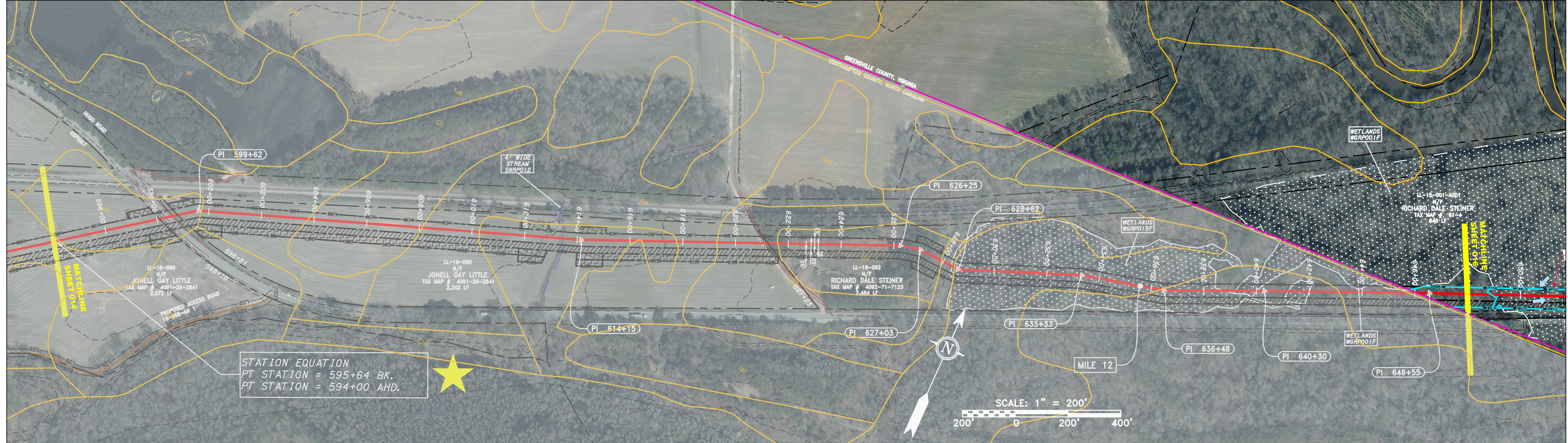
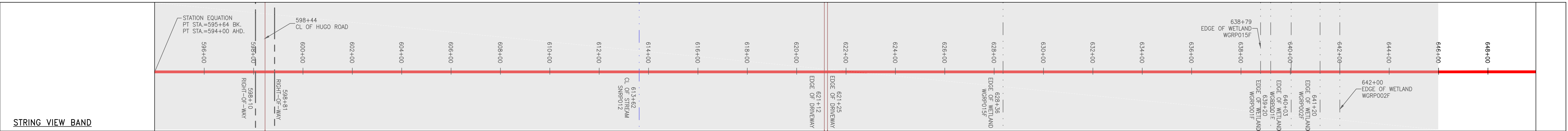


| PROPERTY OWNERSHIP   | STATIONING & CONSTRUCTION LIMITS |
|--|----------------------------------|
| LL-16-090<br>N/F<br>JONELL GAY LITTLE<br>TAX MAP # 4091-28-2841<br>2,072 LF    | 596+00 to 600+00                 |
| LL-16-090<br>N/F<br>JONELL GAY LITTLE<br>TAX MAP # 4091-28-2841<br>2,242 LF    | 600+00 to 627+00                 |
| LL-16-092<br>N/F<br>RICHARD DALE STEINER<br>TAX MAP # 4092-71-7123<br>2,484 LF | 627+00 to 642+00                 |
| LL-15-001-A001<br>N/F<br>RICHARD DALE STEINER<br>TAX MAP # 61-4<br>840 LF      | 642+00 to 648+00                 |



**PIPE SPECIFICATION**



**LEGEND**

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

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, U.S. SURVEY FOOT, CENTRAL MERIDIAN 81° W, 11072014.
- 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.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- 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 MATINGS 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.
- 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.
- 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.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. CORP. OF ENGINEERS.

| 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 594+00 TO 648+00**  
 NORTHAMPTON COUNTY, NORTH CAROLINA  
 & GREENSVILLE COUNTY, VIRGINIA

SCALE: AS SHOWN  
 DATE: 3/31/17  
 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

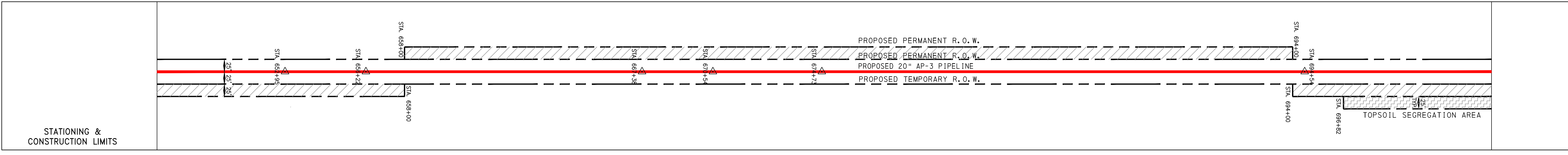
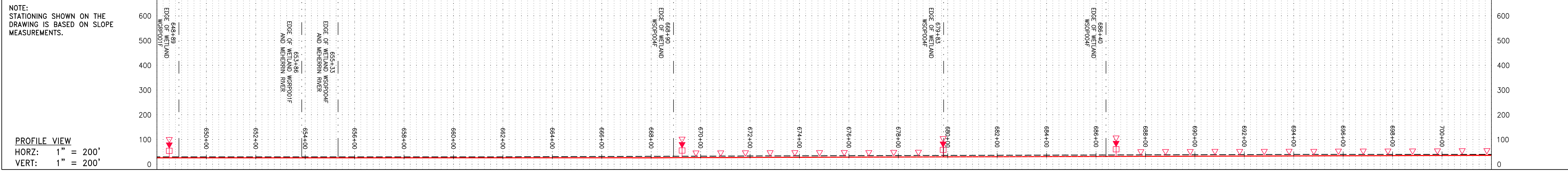
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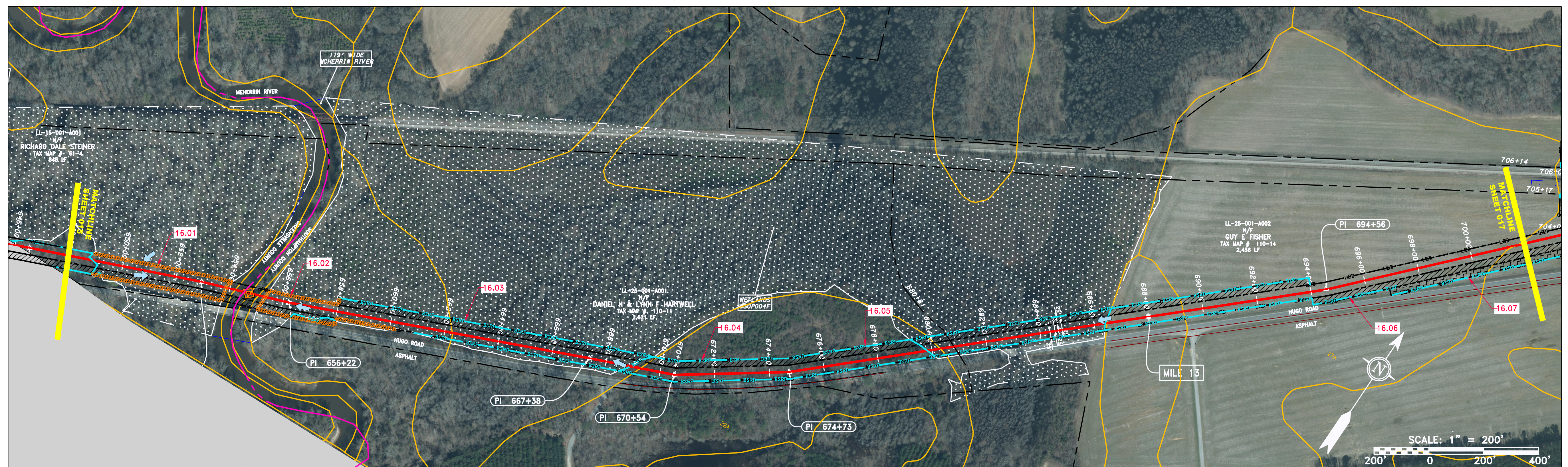
015 OF 84

3/31/2017 1:09 PM





| Stationing | Property Ownership  |
|------------|---|
| 644+07     | LL-15-001-A001<br>RICHARD DALE STEINER<br>N/7<br>TAX MAP # 61-4<br>848 LF           |
| 654+55     |   |
| 664+00     | LL-25-001-A001<br>DANIEL N & LYNN F HARTWELL<br>N/7<br>TAX MAP # 110-11<br>2,621 LF |
| 680+81     |   |
| 705+17     | LL-25-001-A002<br>GUY E FISHER<br>N/7<br>TAX MAP # 110-14<br>2,436 LF               |



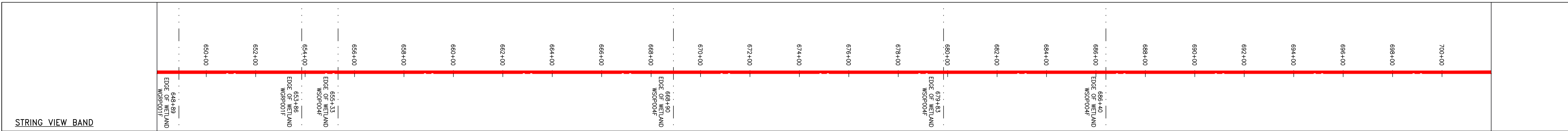
| REVISIONS |             |
|-----------|-------------|
| NO.       | DESCRIPTION |
|           |             |
|           |             |

20" AP-3 PIPELINE  
CONSTRUCTION ALIGNMENT STA 648+00 TO 702+00  
GREENSVILLE COUNTY, VIRGINIA  
& SOUTHAMPTON COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 4/24/17  
DRAWN: GOS  
CHECKED: DLH  
APPROVED: NET

PIPE SPECIFICATION



**LEGEND**

|                   |                 |           |                          |            |                |                           |                    |        |                            |                 |  |                      |                              |  |                     |                                      |                       |   |   |                            |                         |                    |               |  |
|-------------------|-----------------|-----------|--------------------------|------------|----------------|---------------------------|--------------------|--------|----------------------------|-----------------|--|----------------------|------------------------------|--|---------------------|--------------------------------------|-----------------------|---|---|----------------------------|-------------------------|--------------------|---------------|--|
| --- PROPERTY LINE | --- STORM SEWER | --- FENCE | --- UNDERGROUND ELECTRIC | --- STREAM | --- WATER LINE | --- EXISTING GAS PIPELINE | --- SANITARY SEWER | --- OH | --- OVERHEAD UTILITY LINES | --- ACCESS ROAD | --- PROPOSED GAS PIPELINE (NO GROUND SURVEY) | --- EXTRA WORK SPACE | --- TOPSOIL SEGREGATION AREA | --- STREAM CROSSING WITH ENHANCED CONTROLS | --- SLOPE DIRECTION | --- CONSTRUCTION ENTRANCE WITH DITCH | --- CULVERT/ WATERBAR | --- LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF) | --- COMPOST FILTER SOCK SEDIMENT BARRIER IDENTIFICATION | --- CULVERT IDENTIFICATION | --- ORANGE SAFETY FENCE | --- ROADSIDE DITCH | --- SOIL TYPE | --- TYPICAL BIC SLOPE CATEGORY SLOPE INCLINATION |
|-------------------|-----------------|-----------|--------------------------|------------|----------------|---------------------------|--------------------|--------|----------------------------|-----------------|--|----------------------|------------------------------|--|---------------------|--------------------------------------|-----------------------|---|---|----------------------------|-------------------------|--------------------|---------------|--|

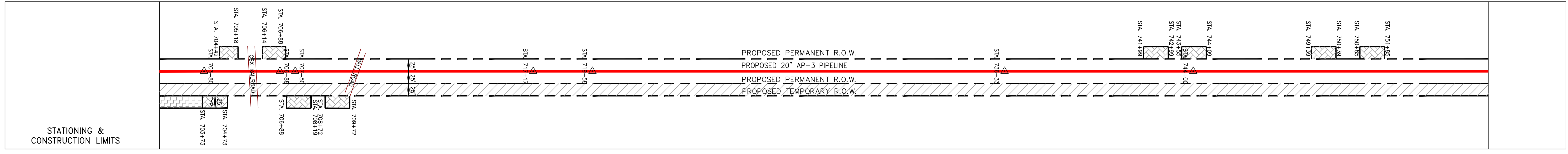
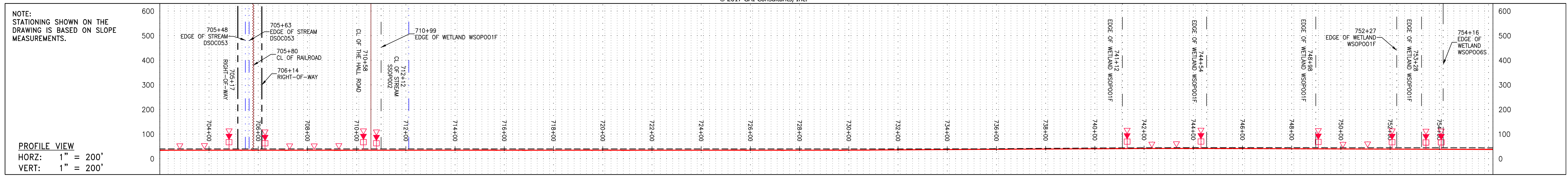
**NOTES:**

- 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.
- 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.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- 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 MATINGS SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.
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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.5.5. 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.

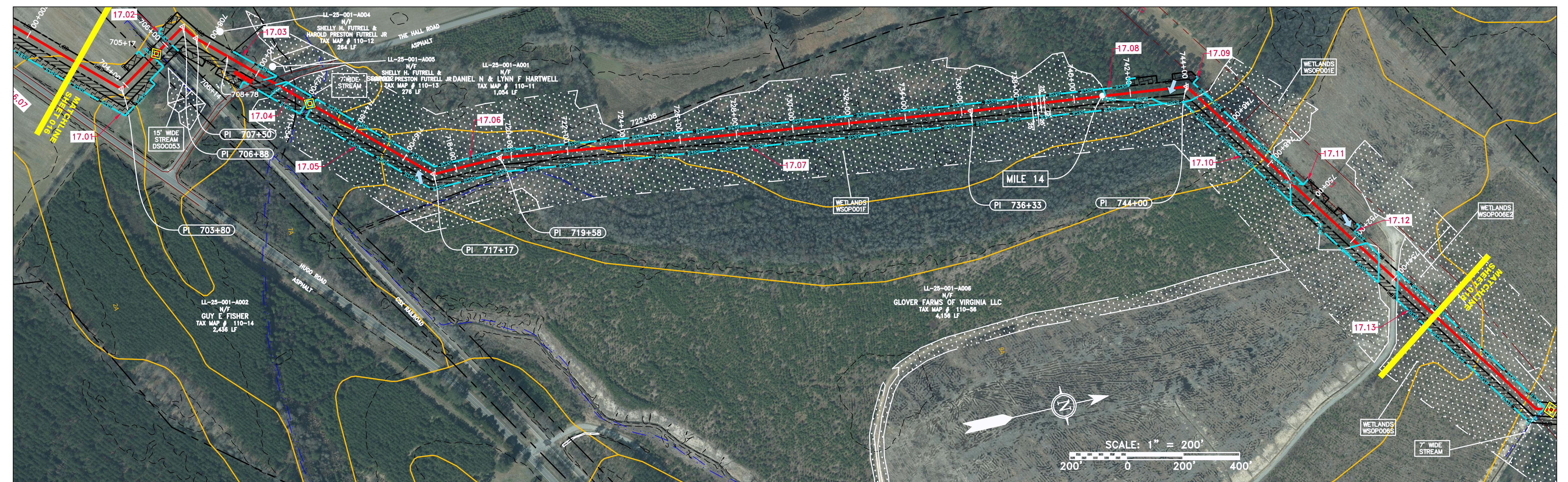
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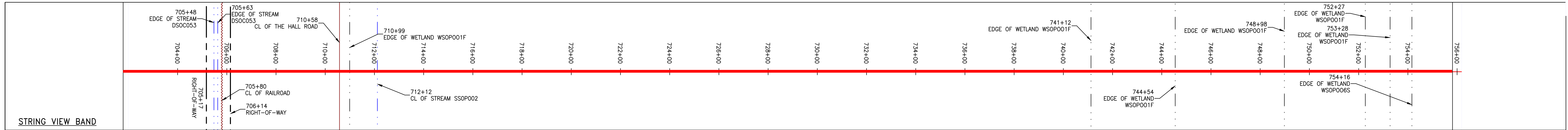




| PROPERTY OWNERSHIP   | STATIONING & CONSTRUCTION LIMITS   |
|--|--|
| LL-25-001-A002<br>N/F<br>GUY E. FISHER<br>TAX MAP # 110-14<br>2,456 LF<br>650+81                           | STA 705+18<br>STA 706+14<br>STA 706+88<br>STA 707+50<br>STA 708+88<br>STA 709+72<br>STA 711+54<br>STA 719+58<br>STA 722+08<br>STA 736+33<br>STA 744+00<br>STA 748+00<br>STA 752+27<br>STA 753+28<br>STA 754+16 |
| LL-25-001-A004<br>N/F<br>SHELLY H. FUTRELL &<br>HAROLD PRESTON<br>FUTRELL JR<br>TAX MAP # 110-12<br>264 LF | STA 706+14<br>STA 706+88<br>STA 707+50<br>STA 708+88<br>STA 709+72<br>STA 711+54<br>STA 719+58<br>STA 722+08<br>STA 736+33<br>STA 744+00<br>STA 748+00<br>STA 752+27<br>STA 753+28<br>STA 754+16               |
| LL-25-001-A005<br>N/F<br>SHELLY H. FUTRELL &<br>HAROLD PRESTON<br>FUTRELL JR<br>TAX MAP # 110-13<br>276 LF | STA 706+14<br>STA 706+88<br>STA 707+50<br>STA 708+88<br>STA 709+72<br>STA 711+54<br>STA 719+58<br>STA 722+08<br>STA 736+33<br>STA 744+00<br>STA 748+00<br>STA 752+27<br>STA 753+28<br>STA 754+16               |
| LL-25-001-A001<br>N/F<br>DANIEL N & LYNN F HARTWELL<br>TAX MAP # 110-11<br>1,054 LF                        | STA 706+14<br>STA 706+88<br>STA 707+50<br>STA 708+88<br>STA 709+72<br>STA 711+54<br>STA 719+58<br>STA 722+08<br>STA 736+33<br>STA 744+00<br>STA 748+00<br>STA 752+27<br>STA 753+28<br>STA 754+16               |
| LL-25-001-A006<br>N/F<br>GLOVER FARMS OF VIRGINIA LLC<br>TAX MAP # 110-56<br>4,156 LF                      | STA 706+14<br>STA 706+88<br>STA 707+50<br>STA 708+88<br>STA 709+72<br>STA 711+54<br>STA 719+58<br>STA 722+08<br>STA 736+33<br>STA 744+00<br>STA 748+00<br>STA 752+27<br>STA 753+28<br>STA 754+16               |



**PIPE SPECIFICATION**



|  |   |
|--|---|
| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>--- PROPERTY LINE</li> <li>-X-X- FENCE</li> <li>--- STREAM</li> <li>-G-G- EXISTING GAS PIPELINE</li> <li>-OH- OVERHEAD UTILITY LINES</li> <li>- - - ACCESS ROAD</li> <li>- - - PROPOSED GAS PIPELINE</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 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>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> <li>LOO</li> <li>111.03</li> <li>C 111.001</li> <li>SOIL TYPE</li> <li>TYPICAL BIC 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, U.S. 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>BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>EROSION CONTROL MATINGS SHALL BE PLACED IN AREAS OF 30% SLOPS AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</li> <li>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>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, 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. CORPS OF ENGINEERS.</li> </ol> |
|--|---|

| NO. | DATE | CHKD. | APPRO. | DESCRIPTION |
|-----|------|-------|--------|-------------|
|     |      |       |        |             |

20" AP-3 PIPELINE  
CONSTRUCTION ALIGNMENT STA 702+00 TO 756+00  
SOUTHAMPTON COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 3/29/17  
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

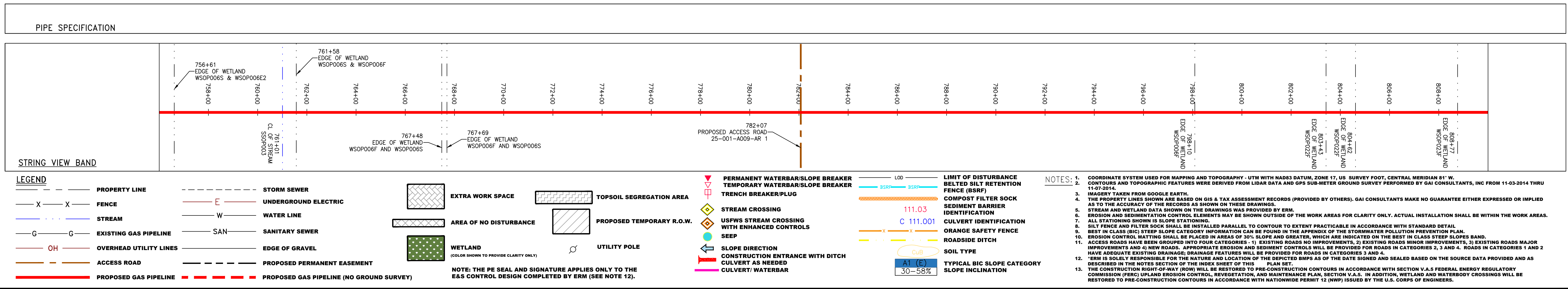
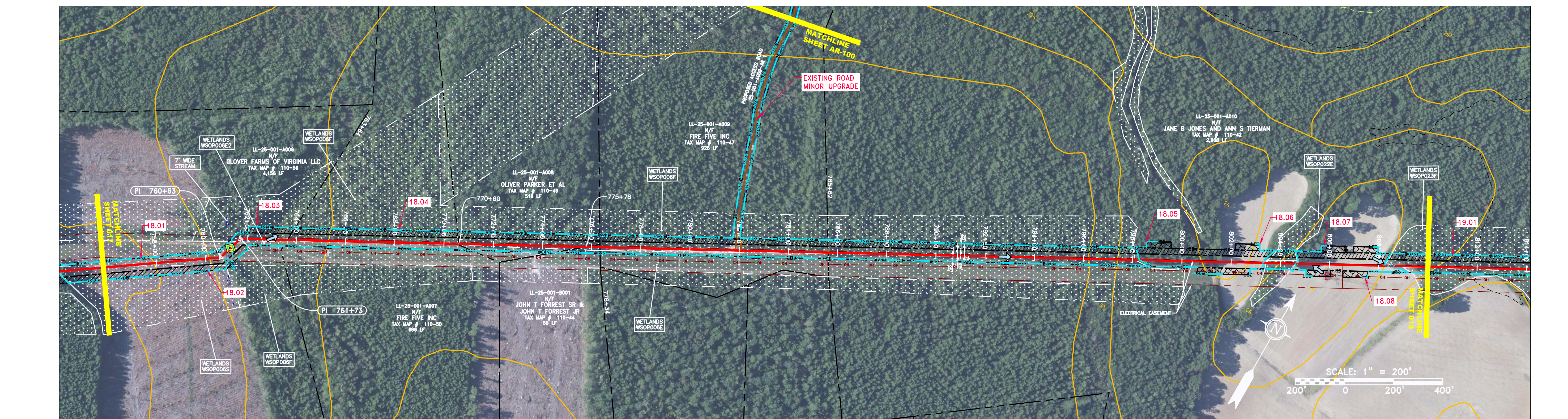
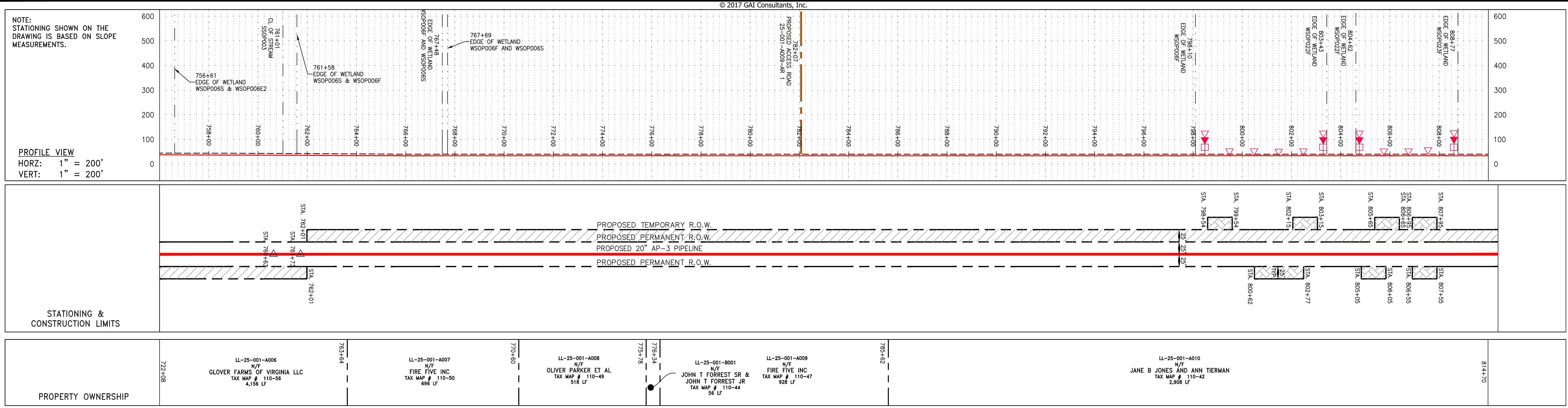
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017 OF 84

3/29/2017 2:26 PM





| NO. | DATE | CHKD. | APPD. | DESCRIPTION |
|-----|------|-------|-------|-------------|
|     |      |       |       |             |

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

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

SCALE: AS SHOWN  
 DATE: 4/5/17  
 DRAWN: GOS  
 CHECKED: DLH  
 APPROVED: NET

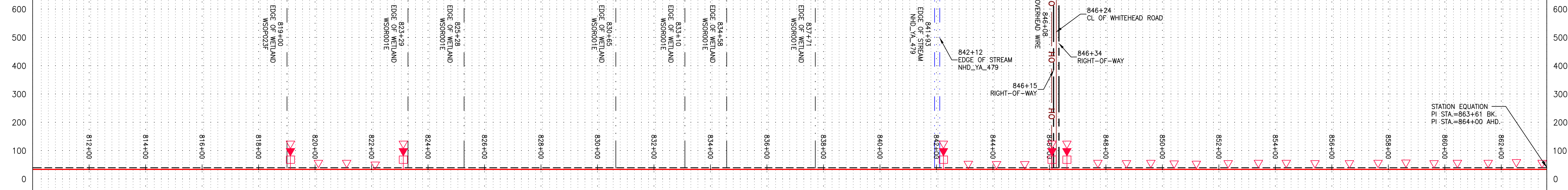
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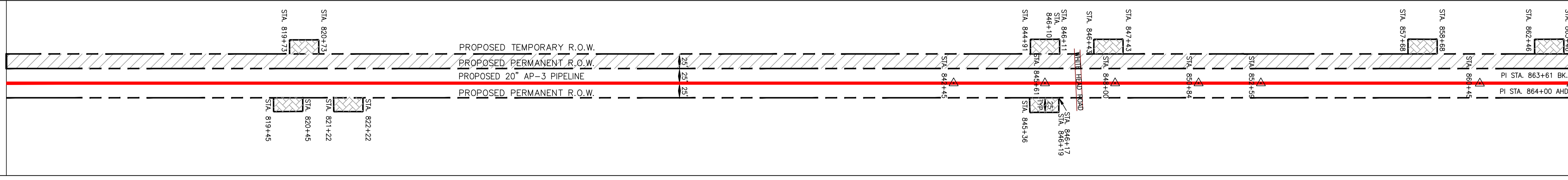


NOTE: STATIONING SHOWN ON THE DRAWING IS BASED ON SLOPE MEASUREMENTS.

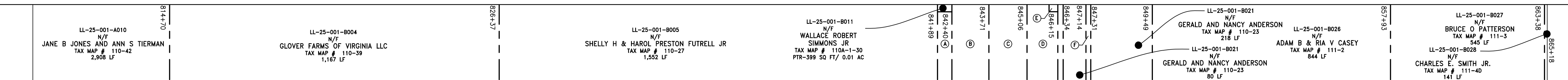
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HORZ: 1" = 200'  
VERT: 1" = 200'



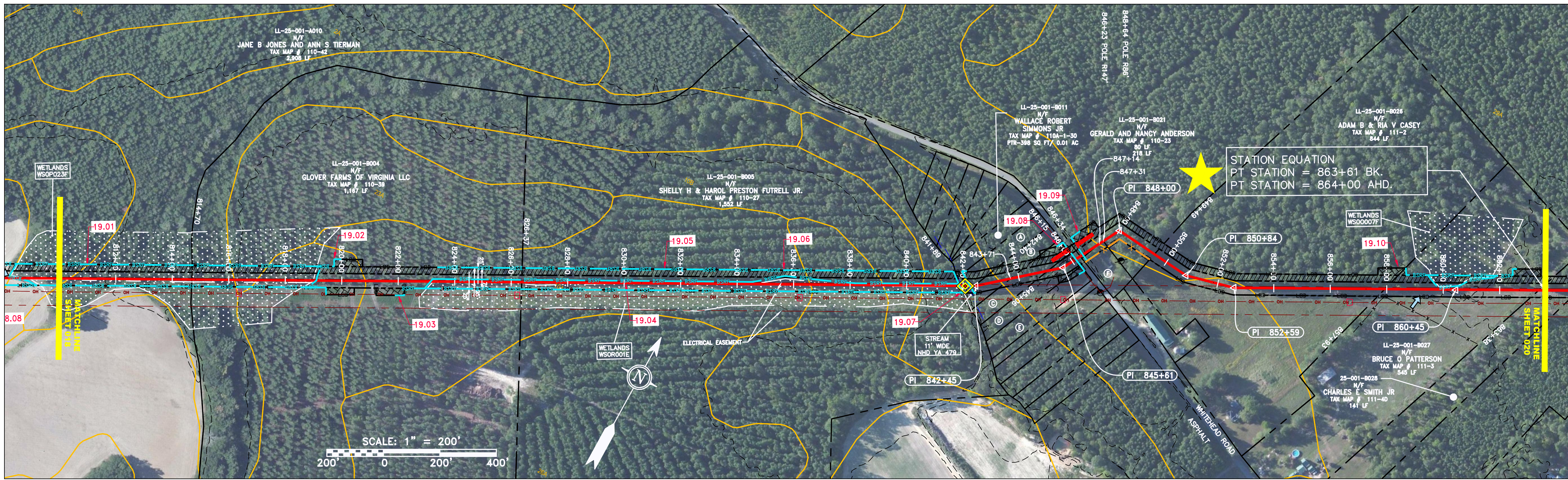
STATIONING & CONSTRUCTION LIMITS



PROPERTY OWNERSHIP

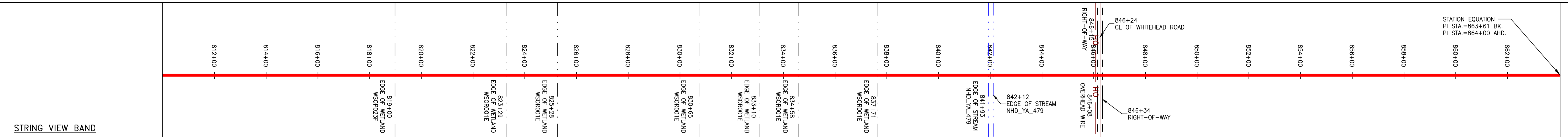


- A LL-25-001-8012 WALLACE ROBERT SIMMONS JR TAX MAP # 110A-1-29 51 LF
- B LL-25-001-8013 WALLACE ROBERT SIMMONS JR TAX MAP # 110A-1-28 151 LF
- C LL-25-001-8014 WALLACE ROBERT SIMMONS JR TAX MAP # 110A-1-27 135 LF
- D LL-25-001-8015 WALLACE ROBERT SIMMONS JR TAX MAP # 110A-1-26 109 LF
- E LL-25-001-8016 WALLACE ROBERT SIMMONS JR TAX MAP # 110A-1-25 EWSA-1,309 SQ FT / 0.03 AC
- F LL-25-001-8022 MARY D BRYANT LIFE EST TAX MAP # 110-24 17 LF



SCALE: 1" = 200'  
0 200 400

PIPE SPECIFICATION

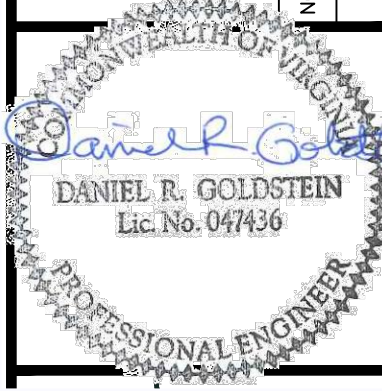


- LEGEND
- PROPERTY LINE
  - FENCE
  - STREAM
  - EXISTING GAS PIPELINE
  - OVERHEAD UTILITY LINES
  - ACCESS ROAD
  - PROPOSED GAS PIPELINE
  - PROPOSED GAS PIPELINE (NO GROUND SURVEY)
  - STORM SEWER
  - UNDERGROUND ELECTRIC
  - WATER LINE
  - SANITARY SEWER
  - EDGE OF GRAVEL
  - PROPOSED PERMANENT EASEMENT
  - PROPOSED PERMANENT R.O.W.
  - EXTRA WORK SPACE
  - AREA OF NO DISTURBANCE
  - WETLAND
  - TOPSOIL SEGREGATION AREA
  - PROPOSED TEMPORARY R.O.W.
  - UTILITY POLE
  - PERMANENT WATERBAR/SLOPE BREAKER
  - TEMPORARY WATERBAR/SLOPE BREAKER
  - TRENCH BREAKER/PLUG
  - STREAM CROSSING
  - USPWS STREAM CROSSING WITH ENHANCED CONTROLS
  - SEEP
  - SLOPE DIRECTION
  - CONSTRUCTION ENTRANCE WITH DITCH
  - CULVERT AS NEEDED
  - CULVERT/WATERBAR
  - LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF)
  - COMPOST FILTER SOCK
  - SEDIMENT BARRIER IDENTIFICATION
  - CULVERT IDENTIFICATION
  - ORANGE SAFETY FENCE
  - ROADSIDE DITCH
  - SOIL TYPE
  - TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

- NOTES:
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
  - 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.
  - IMAGERY TAKEN FROM GOOGLE EARTH.
  - EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
  - STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
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  - 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 SLOPE BAND.
  - ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) 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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  - THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.6 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, VEGETATION, AND MAINTENANCE PLAN, SECTION V.6.5. 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.

REVISIONS

| NO. | DATE | CHKD. | APPROD. | DESCRIPTION |
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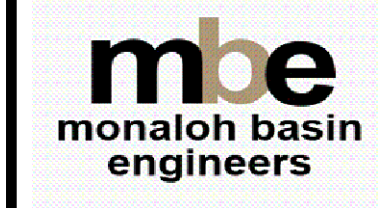


ATLANTIC COAST PIPELINE, LLC  
C/O DOMINION TRANSMISSION, INC.  
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

SCALE: AS SHOWN  
DATE: 3/29/17  
DRAWN: GOS  
CHECKED: DLH  
APPROVED: NET



SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
CANONSBURG, PA 15317  
724-373-3545



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

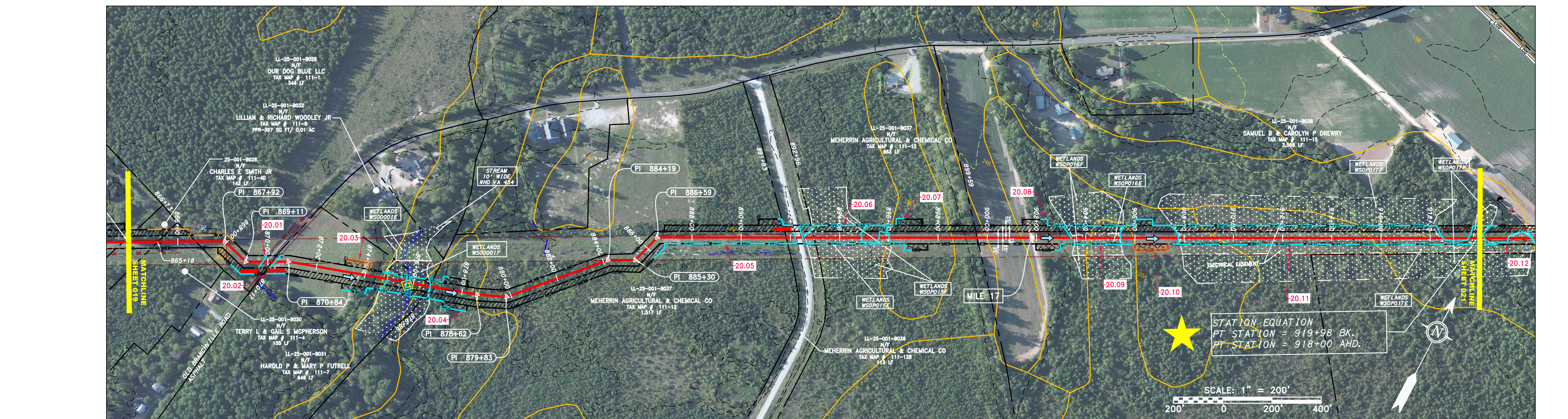
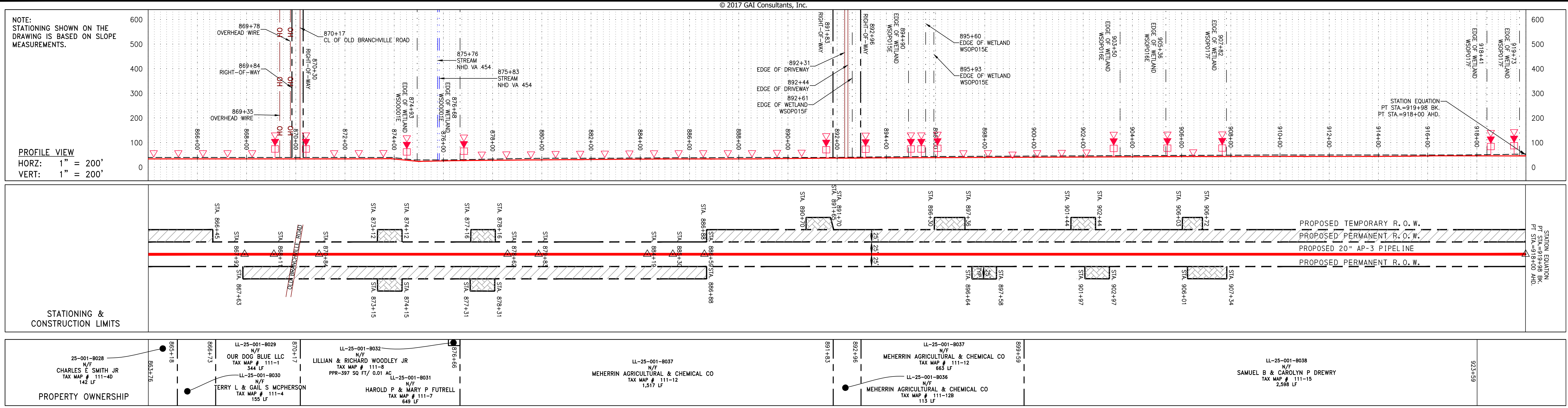
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| 005      | 00           |

GROUP ID: D  
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019 OF 84

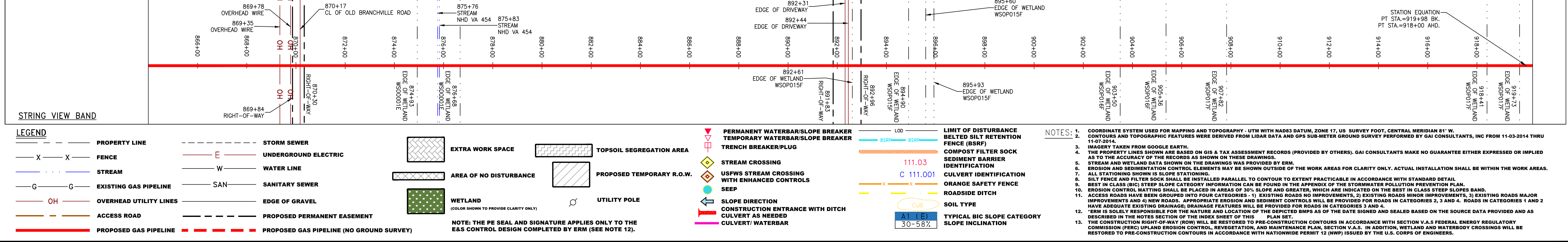
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**PIPE SPECIFICATION**

|                   |   |
|-------------------|---|
| 20" AP-3 PIPELINE | CONSTRUCTION ALIGNMENT STA 864+00 TO 918+00 |
|-------------------|---|



**REVISIONS**

| NO. | DATE | CHKD. | APPD. | DESCRIPTION |
|-----|------|-------|-------|-------------|
|     |      |       |       |             |

**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

**20" AP-3 PIPELINE**  
 CONSTRUCTION ALIGNMENT STA 864+00 TO 918+00  
 SOUTHAMPTON COUNTY, VIRGINIA

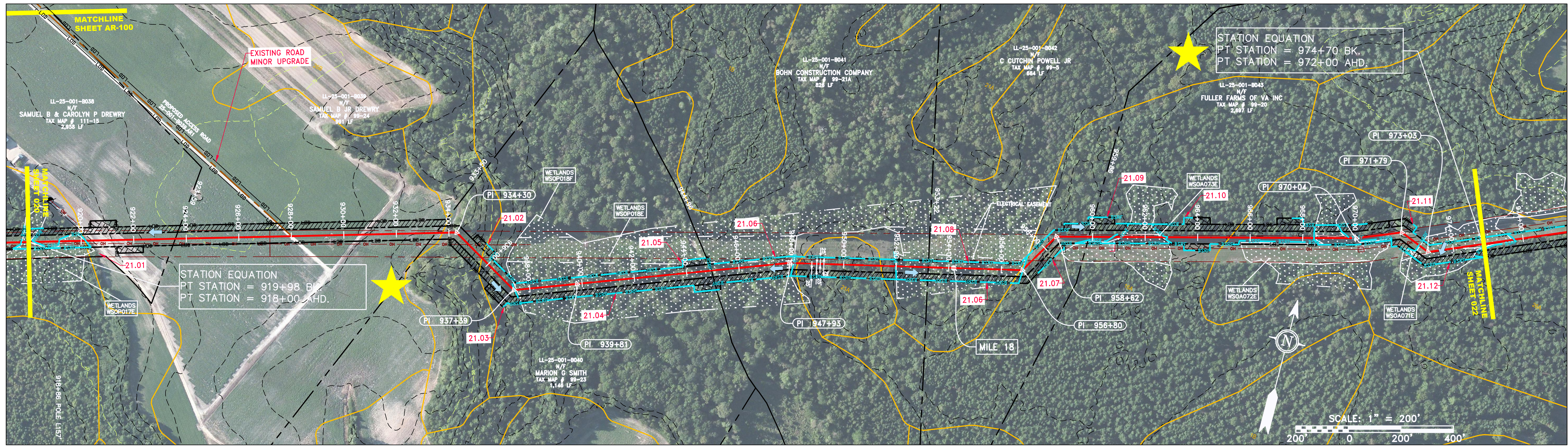
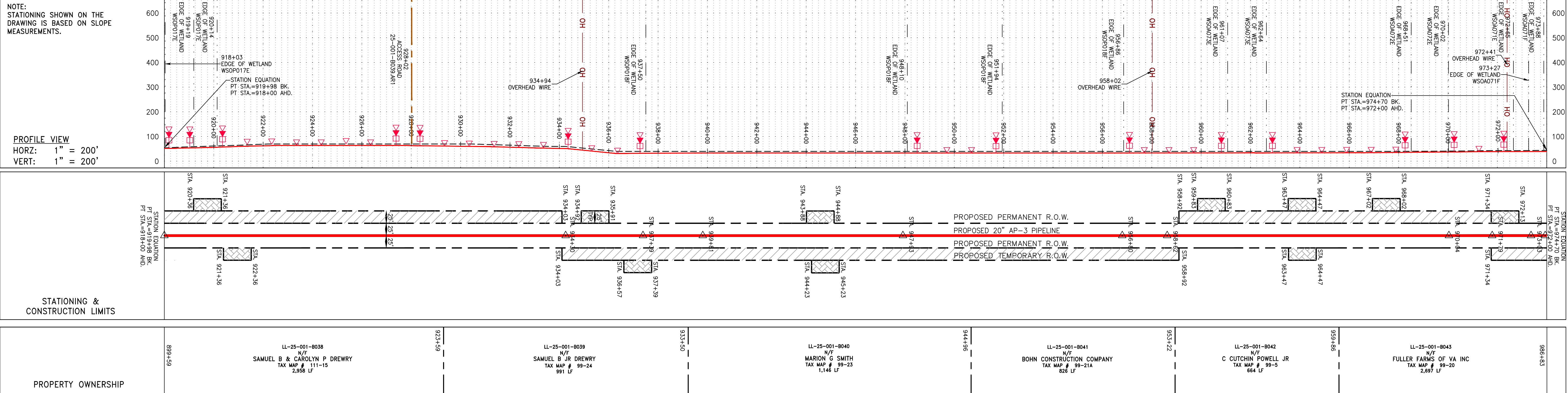
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 DATE: 3/28/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

**gai consultants**  
 SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 PITTSBURGH, PA 15317  
 724-273-3545

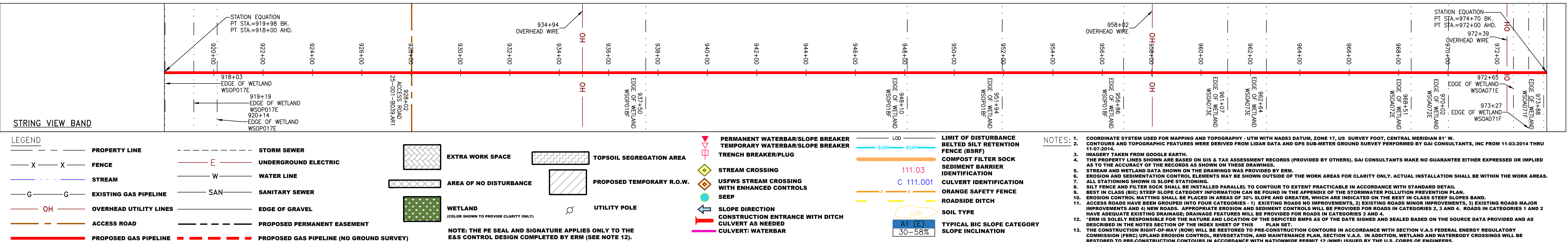
**mbe monaloh basin engineers**  
 300 BUSINESS CENTER DRIVE  
 PITTSBURGH, PA 15205  
 412-788-2433

PROJECT NO./DASH NO. 140468  
 TASK NO. SUB TASK NO. 005 00  
 GROUP ID DRAWING NO. D E020  
 020 OF 84 3/28/2017 2:01 PM





PIPE SPECIFICATION



| NO. | DATE | CHKD. | APPROV. | DESCRIPTION |
|-----|------|-------|---------|-------------|
|     |      |       |         |             |

20" AP-3 PIPELINE  
CONSTRUCTION ALIGNMENT STA 918+00 TO 972+00  
SOUTHAMPTON COUNTY, VIRGINIA

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

Daniel R. Goldstein  
Lic. No. 047436  
PROFESSIONAL ENGINEER

ERM

|           |          |
|-----------|----------|
| SCALE:    | AS SHOWN |
| DATE:     | 4/5/17   |
| DRAWN:    | JMS      |
| CHECKED:  | DLH      |
| APPROVED: | NET      |

gai consultants

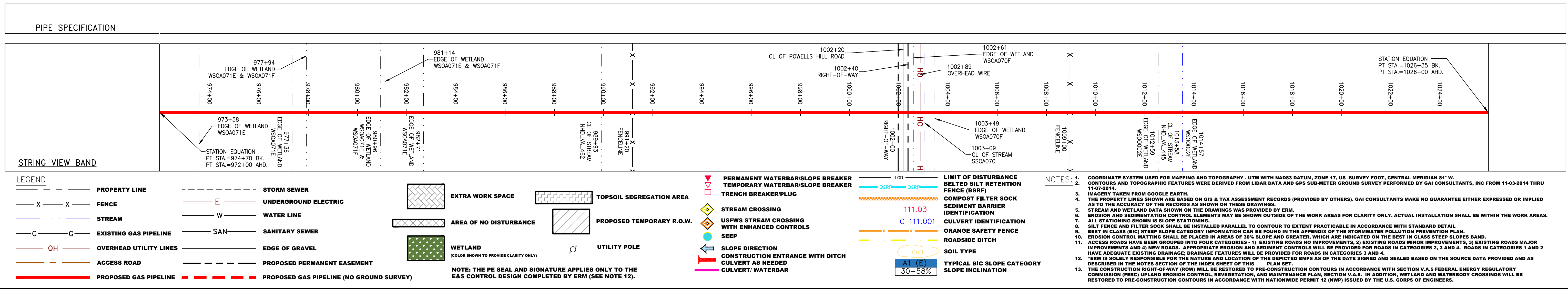
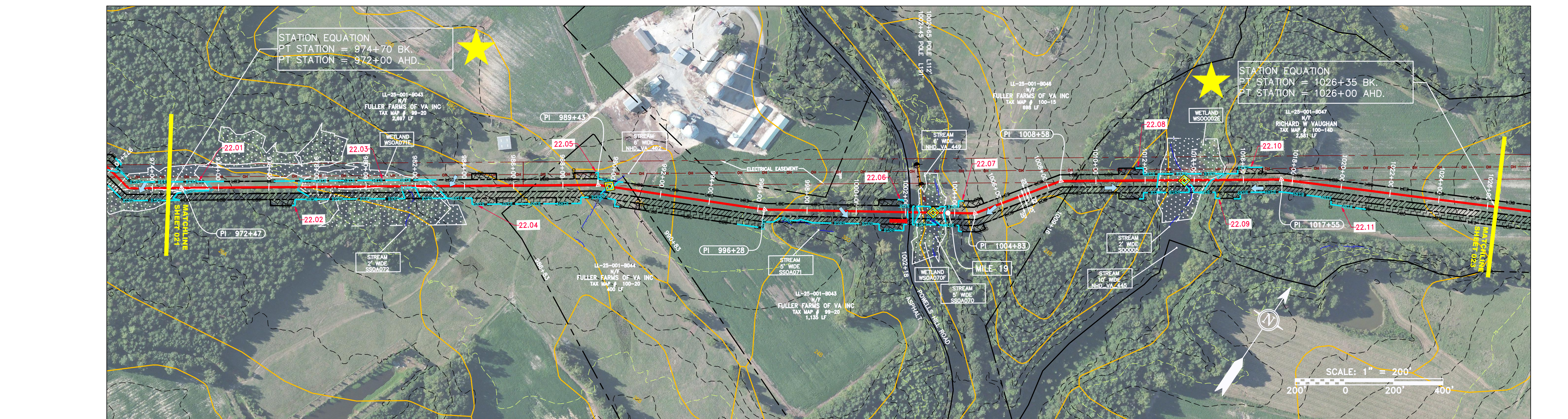
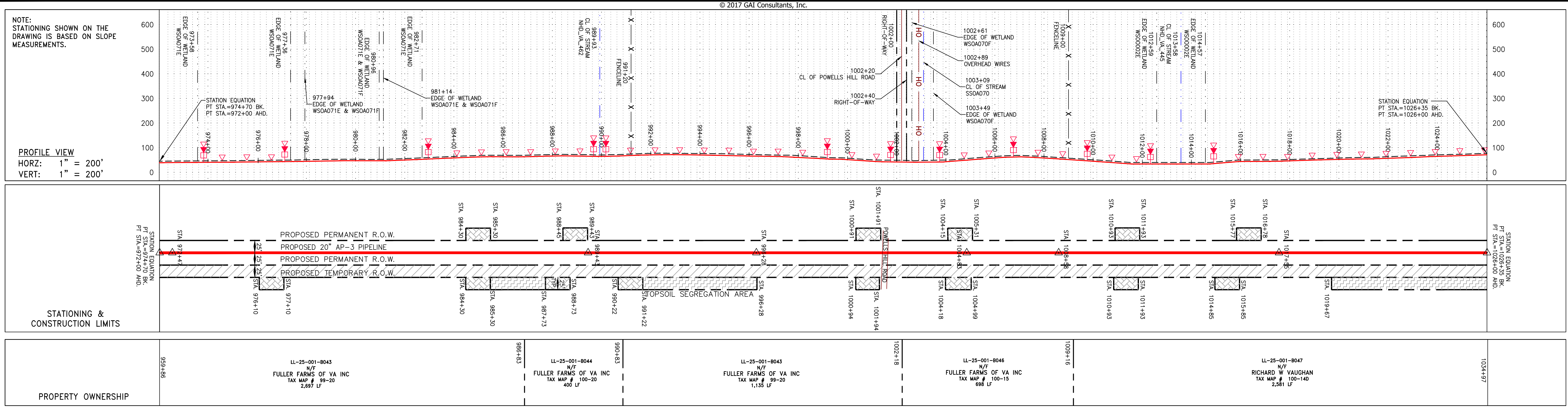
SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
CANONSBURG, PA 15317  
724-873-3545

mbe  
monahon basin  
engineers

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

|                      |        |                  |
|----------------------|--------|------------------|
| PROJECT NO./DASH NO. | 140468 |                  |
| TASK NO.             | 005    | SUB TASK NO. 00  |
| GROUP ID             | D      | DRAWING NO. E021 |
| 021                  | OF     | 84               |





| REVISIONS |      | DESCRIPTION  |
|-----------|------|--------------|
| NO.       | DATE | CHKD. APPVD. |
|           |      |              |
|           |      |              |

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

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

SCALE: AS SHOWN  
 DATE: 3/28/17  
 DRAWN: JMS  
 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

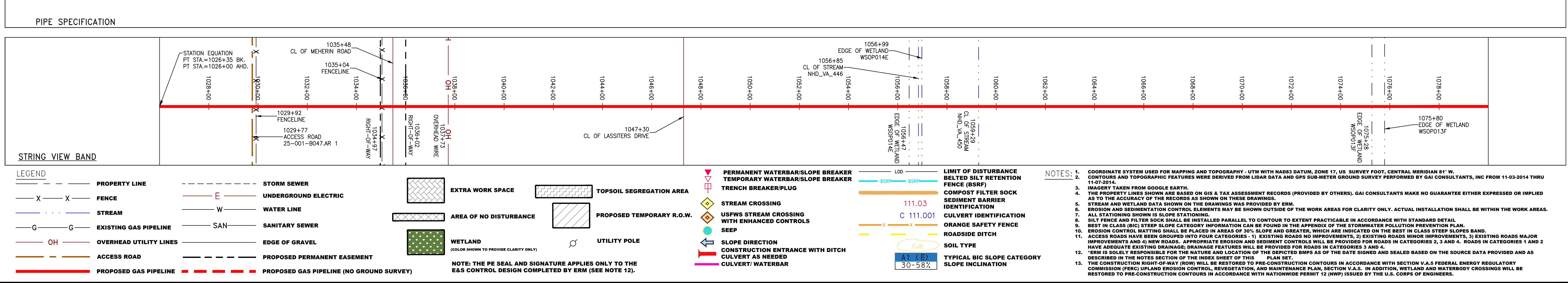
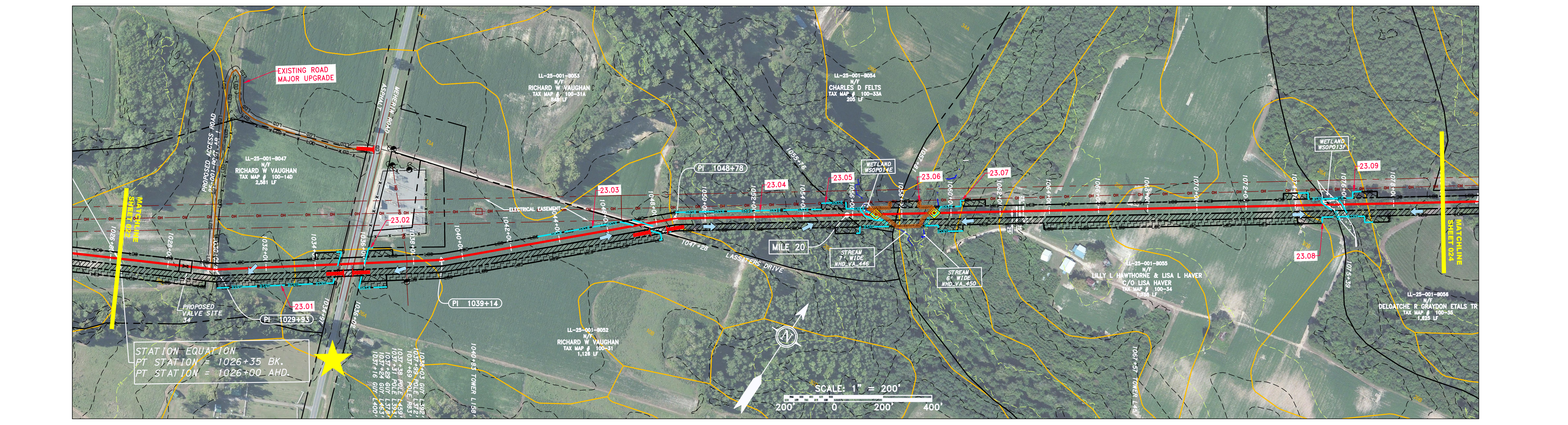
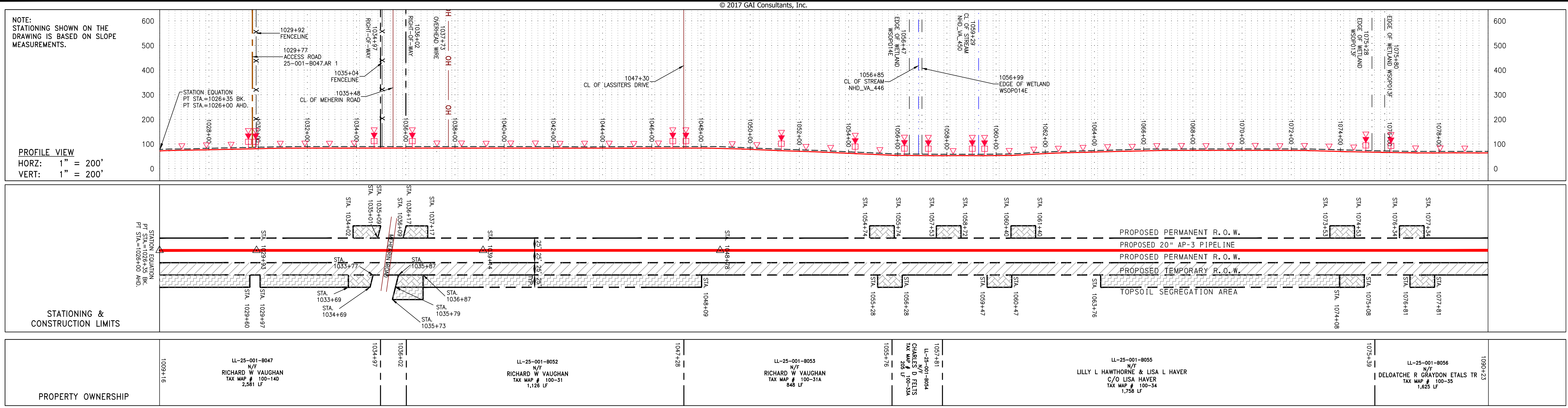
PROJECT NO./DASH NO.  
 140468

TASK NO. SUB TASK NO.  
 005 00

GROUP ID DRAWING NO.  
 D E022

022 OF 84





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

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

STATIONING & CONSTRUCTION LIMITS

PROPERTY OWNERSHIP

SCALE: AS SHOWN  
 DATE: 4/10/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

PROJECT NO./DASH NO. 140468  
 TASK NO. 005 SUB TASK NO. 00  
 GROUP ID D DRAWING NO. E023  
 023 OF 84

REVISIONS

DANIEL L. GOLDSTEIN  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

ERM

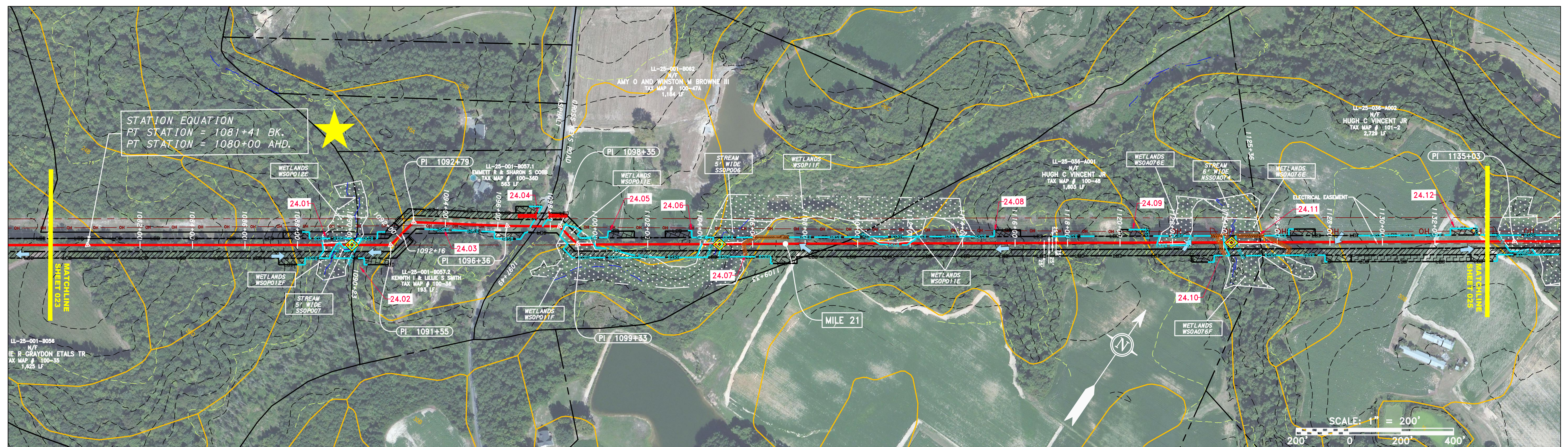
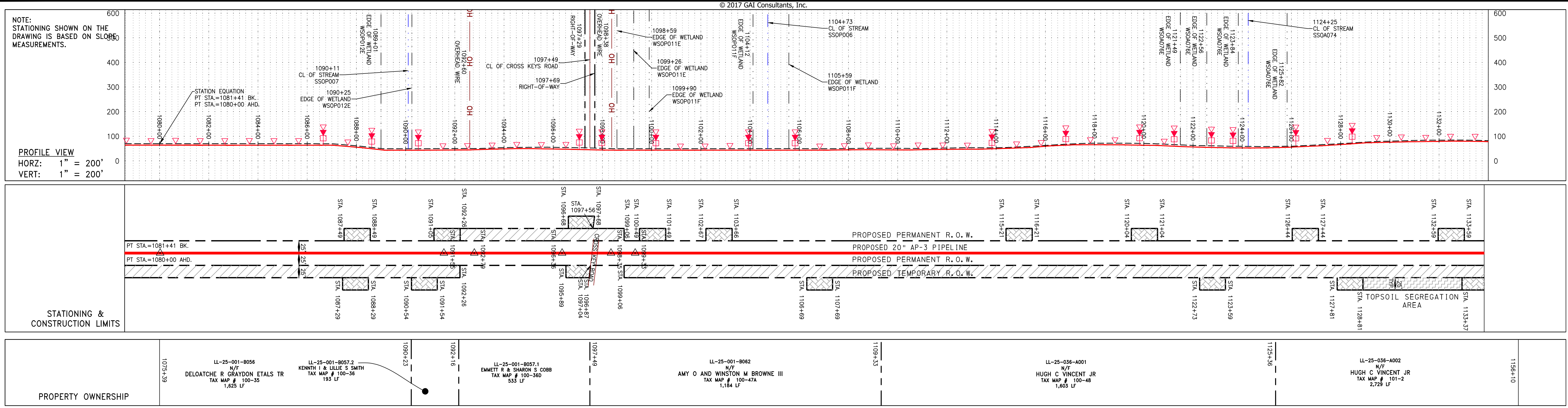
CONSTRUCTION ALIGNMENT STA 1026+00 TO 1080+00  
 SOUTHAMPTON COUNTY, VIRGINIA

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

NOTES:  
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 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.  
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 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 BEST IN CLASS (BIC) STEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.  
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THIS DRAWING WAS PRODUCED WITH COMPUTER AIDED DRAFTING TECHNOLOGY AND IS SUPPORTED BY ELECTRONIC DRAWING FILES. DO NOT REVISE THIS DRAWING VIA MANUAL DRAFTING METHODS.





**PIPE SPECIFICATION**

**STRING VIEW BAND**

**LEGEND**

|           |               |       |                       |       |                        |           |                                  |        |                                  |           |                                  |           |  |
|-----------|---------------|-------|-----------------------|-------|------------------------|-----------|----------------------------------|--------|----------------------------------|-----------|----------------------------------|-----------|--|
| — X — X — | PROPERTY LINE | — E — | STORM SEWER           | — W — | UNDERGROUND ELECTRIC   | — G — G — | EXISTING GAS PIPELINE            | — OH — | OVERHEAD UTILITY LINES           | — A — A — | ACCESS ROAD                      | — P — P — | PROPOSED GAS PIPELINE (NO GROUND SURVEY) |
| —         | FENCE         | —     | SANITARY SEWER        | —     | EDGE OF GRAVEL         | —         | PROPOSED PERMANENT EASEMENT      | —      | PROPOSED PERMANENT R.O.W.        | —         | PROPOSED TEMPORARY R.O.W.        | —         | TOPSOIL SEGREGATION AREA                 |
| —         | STREAM        | —     | EDGE OF WETLAND       | —     | AREA OF NO DISTURBANCE | —         | UTILITY POLE                     | —      | PERMANENT WATERBAR/SLOPE BREAKER | —         | TEMPORARY WATERBAR/SLOPE BREAKER | —         | TRENCH BREAKER/PLUG                      |
| —         | WETLAND       | —     | CL OF CROSS KEYS ROAD | —     | RIGHT-OF-WAY           | —         | CONSTRUCTION ENTRANCE WITH DITCH | —      | CULVERT AS NEEDED                | —         | CULVERT/WATERBAR                 | —         | LIMIT OF DISTURBANCE                     |
| —         | WETLAND       | —     | CL OF STREAM          | —     | RIGHT-OF-WAY           | —         | CONSTRUCTION ENTRANCE WITH DITCH | —      | CULVERT AS NEEDED                | —         | CULVERT/WATERBAR                 | —         | BELTED SILT RETENTION FENCE (BSRF)       |
| —         | WETLAND       | —     | CL OF STREAM          | —     | RIGHT-OF-WAY           | —         | CONSTRUCTION ENTRANCE WITH DITCH | —      | CULVERT AS NEEDED                | —         | CULVERT/WATERBAR                 | —         | COMPOST FILTER SOCK                      |
| —         | WETLAND       | —     | CL OF STREAM          | —     | RIGHT-OF-WAY           | —         | CONSTRUCTION ENTRANCE WITH DITCH | —      | CULVERT AS NEEDED                | —         | CULVERT/WATERBAR                 | —         | SEDIMENT BARRIER IDENTIFICATION          |
| —         | WETLAND       | —     | CL OF STREAM          | —     | RIGHT-OF-WAY           | —         | CONSTRUCTION ENTRANCE WITH DITCH | —      | CULVERT AS NEEDED                | —         | CULVERT/WATERBAR                 | —         | CULVERT IDENTIFICATION                   |
| —         | WETLAND       | —     | CL OF STREAM          | —     | RIGHT-OF-WAY           | —         | CONSTRUCTION ENTRANCE WITH DITCH | —      | CULVERT AS NEEDED                | —         | CULVERT/WATERBAR                 | —         | ORANGE SAFETY FENCE                      |
| —         | WETLAND       | —     | CL OF STREAM          | —     | RIGHT-OF-WAY           | — </tr    |                                  |        |                                  |           |                                  |           |  |

**NOTES:**

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**REVISIONS**

| NO. | DATE | BY | CHKD. | APPROV. | DESCRIPTION |
|-----|------|----|-------|---------|-------------|
|     |      |    |       |         |             |

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

**ERM**

**20" AP-3 PIPELINE**  
 CONSTRUCTION ALIGNMENT STA 1080+00 TO 1134+00  
 SOUTHAMPTON COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
 DATE: 3/29/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

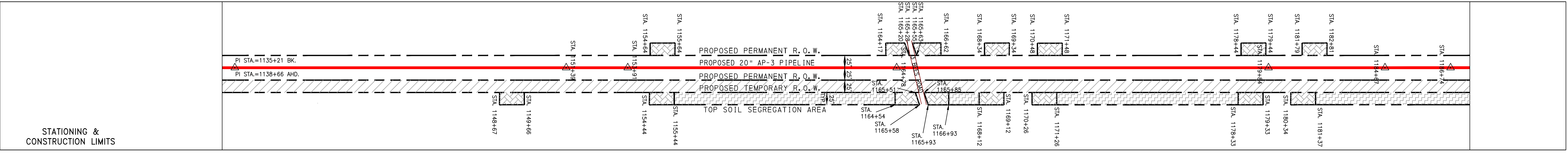
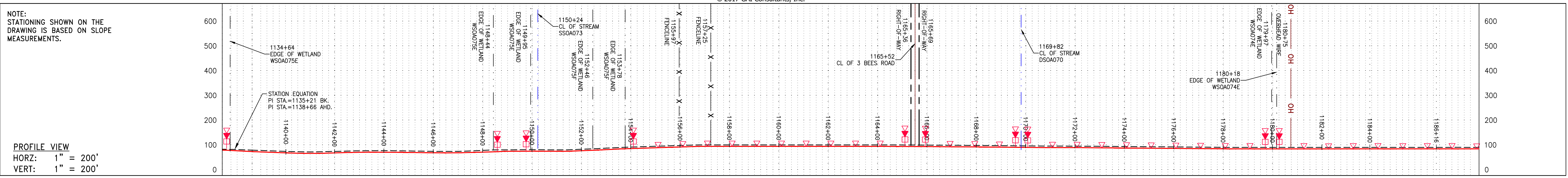
**gai consultants**  
 SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
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**mbe monaloh basin engineers**  
 300 BUSINESS CENTER DRIVE  
 PITTSBURGH, PA 15205  
 412-788-2433

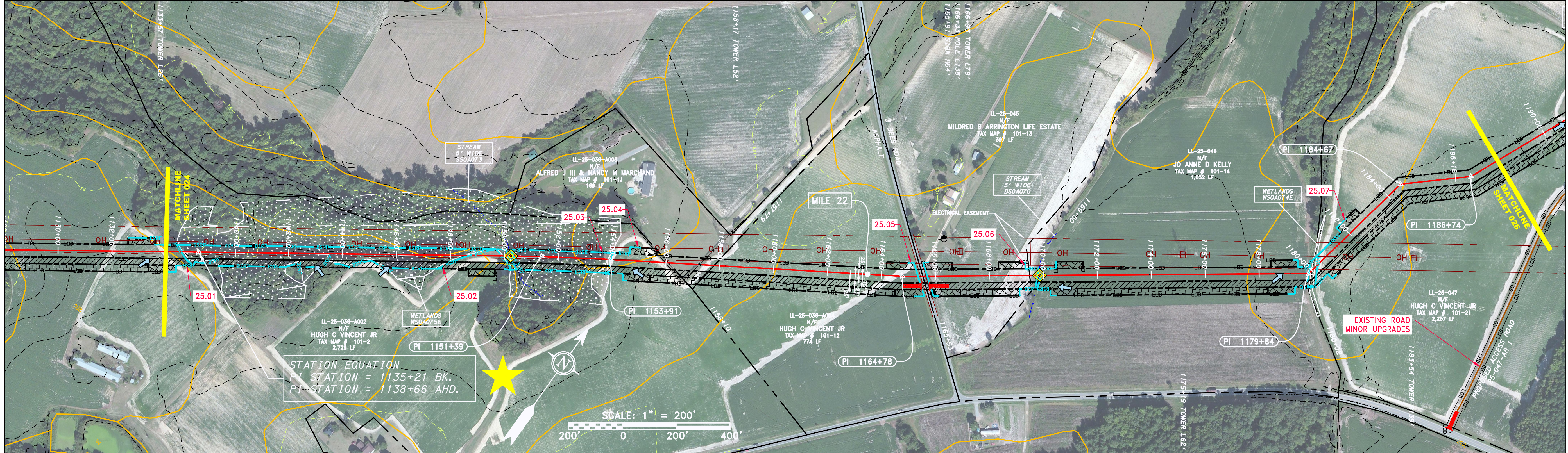
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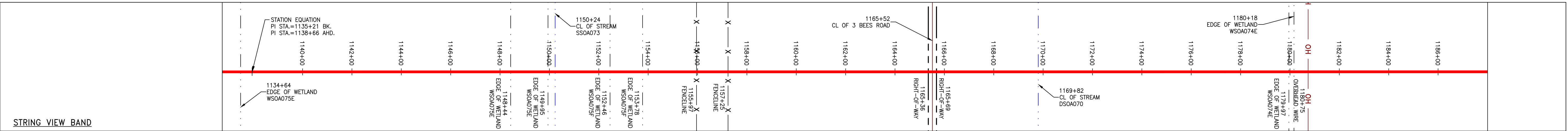




| PROPERTY OWNERSHIP   | STATIONING & CONSTRUCTION LIMITS |
|--|----------------------------------|
| 1125+36  | 1135+21                          |
| LL-25-036-A002<br>N/F<br>HUGH C VINCENT JR<br>TAX MAP # 101-2<br>2,728 LF              | 1135+21                          |
| LL-25-036-A003<br>N/F<br>ALFRED J III & NANCY M MARCHAND<br>TAX MAP # 101-1J<br>169 LF | 1149+67                          |
| LL-25-036-A004<br>N/F<br>HUGH C VINCENT JR<br>TAX MAP # 101-12<br>774 LF               | 1154+44                          |
| LL-25-045<br>N/F<br>MILDRED B ARRINGTON LIFE ESTATE<br>TAX MAP # 101-15<br>397 LF      | 1164+12                          |
| LL-25-046<br>N/F<br>JO ANNE D KELLY<br>TAX MAP # 101-14<br>1,052 LF                    | 1178+33                          |
| LL-25-047<br>N/F<br>HUGH C VINCENT JR<br>TAX MAP # 101-21<br>2,257 LF                  | 1182+81                          |
| 1202+59  | 1182+81                          |



PIPE SPECIFICATION



**LEGEND**

|                                  |  |                                    |  |
|----------------------------------|--|------------------------------------|--|
| — — — — — PROPERTY LINE          | — — — — — STORM SEWER                              | — — — — — EXTRA WORK SPACE         | — — — — — LIMIT OF DISTURBANCE               |
| X — X — — FENCE                  | — — — — — UNDERGROUND ELECTRIC                     | — — — — — TOPSOIL SEGREGATION AREA | — — — — — BELTED SILT RETENTION FENCE (BSRF) |
| — — — — — STREAM                 | — — — — — WATER LINE                               | — — — — — AREA OF NO DISTURBANCE   | — — — — — COMPOST FILTER SOCK                |
| G — G — — EXISTING GAS PIPELINE  | — — — — — SANITARY SEWER                           | — — — — — WETLAND                  | — — — — — SEDIMENT BARRIER IDENTIFICATION    |
| — — — — — OVERHEAD UTILITY LINES | — — — — — EDGE OF GRAVEL                           | — — — — — UTILITY POLE             | — — — — — CULVERT IDENTIFICATION             |
| — — — — — ACCESS ROAD            | — — — — — PROPOSED PERMANENT EASEMENT              | — — — — —                          | — — — — — ORANGE SAFETY FENCE                |
| — — — — — PROPOSED GAS PIPELINE  | — — — — — PROPOSED GAS PIPELINE (NO GROUND SURVEY) | — — — — —                          | — — — — — ROADSIDE DITCH                     |

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, U.S. SURVEY FOOT, CENTRAL MERIDIAN 81° W.
- 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.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- 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 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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- 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.5.5. 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.

REVISIONS

| NO. | DATE | CHKD. | APPD. | DESCRIPTION |
|-----|------|-------|-------|-------------|
|     |      |       |       |             |

CONSTRUCTION ALIGNMENT STA 1134+00 TO 1188+00  
SOUTHAMPTON COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 3/30/17  
DRAWN: TJM  
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

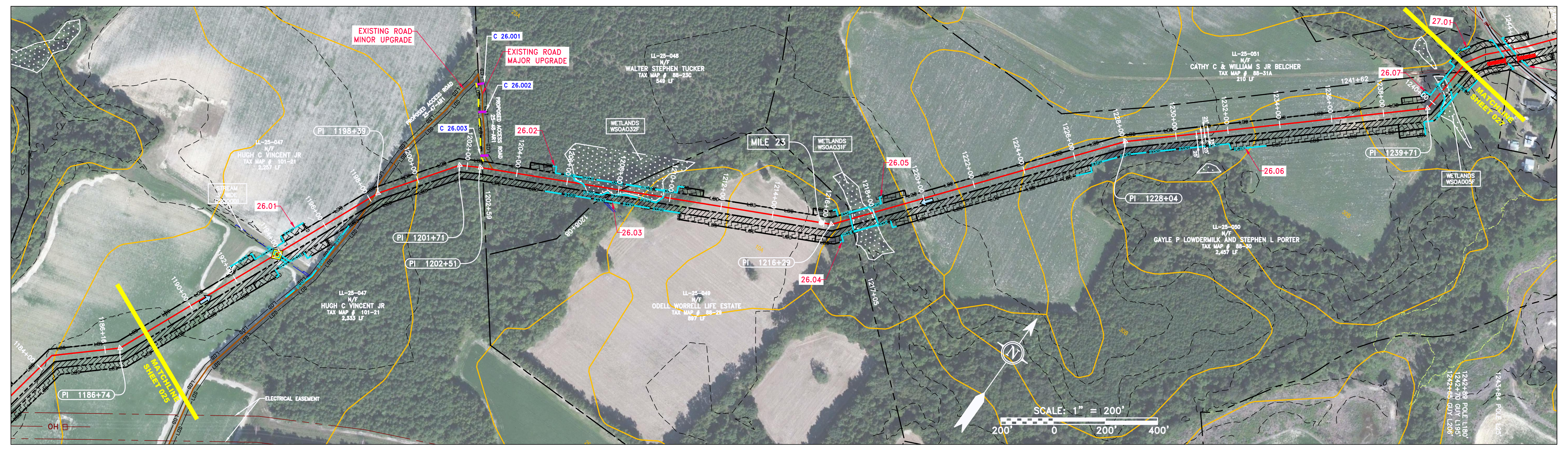
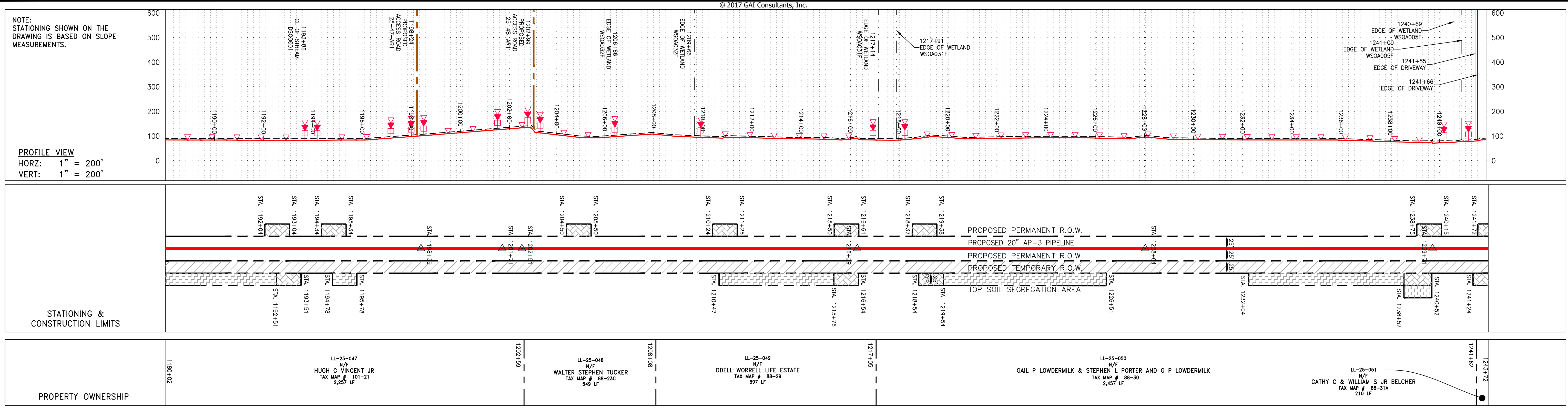
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GROUP ID  
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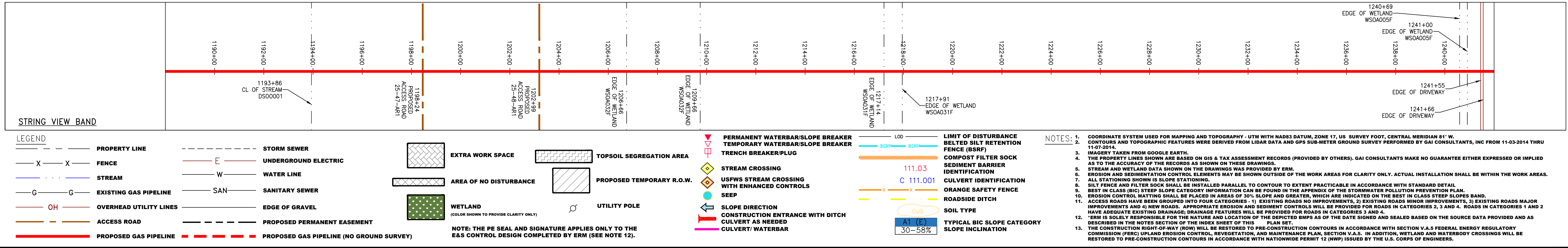
DRAWING NO.  
E025

025 OF 84





PIPE SPECIFICATION



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| NO. | DATE | CHKD. | APPROV. | DESCRIPTION |
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|     |      |       |         |             |

**REVISIONS**

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

**ERM**

20" AP-3 PIPELINE  
 CONSTRUCTION ALIGNMENT STA 1188+00 TO 1242+00  
 SOUTHAMPTON COUNTY, VIRGINIA

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

|           |          |
|-----------|----------|
| SCALE:    | AS SHOWN |
| DATE:     | 5/1/17   |
| DRAWN:    | GOS      |
| CHECKED:  | DLH      |
| APPROVED: | NET      |

**gai consultants**

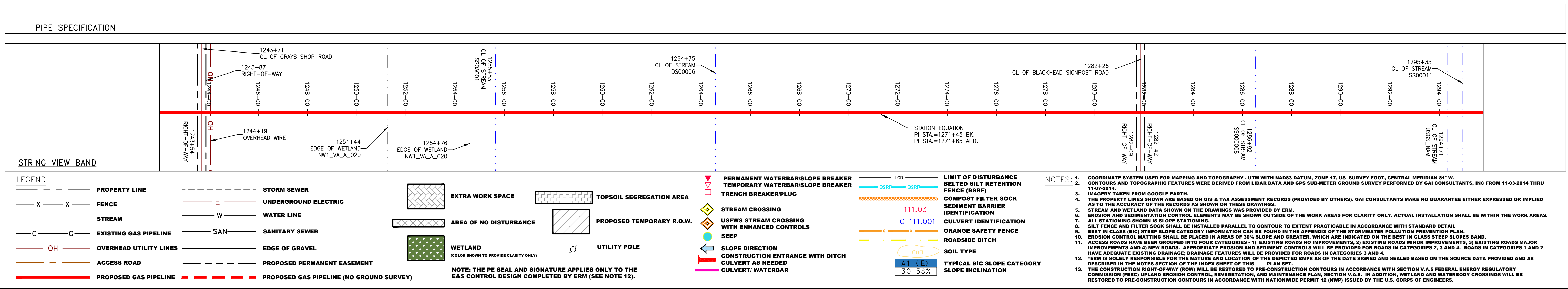
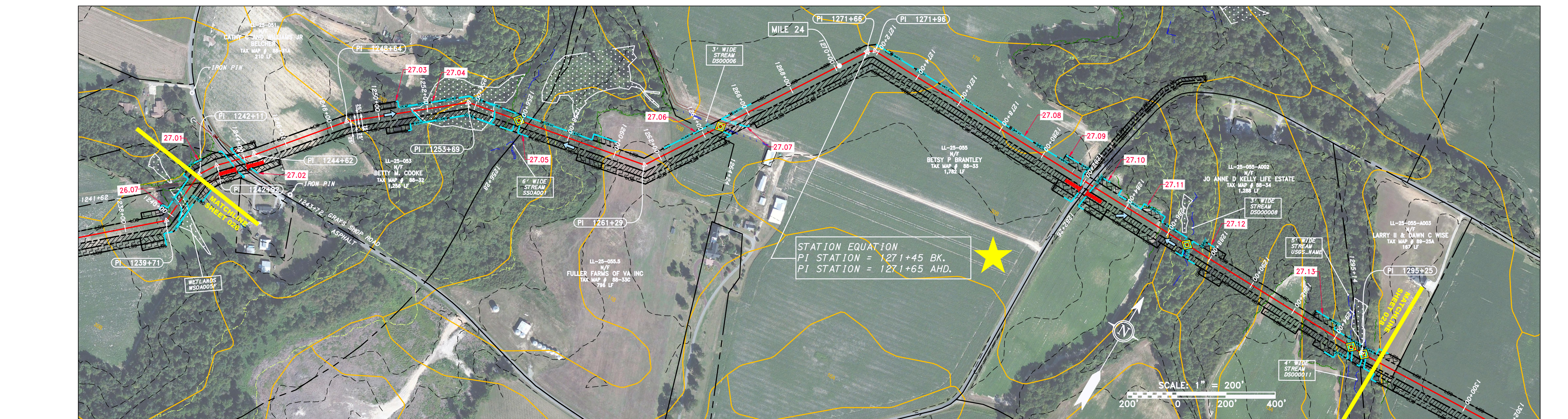
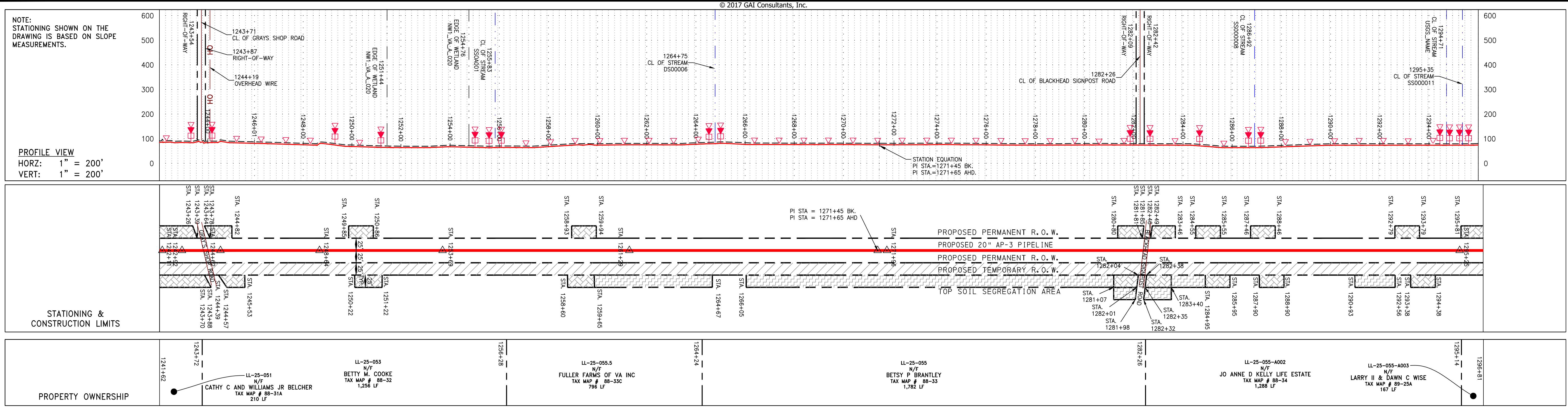
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-673-3545

**mbe**  
 monaloh basin engineers

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

|                      |        |                  |
|----------------------|--------|------------------|
| PROJECT NO./DASH NO. | 140468 |                  |
| TASK NO.             | 005    | SUB TASK NO. 00  |
| GROUP ID             | D      | DRAWING NO. E026 |
| 026                  | OF     | 84               |





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REVISIONS

| NO. | DATE | CHKD. | APPROV. | DESCRIPTION |
|-----|------|-------|---------|-------------|
|     |      |       |         |             |

Daniel R. Goldstein  
DANIEL R. GOLDSTEIN  
Lic. No. 047436

ERM

CONSTRUCTION ALIGNMENT STA 1242+00 TO 1296+00  
SOUTHAMPTON COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 3/30/17  
DRAWN: TJM  
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

|          |              |
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| TASK NO. | SUB TASK NO. |
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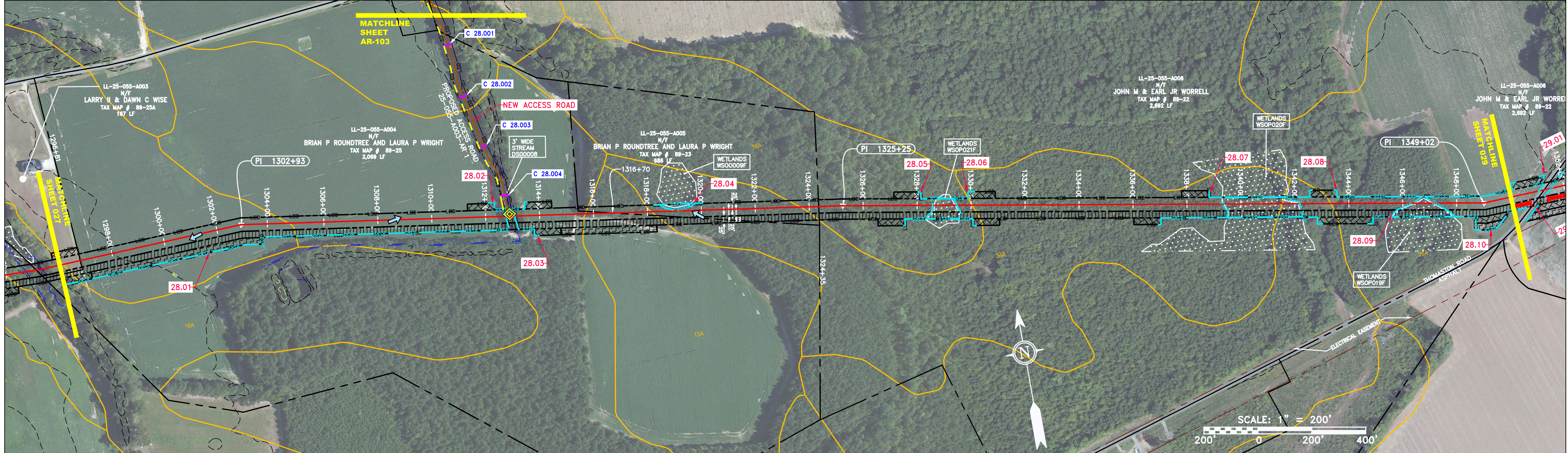
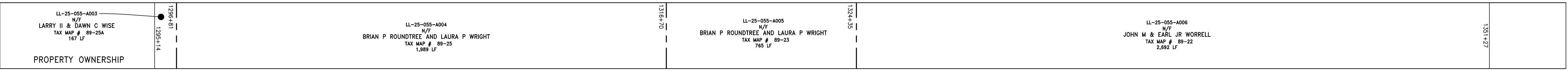
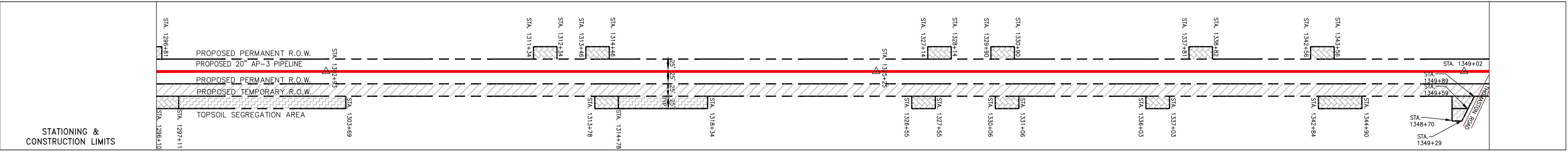
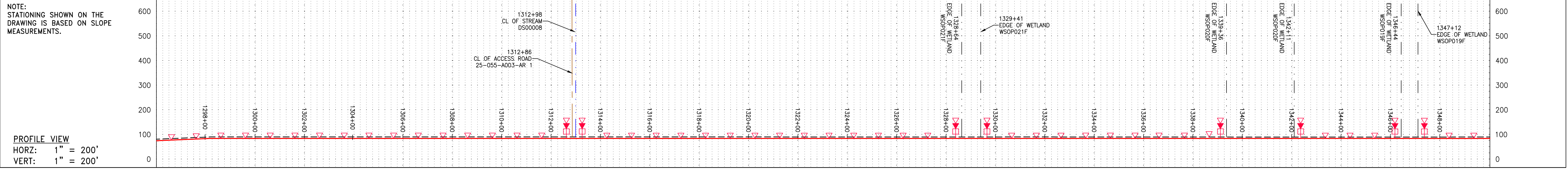
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027 OF 84

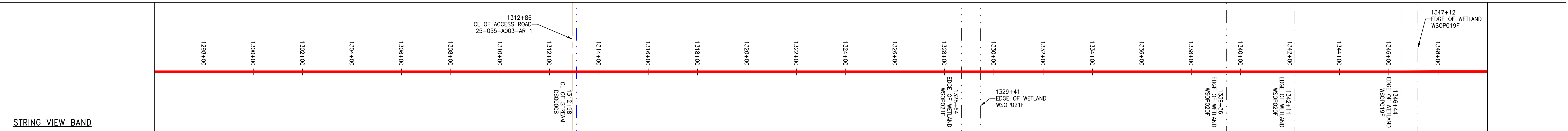
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PIPE SPECIFICATION



**LEGEND**

|  |                                   |   |  |
|--|-----------------------------------|---|--|
| --- PROPERTY LINE                              | --- STORM SEWER                   | --- EXTRA WORK SPACE                              | --- LIMIT OF DISTURBANCE               |
| -X-X- FENCE                                    | -E- UNDERGROUND ELECTRIC          | --- TOPSOIL SEGREGATION AREA                      | --- BELTED SILT RETENTION FENCE (BSRF) |
| -G-G- EXISTING GAS PIPELINE                    | -W- WATER LINE                    | --- AREA OF NO DISTURBANCE                        | --- COMPOST FILTER SOCK IDENTIFICATION |
| -OH- OVERHEAD UTILITY LINES                    | -SAN- SANITARY SEWER              | --- WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) | --- CULVERT IDENTIFICATION             |
| - - - ACCESS ROAD                              | - - - EDGE OF GRAVEL              | --- UTILITY POLE                                  | --- ORANGE SAFETY FENCE                |
| - - - PROPOSED GAS PIPELINE                    | - - - PROPOSED PERMANENT EASEMENT | --- UTILITY POLE                                  | --- ROADSIDE DITCH                     |
| - - - PROPOSED GAS PIPELINE (NO GROUND SURVEY) | - - - PROPOSED PERMANENT R.O.W.   | --- UTILITY POLE                                  | --- SOIL TYPE                          |
|  |                                   |   | --- SLOPE INCLINATION                  |

**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.
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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.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
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| NO. | DATE | CHKD. | APPROV. | DESCRIPTION |
|-----|------|-------|---------|-------------|
|     |      |       |         |             |

**REVISIONS**

CONSTRUCTION ALIGNMENT STA 1296+00 TO 1350+00  
SOUTHAMPTON COUNTY, VIRGINIA

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

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

**ERM**

SCALE: AS SHOWN  
DATE: 4/21/17  
DRAWN: GOS  
CHECKED: DLH  
APPROVED: NET

**gai consultants**

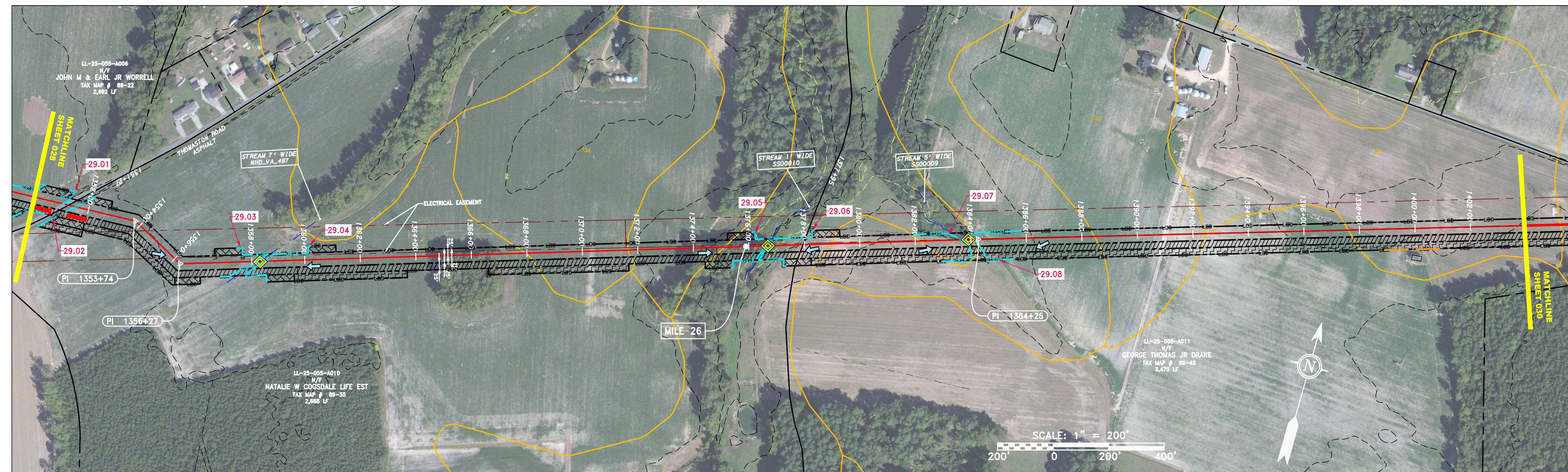
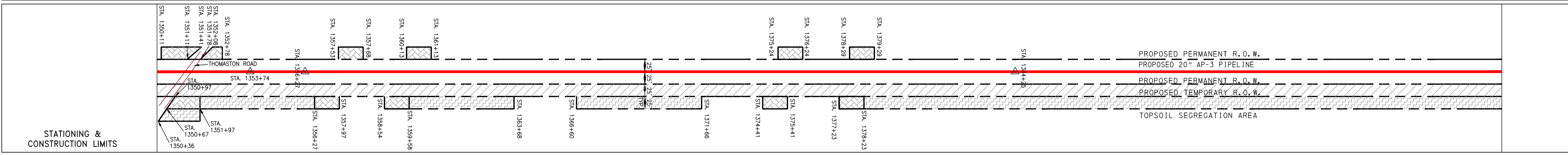
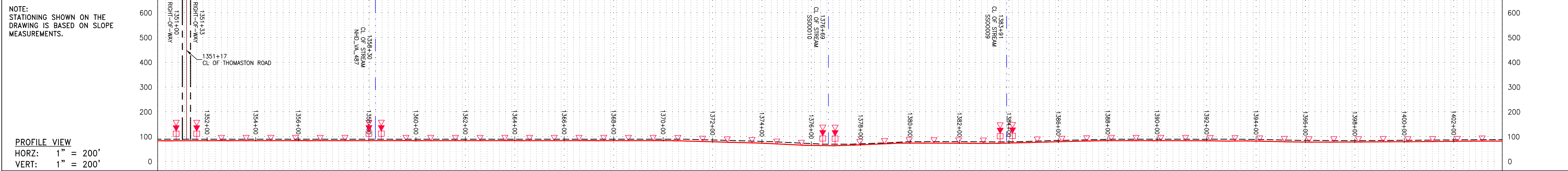
SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
CANONSBURG, PA 15317  
724-673-3545

**mbe monaloh basin engineers**

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

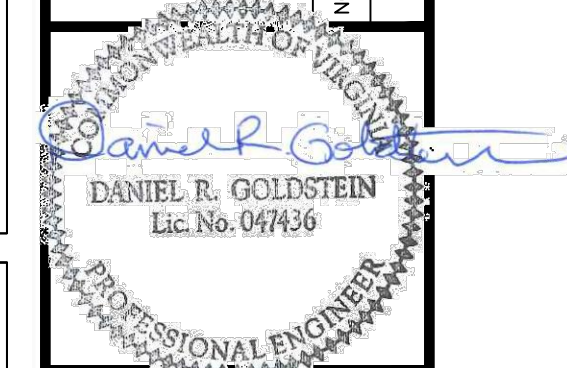
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| TASK NO.             | 005    | SUB TASK NO. 00  |
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| 028                  | OF     | 84               |





REVISIONS

| NO. | DATE | CHKD. | APPROV. | DESCRIPTION |
|-----|------|-------|---------|-------------|
|     |      |       |         |             |



20" AP-3 PIPELINE  
 CONSTRUCTION ALIGNMENT STA 1350+00 TO 1404+00  
 SOUTHAMPTON COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
 DATE: 3/22/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET



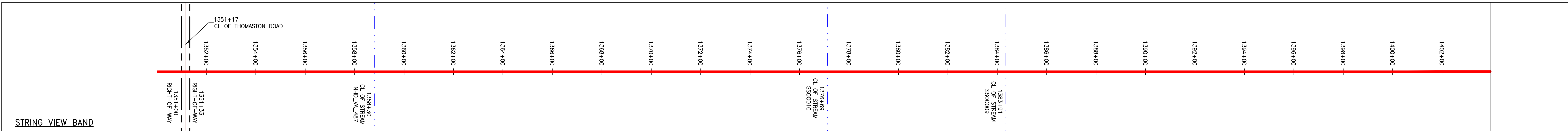
SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-373-3545



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      | E029 |
| 029                  | OF 84        |        |      |

PIPE SPECIFICATION



**LEGEND**

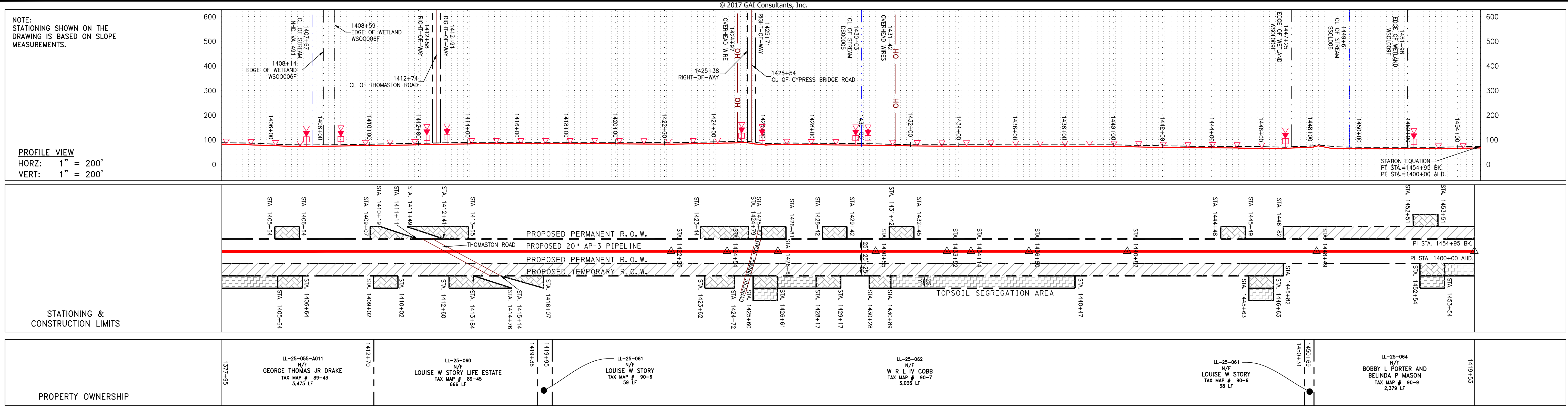
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| --- PROPERTY LINE | --- STORM SEWER          | --- EXTRA WORK SPACE       | --- TOPSOIL SEGREGATION AREA  | --- LIMIT OF DISTURBANCE | --- BELTED SILT RETENTION FENCE (BSRF)           | --- COMPOST FILTER SOCK | --- SEDIMENT BARRIER IDENTIFICATION  | --- CULVERT IDENTIFICATION | --- ORANGE SAFETY FENCE | --- ROADSIDE DITCH | --- SOIL TYPE   | --- TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION |                |                    |                    |                                 |  |             |                  |
| -X-X- FENCE       | -E- UNDERGROUND ELECTRIC | --- AREA OF NO DISTURBANCE | --- PROPOSED TEMPORARY R.O.W. | --- STREAM CROSSING      | --- USFWS STREAM CROSSING WITH ENHANCED CONTROLS | --- SLOPE DIRECTION     | --- CONSTRUCTION ENTRANCE WITH DITCH | --- CULVERT AS NEEDED      | --- CULVERT/WATERBAR    | --- PROPERTY LINE  | --- STORM SEWER | --- UNDERGROUND ELECTRIC                         | --- WATER LINE | --- SANITARY SEWER | --- EDGE OF GRAVEL | --- PROPOSED PERMANENT EASEMENT | --- PROPOSED GAS PIPELINE (NO GROUND SURVEY) | --- WETLAND | --- UTILITY POLE |

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

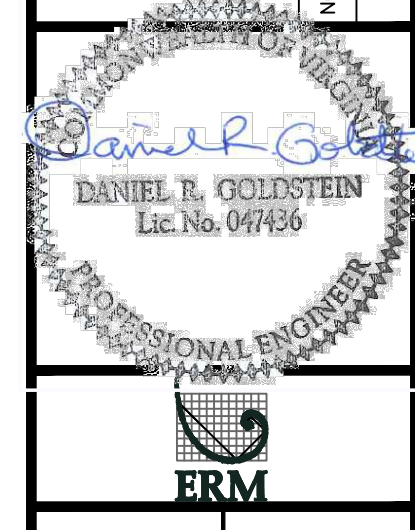
NOTES:

- 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 | CHKD. | APPROV. | DESCRIPTION |
|-----|------|-------|---------|-------------|
|     |      |       |         |             |



CONSTRUCTION ALIGNMENT STA 1404+00 TO 1400+00  
SOUTHAMPTON COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 3/30/17  
DRAWN: JMS  
CHECKED: DLH  
APPROVED: NET

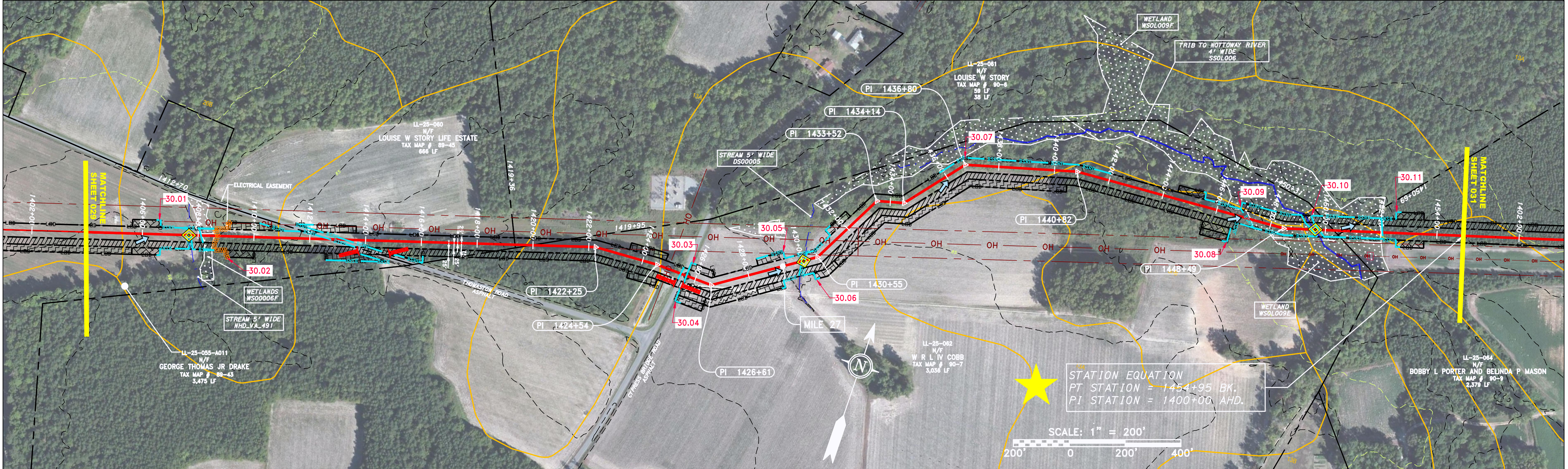


SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
CANONSBURG, PA 15317  
724-873-3545

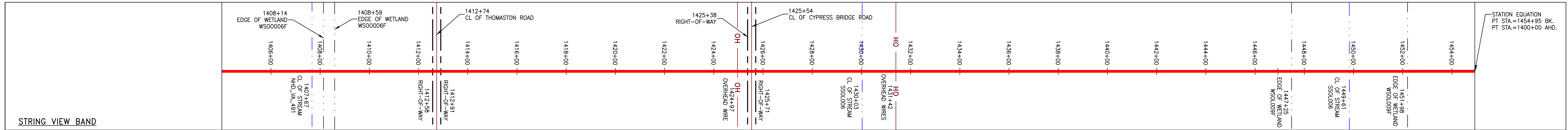


300 BUSINESS CENTER DRIVE  
PITTSBURGH, PA 15205  
412-788-2433

|                      |              |          |
|----------------------|--------------|----------|
| PROJECT NO./DASH NO. | 140468       |          |
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| GROUP ID             | DRAWING NO.  | D / E030 |
| 030                  | OF 84        |          |

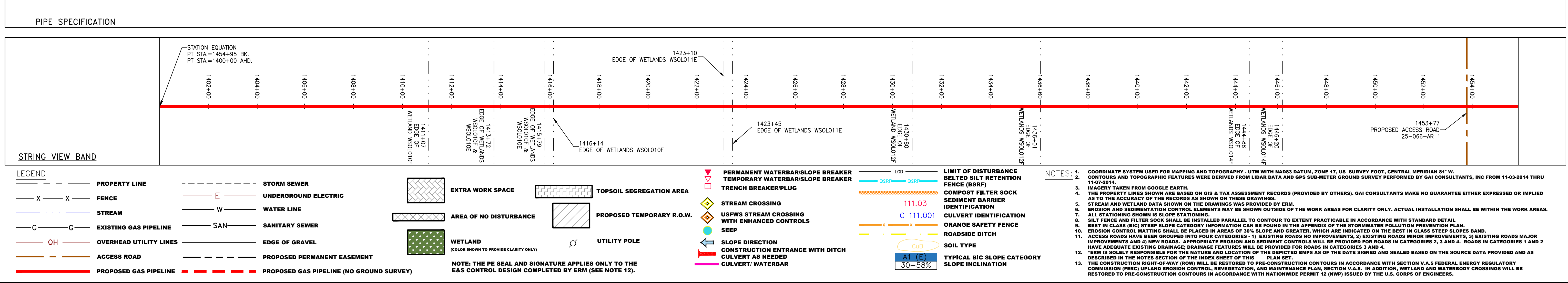
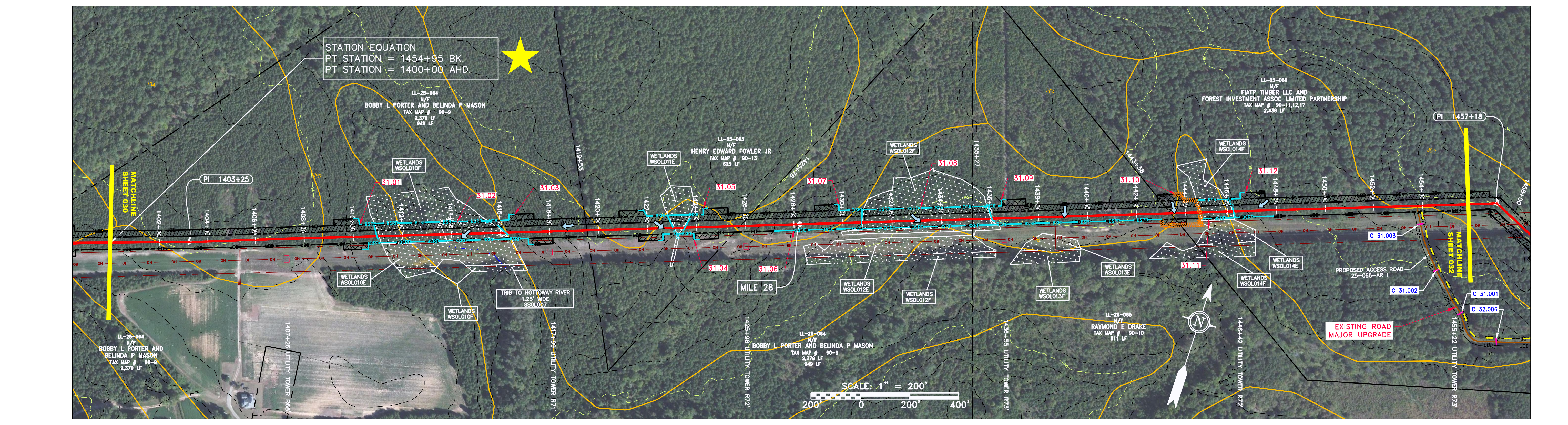
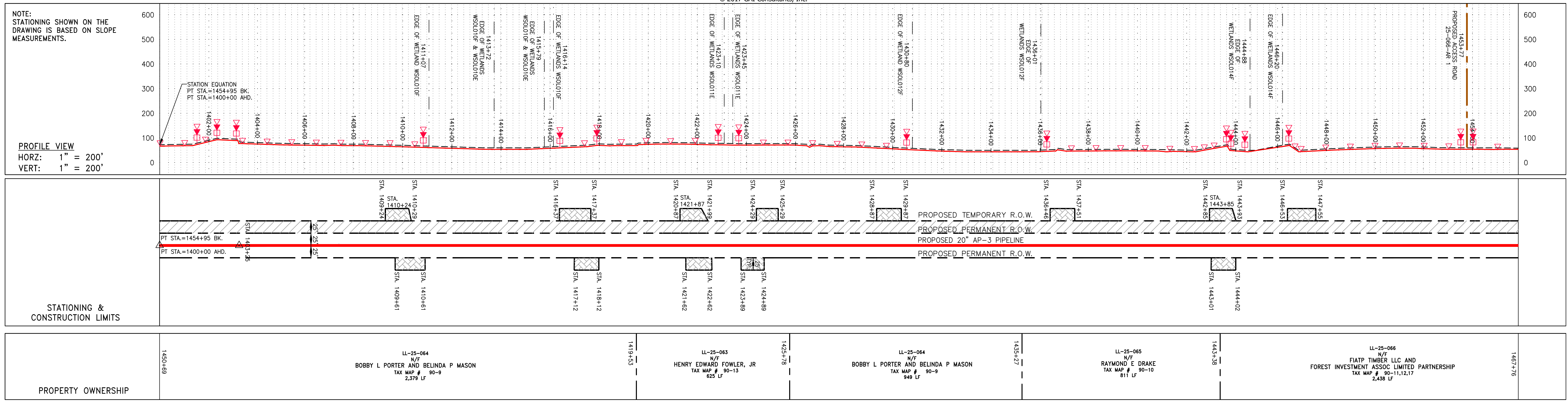


PIPE SPECIFICATION



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| <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>-A- ACCESS ROAD</li> <li>-E- STORM SEWER</li> <li>-W- UNDERGROUND ELECTRIC</li> <li>-G- WATER LINE</li> <li>-S- SANITARY SEWER</li> <li>-W- EDGE OF GRAVEL</li> <li>-E- PROPOSED PERMANENT EASEMENT</li> <li>-G- 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> <p>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</p> | <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>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>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 BIC SLOPE CATEGORY</li> <li>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. 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>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) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</li> <li>EROSION CONTROL MATINGS SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND.</li> <li>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>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 THE 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, VEGETATION, AND MAINTENANCE PLAN, SECTION V.5.5. 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 | BY | CHKD. | APPROV. | DESCRIPTION |
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CONSTRUCTION ALIGNMENT STA 1400+00 TO 1456+00  
SOUTHAMPTON COUNTY, VIRGINIA

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

gai consultants

SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
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724-673-3545

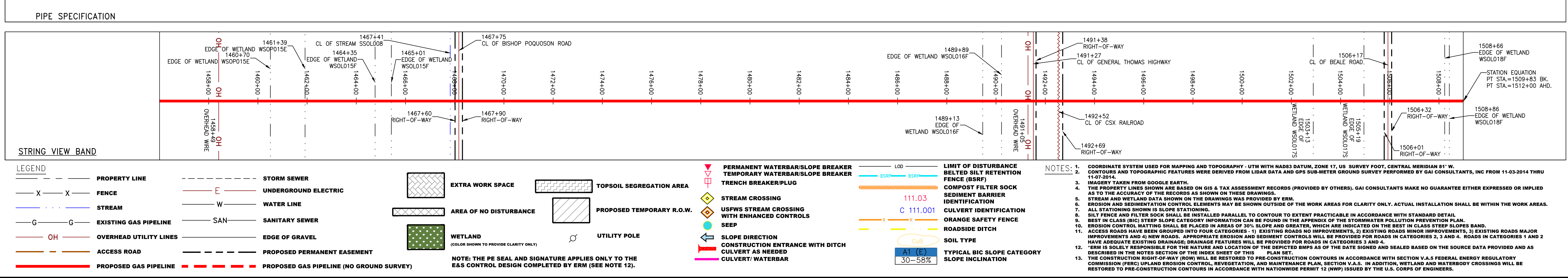
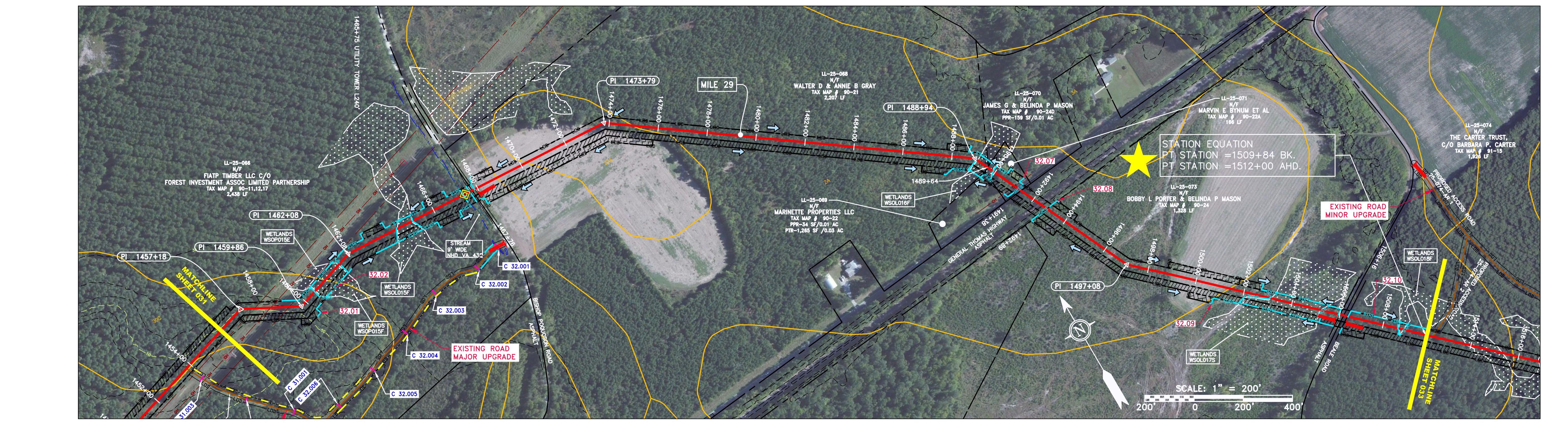
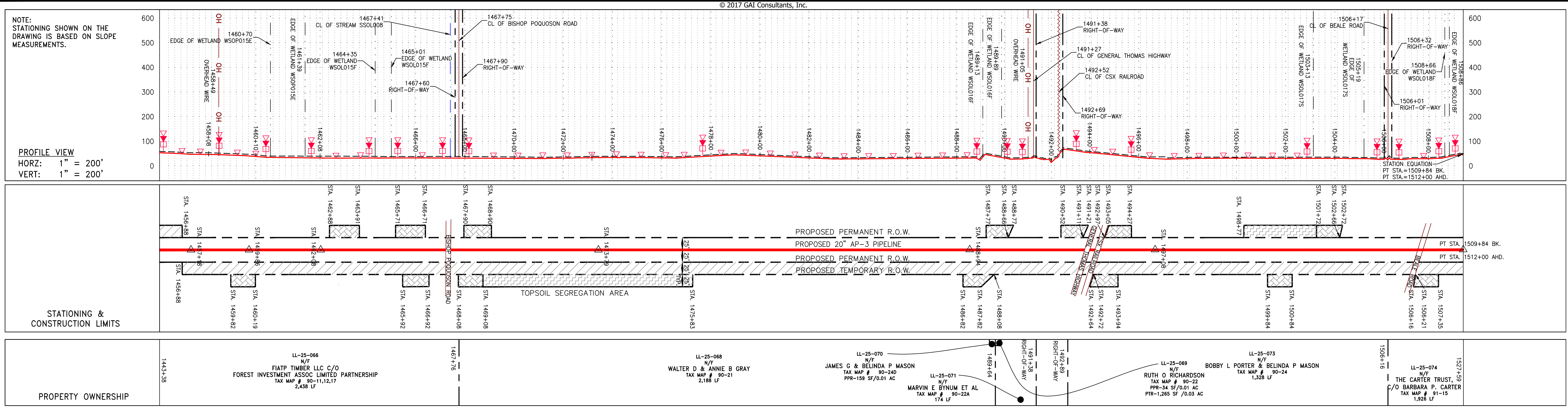
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**Atlantic Coast Pipeline, LLC**  
 6000 TOWN CENTER BLVD.  
 CANONSBURG, PA 15317  
 724-673-3545

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

SCALE: AS SHOWN  
 DATE: 4/21/17  
 DRAWN: JMS  
 CHECKED: DLH  
 APPROVED: NET

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PROJECT NO./DASH NO. 140468  
 TASK NO. 005 SUB TASK NO. 00  
 GROUP ID D DRAWING NO. E032  
 032 OF 84