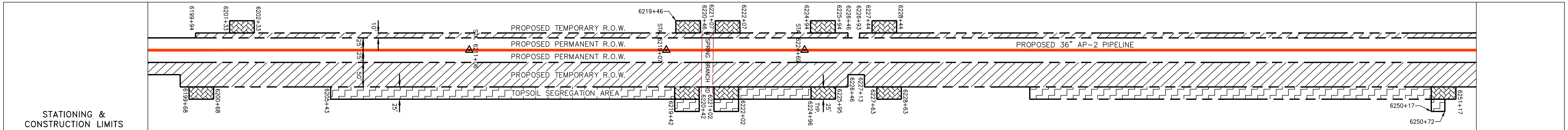
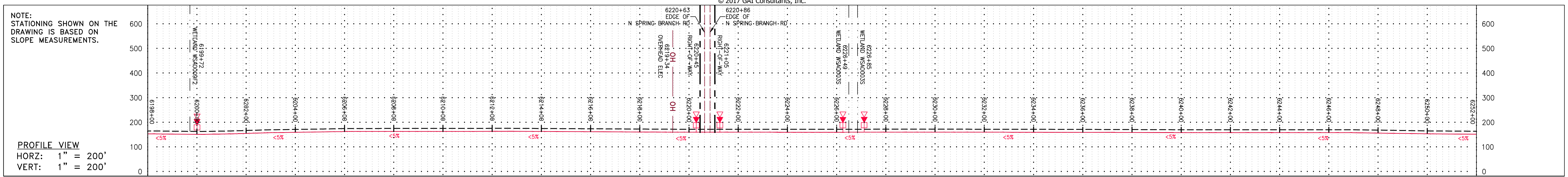
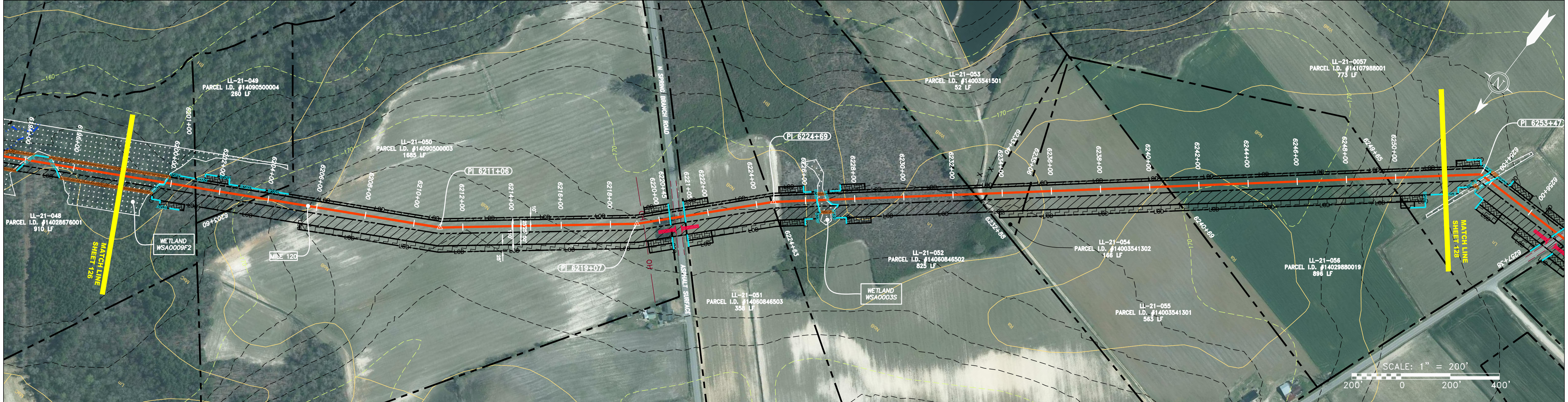


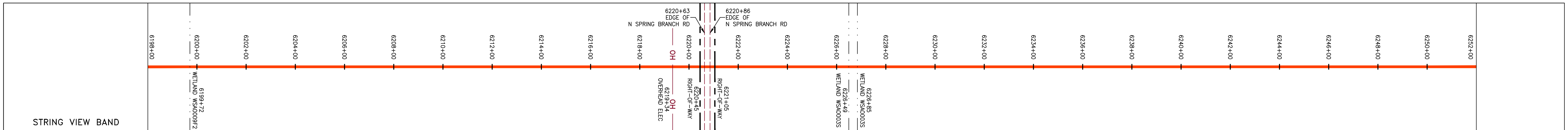
GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 11\SHEETS - 127-131 (11-15).DWG



PROPERTY OWNERSHIP table listing parcel IDs and acreages for various landowners along the pipeline alignment.



PIPE SPECIFICATION table detailing the technical requirements for the proposed gas pipeline.



LEGEND and NOTES section. The legend defines symbols for property lines, fences, streams, gas pipelines, easements, storm sewers, water lines, sanitary sewers, edge of gravel, proposed permanent easements, extra work space, topsoil segregation areas, area of no disturbance, wetland, utility poles, permanent waterbar/slope breaker, temporary waterbar/slope breaker, trench breaker/plug, stream crossing, USFWS stream crossing, construction entrance with ditch, culvert/waterbar, LOD, BSRF, coir log, compost filter sock, orange safety fence, roadside ditch, and soil type. The notes provide detailed instructions for construction and compliance with regulations.

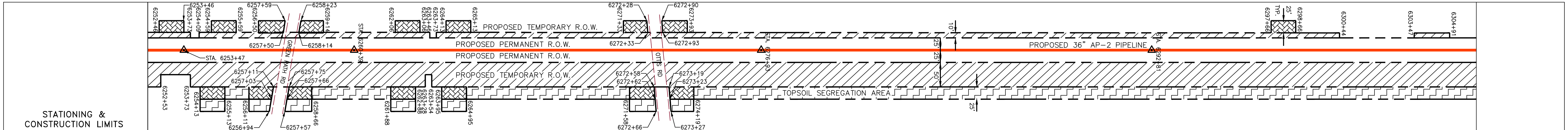
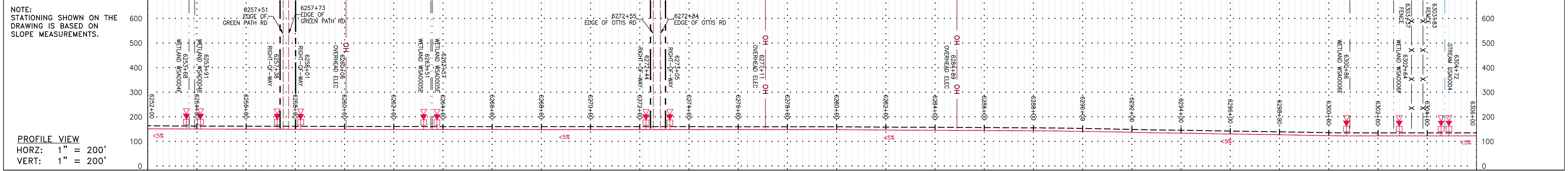
REVISIONS table with columns for NO., DATE, DWN., CHKD., and APPVD., used for tracking design changes.

Professional Engineer seal for GAI CONSULTANTS, INC. and project information: 36" AP-2 PIPELINE, CONSTRUCTION ALIGNMENT STA. 6198+00 TO 6252+00, ATLANTIC COAST PIPELINE, LLC, C/O DOMINION TRANSMISSION, INC., 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330.

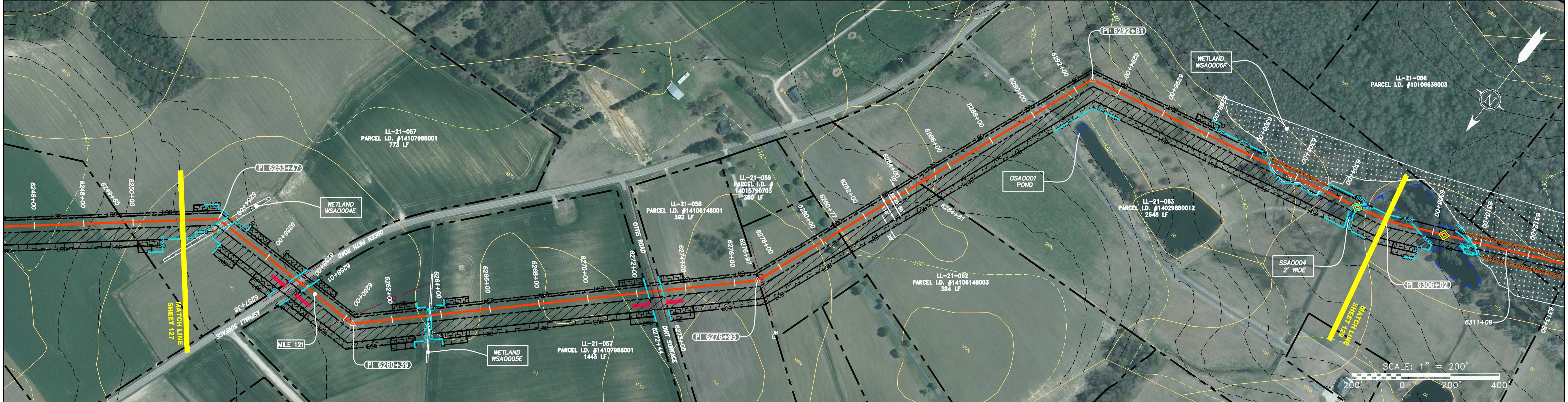
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gai consultants - NC, inc. 4198 COX ROAD, SUITE 114, GLEN ALLEN, VA 23060, 804-270-9357, N.C. COL. #0269

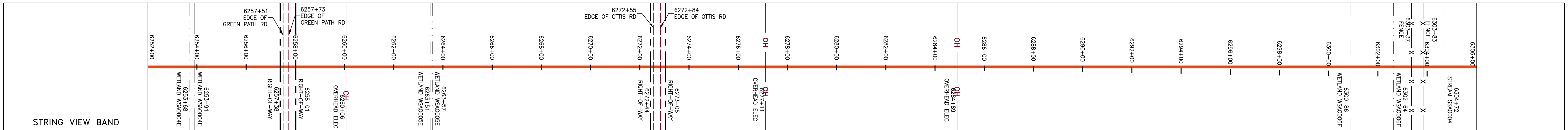
PROJECT NO./DASH NO. 140468, TASK NO. 005, SUB TASK NO. 00, GROUP ID D, DRAWING NO. E127, 127 OF 189.



| PROPERTY OWNERSHIP                               |
|--|
| LL-21-057<br>PARCEL I.D. #14107988001<br>773 LF  |
| LL-21-057<br>PARCEL I.D. #14107988001<br>1443 LF |
| LL-21-058<br>PARCEL I.D. #14106148001<br>392 LF  |
| LL-21-059<br>PARCEL I.D. #14015790703<br>380 LF  |
| LL-21-062<br>PARCEL I.D. #14106148003<br>384 LF  |
| LL-21-063<br>PARCEL I.D. #14029880012<br>2648 LF |
| LL-21-066<br>PARCEL I.D. #10106836003            |



| PIPE SPECIFICATION |
|--------------------|
| 6252+00            |
| 6254+00            |
| 6256+00            |
| 6258+00            |
| 6260+00            |
| 6262+00            |
| 6264+00            |
| 6266+00            |
| 6268+00            |
| 6270+00            |
| 6272+00            |
| 6274+00            |
| 6276+00            |
| 6278+00            |
| 6280+00            |
| 6282+00            |
| 6284+00            |
| 6286+00            |
| 6288+00            |
| 6290+00            |
| 6292+00            |
| 6294+00            |
| 6296+00            |
| 6298+00            |
| 6300+00            |
| 6302+00            |
| 6304+00            |
| 6306+00            |



**LEGEND**

|             |                        |               |  |   |  |   |                           |
|-------------|------------------------|---------------|--|---|--|---|---------------------------|
| — X — X —   | PROPERTY LINE          | — F — F —     | UNDERGROUND ELECTRIC                     | ▨ | EXTRA WORK SPACE   | ▨ | TOPSOIL SEGREGATION AREA  |
| — W — W —   | STREAM                 | — W — W —     | WATER LINE                               | ▨ | AREA OF NO DISTURBANCE   | ▨ | PROPOSED TEMPORARY R.O.W. |
| — G — G —   | EXISTING GAS PIPELINE  | — SAN — SAN — | SANITARY SEWER                           | ▨ | WETLAND (EDGE SHOWN TO PROVIDE CLARITY ONLY)   | ○ | UTILITY POLE              |
| — OH — OH — | OVERHEAD UTILITY LINES | — E — E —     | EDGE OF GRAVEL                           | ▨ | NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10). | ▨ |                           |
| — A — A —   | ACCESS ROAD            | — P — P —     | PROPOSED PERMANENT EASEMENT              | ▨ |  | ▨ |                           |
| — G — G —   | PROPOSED GAS PIPELINE  | — P — P —     | 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.
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- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
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| NO. | DATE | DWN. | CHKD. | APPD. | DESCRIPTION |
|-----|------|------|-------|-------|-------------|
|     |      |      |       |       |             |

**36" AP-2 PIPELINE**  
CONSTRUCTION ALIGNMENT STA. 6252+00 TO 6306+00

SAMPSON COUNTY, NORTH CAROLINA

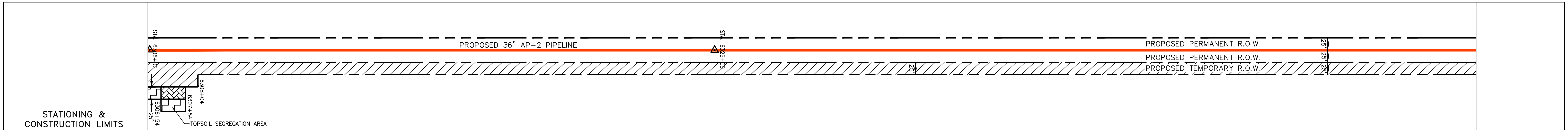
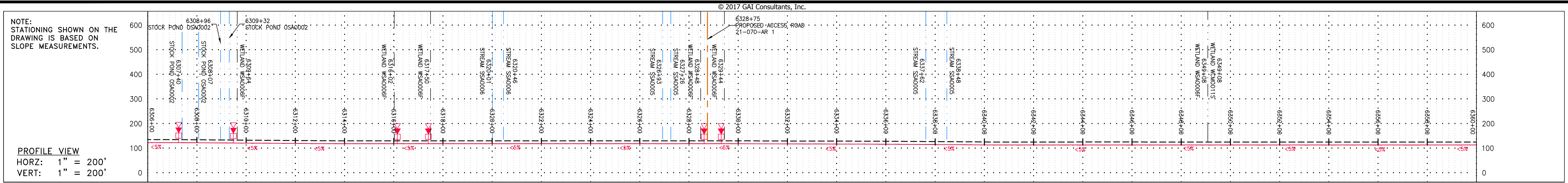
**ATLANTIC COAST PIPELINE, LLC**  
C/O DOMINION TRANSMISSION, INC.  
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

|           |          |
|-----------|----------|
| 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

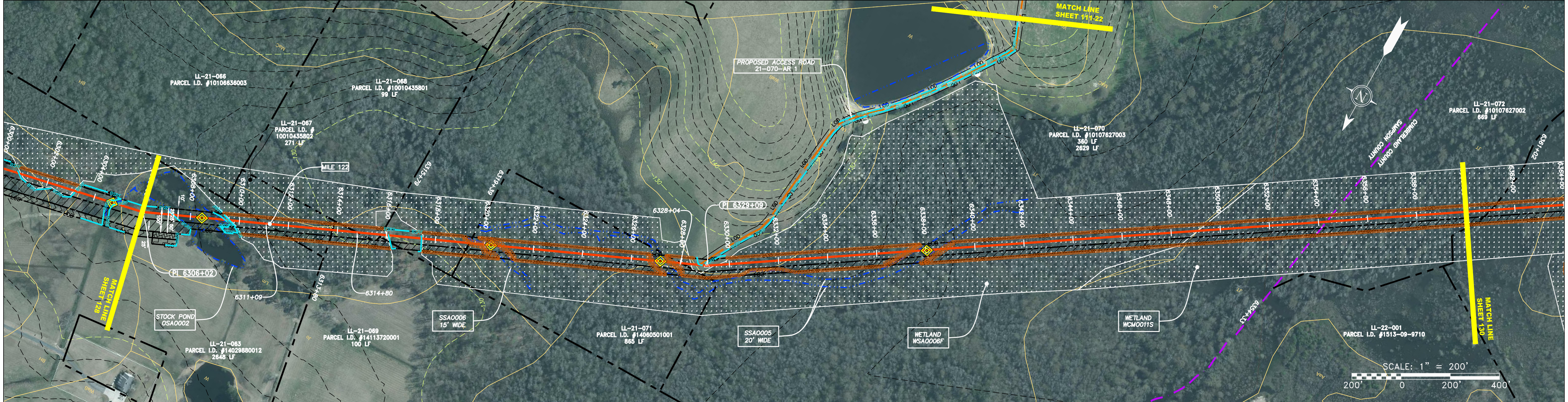
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| TASK NO.             | 005    | 00   |
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| 128                  | OF     | 189  |

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 11\SHEETS - 127-131 (11-15).DWG



PROPERTY OWNERSHIP

|  |   |   |  |   |   |  |   |
|--|---|---|--|---|---|--|---|
| LL-21-063<br>PARCEL I.D. #14029880012<br>2648 LF | LL-21-067<br>PARCEL I.D. #10010435802<br>271 LF | LL-21-070<br>PARCEL I.D. #10107627003<br>360 LF | LL-21-068<br>PARCEL I.D. #10010435801<br>99 LF | LL-21-069<br>PARCEL I.D. #14113720001<br>100 LF | LL-21-071<br>PARCEL I.D. #14060501001<br>865 LF | LL-21-070<br>PARCEL I.D. #10107627003<br>2629 LF | LL-21-072<br>PARCEL I.D. #10107627002<br>669 LF |
|--|---|---|--|---|---|--|---|



PIPE SPECIFICATION

STRING VIEW BAND

|         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 6306+00 | 6307+00 | 6308+00 | 6309+00 | 6310+00 | 6311+00 | 6312+00 | 6313+00 | 6314+00 | 6315+00 | 6316+00 | 6317+00 | 6318+00 | 6319+00 | 6320+00 | 6321+00 | 6322+00 | 6323+00 | 6324+00 | 6325+00 | 6326+00 | 6327+00 | 6328+00 | 6329+00 | 6330+00 | 6331+00 | 6332+00 | 6333+00 | 6334+00 | 6335+00 | 6336+00 | 6337+00 | 6338+00 | 6339+00 | 6340+00 | 6341+00 | 6342+00 | 6343+00 | 6344+00 | 6345+00 | 6346+00 | 6347+00 | 6348+00 | 6349+00 | 6350+00 | 6351+00 | 6352+00 | 6353+00 | 6354+00 | 6355+00 | 6356+00 | 6357+00 | 6358+00 | 6359+00 | 6360+00 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|

**LEGEND**

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

**NOTES:**

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

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| NO.       | DATE        |
| DWN.      | CHKD.       |
| APPD.     | DESCRIPTION |

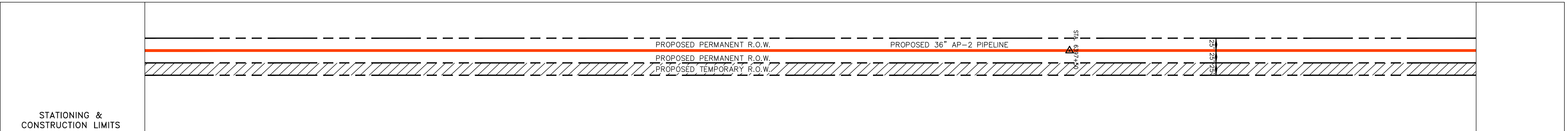
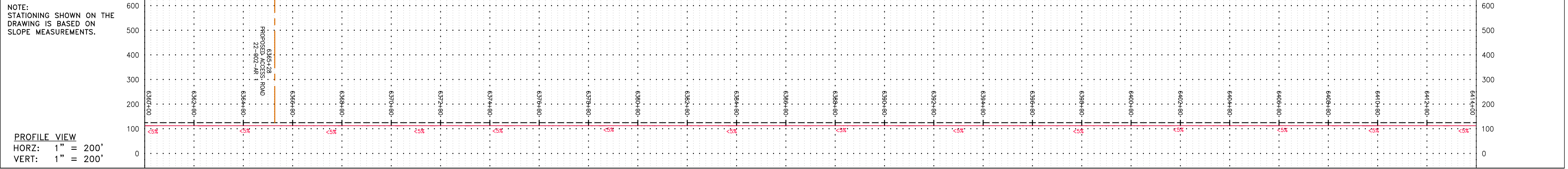
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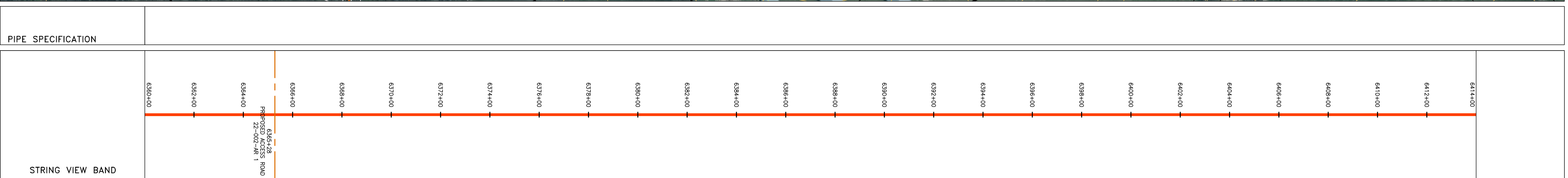
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**005 00**

GROUP ID DRAWING NO.  
**D E129**

129 OF 189



| PROPERTY OWNERSHIP                               | STATIONING & CONSTRUCTION LIMITS                  |
|--|---|
| LL-21-072<br>PARCEL I.D. #110107627002<br>669 LF | LL-22-002<br>PARCEL I.D. #1513-16-5020<br>3103 LF |
| LL-22-003<br>PARCEL I.D. #1503-95-9763<br>893 LF | LL-22-004<br>PARCEL I.D. #1503-83-0971<br>4087 LF |



|  |  |   |   |   |
|--|--|---|---|---|
| <b>LEGEND</b><br>- - - - - PROPERTY LINE<br>X X FENCE<br>--- STREAM<br>G G EXISTING GAS PIPELINE<br>OH OVERHEAD UTILITY LINES<br>--- ACCESS ROAD<br>--- PROPOSED GAS PIPELINE<br>--- UNDERGROUND ELECTRIC<br>W WATER LINE<br>SAN SANITARY SEWER<br>--- EDGE OF GRAVEL<br>--- PROPOSED PERMANENT EASEMENT<br>--- PROPOSED GAS PIPELINE (NO GROUND SURVEY) | [Hatched] EXTRA WORK SPACE<br>[Dotted] AREA OF NO DISTURBANCE<br>[Green] WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) | [Stippled] TOPSOIL SEGREGATION AREA<br>[Hatched] PROPOSED TEMPORARY R.O.W.<br>[Circle with X] UTILITY POLE<br>[Triangle] PERMANENT WATERBAR/SLOPE BREAKER<br>[Square with X] TEMPORARY WATERBAR/SLOPE BREAKER<br>[Square with X] TRENCH BREAKER/PLUG<br>[Diamond] STREAM CROSSING<br>[Diamond with X] USFWS STREAM CROSSING WITH ENHANCED CONTROLS<br>[Triangle] CONSTRUCTION ENTRANCE WITH DITCH<br>[Circle with X] CULVERT/WATERBAR | [Line] LOD LIMIT OF DISTURBANCE<br>[Line] BSRF BELTED SILT RETENTION FENCE (BSRF)<br>[Line] COIR LOG<br>[Line] COMPOST FILTER SOCK<br>[Line] ORANGE SAFETY FENCE<br>[Line] ROADSIDE DITCH<br>[Circle] SOIL TYPE (CuB) | <b>NOTES:</b><br>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.<br>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.<br>3. IMAGERY TAKEN FROM GOOGLE EARTH.<br>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.<br>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.<br>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.<br>7. ALL STATIONING SHOWN IS SLOPE STATIONING.<br>8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.<br>9. 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.<br>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. |
|--|--|---|---|---|

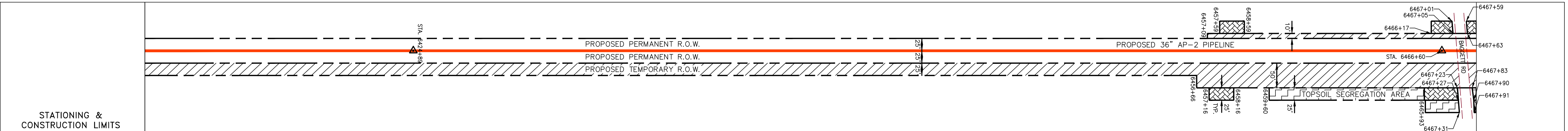
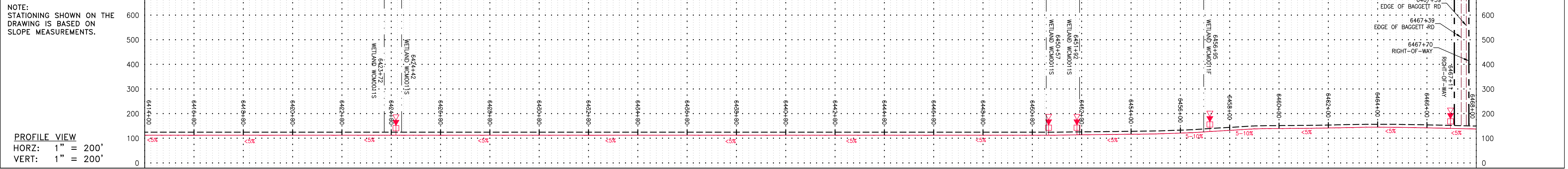
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|-----------|-------|-------------|
| NO.       | DATE  | DWN.        |
| CHKD.     | APPD. |             |

36" AP-2 PIPELINE  
 CONSTRUCTION ALIGNMENT STA 6360+00 TO 6414+00  
 CUMBERLAND 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

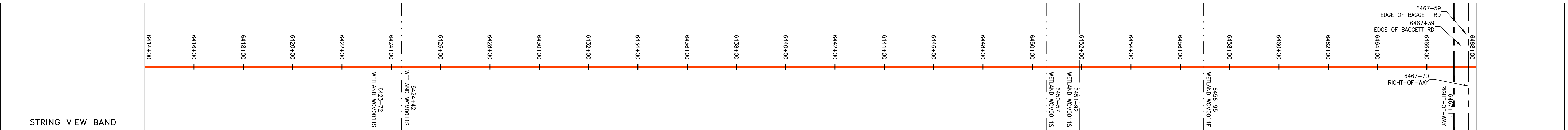
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| TASK NO.             | 005    |
| SUB TASK NO.         | 00     |
| GROUP ID             | D      |
| DRAWING NO.          | E130   |
| 130 OF 189           |        |



| STATIONING & CONSTRUCTION LIMITS | PROPERTY OWNERSHIP                                  |
|----------------------------------|---|
| 6414+00 to 6423+77               | LL-22-004<br>PARCEL I.D. #1503-83-0971<br>4097 LF   |
| 6423+77 to 6442+00               | LL-22-005<br>PARCEL I.D. #1503-71-9954<br>46 LF     |
| 6442+00 to 6459+00               | LL-22-006<br>PARCEL I.D. # CONFLICT_0113<br>1058 LF |
| 6459+00 to 6466+60               | LL-22-007<br>PARCEL I.D. #1503-42-0620<br>1412 LF   |
| 6466+60 to 6467+00               | LL-22-009<br>PARCEL I.D. #1503-22-9554<br>720 LF    |



| PIPE SPECIFICATION |
|--------------------|
| 6414+00 to 6423+77 |
| 6423+77 to 6442+00 |
| 6442+00 to 6459+00 |
| 6459+00 to 6467+00 |



**LEGEND**

|           |                        |         |  |               |   |               |                           |            |  |        |                     |                                    |
|-----------|------------------------|---------|--|---------------|---|---------------|---------------------------|------------|--|--------|---------------------|------------------------------------|
| — X — X — | PROPERTY LINE          | — E —   | UNDERGROUND ELECTRIC                     | [Hatched Box] | EXTRA WORK SPACE                              | [Hatched Box] | TOPSOIL SEGREGATION AREA  | [Triangle] | PERMANENT WATERBAR/SLOPE BREAKER             | [Line] | LOD                 | LIMIT OF DISTURBANCE               |
| — W —     | STREAM                 | — W —   | WATER LINE                               | [Hatched Box] | AREA OF NO DISTURBANCE                        | [Hatched Box] | PROPOSED TEMPORARY R.O.W. | [Triangle] | TEMPORARY WATERBAR/SLOPE BREAKER             | [Line] | BSRF                | BELTED SILT RETENTION FENCE (BSRF) |
| — G —     | EXISTING GAS PIPELINE  | — SAN — | SANITARY SEWER                           | [Hatched Box] | WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) | [Hatched Box] | UTILITY POLE              | [Triangle] | TRENCH BREAKER/PLUG                          | [Line] | COIR LOG            | COIR LOG                           |
| — OH —    | OVERHEAD UTILITY LINES | —       | EDGE OF GRAVEL                           | [Hatched Box] | WETLAND                                       | [Hatched Box] |                           | [Triangle] | STREAM CROSSING                              | [Line] | COMPOST FILTER SOCK | COMPOST FILTER SOCK                |
| —         | ACCESS ROAD            | —       | PROPOSED PERMANENT EASEMENT              | [Hatched Box] |   | [Hatched Box] |                           | [Triangle] | USFWS STREAM CROSSING WITH ENHANCED CONTROLS | [Line] | ORANGE SAFETY FENCE | ORANGE SAFETY FENCE                |
| —         | PROPOSED GAS PIPELINE  | —       | PROPOSED GAS PIPELINE (NO GROUND SURVEY) | [Hatched Box] |   | [Hatched Box] |                           | [Triangle] | CONSTRUCTION ENTRANCE WITH DITCH             | [Line] | ROADSIDE DITCH      | ROADSIDE DITCH                     |
|           |                        |         |  | [Hatched Box] |   | [Hatched Box] |                           | [Triangle] | CULVERT/WATERBAR                             | [Line] | SOIL TYPE           | 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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- IMAGERY TAKEN FROM GOOGLE EARTH.
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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 FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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**NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).**

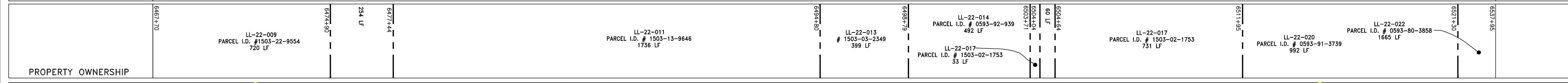
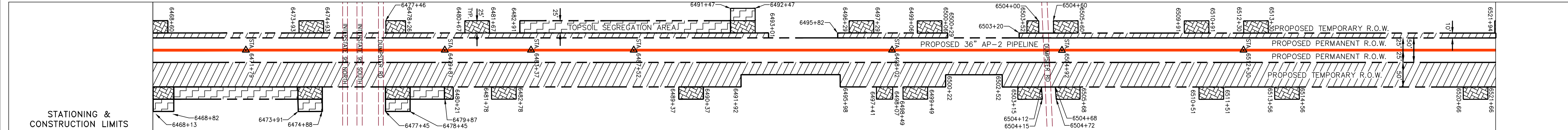
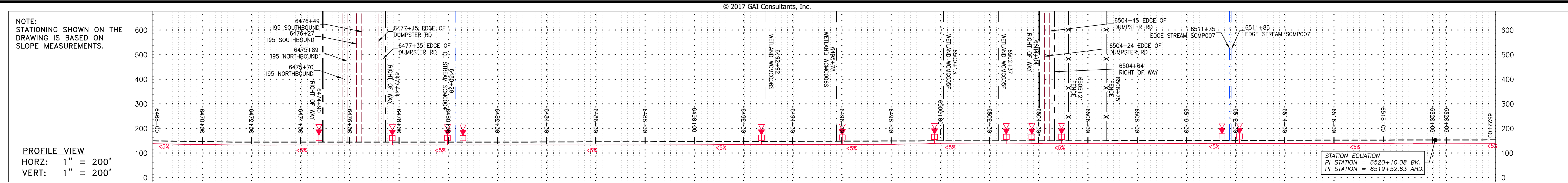
| NO. | DATE | BY | CHKD. | APPD. | DESCRIPTION |
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**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 6414+00 TO 6468+00**  
 CUMBERLAND COUNTY, NORTH CAROLINA  
**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

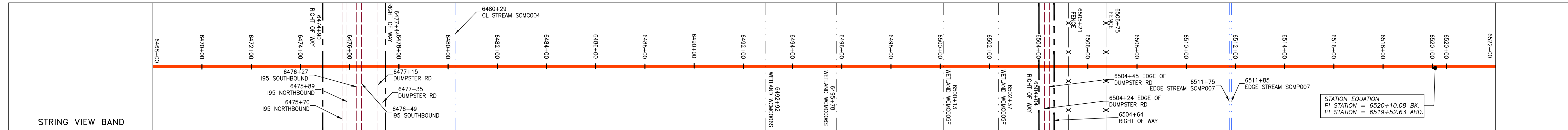
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| SCALE:    | AS SHOWN |
| DATE:     | 06/09/17 |
| DRAWN:    | GPT      |
| CHECKED:  | DLH      |
| APPROVED: | NET      |

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.             | 005    | SUB TASK NO. 00  |
| GROUP ID             | D      | DRAWING NO. E131 |
|                      |        | 131 OF 189       |



| PIPE SPECIFICATION |  |
|--------------------|--|
| 6\"/>              |  |



**LEGEND**

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

|  |   |  |                                    |
|--|---|--|------------------------------------|
|  | PERMANENT WATERBAR/SLOPE BREAKER            |  | LIMIT OF DISTURBANCE               |
|  | TEMPORARY WATERBAR/SLOPE BREAKER            |  | BELTED SILT RETENTION FENCE (BSRF) |
|  | TRENCH BREAKER/PLUG                         |  | COIR LOG                           |
|  | STREAM CROSSING                             |  | COMPOST FILTER SOCK                |
|  | USFS STREAM CROSSING WITH ENHANCED CONTROLS |  | ORANGE SAFETY FENCE                |
|  | CONSTRUCTION ENTRANCE WITH DITCH            |  | ROADSIDE DITCH                     |
|  | CULVERT/WATERBAR                            |  | SOIL TYPE                          |

**NOTES:**

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| NO. | DATE | DWN. | CHKD. | APPD. | DESCRIPTION |
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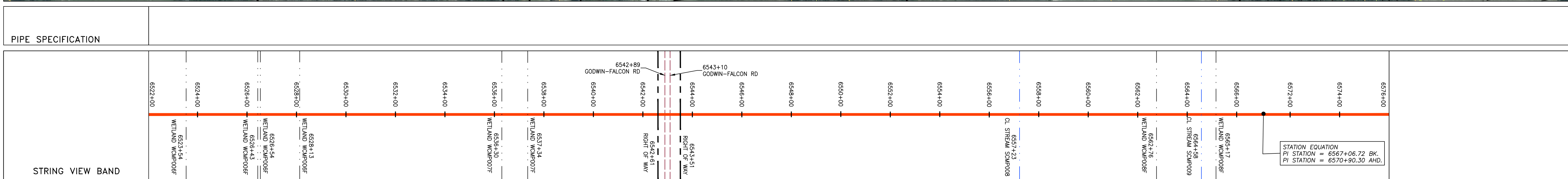
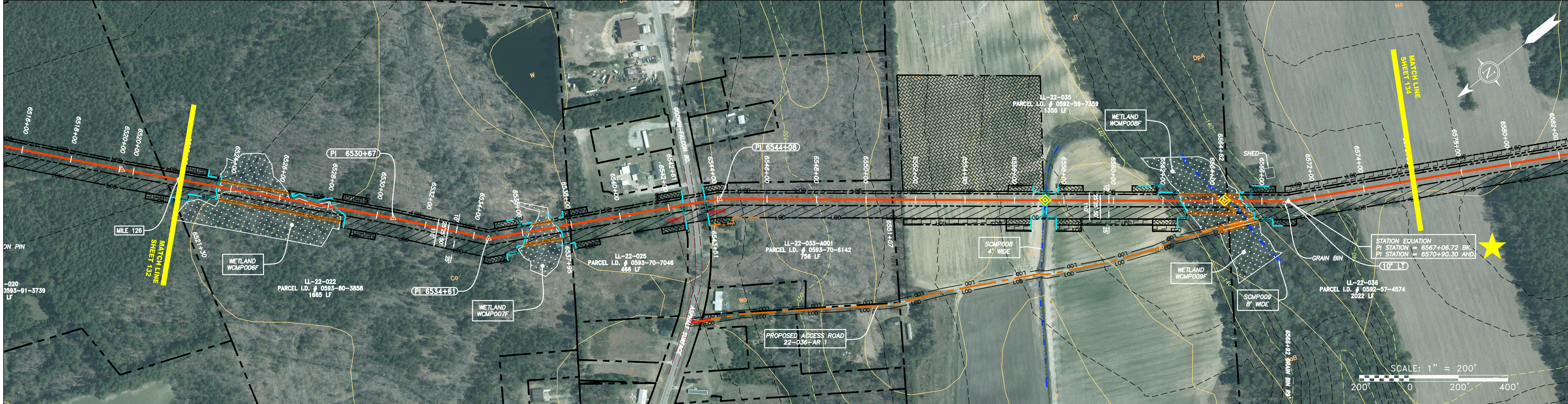
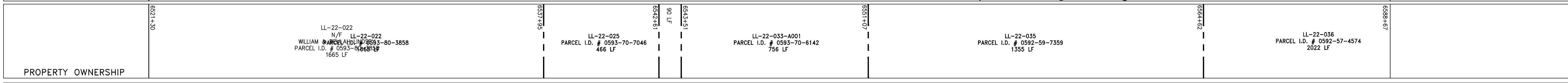
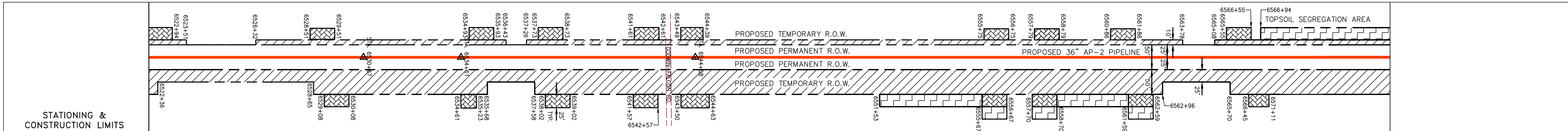
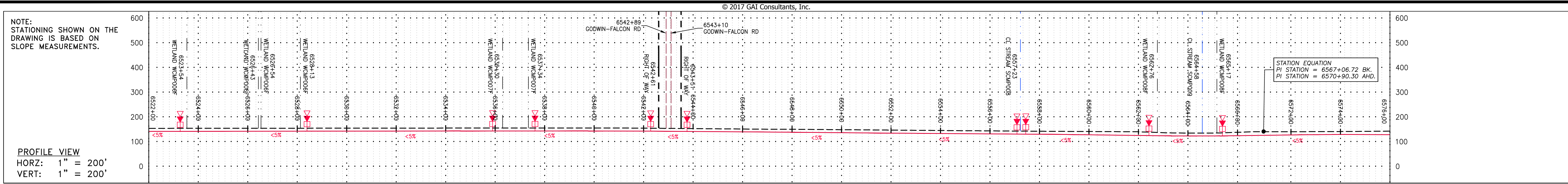
**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 6468+00 TO 6522+00**  
 CUMBERLAND COUNTY, NORTH CAROLINA  
**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

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

gai consultants - NC, inc.  
 4188 COX ROAD  
 SUITE 114  
 GLEN ALLEN, VA 23060  
 804-270-8357  
 N.C. COL # 0269

|                      |        |      |
|----------------------|--------|------|
| PROJECT NO./DASH NO. | 140468 |      |
| TASK NO.             | 005    | 00   |
| GROUP ID             | D      | E132 |
| 132 OF 189           |        |      |

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 11\SHEETS - 132-136 (16-20) - REROUTE 6-23-15.DWG



**LEGEND**

- PROPERTY LINE
- FENCE
- STREAM
- EXISTING GAS PIPELINE
- 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 (COLOR SHOWN TO PROVIDE CLARITY ONLY)
- UTILITY POLE
- 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
- BSRF
- COIR LOG
- COMPOST FILTER SOCK
- ORANGE SAFETY FENCE
- ROADSIDE DITCH
- SOIL TYPE
- LIMIT OF DISTURBANCE
- BELTED SILT RETENTION FENCE (BSRF)
- TOPSOIL SEGREGATION AREA
- PROPOSED TEMPORARY R.O.W.

**NOTES:**

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REVISIONS

| NO. | DATE | DWN. | CHKD. | APPRD. | DESCRIPTION |
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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**

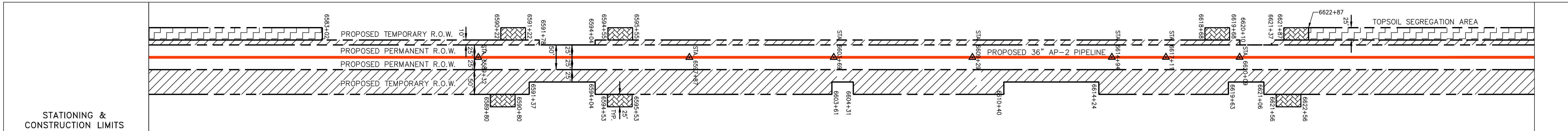
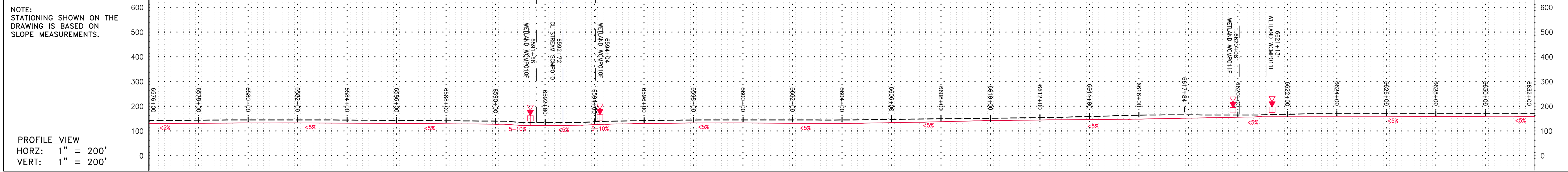
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GROUP ID DRAWING NO.  
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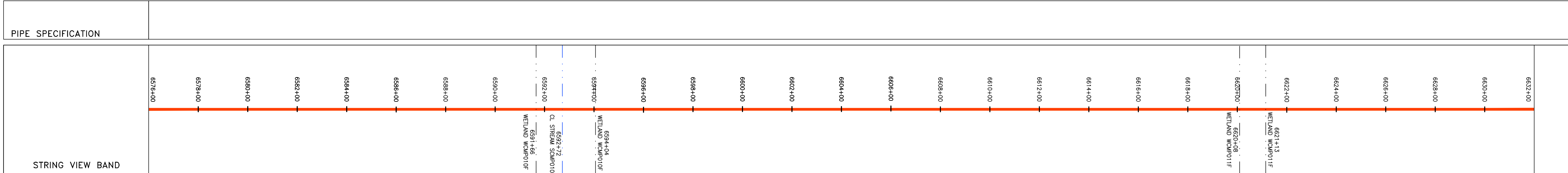
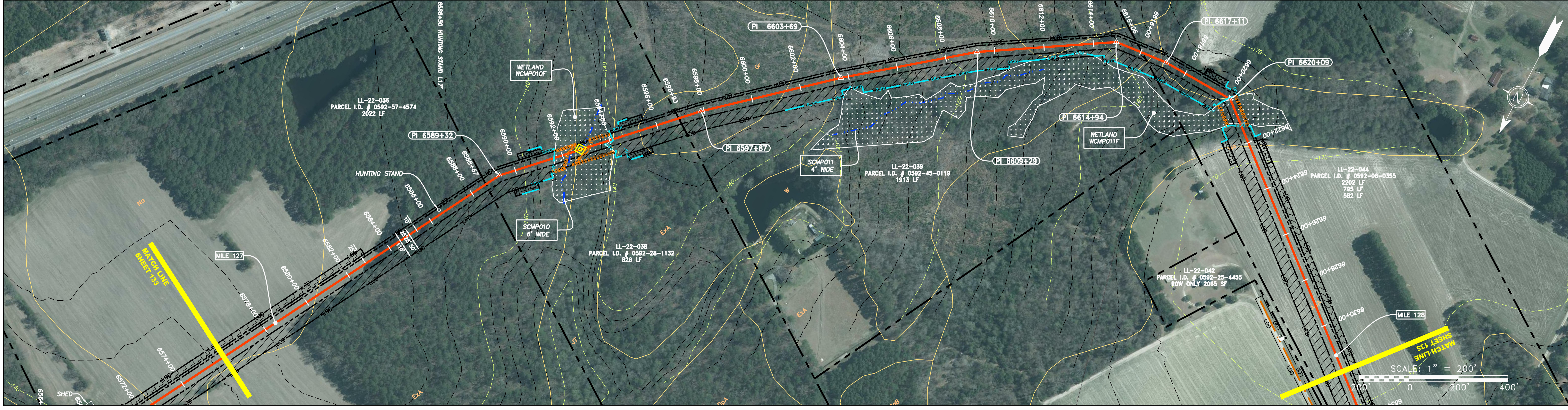
**133 OF 189**

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 11\SHEETS - 132-136 (16-20) - REROUTE 6-23-15.DWG

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| PROPERTY OWNERSHIP                                 |
|--|
| LL-22-036<br>PARCEL I.D. # 0592-57-4574<br>2022 LF |
| LL-22-038<br>PARCEL I.D. # 0592-28-1132<br>826 LF  |
| LL-22-039<br>PARCEL I.D. # 0592-45-0119<br>1913 LF |
| LL-22-044<br>PARCEL I.D. # 0592-06-0355<br>2202 LF |



**LEGEND**

|           |                        |         |  |   |   |   |                           |
|-----------|------------------------|---------|--|---|---|---|---------------------------|
| — X — X — | PROPERTY LINE          | — E —   | UNDERGROUND ELECTRIC                     | ▨ | EXTRA WORK SPACE                              | ▨ | TOPSOIL SEGREGATION AREA  |
| — W —     | STREAM                 | — W —   | WATER LINE                               | ▨ | AREA OF NO DISTURBANCE                        | ▨ | PROPOSED TEMPORARY R.O.W. |
| — G —     | EXISTING GAS PIPELINE  | — SAN — | SANITARY SEWER                           | ▨ | WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) | ○ | UTILITY POLE              |
| — 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 |      | DESCRIPTION |
|-----------|------|-------------|
| NO.       | DATE |             |
|           |      |             |
|           |      |             |
|           |      |             |

**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 6570+00 TO 6632+00**  
 CUMBERLAND COUNTY, NORTH CAROLINA

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

|           |          |
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| SCALE:    | AS SHOWN |
| DATE:     | 06/09/17 |
| DRAWN:    | GPT      |
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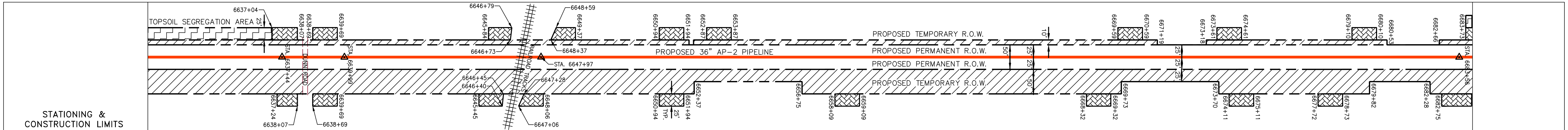
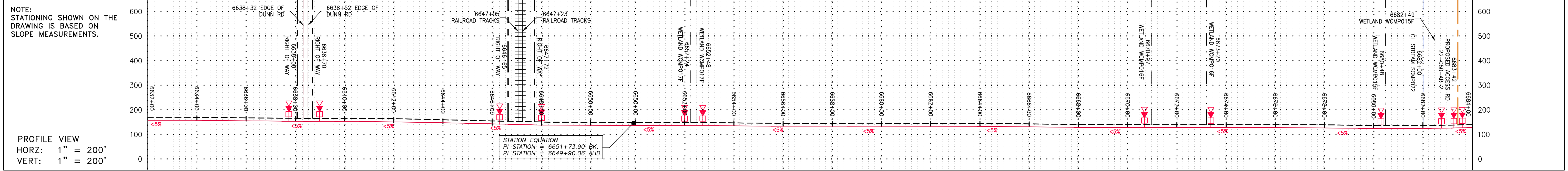
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| PROJECT NO./DASH NO.  | 140468 |
| TASK NO. SUB TASK NO. | 005 00 |
| GROUP ID DRAWING NO.  | D E134 |
| 134 OF 189            |        |

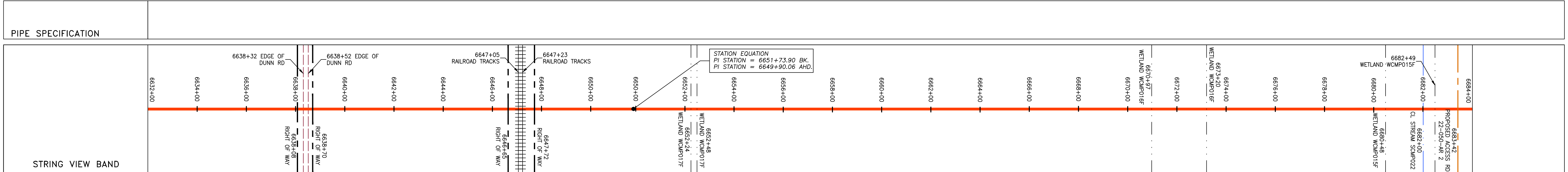
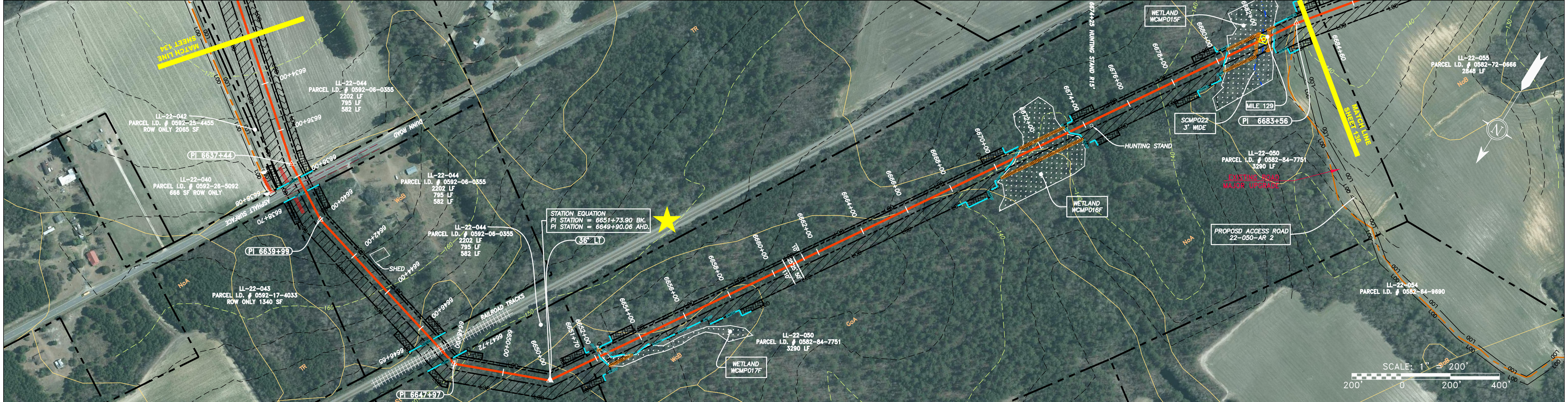


GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 11\SHEETS - 132-136 (16-20) - REROUTE 6-23-15.DWG

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| Parcel I.D.   | Area   | Area  | Area  | Area   | Area   |
|---|--|---|---|--|--|
| LL-22-042<br>PARCEL I.D. # 0592-25-4455<br>2065 SF ROW ONLY | LL-22-040<br>PARCEL I.D. # 0592-26-5092<br>ROW ONLY 666 SF | LL-22-044<br>PARCEL I.D. # 0592-06-0355<br>795 LF | LL-22-044<br>PARCEL I.D. # 0592-06-0355<br>582 LF | LL-22-050<br>PARCEL I.D. # 0582-84-7751<br>3290 LF | LL-22-050<br>PARCEL I.D. # 0582-84-7751<br>3290 LF |



|   |  |  |
|---|--|--|
| <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 — LOD — LIMIT OF DISTURBANCE</li> <li>— BSRF — BSRF — BELTED SILT RETENTION FENCE (BSRF)</li> <li>— COIR LOG — COIR LOG — COIR LOG</li> <li>— COMPOST FILTER SOCK — COMPOST FILTER SOCK — COMPOST FILTER SOCK</li> <li>— ORANGE SAFETY FENCE — ORANGE SAFETY FENCE — ORANGE SAFETY FENCE</li> <li>— ROADSIDE DITCH — ROADSIDE DITCH — ROADSIDE DITCH</li> <li>— SOIL TYPE — SOIL TYPE — SOIL TYPE</li> </ul> |
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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 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.

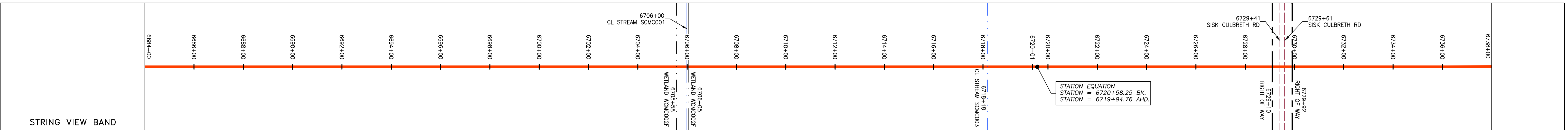
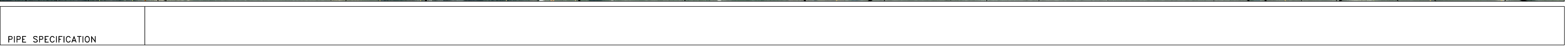
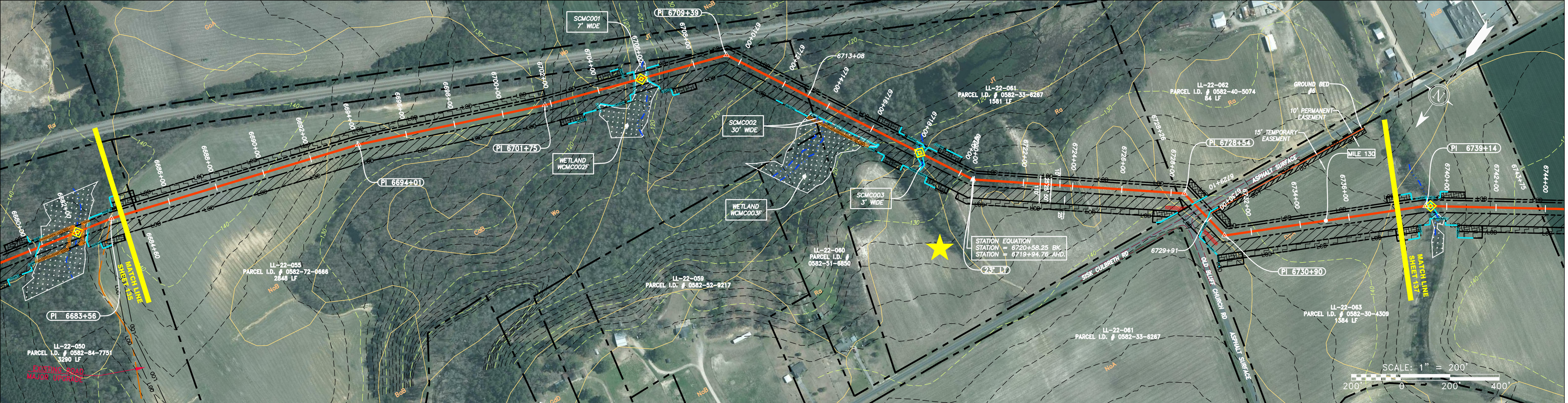
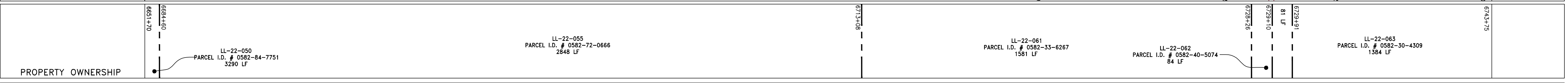
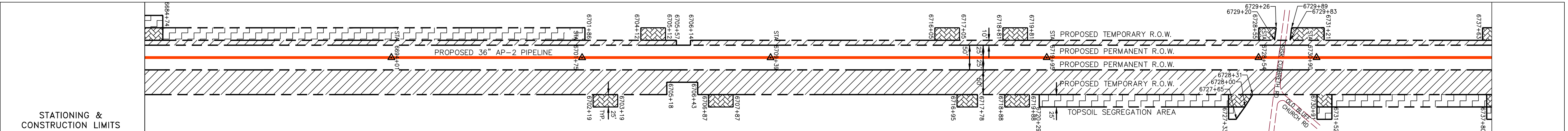
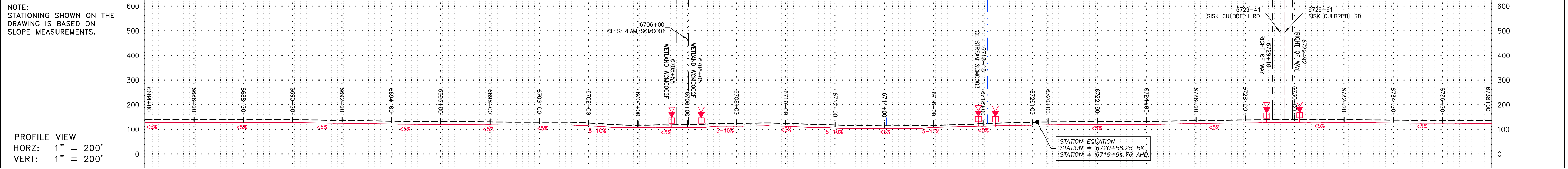
| NO. | DATE | BY | CHKD. | APPD. | DESCRIPTION |
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**36" AP-2 PIPELINE**  
CONSTRUCTION ALIGNMENT STA 6632+00 TO 6684+00  
CUMBERLAND COUNTY, NORTH CAROLINA

**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      |

|                      |              |        |
|----------------------|--------------|--------|
| PROJECT NO./DASH NO. |              | 140468 |
| TASK NO.             | SUB TASK NO. | 005 00 |
| GROUP ID             | DRAWING NO.  | D E135 |
| 135                  | OF           | 189    |



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| <b>LEGEND</b><br>- - - - - PROPERTY LINE<br>X X FENCE<br>--- STREAM<br>G G EXISTING GAS PIPELINE<br>OH OVERHEAD UTILITY LINES<br>--- ACCESS ROAD<br>--- PROPOSED GAS PIPELINE<br>- - - - - UNDERGROUND ELECTRIC<br>W WATER LINE<br>SAN SANITARY SEWER<br>--- EDGE OF GRAVEL<br>--- PROPOSED PERMANENT EASEMENT<br>--- PROPOSED GAS PIPELINE (NO GROUND SURVEY) |  | [Hatched Box] EXTRA WORK SPACE<br>[Dotted Box] AREA OF NO DISTURBANCE<br>[Green Box] WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)<br>[Hatched Box] TOPSOIL SEGREGATION AREA<br>[Hatched Box] PROPOSED TEMPORARY R.O.W.<br>[Circle with X] UTILITY POLE<br>[Triangle with X] PERMANENT WATERBAR/SLOPE BREAKER<br>[Triangle with X] TEMPORARY WATERBAR/SLOPE BREAKER<br>[Triangle with X] TRENCH BREAKER/PLUG<br>[Diamond] STREAM CROSSING<br>[Diamond] USFWS STREAM CROSSING WITH ENHANCED CONTROLS<br>[Triangle with X] CONSTRUCTION ENTRANCE WITH DITCH<br>[Triangle with X] CULVERT/WATERBAR<br>[Line] LOD LIMIT OF DISTURBANCE<br>[Line] BSRF BELTED SILT RETENTION FENCE (BSRF)<br>[Line] COIR LOG<br>[Line] COMPOST FILTER SOCK<br>[Line] ORANGE SAFETY FENCE<br>[Line] ROADSIDE DITCH<br>[Circle] CuB SOIL TYPE |  | <b>NOTES:</b><br>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.<br>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.<br>3. IMAGERY TAKEN FROM GOOGLE EARTH.<br>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.<br>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.<br>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.<br>7. ALL STATIONING SHOWN IS SLOPE STATIONING.<br>8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.<br>9. 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.<br>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 |      | DESCRIPTION |
|-----------|------|-------------|
| NO.       | DATE |             |
|           |      |             |
|           |      |             |
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PROFESSIONAL ENGINEER  
 STATE OF NORTH CAROLINA  
 No. 10000  
 T. A. ROBERTSON  
 T. A. ROBERTSON ENGINEERING, INC.

PROJECT NO./DASH NO.  
**140468**

TASK NO. SUB TASK NO.  
**005 00**

GROUP ID DRAWING NO.  
**D E136**

136 OF 189

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

**36" AP-2 PIPELINE**  
**CONSTRUCTION ALIGNMENT STA 6684+00 TO 6738+00**  
 CUMBERLAND COUNTY, NORTH CAROLINA  
**ATLANTIC COAST PIPELINE, LLC**  
 C/O DOMINION TRANSMISSION, INC.  
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330