

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

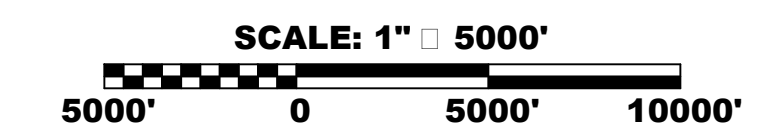
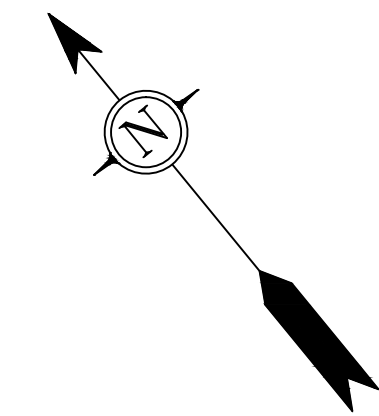
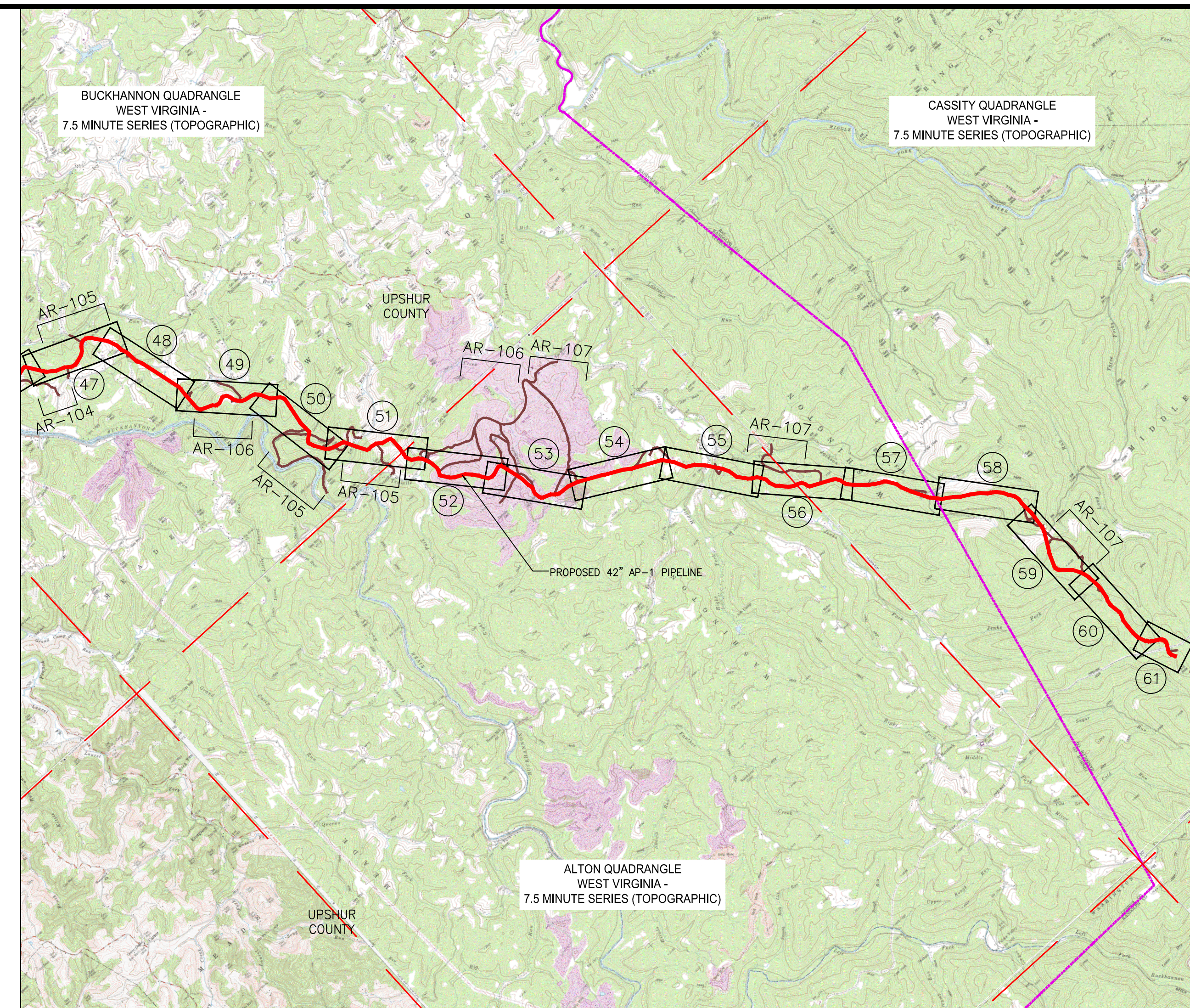
LEGEND

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

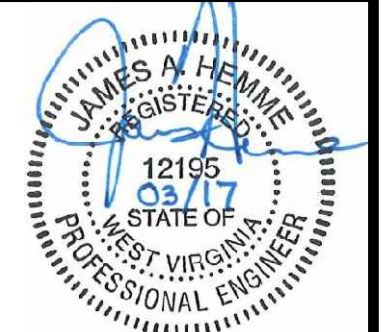
SPREAD 2-1 PIPELINE DRAWING INDEX	
SHEET NO.	REV. SHEET TITLE
1-2	INTENTIONALLY LEFT BLANK
3	COVER SHEET
4-46	INTENTIONALLY LEFT BLANK
47	CONSTRUCTION ALIGNMENT (STA 1680+00 TO 1736+00)
48	CONSTRUCTION ALIGNMENT (STA 1736+00 TO 1792+00)
49	CONSTRUCTION ALIGNMENT (STA 1792+00 TO 1848+00)
50	CONSTRUCTION ALIGNMENT (STA 1848+00 TO 1904+00)
51	CONSTRUCTION ALIGNMENT (STA 1904+00 TO 1960+00)
52	CONSTRUCTION ALIGNMENT (STA 1960+00 TO 2016+00)
53	CONSTRUCTION ALIGNMENT (STA 2016+00 TO 2072+00)

SPREAD 2-1 PIPELINE DRAWING INDEX	
SHEET NO.	REV. SHEET TITLE
54	CONSTRUCTION ALIGNMENT (STA 2072+00 TO 2128+00)
55	CONSTRUCTION ALIGNMENT (STA 2128+00 TO 2184+00)
56	CONSTRUCTION ALIGNMENT (STA 2184+00 TO 2240+00)
57	CONSTRUCTION ALIGNMENT (STA 2240+00 TO 2296+00)
58	CONSTRUCTION ALIGNMENT (STA 2296+00 TO 2352+00)
59	CONSTRUCTION ALIGNMENT (STA 2352+00 TO 2408+00)
60	CONSTRUCTION ALIGNMENT (STA 2408+00 TO 2464+00)
61	CONSTRUCTION ALIGNMENT (STA 2464+00 TO 2482+00)

ATLANTIC COAST PIPELINE PROJECT - 42" SPREAD 2-1



NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION



42" SPREAD 2-1 PIPELINE
E & S CONTROLS COVER SHEET
UPSHUR & RANDOLPH COUNTIES, WEST VIRGINIA

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

SCALE:	AS SHOWN
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

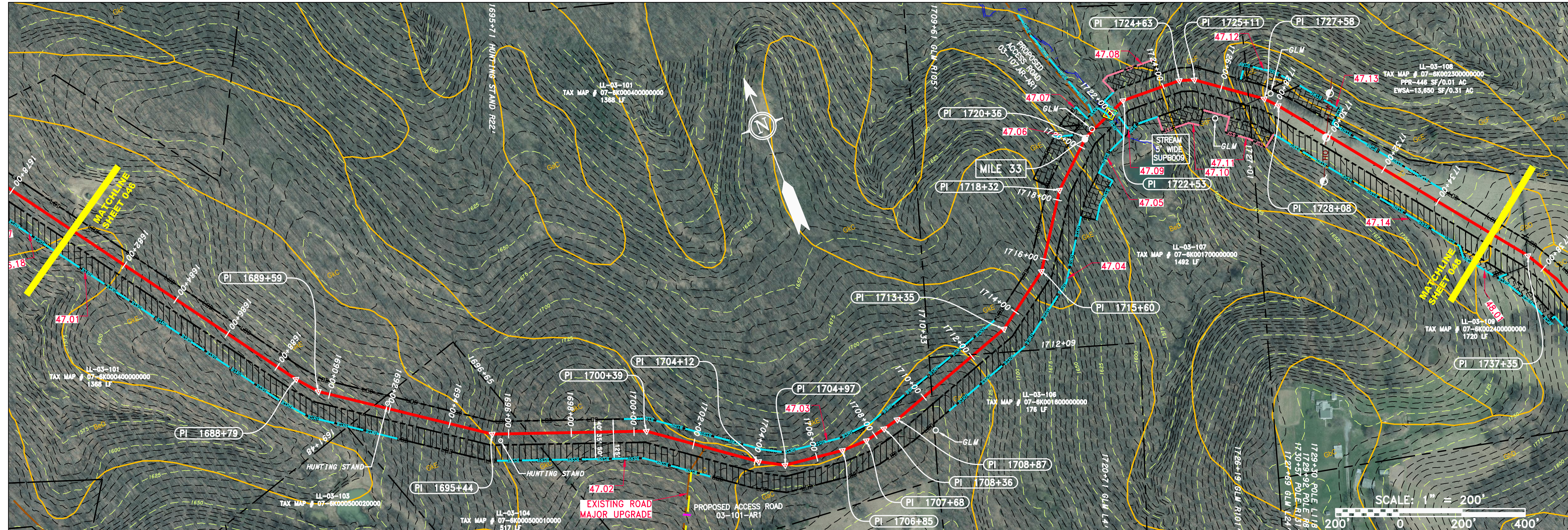
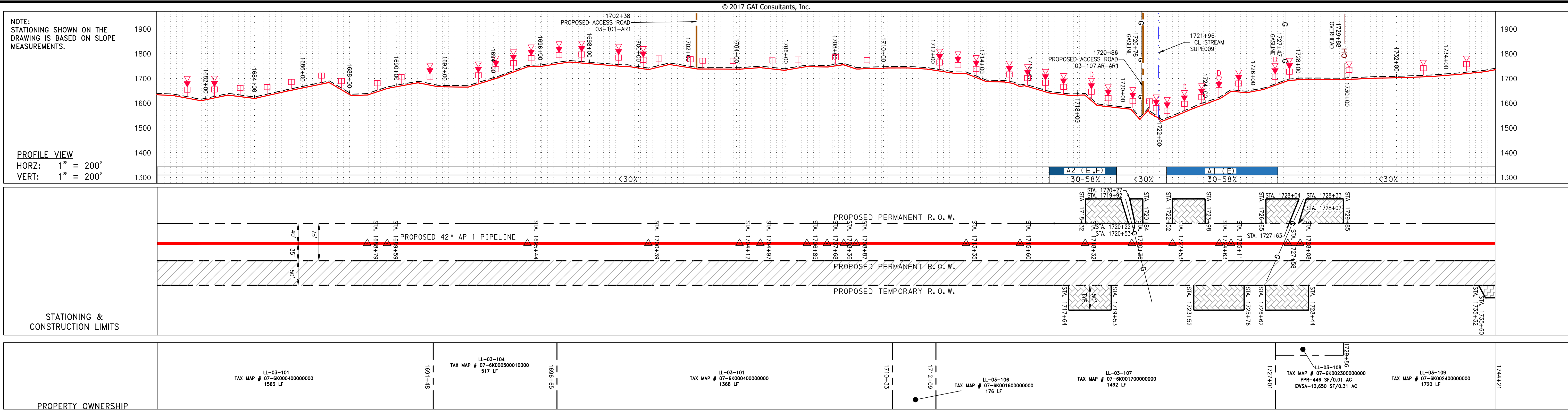
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

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TASK NO. SUB TASK NO.	005
GROUP ID DRAWING NO.	D E003
003 OF 61	

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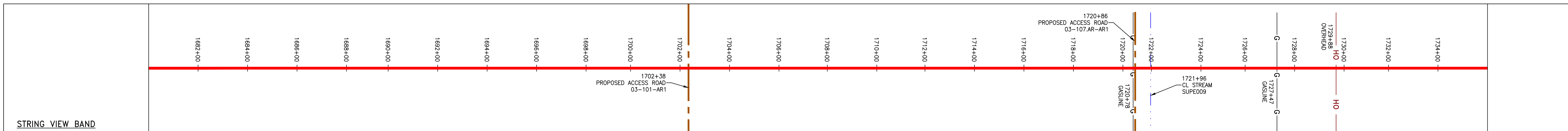
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J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (47).DWG



PIPE SPECIFICATION

1682+00	1684+00	1686+00	1688+00	1690+00	1692+00	1694+00	1696+00	1698+00	1700+00	1702+00	1704+00	1706+00	1708+00	1710+00	1712+00	1714+00	1716+00	1718+00	1720+00	1722+00	1724+00	1726+00	1728+00	1730+00	1732+00	1734+00
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LEGEND

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER	NOTES: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	TEMPORARY WATERBAR/SLOPE BREAKER
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	TRENCH BREAKER/PUG	TRENCH BREAKER/PUG BLEEDER DRAIN AND OUTLET
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	STREAM CROSSING	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
		CONSTRUCTION ENTRANCE WITH DITCH	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.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- 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 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.

REVISIONS

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

ERM

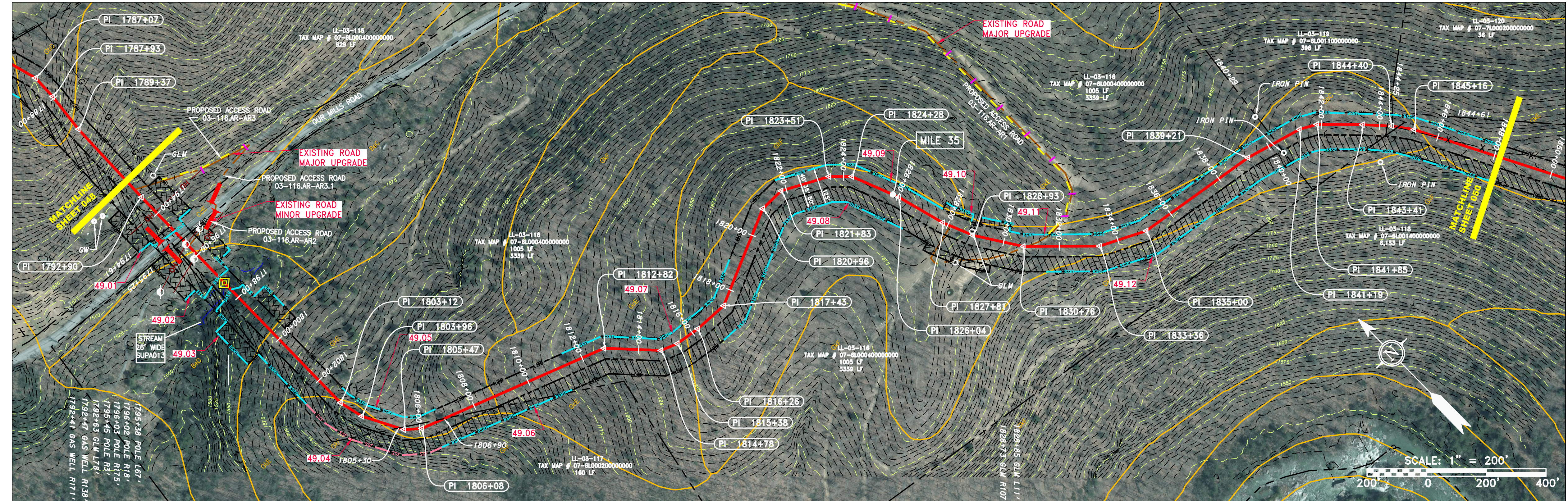
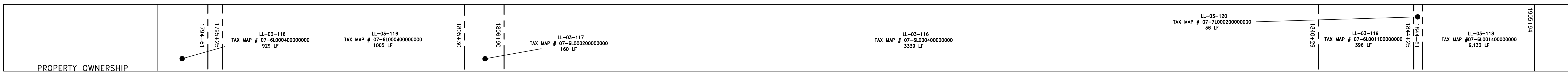
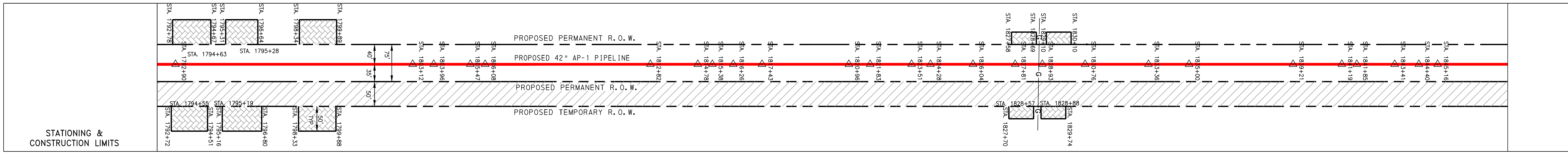
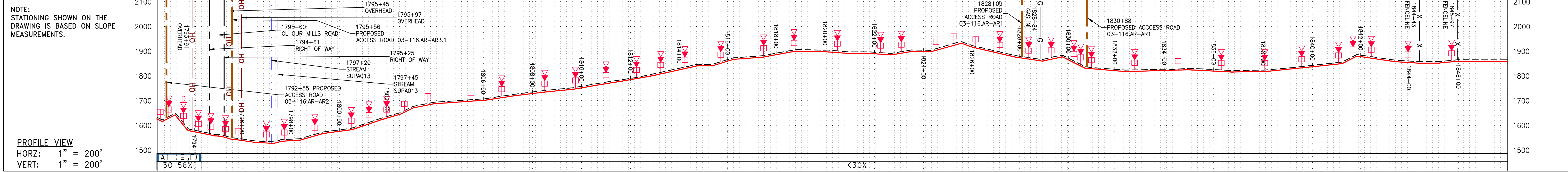
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

CONSTRUCTION ALIGNMENT STA 1680+00 TO 1736+00
UPSHUR COUNTY, WEST VIRGINIA

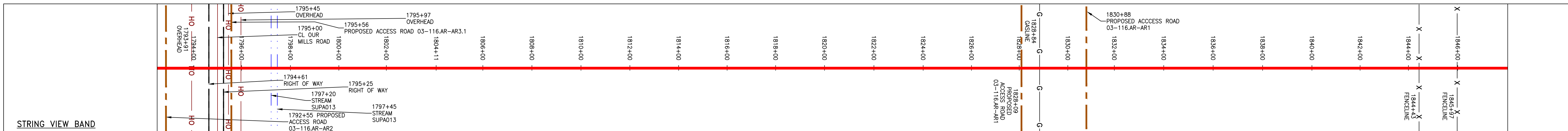
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DATE: 5/31/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET

PROJECT NO./DASH NO. 140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E047
047 OF 344

5/31/2017 3:26 PM



PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> — X — X — PROPERTY LINE — — — FENCE — G — G — EXISTING GAS PIPELINE — OH — OVERHEAD UTILITY LINES — — — ACCESS ROAD — — — PROPOSED GAS PIPELINE — E — STORM SEWER — W — UNDERGROUND ELECTRIC — — — WATER LINE — SAN — SANITARY SEWER — — — EDGE OF GRAVEL — — — PROPOSED PERMANENT EASEMENT — — — PROPOSED GAS PIPELINE (NO GROUND SURVEY) — — — EXTRA WORK SPACE — — — AREA OF NO DISTURBANCE — — — WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) — — — TOPSOIL SEGREGATION AREA — — — PROPOSED TEMPORARY R.O.W. — — — UTILITY POLE 	<ul style="list-style-type: none"> ▲ 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 — SLEEP — CONSTRUCTION ENTRANCE WITH DITCH — CULVERT AS NEEDED — CULVERT WATERBAR — LOD — BSRF — SSF — 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 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 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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NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 1792+00 TO 1848+00
 UPSHUR COUNTY, WEST VIRGINIA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 5/31/17
 DRAWN: GOS
 CHECKED: DLH
 APPROVED: NET

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

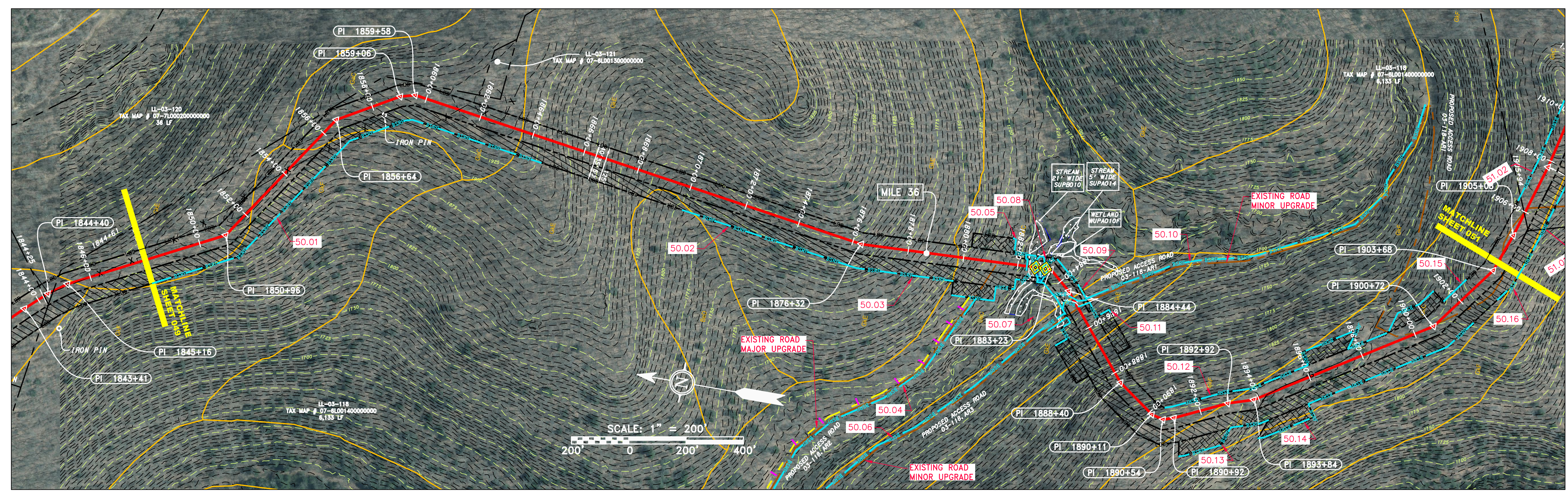
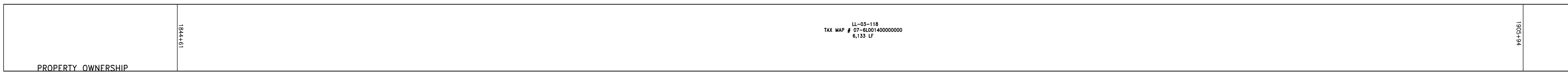
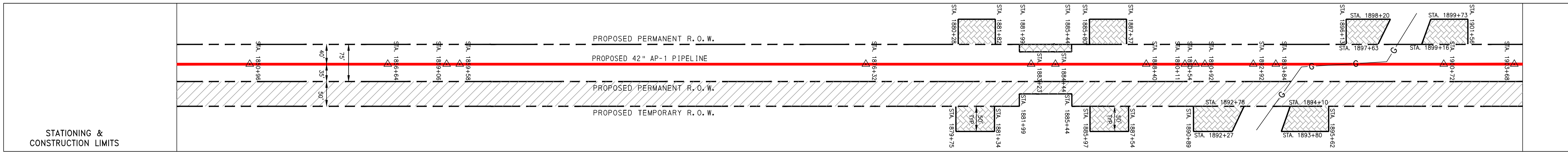
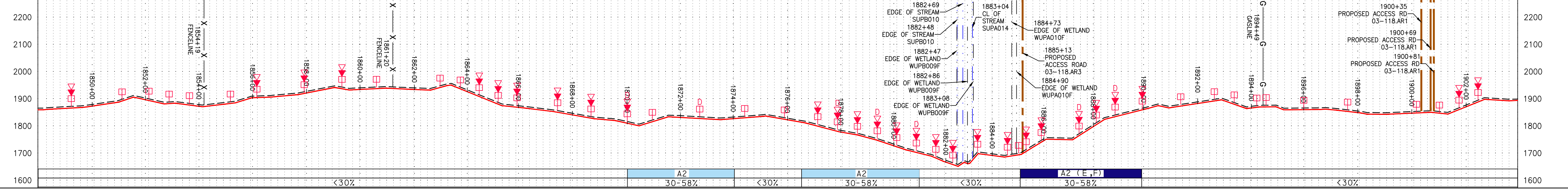
300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.
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 TASK NO. SUB TASK NO.
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 GROUP ID DRAWING NO.
 D E049
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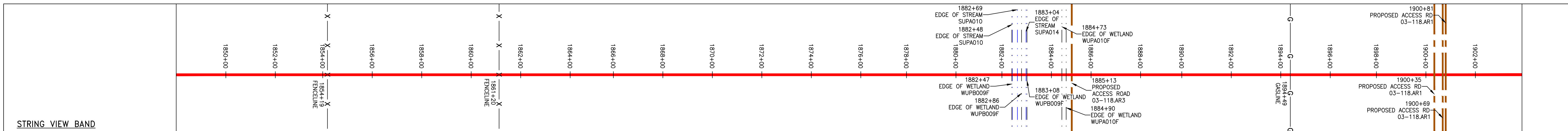
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

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



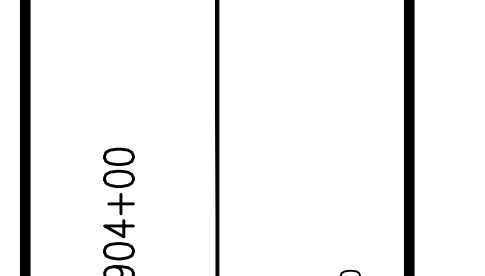
PIPE SPECIFICATION



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	— W —	UNDERGROUND ELECTRIC	— G — G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	— — — —	ACCESS ROAD	— — — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
— X — X —	FENCE	— W —	WATER LINE	— G — G —	SANITARY SEWER	— OH —	EDGE OF GRAVEL	— — — —	PROPOSED PERMANENT EASEMENT	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.
— G — G —	STREAM	— OH —	EDGE OF GRAVEL	— — — —	PROPOSED PERMANENT EASEMENT	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.
— OH —	OVERHEAD UTILITY LINES	— — — —	PROPOSED PERMANENT EASEMENT	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.	— — — —	PROPOSED PERMANENT R.O.W.
— — — —	ACCESS ROAD	— — — —	PROPOSED PERMANENT EASEMENT	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.	— — — —	PROPOSED PERMANENT R.O.W.
— — — —	PROPOSED GAS PIPELINE	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.	— — — —	PROPOSED PERMANENT R.O.W.	— — — —	PROPOSED TEMPORARY R.O.W.

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION



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

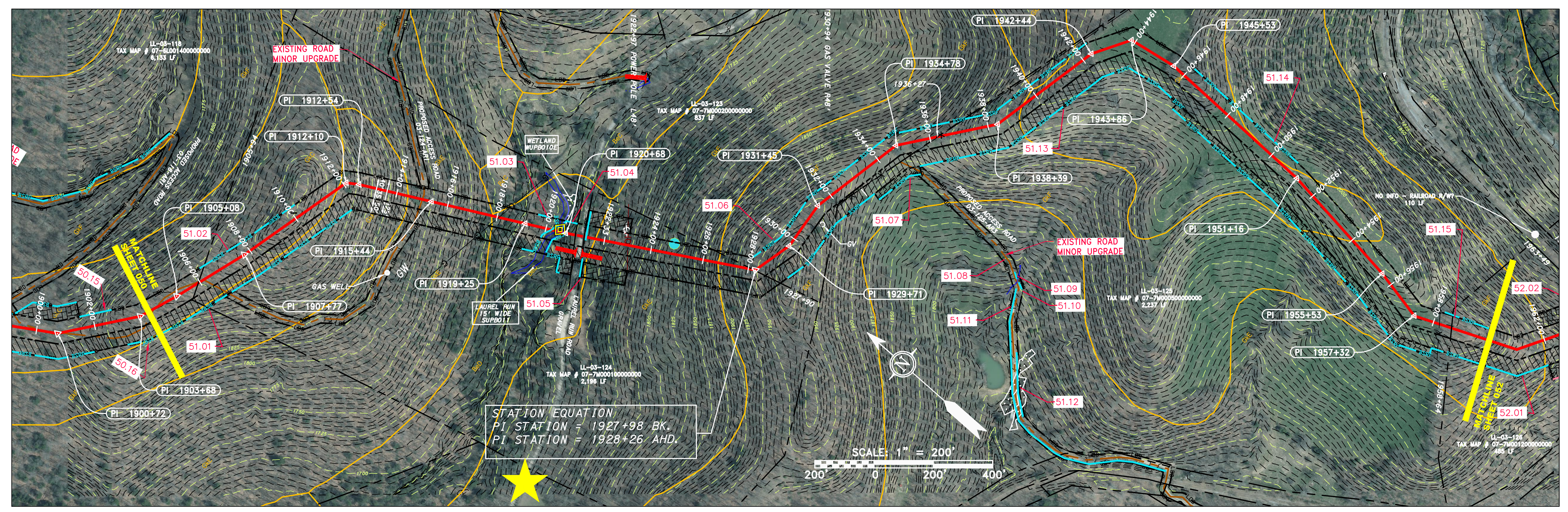
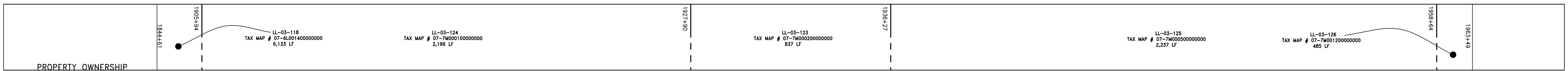
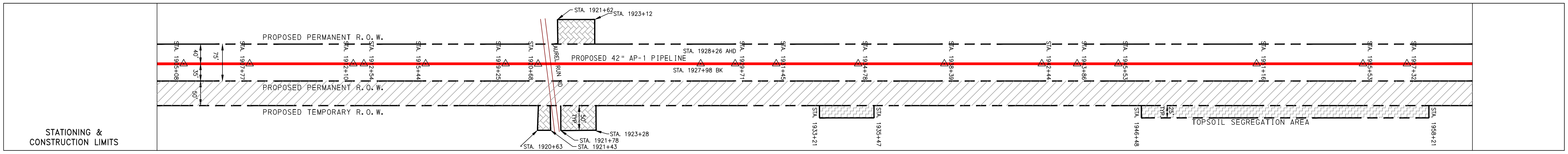
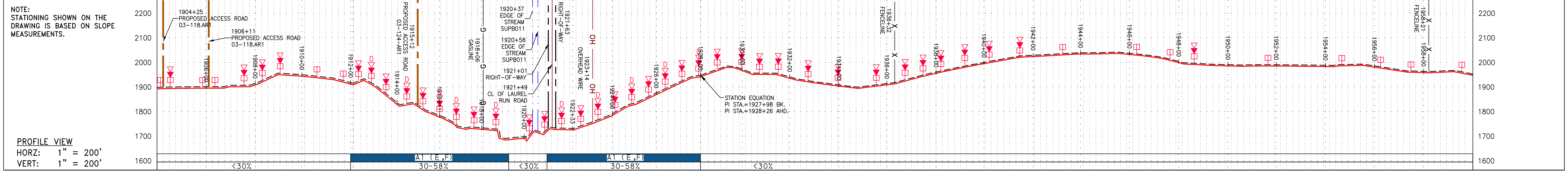
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gai consultants
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
724-788-3545

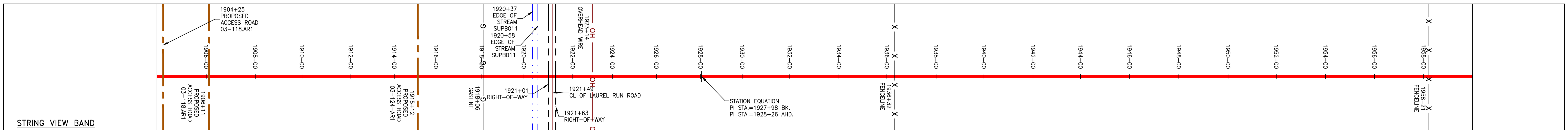
mbe monahon basin engineers
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412-788-2433

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E050
050 OF 344	

J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (50).DWG



PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> --- PROPERTY LINE -X-X- FENCE -G-G- EXISTING GAS PIPELINE -OH- OVERHEAD UTILITY LINES - - - ACCESS ROAD - - - PROPOSED GAS PIPELINE - - - PROPOSED GAS PIPELINE (NO GROUND SURVEY) -E- UNDERGROUND ELECTRIC -W- WATER LINE -SAN- SANITARY SEWER - - - EDGE OF GRAVEL - - - PROPOSED PERMANENT EASEMENT - - - PROPOSED PERMANENT R.O.W. - - - PROPOSED TEMPORARY R.O.W. WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) UTILITY POLE EXTRA WORK SPACE AREA OF NO DISTURBANCE TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. 	<ul style="list-style-type: none"> ▲ PERMANENT WATERBAR/SLOPE BREAKER ▲ TEMPORARY WATERBAR/SLOPE BREAKER ▲ TRENCH BREAKER/PLUG ▲ TRENCH BREAKER/PLUG BLEEDER ▲ DRAIN AND OUTLET ▲ STREAM CROSSING ▲ USFS WOOD CROSSING ▲ CONSTRUCTION ENTRANCE WITH DITCH ▲ CULVERT WATERBAR --- LOD --- 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. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 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 PLAN. 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 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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REVISIONS		DESCRIPTION
NO.	DATE	
CHKD.	DWN.	
APVD.		

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 1904+00 TO 1960+00
UPSHUR COUNTY, VIRGINIA

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

SCALE:	AS SHOWN
DATE:	5/31/17
DRAWN:	GOS
CHECKED:	DLH
APPROVED:	NET

gai consultants

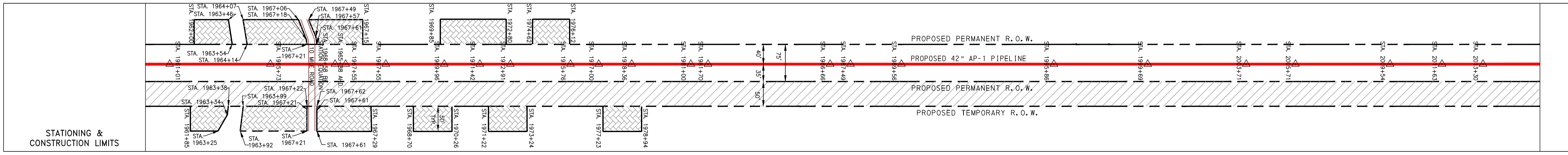
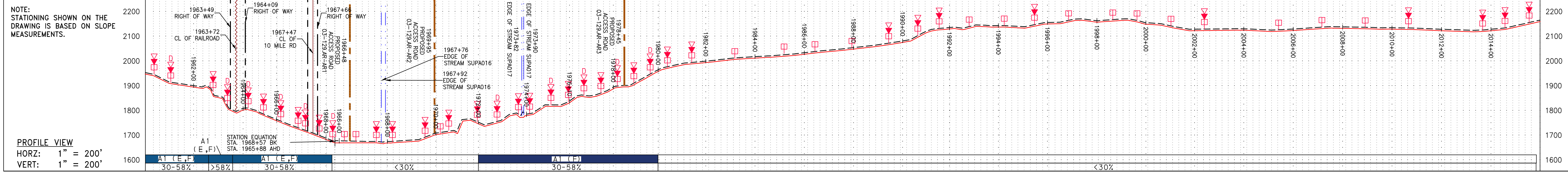
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
CANONSBURG, PA 15317
412-788-3545

mbe
monah basin
engineers

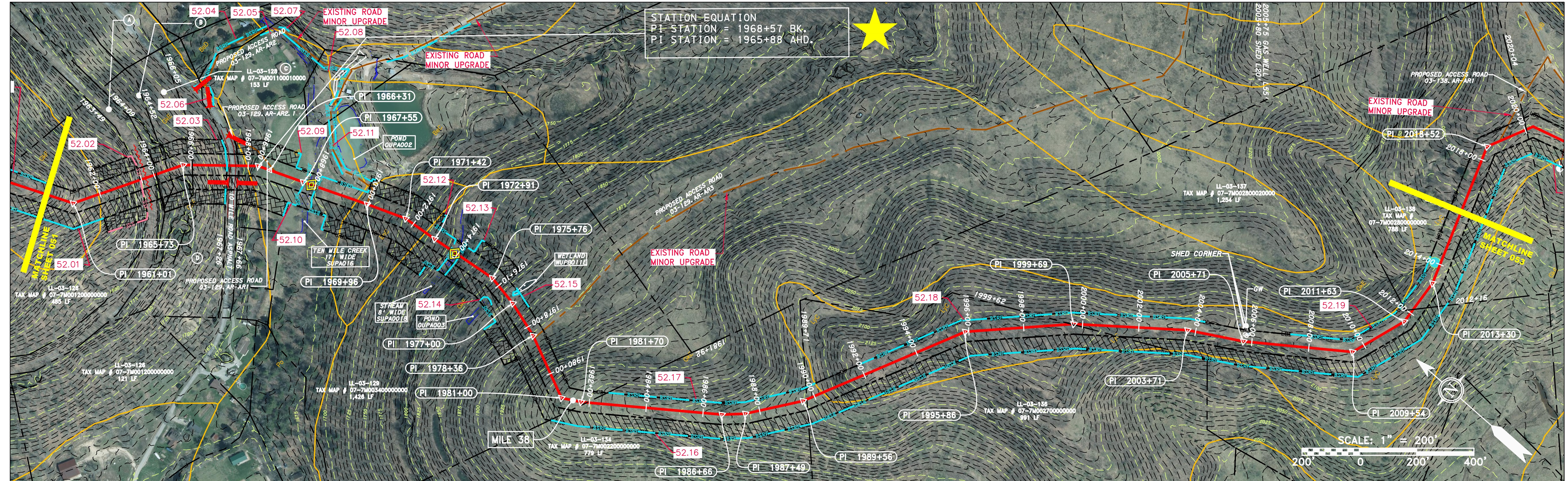
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E051
051 OF 344	

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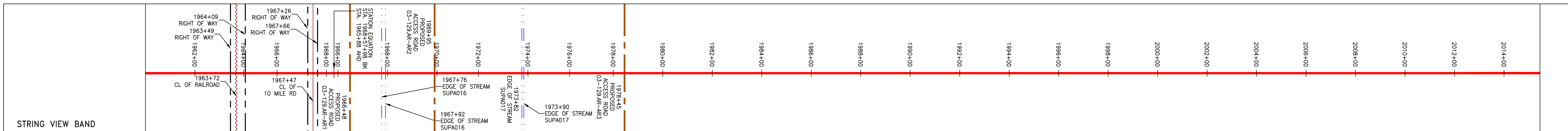


PROPERTY OWNERSHIP	ADDRESS	TAX MAP #	ACRES
LL-03-126	1963+49	07-7M001200000000	485 LF
LL-03-127	1964+00	07-7M001100010000	153 LF
LL-03-128	1964+05	07-7M001100010000	153 LF
LL-03-129	1967+26	07-7M003400000000	1,428 LF
LL-03-134	1988+40	07-7M002700000000	779 LF
LL-03-136	1999+62	07-7M002700000000	991 LF
LL-03-137	2003+00	07-7M002800000000	1,264 LF
LL-03-138	2012+00	07-7M002800000000	788 LF



- Ⓐ UNKNOWN OWNER RR RIGHT OF WAY 60 LF
- Ⓑ TAX MAP # 07-7M003900000000 43 LF
- Ⓒ TAX MAP # 07-05-128 153 LF
- Ⓓ TAX MAP # 07-7M001200000000 121 LF

PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> --- PROPERTY LINE X-X FENCE --- STREAM G-G EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES --- ACCESS ROAD --- PROPOSED GAS PIPELINE --- PROPOSED GAS PIPELINE (NO GROUND SURVEY) --- STORM SEWER --- UNDERGROUND ELECTRIC --- WATER LINE --- SANITARY SEWER --- EDGE OF GRAVEL --- PROPOSED PERMANENT EASEMENT --- PROPOSED PERMANENT R.O.W. --- TEMPORARY R.O.W. WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) UTILITY POLE 	<p>PERMANENT WATERBAR/SLOPE BREAKER</p> <p>TEMPORARY WATERBAR/SLOPE BREAKER</p> <p>TRENCH BREAKER/PLUG</p> <p>TRENCH BREAKER/PLUG BLEEDER DRAIN AND OUTLET</p> <p>STREAM CROSSING</p> <p>USFWS STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>SEEP</p> <p>CONSTRUCTION ENTRANCE WITH DITCH</p> <p>CULVERT AS NEEDED</p> <p>CULVERT WATERBAR</p> <p>LOD</p> <p>BSRF</p> <p>SSF</p> <p>111.03</p> <p>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p> <p>TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION</p>	<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. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 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 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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REVISIONS

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 1960+00 TO 2016+00
 UPSHUR 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: GOS
 CHECKED: DLH
 APPROVED: NET

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

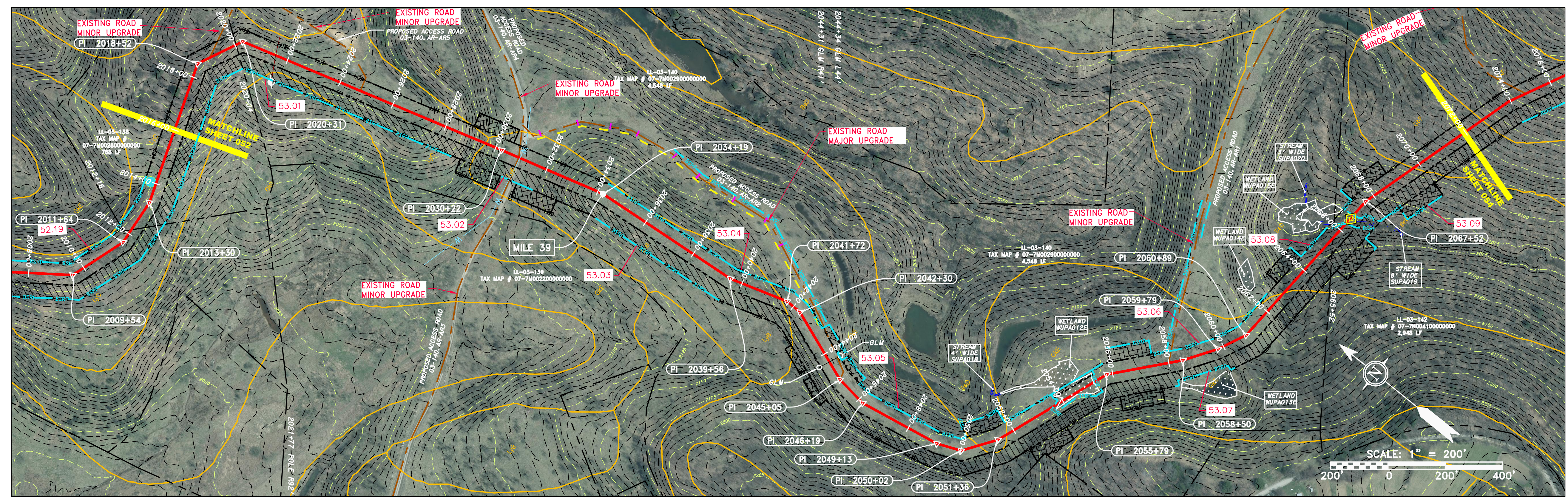
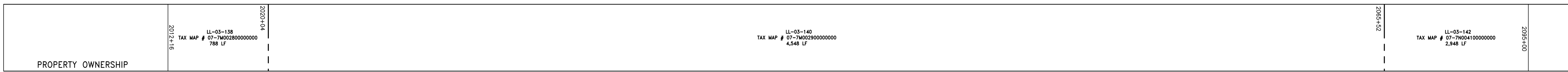
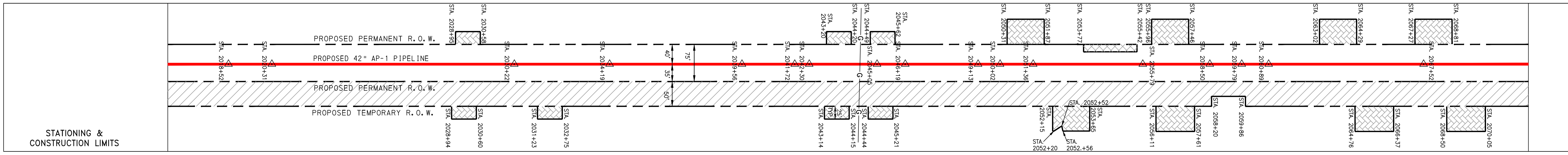
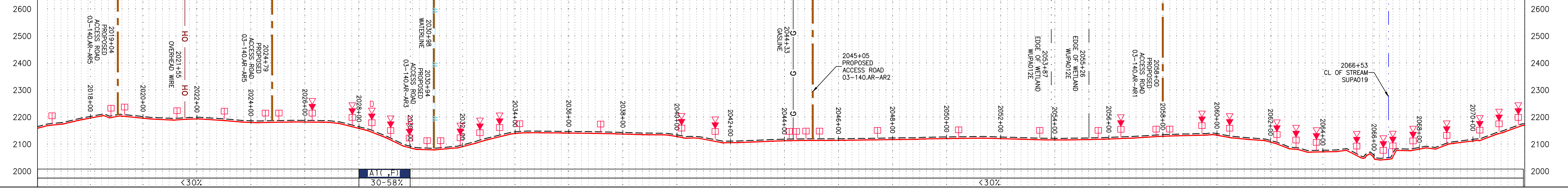
300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.
 140468
 TASK NO. SUB TASK NO.
 005 00
 GROUP ID DRAWING NO.
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 052 OF 344

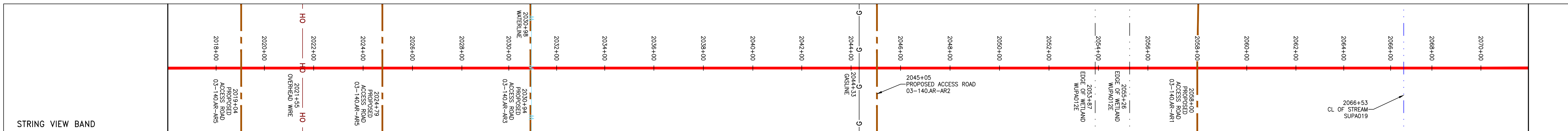
J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (52).DWG

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

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



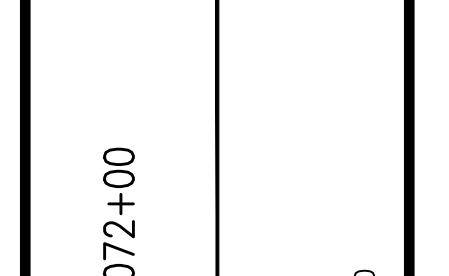
PIPE SPECIFICATION



LEGEND

Legend and Notes section containing symbols for property lines, fences, streams, gas pipelines, storm sewers, water lines, wetlands, utility poles, and various engineering notes regarding construction and safety.

REVISIONS table with columns for NO., DATE, DWN., CHKD., and APPVD.



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 2016+00 TO 2072+00
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

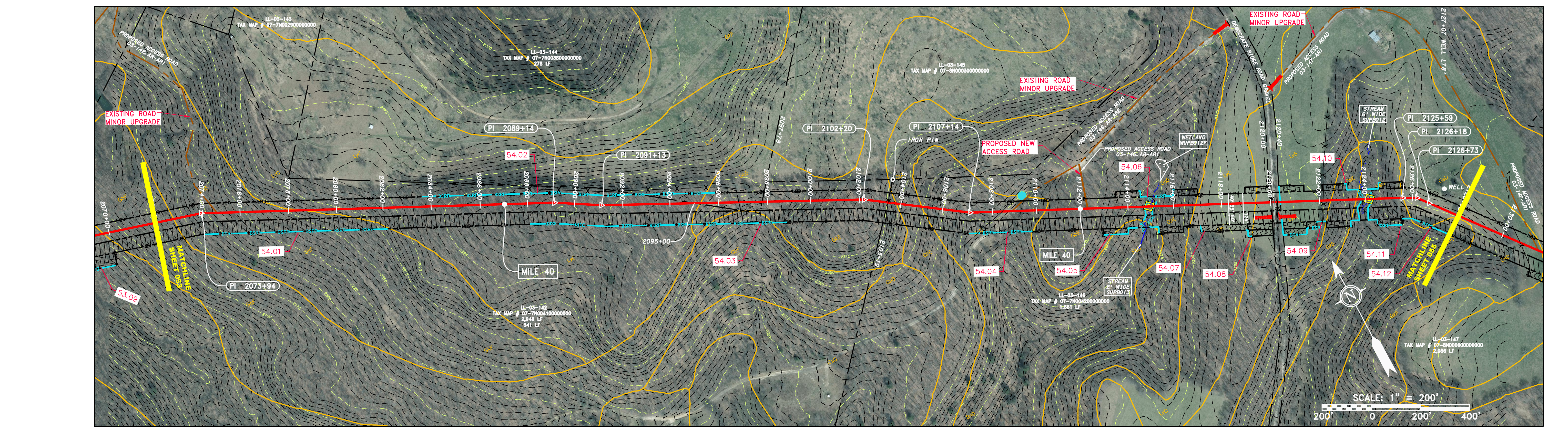
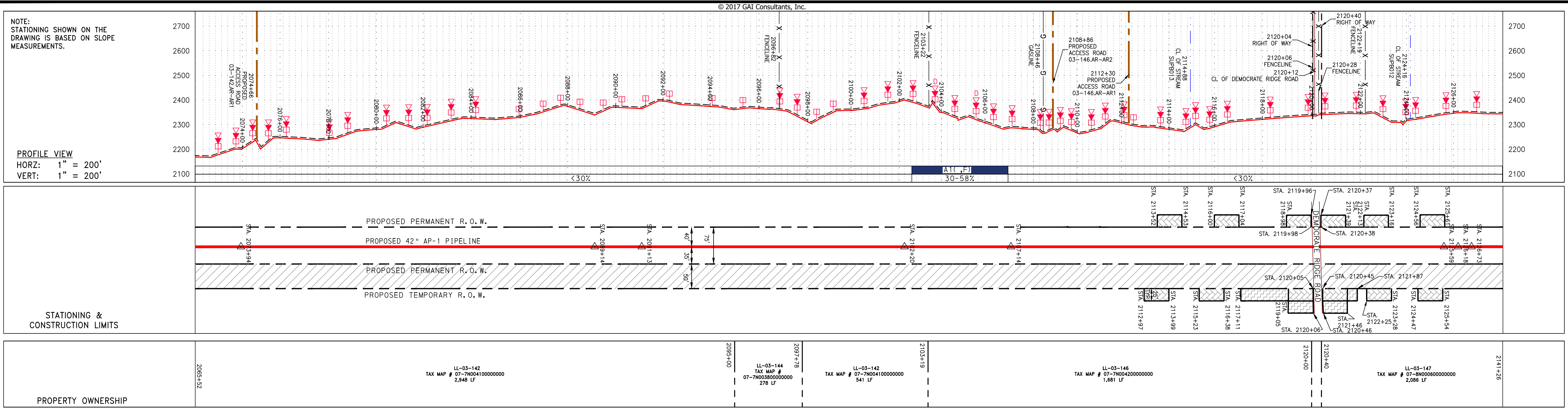
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DATE: 6/1/17
DRAWN: GOS
CHECKED: DLH
APPROVED: NET



PROJECT NO./DASH NO. 140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E053
053 OF 344

J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (53).DWG

J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (54) DWG



PIPE SPECIFICATION

AP-1 PIPELINE	42" AP-1 PIPELINE
---------------	-------------------

STRING VIEW BAND

LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	— W —	UNDERGROUND ELECTRIC	— G —	EXISTING GAS PIPELINE	— OH —	OVERHEAD UTILITY LINES	— A —	ACCESS ROAD	— P —	PROPOSED PERMANENT EASEMENT	— G —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	FENCE	—	WATER LINE	—	SANITARY SEWER	—	STREAM	—	EDGE OF GRAVEL	—	PROPOSED TEMPORARY R.O.W.	—	UTILITY POLE	—	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA	—	AREA OF NO DISTURBANCE	—	STREAM CROSSING	—	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	CONSTRUCTION ENTRANCE WITH DITCH	—	CULVERT WATERBAR	—	PERMANENT WATERBAR/SLOPE BREAKER
—	TRENCH BREAKER/PIUG	—	TEMPORARY WATERBAR/SLOPE BREAKER	—	TRENCH BREAKER/PIUG BLEEDER DRAIN AND OUTLET	—	WETLAND	—	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	—	CONSTRUCTION ENTRANCE WITH DITCH	—	CULVERT WATERBAR	—	TEMPORARY WATERBAR/SLOPE BREAKER
—	AREA OF NO DISTURBANCE	—	TOPSOIL SEGREGATION AREA	—	PROPOSED TEMPORARY R.O.W.	—	UTILITY POLE	—	WETLAND	—	CONSTRUCTION ENTRANCE WITH DITCH	—	CULVERT WATERBAR	—	TEMPORARY WATERBAR/SLOPE BREAKER

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

LEGEND

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

REVISIONS		DESCRIPTION
NO.	DATE	

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 2074+00 TO 2128+00
 UPSHUR 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: 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

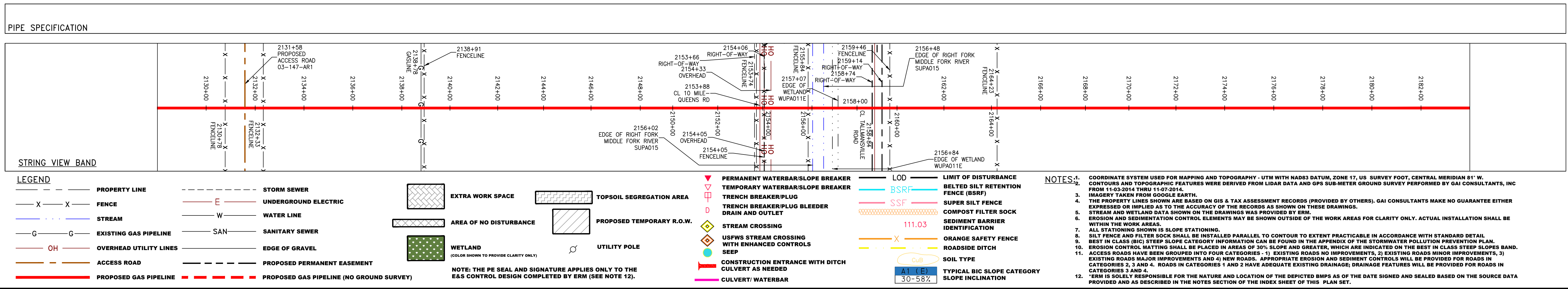
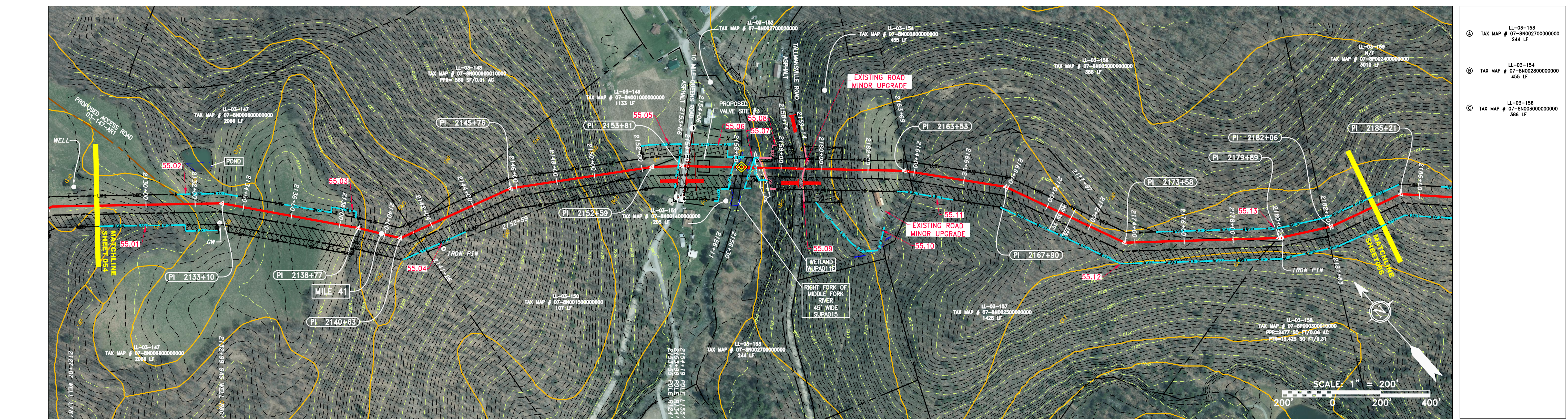
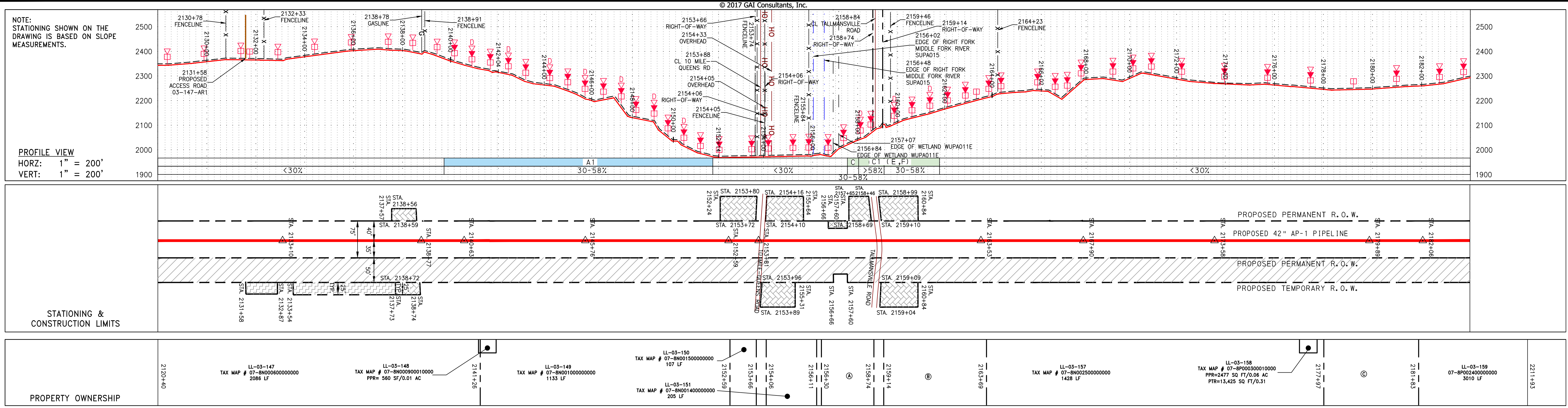
PROJECT NO./DASH NO.
 140468

TASK NO. SUB TASK NO.
 005 00

GROUP ID DRAWING NO.
 D E054

054 OF 344

6/1/2017 9:23 AM



NO.	DATE	CHKD.	APPROV.	DESCRIPTION

CONSTRUCTION ALIGNMENT STA 2128+00 TO 2184+00
42" AP-1 PIPELINE
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

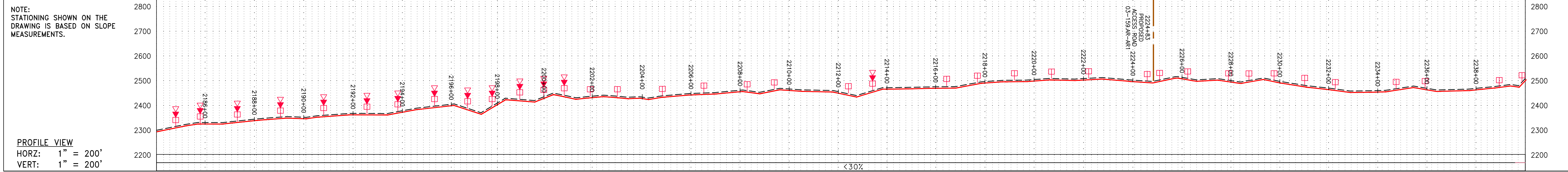
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 DATE: 6/1/17
 DRAWN: GOS
 CHECKED: DLH
 APPROVED: NET

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

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

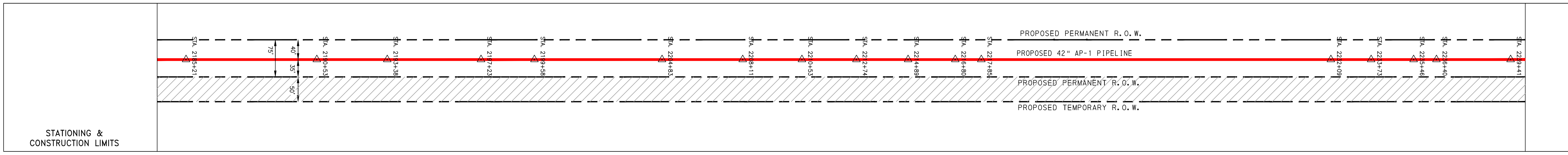
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 TASK NO. 005 SUB TASK NO. 00
 GROUP ID D DRAWING NO. E055
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J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (56).DWG

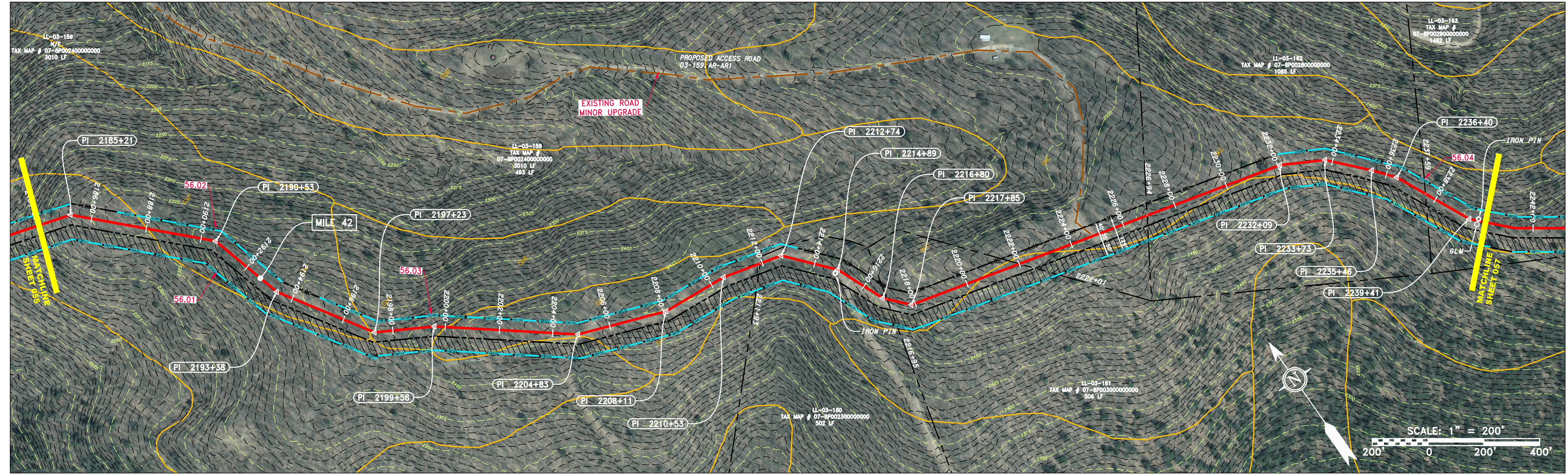


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

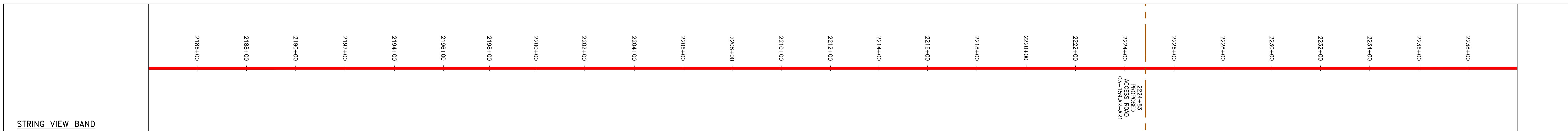
PROFILE VIEW
 HORZ: 1" = 200'
 VERT: 1" = 200'



STATIONING & CONSTRUCTION LIMITS	PROPERTY OWNERSHIP
2184+00	LL-03-159 TAX MAP # 07-8P022400000000 3010 LF
2211+93	LL-03-160 TAX MAP # 07-8P023000000000 502 LF
2216+95	LL-03-161 TAX MAP # 07-8P023000000000 506 LF
2222+01	LL-03-159 TAX MAP # 07-8P022400000000 493 LF
2226+94	LL-03-162 TAX MAP # 07-8P022800000000 1065 LF
2237+59	LL-03-163 TAX MAP # 07-8P022800000000 1462 LF
2232+21	



PIPE SPECIFICATION



LEGEND

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

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.
- 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 MAP.
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REVISIONS

NO.	DATE	DWN.	CHKD.	APPRD.	DESCRIPTION

Professional Engineer Seal: JAMES A. HAMILTON, REGISTERED PROFESSIONAL ENGINEER, STATE OF WEST VIRGINIA, No. 12195, Exp. 03/17.

ERM Logo

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA 2184+00 TO 2240+00
 UPSHUR 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:	GOS
CHECKED:	DLH
APPROVED:	NET

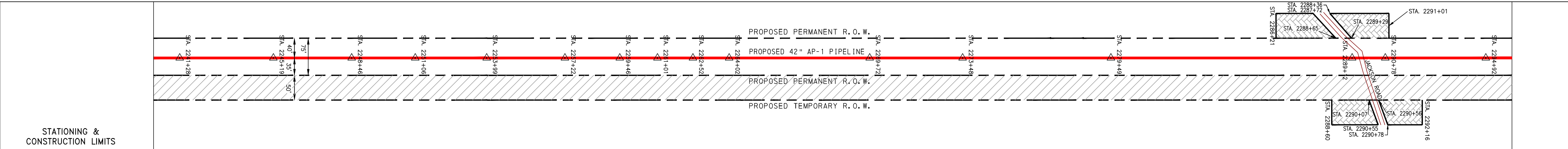
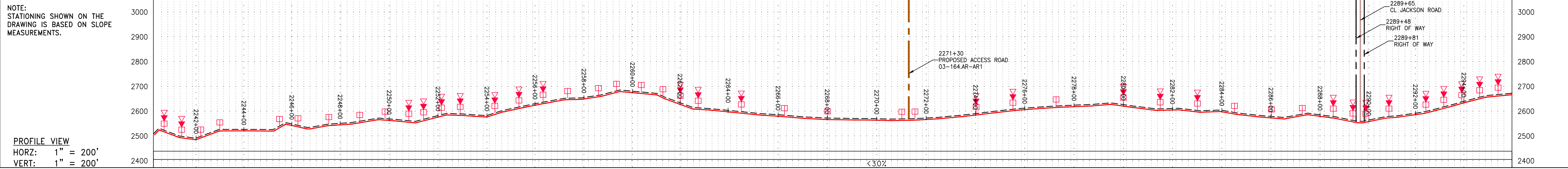
gai consultants

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

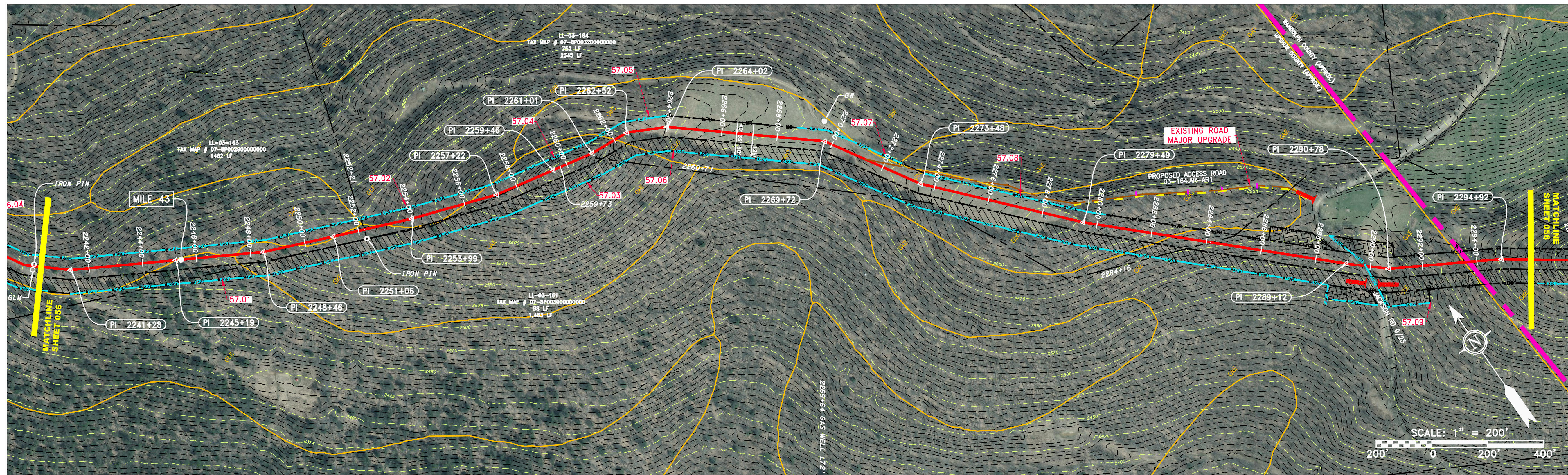
mbe
 monah basin
 engineers

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

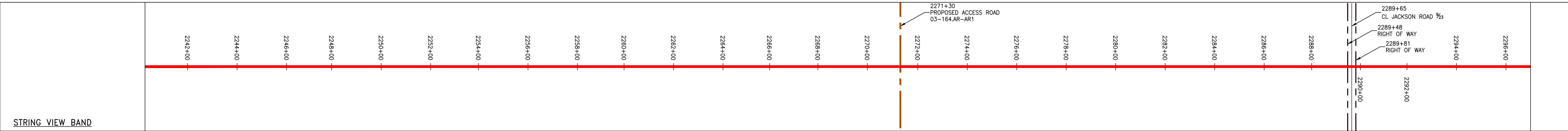
PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E056
056 OF 344	



PROPERTY OWNERSHIP	TAX MAP #	ACRES
2237+59	LL-03-163	1462 LF
2252+21	LL-03-164	752 LF
2259+73	LL-03-161	98 LF
2284+16	LL-03-164	2345 LF
2296+79	LL-03-161	1,463 LF



PIPE SPECIFICATION



LEGEND

— — — — —	PROPERTY LINE	— — — — —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	— — — — —	LOD	— — — — —	LIMIT OF DISTURBANCE
X — X —	FENCE	— — — — —	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	— — — — —	BSRF	— — — — —	BELTED SILT RETENTION FENCE (BSRF)
— — — — —	STREAM	— — — — —	WATER LINE	▨	WETLAND	▨	UTILITY POLE	— — — — —	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).	▨		— — — — —	111.03	— — — — —	COMPOST FILTER SOCK
OH — — — —	OVERHEAD UTILITY LINES	— — — — —	EDGE OF GRAVEL	▨		▨		— — — — —	111.03	— — — — —	SEDIMENT BARRIER IDENTIFICATION
— — — — —	ACCESS ROAD	— — — — —	PROPOSED PERMANENT EASEMENT	▨		▨		— — — — —	CUB	— — — — —	ORANGE SAFETY FENCE
— — — — —	PROPOSED GAS PIPELINE	— — — — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	▨		▨		— — — — —	30-58Z	— — — — —	ROADSIDE DITCH
											SOIL TYPE
											TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

NOTES:

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NO.	DATE	CHKD.	APPD.	DESCRIPTION

ERM

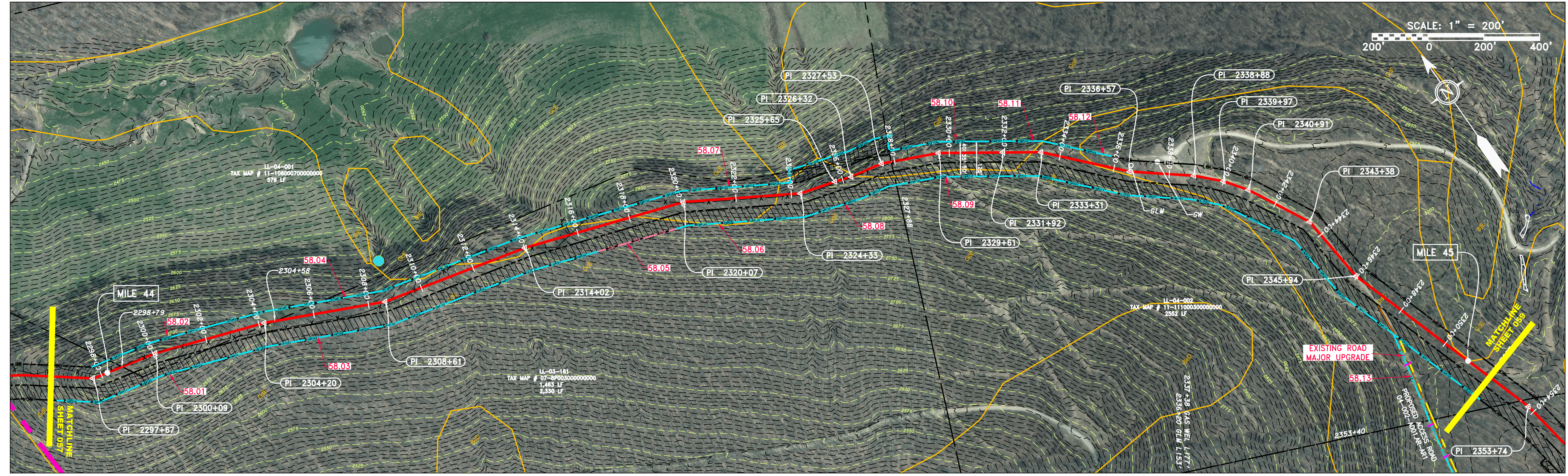
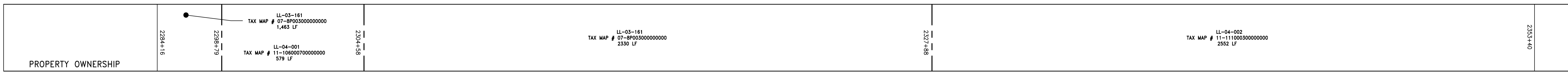
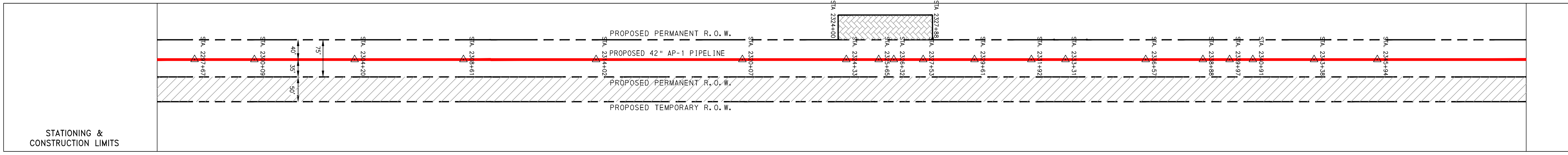
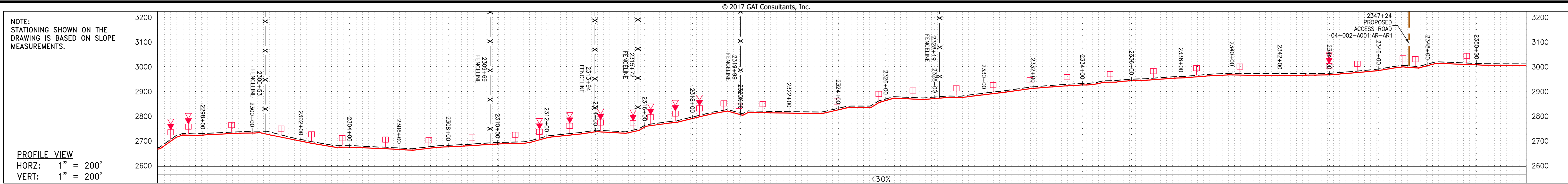
SCALE: AS SHOWN
 DATE: 6/1/17
 DRAWN: GOS
 CHECKED: DLH
 APPROVED: NET

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

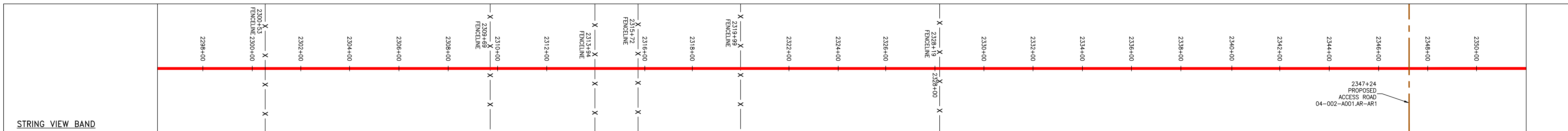
300 BUSINESS CENTER DRIVE
 PITTSBURGH, PA 15205
 412-788-2433

PROJECT NO./DASH NO.
 140468
 TASK NO. SUB TASK NO.
 005 00
 GROUP ID DRAWING NO.
 D E057
 057 OF 344

J:\2665 - GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (58).DWG



PIPE SPECIFICATION



<p>LEGEND</p> <ul style="list-style-type: none"> --- PROPERTY LINE -X-X- FENCE --- STREAM -G-G- EXISTING GAS PIPELINE -OH- OVERHEAD UTILITY LINES - - - ACCESS ROAD --- PROPOSED GAS PIPELINE --- PROPOSED GAS PIPELINE (NO GROUND SURVEY) --- STORM SEWER --- UNDERGROUND ELECTRIC --- W- WATER LINE --- SAN- SANITARY SEWER --- EDGE OF GRAVEL --- PROPOSED PERMANENT EASEMENT --- PROPOSED PERMANENT R.O.W. --- PROPOSED TEMPORARY R.O.W. --- UTILITY POLE --- WETLAND --- EXTRA WORK SPACE --- AREA OF NO DISTURBANCE --- TOPSOIL SEGREGATION AREA --- PROPOSED TEMPORARY R.O.W. 	<p>NOTES:</p> <ol style="list-style-type: none"> 1. 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. 2. IMAGERY TAKEN FROM GOOGLE EARTH. 3. 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. 4. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 5. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 6. ALL STATIONING SHOWN IS SLOPE STATIONING. 7. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. 8. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 9. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. 10. EXISTING 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. 11. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 12. *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.	DESCRIPTION

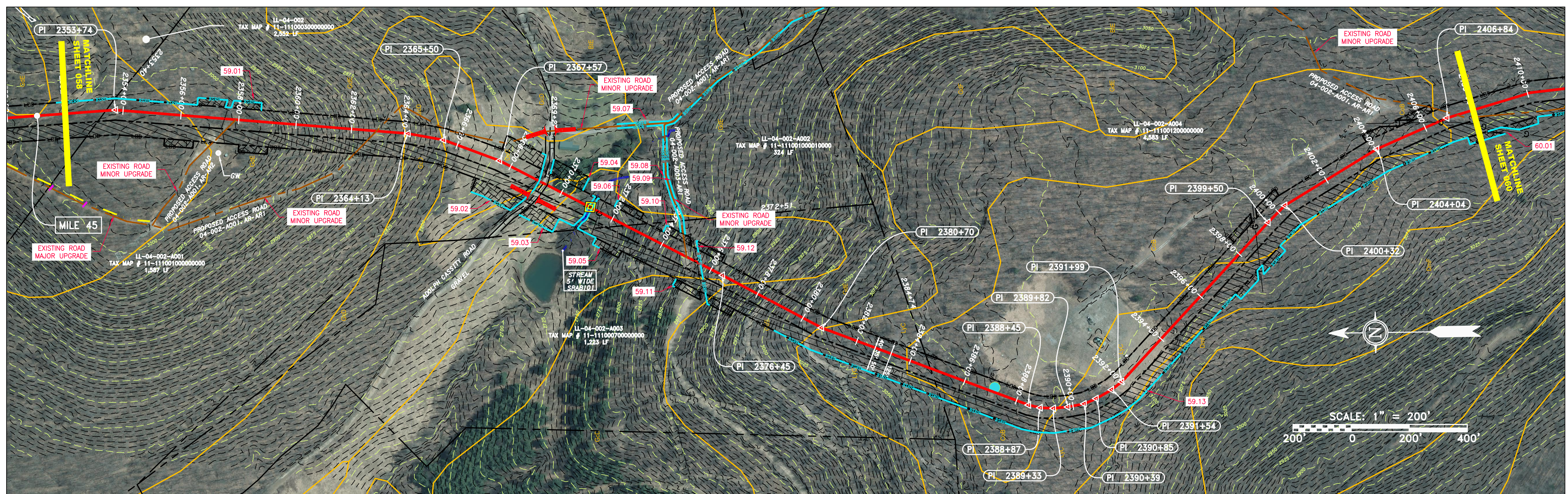
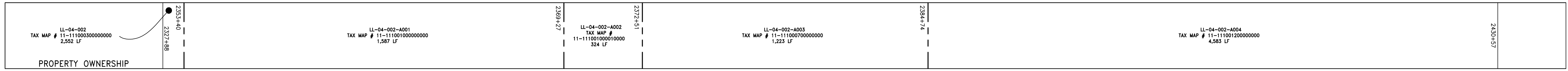
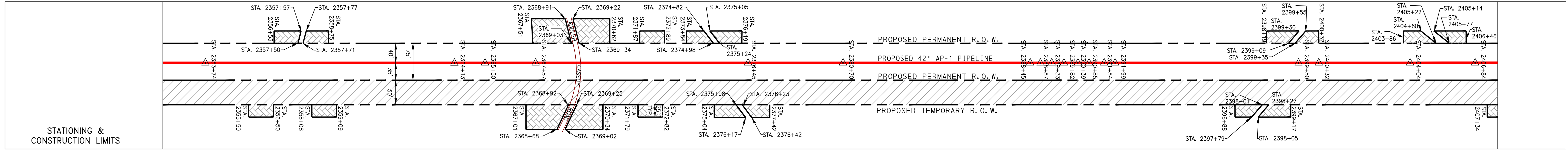
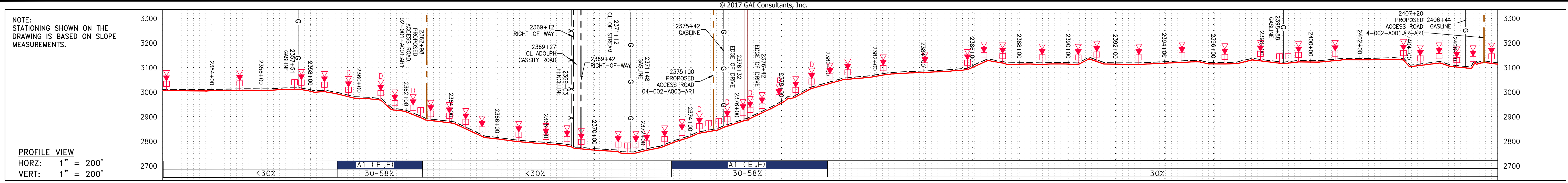
ERM

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

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

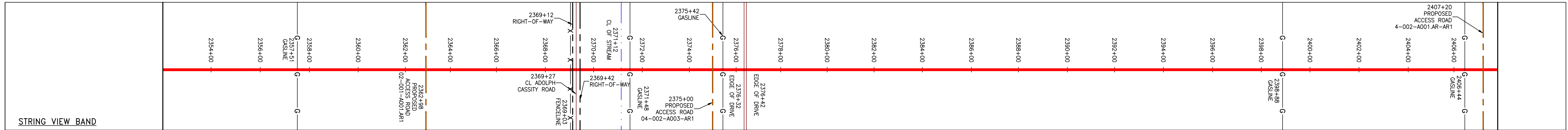
PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E058
058 OF 344	

J:\2665 - GAI WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (59).DWG



PIPE SPECIFICATION

42" AP-1 PIPELINE	AP-1 PIPELINE
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LEGEND

— X — X — FENCE	— E — UNDERGROUND ELECTRIC	— W — WATER LINE	— G — EXISTING GAS PIPELINE	— SAN — SANITARY SEWER	— OH — OVERHEAD UTILITY LINES	— ACCESS ROAD	— PROPOSED GAS PIPELINE	— PROPOSED GAS PIPELINE (NO GROUND SURVEY)	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA	AREA OF NO DISTURBANCE	WETLAND	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/ WATERBAR	LOD	BSRF	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 BIG SLOPE CATEGORY SLOPE INCLINATION
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REVISIONS

NO.	DATE	CHKD.	APPD.	DESCRIPTION

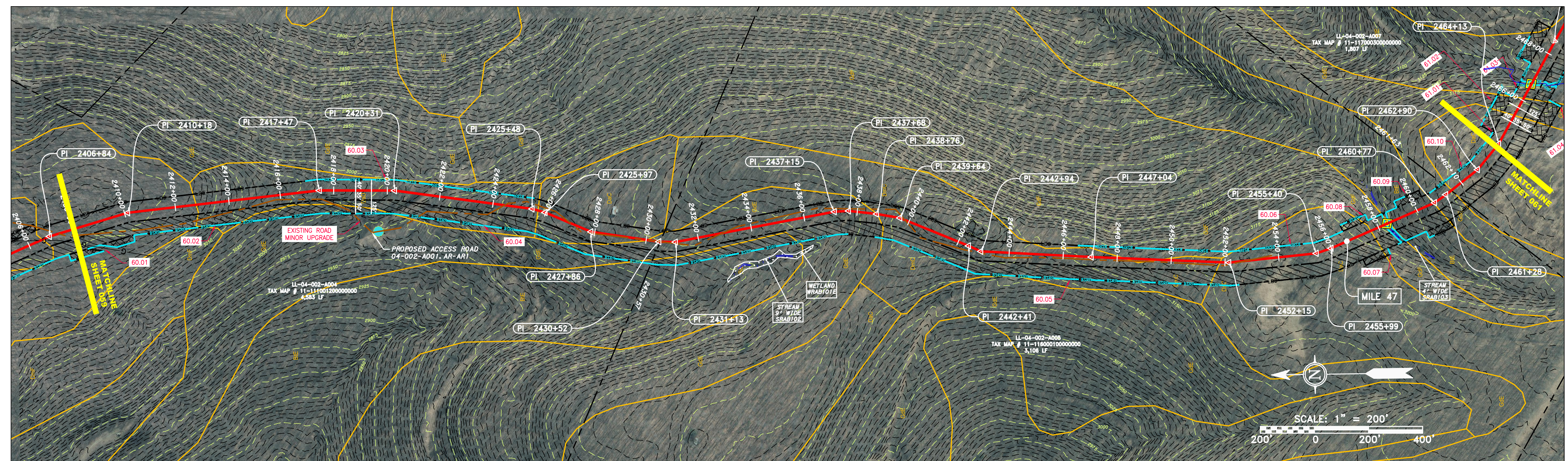
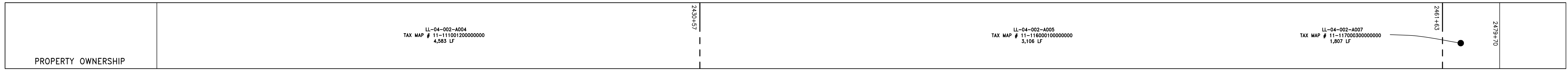
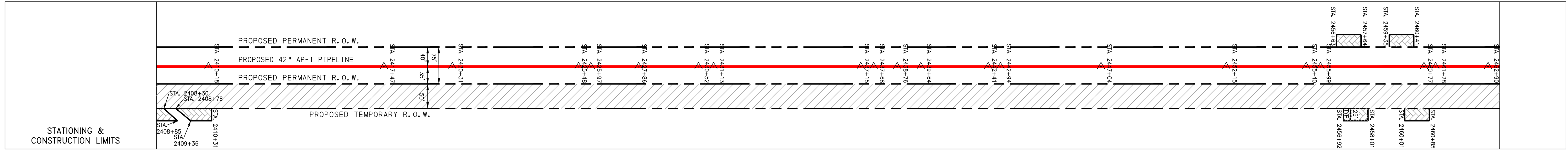
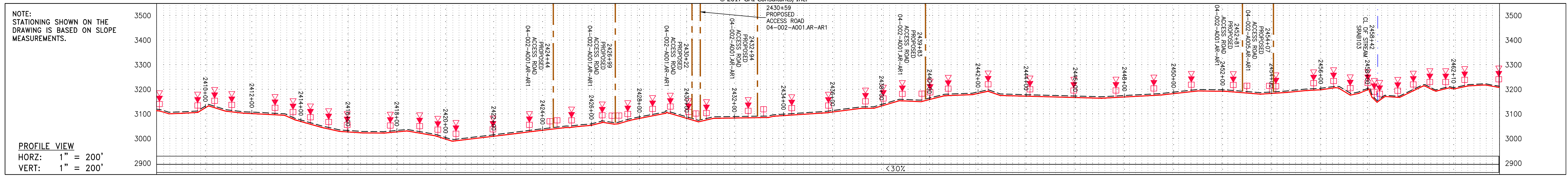
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CONSTRUCTION ALIGNMENT STA 2352+00 TO 2408+00

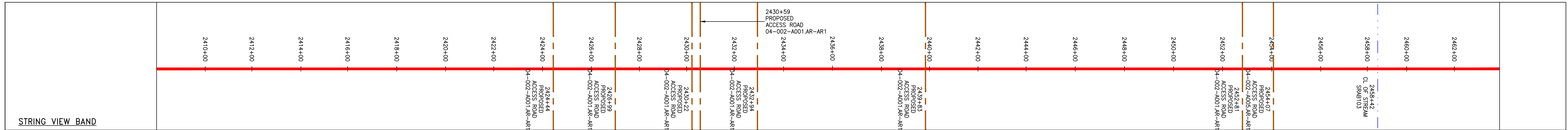
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

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

PROJECT NO./DASH NO. 140468
TASK NO. SUB TASK NO. 005 00
GROUP ID DRAWING NO. D E059
059 OF 344



PIPE SPECIFICATION



LEGEND

—	PROPERTY LINE	—	STORM SEWER	—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA
X-X	FENCE	—	UNDERGROUND ELECTRIC	—	AREA OF NO DISTURBANCE	—	PROPOSED TEMPORARY R.O.W.
—	STREAM	—	WATER LINE	—	WETLAND	—	UTILITY POLE
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).	—	
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	BY	CHKD.	APPROV.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA 2408+00 TO 2464+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: 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

GROUP ID DRAWING NO.
 D E060

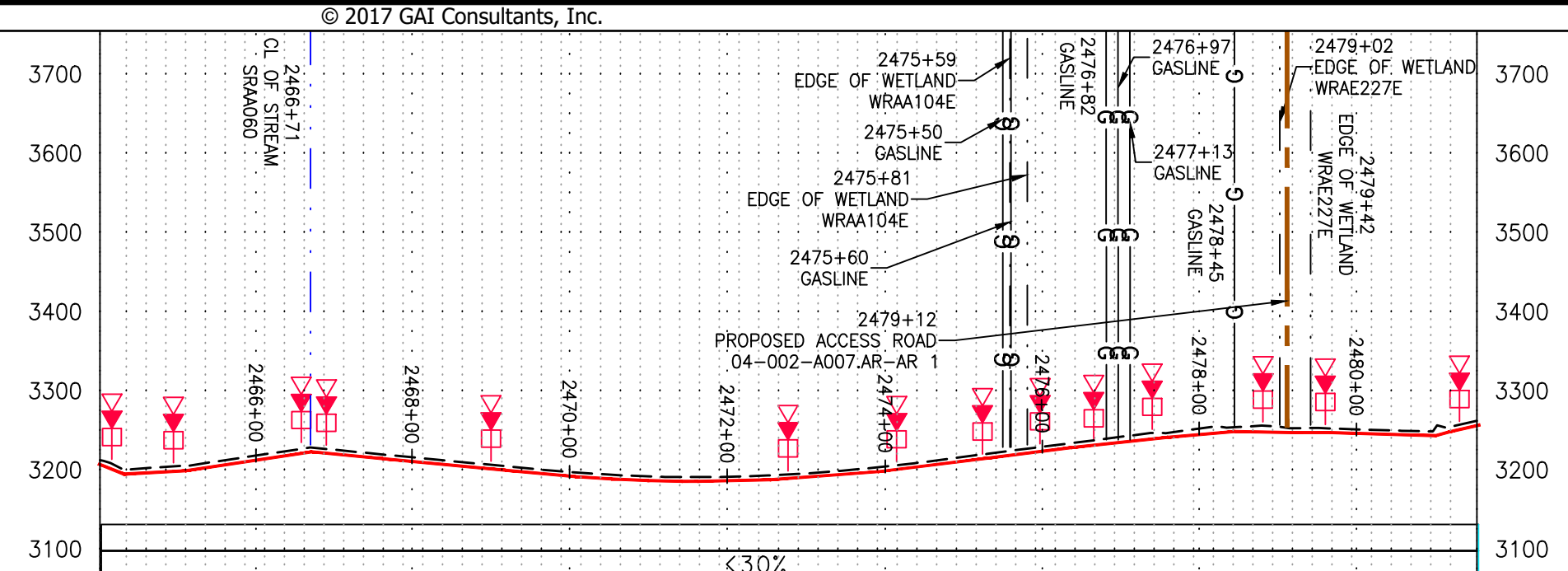
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6/1/2017 10:10 AM

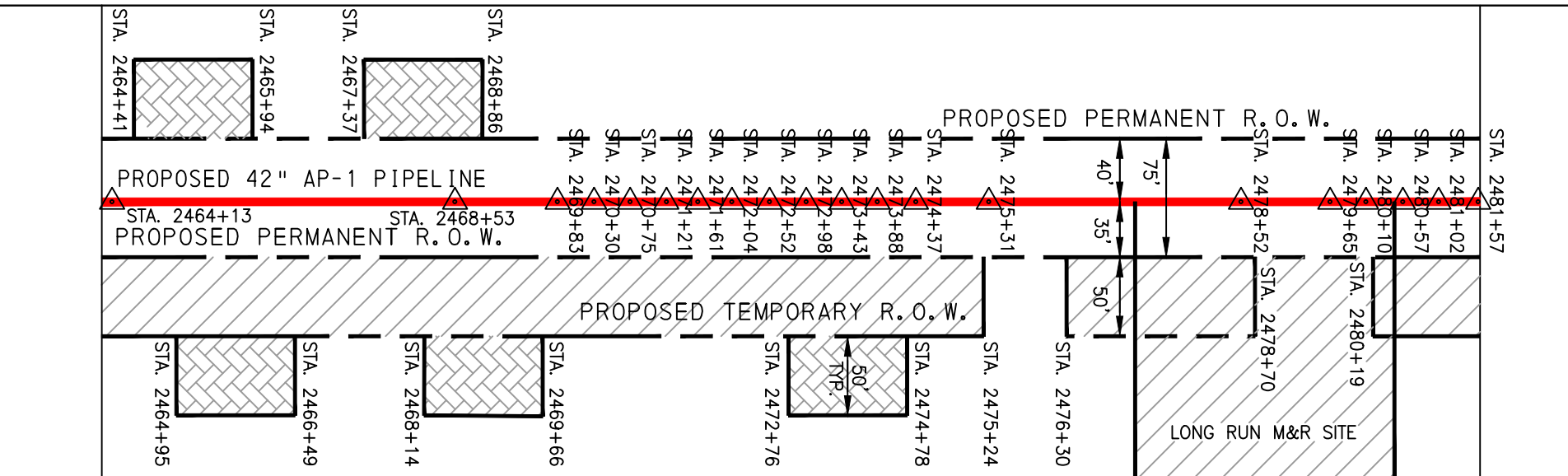
J:\2665 -GAI\WORK ORDER 02 - SOUTHEAST PIPELINE (SECTION 1)\ALIGNMENT SHEETS\2665-2 PLAN SHEETS (61).DWG

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

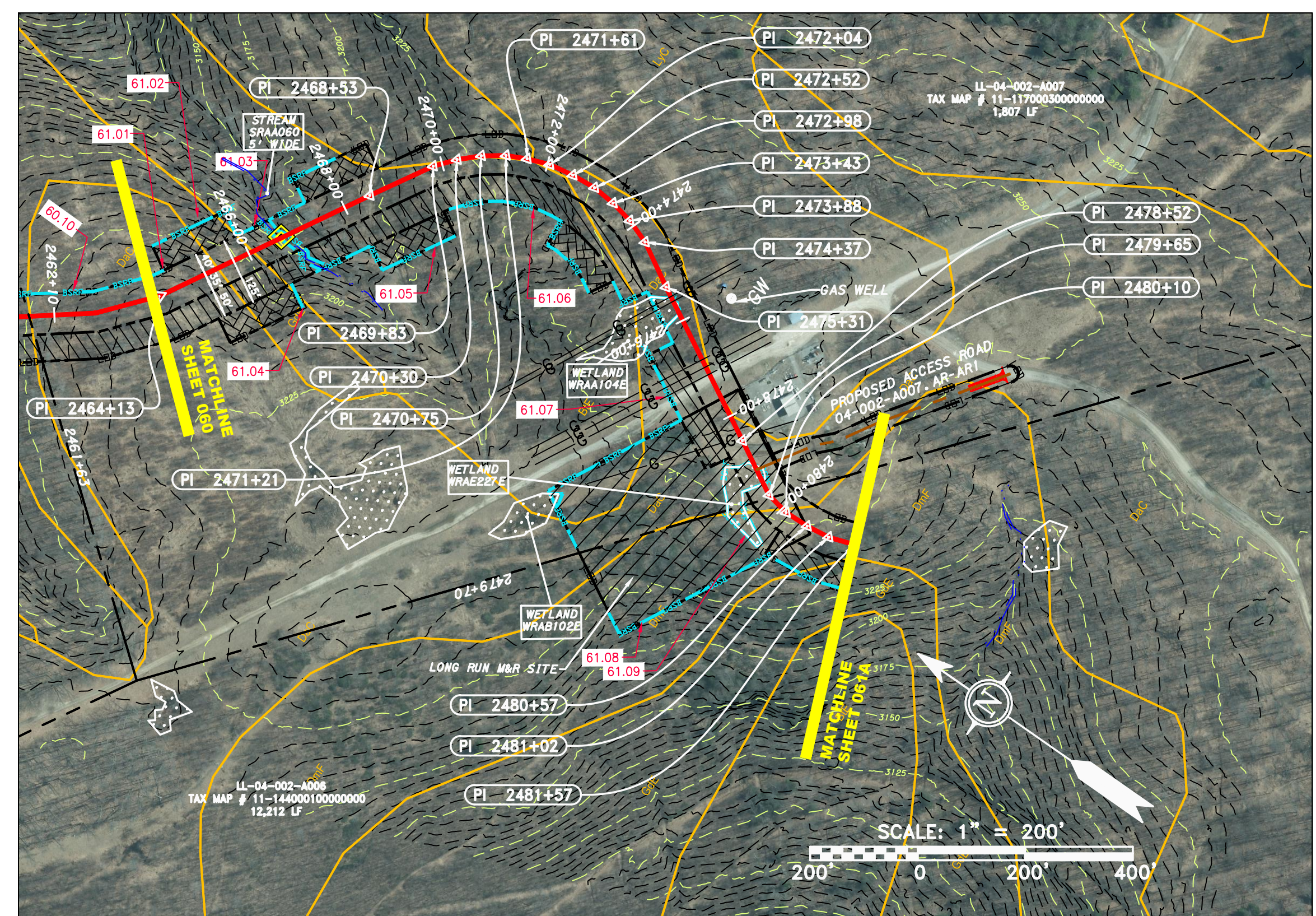
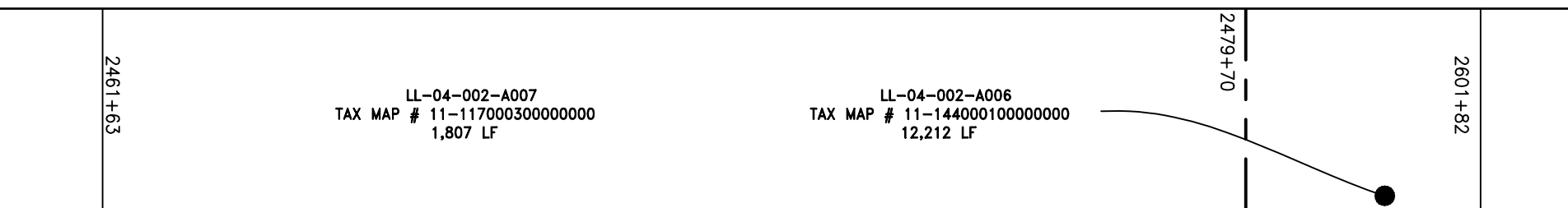
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



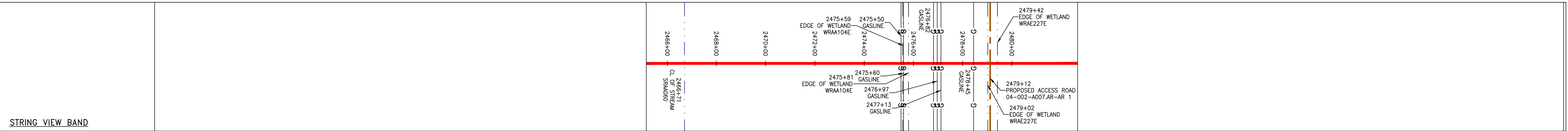
STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



PIPE SPECIFICATION



- LEGEND**
- PROPERTY LINE
 - - - STORM SEWER
 - - - UNDERGROUND ELECTRIC
 - - - WATER LINE
 - - - SANITARY SEWER
 - - - EDGE OF GRAVEL
 - - - PROPOSED PERMANENT EASEMENT
 - - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)
 - X - X - FENCE
 - STREAM
 - G - G - EXISTING GAS PIPELINE
 - OH - OVERHEAD UTILITY LINES
 - ACCESS ROAD
 - EXTRA WORK SPACE
 - AREA OF NO DISTURBANCE
 - WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
 - 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
 - CUB
 - A1 (E) 30-58Z
 - LIMIT OF DISTURBANCE
 - BELTED SILT RETENTION FENCE (BSRF)
 - SUPER SILT FENCE
 - COMPOST FILTER SOCK
 - ORANGE SAFETY FENCE
 - ROADSIDE DITCH
 - SOIL TYPE
 - TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION

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 - 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 BICPS 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.

NO.	DATE	CHKD.	APPD.	DESCRIPTION

ERM

CONSTRUCTION ALIGNMENT STA 2464+00 TO 2481+57
 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:	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.	SUB TASK NO.	005 00
GROUP ID	DRAWING NO.	D E061
061	OF	344