

NO.	DATE	CHKD.	APPROV.	DESCRIPTION

**REVISIONS**

**Professional Engineer**  
 Daniel R. Goldstein  
 Lic. No. 047436

**ERM**

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

**CONSTRUCTION ALIGNMENT STA 2240+00 TO 2296+00**  
 CITY OF SUFFOLK, VIRGINIA

SCALE: AS SHOWN  
 DATE: 6/21/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

**gai consultants**

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

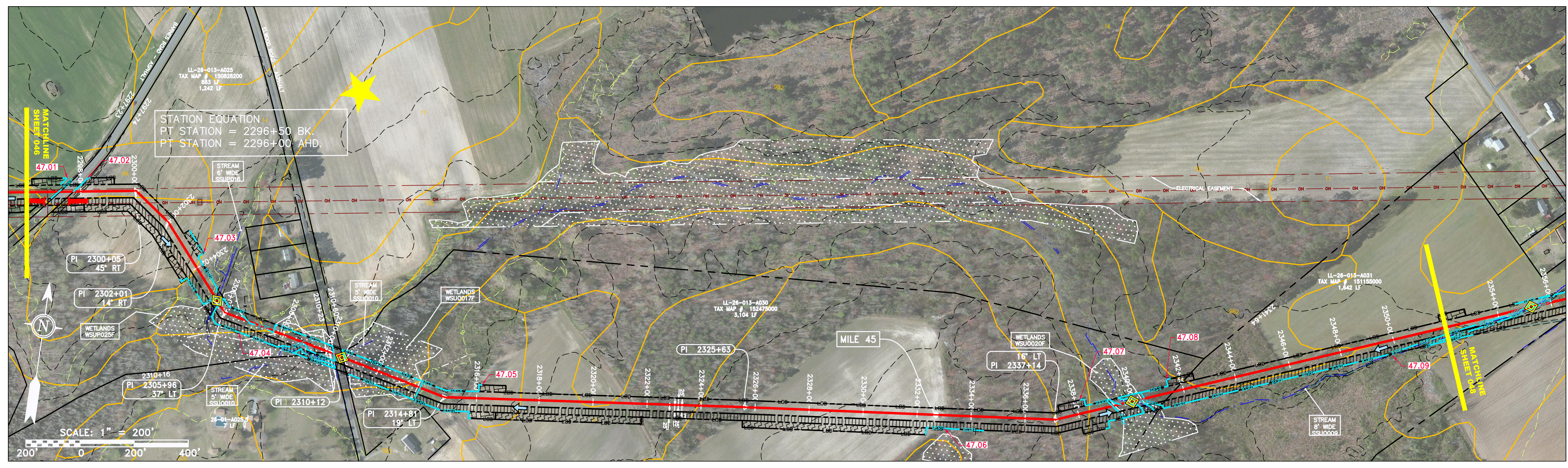
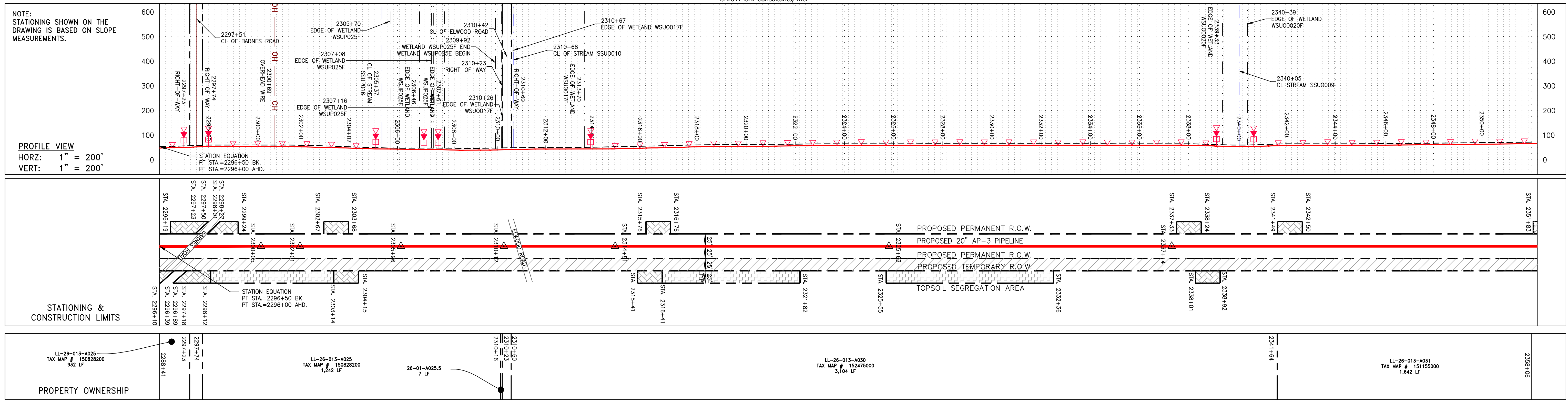
**mbe monaloh basin engineers**

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

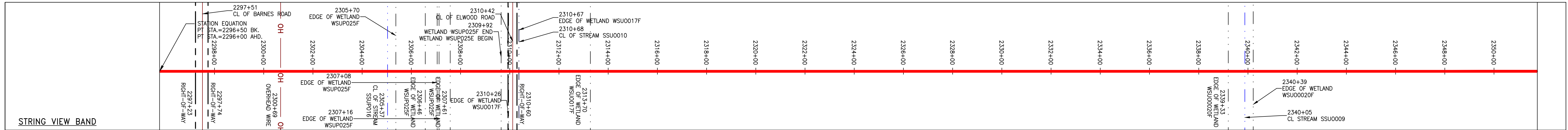
PROJECT NO./DASH NO. 140468  
 TASK NO. SUB TASK NO. 005 00  
 GROUP ID DRAWING NO. D E046  
 046 OF 84

6/21/2017 9:16 AM





PIPE SPECIFICATION



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>--- PROPERTY LINE</li> <li>-X-X- FENCE</li> <li>-G-G- EXISTING GAS PIPELINE</li> <li>-OH- OVERHEAD UTILITY LINES</li> <li>- - - ACCESS ROAD</li> <li>- - - STORM SEWER</li> <li>- - - UNDERGROUND ELECTRIC</li> <li>-W- WATER LINE</li> <li>- - - SANITARY SEWER</li> <li>- - - EDGE OF GRAVEL</li> <li>- - - PROPOSED PERMANENT EASEMENT</li> <li>- - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> </ul>	<ul style="list-style-type: none"> <li>EXTRA WORK SPACE</li> <li>AREA OF NO DISTURBANCE</li> <li>WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</li> <li>TOPSOIL SEGREGATION AREA</li> <li>PROPOSED TEMPORARY R.O.W.</li> <li>UTILITY POLE</li> </ul>	<ul style="list-style-type: none"> <li>PERMANENT WATERBAR/SLOPE BREAKER</li> <li>TEMPORARY WATERBAR/SLOPE BREAKER</li> <li>TRENCH BREAKER/PLUG</li> <li>STREAM CROSSING</li> <li>CULVERT CROSSING WITH ENHANCED CONTROLS</li> <li>SEEP</li> <li>SLOPE DIRECTION</li> <li>CONSTRUCTION ENTRANCE WITH DITCH</li> <li>CULVERT AS NEEDER</li> <li>CULVERT/WATERBAR</li> </ul>	<ul style="list-style-type: none"> <li>L00</li> <li>B501</li> <li>111.03</li> <li>C 111.001</li> <li>ORANGE SAFETY FENCE</li> <li>ROADSIDE DITCH</li> <li>SOIL TYPE</li> <li>TYPICAL BIC SLOPE CATEGORY</li> <li>SLOPE INCLINATION</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>2. 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.</li> <li>3. IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>4. THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THESE DRAWINGS.</li> <li>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>7. ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>10. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS SLOPE BAND.</li> <li>11. 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.</li> <li>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.</li> <li>13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORP. OF ENGINEERS.</li> </ol>
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REVISIONS	DESCRIPTION	APPROV.	CHKD.	DATE	BY

**DANIEL R. GOLDSTEIN**  
Lic. No. 047436

**ERM**

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

**20" AP-3 PIPELINE**  
CONSTRUCTION ALIGNMENT STA 2296+00 TO 2352+00  
CITY OF SUFFOLK, VIRGINIA

SCALE: AS SHOWN  
DATE: 6/21/17  
DRAWN: JMS  
CHECKED: DLH  
APPROVED: NET

**gai consultants**

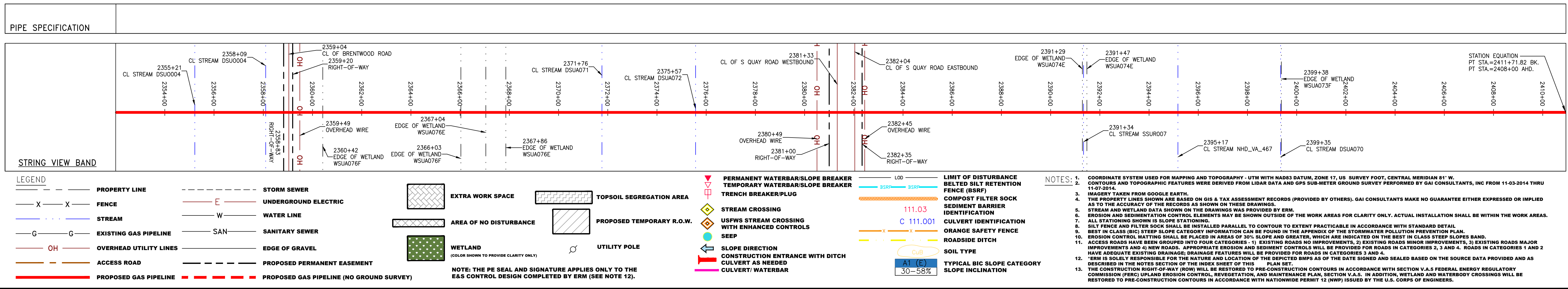
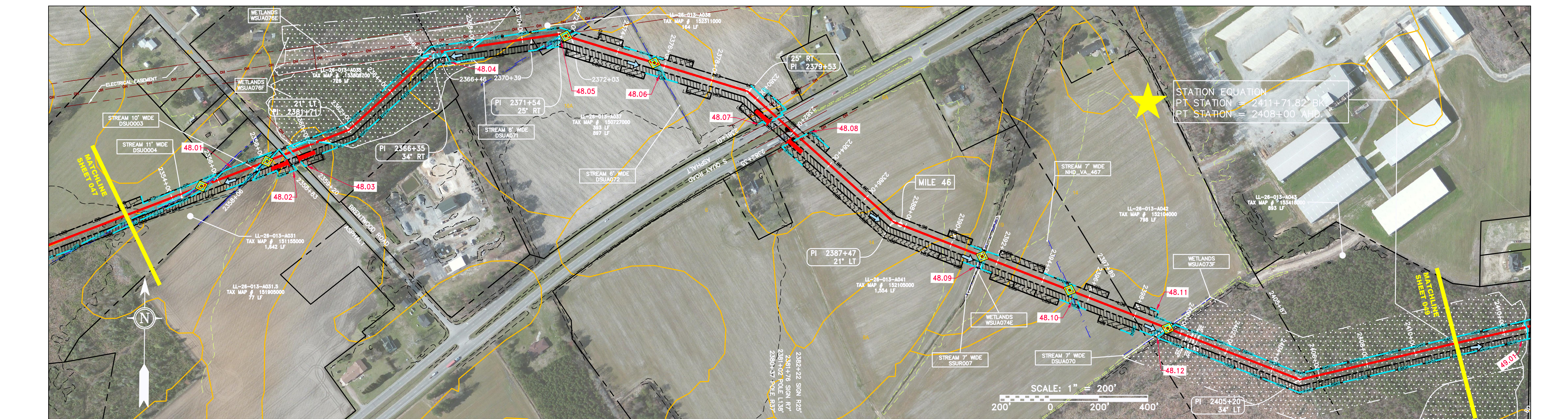
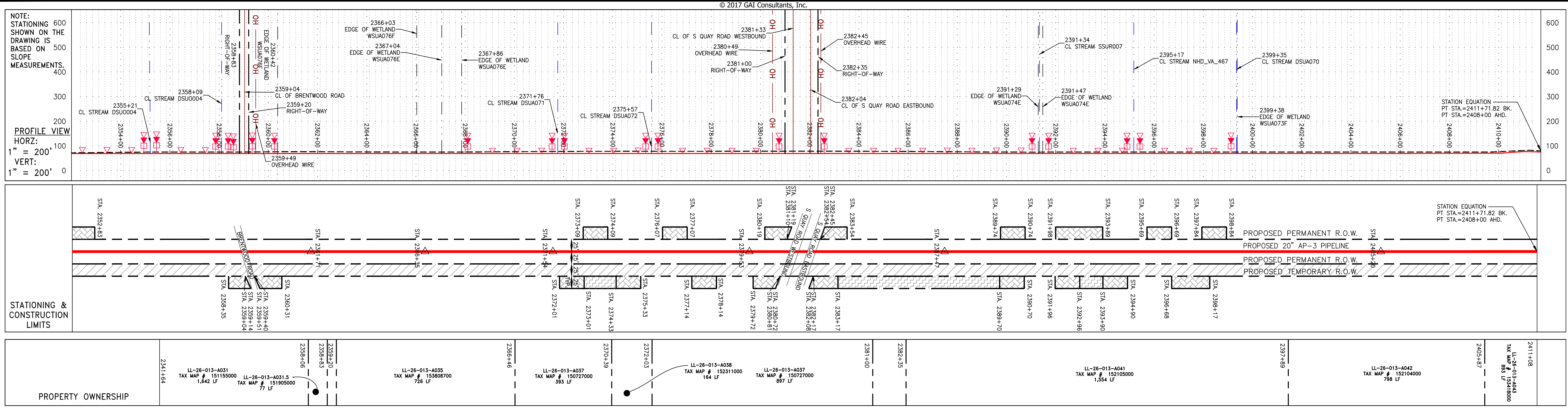
SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
CANONSBURG, PA 15317  
724-873-3545

**mbe**  
monahon basin engineers

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

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	
005	00	
GROUP ID	DRAWING NO.	
D	E047	
047	OF	84





NO.	DATE	CHKD.	APPD.	DESCRIPTION

**DANIEL L. GOLDSTEIN**  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

**20" AP-3 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 2352+00 TO 2408+00**  
**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330  
 CITY OF SUFFOLK, VIRGINIA

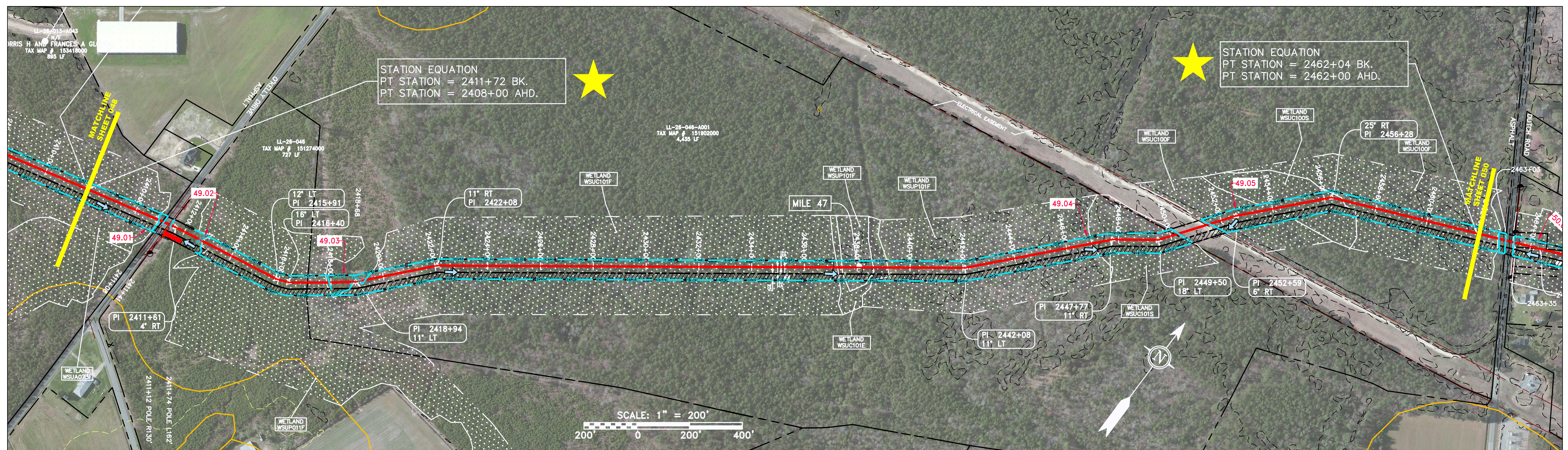
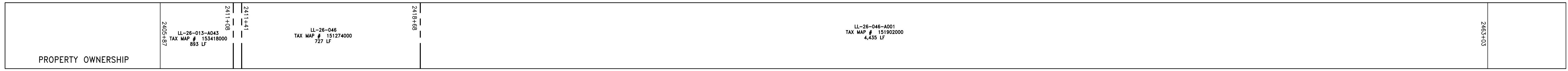
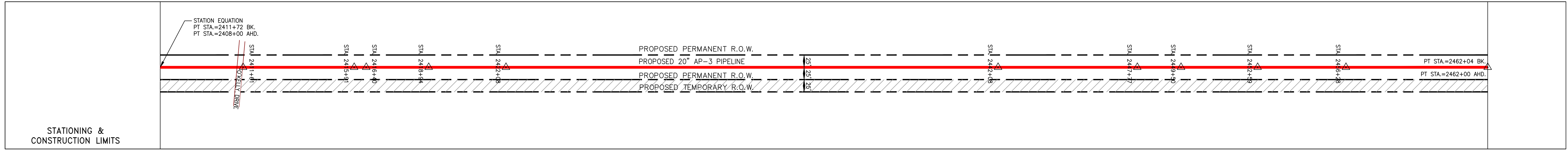
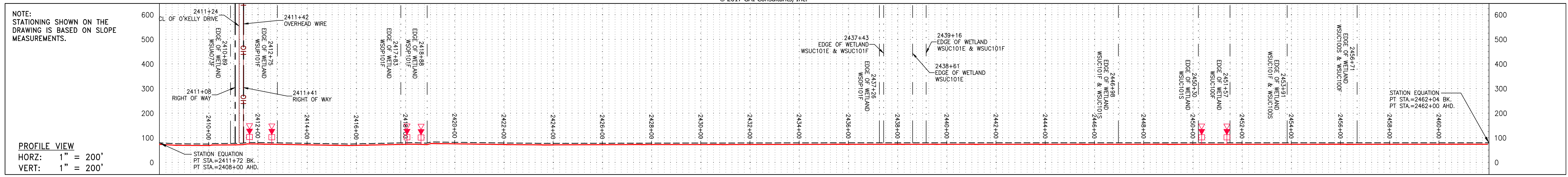
SCALE:	AS SHOWN
DATE:	6/19/17
DRAWN:	CLM
CHECKED:	DLH
APPROVED:	NET

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

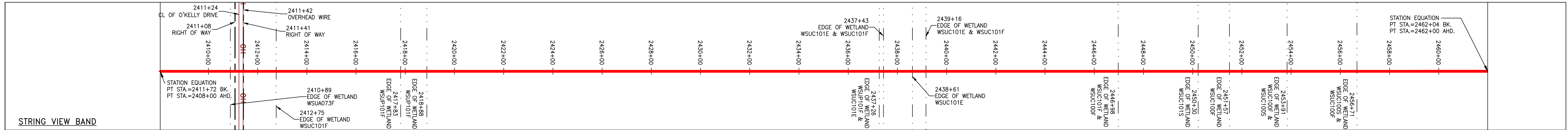
300 BUSINESS CENTER DRIVE  
 PITTSBURGH, PA 15205  
 412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	005 / 00
GROUP ID	DRAWING NO.	D / E048
048	OF 84	6/19/2017 11:14 AM





**PIPE SPECIFICATION**



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">---</span> PROPERTY LINE</li> <li><span style="color: blue;">X-X</span> FENCE</li> <li><span style="color: green;">---</span> STREAM</li> <li><span style="color: brown;">G-G</span> EXISTING GAS PIPELINE</li> <li><span style="color: orange;">OH</span> OVERHEAD UTILITY LINES</li> <li><span style="color: purple;">---</span> ACCESS ROAD</li> <li><span style="color: red;">---</span> PROPOSED GAS PIPELINE</li> <li><span style="color: red;">---</span> STORM SEWER</li> <li><span style="color: blue;">---</span> UNDERGROUND ELECTRIC</li> <li><span style="color: green;">---</span> WATER LINE</li> <li><span style="color: brown;">---</span> SANITARY SEWER</li> <li><span style="color: purple;">---</span> EDGE OF GRAVEL</li> <li><span style="color: purple;">---</span> PROPOSED PERMANENT EASEMENT</li> <li><span style="color: red;">---</span> PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> </ul>	<ul style="list-style-type: none"> <li><span style="border: 1px solid black; padding: 2px;"> </span> EXTRA WORK SPACE</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> AREA OF NO DISTURBANCE</li> <li><span style="background-color: green; border: 1px solid black; padding: 2px;"> </span> WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> TOPSOIL SEGREGATION AREA</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> PROPOSED TEMPORARY R.O.W.</li> <li><span style="border: 1px solid black; padding: 2px;"> </span> UTILITY POLE</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: red;">▲</span> PERMANENT WATERBAR/SLOPE BREAKER</li> <li><span style="color: red;">▲</span> TEMPORARY WATERBAR/SLOPE BREAKER</li> <li><span style="color: red;">▲</span> TRENCH BREAKER/PLUG</li> <li><span style="color: blue;">▲</span> STREAM CROSSING</li> <li><span style="color: blue;">▲</span> USFWS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li><span style="color: blue;">▲</span> SEEP</li> <li><span style="color: purple;">▲</span> SLOPE DIRECTION</li> <li><span style="color: purple;">▲</span> CONSTRUCTION ENTRANCE WITH DITCH</li> <li><span style="color: purple;">▲</span> CULVERT AS NEEDED</li> <li><span style="color: purple;">▲</span> CULVERT/WATERBAR</li> </ul>	<ul style="list-style-type: none"> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> LIMIT OF DISTURBANCE</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> BELTED SILT RETENTION FENCE (BSRF)</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> COMPOST FILTER SOCK</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> SEDIMENT BARRIER IDENTIFICATION</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> CULVERT IDENTIFICATION</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> ORANGE SAFETY FENCE</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> ROADSIDE DITCH</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> SOIL TYPE</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, U.S. SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>2. 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.</li> <li>3. THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; 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.</li> <li>4. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>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.</li> <li>6. ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>7. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>8. BEST IN CLASS (BIC) STEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>9. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEP SLOPE PLAN.</li> <li>10. 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.</li> <li>11. 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.</li> <li>12. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION 6.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.</li> </ol>
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REVISIONS				
NO.	DATE	CHKD.	APPD.	DESCRIPTION

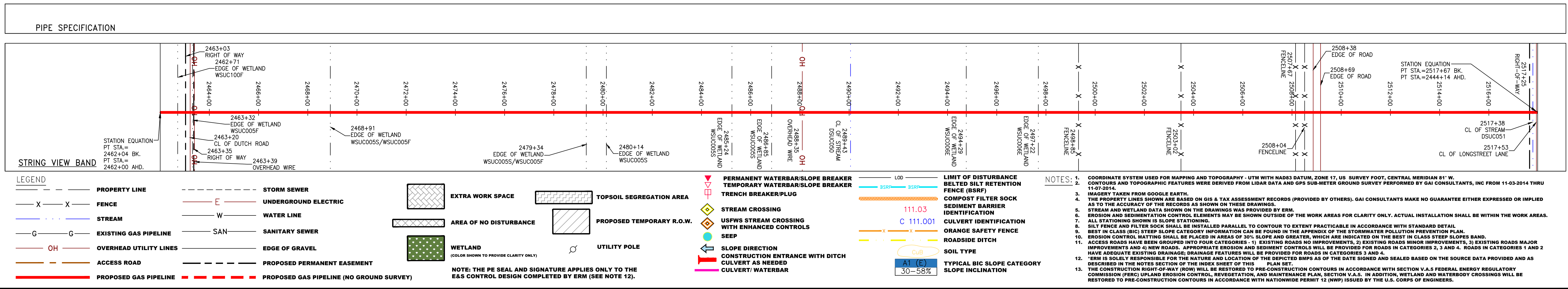
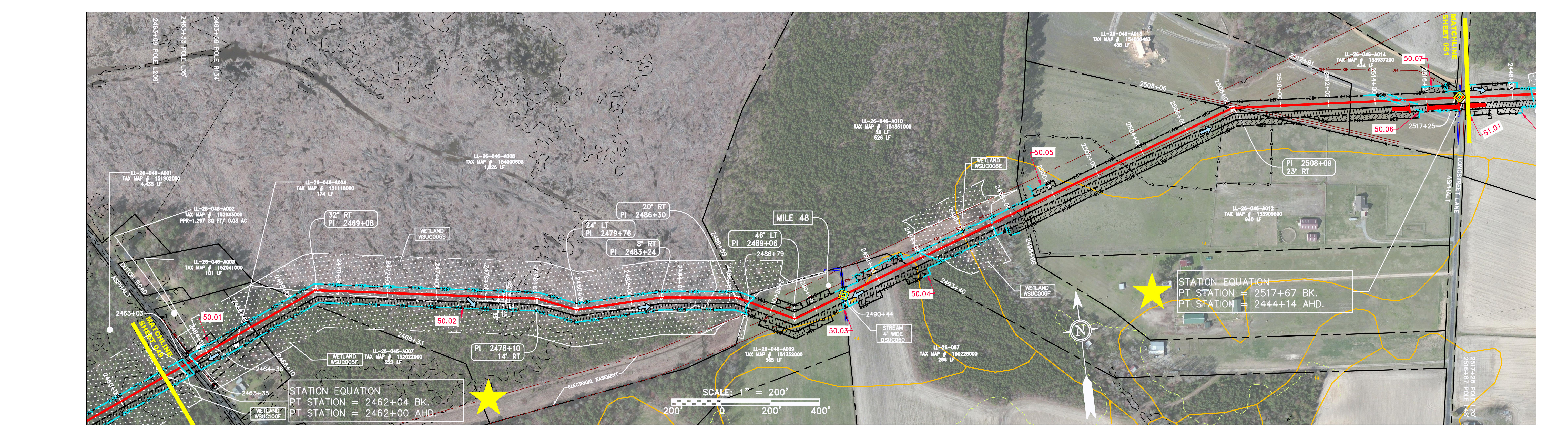
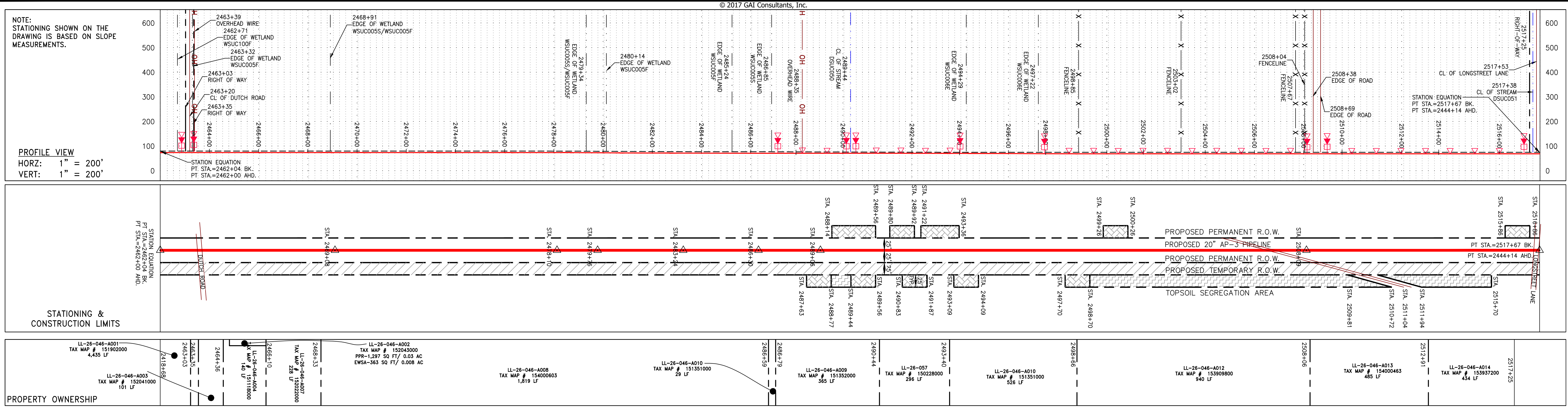
**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-673-3545

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 E049
049 OF 84	6/19/2017 11:11 AM





**REVISIONS**

NO.	DATE	CHKD.	APPD.	DESCRIPTION

**Professional Engineer Seal:**  
DANIEL L. GOLDSTEIN  
Lic. No. 04736

**ERM**

**20" AP-3 PIPELINE**  
CONSTRUCTION ALIGNMENT STA 2462+00 TO 2517+67  
CITY OF SUFFOLK, VIRGINIA

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

**SCALE: AS SHOWN**  
**DATE: 6/19/17**  
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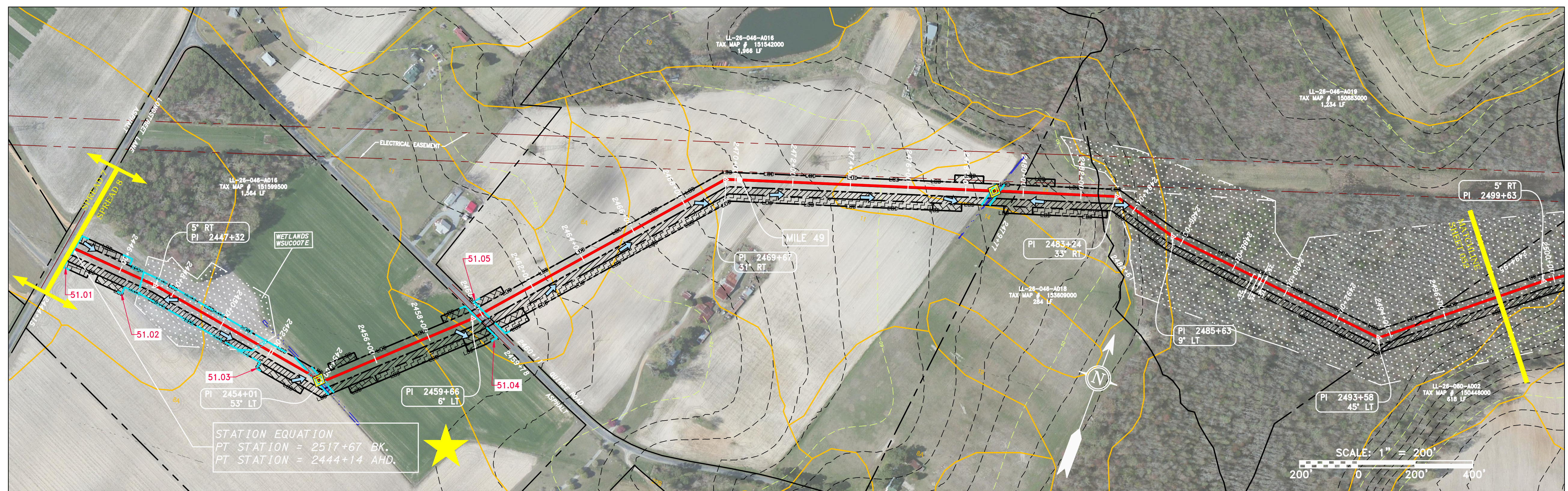
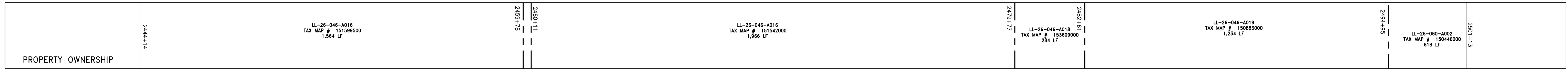
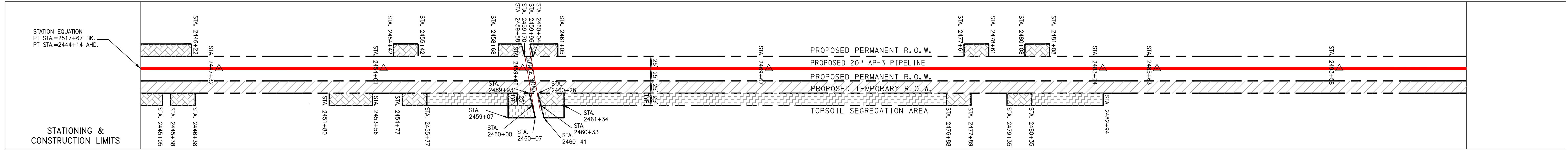
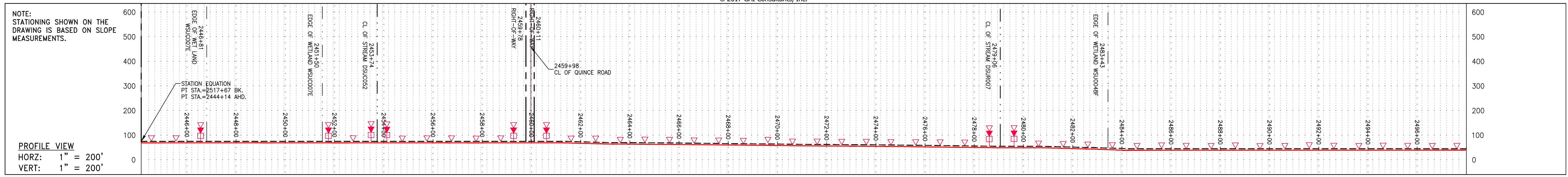
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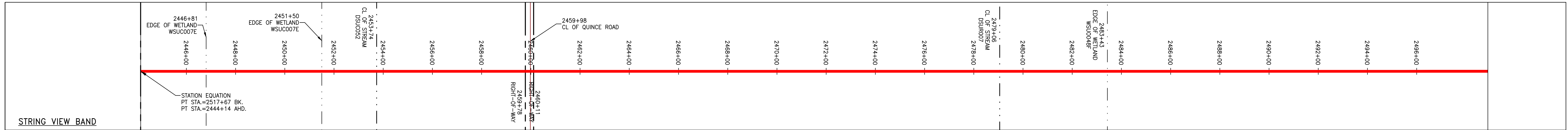
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6/19/2017 11:17 AM





PIPE SPECIFICATION

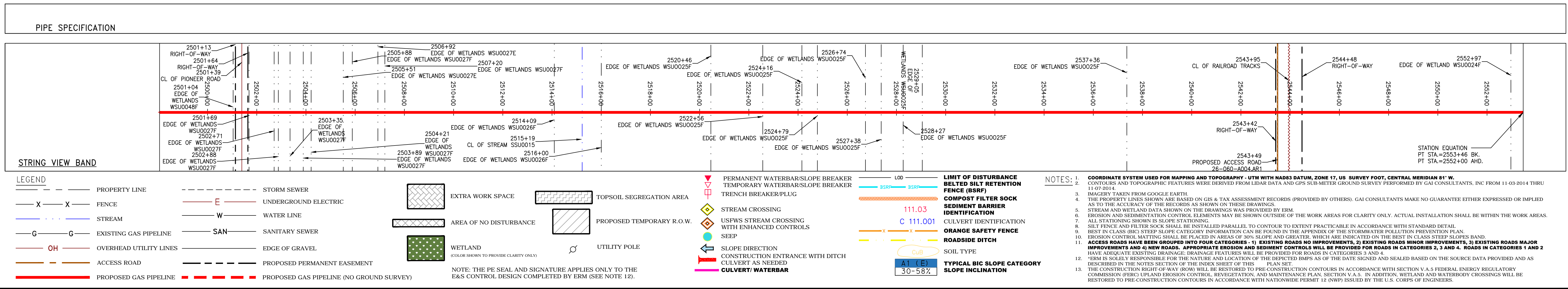
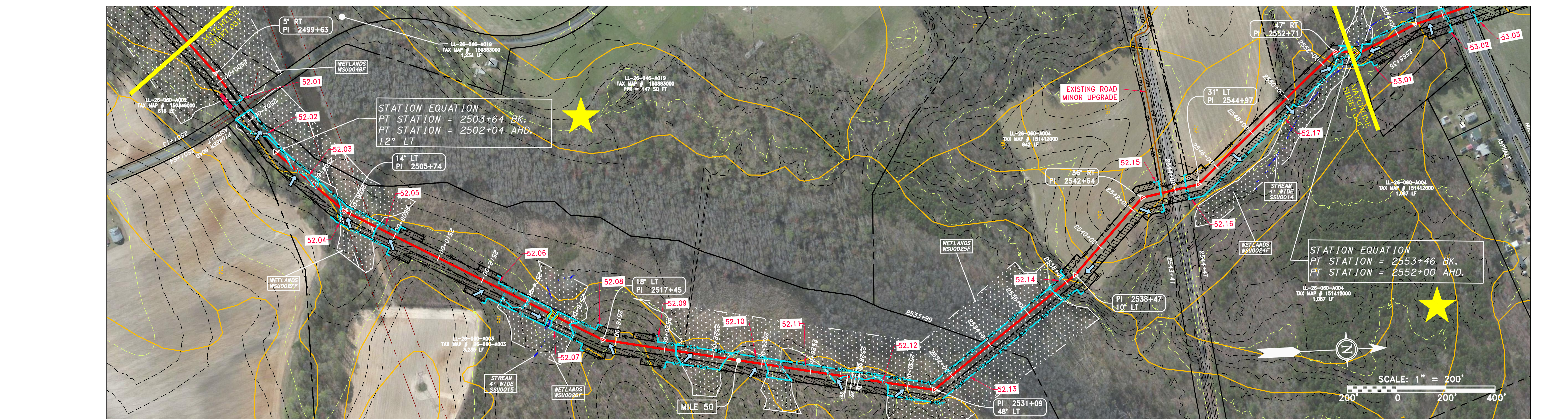
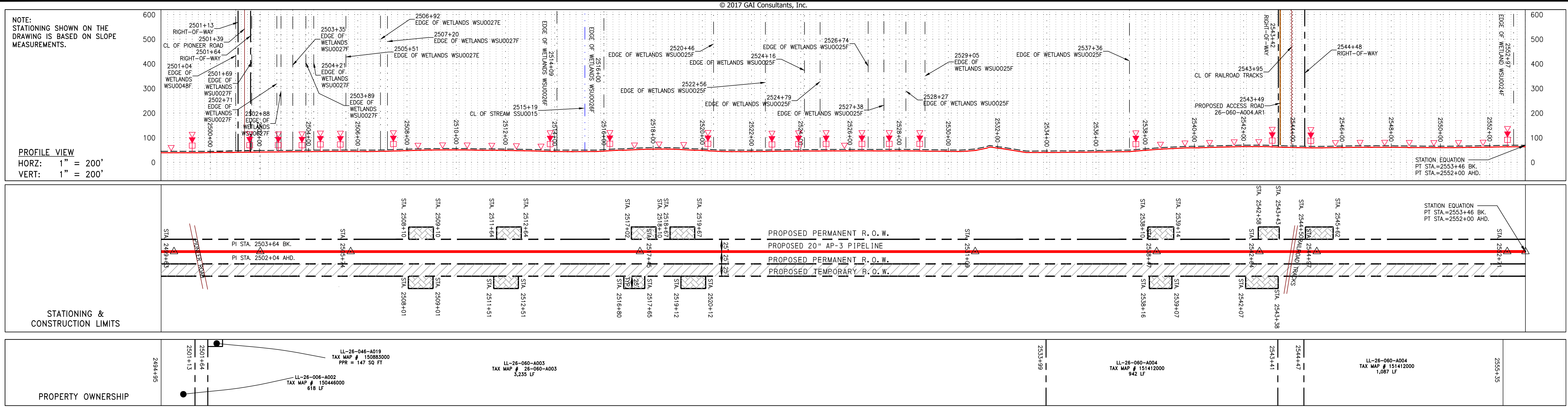


<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>--- PROPERTY LINE</li> <li>-X-X- FENCE</li> <li>-G-G- EXISTING GAS PIPELINE</li> <li>-OH- OVERHEAD UTILITY LINES</li> <li>- - - ACCESS ROAD</li> <li>- - - STORM SEWER</li> <li>-E- UNDERGROUND ELECTRIC</li> <li>-W- WATER LINE</li> <li>-SAN- SANITARY SEWER</li> <li>- - - EDGE OF GRAVEL</li> <li>- - - PROPOSED PERMANENT EASEMENT</li> <li>- - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> <li>□ EXTRA WORK SPACE</li> <li>□ AREA OF NO DISTURBANCE</li> <li>□ WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</li> <li>□ TOPSOIL SEGREGATION AREA</li> <li>□ PROPOSED TEMPORARY R.O.W.</li> <li>□ UTILITY POLE</li> <li>▲ PERMANENT WATERBAR/SLOPE BREAKER</li> <li>▲ TEMPORARY WATERBAR/SLOPE BREAKER</li> <li>▲ TRENCH BREAKER/PLUG</li> <li>◇ STREAM CROSSING</li> <li>◇ USFWS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li>◇ SEEP</li> <li>▲ SLOPE DIRECTION</li> <li>▲ CONSTRUCTION ENTRANCE WITH DITCH</li> <li>▲ CULVERT AS NEEDED</li> <li>▲ CULVERT/WATERBAR</li> <li>--- LIMIT OF DISTURBANCE</li> <li>--- BELTED SILT RETENTION FENCE (BSRF)</li> <li>--- COMPOST FILTER SOCK</li> <li>--- SEDIMENT BARRIER IDENTIFICATION</li> <li>--- CULVERT IDENTIFICATION</li> <li>--- ORANGE SAFETY FENCE</li> <li>--- ROADSIDE DITCH</li> <li>--- SOIL TYPE</li> <li>--- TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>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.</li> <li>IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; 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.</li> <li>STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>BEST IN CLASS (BIC) STEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEP SLOPE BAND.</li> <li><b>ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MAJOR IMPROVEMENTS AND 3) 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.</b></li> <li>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.</li> <li>THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONAL PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.</li> </ol>
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NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>CHKD.</th> <th>APPROV.</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION						
NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION								
<p><b>Daniel R. Goldstein</b>          PROFESSIONAL ENGINEER          Lic. No. 047436</p> <p><b>ERM</b></p>													
<p>CONSTRUCTION ALIGNMENT STA 2444+14 TO 2498+00          CITY OF SUFFOLK, VIRGINIA</p> <p>ATLANTIC COAST PIPELINE, LLC          C/O DOMINION TRANSMISSION, INC.          445 W. MAIN STREET, CLARKSBURG, WV 26301</p>													
<p>SCALE: AS SHOWN          DATE: 6/19/17          DRAWN: JMS          CHECKED: DLH          APPROVED: NET</p>													
<p><b>gai consultants</b></p> <p>SOUTHPOINTE OFFICE          6000 TOWN CENTER BLVD.          CANONSBURG, PA 15317          724-873-3545</p> <p><b>mbe</b>          monaloh basin engineers</p> <p>300 BUSINESS CENTER DRIVE          PITTSBURGH, PA 15205          412-788-2433</p>													
<p>PROJECT NO./DASH NO.          140468</p> <p>TASK NO. SUB TASK NO.          005 00</p> <p>GROUP ID DRAWING NO.          D E051</p> <p>051 OF 84</p>													





NO.	DATE	CHKD.	APPROV.	DESCRIPTION

**Atlantic Coast Pipeline, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

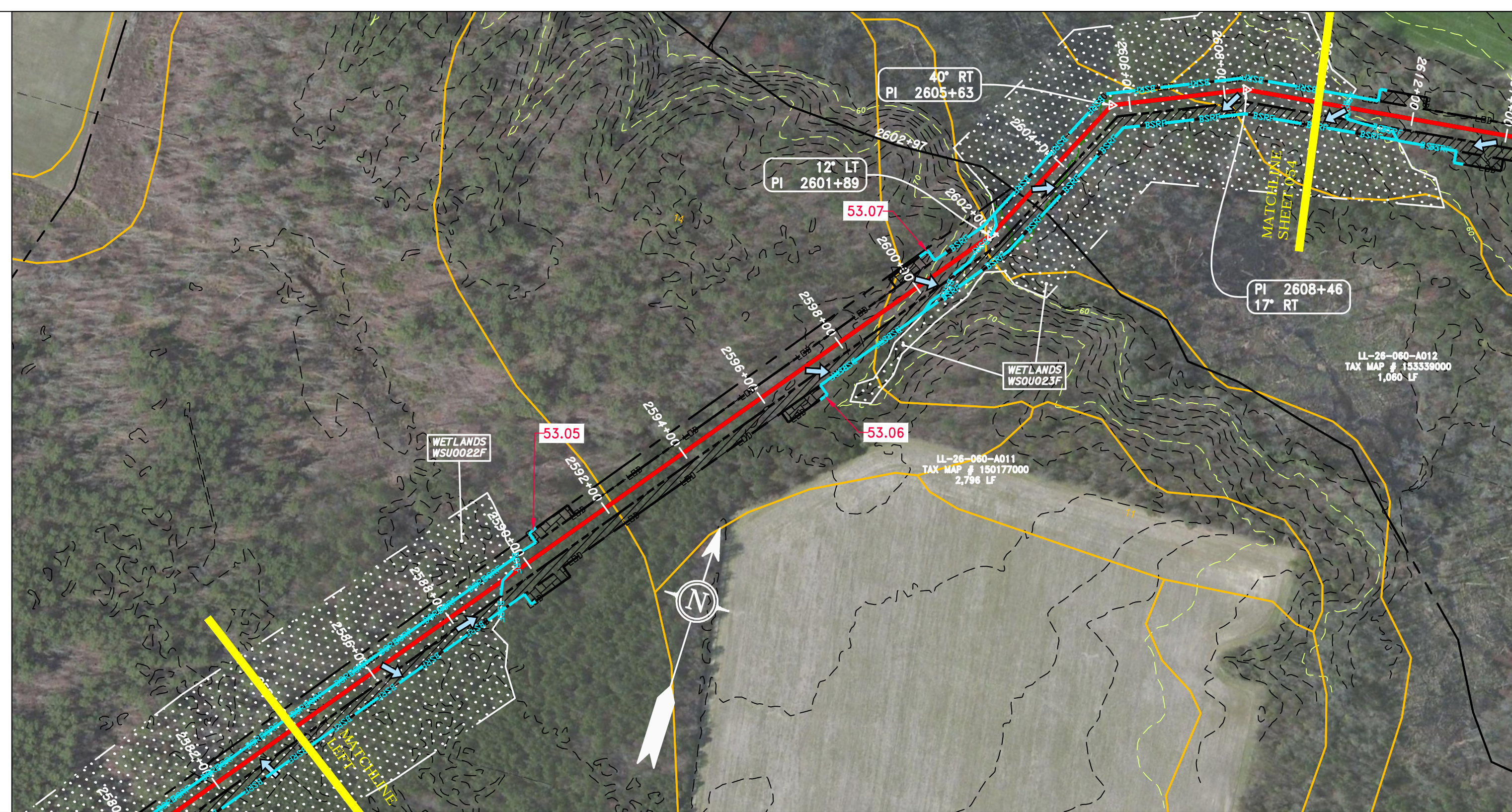
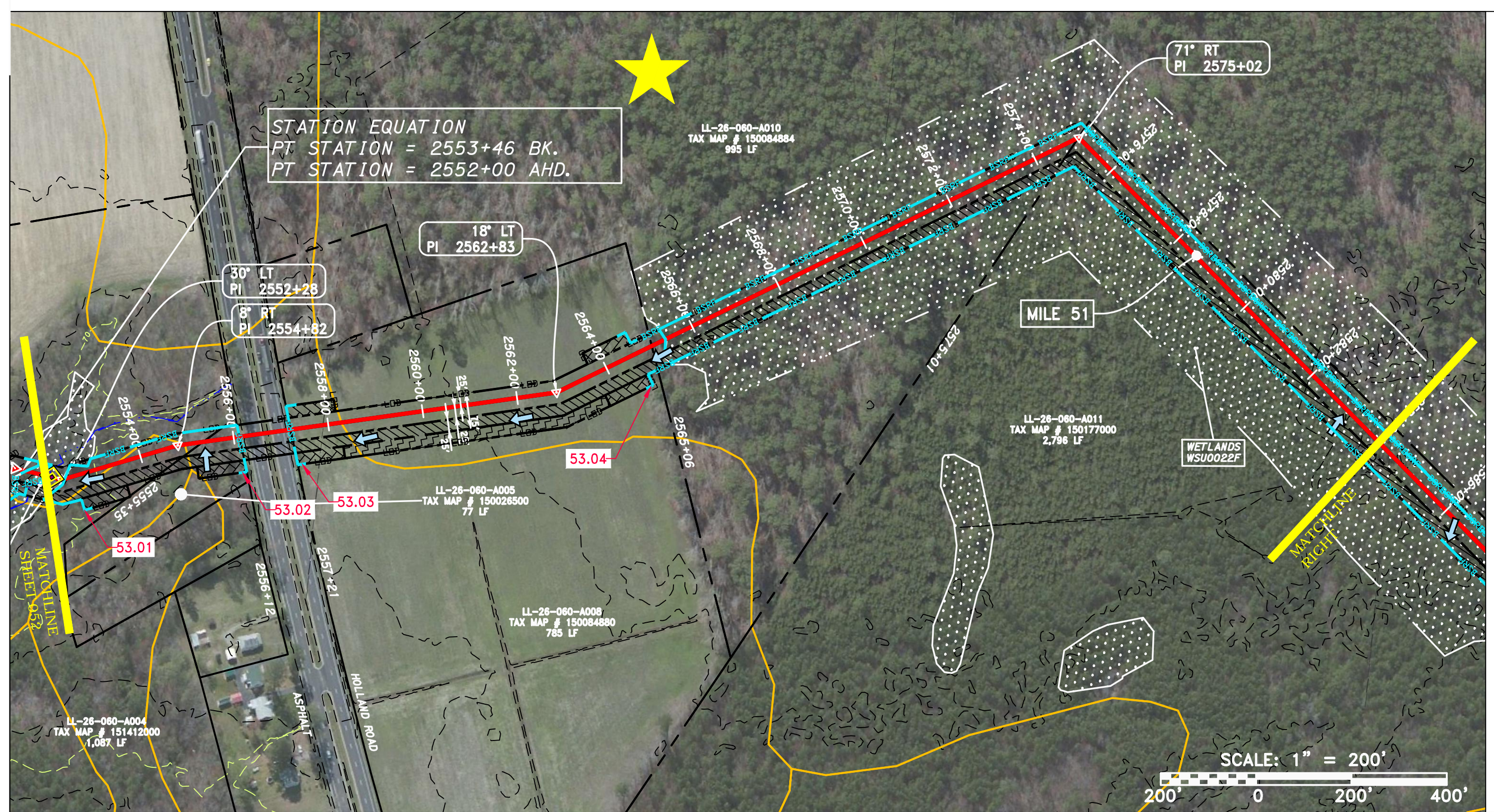
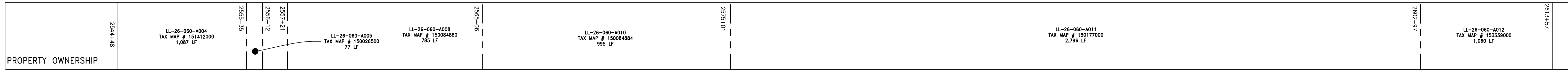
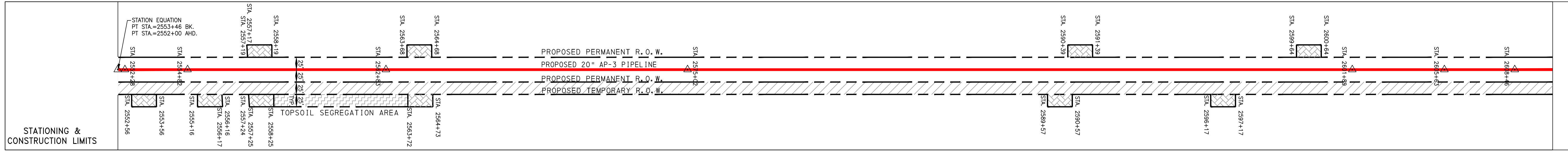
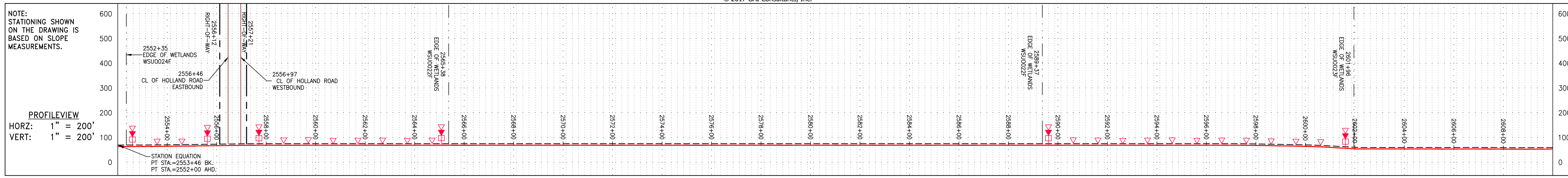
SCALE: AS SHOWN  
 DATE: 6/19/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

**gai consultants**  
 SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 PITTSBURGH, PA 15137  
 724-673-3545

**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 E052  
 052 OF 84





**PIPE SPECIFICATION**

2552+35	2556+97	2565+38	2589+37	2601+96
EDGE OF WETLANDS WSU0024F	CL OF HOLLAND ROAD WESTBOUND	EDGE OF WETLANDS WSU0022F	EDGE OF WETLANDS WSU0022F	EDGE OF WETLANDS WSU0023F
2554+00	2557+00	2562+00	2584+00	2602+00
CL OF HOLLAND ROAD EASTBOUND	RIGHT-OF-WAY	RIGHT-OF-WAY	RIGHT-OF-WAY	RIGHT-OF-WAY
STATION EQUATION PT STA = 2553+46 BK PT STA = 2552+00 AHD.				

**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 (COLOR SHOWN TO PROVIDE CLARITY ONLY)	--- UTILITY POLE
-G-G- EXISTING GAS PIPELINE	--- SANITARY SEWER		
--- OH --- 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.
- 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.
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**REVISIONS**

NO.	DATE	CHKD.	APPD.	DESCRIPTION

**Professional Engineer**  
 Daniel R. Goldstein  
 Lic. No. 047436

**ERM**

**20" AP-3 PIPELINE**  
 CONSTRUCTION ALIGNMENT STA 2552+00 TO 2610+00  
 CITY OF SUFFOLK, VIRGINIA

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

SCALE: AS SHOWN  
 DATE: 6/19/17  
 DRAWN: JMS  
 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

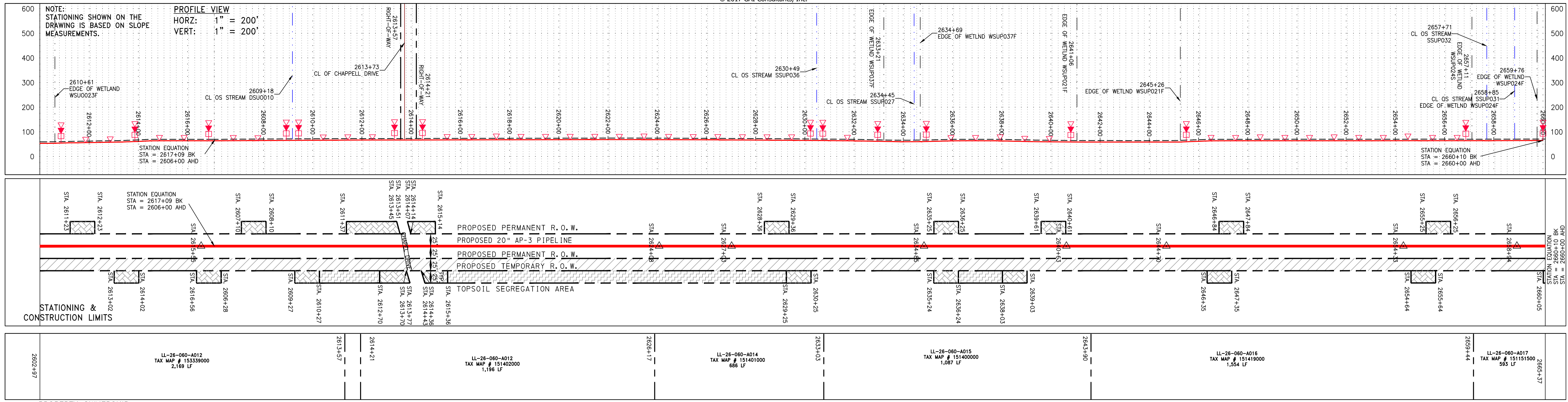
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6/19/2017 9:22 AM

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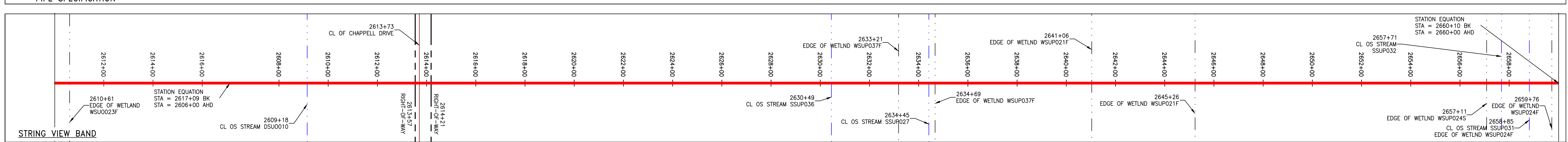


STATIONING & CONSTRUCTION LIMITS

PROPERTY OWNERSHIP



PIPE SPECIFICATION



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>--- PROPERTY LINE</li> <li>X X FENCE</li> <li>G G EXISTING GAS PIPELINE</li> <li>OH OH OVERHEAD UTILITY LINES</li> <li>--- ACCESS ROAD</li> <li>--- PROPOSED PERMANENT EASEMENT</li> <li>--- PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> <li>--- STORM SEWER</li> <li>--- UNDERGROUND ELECTRIC</li> <li>--- WATER LINE</li> <li>--- SANITARY SEWER</li> <li>--- EDGE OF GRAVEL</li> <li>--- PROPOSED PERMANENT R.O.W.</li> <li>--- PROPOSED TEMPORARY R.O.W.</li> <li>--- TOPSOIL SEGREGATION AREA</li> <li>--- AREA OF NO DISTURBANCE</li> <li>--- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</li> <li>--- UTILITY POLE</li> <li>▲ PERMANENT WATERBAR/SLOPE BREAKER</li> <li>▲ TEMPORARY WATERBAR/SLOPE BREAKER</li> <li>▲ TRENCH BREAKER/PLUG</li> <li>◇ STREAM CROSSING</li> <li>◇ USFWS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li>◇ SEEP</li> <li>▲ SLOPE DIRECTION</li> <li>▲ CONSTRUCTION ENTRANCE WITH DITCH</li> <li>▲ CULVERT AS NEEDED</li> <li>▲ CULVERT/WATERBAR</li> <li>--- LIMIT OF DISTURBANCE</li> <li>--- BELTED SILT RETENTION FENCE (BSRF)</li> <li>--- COMPOST FILTER SOCK</li> <li>--- SEDIMENT BARRIER IDENTIFICATION</li> <li>--- CULVERT IDENTIFICATION</li> <li>--- ORANGE SAFETY FENCE</li> <li>--- ROADSIDE DITCH</li> <li>--- SOIL TYPE</li> <li>--- TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>2. 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.</li> <li>3. IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>4. THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; 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.</li> <li>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>7. ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>10. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</li> <li>11. 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.</li> <li>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.</li> <li>13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.</li> </ol>
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NO.	DATE	CHKD.	APPROD.	DESCRIPTION

CONSTRUCTION ALIGNMENT STA 2610+00 TO 2660+00

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

SCALE: AS SHOWN  
DATE: 6/19/17  
DRAWN: JMS  
CHECKED: DLH  
APPROVED: NET

gai consultants

SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
PITTSBURGH, PA 15207  
724-873-3545

mbe monaloh basin engineers

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

PROJECT NO./DASH NO.  
14048

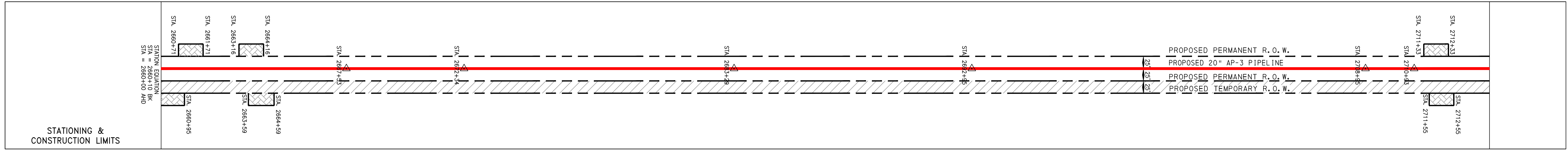
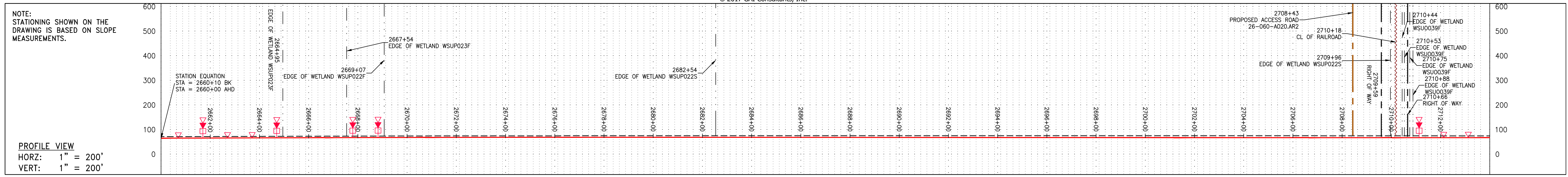
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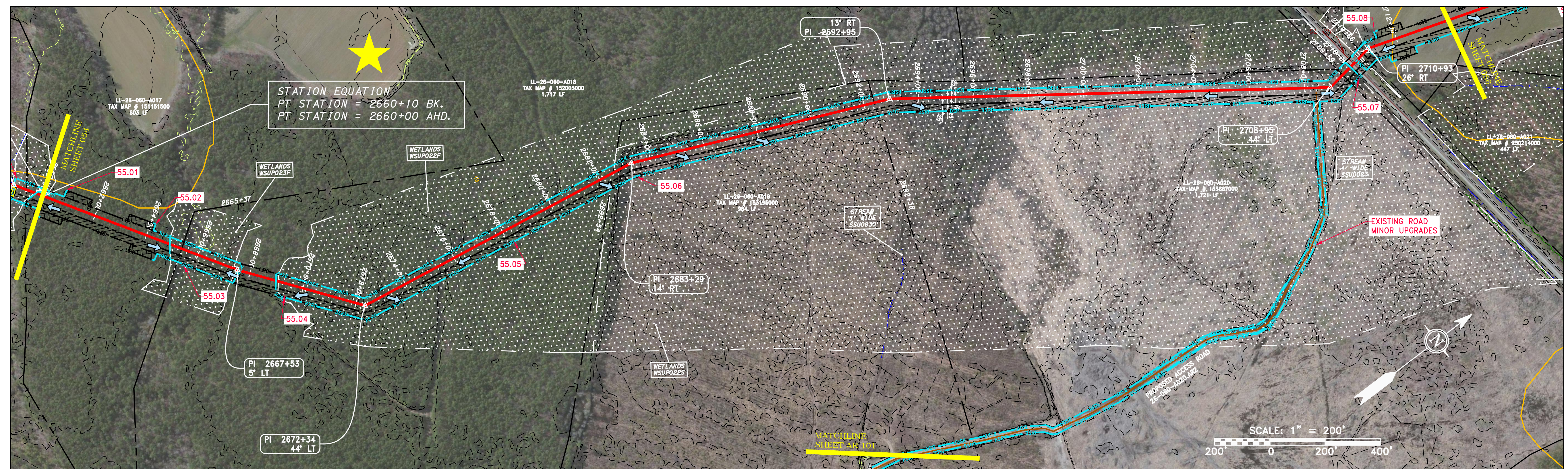
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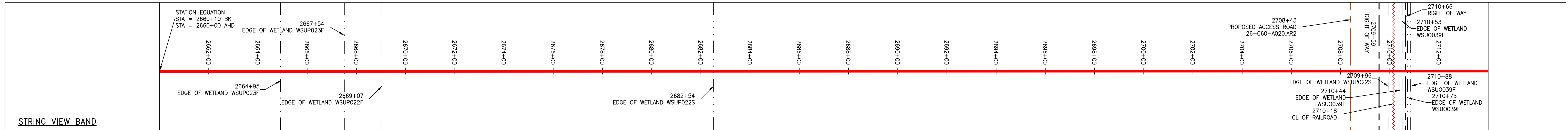




PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-26-060-A017 TAX MAP # 151151500 603 LF	2660+00 to 2665+37
LL-26-060-A016 TAX MAP # 152005000 1,717 LF	2665+37 to 2682+54
LL-26-060-A019 TAX MAP # 153195000 984 LF	2682+54 to 2692+38
LL-26-060-A020 TAX MAP # 153887000 1,721 LF	2692+38 to 2709+59
LL-26-060-A021 TAX MAP # 250214000 447 LF	2709+59 to 2715+13



**PIPE SPECIFICATION**



**LEGEND**

--- PROPERTY LINE	--- STORM SEWER	--- EXTRA WORK SPACE	--- TOPSOIL SEGREGATION AREA	--- PERMANENT WATERBAR/SLOPE BREAKER	--- BELTED SILT RETENTION FENCE (BSRF)	--- LIMIT OF DISTURBANCE
-X-X- FENCE	-E- UNDERGROUND ELECTRIC	--- AREA OF NO DISTURBANCE	--- PROPOSED TEMPORARY R.O.W.	--- TEMPORARY WATERBAR/SLOPE BREAKER	--- COMPOST FILTER SOCK	--- SEDIMENT BARRIER IDENTIFICATION
-G-G- EXISTING GAS PIPELINE	-W- WATER LINE	--- WETLAND	--- UTILITY POLE	--- TRENCH BREAKER/PLUG	--- C 111.001	--- C 111.001
-OH- OVERHEAD UTILITY LINES	-SAN- SANITARY SEWER	--- (COLOR SHOWN TO PROVIDE CLARITY ONLY)	---	--- STREAM CROSSING	--- ORANGE SAFETY FENCE	--- ROADSIDE DITCH
-A- ACCESS ROAD	--- EDGE OF GRAVEL	---	---	--- USFWS STREAM CROSSING WITH ENHANCED CONTROLS	---	---
--- PROPOSED GAS PIPELINE	--- PROPOSED PERMANENT EASEMENT	---	---	--- SEEP	---	---
---	--- PROPOSED GAS PIPELINE (NO GROUND SURVEY)	---	---	--- SLOPE DIRECTION	---	---
---	---	---	---	--- CONSTRUCTION ENTRANCE WITH DITCH	---	---
---	---	---	---	--- CULVERT AS NEEDED	---	---
---	---	---	---	--- CULVERT/WATERBAR	---	---

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- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONAL PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

**REVISIONS**

NO.	DATE	CHKD.	APPD.	DESCRIPTION

**Professional Engineer**  
DANIEL R. GOLDSTEIN  
Lic. No. 047436

**ERM**

**20" AP-3 PIPELINE**  
CONSTRUCTION ALIGNMENT STA 2660+00 TO 2714+00  
CITY OF SUFFOLK, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 6/19/17  
DRAWN: JMS  
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

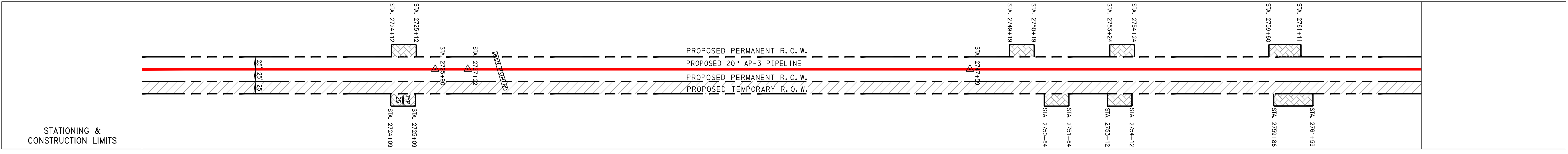
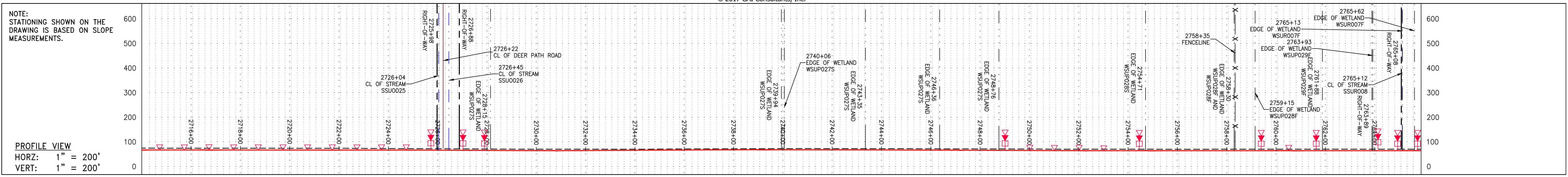
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140468

TASK NO.	SUB TASK NO.
005	00

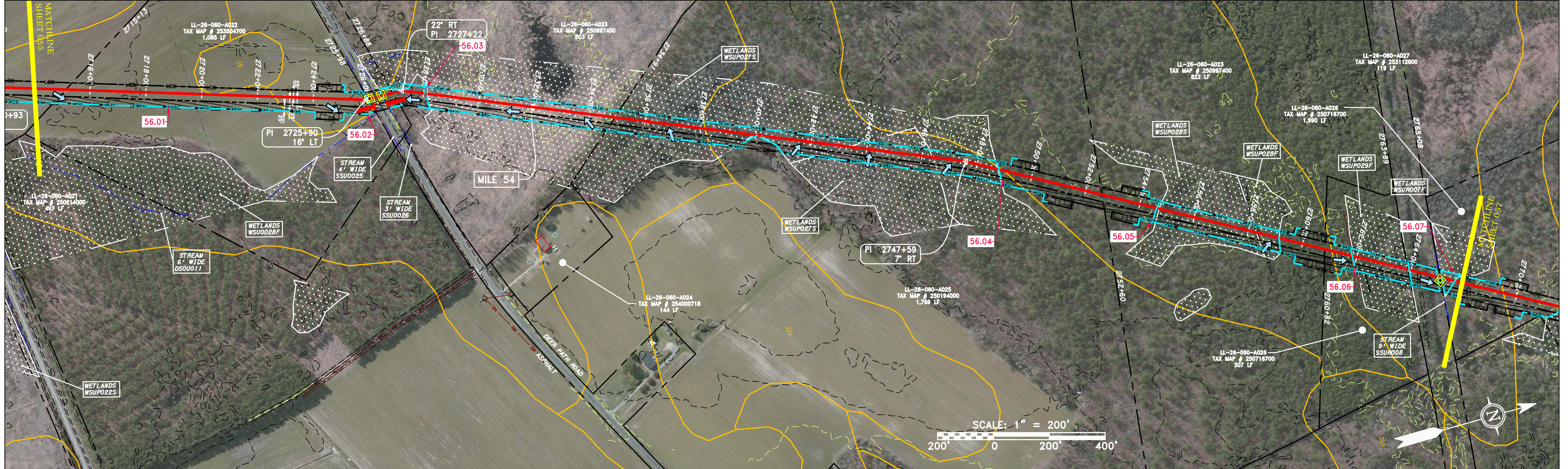
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DRAWING NO.: E055

055 OF 84

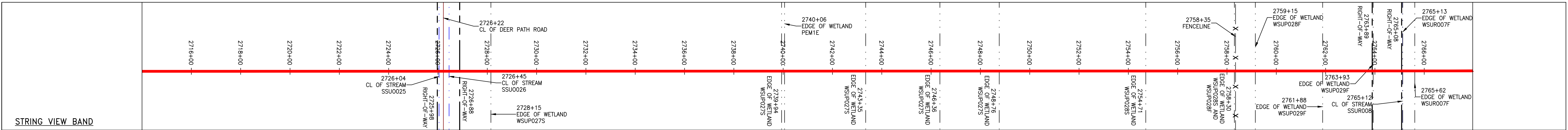




PROPERTY OWNERSHIP	STATIONING	DESCRIPTION
LL-26-060-A118 TAX MAP # 23504500 447 LF	2715+13	
LL-26-060-A022 TAX MAP # 23504700 1,085 LF	2724+12	
LL-26-060-A023 TAX MAP # 25097400 803 LF	2725+12	
LL-26-060-A023 TAX MAP # 25097400 822 LF	2734+91	
LL-26-060-A025 TAX MAP # 25019400 1,769 LF	2740+00	
LL-26-060-A023 TAX MAP # 25097400 822 LF	2750+00	
LL-26-060-A026 TAX MAP # 250716700 307 LF	2759+60	
LL-26-060-A026 TAX MAP # 250716700 1,990 LF	2764+50	



**PIPE SPECIFICATION**



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>--- PROPERTY LINE</li> <li>-X-X- FENCE</li> <li>-G-G- EXISTING GAS PIPELINE</li> <li>-OH- OVERHEAD UTILITY LINES</li> <li>- - - ACCESS ROAD</li> <li>- - - STORM SEWER</li> <li>-E- UNDERGROUND ELECTRIC</li> <li>-W- WATER LINE</li> <li>-SAN- SANITARY SEWER</li> <li>- - - EDGE OF GRAVEL</li> <li>- - - PROPOSED PERMANENT EASEMENT</li> <li>- - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> </ul>	<ul style="list-style-type: none"> <li>EXTRA WORK SPACE</li> <li>AREA OF NO DISTURBANCE</li> <li>WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</li> <li>TOPSOIL SEGREGATION AREA</li> <li>PROPOSED TEMPORARY R.O.W.</li> <li>UTILITY POLE</li> </ul>	<ul style="list-style-type: none"> <li>PERMANENT WATERBAR/SLOPE BREAKER</li> <li>TEMPORARY WATERBAR/SLOPE BREAKER</li> <li>TRENCH BREAKER/PLUG</li> <li>STREAM CROSSING</li> <li>USPWS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li>SEEP</li> <li>SLOPE DIRECTION</li> <li>CONSTRUCTION ENTRANCE WITH DITCH</li> <li>CULVERT AS NEEDED</li> <li>CULVERT/WATERBAR</li> </ul>	<ul style="list-style-type: none"> <li>L00</li> <li>111.03</li> <li>C 111.001</li> <li>ORANGE SAFETY FENCE</li> <li>ROADSIDE DITCH</li> <li>SOIL TYPE</li> <li>A1 (L) 30-58%</li> <li>TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>2. 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.</li> <li>3. IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>4. THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; 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.</li> <li>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>7. ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>10. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES PLAN.</li> <li>11. 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.</li> <li>12. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE DESIGN AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS DRAWING.</li> <li>13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONAL PERMIT 1E (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.</li> </ol>
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**REVISIONS**

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

**Daniel R. Goldstein**  
 Daniel R. Goldstein  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

**ERM**

**20" AP-3 PIPELINE**  
 CONSTRUCTION ALIGNMENT STA 2714+00 TO 2766+00  
 CITY OF SUFFOLK, VIRGINIA

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

SCALE: AS SHOWN  
 DATE: 6/19/17  
 DRAWN: JMS  
 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

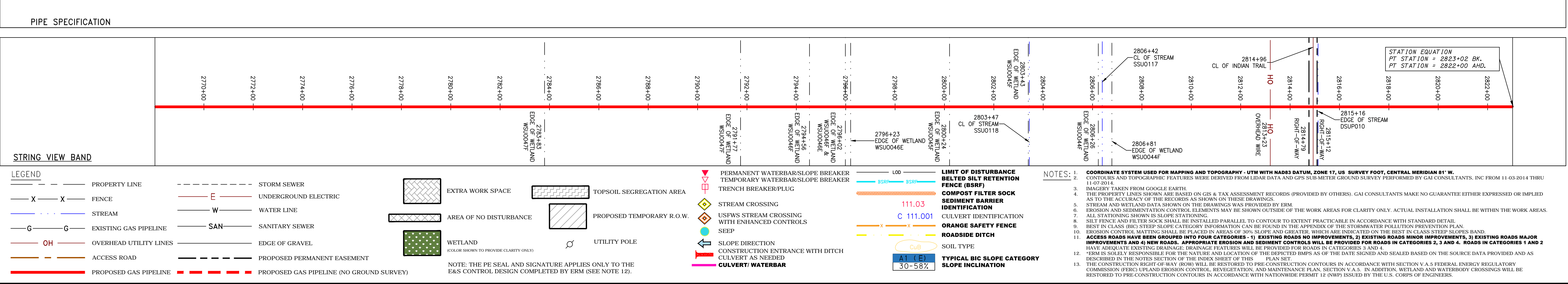
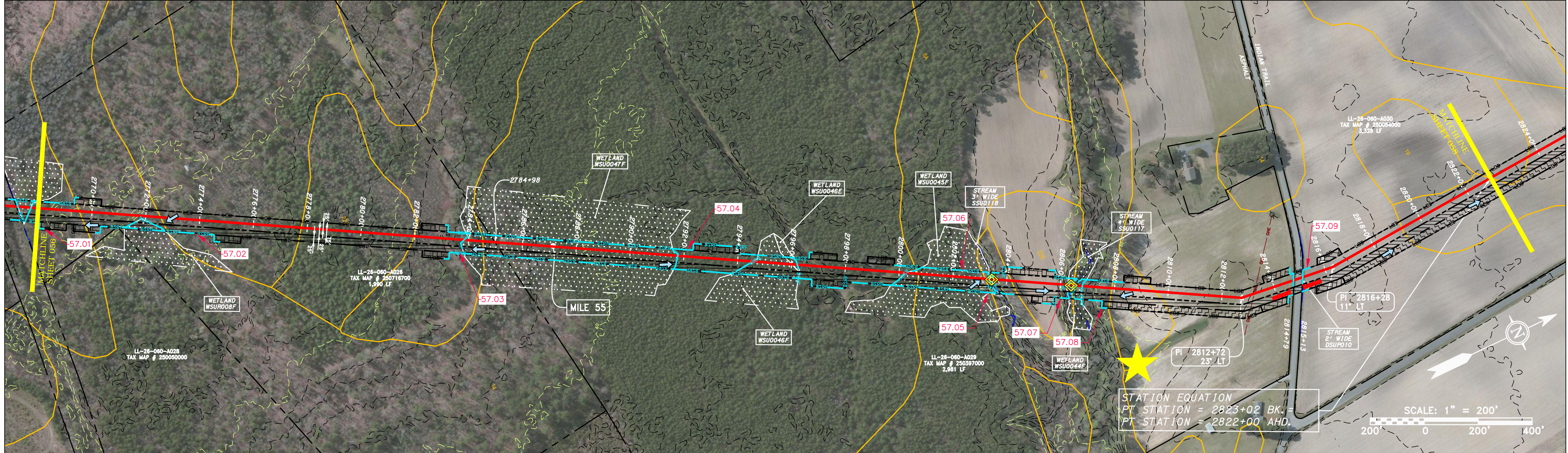
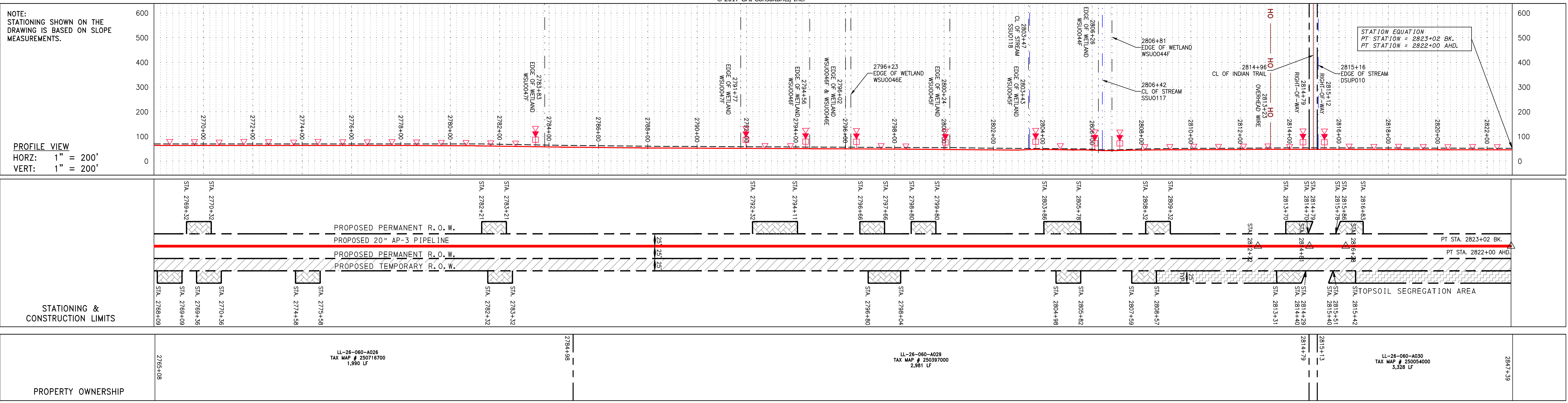
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005	00

GROUP ID: D  
 DRAWING NO.: E056

056 OF 84

6/19/2017 9:47 AM





REVISIONS		DESCRIPTION
NO.	DATE	CHKD. APPD.

**Daniel R. Goldstein**  
 Daniel R. Goldstein  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

**ERM**

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

**CONSTRUCTION ALIGNMENT STA 2766+00 TO 2822+00**  
 CITY OF SUFFOLK, VIRGINIA

SCALE: AS SHOWN  
 DATE: 6/19/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

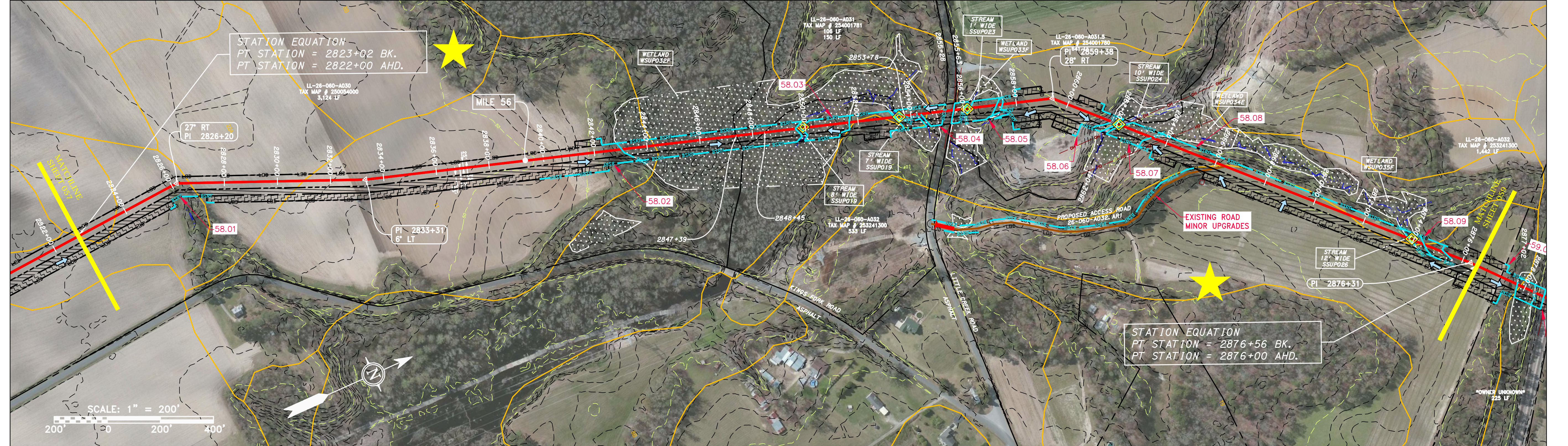
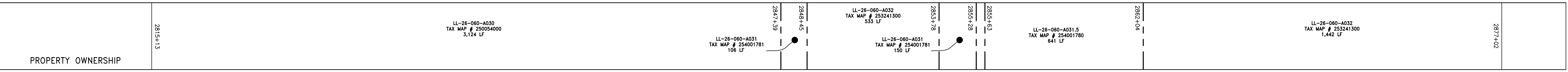
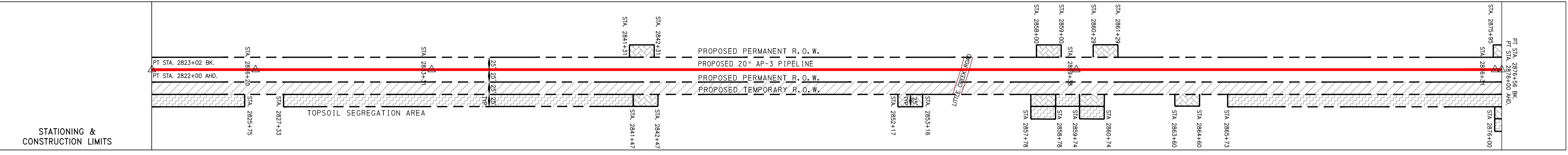
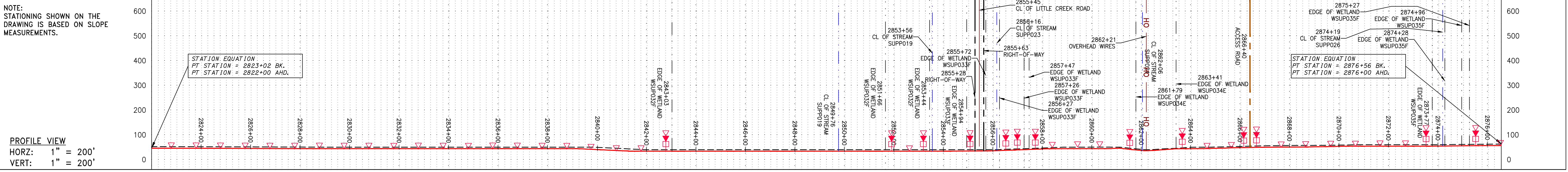
**gai consultants**  
 SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-873-3545

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

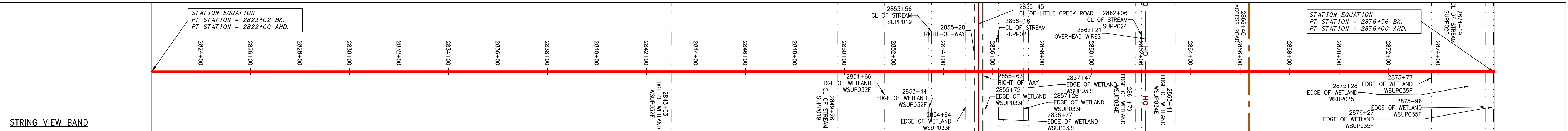
PROJECT NO./DASH NO.	140468	
TASK NO.	SUB TASK NO.	005 00
GROUP ID	DRAWING NO.	D E057
057	OF 84	

6/19/2017 10:10 AM





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.
-G-G- EXISTING GAS PIPELINE	-W- WATER LINE	--- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	--- UTILITY POLE
-OH- OVERHEAD UTILITY LINES	-SAN- SANITARY SEWER	--- LIMIT OF DISTURBANCE	--- BELTED SILT RETENTION FENCE (BSRF)
-A- ACCESS ROAD	-E- EDGE OF GRAVEL	--- COMPOST FILTER SOCK	--- SEDIMENT BARRIER IDENTIFICATION
-G- PROPOSED GAS PIPELINE (NO GROUND SURVEY)	-E- PROPOSED PERMANENT EASEMENT	--- CULVERT IDENTIFICATION	--- ORANGE SAFETY FENCE
		--- SLOPE DIRECTION	--- ROADSIDE DITCH
		--- CONSTRUCTION ENTRANCE WITH DITCH	--- SOIL TYPE
		--- CULVERT/WATERBAR	--- TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

**NOTES:**

1. 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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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) STEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
9. BEST IN CLASS CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS SLOPE PLAN.
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NO.	DATE	CHKD.	APPROD.	DESCRIPTION

**REVISIONS**

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

**CONSTRUCTION ALIGNMENT STA 2822+00 TO 2876+00**  
 CITY OF SUFFOLK, VIRGINIA

**DANIEL R. GOLDSTEIN**  
 Lic. No. 047436

**ERM**

SCALE:	AS SHOWN
DATE:	6/21/17
DRAWN:	JMS
CHECKED:	DLH
APPROVED:	NET

**gai consultants**

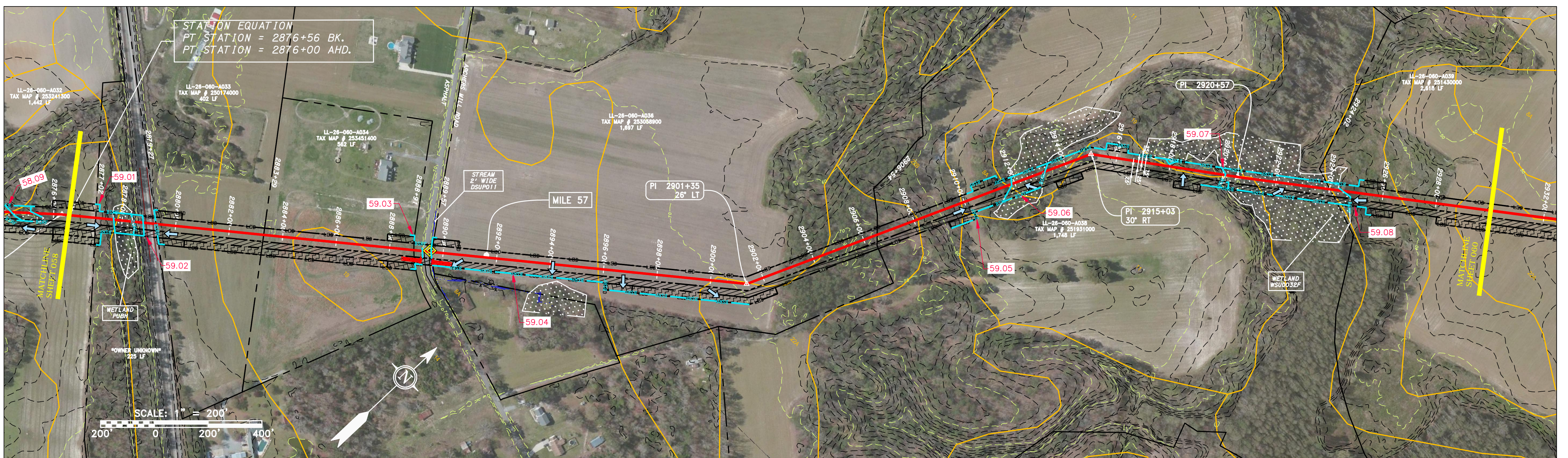
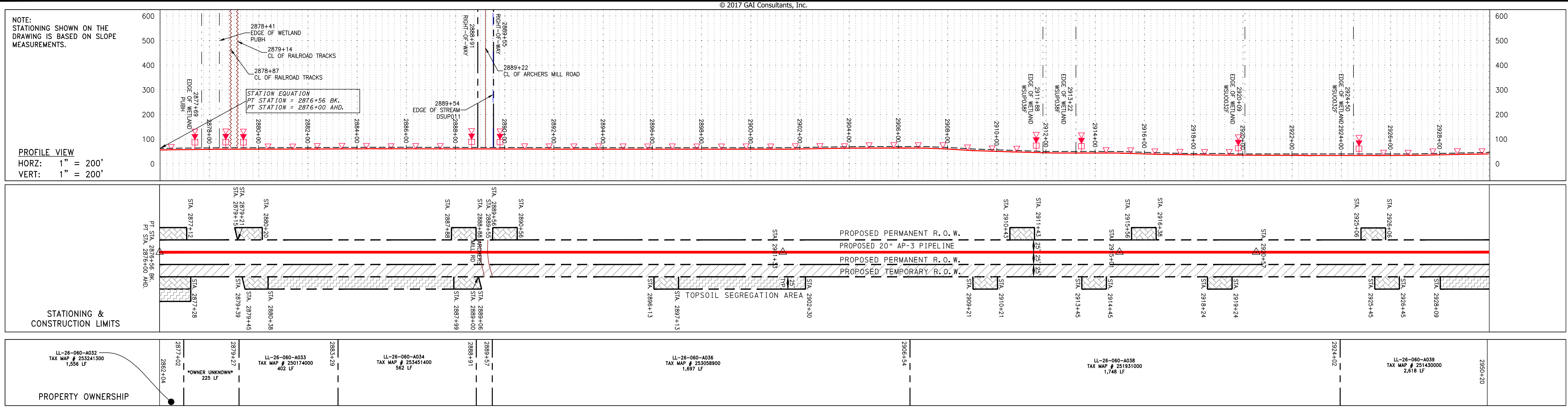
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 PITTSBURGH, PA 15317  
 724-873-3545

**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 E058
058	OF 84	





**PIPE SPECIFICATION**

**STRING VIEW BAND**

**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	---	EDGE OF GRAVEL	---	UTILITY POLE
OH	OVERHEAD UTILITY LINES	---	PROPOSED PERMANENT EASEMENT	---	PROPOSED PERMANENT R.O.W.	---	UTILITY POLE
---	ACCESS ROAD	---	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	---	PROPOSED GAS PIPELINE	---	UTILITY POLE

**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 SUBMETER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
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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) STEP 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 STEP SLOPE 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.
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**REVISIONS**

NO.	DATE	CHKD.	APPD.	DESCRIPTION

**PROFESSIONAL ENGINEER**  
 DANIEL R. GOLDSTEIN  
 Lic. No. 047436

**ERM**

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

**CONSTRUCTION ALIGNMENT STA 2876+00 TO 2930+00**  
 CITY OF SUFFOLK, VIRGINIA

SCALE: AS SHOWN  
 DATE: 6/19/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

**gai consultants**

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

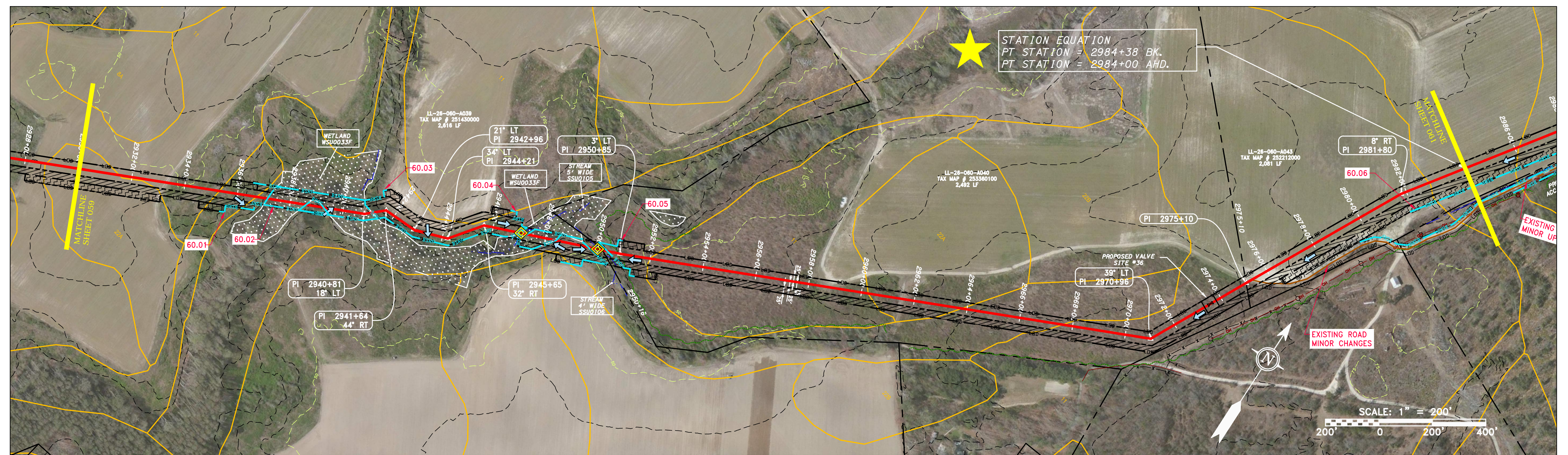
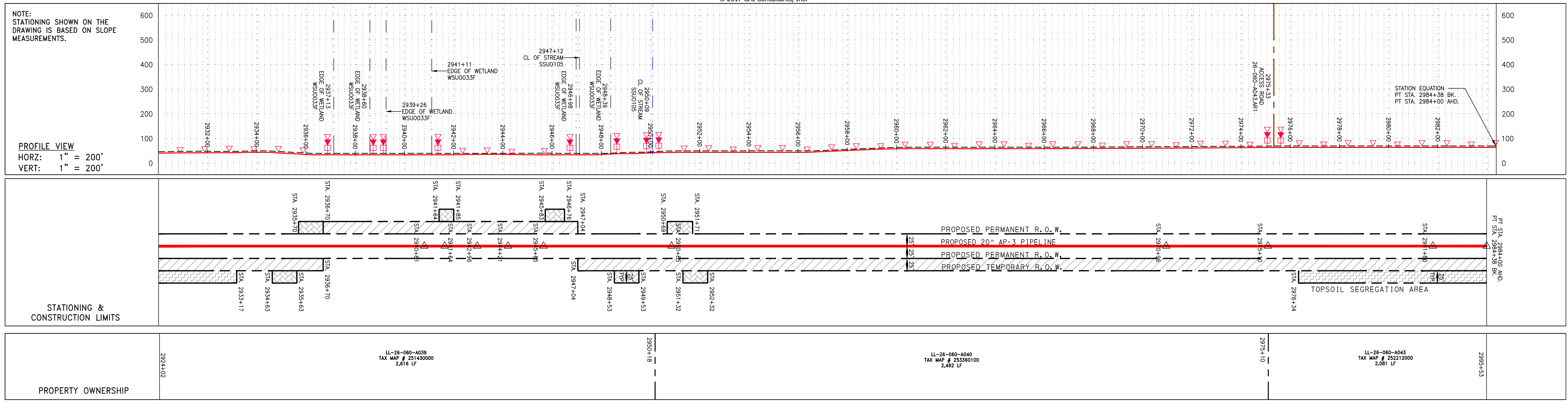
**mbe monaloh basin engineers**

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 E059  
 059 OF 84

6/19/2017 10:25 AM





**PIPE SPECIFICATION**

**STRING VIEW BAND**

**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	---	(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)	---		---	

**NOTES:**

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- 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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- BEST IN CLASS (BIC) STEP 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 STEP 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.
- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONAL PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.

**REVISIONS**

NO.	DATE	CHKD.	APPROV.	DESCRIPTION

**Professional Engineer**  
 Daniel R. Goldstein  
 Lic. No. 047436

**ERM**

**CONSTRUCTION ALIGNMENT STA 2930+00 TO 2984+00**  
 CITY OF SUFFOLK, VIRGINIA

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

SCALE: AS SHOWN  
 DATE: 6/19/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

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