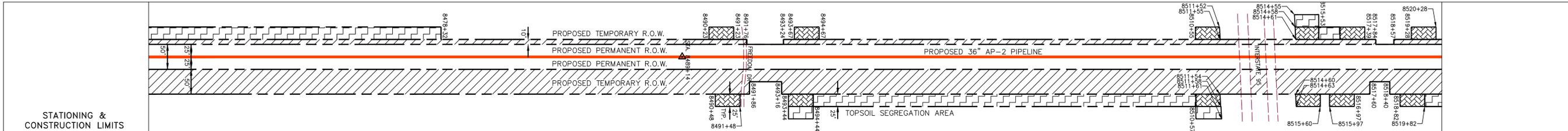
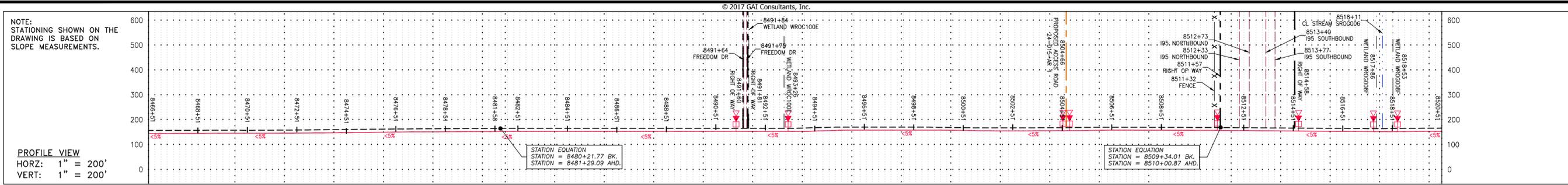
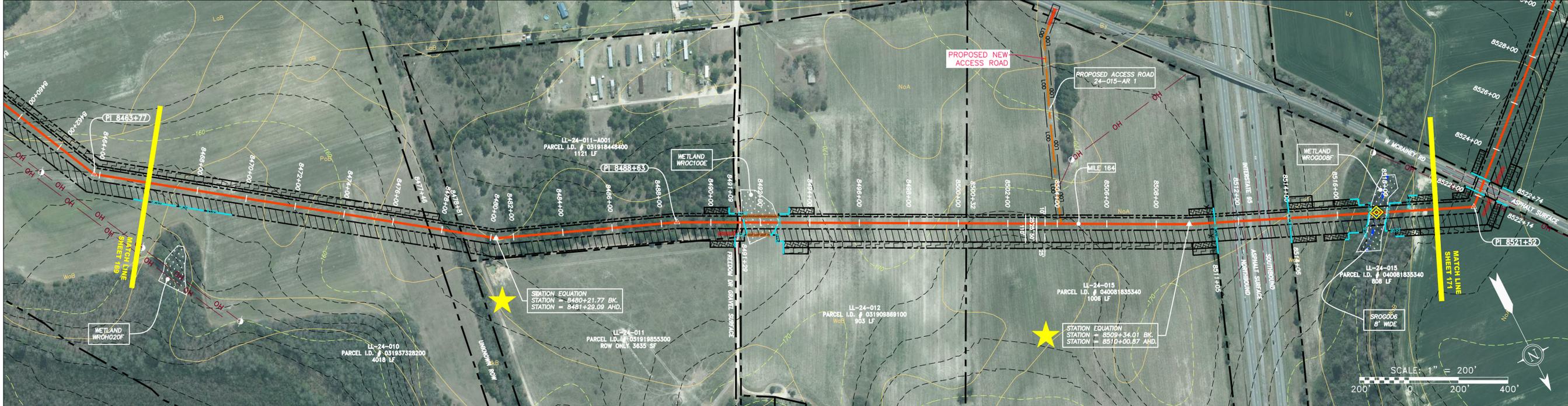




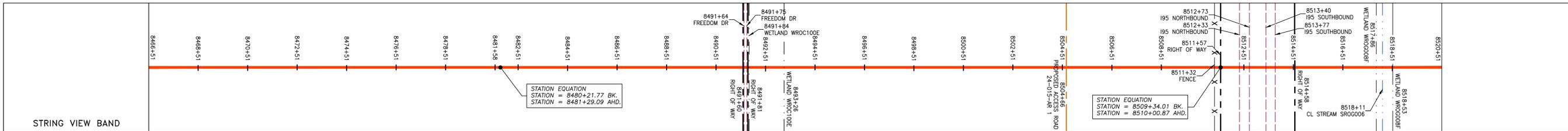
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PROPERTY OWNERSHIP
LL-24-010 PARCEL I.D. # 031937328200 4018 LF
UNKNOWN ROW 135 LF
LL-24-011-A001 PARCEL I.D. # 031918448400 1121 LF
LL-24-011 PARCEL I.D. # 031919855300 ROW ONLY 3635 SF
LL-24-012 PARCEL I.D. # 031909869100 903 LF
LL-24-015 PARCEL I.D. # 040081835340 1006 LF
301 LF
LL-24-015 PARCEL I.D. # 040081835340 808 LF



PIPE SPECIFICATION
8466+51
8468+51
8470+51
8472+51
8474+51
8476+51
8478+51
8480+51
8482+51
8484+51
8486+51
8488+51
8490+51
8492+51
8494+51
8496+51
8498+51
8500+51
8502+51
8504+51
8506+51
8508+51
8510+51
8512+51
8514+51
8516+51
8518+51
8520+51



### LEGEND

PROPERTY LINE	UNDERGROUND ELECTRIC	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA	PERMANENT WATERBAR/SLOPE BREAKER	LIMIT OF DISTURBANCE
FENCE	WATER LINE	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.	TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
STREAM	SANITARY SEWER	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE	TRENCH BREAKER/PLUG	COIR LOG
EXISTING GAS PIPELINE	EDGE OF GRAVEL			USFS STREAM CROSSING WITH ENHANCED CONTROLS	COMPOST FILTER SOCK
OVERHEAD UTILITY LINES	PROPOSED PERMANENT EASEMENT			CONSTRUCTION ENTRANCE WITH DITCH	ORANGE SAFETY FENCE
ACCESS ROAD	PROPOSED GAS PIPELINE (NO GROUND SURVEY)			CULVERT WATERBAR	ROADSIDE DITCH
PROPOSED GAS PIPELINE					SOIL TYPE

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).

### 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.
- 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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NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

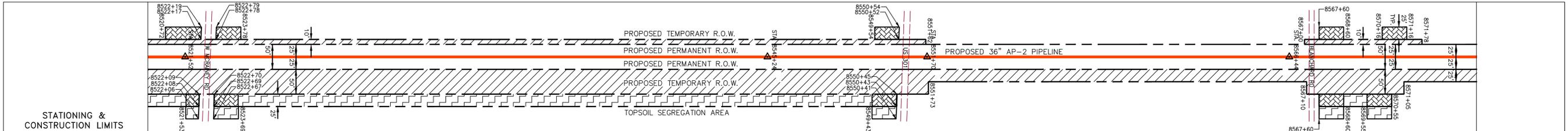
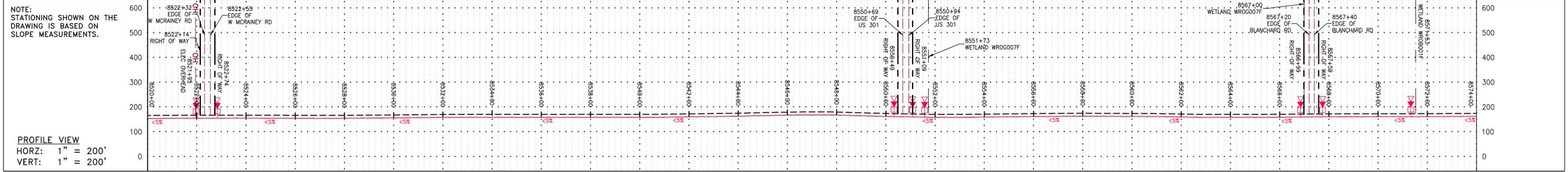
**ATLANTIC COAST PIPELINE, LLC**  
C/O DOMINION TRANSMISSION, INC.  
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

**36" AP-2 PIPELINE**  
CONSTRUCTION ALIGNMENT STA 8466+00 TO 8520+00  
ROBESON COUNTY, NORTH CAROLINA

SCALE: AS SHOWN
DATE: 06/09/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET

gai consultants - NC, inc.  
4198 COX ROAD  
SUITE 114  
GLEN ALLEN, VA 23060  
804-270-9357  
N.C. COL. #0269

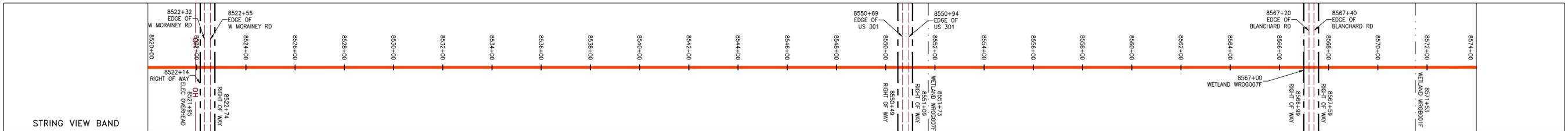
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TASK NO. SUB TASK NO.	<b>005 00</b>
GROUP ID DRAWING NO.	<b>D E170</b>
<b>170</b> OF <b>189</b>	



PROPERTY OWNERSHIP	PARCEL I.D. #	AREA (LF)
LL-24-015	040081835340	2775 LF
LL-24-016	030949778800	1590 LF
LL-24-018	030927862800	3489 LF



PIPE SPECIFICATION
36" AP-2 PIPELINE



**LEGEND**

- PROPERTY LINE
- FENCE
- STREAM
- EXISTING GAS PIPELINE
- OH OVERHEAD UTILITY LINES
- ACCESS ROAD
- PROPOSED GAS PIPELINE
- UNDERGROUND ELECTRIC
- WATER LINE
- SANITARY SEWER
- EDGE OF GRAVEL
- PROPOSED PERMANENT EASEMENT
- PROPOSED GAS PIPELINE (NO GROUND SURVEY)

**EXTRA WORK SPACE**

**AREA OF NO DISTURBANCE**

**WETLAND** (EDGE SHOWN TO PROVIDE CLARITY ONLY)

**TOPSOIL SEGREGATION AREA**

**PROPOSED TEMPORARY R.O.W.**

**UTILITY POLE**

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).

**PERMANENT WATERBAR/SLOPE BREAKER**

**TEMPORARY WATERBAR/SLOPE BREAKER**

**TRENCH BREAKER/PLUG**

**STREAM CROSSING**

**USFWS STREAM CROSSING WITH ENHANCED CONTROLS**

**CONSTRUCTION ENTRANCE WITH DITCH**

**CULVERT/ WATERBAR**

**LOD LIMIT OF DISTURBANCE**

**BSRF BELTED SILT RETENTION FENCE (BSRF)**

**COIR LOG**

**COMPOST FILTER SOCK**

**ORANGE SAFETY FENCE**

**ROADSIDE DITCH**

**SOIL TYPE**

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 8520+00 TO 8574+00**  
 ROBESON COUNTY, NORTH CAROLINA

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

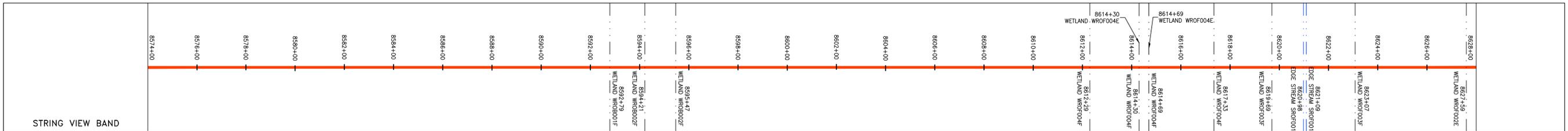
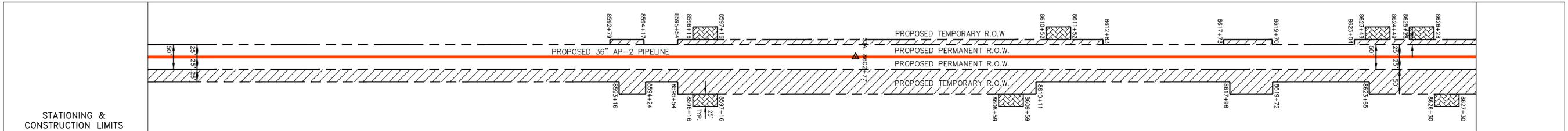
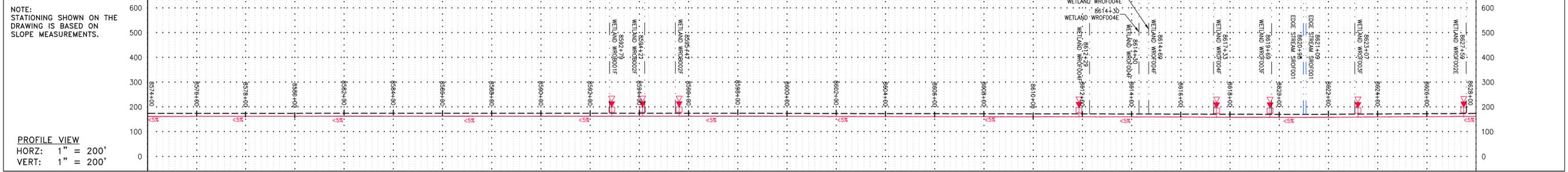
SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.  
 4198 COX ROAD  
 SUITE 114  
 GLEN ALLEN, VA 23060  
 804-270-9357  
 N.C. COL #P-0269

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E171
171 OF 189	

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 11\SHEETS - 168-172 (51-55).DWG

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**LEGEND**

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	PERMANENT WATERBAR/SLOPE BREAKER	LIMIT OF DISTURBANCE
FENCE	UNDERGROUND ELECTRIC	TOPSOIL SEGREGATION AREA	TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
STREAM	WATER LINE	AREA OF NO DISTURBANCE	STREAM CROSSING	COIR LOG
EXISTING GAS PIPELINE	SANITARY SEWER	PROPOSED TEMPORARY R.O.W.	USFWS STREAM CROSSING	COMPOSITE FILTER SOCK
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	WETLAND	CONSTRUCTION ENTRANCE WITH DITCH	ORANGE SAFETY FENCE
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	UTILITY POLE	CULVERT/WATERBAR	ROADSIDE DITCH
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)			SOIL TYPE

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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**NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).**

REVISIONS		DESCRIPTION
NO.	DATE	
CHKD.	DWN.	
APPD.		

**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 8574+00 TO 8628+00**  
 ROBESON COUNTY, NORTH CAROLINA  
**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

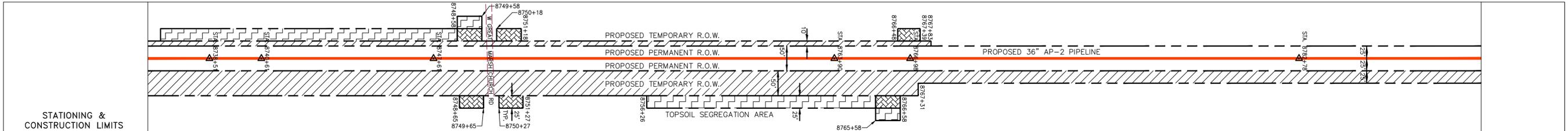
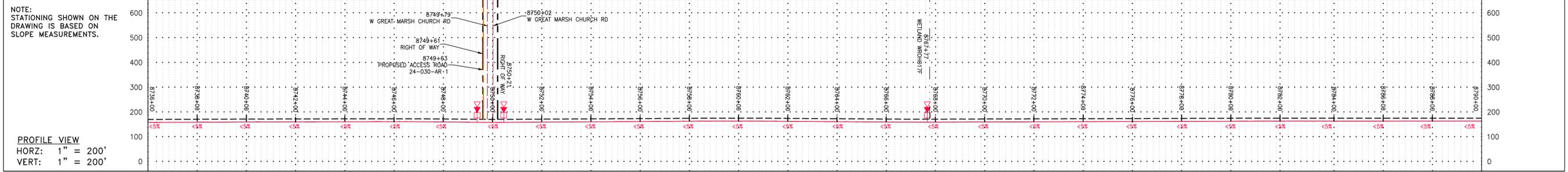
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DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.  
 4198 COX ROAD  
 SUITE 114  
 GLEN ALLEN, VA 23060  
 804-270-9357  
 N.C. COL #0269

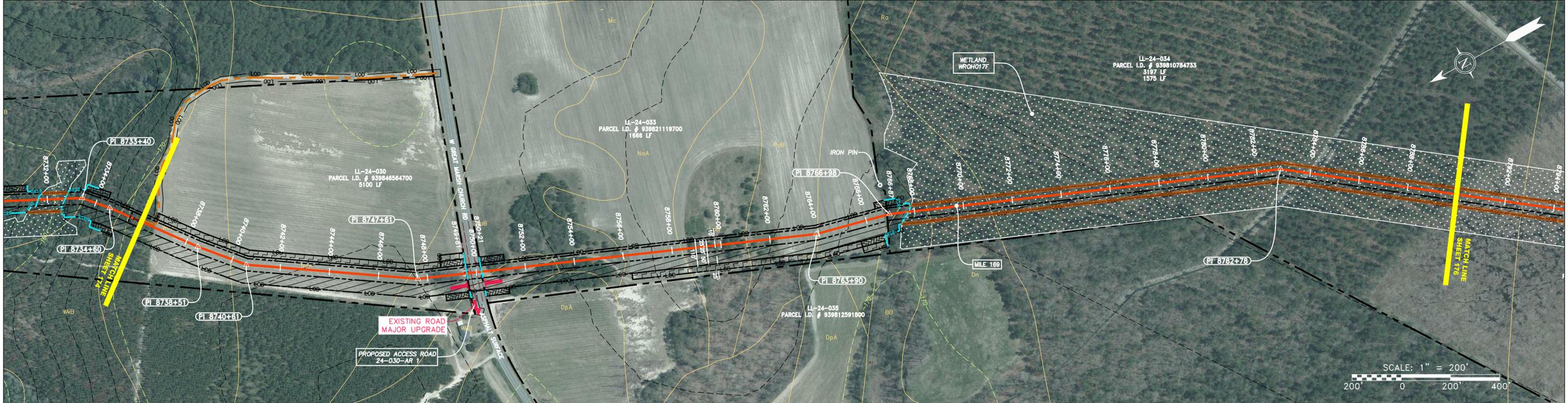
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TASK NO.	005	00
GROUP ID	D	E172
172	OF	189



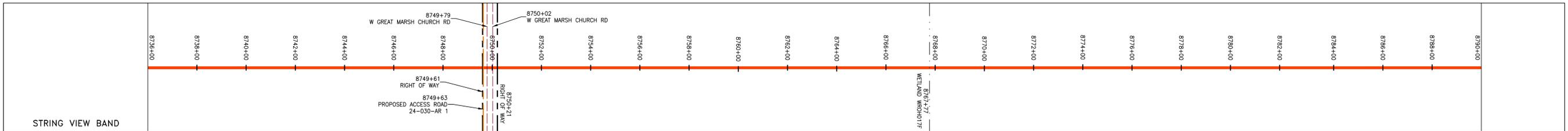




PROPERTY OWNERSHIP	PARCEL I.D. #	AREA (LF)
LL-24-030	#939846564700	5100 LF
LL-24-033	#939821119700	1666 LF
LL-24-034	#939810784733	3197 LF



PIPE SPECIFICATION



<b>LEGEND</b> - - - PROPERTY LINE X - X FENCE --- STREAM G - G EXISTING GAS PIPELINE OH --- OVERHEAD UTILITY LINES --- ACCESS ROAD --- PROPOSED GAS PIPELINE --- UNDERGROUND ELECTRIC --- WATER LINE --- SANITARY SEWER --- EDGE OF GRAVEL --- PROPOSED PERMANENT EASEMENT --- PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Symbol] EXTRA WORK SPACE [Symbol] AREA OF NO DISTURBANCE [Symbol] WETLAND [Symbol] TOPSOIL SEGREGATION AREA [Symbol] PROPOSED TEMPORARY R.O.W. [Symbol] UTILITY POLE [Symbol] PERMANENT WATERBAR/SLOPE BREAKER [Symbol] TEMPORARY WATERBAR/SLOPE BREAKER [Symbol] TRENCH BREAKER/PLUG [Symbol] STREAM CROSSING [Symbol] USFWS STREAM CROSSING WITH ENHANCED CONTROLS [Symbol] CONSTRUCTION ENTRANCE WITH DITCH [Symbol] CULVERT AS NEEDED [Symbol] CULVERT/ WATERBAR	[Symbol] LOD LIMIT OF DISTURBANCE [Symbol] BSRF BELTED SILT RETENTION FENCE (BSRF) [Symbol] COIR LOG [Symbol] COMPOST FILTER SOCK [Symbol] ORANGE SAFETY FENCE [Symbol] ROADSIDE DITCH [Symbol] SOIL TYPE	<b>NOTES:</b> 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W. 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. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. 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. 5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 7. ALL STATIONING SHOWN IS SLOPE STATIONING. 8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. 9. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS WITH MINOR IMPROVEMENTS, 2) EXISTING ROADS WITH MAJOR IMPROVEMENTS, 3) EXISTING ROADS WITH MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 10. 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

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

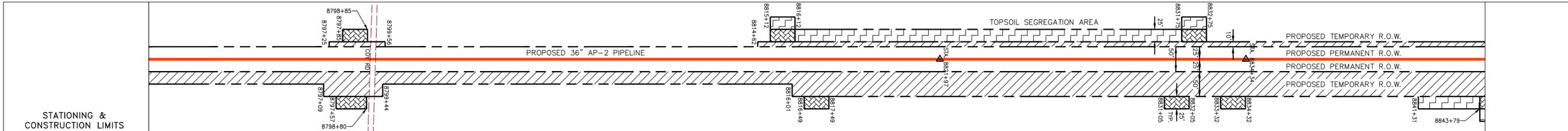
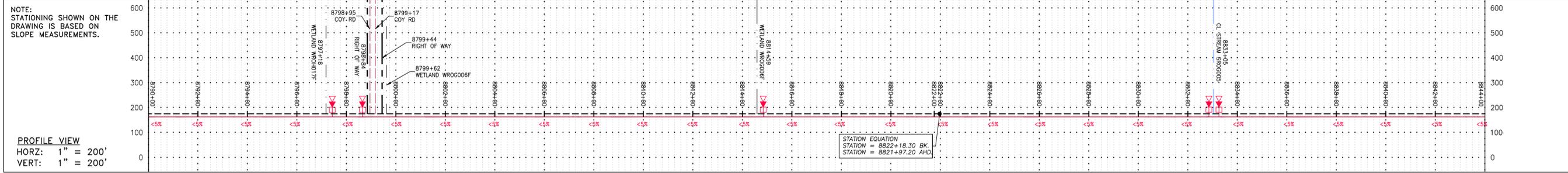
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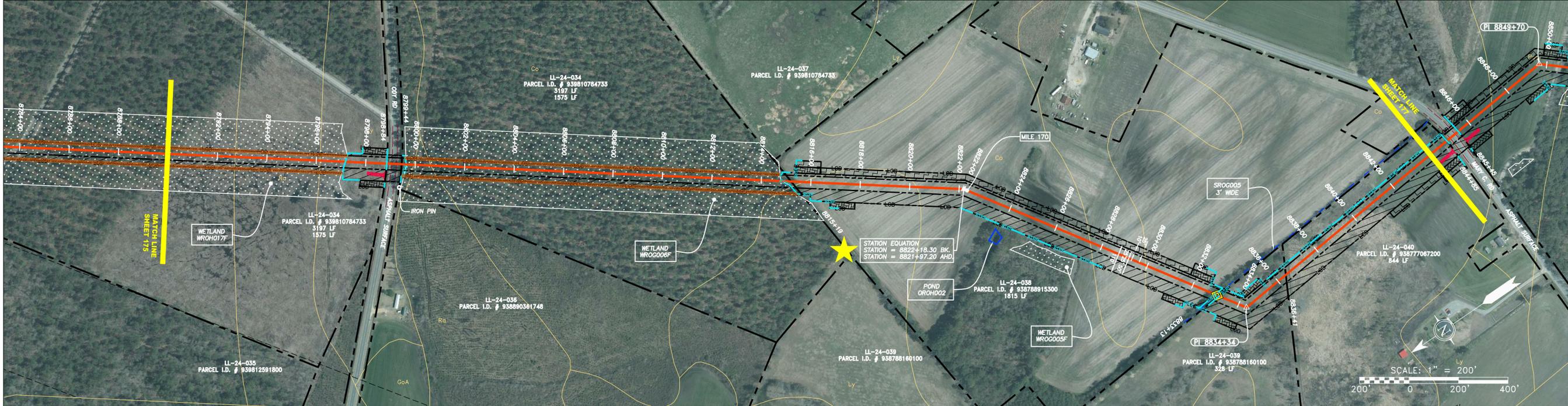
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TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E175
175 OF 189	

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 11\SHEETS - 173-177 (56-60).DWG

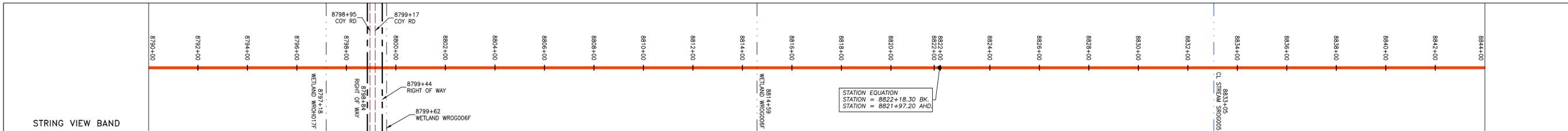
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PROPERTY OWNERSHIP
LL-24-034 PARCEL I.D. # 939810784733 3197 LF
LL-24-034 PARCEL I.D. # 939810784733 1575 LF
LL-24-038 PARCEL I.D. # 938788915300 1815 LF
LL-24-039 PARCEL I.D. # 938788160100 328 LF
LL-24-040 PARCEL I.D. # 93877067200 844 LF



PIPE SPECIFICATION
8790+00
8792+00
8794+00
8796+00
8798+00
8800+00
8802+00
8804+00
8806+00
8808+00
8810+00
8812+00
8814+00
8816+00
8818+00
8820+00
8822+00
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8830+00
8832+00
8834+00
8836+00
8838+00
8840+00
8842+00
8844+00



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>— X — X — PROPERTY LINE</li> <li>— F — F — FENCE</li> <li>— S — S — STREAM</li> <li>— G — G — EXISTING GAS PIPELINE</li> <li>— OH — OH — OVERHEAD UTILITY LINES</li> <li>— A — A — ACCESS ROAD</li> <li>— P — P — PROPOSED GAS PIPELINE</li> <li>— E — E — UNDERGROUND ELECTRIC</li> <li>— W — W — WATER LINE</li> <li>— SAN — SAN — SANITARY SEWER</li> <li>— EG — EG — EDGE OF GRAVEL</li> <li>— PE — PE — PROPOSED PERMANENT EASEMENT</li> <li>— PG — PG — 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>▲ USFWS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li>▲ CONSTRUCTION ENTRANCE WITH DITCH</li> <li>▲ CULVERT WATERBAR</li> <li>— LOD — LIMIT OF DISTURBANCE</li> <li>— BSRF — BELTED SILT RETENTION FENCE (BSRF)</li> <li>— COIR LOG — COIR LOG</li> <li>— COMPOST FILTER SOCK — COMPOST FILTER SOCK</li> <li>— ORANGE SAFETY FENCE — ORANGE SAFETY FENCE</li> <li>— ROADSIDE DITCH — ROADSIDE DITCH</li> <li>— CuB — SOIL TYPE</li> </ul>
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  - 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.
  - 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 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	

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

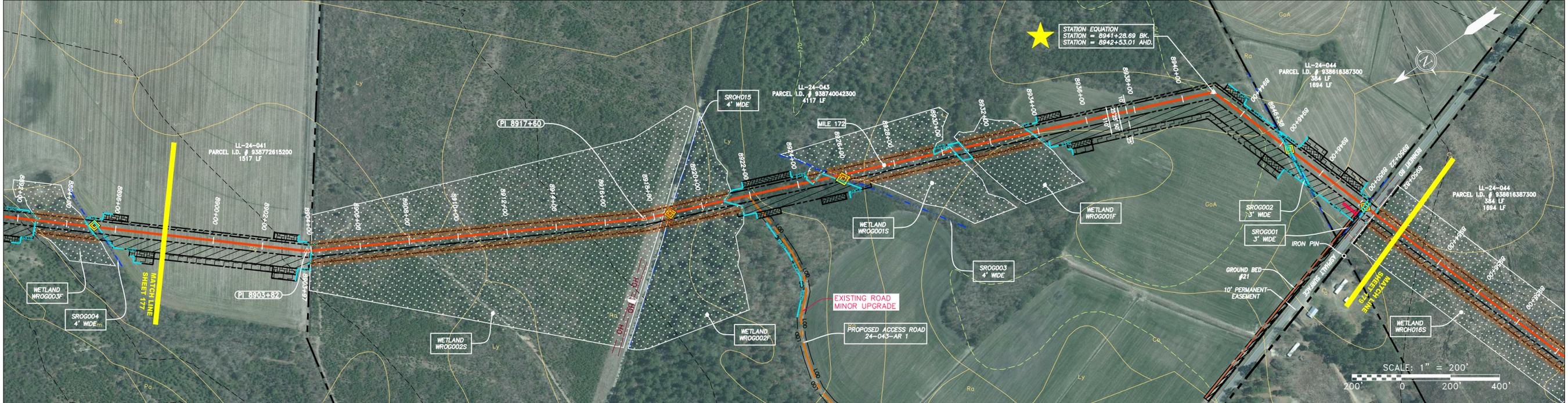
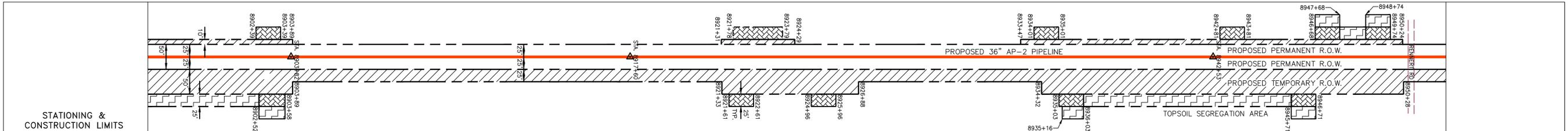
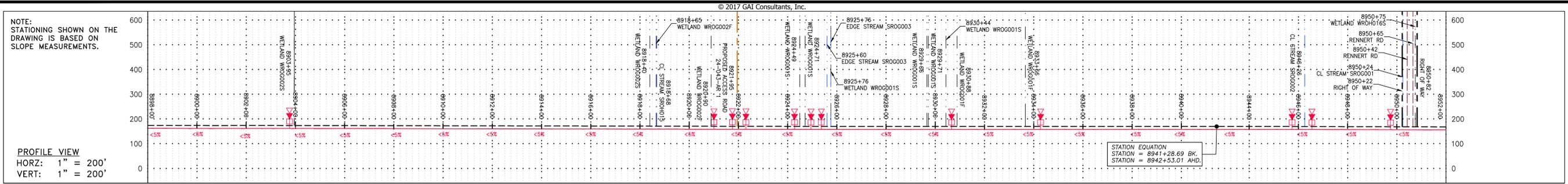
SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.  
 4198 COX ROAD  
 SUITE 114  
 GLEN ALLEN, VA 23060  
 804-270-9357  
 N.C. COL #F-0269

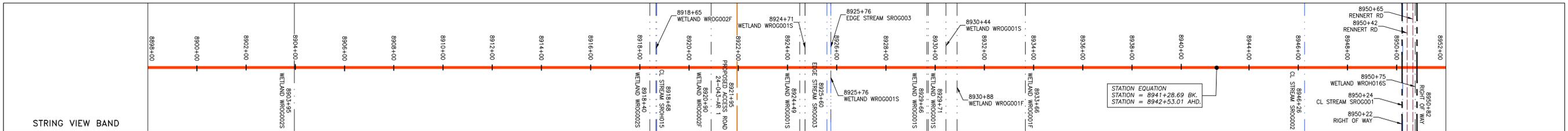
PROJECT NO./DASH NO.	140468	
TASK NO.	005	00
GROUP ID	D	E176
176	OF	189



GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 11\SHEETS - 178-182 (61-65).DWG



PIPE SPECIFICATION table with columns for stationing and pipe details.



LEGEND, NOTES, and REVISIONS section. Includes symbols for property lines, streams, wetlands, and various engineering features. Contains 10 numbered notes and a revision table.

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

Professional Engineer seal for GAI CONSULTANTS, INC. and project information: 36" AP-2 PIPELINE, CONSTRUCTION ALIGNMENT STA 8898+00 TO 8952+00, ATLANTIC COAST PIPELINE, LLC.

Project information including scale (AS SHOWN), date (06/09/17), drawing number (E178), and contact information for GAI CONSULTANTS - NC, INC.