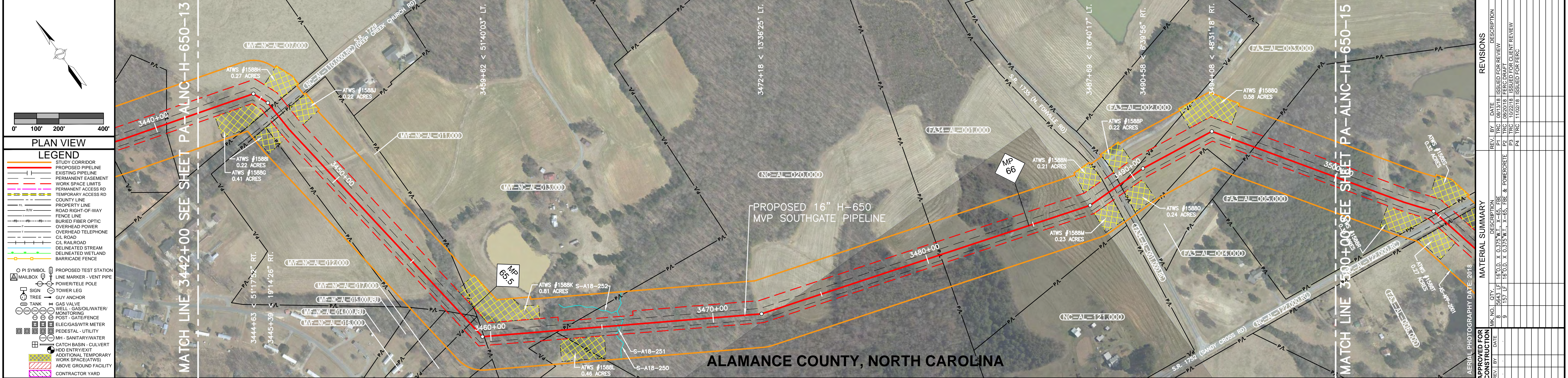


<table border="1"> <thead> <tr> <th colspan="2">CONSTRUCTION METHOD</th> </tr> <tr> <th>CONSTRUCTION METHOD KEY</th> <th> </th> </tr> </thead> <tbody> <tr><td>3</td><td>NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION</td></tr> <tr><td>5</td><td>ROAD X-ING BORED</td></tr> <tr><td>7</td><td>RAILROAD X-ING BORED</td></tr> <tr><td>9</td><td>WATERBODY X-ING OPEN CUT - FLUME</td></tr> <tr><td>12</td><td>HORIZONTAL DIRECTIONAL DRILL (HDD)</td></tr> <tr><td>13</td><td>PARALLEL TO POWER LINES</td></tr> <tr><td>17</td><td>PARALLEL TO FOREIGN LINES</td></tr> <tr><td>25</td><td>ROAD X-ING BORED WITH PARALLEL PIPELINES</td></tr> <tr><td>27</td><td>RAILROAD X-ING BORED WITH PARALLEL PIPELINES</td></tr> <tr><td>29</td><td>WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME</td></tr> </tbody> </table>	CONSTRUCTION METHOD		CONSTRUCTION METHOD KEY		3	NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION	5	ROAD X-ING BORED	7	RAILROAD X-ING BORED	9	WATERBODY X-ING OPEN CUT - FLUME	12	HORIZONTAL DIRECTIONAL DRILL (HDD)	13	PARALLEL TO POWER LINES	17	PARALLEL TO FOREIGN LINES	25	ROAD X-ING BORED WITH PARALLEL PIPELINES	27	RAILROAD X-ING BORED WITH PARALLEL PIPELINES	29	WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME	<table border="1"> <thead> <tr> <th colspan="2">PROFILE</th> </tr> <tr> <th>STATIONING</th> <th>ELEVATION (FEET)</th> </tr> </thead> <tbody> <tr><td>3389+00</td><td>580</td></tr> <tr><td>3395+00</td><td>580</td></tr> <tr><td>3400+00</td><td>580</td></tr> <tr><td>3405+00</td><td>580</td></tr> <tr><td>3410+00</td><td>580</td></tr> <tr><td>3415+00</td><td>580</td></tr> <tr><td>3420+00</td><td>580</td></tr> <tr><td>3425+00</td><td>580</td></tr> <tr><td>3430+00</td><td>580</td></tr> <tr><td>3435+00</td><td>580</td></tr> <tr><td>3440+00</td><td>580</td></tr> <tr><td>3442+00</td><td>580</td></tr> </tbody> </table>	PROFILE		STATIONING	ELEVATION (FEET)	3389+00	580	3395+00	580	3400+00	580	3405+00	580	3410+00	580	3415+00	580	3420+00	580	3425+00	580	3430+00	580	3435+00	580	3440+00	580	3442+00	580
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3440+00	580																																																				
3442+00	580																																																				

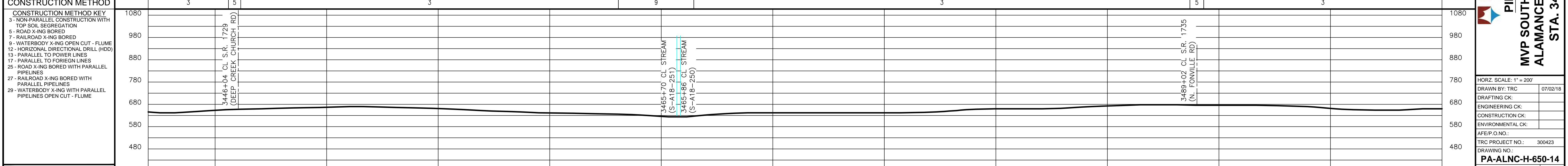
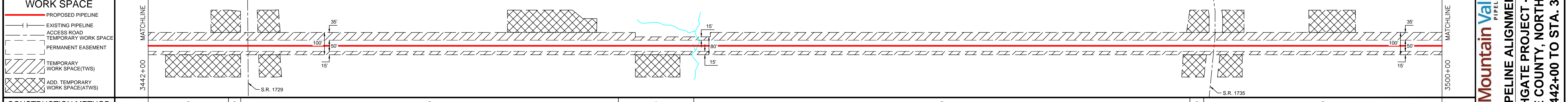
**Mountain Valley PIPELINE LLC**  
**PIPELINE ALIGNMENT**  
**MVP SOUTHGATE PROJECT - H-650 LINE**  
**ALAMANCE COUNTY, NORTH CAROLINA**  
**STA. 3389+00 TO STA. 3442+00**

HORZ. SCALE: 1" = 200'  
 DRAWN BY: TRC 07/02/18  
 DRAFTING CK:  
 ENGINEERING CK:  
 CONSTRUCTION CK:  
 ENVIRONMENTAL CK:  
 AFE/P.O. NO.:  
 TRC PROJECT NO.: 300423  
 DRAWING NO.:  
**PA-ALNC-H-650-13**  
 SHEET: 69 OF 77 REV P4  
 DATE OF PLOT: 11/20/2018 4:19:03 PM

RIGHT-OF-WAY & OWNERSHIP DATA		MVF-NC-AL-007.000	NC-AL-110.000.RC	MVF-NC-AL-011.000	MVF-NC-AL-016.000	MVF-NC-AL-017.000	MVF-NC-AL-013.000	NC-AL-020.000	FA34-AL-001.000	FA34-AL-001.000.RC	FA34-AL-002.000	FA34-AL-003.000	FA34-AL-005.000
		363 LF	53 LF	1206 LF	60 LF	88 LF	343 LF	1748 LF	811 LF	60 LF	29 LF	651 LF	388 LF
DESIGN	PIPE / COATING	8	9				8			9		8	
	SLOPE DISTANCE												
ENVIRONMENTAL	CONSTRUCTION EXCLUSION	2											
	WETLAND / STREAM	S-A18-251 < 1 LF S-A18-250 < 1 LF											



DRAWING NO.	DESCRIPTION



REVISIONS	REV. BY	DATE	DESCRIPTION

MATERIAL SUMMARY	DESCRIPTION	QTY.	UNIT

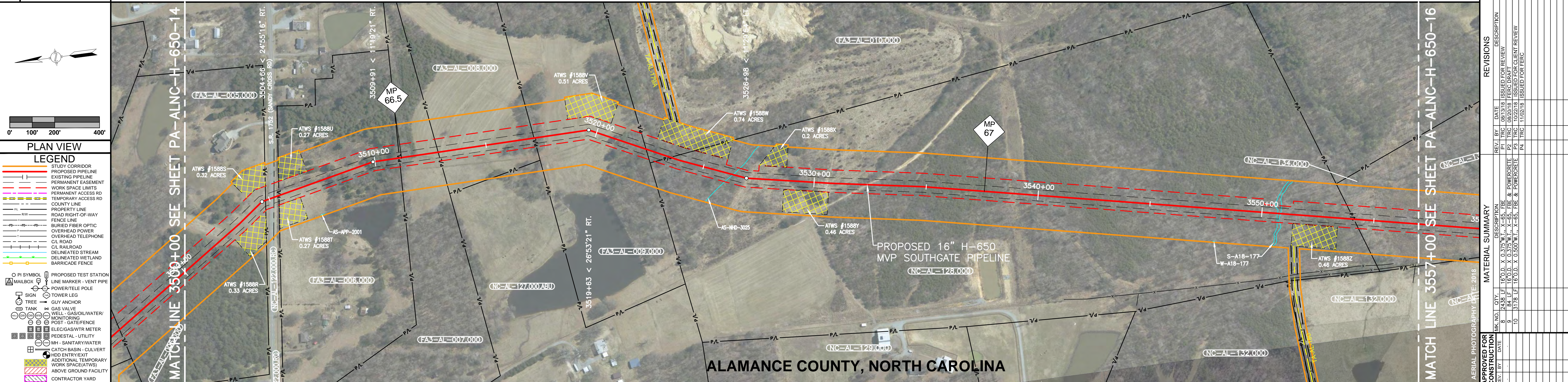
APPROVED FOR CONSTRUCTION	REV. BY	DATE

APPROVED FOR BIDDING	REV. BY	DATE

ISSUED FOR FERC

**Mountain Valley PIPELINE LLC**  
 PIPELINE ALIGNMENT  
 MVP SOUTHGATE PROJECT - H-650 LINE  
 ALAMANCE COUNTY, NORTH CAROLINA  
 STA. 3442+00 TO STA. 3500+00  
 HORIZ. SCALE: 1" = 200'  
 DRAWN BY: TRC 07/02/18  
 DRAFTING CK:  
 ENGINEERING CK:  
 CONSTRUCTION CK:  
 ENVIRONMENTAL CK:  
 AFE/PIP.O. NO.:  
 TRC PROJECT NO.: 300423  
 DRAWING NO.:  
**PA-ALNC-H-650-14**  
 SHEET: 70 OF 77 REV P4  
 DATE OF PLOT: 11/5/2018 4:19:25 PM

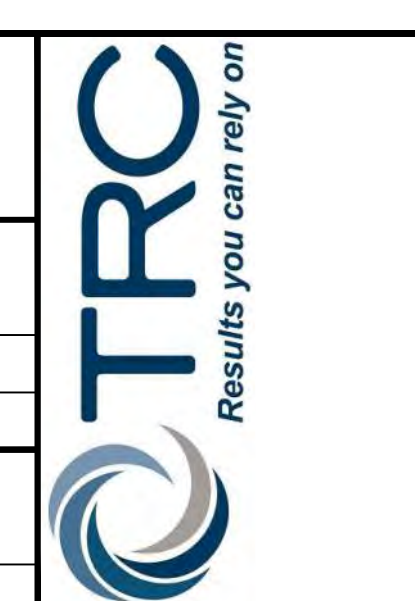
RIGHT-OF-WAY & OWNERSHIP DATA		FA34-AL-005.000	NC-AL-122.000.RC	FA34-AL-006.000	FA34-AL-007.000	FA34-AL-008.000	FA34-AL-009.000	FA34-AL-010.000	NC-AL-128.000	NC-AL-134.000
		483 LF	63 LF	564 LF	175 LF	432 LF	515 LF	115 LF	3063 LF	290 LF
DESIGN		PIPE / COATING	8	9	8	10	8	10	8	
		SLOPE DISTANCE								
		CLASS LOCATION / HCA		2			1			
ENVIRONMENTAL		CONSTRUCTION EXCLUSION								
		WETLAND / STREAM				AS-NHD-3025			AS-A18-177	14 LF
						< 1 LF				



### PLAN VIEW

#### LEGEND

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD TELEPHONE
- CL ROAD
- CL 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 - GASOLINE/WATER/
- MONITORING
- POST - GATEFENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ROAD ENTRANCE
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD



### REVISIONS

REV. NO.	DATE	DESCRIPTION
P1	08/31/18	ISSUED FOR REVIEW
P2	09/20/18	FERC DRAFTER CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

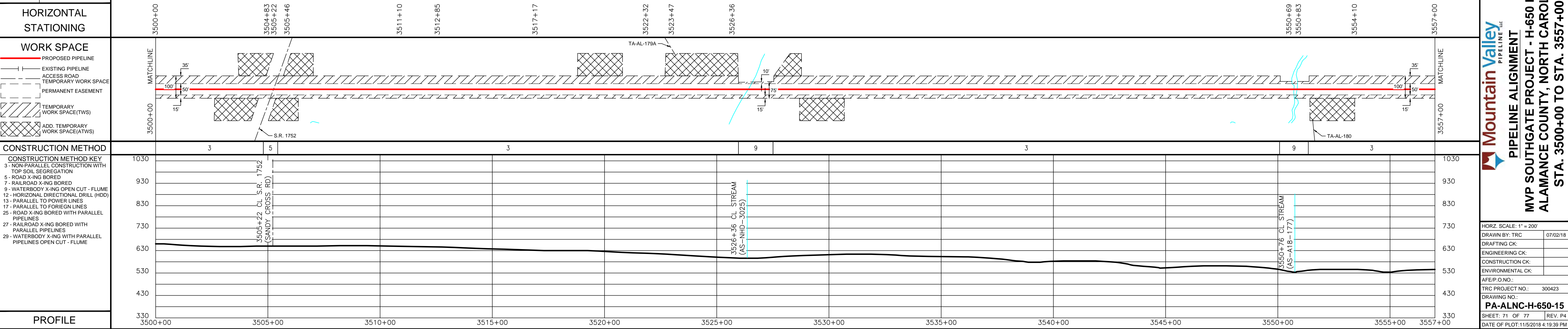
### MATERIAL SUMMARY

ITEM NO.	QTY.	DESCRIPTION
1	10,000	X 0.375" M.T. X-65. FIBER
2	24,38 LF	16" O.D. X 0.375" M.T. X-65. FIBER & POWER/ELECTR.
3	84 LF	16" O.D. X 0.375" M.T. X-65. FIBER & POWER/ELECTR.
4	10	3" DIA. X 1.5" X 1.5" X-65. FIBER & POWER/ELECTR.

**ISSUED FOR FERC**

### REFERENCE DRAWINGS

DRAWING NO.	DESCRIPTION



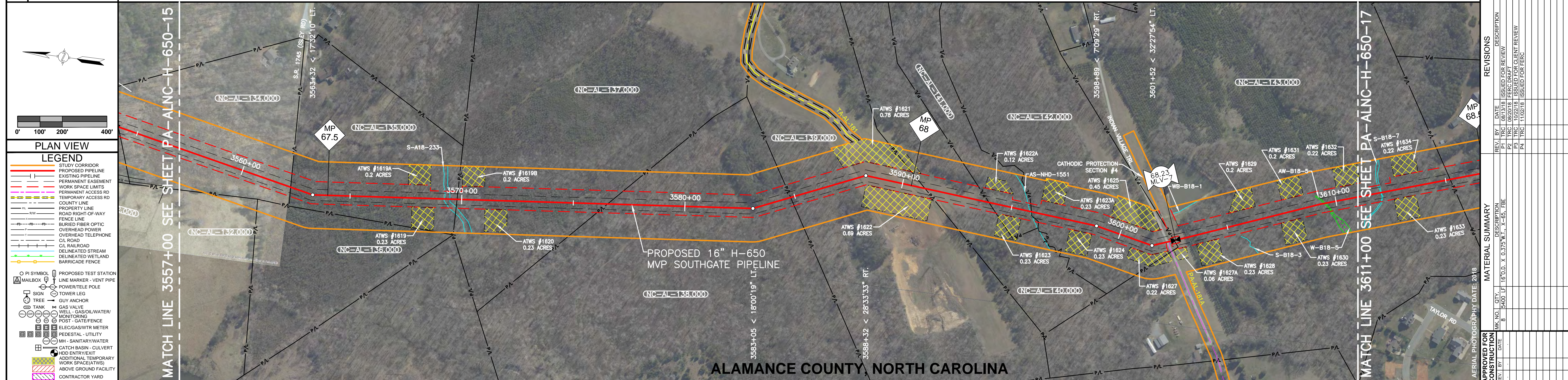
### APPROVED FOR CONSTRUCTION

REV. NO.	DATE	DESCRIPTION

**Mountain Valley PIPELINE LLC**  
**PIPELINE ALIGNMENT**  
**MVP SOUTHGATE PROJECT - H-650 LINE**  
**ALAMANCE COUNTY, NORTH CAROLINA**  
**STA. 3500+00 TO STA. 3557+00**

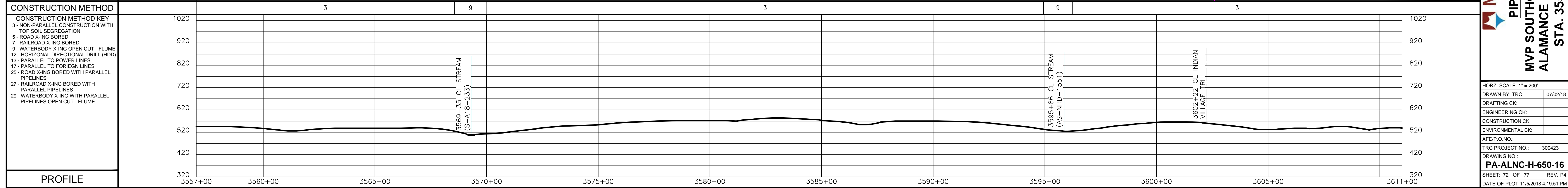
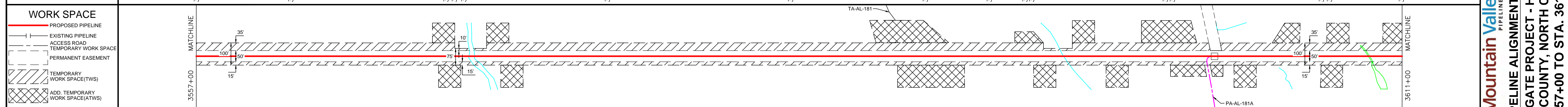
HORIZ. SCALE: 1" = 200'  
DRAWN BY: TRC | 07/02/18  
DRAFTING CK:  
ENGINEERING CK:  
CONSTRUCTION CK:  
ENVIRONMENTAL CK:  
AFE/PO NO.:  
TRC PROJECT NO.: 300423  
DRAWING NO.:  
**PA-ALNC-H-650-15**  
SHEET: 71 OF 77 | REV P4  
DATE OF PLOT: 11/5/2018 4:19:39 PM

RIGHT-OF-WAY & OWNERSHIP DATA		3557+00	NC-AL-134.000	3562+28	NC-AL-135.000	3569+79	NC-AL-137.000	3576+54	NC-AL-138.000	3584+81	NC-AL-139.000	3591+03	NC-AL-140.000	3593+96	NC-AL-141.000	3595+91	NC-AL-142.000	3602+54	NC-AL-143.000	3611+00	
		528 LF		751 LF		675 LF		827 LF		622 LF		293 LF		195 LF		663 LF		846 LF			
DESIGN	PIPE / COATING	8																			
ENVIRONMENTAL	SLOPE DISTANCE																				
	CLASS LOCATION / HCA	1	2		1		2		1		2		1	2	3						
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																				
	WETLAND / STREAM			S-A18-233 25 LF							AS-NHD-1551 < 1 LF							AW-B18-5 6 LF			



REFERENCE DRAWINGS	DRAWING NO.	DESCRIPTION
	XXXX-100-01	PROPOSED MAINLINE VALVE PLOT PLAN

**ISSUED FOR FERC**



REVISIONS		REV. NO.	DATE	DESCRIPTION
P1	TRC	08/13/18	ISSUED FOR REVIEW	
P2	TRC	08/20/18	FERC DRAFTER CLIENT REVIEW	
P3	TRC	11/02/18	ISSUED FOR FERC	

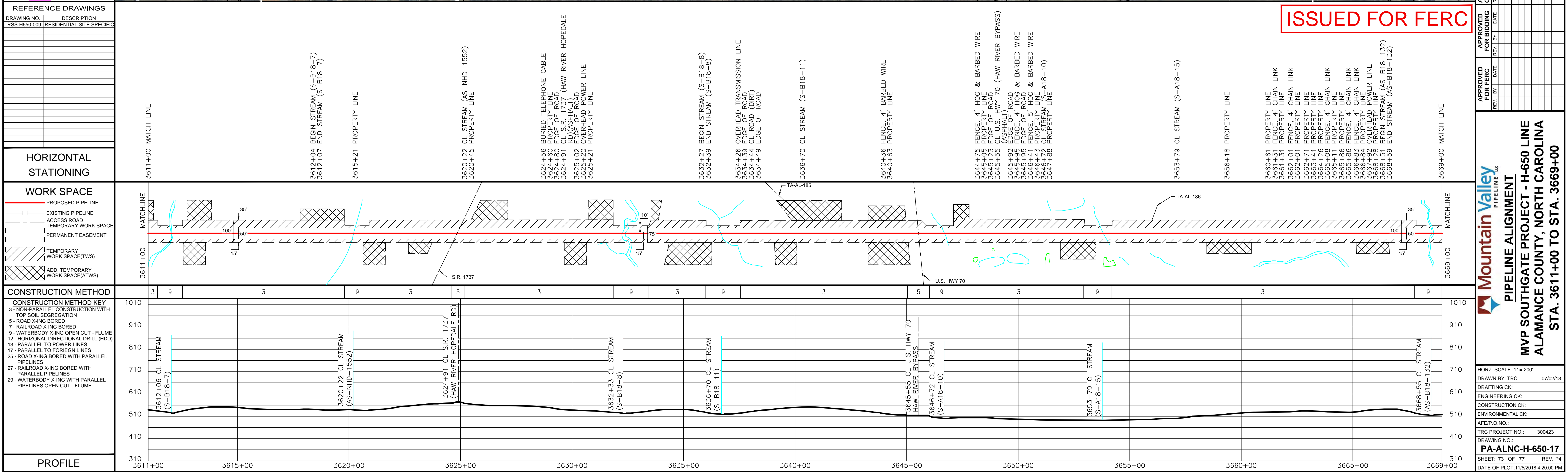
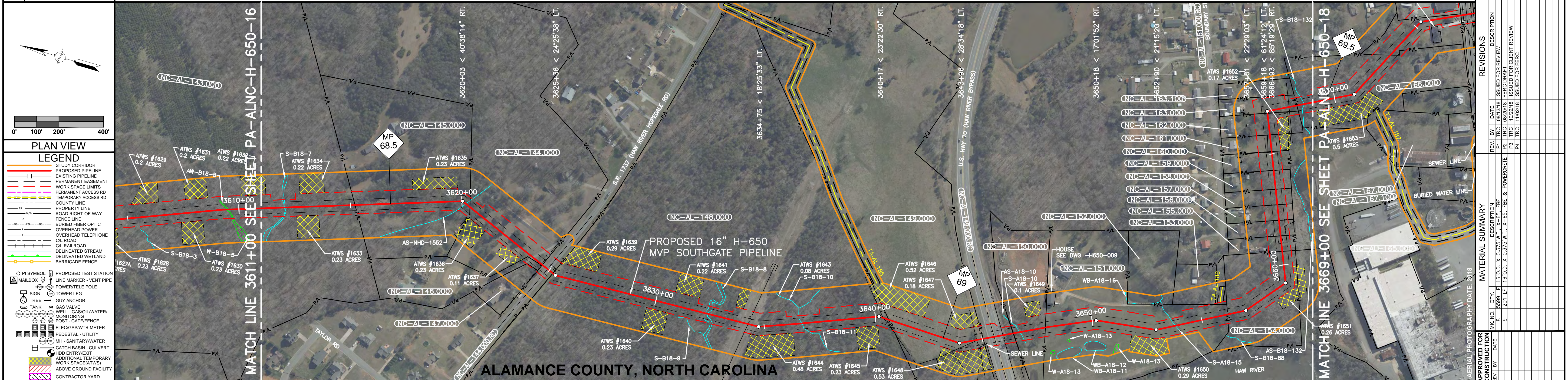
APPROVED FOR CONSTRUCTION		REV. BY	DATE

**Mountain Valley PIPELINE LLC**  
**PIPELINE ALIGNMENT**  
**MVP SOUTHGATE PROJECT - H-650 LINE**  
**ALAMANCE COUNTY, NORTH CAROLINA**  
**STA. 3557+00 TO STA. 3611+00**

HORZ. SCALE: 1" = 200'	DRAWN BY: TRC	07/02/18
DRAFTING CK:	ENGINEERING CK:	CONSTRUCTION CK:
ENVIRONMENTAL CK:	AFE/PO NO.:	TRC PROJECT NO.: 300423
DRAWING NO.:	PA-ALNC-H-650-16	SHEET: 72 OF 77
DATE OF PLOT: 11/15/2018 4:19:51 PM	REV P4	



RIGHT-OF-WAY & OWNERSHIP DATA		3611+00	NC-AL-143.000	NC-AL-145.000	NC-AL-144.000	NC-AL-144.000.RC	NC-AL-148.000	NC-AL-149.000	NC-AL-149.000.RC	NC-AL-150.000	NC-AL-151.000	NC-AL-154.000	NC-AL-155.000	NC-AL-156.000	NC-AL-157.000	NC-AL-158.000	NC-AL-159.000	NC-AL-160.000	NC-AL-161.000	NC-AL-162.000	NC-AL-163.000	NC-AL-166.000																					
		3611+00	421 LF	3615+21	524 LF	3620+45	415 LF	3624+60	61 LF	3625+21	1542 LF	3640+63	442 LF	3645+05	138 LF	3646+43	145 LF	3647+88	830 LF	3656+18	443 LF	3660+61	70 LF	3661+31	70 LF	3662+01	70 LF	3662+71	70 LF	3663+41	85 LF	3664+26	85 LF	3665+11	75 LF	3665+86	98 LF	3666+84	144 LF	3668+28	72 LF	3669+00	3669+00
DESIGN		PIPE / COATING	8																																								
		SLOPE DISTANCE																																									
		CLASS LOCATION / HCA	3										1										3																				
ENVIRONMENTAL		CONSTRUCTION EXCLUSION																																									
		WETLAND / STREAM	S-B18-7 3 LF										AS-NHD-1552 < 1 LF										S-B18-8 12 LF		S-B18-11 < 1 LF		S-A18-10 < 1 LF		S-A18-15 < 1 LF		AS-B18-132 8 LF												



**PLAN VIEW**

**LEGEND**

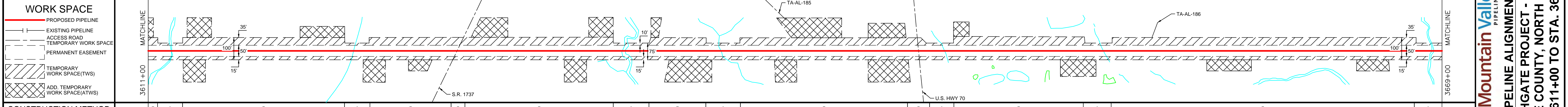
- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD TELEPHONE
- CL RAILROAD
- CL ROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRIERADE FENCE
- PROPOSED TEST STATION
- LINE MARKER - VENT PIPE
- TOWER LEG
- GUY ANCHOR
- GAS VALVE
- WELL - GAS/WATER/ MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ROAD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(TWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
RSS-H650-009	RESIDENTIAL SITE SPECIFIC

**HORIZONTAL STATIONING**

Station	Description
3612+04	BEGIN STREAM (S-B18-7)
3612+07	END STREAM (S-B18-7)
3615+21	PROPERTY LINE
3620+22	CL STREAM (AS-NHD-1552)
3620+45	PROPERTY LINE
3624+56	BURIED TELEPHONE CABLE
3624+60	PROPERTY LINE
3624+90	EDGE OF ROAD (P) (HAW RIVER HOPEDALE RD)(ASPHALT)
3625+02	EDGE OF ROAD
3625+20	OVERHEAD POWER LINE
3625+21	PROPERTY LINE
3632+27	BEGIN STREAM (S-B18-8)
3632+39	END STREAM (S-B18-8)
3634+26	OVERHEAD TRANSMISSION LINE
3634+39	EDGE OF ROAD
3634+46	CL ROAD (ORT)
3634+49	EDGE OF ROAD
3636+70	CL STREAM (S-B18-11)
3640+36	FENCE, 4' BARBED WIRE
3640+63	PROPERTY LINE
3644+75	FENCE, 4' HOG & BARBED WIRE
3645+05	PROPERTY LINE
3645+23	EDGE OF ROAD
3645+55	CL U.S. HWY 70 (HAW RIVER BYPASS)
3645+92	EDGE OF ROAD
3645+95	EDGE OF ROAD
3645+95	FENCE, 4' HOG & BARBED WIRE
3646+41	PROPERTY LINE
3646+72	CL STREAM (S-A18-10)
3647+88	PROPERTY LINE
3653+79	CL STREAM (S-A18-15)
3656+18	PROPERTY LINE
3660+61	PROPERTY LINE LINK
3661+31	PROPERTY LINE
3662+01	FENCE, 4' CHAIN LINK
3662+01	PROPERTY LINE
3663+41	PROPERTY LINE
3664+26	PROPERTY LINE
3665+08	FENCE, 4' CHAIN LINK
3665+86	PROPERTY LINE
3665+86	FENCE, 4' CHAIN LINK
3666+84	PROPERTY LINE
3667+92	OVERHEAD POWER LINE
3668+50	BEGIN STREAM (AS-B18-132)
3668+59	END STREAM (AS-B18-132)



**CONSTRUCTION METHOD**

CONSTRUCTION METHOD KEY

- 3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION
- 5 - ROAD X-ING BORED
- 7 - RAILROAD X-ING BORED
- 8 - WATERBODY X-ING OPEN CUT - FLUME
- 9 - WATERBODY X-ING OPEN CUT - FLUME
- 12 - HORIZONTAL DIRECTIONAL DRILL (HDD)
- 13 - PARALLEL TO POWER LINES
- 17 - PARALLEL TO FOREIGN LINES
- 25 - ROAD X-ING BORED WITH PARALLEL PIPELINES
- 27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES
- 29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME

**TRC** Results you can rely on

**REVISIONS**

REV. BY	DATE	DESCRIPTION
P1	08/03/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAWING CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

**MATERIAL SUMMARY**

ITEM NO.	QTY.	DESCRIPTION
8	5599 LF	18" O.D. X 0.375" W.T. X-65 FIBER
9	201 LF	16" O.D. X 0.375" W.T. X-65 FIBER & POWERGRIPE

**APPROVED FOR CONSTRUCTION**

**APPROVED FOR BIDDING**

**ISSUED FOR FERC**

**Mountain Valley PIPELINE LLC**

**PIPELINE ALIGNMENT**

**MVP SOUTHGATE PROJECT - H-650 LINE**

**ALAMANCE COUNTY, NORTH CAROLINA**

**STA. 3611+00 TO STA. 3669+00**

HORZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

APE/PO NO.:

TRC PROJECT NO.: 300423

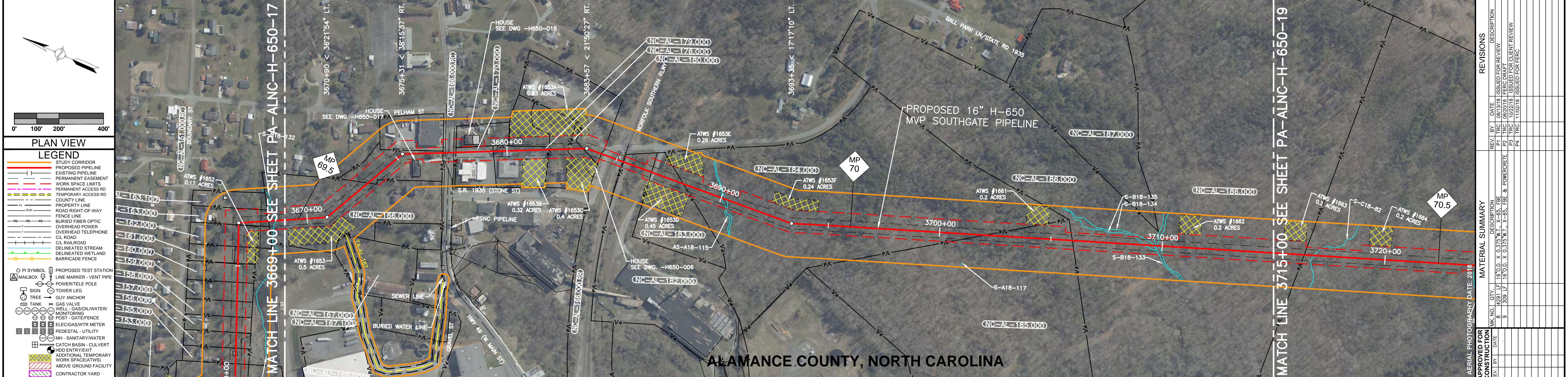
DRAWING NO.:

**PA-ALNC-H-650-17**

SHEET: 73 OF 77 REV. P4

DATE OF PLOT: 11/15/2018 4:20:00 PM

RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-166.000	NC-AL-169.000	NC-AL-166.000.RC	NC-AL-170.000	NC-AL-176.000	NC-AL-179.000	NC-AL-180.000	NC-AL-181.000	NC-AL-166.000.RR	NC-AL-182.000	NC-AL-183.000	NC-AL-184.000	NC-AL-185.000	NC-AL-186.000	
DESIGN	PIPE / COATING	3669+00	3673+29	3677+13	3677+70	3679+39	3681+89	3682+76	3683+40	3684+28	3685+34	3686+67	3688+18	3702+05	3705+96	3715+00
	SLOPE DISTANCE		8					8			9			8		
	CLASS LOCATION / HCA							3						1		
ENVIRONMENTAL	CONSTRUCTION EXCLUSION															
	WETLAND / STREAM								AS-A18-115 18 LF				S-B18-135 < 1 LF	S-B18-134 < 1 LF	S-B18-133 12 LF	



**PLAN VIEW**

**LEGEND**

- STUDY CORRIDOR
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PERMANENT EASEMENT
- WORK SPACE LIMITS
- PERMANENT ACCESS RD
- TEMPORARY ACCESS RD
- COUNTY LINE
- PROPERTY LINE
- ROAD RIGHT-OF-WAY
- FENCE LINE
- BURIED FIBER OPTIC
- OVERHEAD POWER
- OVERHEAD TELEPHONE
- CL ROAD
- CL RAILROAD
- DELINEATED STREAM
- DELINEATED WETLAND
- BARRICADE FENCE
- PROPOSED TEST STATION
- LINE MARKER - VENT PIPE
- LINE MARKER - TELE POLE
- TOWER LEG
- TREE
- GUY ANCHOR
- GAS VALVE
- WELL - GAS/OIL/WATER
- MONITORING
- POST - GATE/FENCE
- ELEC/GAS/WTR METER
- PEDESTAL - UTILITY
- MH - SANITARY/WATER
- CATCH BASIN - CULVERT
- ROAD ENTRY/EXIT
- ADDITIONAL TEMPORARY WORK SPACE(ATWS)
- ABOVE GROUND FACILITY
- CONTRACTOR YARD

**REFERENCE DRAWINGS**

DRAWING NO.	DESCRIPTION
RSS-H650-018	RESIDENTIAL SITE SPECIFIC
RSS-H650-017	RESIDENTIAL SITE SPECIFIC
RSS-H650-006	RESIDENTIAL SITE SPECIFIC

**HORIZONTAL STATIONING**

**WORK SPACE**

PROPOSED PIPELINE

EXISTING PIPELINE

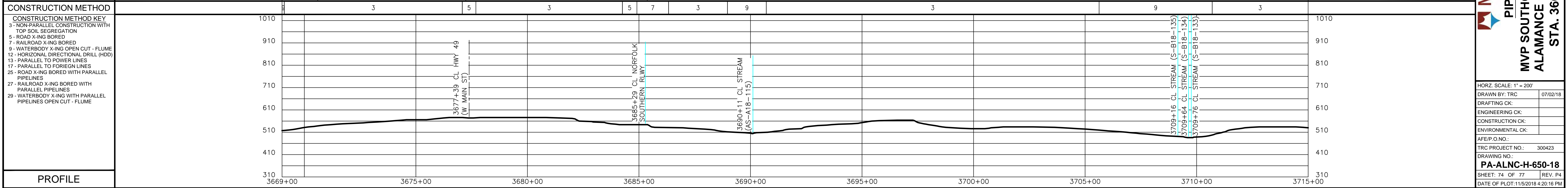
ACCESS ROAD

TEMPORARY WORK SPACE

PERMANENT EASEMENT

TEMPORARY WORK SPACE(TWS)

ADD. TEMPORARY WORK SPACE(ATWS)



**ISSUED FOR FERC**



**REVISIONS**

REV. NO.	DATE	DESCRIPTION
P1	08/13/18	ISSUED FOR REVIEW
P2	08/20/18	FERC DRAFTER CLIENT REVIEW
P3	08/20/18	FERC DRAFTER CLIENT REVIEW
P4	11/02/18	ISSUED FOR FERC

**MATERIAL SUMMARY**

QTY.	DESCRIPTION
4291 LF	16" O.D. X 0.375" W.T. X-655 FIBER
309 LF	16" O.D. X 0.375" W.T. X-655 FIBER & POWER/CONCRETE

**APPROVED FOR CONSTRUCTION**

REV. BY	DATE

**APPROVED FOR FERC**

REV. BY	DATE

**Mountain Valley PIPELINE LLC**

**PIPELINE ALIGNMENT**

**MVP SOUTHGATE PROJECT - H-650 LINE**

**ALAMANCE COUNTY, NORTH CAROLINA**

**STA. 3669+00 TO STA. 3715+00**

HORIZ. SCALE: 1" = 200'

DRAWN BY: TRC 07/02/18

DRAFTING CK:

ENGINEERING CK:

CONSTRUCTION CK:

ENVIRONMENTAL CK:

AFE/PI O. NO.:

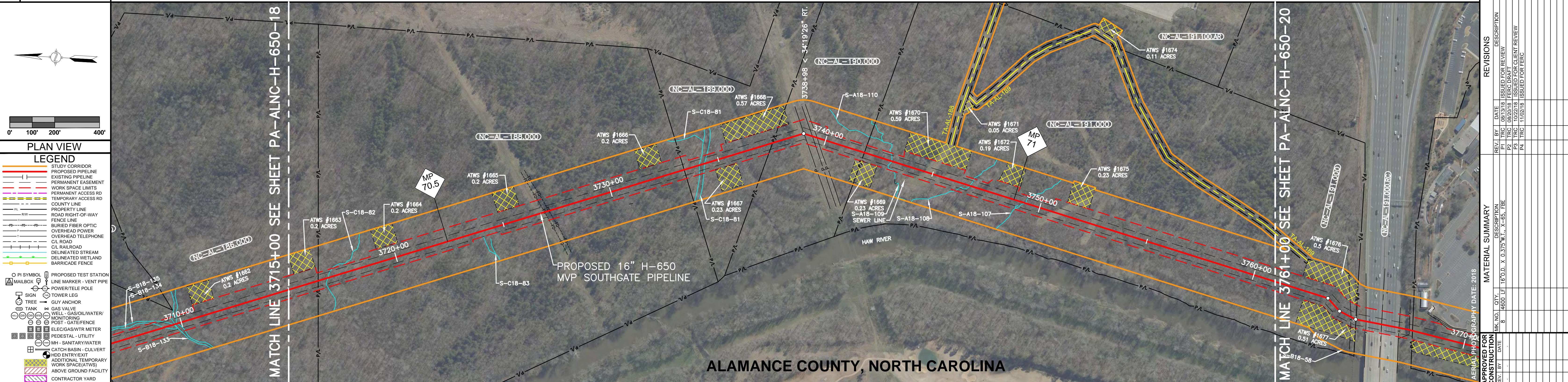
TRC PROJECT NO.: 300423

DRAWING NO.: **PA-ALNC-H-650-18**

SHEET: 74 OF 77 REV. P4

DATE OF PLOT: 11/15/2018 4:20:16 PM

RIGHT-OF-WAY & OWNERSHIP DATA		NC-AL-186.000	NC-AL-188.000	NC-AL-189.000	NC-AL-190.000	NC-AL-191.000
		3715+00 3715+00	3733+41	3737+53	3741+81	3761+00 3761+00
		137 LF	1704 LF	412 LF	428 LF	1919 LF
DESIGN	PIPE / COATING					
	SLOPE DISTANCE					
	CLASS LOCATION / HCA	1				
ENVIRONMENTAL	CONSTRUCTION EXCLUSION					
	WETLAND / STREAM	S-C18-82 < 1 LF	S-C18-81 24 LF	S-A18-109 < 1 LF	S-A18-108 < 1 LF	S-A18-107 < 1 LF

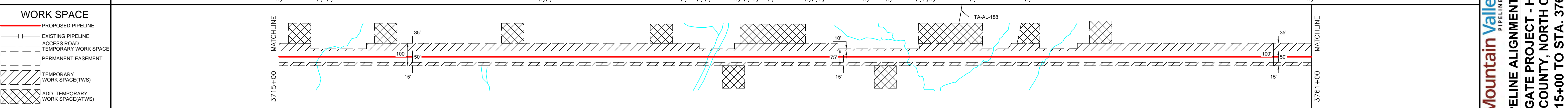


ALAMANCE COUNTY, NORTH CAROLINA

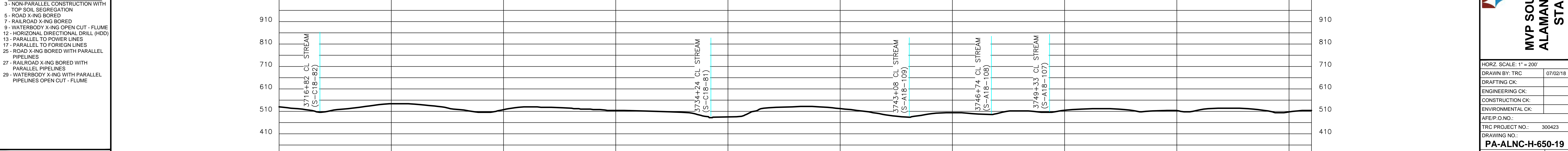
ISSUED FOR FERC

DRAWING NO.	DESCRIPTION
3715+00	MATCH LINE
3716+37	PROPERTY LINE
3716+82	CL STREAM (S-C18-82)
3726+92	BURIED FIBER OPTIC CABLE
3727+12	BURIED FIBER OPTIC CABLE
3733+41	PROPERTY LINE
3734+12	BEGIN STREAM (S-C18-81)
3734+36	END STREAM (S-C18-81)
3736+17	EDGE OF ROAD
3736+21	CL ROAD (GRASS)
3736+25	EDGE OF ROAD
3737+53	PROPERTY LINE
3738+99	OVERHEAD TRANSMISSION LINE
3739+39	OVERHEAD TRANSMISSION LINE
3739+61	OVERHEAD TRANSMISSION LINE
3741+81	PROPERTY LINE
3743+08	CL STREAM (S-A18-109)
3744+61	EDGE OF ROAD
3744+66	CL ACCESS RD (GRASS)
3744+72	EDGE OF ROAD
3746+74	CL STREAM (S-A18-108)
3749+33	CL STREAM (S-A18-107)
3761+00	MATCH LINE

HORIZONTAL STATIONING



WORK SPACE



PROFILE

CONSTRUCTION METHOD KEY	3	9	3	9	3	9	3	9	3
3- NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION									
5- ROAD X-ING BORED									
7- RAILROAD X-ING BORED									
9- WATERBODY X-ING OPEN CUT - FLUME									
12- HORIZONTAL DIRECTIONAL DRILL (HDD)									
13- PARALLEL TO POWER LINES									
17- PARALLEL TO FOREIGN LINES									
25- ROAD X-ING BORED WITH PARALLEL PIPELINES									
27- RAILROAD X-ING BORED WITH PARALLEL PIPELINES									
29- WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME									



REV. BY	DATE	DESCRIPTION
P1	08/31/18	ISSUED FOR REVIEW
P2	09/20/18	FERC DRAFTER CLIENT REVIEW
P3	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY	DESCRIPTION	QTY.	UNIT
B	4600 LF 18" O.D. X 0.375 W.T. X-655 FER	4600	LF

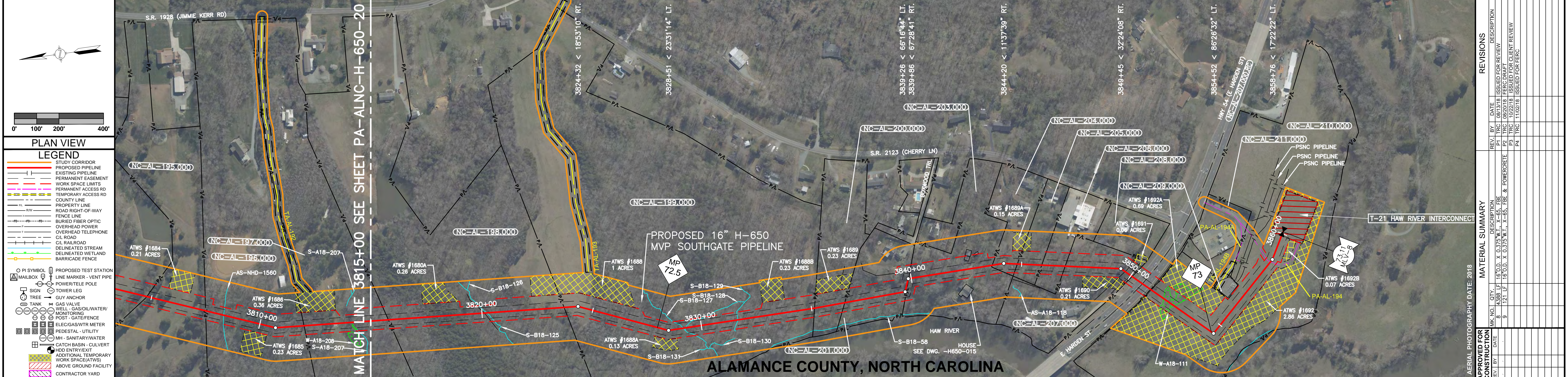
APPROVED FOR CONSTRUCTION	DATE

Mountain Valley PIPELINE LLC  
 PIPELINE ALIGNMENT  
 MVP SOUTHGATE PROJECT - H-650 LINE  
 ALAMANCE COUNTY, NORTH CAROLINA  
 STA. 3715+00 TO STA. 3761+00

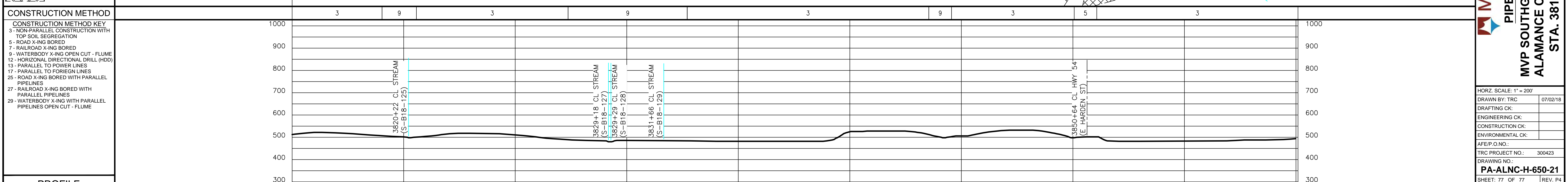
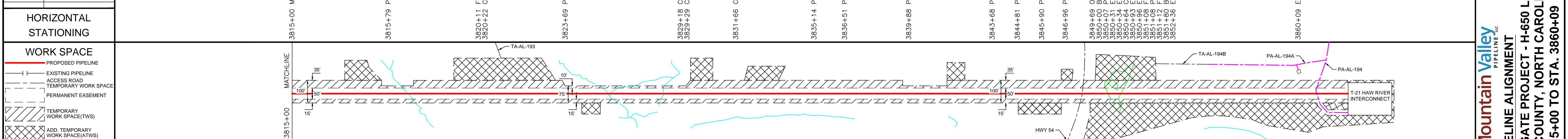
HORZ. SCALE: 1" = 200'	DATE OF PLOT: 11/15/2018 4:20:25 PM
DRAWN BY: TRC	07/02/18
DRAFTING CK:	
ENGINEERING CK:	
CONSTRUCTION CK:	
ENVIRONMENTAL CK:	
AFE/P.O. NO.:	
TRC PROJECT NO.:	300423
DRAWING NO.:	
PA-ALNC-H-650-19	
SHEET: 75 OF 77	REV P4



RIGHT-OF-WAY & OWNERSHIP DATA	3815+00	NC-AL-197.000	NC-AL-198.000	NC-AL-199.000	NC-AL-200.000	NC-AL-201.000	NC-AL-203.000	NC-AL-204.000	NC-AL-205.000	NC-AL-206.000	NC-AL-207.000	NC-AL-207.000.RC	NC-AL-210.000	3860+09											
DESIGN	PIPE / COATING	79 LF	790 LF	1145 LF	3635+14	137 LF	3636+51	337 LF	3639+88	380 LF	3643+68	113 LF	3644+81	109 LF	3645+90	106 LF	3646+96	311 LF	3649+96	3650+07	101 LF	3651+08	901 LF	3660+09	
SLOPE DISTANCE	8																								
CLASS LOCATION / HCA	1																								
ENVIRONMENTAL	CONSTRUCTION EXCLUSION																								
WETLAND / STREAM	S-B18-125 < 1 LF																								
	S-B18-127 S-B18-128 S-B18-129 < 1 LF < 1 LF < 1 LF																								
	W-A18-111 56 LF																								



REFERENCE DRAWINGS	DRAWING NO.	DESCRIPTION
	XX-T21-1100-01	PROPOSED T-21 HAW RIVER INTERCONNECT
	RSS-H650-015	RESIDENTIAL SITE SPECIFIC



CONSTRUCTION METHOD	CONSTRUCTION METHOD KEY	STATIONING
3 - NON-PARALLEL CONSTRUCTION WITH TOP SOIL SEGREGATION	3	3815+00 to 3820+00
5 - ROAD X-ING BORED	5	3820+00 to 3823+69
7 - RAILROAD X-ING BORED	7	3823+69 to 3829+18
9 - WATERBODY X-ING OPEN CUT - FLUME	9	3829+18 to 3831+66
12 - HORIZONTAL DIRECTIONAL DRILL (HDD)	12	3831+66 to 3835+14
13 - PARALLEL TO POWER LINES	13	3835+14 to 3836+51
17 - PARALLEL TO FOREIGN LINES	17	3836+51 to 3839+88
25 - ROAD X-ING BORED WITH PARALLEL PIPELINES	25	3839+88 to 3843+68
27 - RAILROAD X-ING BORED WITH PARALLEL PIPELINES	27	3843+68 to 3844+81
29 - WATERBODY X-ING WITH PARALLEL PIPELINES OPEN CUT - FLUME	29	3844+81 to 3845+90



REVISIONS	REV. NO.	DATE	DESCRIPTION
	P1	08/13/18	ISSUED FOR REVIEW
	P2	08/20/18	FERC DRAWS CLIENT REVIEW
	P3	11/02/18	ISSUED FOR FERC

MATERIAL SUMMARY	QTY.	DESCRIPTION
18" O.D. X 0.375" W.T. X-65 FBE	4398 LF	
12" LF 18" O.D. X 0.375" W.T. X-65 FBE & POWERGRITE	9	

APPROVED FOR CONSTRUCTION  
DATE: 2018

**ISSUED FOR FERC**

**Mountain Valley PIPELINE LLC**  
**PIPELINE ALIGNMENT**  
**MVP SOUTHGATE PROJECT - H-650 LINE**  
**ALAMANCE COUNTY, NORTH CAROLINA**  
**STA. 3815+00 TO STA. 3860+09**

HORIZ. SCALE: 1" = 200'  
 DRAWN BY: TRC 07/02/18  
 DRAFTING CK:  
 ENGINEERING CK:  
 CONSTRUCTION CK:  
 ENVIRONMENTAL CK:  
 AFE/P.O. NO.:  
 TRC PROJECT NO.: 300423  
 DRAWING NO.:  
**PA-ALNC-H-650-21**  
 SHEET: 77 OF 77 REV. P4  
 DATE OF PLOT: 11/15/2018 4:28:48 PM