

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 7-23-2014 TO 10-16-2014.
- IMAGERY DERIVED FROM GOOGLE MAPS.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- ERM AND JAMES HEMME, WV P. E. NO. 12195 (HEREAFTER COLLECTIVELY REFERRED TO AS ERM) HAVE DEPICTED EROSION AND SEDIMENTATION CONTROL (E&S) BEST MANAGEMENT PRACTICES (BMPs) ON THESE ALIGNMENT PLAN SHEETS PREPARED BY GAI CONSULTANTS, INC. FOR USE BY CONTRACTOR TO CONTROL EROSION AND SEDIMENTATION DURING CONSTRUCTION OF THIS PROJECT. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE GENERAL NOTES SECTION OF THIS PLAN SET. NO RESPONSIBILITY IS ASSUMED FOR INACCURACIES OF SOURCE DATA PROVIDED BY OTHERS. ERM RETAINS NO RESPONSIBILITY OF LIABILITY FOR INFORMATION DEVELOPED, PREPARED OR OTHERWISE PROVIDED BY OTHER, OR FOR INACCURACIES OF SOURCE DATA PROVIDED BY OTHER. ERM ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DESIGNS OR WORK PRODUCTS OF ANY TYPE TO THE EXTENT THAT THEY ARE BASED UPON OR DERIVED FROM SUCH INCORRECT INFORMATION OR DATA.

ONE CALL INFO



Atlantic Coast PipelineSM

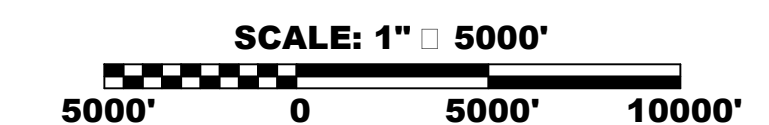
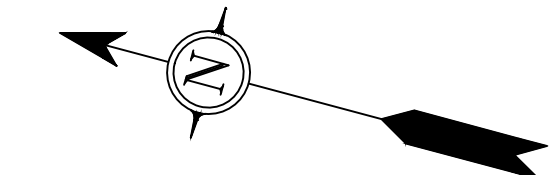
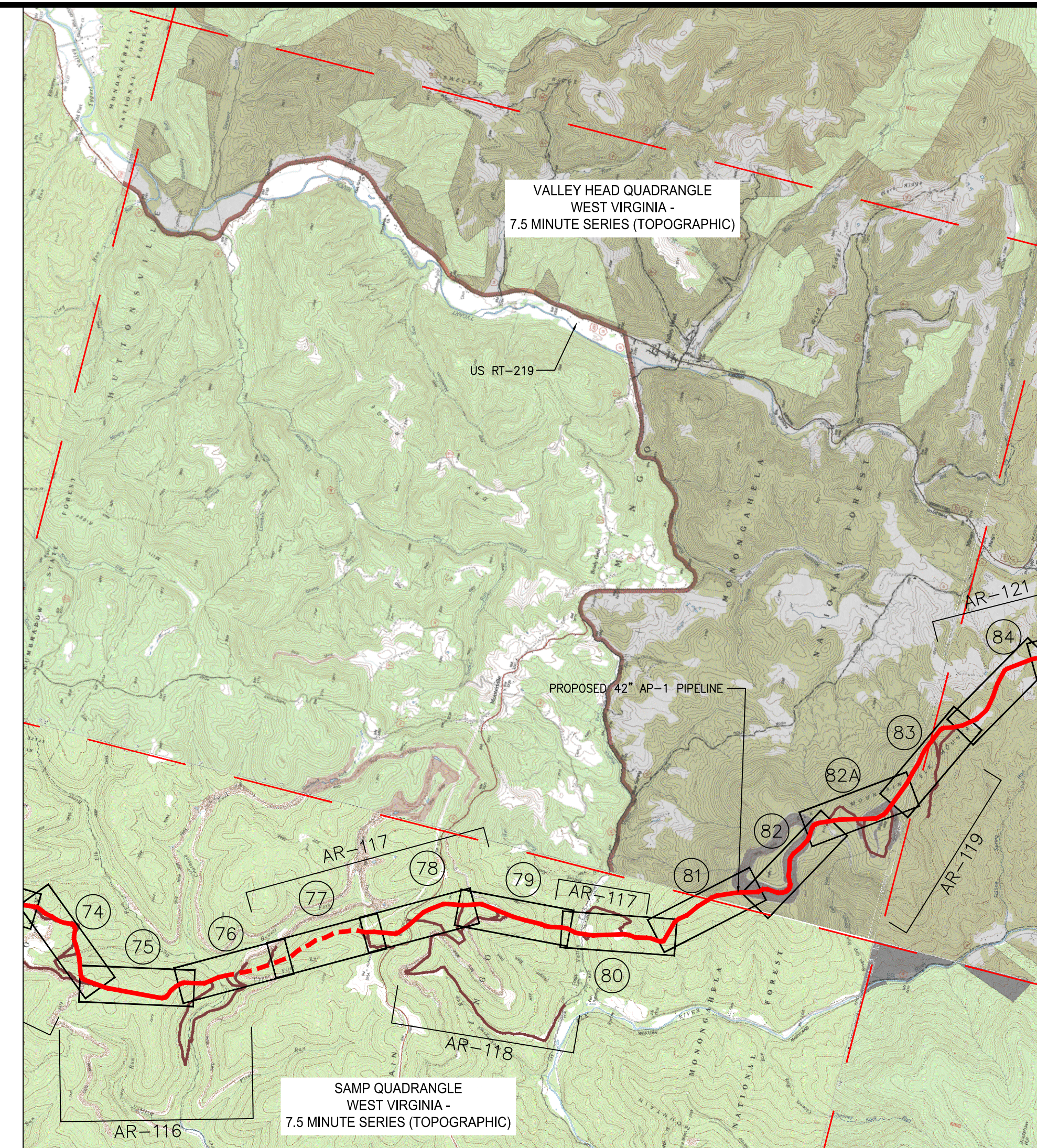
LEGEND

- PROPOSED GAS PIPELINE
- PROPOSED GAS PIPELINE (NO GROUND SURVEY)
- PROPOSED ACCESS ROAD
- COUNTY LINES
- USGS 7.5 MINUTE TOPOGRAPHICAL BOUNDARIES
- ALIGNMENT SHEET NUMBER
- ACCESS ROAD SHEET NUMBER

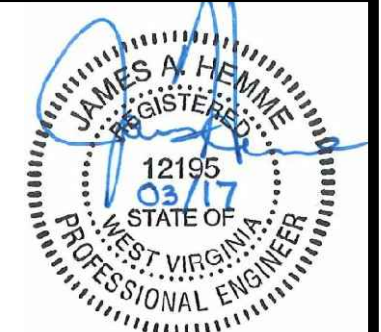
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SHEET NO.	REV.	SHEET TITLE
1-4		INTENTIONALLY LEFT BLANK
5		COVER SHEET
6-73		INTENTIONALLY LEFT BLANK
74		CONSTRUCTION ALIGNMENT (STA 3168+00 TO 3222+00)
75		CONSTRUCTION ALIGNMENT (STA 3222+00 TO 3276+00)
76		CONSTRUCTION ALIGNMENT (STA 3276+00 TO 3330+00)
77		CONSTRUCTION ALIGNMENT (STA 3330+00 TO 3338+00)
78		CONSTRUCTION ALIGNMENT (STA 3338+00 TO 3392+00)
79		CONSTRUCTION ALIGNMENT (STA 3392+00 TO 3446+00)
80		CONSTRUCTION ALIGNMENT (STA 3446+00 TO 3499+00)

SPREAD 2A PIPELINE DRAWING INDEX		
SHEET NO.	REV.	SHEET TITLE
81		CONSTRUCTION ALIGNMENT (STA 3499+00 TO 3554+00)
82		CONSTRUCTION ALIGNMENT (STA 3554+00 TO 3610+00)
82A		CONSTRUCTION ALIGNMENT (STA 3610+00 TO 3654+00)
83		CONSTRUCTION ALIGNMENT (STA 3654+00 TO 3708+00)
84		CONSTRUCTION ALIGNMENT (STA 3708+00 TO 3762+00)

ATLANTIC COAST PIPELINE PROJECT - 42" SPREAD 2A



NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION



42" SPREAD 2A PIPELINE
E & S CONTROLS COVER SHEET
RANDOLPH COUNTY, WEST VIRGINIA

ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

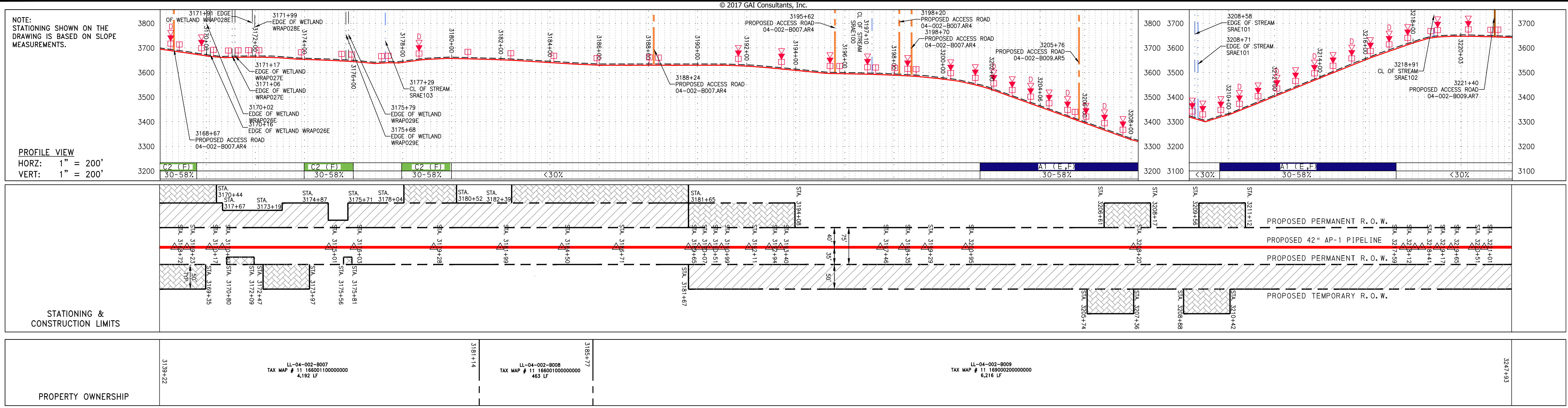
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DATE: 6/5/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET

gai consultants
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

mbe monaloh basin engineers
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.
140468
TASK NO. SUB TASK NO.
005
GROUP ID DRAWING NO.
D E005
005 OF 84

J:\2665-GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET 74.DWG



NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA. 3168+00 TO 3222+00
 RANDOLPH COUNTY, WEST VIRGINIA

ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

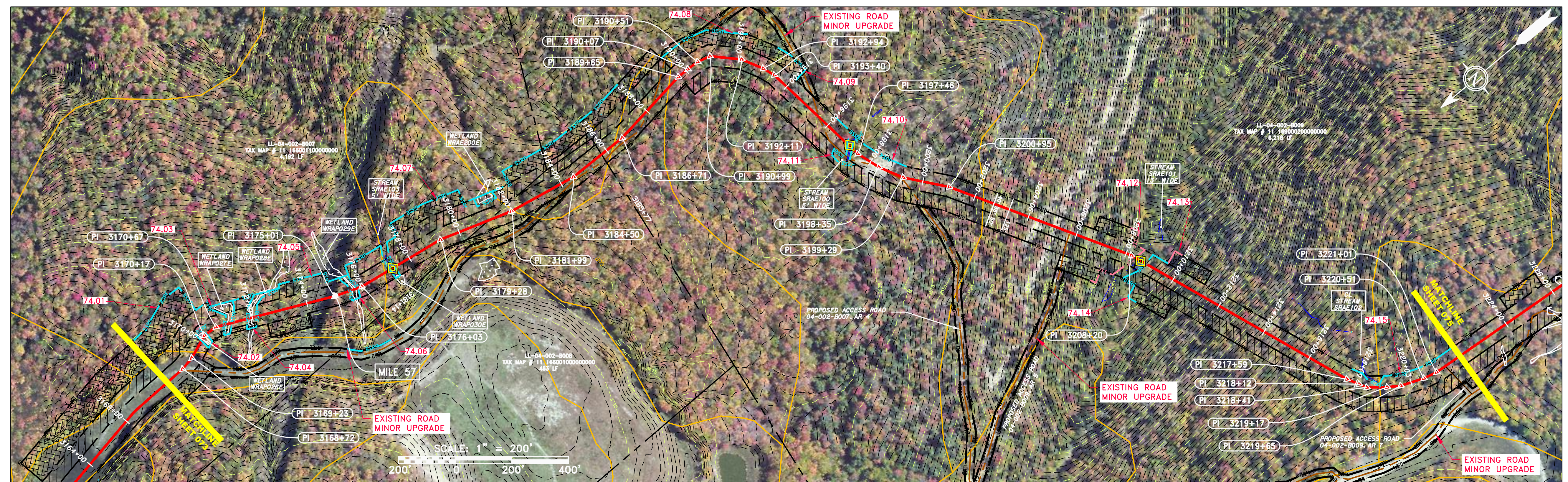
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 DRAWN: CLM
 CHECKED: DLH
 APPROVED: NET

SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	005 00
GROUP ID	DRAWING NO.	D E074
074	OF 344	

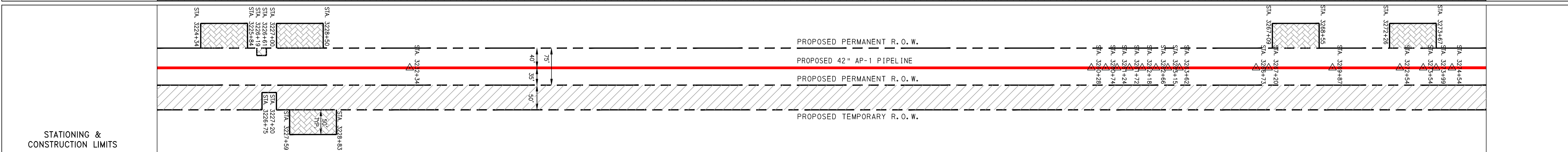
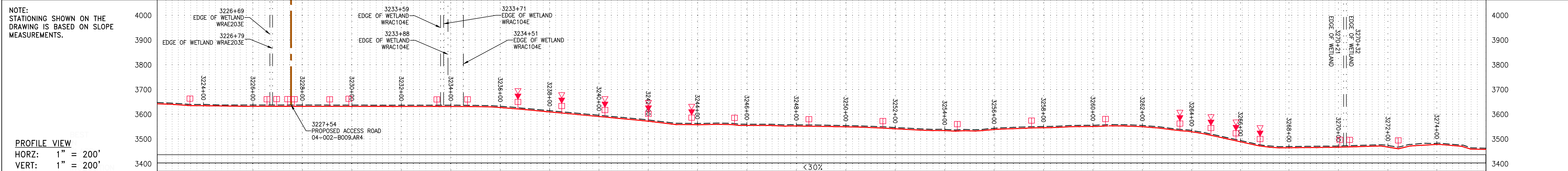
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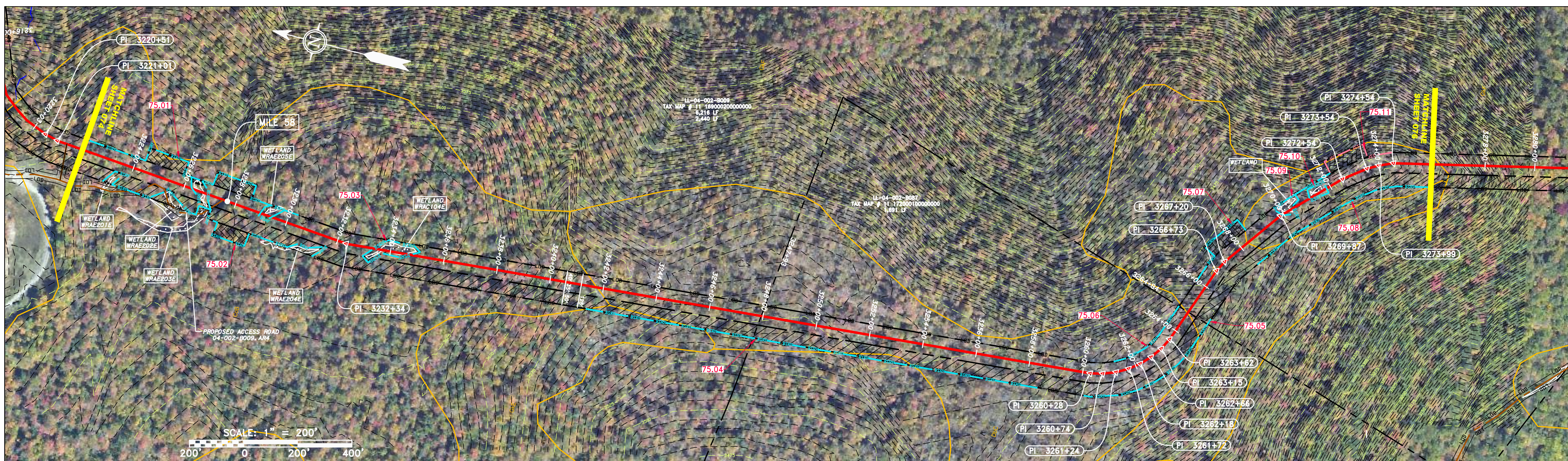
PIPE SPECIFICATION

<p>LEGEND</p> <ul style="list-style-type: none"> PROPERTY LINE FENCE STREAM EXISTING GAS PIPELINE OVERHEAD UTILITY LINES ACCESS ROAD PROPOSED GAS PIPELINE STORM SEWER UNDERGROUND ELECTRIC WATER LINE SANITARY SEWER EDGE OF GRAVEL PROPOSED PERMANENT EASEMENT PROPOSED GAS PIPELINE (NO GROUND SURVEY) EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE 	<ul style="list-style-type: none"> PERMANENT WATERBARS/SLOPE BREAKER TEMPORARY WATERBARS/SLOPE BREAKER TRENCH BREAKER/PLUG TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT WATERBAR LOD BSTRF SSF 111.03 CUB A1 (E-F) 30-58% LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF) SUPER SILT FENCE COMPOST FILTER SOCK SEDIMENT BARRIER IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC. FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN IN THESE DRAWINGS. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. ALL STATIONING SHOWN IS SLOPE STATIONING. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS WITH MINOR IMPROVEMENTS, 2) EXISTING ROADS WITH MAJOR IMPROVEMENTS, 3) EXISTING ROADS WITH MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
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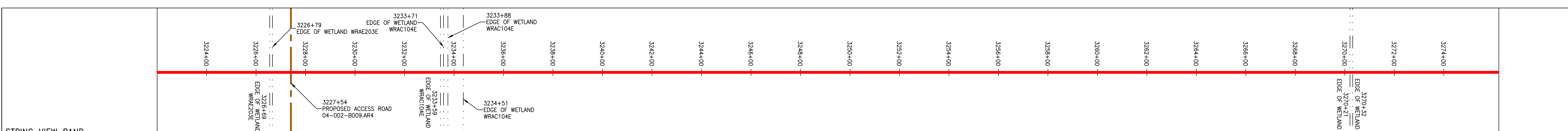
STRING VIEW BAND



PROPERTY OWNERSHIP	TAX MAP #	TAX MAP #	TAX MAP #
3186+77	LL-04-002-8009 TAX MAP # 11 188000200000000 6,216 LF	3247+93	LL-04-002-8087 TAX MAP # 11 172000100000000 1,691 LF
		3264+84	LL-04-002-8009 TAX MAP # 11 188000200000000 2,440 LF
		3289+24	



PIPE SPECIFICATION
42" AP-1 PIPELINE



<p>LEGEND</p> <ul style="list-style-type: none"> PROPERTY LINE FENCE STREAM EXISTING GAS PIPELINE OVERHEAD UTILITY LINES ACCESS ROAD PROPOSED GAS PIPELINE STORM SEWER UNDERGROUND ELECTRIC WATER LINE SANITARY SEWER EDGE OF GRAVEL PROPOSED PERMANENT EASEMENT PROPOSED GAS PIPELINE (NO GROUND SURVEY) EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT WATERBAR LOD BSRF SSF 111.03 SOIL TYPE TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. IMAGERY TAKEN FROM GOOGLE EARTH. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. ALL STATIONING SHOWN IS SLOPE STATIONING. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
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REVISIONS			
NO.	DATE	CHKD.	APPROV.

ERM

ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

CONSTRUCTION ALIGNMENT STA. 3222+00 TO 3276+00
 RANDOLPH COUNTY, WEST VIRGINIA

SCALE:	AS SHOWN
DATE:	6/2/17
DRAWN:	RLM
CHECKED:	DLH
APPROVED:	NET

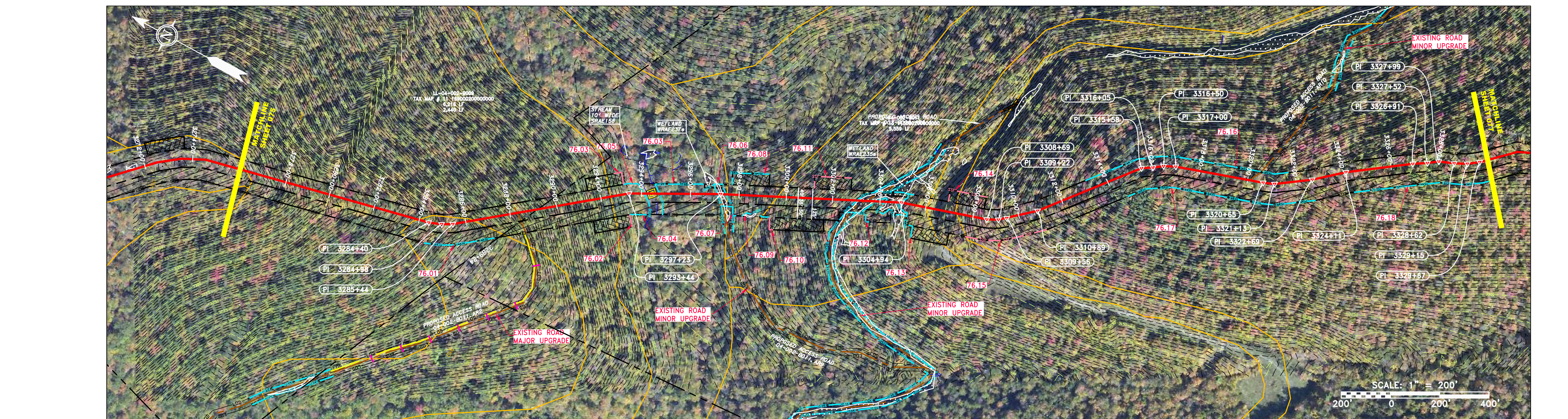
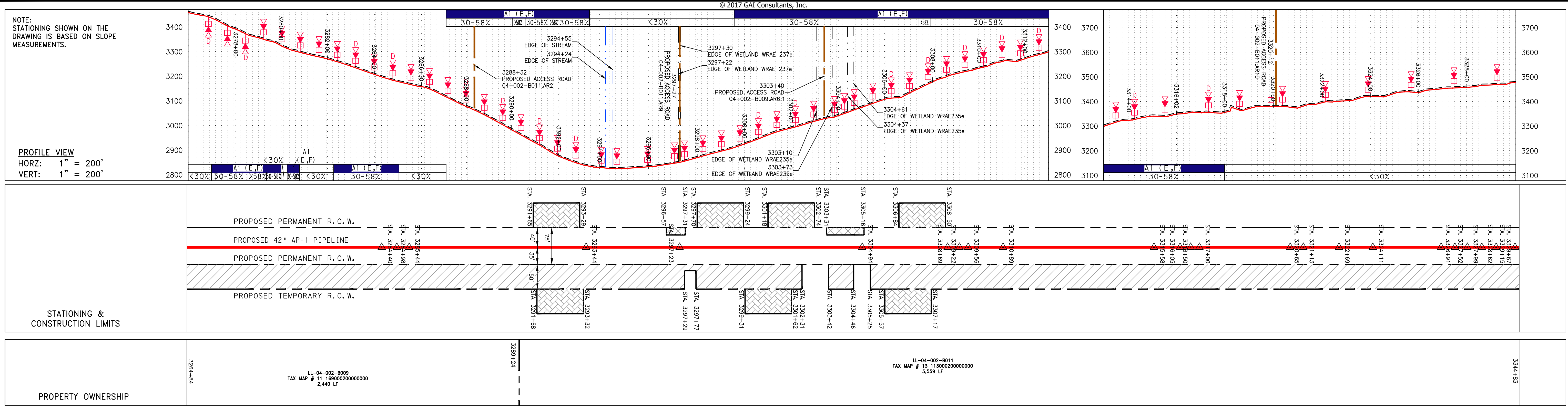
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E075
075	OF	344

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET 75.DWG

6/2/2017 9:03 AM



PIPE SPECIFICATION

3276+00	3286+00	3288+00	3289+00	3290+00	3291+00	3292+00	3293+00	3294+00	3295+00	3296+00	3297+00	3298+00	3299+00	3300+00	3301+00	3302+00	3303+00	3304+00	3305+00	3306+00	3307+00	3308+00	3309+00	3310+00	3311+00	3312+00	3313+00	3314+00	3315+00	3316+00	3317+00	3318+00	3319+00	3320+00	3321+00	3322+00	3323+00	3324+00	3325+00	3326+00	3327+00	3328+00	3329+00	3330+00	3331+00	3332+00	3333+00	3334+00	3335+00	3336+00	3337+00	3338+00	3339+00	3340+00	3341+00	3342+00	3343+00	3344+00	3344+83
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STRING VIEW BAND

LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
X-X	FENCE	E	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	—	WETLAND	—	UTILITY POLE
G-G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	—	
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	TRENCH BREAKER/PLUG	—	SSF
					DRAIN AND OUTLET	—	111.03
					STREAM CROSSING	—	ORANGE SAFETY FENCE
					USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	ROADSIDE DITCH
					SEEP	—	SOIL TYPE
					CONSTRUCTION ENTRANCE WITH DITCH	—	A1 (E,F)
					CULVERT/WATERBAR	—	30-58%

NOTES:

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NO.	DATE	CHKD.	APP'D.	DESCRIPTION

REVISIONS

ERM

ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

CONSTRUCTION ALIGNMENT STA. 3276+00 TO 3330+00
 RANDOLPH COUNTY, WEST VIRGINIA

SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: RDC
 CHECKED: DLH
 APPROVED: NET

gai consultants

SOUTHPOINT OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

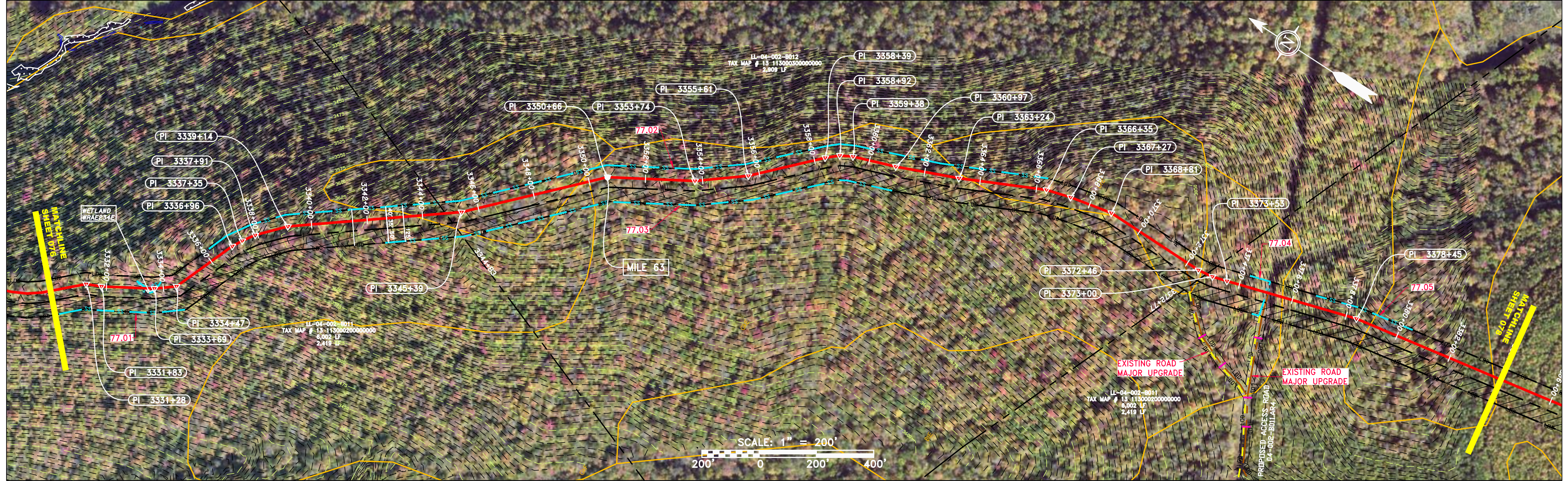
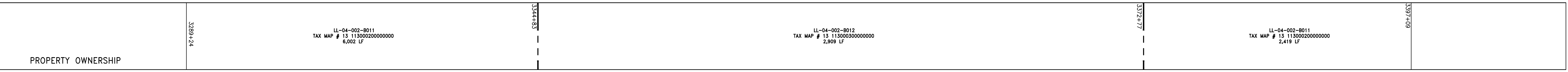
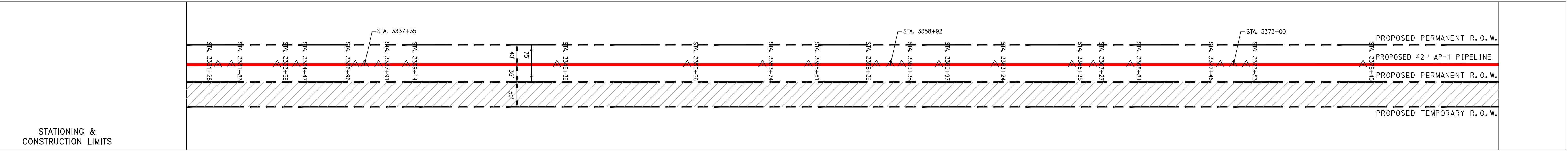
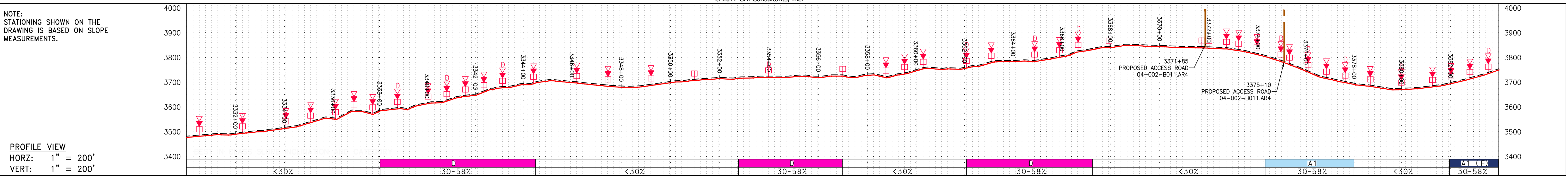
mbe monaloh basin engineers

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

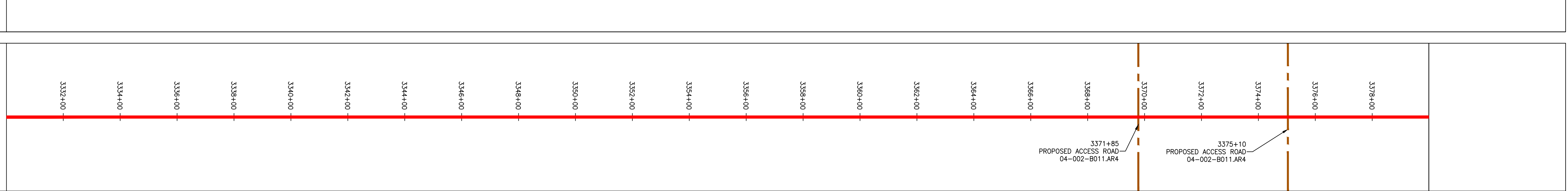
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 TASK NO. 005 SUB TASK NO. 00
 GROUP ID D DRAWING NO. E076
 076 OF 344

6/1/2017 2:14 PM

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET 77.DWG



PIPE SPECIFICATION



LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
X-X	FENCE	E	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	—	WETLAND	—	UTILITY POLE
G-G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	—	—
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	—	—	—
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	—	—	—
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	—	—	—

▲	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE
▲	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
▲	TRENCH BREAKER/PLUG	—	SSF	—	SUPER SILT FENCE
▲	TRENCH BREAKER/PLUG BLEEDER	—	111.03	—	COMPOST FILTER SOCK
▲	DRAIN AND OUTLET	—	—	—	SEDIMENT BARRIER IDENTIFICATION
▲	STREAM CROSSING	—	—	—	ORANGE SAFETY FENCE
▲	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	—	—	ROADSIDE DITCH
▲	SEEP	—	—	—	SOIL TYPE
▲	CONSTRUCTION ENTRANCE WITH DITCH	—	—	—	TYPICAL BIC SLOPE CATEGORY
▲	CULVERT AS NEEDED	—	—	—	SLOPE INCLINATION
▲	CULVERT WATERBAR	—	—	—	—

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
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REVISIONS	
NO.	DATE
CHKD.	DATE
APPROV.	DATE
DESCRIPTION	

CONSTRUCTION ALIGNMENT STA. 3330+00 TO 3384+00
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: GOS
 CHECKED: DLH
 APPROVED: NET

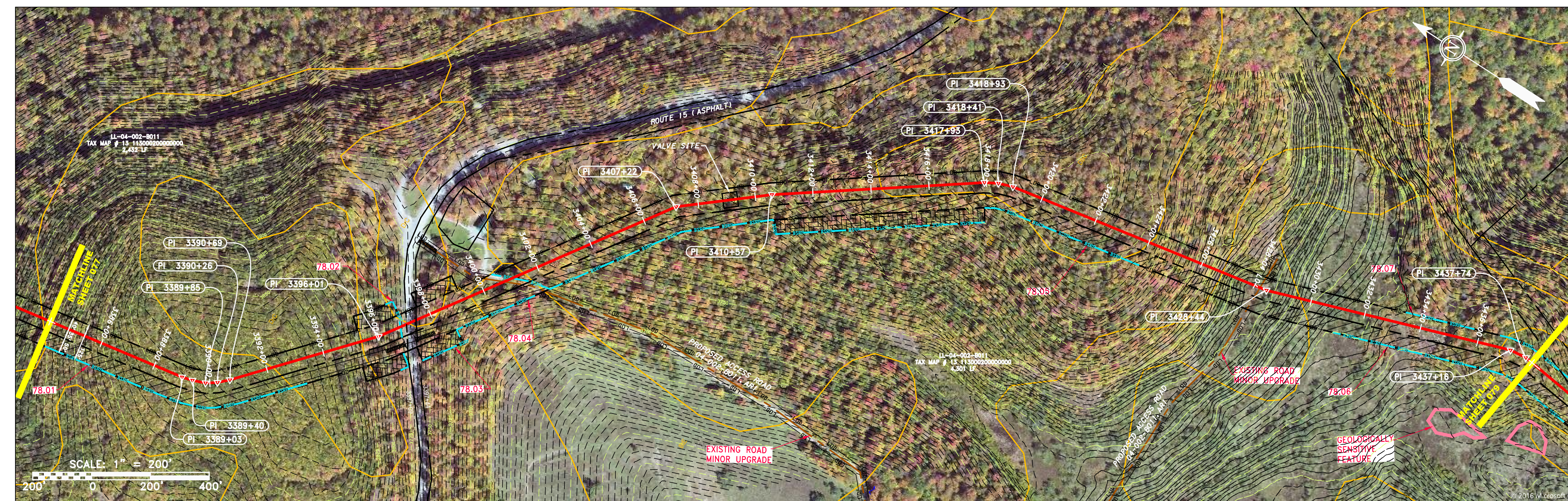
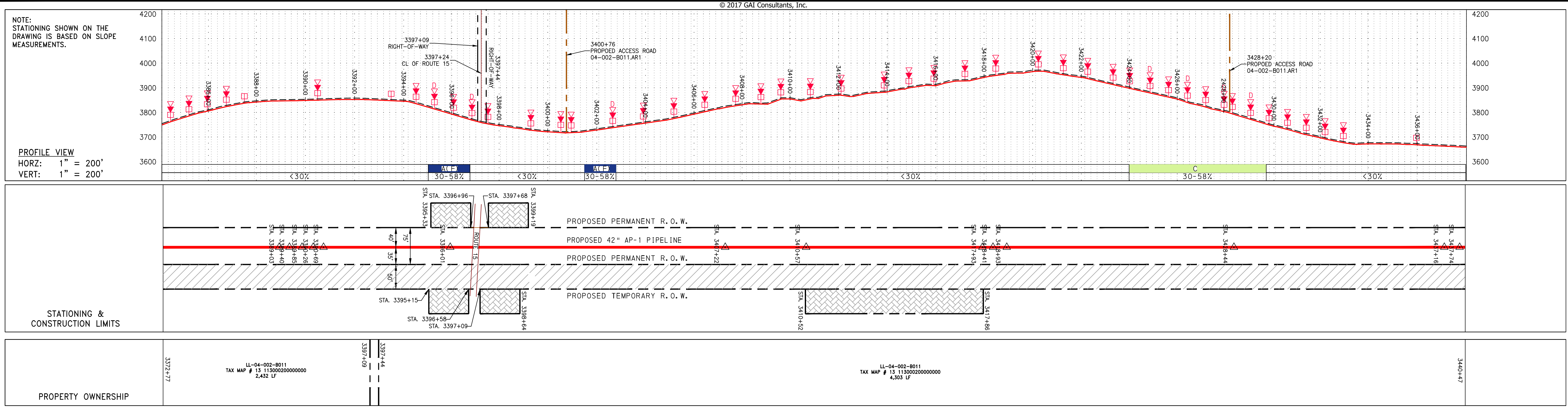
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-873-3545

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

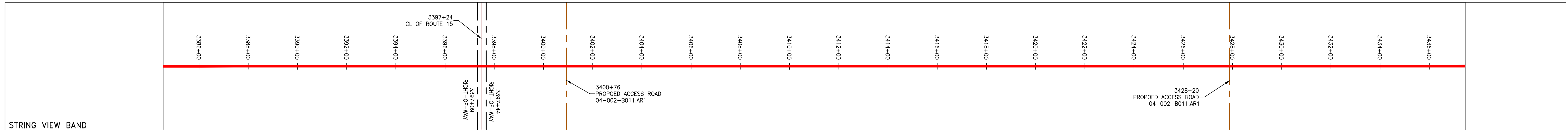
PROJECT NO./DASH NO.	140468
TASK NO.	005
SUB TASK NO.	00
GROUP ID	D
DRAWING NO.	E077
077	OF 344

6/1/2017 2:09 PM

J:\2665 -GAI WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET 78.DWG



PIPE SPECIFICATION	



LEGEND

— X — X — FENCE	— E — UNDERGROUND ELECTRIC	— W — WATER LINE	— SAN — SANITARY SEWER	— OH — OVERHEAD UTILITY LINES	— — ACCESS ROAD	— — PROPOSED PERMANENT EASEMENT	— — PROPOSED GAS PIPELINE (NO GROUND SURVEY)	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.	UTILITY POLE	PERMANENT WATERBAR/SLOPE BREAKER	TEMPORARY WATERBAR/SLOPE BREAKER	TRENCH BREAKER/PLUG	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	STREAM CROSSING	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	SEEP	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED	CULVERT WATERBAR	LOD	BSRF	SSF	111.03	ORANGE SAFETY FENCE	ROADSIDE DITCH	SOIL TYPE	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
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NOTES:

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REVISIONS		DESCRIPTION
NO.	DATE	
CHKD.	DWGN.	
APPROD.		

ERM

ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

CONSTRUCTION ALIGNMENT STA. 3384+00 TO 3438+00
 RANDOLPH COUNTY, WEST VIRGINIA

SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: GOS
 CHECKED: DLH
 APPROVED: NET

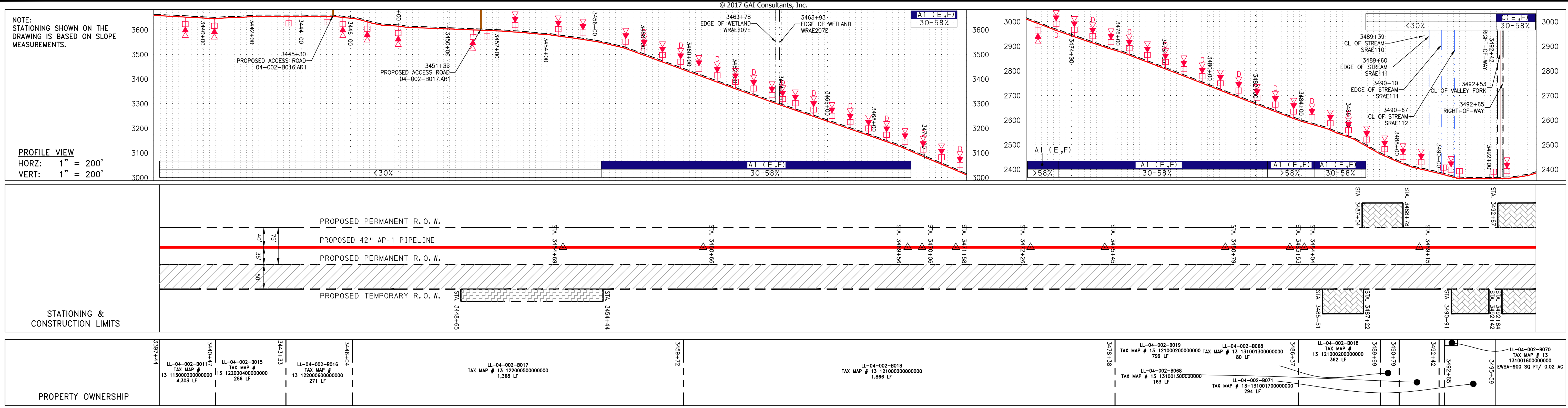
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-273-3545

300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	
005	00	
GROUP ID	DRAWING NO.	
D	E078	
078	OF	344

6/1/2017 1:53 PM

J:\2665 -GAI WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET 79.DWG



PIPE SPECIFICATION

STRING VIEW BAND

LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
X-X	FENCE	E	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	—	WETLAND	—	UTILITY POLE
G-G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	—	
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—		—	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—		—	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—		—	

NOTES:

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REVISIONS

NO.	DATE	CHKD.	APPD.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA. 3438+00 TO 3494+00

ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 6/1/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
PITTSBURGH, PA 15317
724-873-3545

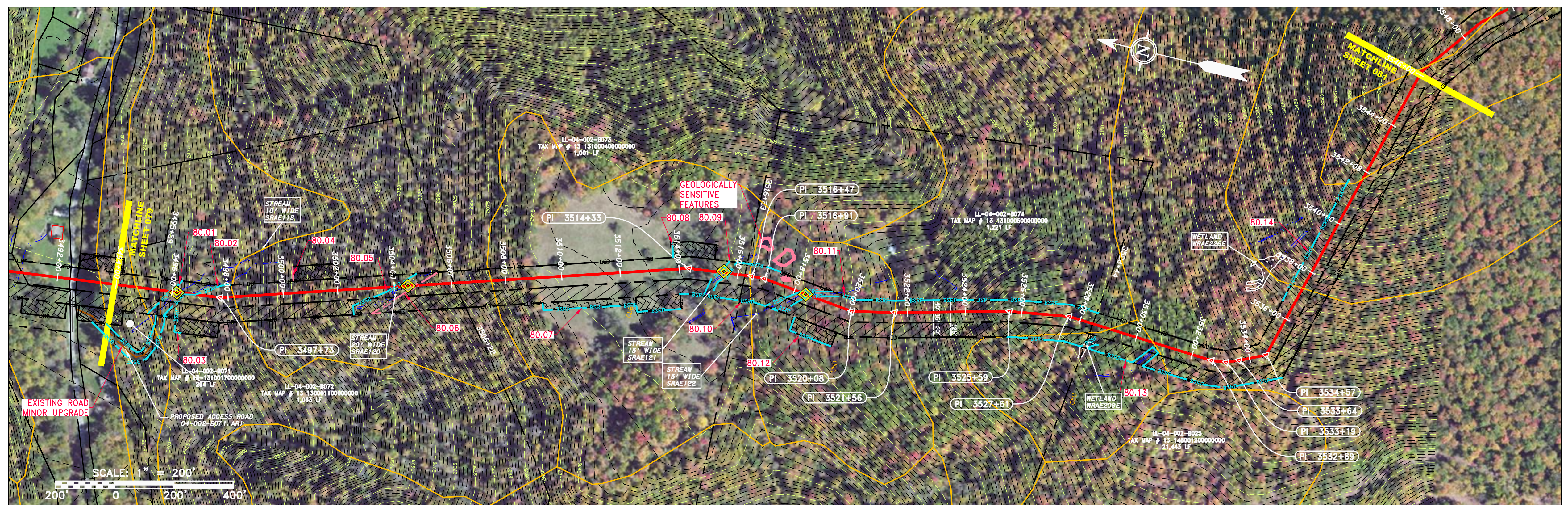
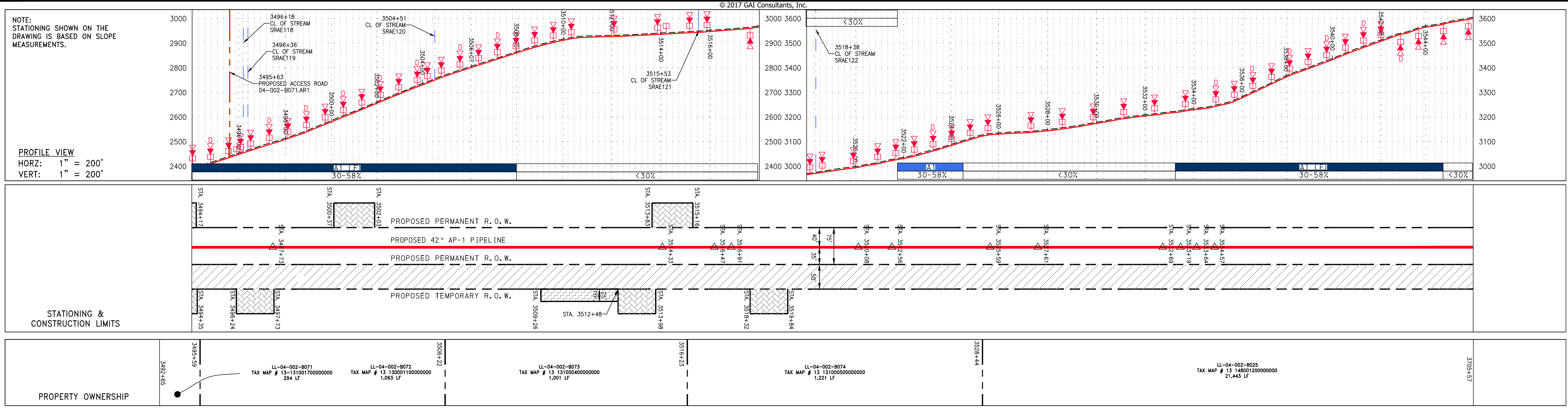
mbe monaloh basin engineers

300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO. 140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E079
079 OF 344

6/1/2017 1:47 PM

J:\2665 - GAI WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_80.DWG



PIPE SPECIFICATION

STRING VIEW BAND

LEGEND

—	PROPERTY LINE	—	STORM SEWER	▭	EXTRA WORK SPACE	▭	TOPSOIL SEGREGATION AREA	▴	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE
-X-X-	FENCE	—	UNDERGROUND ELECTRIC	▭	AREA OF NO DISTURBANCE	▭	PROPOSED TEMPORARY R.O.W.	▭	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
—	STREAM	—	WATER LINE	▭	WETLAND	▭	UTILITY POLE	▭	TRENCH BREAKER/PLUG	—	SSF	—	SUPER SILT FENCE
-G-G-	EXISTING GAS PIPELINE	—	SANITARY SEWER	▭	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	▭		▭	TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET	—	111.03	—	COMPOST FILTER SOCK
-OH-	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	▭		▭		▭	SEEP	—	111.03	—	SEDIMENT BARRIER IDENTIFICATION
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	▭		▭		▭	CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED	—	111.03	—	ORANGE SAFETY FENCE
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▭		▭		▭	CULVERT/ WATERBAR	—	111.03	—	ROADSIDE DITCH

NOTES:

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REVISIONS

NO.	DATE	CHKD.	APPD.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA. 3494+00 TO 3546+00

ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 6/1/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

mbe monaloh basin engineers

300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.
140468

TASK NO.	SUB TASK NO.
005	00

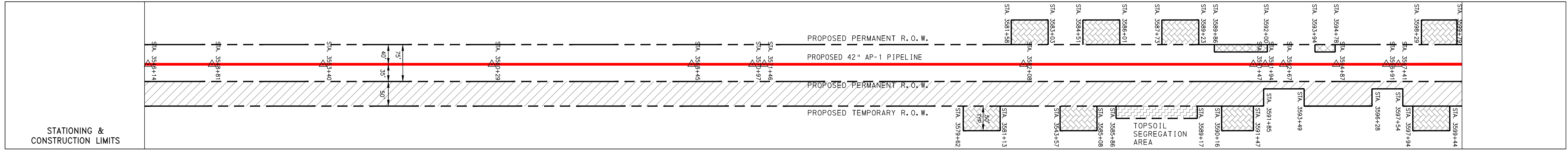
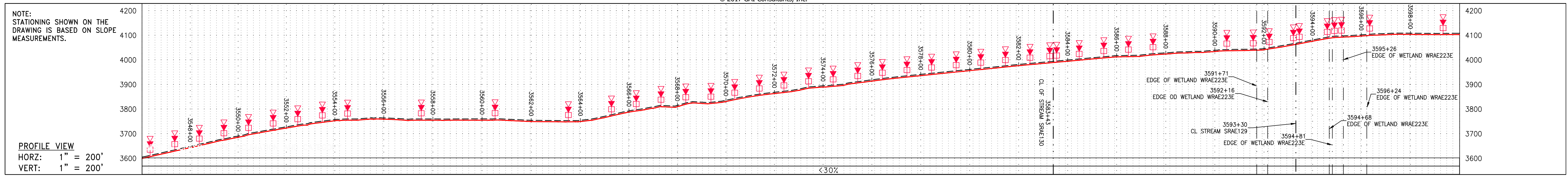
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6/1/2017 1:42 PM

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_81.DWG

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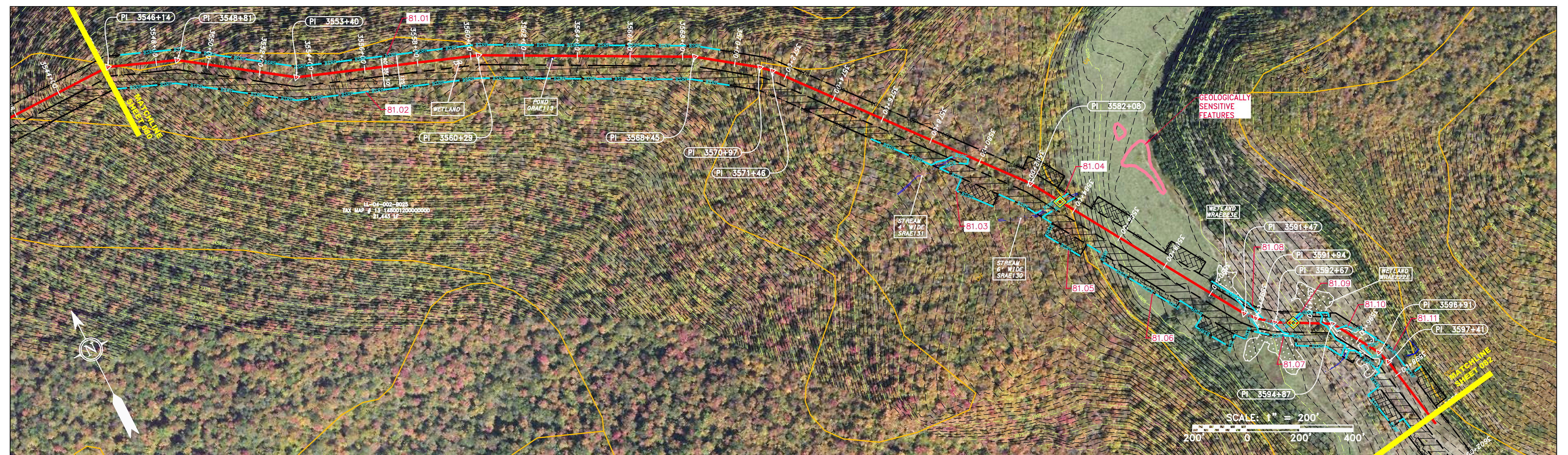


PROPERTY OWNERSHIP

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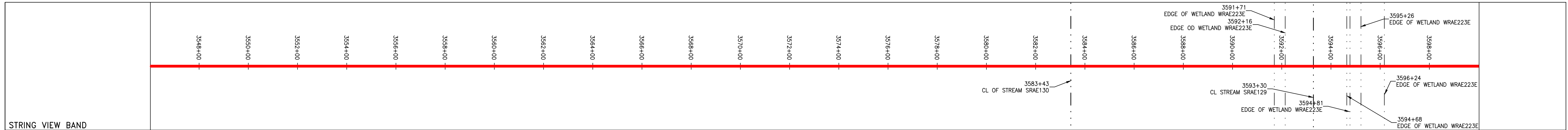
3528+44

3705+57



PIPE SPECIFICATION

3546+00	3550+00	3552+00	3554+00	3556+00	3558+00	3560+00	3562+00	3564+00	3566+00	3568+00	3570+00	3572+00	3574+00	3576+00	3578+00	3580+00	3582+00	3584+00	3586+00	3588+00	3590+00	3592+00	3594+00	3596+00	3598+00	3600+00
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LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
X-X	FENCE	E	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
G-G	EXISTING GAS PIPELINE	W	WATER LINE	—	WETLAND	—	UTILITY POLE
OH	OVERHEAD UTILITY LINES	SAN	SANITARY SEWER	—	(COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	
—	ACCESS ROAD	—	EDGE OF GRAVEL	—		—	
—	PROPOSED PERMANENT EASEMENT	—	PROPOSED PERMANENT R.O.W.	—		—	
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—		—		—	

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REVISIONS

NO.	DATE	CHKD.	APPROV.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA. 3546+00 TO 3600+00

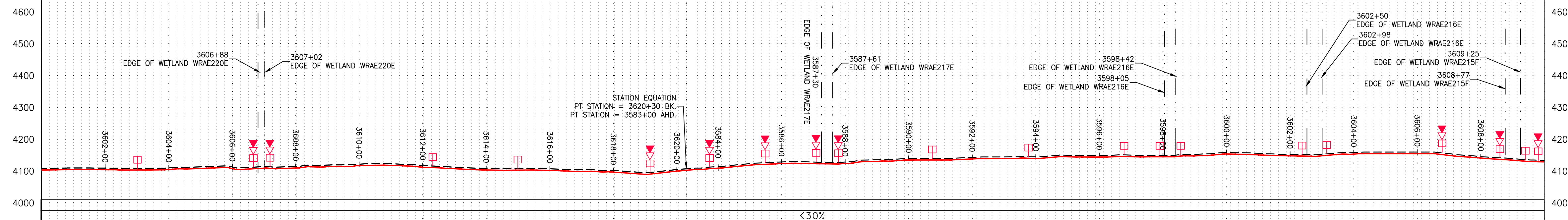
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
RANDOLPH COUNTY, WEST VIRGINIA
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 6/1/17
DRAWN: TJM
CHECKED: DLH
APPROVED: NET

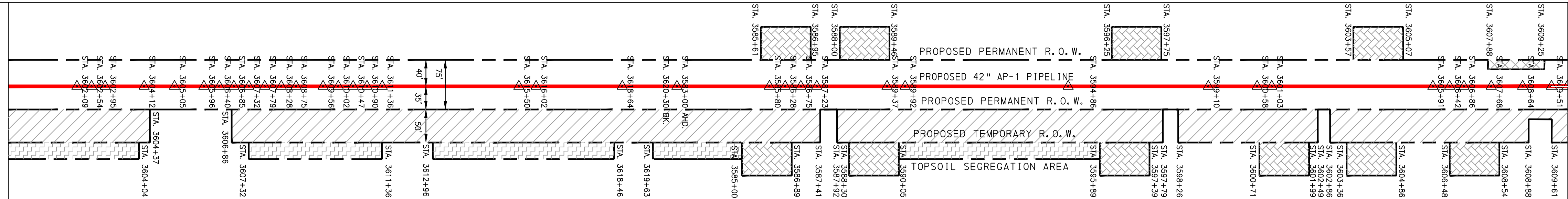
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TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E081
081 OF 344

NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

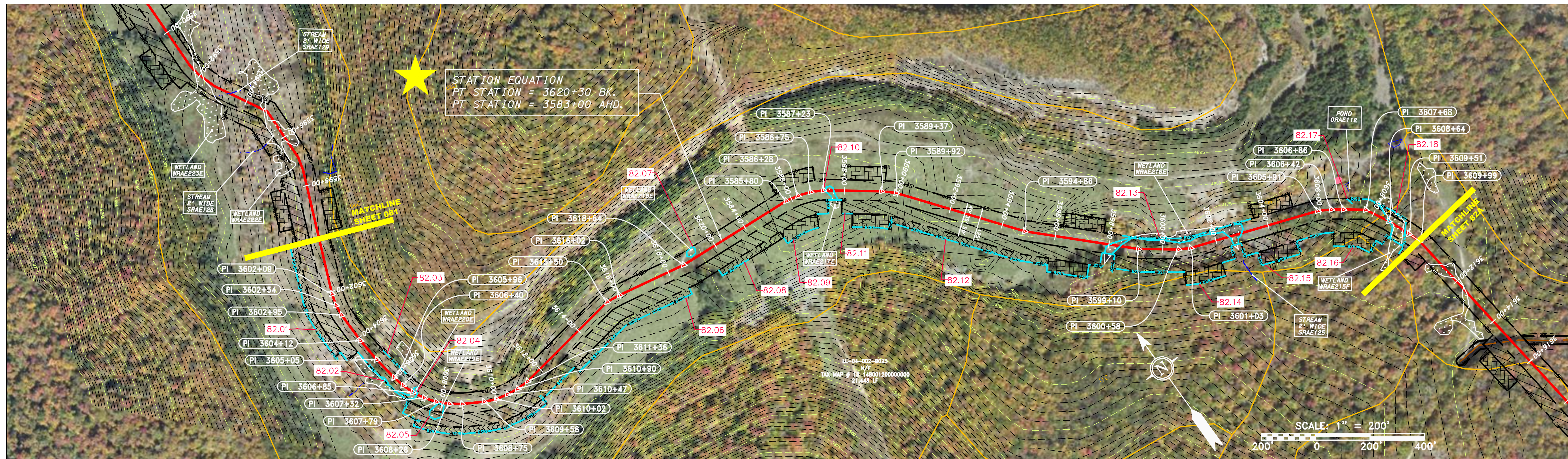
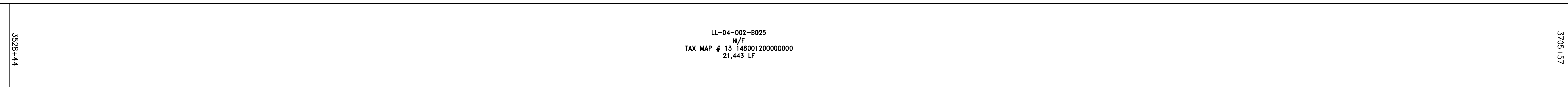
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



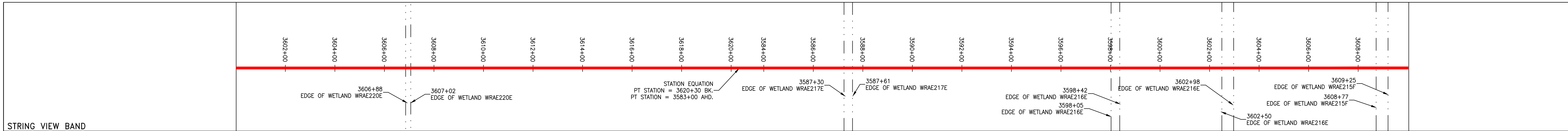
STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



PIPE SPECIFICATION



LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
-X-X-	FENCE	E	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	UTILITY POLE
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-OH-	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—	—	—	—
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	—	—	—
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	—	—	—

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NO.	DATE	CHKD.	APPROV.	DESCRIPTION

CONSTRUCTION ALIGNMENT STA. 3600+00 TO 3610+00
RANDOLPH COUNTY, WEST VIRGINIA

ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	6/1/17
DRAWN:	RLM
CHECKED:	DLH
APPROVED:	NET

gai consultants

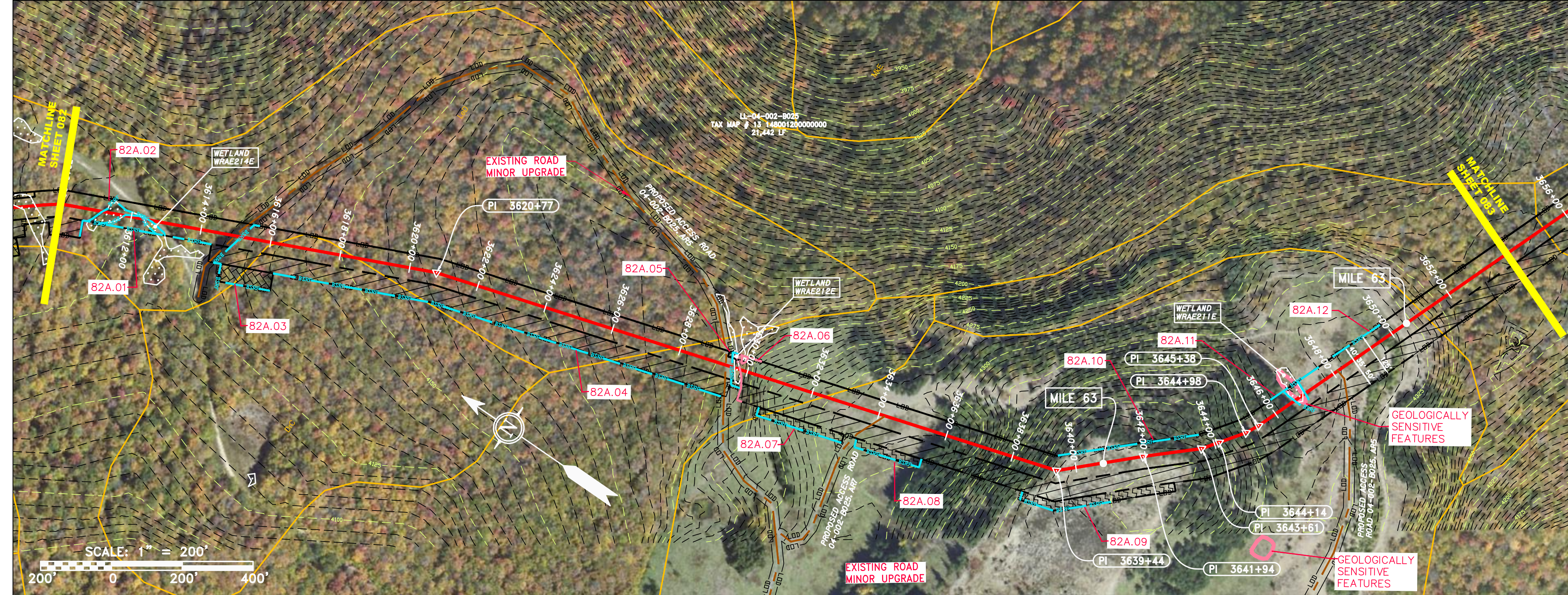
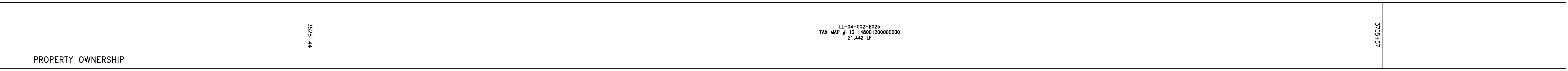
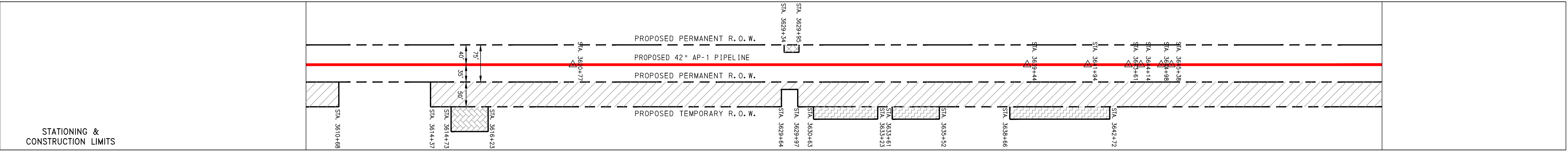
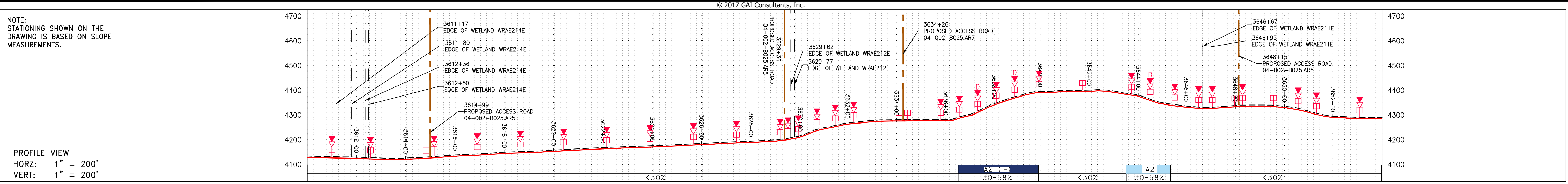
SOUTHPOINT OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

mbe
monahon basin
engineers

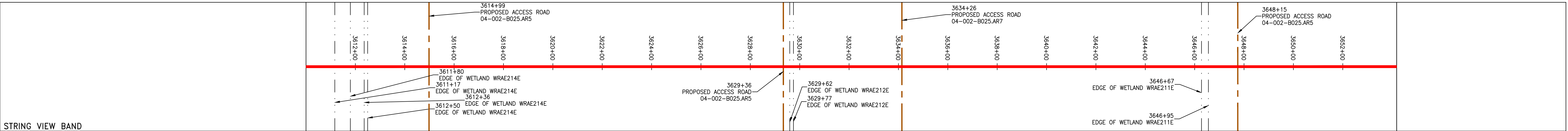
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E082
082	OF	344

J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_82.DWG



PIPE SPECIFICATION



LEGEND

— X — X — FENCE	— E — UNDERGROUND ELECTRIC	— W — WATER LINE	— SAN — SANITARY SEWER	— OH — OVERHEAD UTILITY LINES	— ACCESS ROAD	— PROPOSED GAS PIPELINE	— PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— STORM SEWER	— WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	— PROPOSED PERMANENT EASEMENT	— PROPOSED PERMANENT R.O.W.	— PROPOSED TEMPORARY R.O.W.	— UTILITY POLE	— LIMIT OF DISTURBANCE	— BELTED SILT RETENTION FENCE (BSRF)	— SUPER SILT FENCE	— COMPOST FILTER SOCK	— SEDIMENT BARRIER IDENTIFICATION	— ORANGE SAFETY FENCE	— ROADSIDE DITCH	— SOIL TYPE	— TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
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NOTES:

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REVISIONS

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA. 3610+00 TO 3654+00
RANOLPH COUNTY, WEST VIRGINIA

ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 6/1/17
DRAWN: TJM
CHECKED: DLH
APPROVED: NET

gai consultants

SOUTHPOINT OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-873-3545

mbe monaloh basin engineers

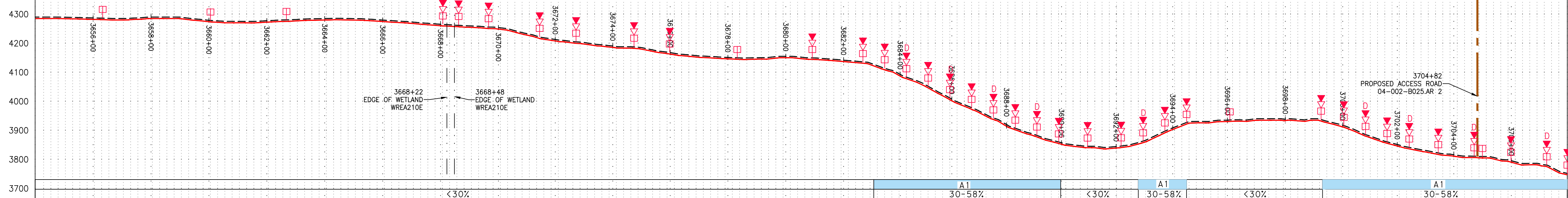
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO. 140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E082A
082A OF 344

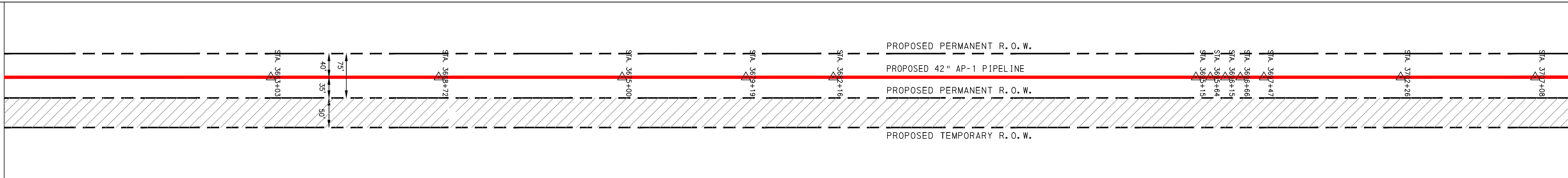
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NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

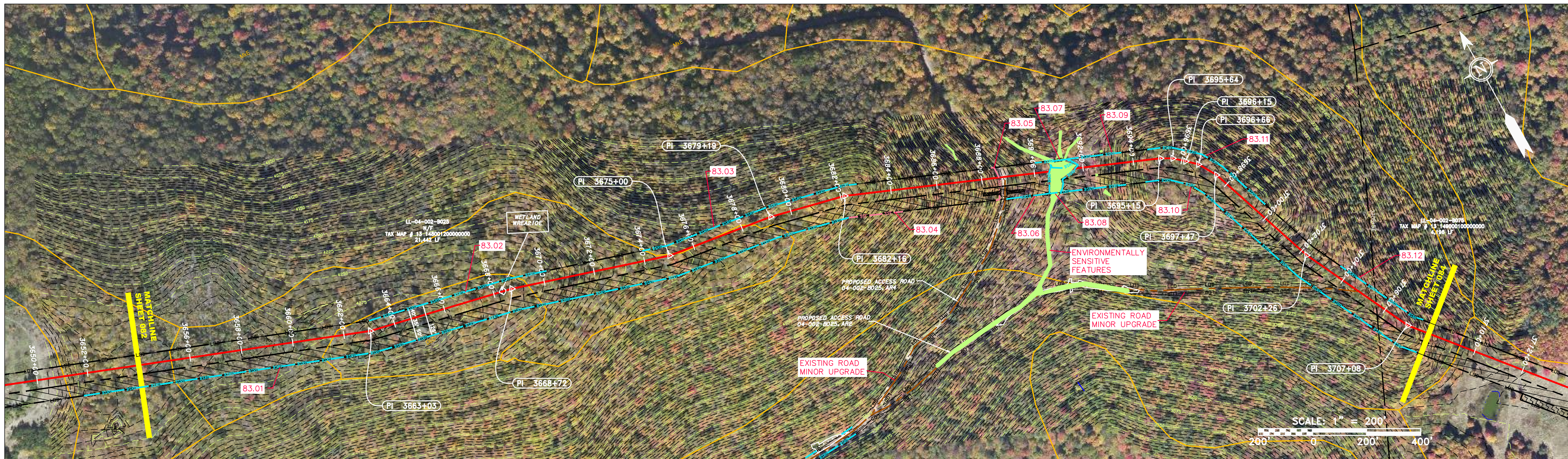
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



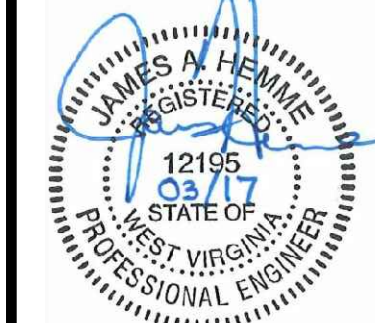
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



NO.	DATE	CHKD.	APPROV.	DESCRIPTION



CONSTRUCTION ALIGNMENT STA. 3654+00 TO 3708+00
 ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: RDC
 CHECKED: DLH
 APPROVED: NET



SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLVD.
 CANONSBURG, PA 15317
 724-273-3545



300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

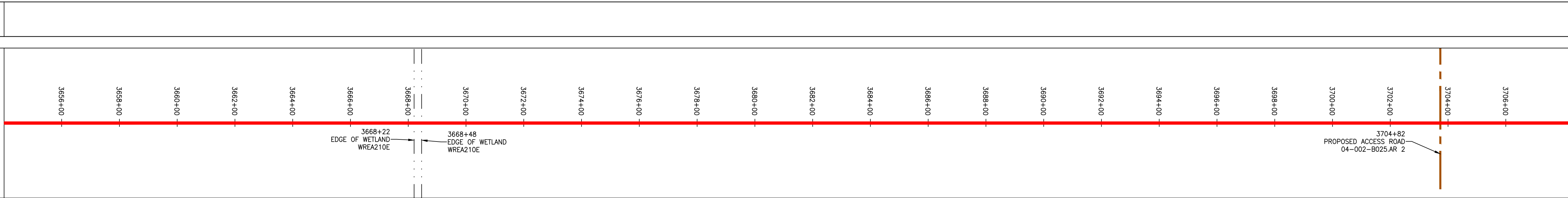
PROJECT NO./DASH NO.
 140468

TASK NO. SUB TASK NO.
 005 00

GROUP ID DRAWING NO.
 D E083

083 OF 344

PIPE SPECIFICATION



STRING VIEW BAND

LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
X-X	FENCE	E	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	STREAM	W	WATER LINE	—	WETLAND	—	UTILITY POLE
G-G	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	—	(COLOR SHOWN TO PROVIDE CLARITY ONLY)	—	
OH	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	—		—	
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—		—	
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—		—	

▲	PERMANENT WATERBAR/SLOPE BREAKER	—	LOD	—	LIMIT OF DISTURBANCE
▲	TEMPORARY WATERBAR/SLOPE BREAKER	—	BSRF	—	BELTED SILT RETENTION FENCE (BSRF)
▲	TRENCH BREAKER/PLUG	—	SSF	—	SUPER SILT FENCE
▲	TRENCH BREAKER/PLUG BLEEDER	—	—	—	COMPOST FILTER SOCK
▲	DRAIN AND OUTLET	—	—	—	SEDIMENT BARRIER IDENTIFICATION
▲	STREAM CROSSING	—	—	—	ORANGE SAFETY FENCE
▲	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	—	—	ROADSIDE DITCH
▲	SEEP	—	—	—	SOIL TYPE
▲	CONSTRUCTION ENTRANCE WITH DITCH	—	—	—	TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION
▲	CULVERT/WATERBAR	—	—	—	

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J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\1 - REROUTE 1A\ALIGNMENT SHEETS\2665-02_SPREAD_1A_SHEET_83.DWG

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