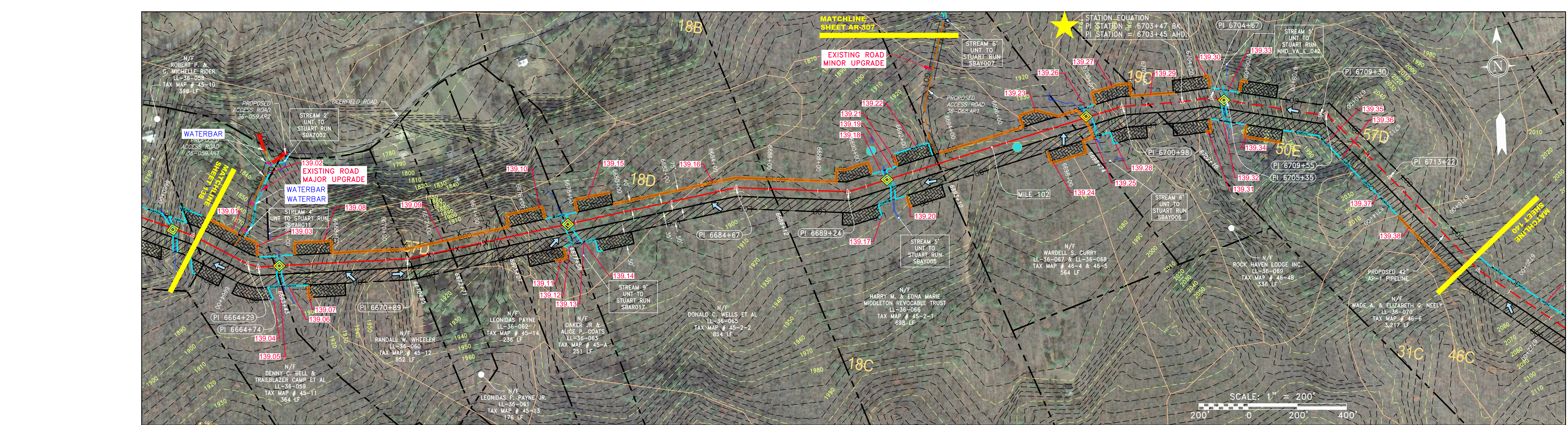
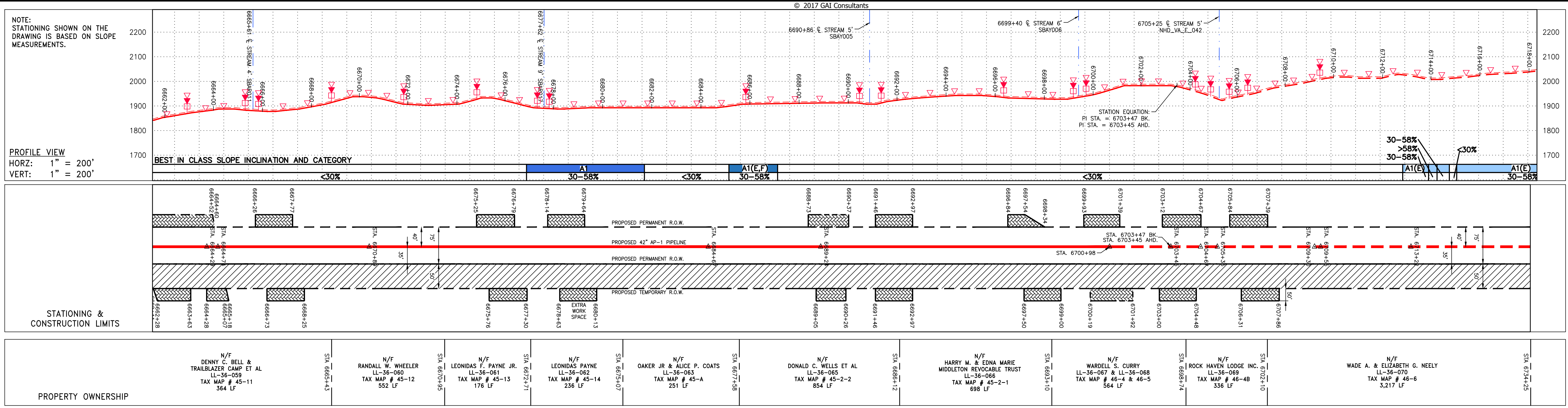


G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG - ALIGNMENT SHEETS\C140468-00-000-E-E139-E143.DWG



NOT TO SCALE  
PIPE SPECIFICATION

**PIPE LEGEND**

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
D	42" x 0.600" WT-X70 DSAW, 6" CC
E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

**STRING VIEW BAND**

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

**LEGEND**

---	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	---	SEEP
---	SLOPE DIRECTION	---	CONSTRUCTION ENTRANCE WITH DITCH
---	CULVERT AS NEEDED	---	CULVERT WATERBAR

**LEGEND**

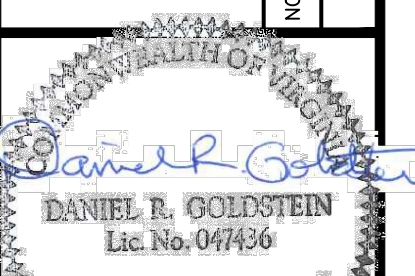

---	LIMIT OF DISTURBANCE	---	BELTED SILT RETENTION FENCE (BSRF)
---	COMPOST FILTER SOCK	---	SEDIMENT IDENTIFICATION
---	CULVERT IDENTIFICATION	---	ORANGE SAFETY FENCE
---	ROADSIDE DITCH	---	SOIL TYPE
---	TYPICAL BIC SLOPE CATEGORY	---	SLOPE INCLINATION

**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.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS MINOR 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 WILL BE PROVIDED WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
- ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE NOTES SECTION OF THE INDEX SHEET OF THIS PLAN SET.
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**REVISIONS**

NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

  
**DANIEL L. GOLDSTEIN**  
 Lic. No. 04746  


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

SCALE: AS SHOWN  
 DATE: 4/26/17  
 DRAWN: CJF  
 CHECKED: DLH  
 APPROVED: NET

  
 SOUTHPOINTE OFFICE  
 6000 TOWN CENTER BLVD.  
 SUITE 300 EAST  
 CANONSBURG, PA 15317  
 724-873-3545

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

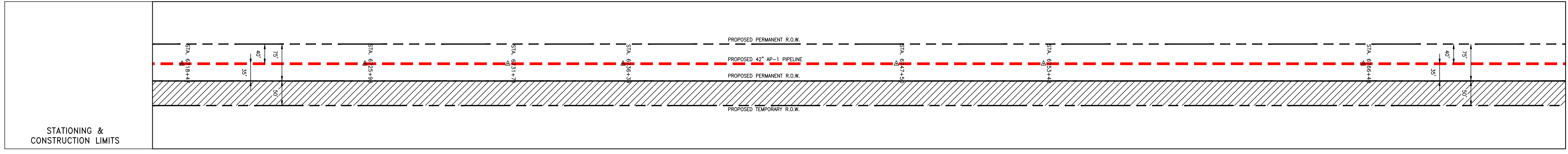
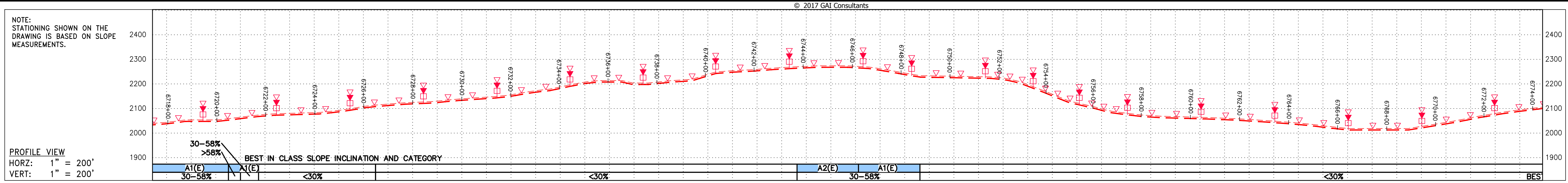
PROJECT NO./DASH NO.  
**140468**

TASK NO.	SUB TASK NO.
005	00

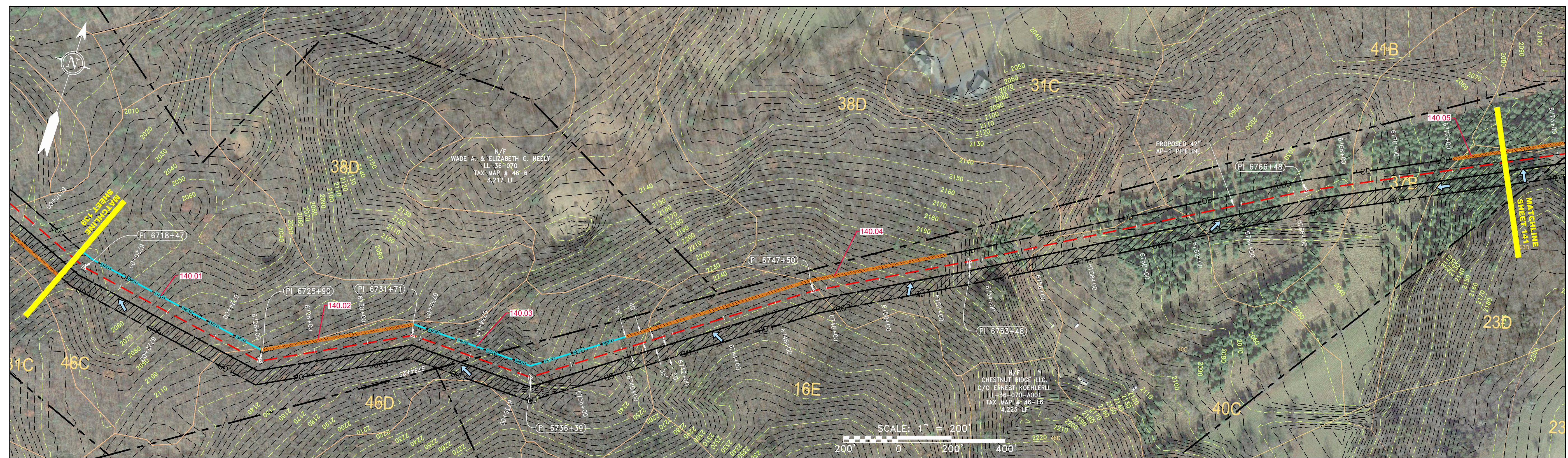
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**D E139**

**139 OF 344**

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG\...\_ALIGNMENT SHEETS\C140468-00-000-00-E-139-E-143.DWG



PROPERTY OWNERSHIP	
<p>N/F WADE A. &amp; ELIZABETH G. NEELY LL-35-070 TAX MAP # 46-6 3,217 LF</p> <p>SIA 6734+25</p>	<p>N/F CHESTNUT RIDGE LLC, C/O ERNEST KOEHLER LL-35-070-A001 TAX MAP # 46-16 4,223 LF</p> <p>SIA 6776+48</p>



NOT TO SCALE  
PIPE SPECIFICATION

**PIPE LEGEND**

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
D	42" x 0.600" WT-X70 DSAW, 6" CC
E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

**STRING VIEW BAND**

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

**LEGEND**

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

**NOTES:**

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REVISIONS	
NO.	DESCRIPTION

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 6718+00 TO 6774+00  
BATH COUNTY, VIRGINIA

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

ERM

SCALE:	AS SHOWN
DATE:	4/26/17
DRAWN:	CJF
CHECKED:	DLH
APPROVED:	NET

gai consultants

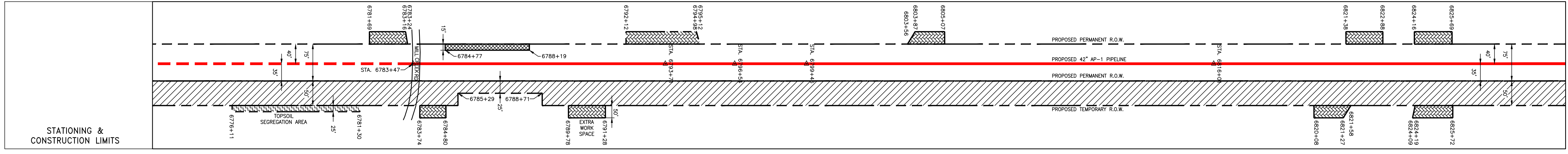
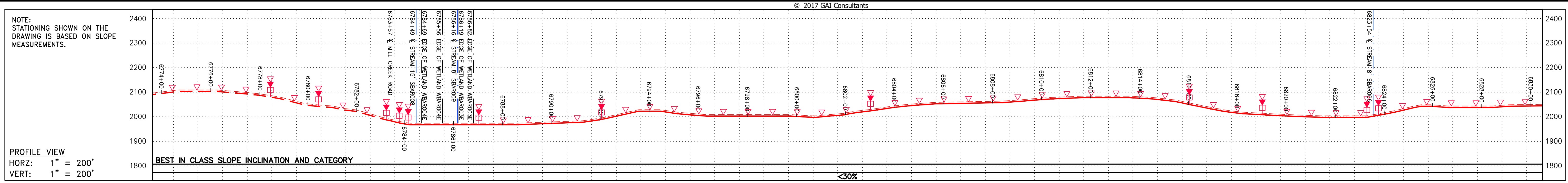
SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
SUITE 300 EAST  
CANONSBURG, PA 15317  
724-873-3545

mbe  
monahon basin  
engineers

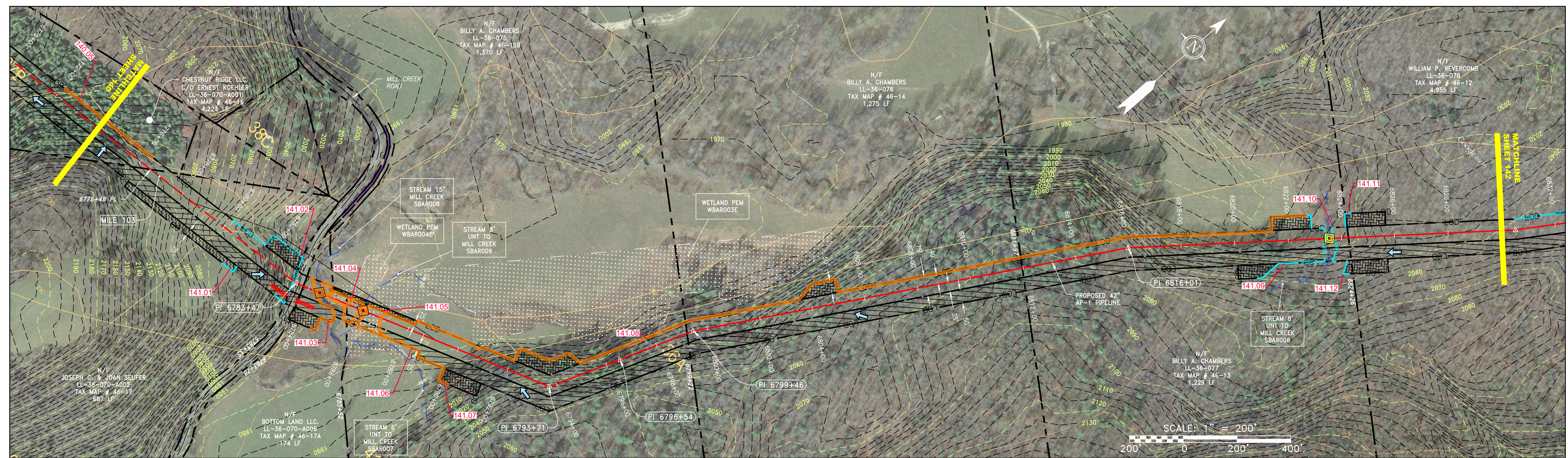
300 BUSINESS CENTER DRIVE  
PITTSBURGH, PA 15205  
412-788-2433

PROJECT NO./DASH NO.	140468	
TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E140
140 OF 344		

GAICONCONSULTANTS.LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG\\_ALIGNMENT SHEETS\C140468-00-000-00-E-139-E143.DWG

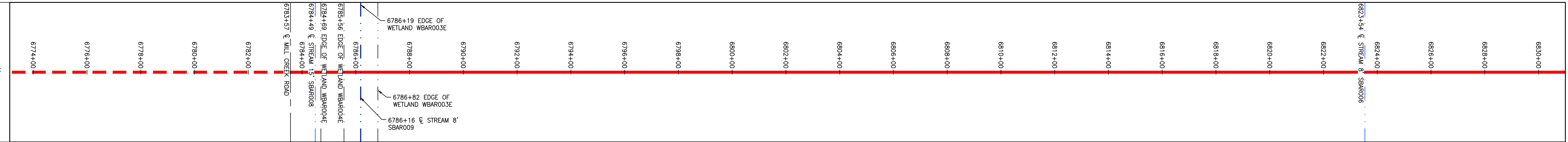


PROPERTY OWNERSHIP table listing landowners such as CHESTNUT RIDGE LLC, JOSEPH C. & JOAN SEUFER, BOTTOM LAND LLC, BILLY A. CHAMBERS, and WILLIAM P. REVERCOMB with their respective tax maps and acreages.



NOT TO SCALE  
PIPE SPECIFICATION

PIPE LEGEND table defining pipe types: A (42" x 0.600" WT-X70 DSAW, FBE), B (42" x 0.720" WT-X70 DSAW, FBE), C (42" x 0.864" WT-X70 DSAW, FBE), D (42" x 0.600" WT-X70 DSAW, 6" CC), E (42" x 0.720" WT-X70 DSAW, 5 1/2" CC), F (42" x 0.864" WT-X70 DSAW, 4 1/2" CC), G (42" x 0.864" WT-X70 DSAW, 40 MIL FC).



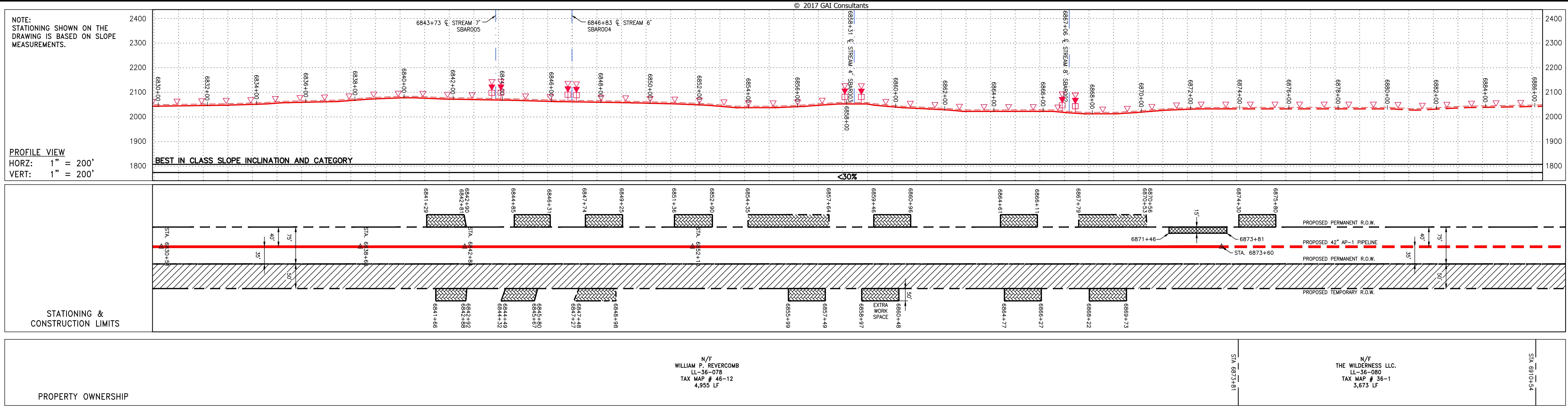
LEGEND and NOTES section. Includes symbols for property lines, fences, streams, gas pipelines, storm sewers, water lines, wetlands, and various construction features like culverts, waterbars, and slope breakers. Includes a 'NOTES' section with 13 numbered items regarding survey methods, property lines, and construction requirements.

REVISIONS table with columns for NO., DATE, and DESCRIPTION. Includes a professional seal for Daniel L. Goldstein, License No. 047430, and the ERM logo.

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 6774+00 TO 6830+00  
BATH COUNTY, VIRGINIA  
ATLANTIC COAST PIPELINE, LLC  
C/O DOMINION TRANSMISSION, INC.  
925 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330

Project information including SCALE: AS SHOWN, DATE: 4/26/17, DRAWN: CJF, CHECKED: DLH, APPROVED: NET. Includes logos for gai consultants and mbe monaloh basin engineers. Project No./Dash No. 140468, Task No. 005, Sub Task No. 00, Group ID D, Drawing No. E141, 141 OF 344.

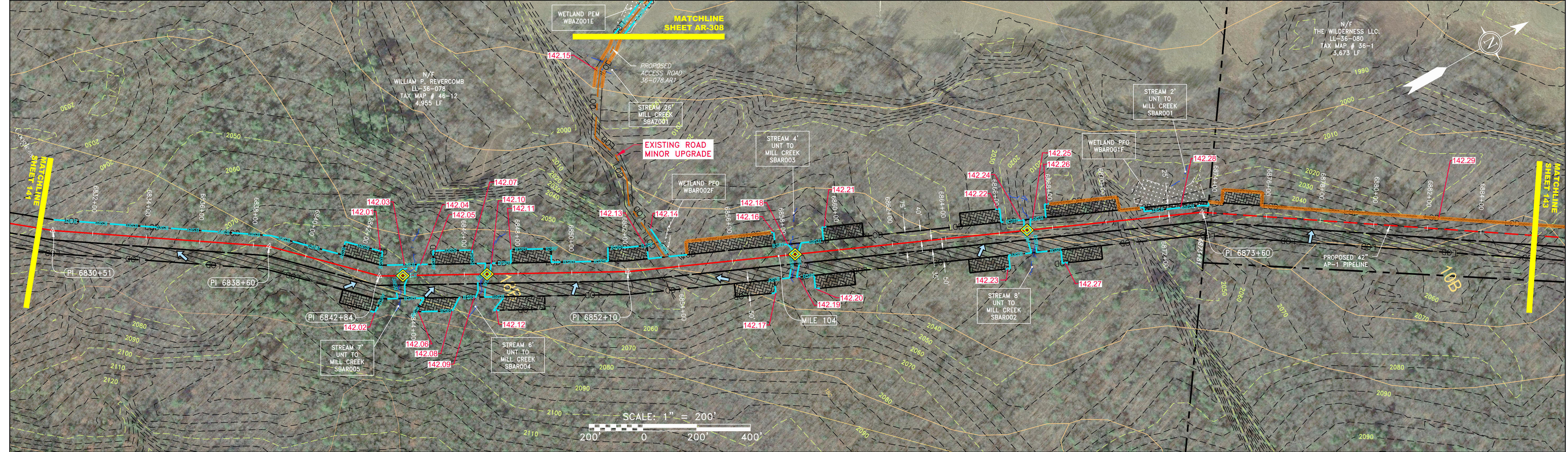
G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG\PREVIOUS FERC FILING DWGS\\_ALIGNMENT SHEETS\C140468-00-000-00-E-139-E-143.DWG



**PROPERTY OWNERSHIP**

N/F WILLIAM P. REVERCOMB  
LL-36-078  
TAX MAP # 46-12  
4,955 LF

N/F THE WILDERNESS LLC.  
LL-36-080  
TAX MAP # 36-1  
3,673 LF



NOT TO SCALE  
PIPE SPECIFICATION

**PIPE LEGEND**

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
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F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC

**STRING VIEW BAND**

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

**LEGEND**

---	PERMANENT WATERBAR/SLOPE BREAKER	---	LIMIT OF DISTURBANCE
---	TEMPORARY WATERBAR/SLOPE BREAKER	---	BELTED SILT RETENTION FENCE (BSRF)
---	TRENCH BREAKER/PLUG	---	COMPOST FILTER SOCK
---	EXTRA WORK SPACE	---	SEDIMENT IDENTIFICATION
---	AREA OF NO DISTURBANCE	---	CULVERT IDENTIFICATION
---	TOPSOIL SEGREGATION AREA	---	ORANGE SAFETY FENCE
---	PROPOSED TEMPORARY R.O.W.	---	ROADSIDE DITCH
---	UTILITY POLE	---	SOIL TYPE
---	WETLAND	---	TYPICAL BIC SLOPE CATEGORY
---	WETLAND PERMIT	---	SLOPE INCLINATION

**NOTES:**

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**NOTES:**

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NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 6830+00 TO 6886+00  
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 4/26/17  
DRAWN: CJF  
CHECKED: DLH  
APPROVED: NET

**gai consultants**

SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
SUITE 300 EAST  
CANONSBURG, PA 15317  
724-873-3545

**mbe monaloh basin engineers**

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

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

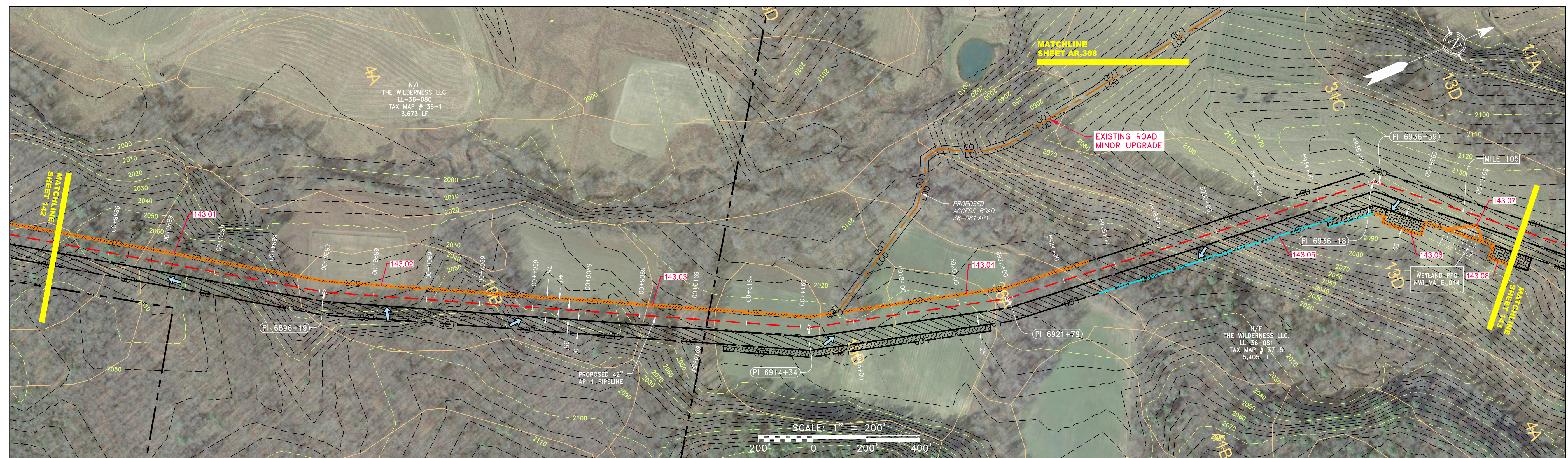
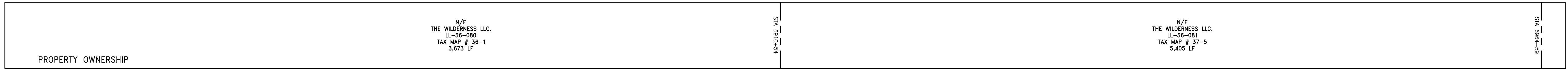
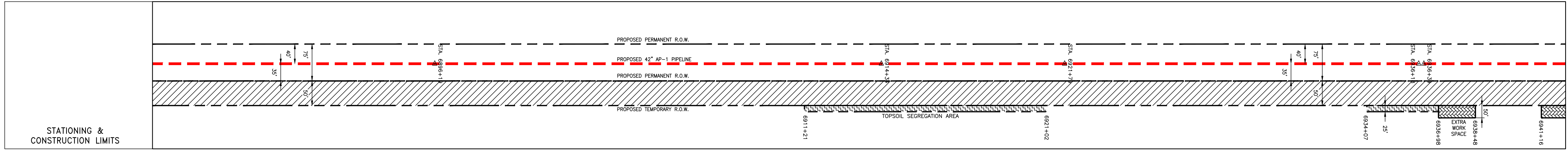
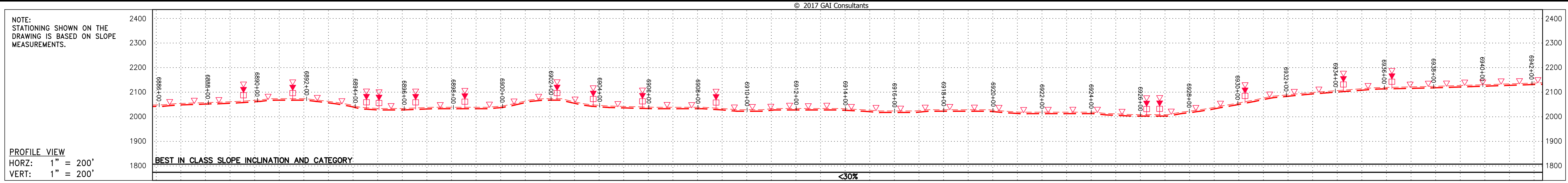
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**005 00**

GROUP ID DRAWING NO.  
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142 OF 344

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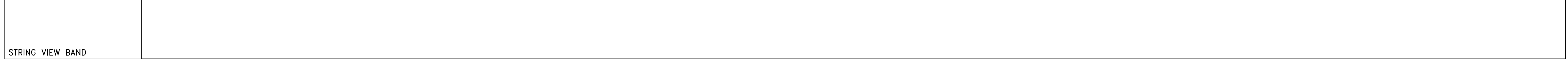
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NOT TO SCALE  
PIPE SPECIFICATION

**PIPE LEGEND**

A	42" x 0.600" WT-X70 DSAW, FBE
B	42" x 0.720" WT-X70 DSAW, FBE
C	42" x 0.864" WT-X70 DSAW, FBE
D	42" x 0.600" WT-X70 DSAW, 6" CC
E	42" x 0.720" WT-X70 DSAW, 5 1/2" CC
F	42" x 0.864" WT-X70 DSAW, 4 1/2" CC
G	42" x 0.864" WT-X70 DSAW, 40 MIL PC



**LEGEND**

---	PROPERTY LINE	---	STORM SEWER	---	EXTRA WORK SPACE	---	TOPSOIL SEGREGATION AREA
X-X	FENCE	E	UNDERGROUND ELECTRIC	---	AREA OF NO DISTURBANCE	---	PROPOSED TEMPORARY R.O.W.
---	STREAM	W	WATER LINE	---	WETLAND	---	UTILITY POLE
-G-	EXISTING GAS PIPELINE	SAN	SANITARY SEWER	---	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	---	
OH	OVERHEAD UTILITY LINES	---	EDGE OF GRAVEL	---		---	
---	ACCESS ROAD	---	PROPOSED PERMANENT EASEMENT	---		---	
---	PROPOSED GAS PIPELINE	---	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	---		---	

---	PERMANENT WATERBAR/SLOPE BREAKER	---	LIMIT OF DISTURBANCE
---	TEMPORARY WATERBAR/SLOPE BREAKER	---	BELTED SILT RETENTION FENCE (BSRF)
---	TRENCH BREAKER/PLUG	---	COMPOST FILTER SOCK
---	STREAM CROSSING	---	SEDIMENT BARRIER IDENTIFICATION
---	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	---	CULVERT IDENTIFICATION
---	SEEP	---	ORANGE SAFETY FENCE
---	SLOPE DIRECTION	---	ROADSIDE DITCH
---	CONSTRUCTION ENTRANCE WITH DITCH	---	SOIL TYPE
---	CULVERT AS NEEDED	---	TYPICAL BIC SLOPE CATEGORY
---	CULVERT WATERBAR	---	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.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- ALL STATIONING SHOWN IS SLOPE STATIONING.
- SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.
- BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
- EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES: 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 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, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.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.	DESCRIPTION

**ERM**

*Daniel L. Goldstein*  
DANIEL L. GOLDSTEIN  
Lic. No. 047430

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 6886+00 TO 6942+00  
BATH COUNTY, VIRGINIA

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

SCALE:	AS SHOWN
DATE:	4/26/17
DRAWN:	CJF
CHECKED:	DLH
APPROVED:	NET

**gai consultants**

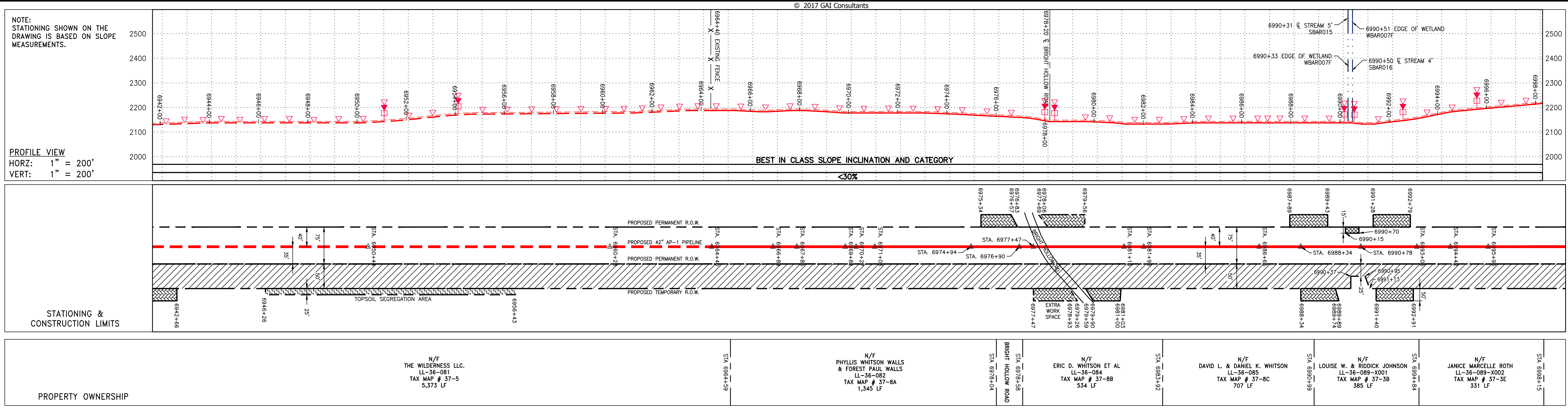
SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
SUITE 300 EAST  
CANONSBURG, PA 15317  
724-873-3545

**mbe**  
monahon basin engineers

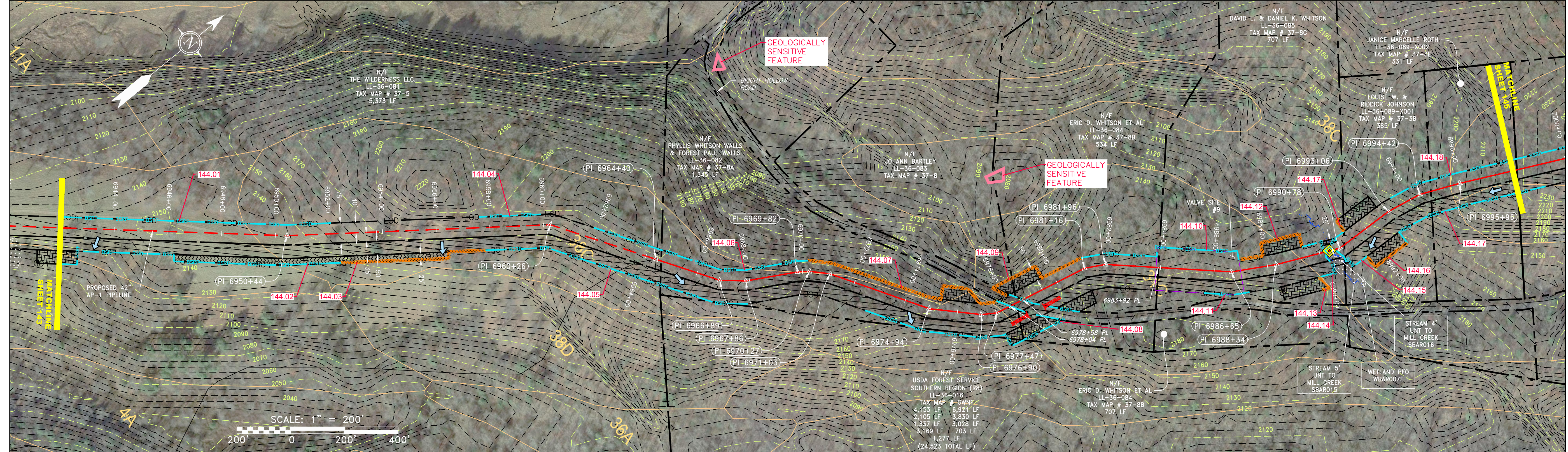
300 BUSINESS CENTER DRIVE  
PITTSBURGH, PA 15205  
412-788-2433

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

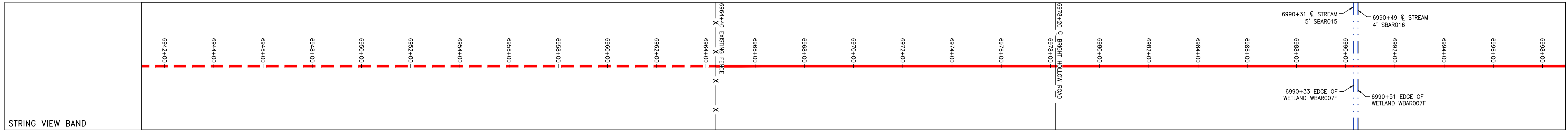
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PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
N/F THE WILDERNESS LLC. LL-36-081 TAX MAP # 37-5 5,373 LF	STA. 6984+00 TO STA. 6984+59
N/F PHYLLIS WHITSON WALLS & FOREST PAUL WALLS LL-36-082 TAX MAP # 37-8A 1,345 LF	STA. 6984+59 TO STA. 6979+04
N/F ERIC D. WHITSON ET AL LL-36-084 TAX MAP # 37-8B 534 LF	STA. 6979+04 TO STA. 6983+92
N/F DAVID L. & DANIEL K. WHITSON LL-36-085 TAX MAP # 37-8C 707 LF	STA. 6983+92 TO STA. 6990+00
N/F LOUISE W. & RIDDICK JOHNSON LL-36-089-X001 TAX MAP # 37-3B 385 LF	STA. 6990+00 TO STA. 6994+88
N/F JANICE MARCELLE ROTH LL-36-089-X002 TAX MAP # 37-3E 331 LF	STA. 6994+88 TO STA. 6998+00



NOT TO SCALE  
PIPE SPECIFICATION



**LEGEND**

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	WATER LINE	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER	<b>NOTES:</b> THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	TEMPORARY WATERBAR/SLOPE BREAKER
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	STREAM CROSSING WITH ENHANCED CONTROLS	USFS STREAM CROSSING
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	SLOPE DIRECTION	CONSTRUCTION ENTRANCE WITH DITCH
		CULVERT AS NEEDED	CULVERT WATERBAR

**NOTES:**

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NO.	DATE	BY	CHKD.	APPROV.	DESCRIPTION

**Daniel L. Goldstein**  
Lic. No. 067436

**ERM**

**42" AP-1 PIPELINE**  
CONSTRUCTION ALIGNMENT STA 6942+00 TO 6998+00  
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 4/26/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET

**gai consultants**

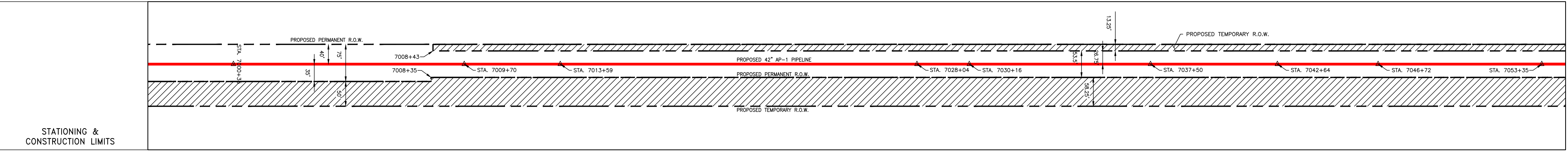
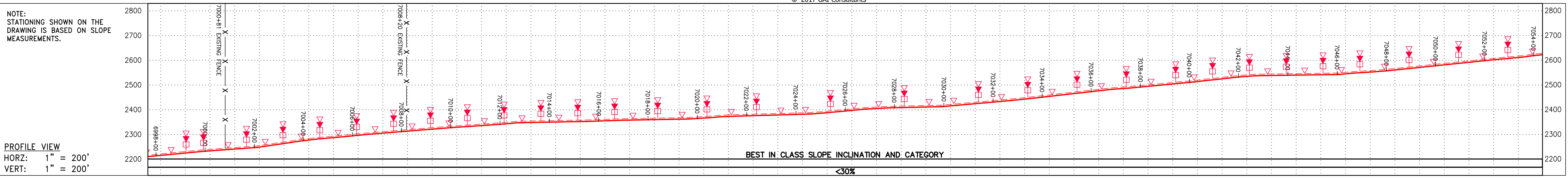
SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
SUITE 300 EAST  
CANONSBURG, PA 15317  
724-873-3545

**mbe**  
monaloh basin  
engineers

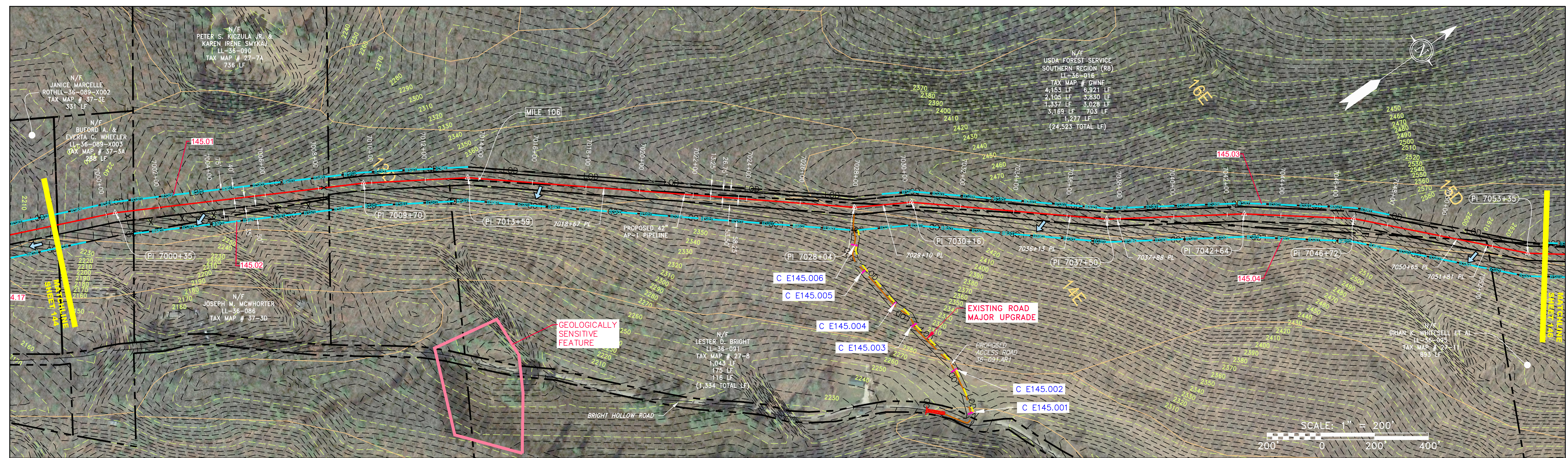
300 BUSINESS CENTER DRIVE  
PITTSBURGH, PA 15205  
412-788-2433

PROJECT NO./DASH NO.	<b>140468</b>	
TASK NO.	005	SUB TASK NO. 00
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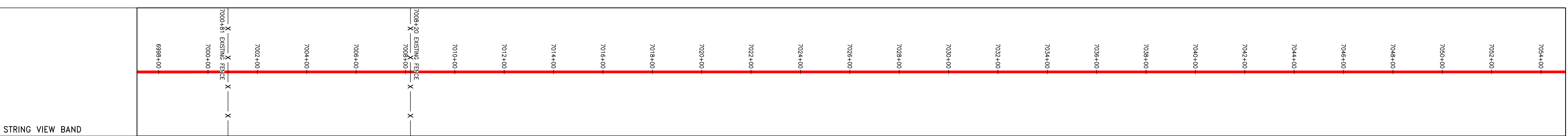
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PROPERTY OWNERSHIP
7008+35 - 7009+00: N/F JANICE MARCELLE ROTH, LL-36-089-X002, TAX MAP # 37-3E, 331 LF
7009+00 - 7010+00: N/F BUFORD A. & EVERTIA C. WHEELER, LL-36-089-X003, TAX MAP # 37-3A, 288 LF
7010+00 - 7011+00: N/F PETER S. KICZULA JR. & KAREN IRENE SMYKAJ, LL-36-090, TAX MAP # 27-7A, 736 LF
7011+00 - 7012+00: N/F USDA FOREST SERVICE SOUTHERN REGION (R8), LL-36-016, TAX MAP # GWNF, 1,028 LF
7012+00 - 7013+00: N/F LESTER D. BRIGHT, LL-36-091, TAX MAP # 27-8, 1,043 LF
7013+00 - 7014+00: N/F USDA FOREST SERVICE SOUTHERN REGION (R8), LL-36-016, TAX MAP # GWNF, 703 LF
7014+00 - 7015+00: N/F LESTER D. BRIGHT, LL-36-091, TAX MAP # 27-8, 175 LF
7015+00 - 7016+00: N/F USDA FOREST SERVICE SOUTHERN REGION (R8), LL-36-016, TAX MAP # GWNF, 1,277 LF
7016+00 - 7017+00: N/F LESTER D. BRIGHT, LL-36-091, TAX MAP # 27-8, 116 LF
7017+00 - 7018+00: N/F BRIAN K. WHITESELL ET AL, LL-36-095, TAX MAP # 27-11, 893 LF
7018+00 - 7019+00: N/F BRIAN K. WHITESELL ET AL, LL-36-095, TAX MAP # 27-11, 893 LF



NOT TO SCALE  
PIPE SPECIFICATION



**LEGEND**

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	LIMIT OF DISTURBANCE	TEMPORARY WATERBAR/SLOPE BREAKER	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	
FENCE	UNDERGROUD ELECTRIC	AREA OF NO DISTURBANCE	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	STREAM CROSSING	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	SEEP	SLOPE DIRECTION	CONSTRUCTION ENTRANCE WITH DITCH	CULVERT AS NEEDED	CULVERT WATERBAR	UTILITY POLE	TOPSOIL SEGREGATION AREA	PROPOSED TEMPORARY R.O.W.
EXISTING GAS PIPELINE	SANITARY SEWER	EDGE OF GRAVEL	PROPOSED PERMANENT EASEMENT	PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).							

**NOTES:**

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- EROSION CONTROL STEPPING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.
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NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

**REVISIONS**

**ERM**

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 6998+00 TO 7054+00  
BATH COUNTY, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 4/26/17  
DRAWN: CJF  
CHECKED: DLH  
APPROVED: NET

**gai consultants**

SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
SUITE 300 EAST  
CANONSBURG, PA 15317  
724-873-3545

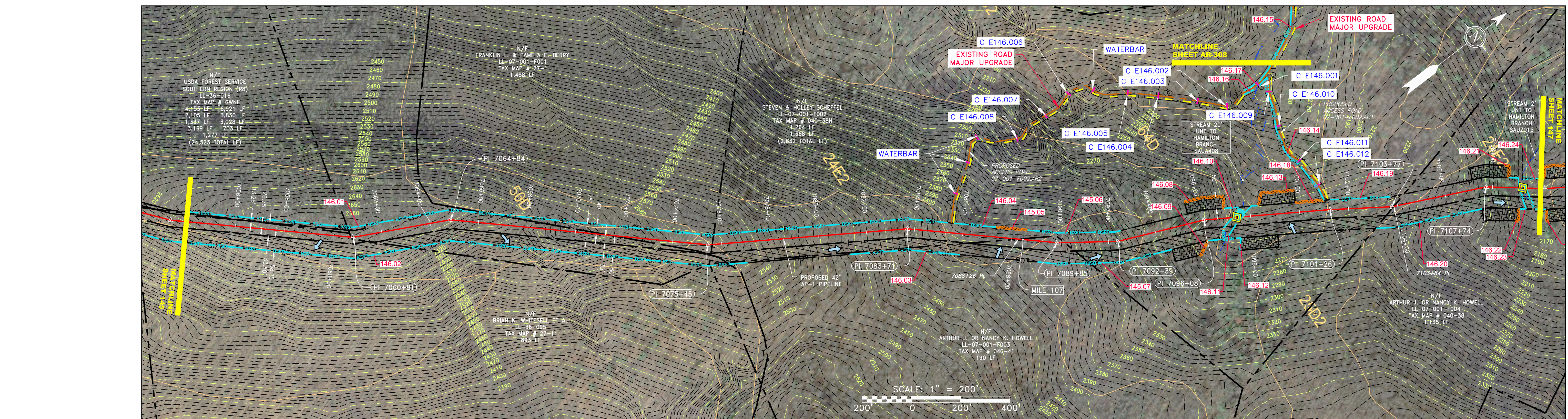
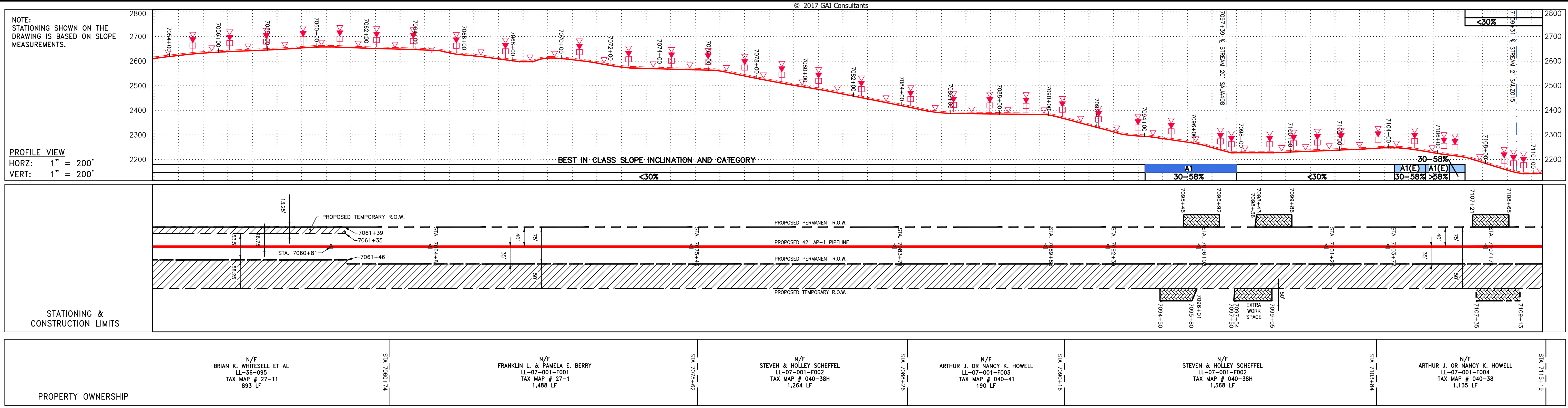
**mbe monaloh basin engineers**

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

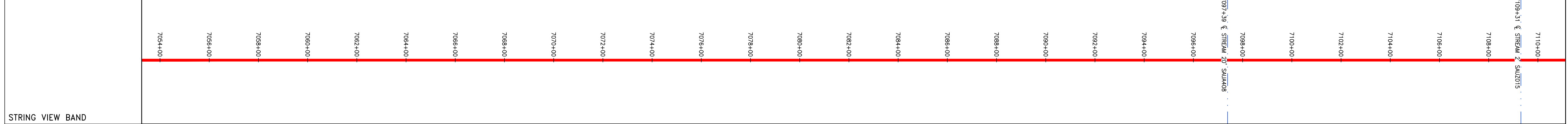
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TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E145
145	OF	344

5/19/2017 11:10 AM

G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG - ALIGNMENT SHEETS\C140468-00-E-144-E148.DWG



NOT TO SCALE  
PIPE SPECIFICATION



**LEGEND**

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	LIMIT OF DISTURBANCE
FENCE	UNDERGROUND ELECTRIC	AREA OF NO DISTURBANCE	BELTED SILT RETENTION FENCE (BSRF)
STREAM	WATER LINE	TOPSOIL SEGREGATION AREA	COMPOST FILTER SOCK
EXISTING GAS PIPELINE	SANITARY SEWER	PROPOSED TEMPORARY R.O.W.	SEDIMENT BARRIER IDENTIFICATION
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	UTILITY POLE	CULVERT IDENTIFICATION
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	ORANGE SAFETY FENCE
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	<b>NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&amp;S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).</b>	ROADSIDE DITCH
			SLOPE DIRECTION
			CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED
			CULVERT WATERBAR

**NOTES:**

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 11-07-2014.
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**REVISIONS**

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

**ERM**

42" AP-1 PIPELINE  
CONSTRUCTION ALIGNMENT STA 7054+00 TO 7110+00  
BATH & AUGUSTA COUNTIES, VIRGINIA

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

SCALE: AS SHOWN  
DATE: 4/26/17  
DRAWN: CJF  
CHECKED: DLH  
APPROVED: NET

**gai consultants**

SOUTHPOINTE OFFICE  
6000 TOWN CENTER BLVD.  
SUITE 300 EAST  
CANONSBURG, PA 15317  
724-873-3545

**mbe**  
monahon basin engineers

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

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

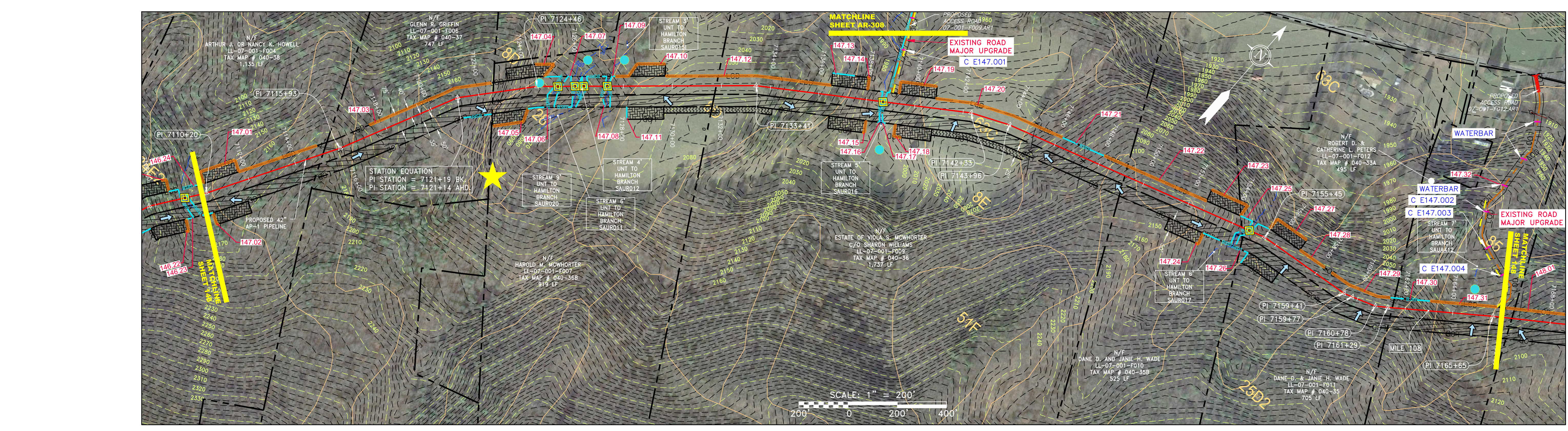
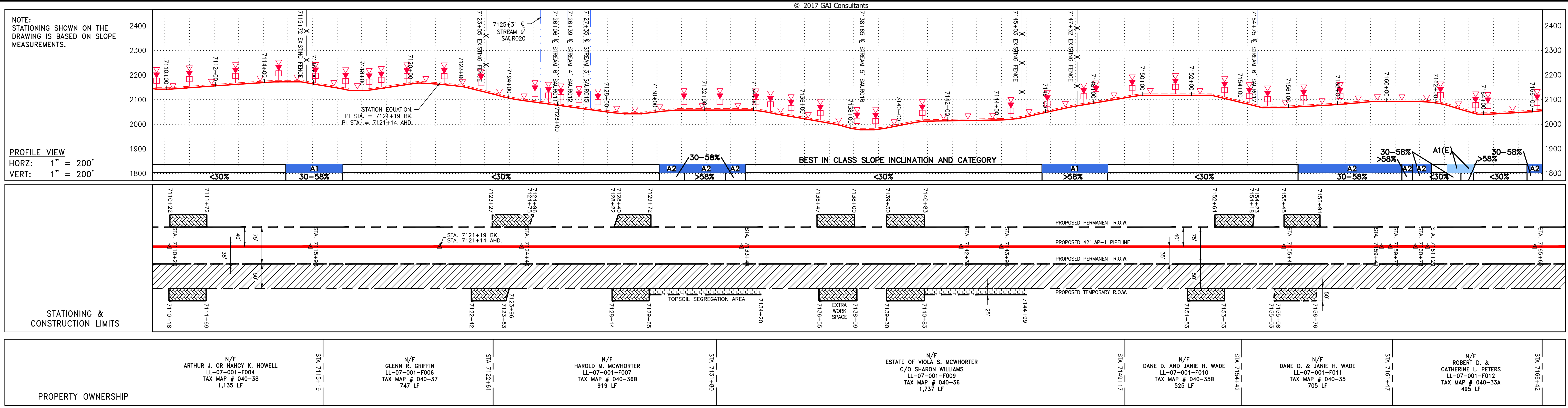
TASK NO.	SUB TASK NO.
005	00

GROUP ID: **D** DRAWING NO.: **E146**

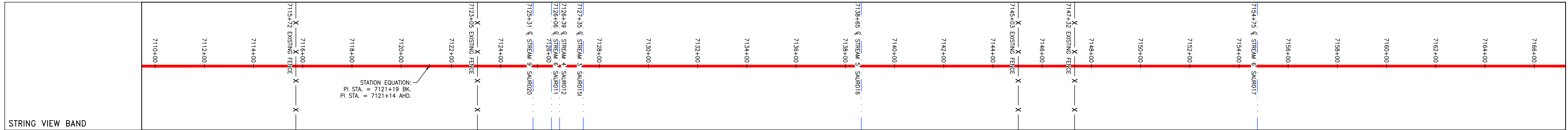
146 OF 344



G:\CONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE.DWG - PREVIOUS FERC FILING DWGS - ALIGNMENT SHEETS\C140468-00-000-00-E-144-E148.DWG

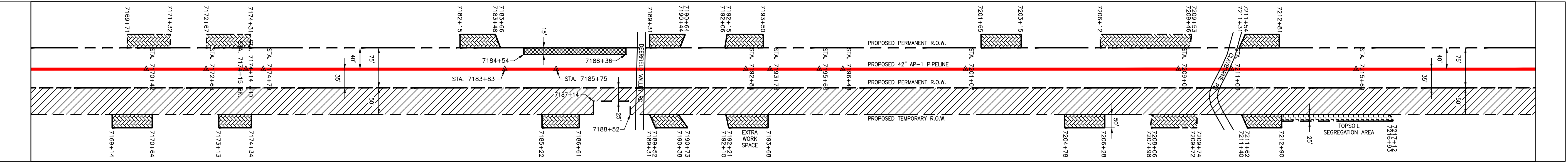
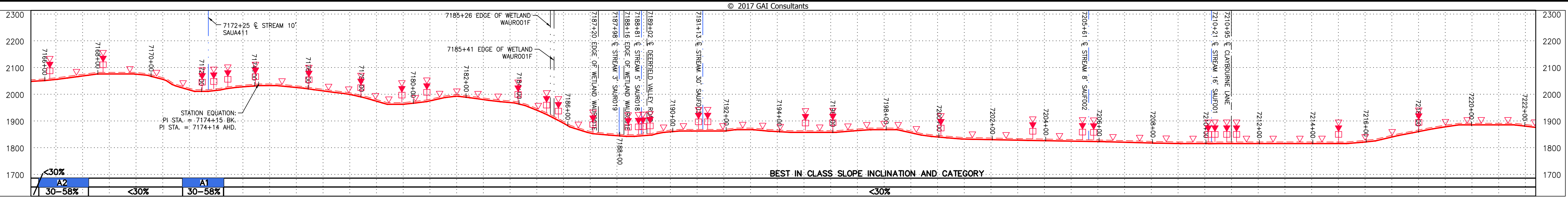


NOT TO SCALE  
PIPE SPECIFICATION

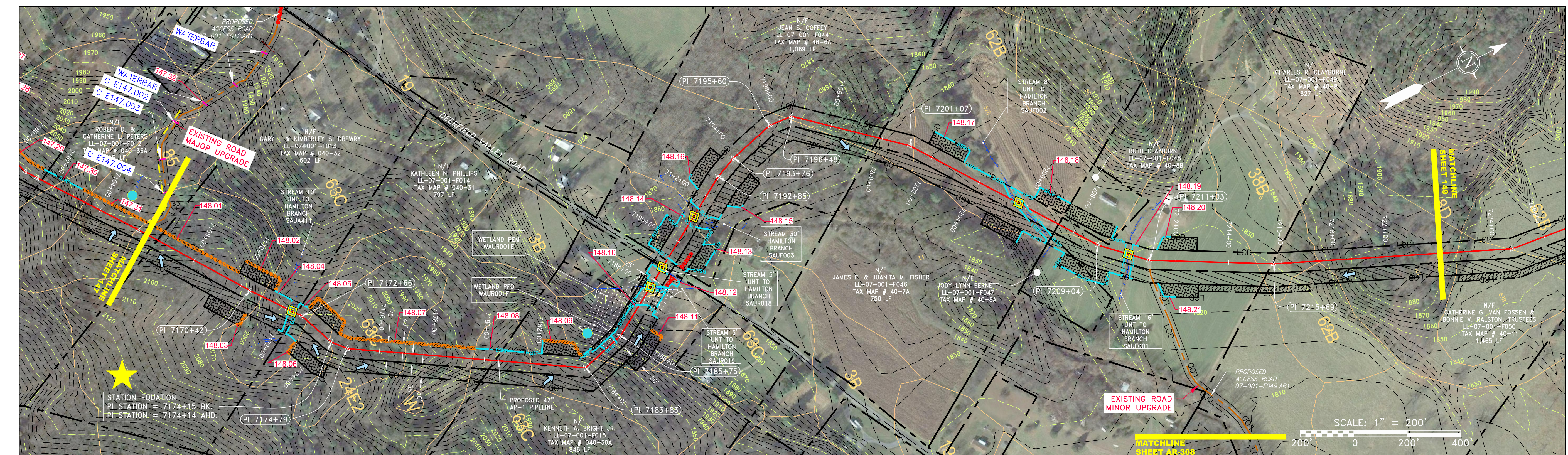


<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>— PROPERTY LINE</li> <li>X X FENCE</li> <li>— STREAM</li> <li>G EXISTING GAS PIPELINE</li> <li>OH OVERHEAD UTILITY LINES</li> <li>— ACCESS ROAD</li> <li>— PROPOSED GAS PIPELINE</li> <li>— PROPOSED GAS PIPELINE (NO GROUND SURVEY)</li> <li>— STORM SEWER</li> <li>— UNDERGROUND ELECTRIC</li> <li>— WATER LINE</li> <li>— SANITARY SEWER</li> <li>— EDGE OF GRAVEL</li> <li>— PROPOSED PERMANENT EASEMENT</li> <li>— PROPOSED PERMANENT EASEMENT</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> <li>PERMANENT WATERBAR/SLOPE BREAKER</li> <li>TEMPORARY WATERBAR/SLOPE BREAKER</li> <li>TRENCH BREAKER/PLUG</li> <li>STREAM CROSSING</li> <li>USFWS STREAM CROSSING WITH ENHANCED CONTROLS</li> <li>SEEP</li> <li>SLOPE DIRECTION</li> <li>CONSTRUCTION ENTRANCE WITH DITCH</li> <li>CULVERT AS NEEDED</li> <li>CULVERT WATERBAR</li> <li>LIMIT OF DISTURBANCE</li> <li>BELTED SILT RETENTION FENCE (BSRF)</li> <li>COMPOST FILTER SOCK</li> <li>SEDIMENT IDENTIFICATION</li> <li>CULVERT IDENTIFICATION</li> <li>ORANGE SAFETY FENCE</li> <li>ROADSIDE DITCH</li> <li>SOIL TYPE</li> <li>TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.</li> <li>3. IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>4. THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.</li> <li>5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>7. ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>9. 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 SEDIMENTATION CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 1 AND 2.</li> <li>10. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMP'S 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>11. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5. FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.</li> </ol>
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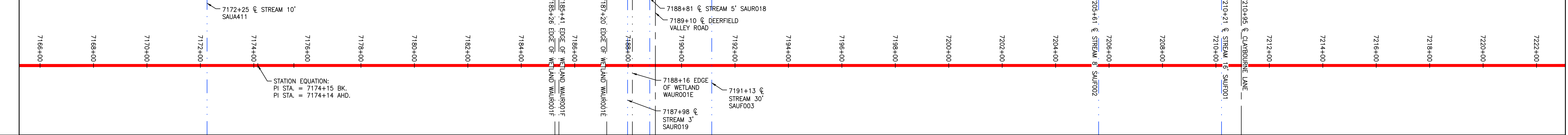
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<p>GROUP ID <b>D</b></p>		<p>DRAWING NO. <b>E147</b></p>											
<p>147 OF 344</p>													



PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
N/F ROBERT D. & CATHERINE L. PETERS LL-07-001-F012 TAX MAP # 040-53A 495 LF	STA 7169+42
GARY L & KIMBERLEY S. DREWRY LL-07-001-F013 TAX MAP # 040-32 602 LF	STA 7172+44
N/F KATHLEEN N. PHILLIPS LL-07-001-F014 TAX MAP # 040-51 797 LF	STA 7180+40
N/F KENNETH A. BRIGHT JR. LL-07-001-F015 TAX MAP # 040-30A 846 LF	STA 7183+83
N/F DEERFIELD VALLEY ROAD	STA 7188+48
N/F JEAN S. COFFEY LL-07-001-F044 TAX MAP # 46-6A 1,069 LF	STA 7193+77
N/F JAMES F. & JUANITA M. FISHER LL-07-001-F046 TAX MAP # 40-7A 750 LF	STA 7201+40
N/F CHARLES R. CLAYBURNE LL-07-001-F048 TAX MAP # 40-8 827 LF	STA 7206+12
N/F CATHERINE G. VAN FOSSEN & BONNIE V. RALSTON, TRUSTEES LL-07-001-F050 TAX MAP # 40-11 1,465 LF	STA 7212+80



NOT TO SCALE  
PIPE SPECIFICATION



<p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>PROPERTY LINE</li> <li>FENCE</li> <li>STREAM</li> <li>EXISTING GAS PIPELINE</li> <li>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> </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>USFS W/ 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 SLOPE INCLINATION</li> </ul>	<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.</li> <li>CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.</li> <li>IMAGERY TAKEN FROM GOOGLE EARTH.</li> <li>THE PROPERTY LINES SHOWN ARE BASED ON GIS &amp; TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.</li> <li>STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</li> <li>EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.</li> <li>ALL STATIONING SHOWN IS SLOPE STATIONING.</li> <li>SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</li> <li>EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND.</li> <li>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 5.6 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND REVEGETATION, AND MAINTENANCE PLAN, SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS.</li> </ol>
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NO.	DATE	APPD.	CHKD.	DESCRIPTION

**ERM**

42" AP-1 PIPELINE  
 CONSTRUCTION ALIGNMENT STA 7166+00 TO 7222+00  
 AUGUSTA COUNTY, VIRGINIA

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

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PROJECT NO./DASH NO.  
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GROUP ID: **D**      DRAWING NO.: **E148**

**148 OF 344**

5/19/2017 11:12 AM