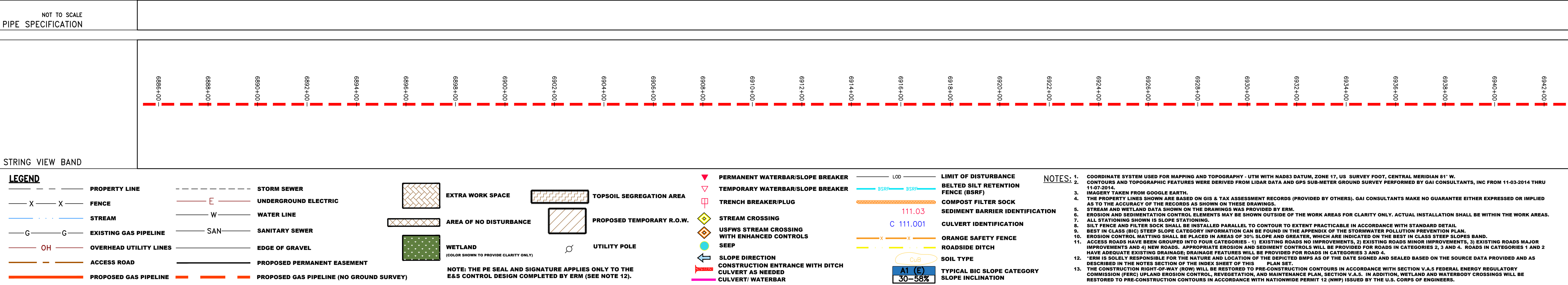
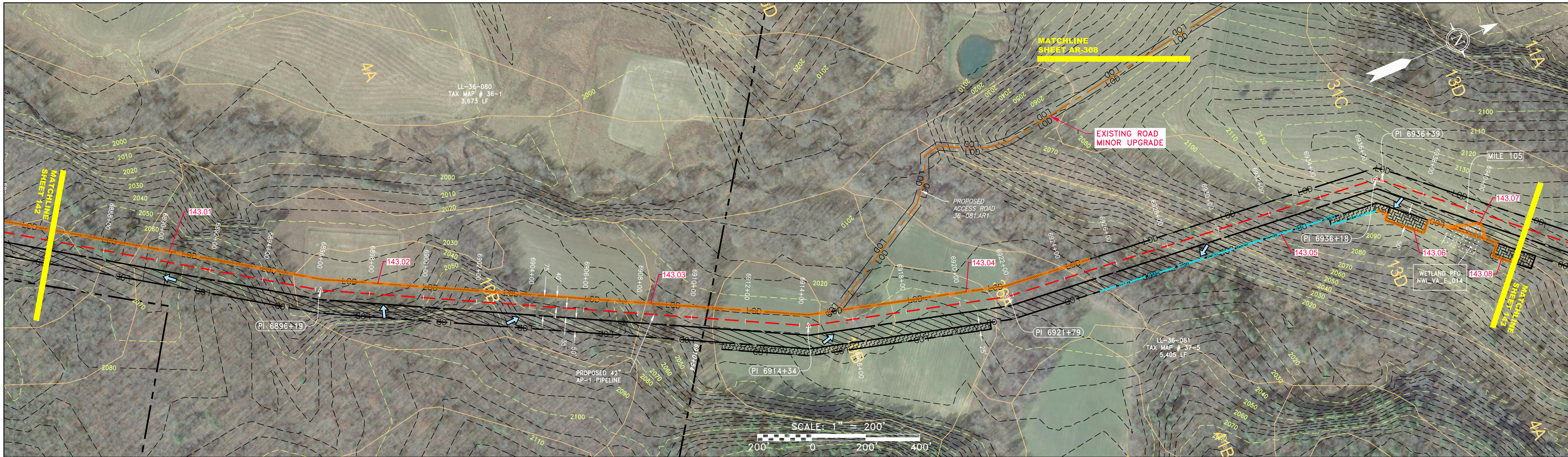
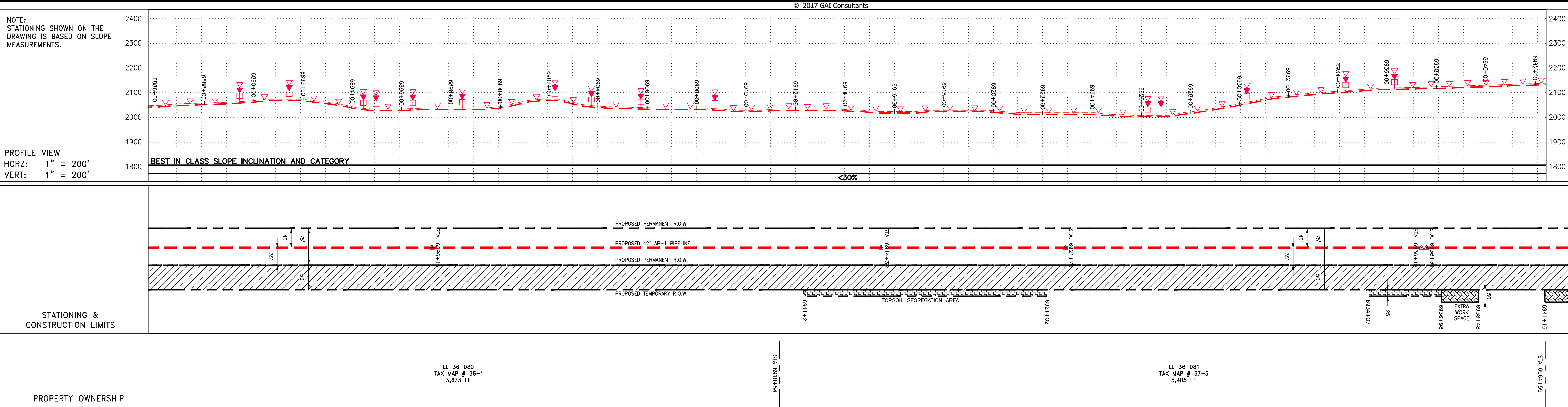


\\GAICONSULTANTS\LOCAL\BUPROJ\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\MON FOREST REROUTE\DWG_PREVIOUS FERC FILING DWGS_ALIGNMENT SHEETS\C140468-00-000-00-E-E139-E143.DWG



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.

REVISIONS			
NO.	DATE	DWN.	APPD.

PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E143

143 OF 344

6/21/2017 9:22 AM

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

CONSTRUCTION ALIGNMENT STA 6886+00 TO 6942+00
BATH COUNTY, VIRGINIA

42" AP-1 PIPELINE

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

gai consultants

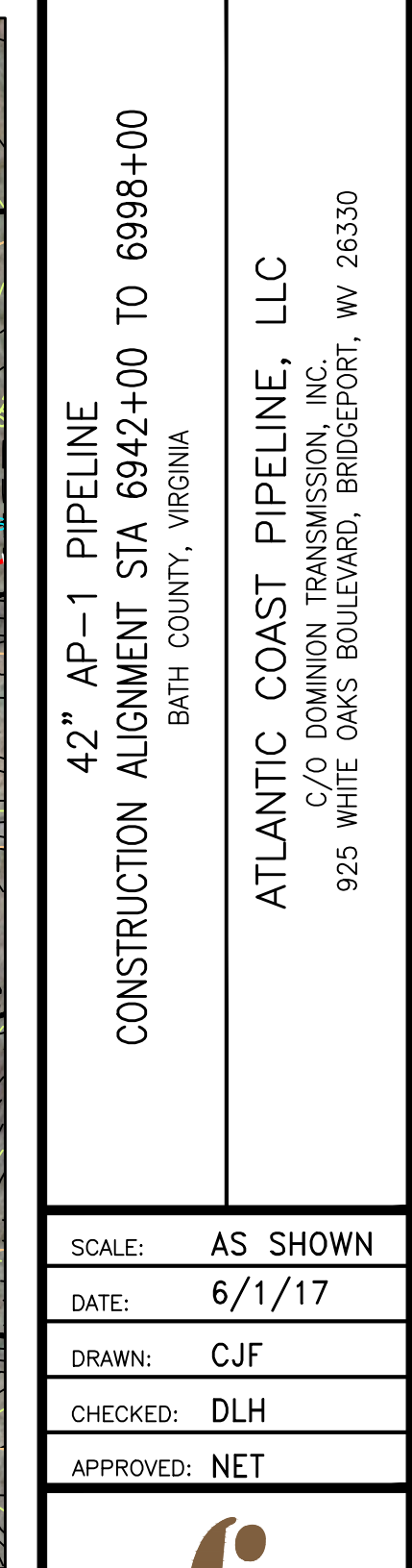
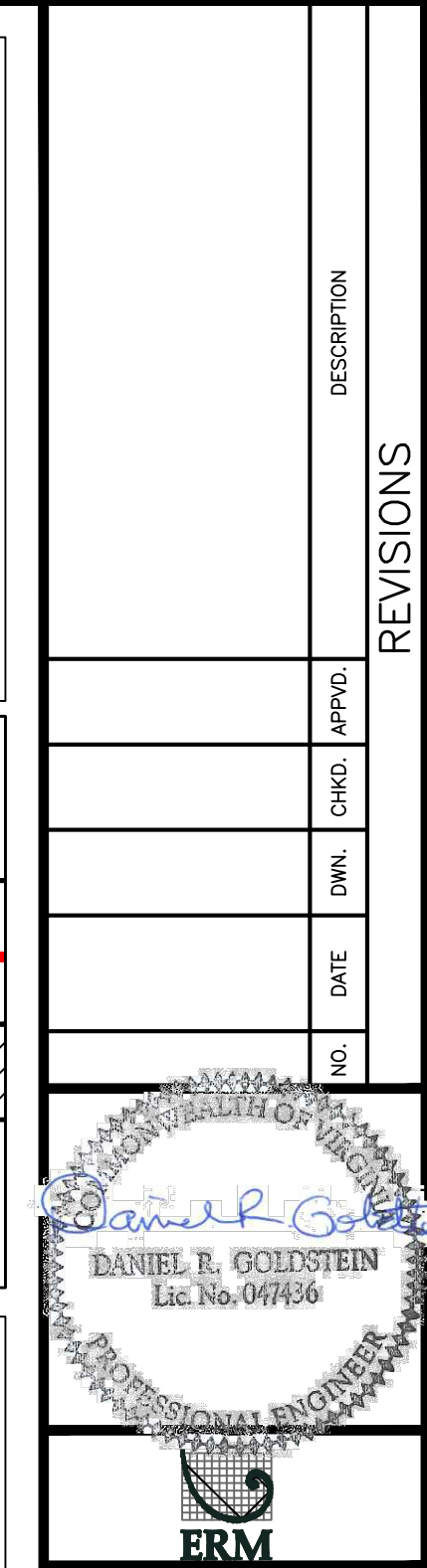
SOUTHPOINTE OFFICE
6000 TOWN CENTER BLVD.
SUITE 300 EAST
CANONSBURG, PA 15317
724-873-3545

mbe
monaloh basin
engineers

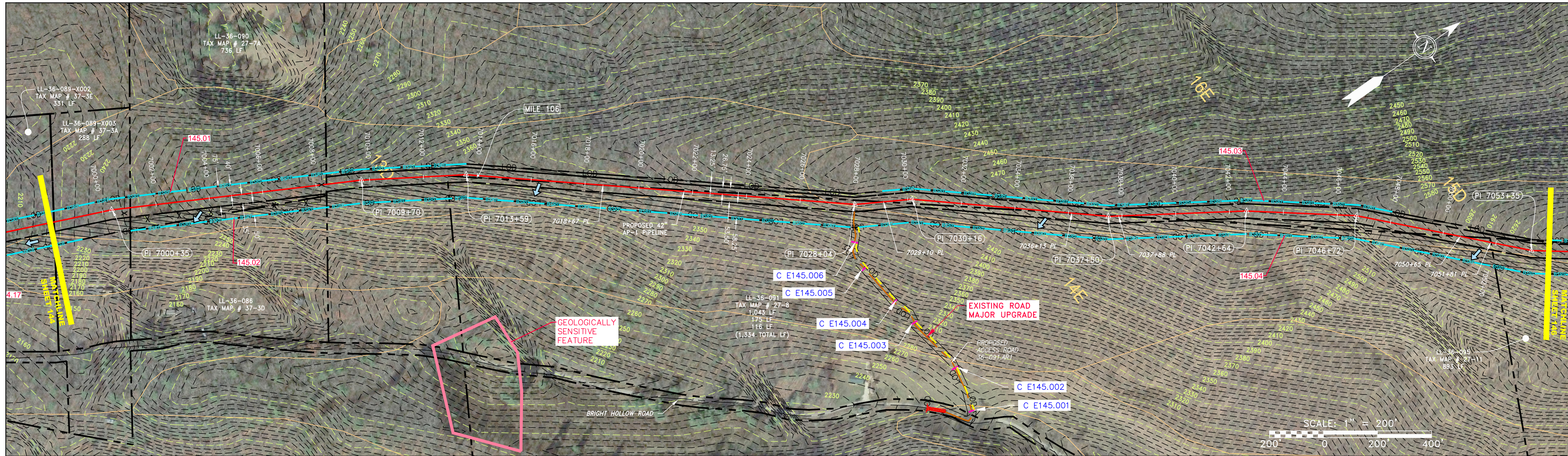
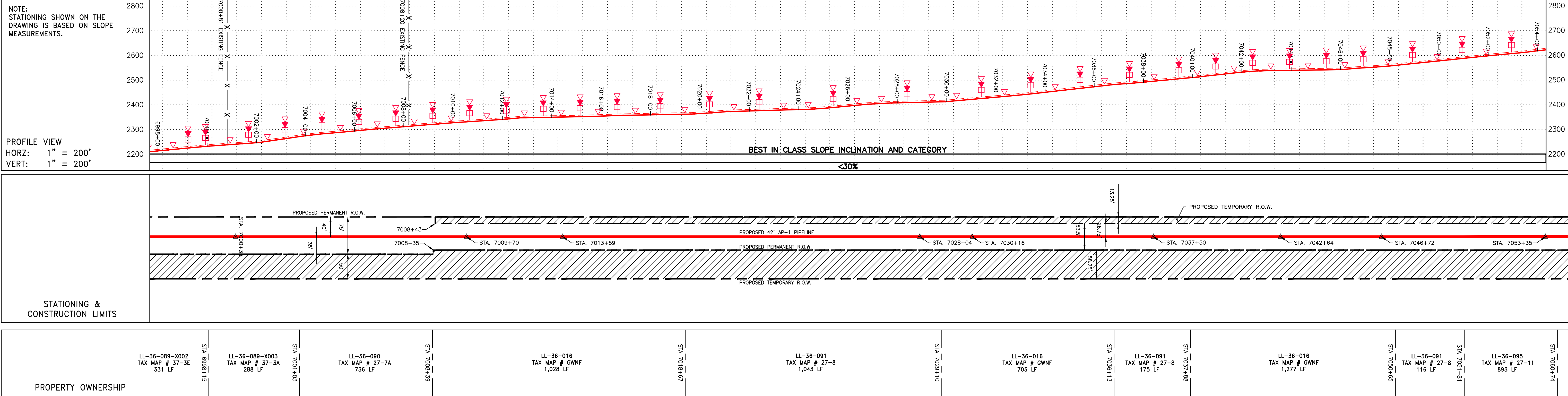
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

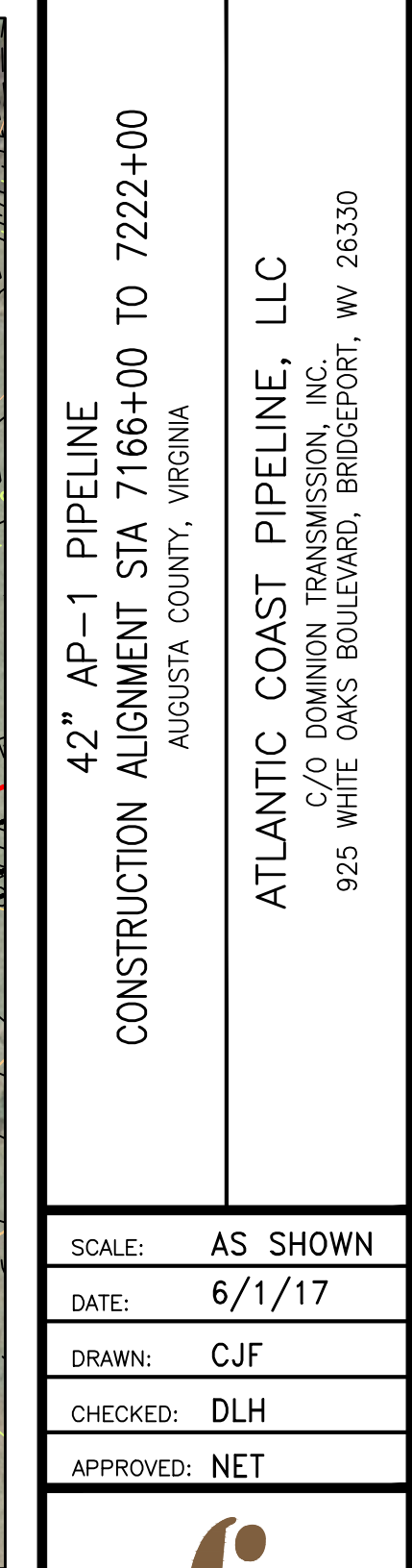
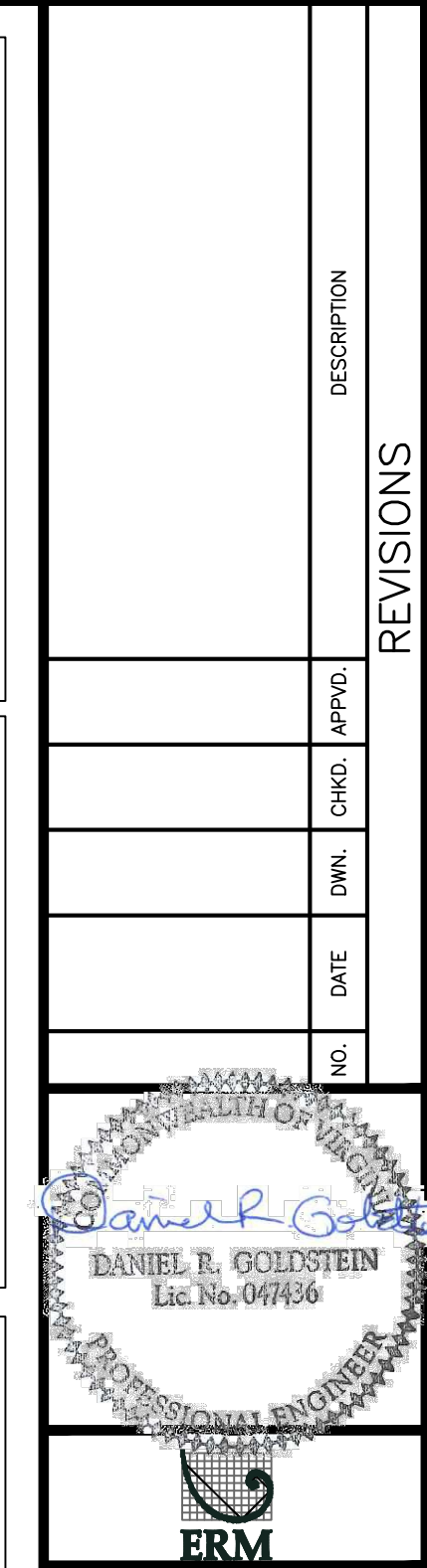
Daniel R. Goldstein
Lic No. 047436

ERM



Z:\ENERGY\2014\C140468.00 - DOMINION - SOUTHEAST PIPE\CAD\WON FOREST_REROUTE\DWG\PREVIOUS FERC FILING DWGS\140468-00-000-00-E-E144-E148.DWG



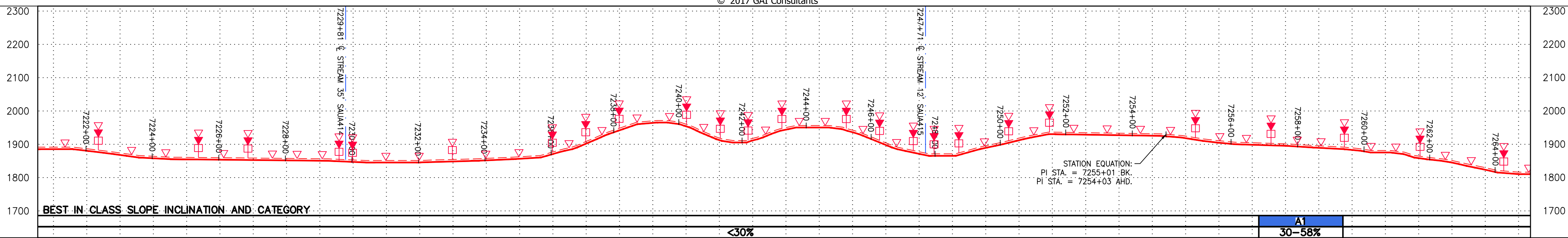


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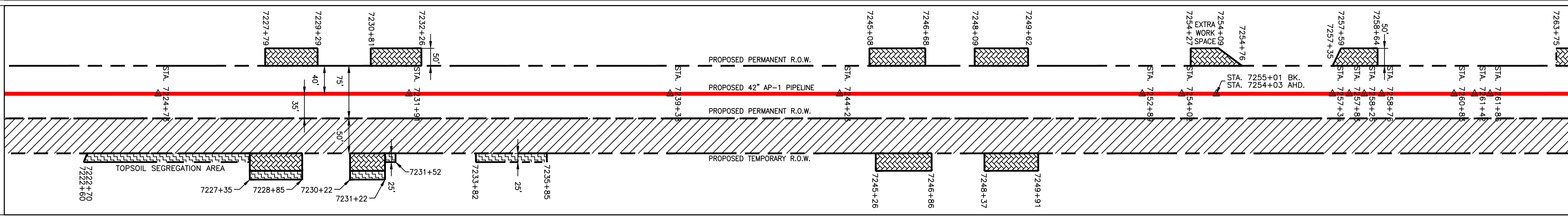
NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON SLOPE
MEASUREMENTS.

PROFILE VIEW

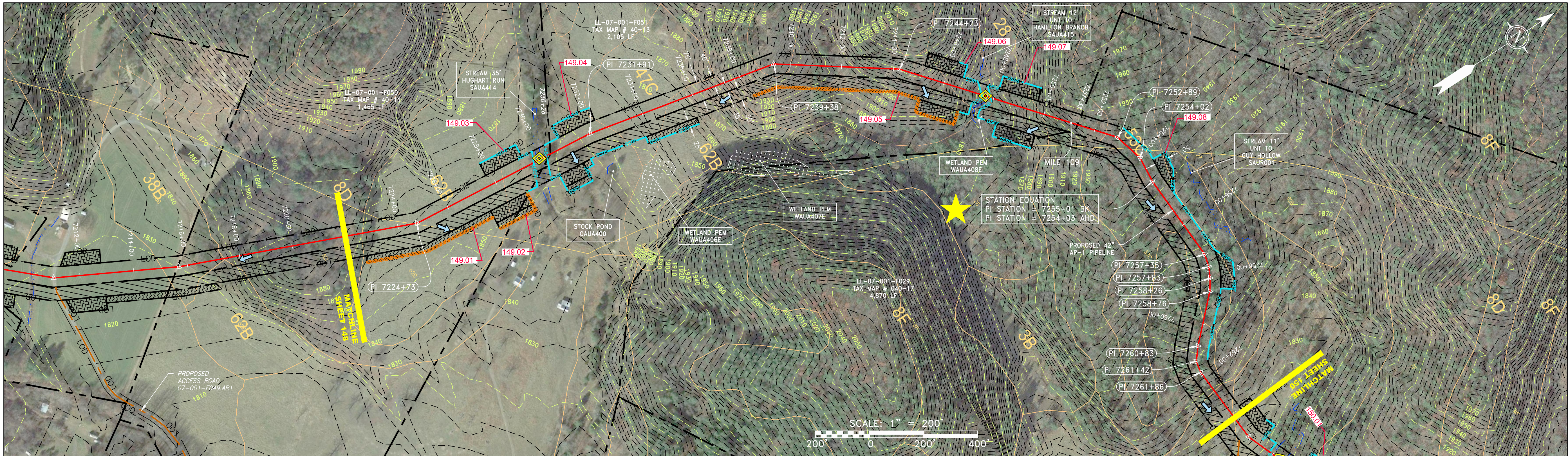
HORZ: 1" = 200'
VERT: 1" = 200'



STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



NOT TO SCALE
PIPE SPECIFICATION

STRING VIEW BAND

LEGEND

— — — — —	PROPERTY LINE	— — — — —	STORM SEWER
X — X — X	FENCE	— — — — —	UNDERGROUND ELECTRIC
— — — — —	STREAM	— — — — —	WATER LINE
— — — — —	EXISTING GAS PIPELINE	— — — — —	SANITARY SEWER
— — — — —	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

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

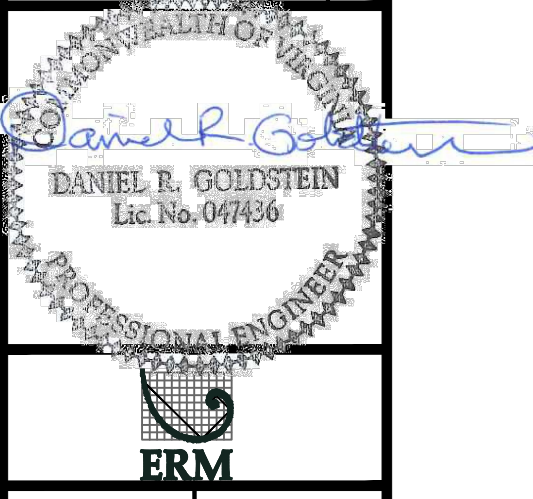
▲	PERMANENT WATERBAR/SLOPE BREAKER	— — — — —	LIMIT OF DISTURBANCE
▲	TEMPORARY WATERBAR/SLOPE BREAKER	— — — — —	BELTED SILT RETENTION FENCE (BSRF)
▲	TRENCH BREAKER/PLUG	— — — — —	COMPOST FILTER SOCK
▲	STREAM CROSSING	— — — — —	SEDIMENT BARRIER IDENTIFICATION
▲	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	— — — — —	CULVERT IDENTIFICATION
▲	SEEP	— — — — —	ORANGE SAFETY FENCE
▲	SLOPE DIRECTION	— — — — —	ROADSIDE DITCH
▲	CONSTRUCTION ENTRANCE WITH DITCH	— — — — —	SOIL TYPE
▲	CULVERT WATERBAR	— — — — —	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 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 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.

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION
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42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7222+00 TO 7264+00
AUGUSTA COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 6/1/17
DRAWN: CJF
CHECKED: DLH
APPROVED: NET



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



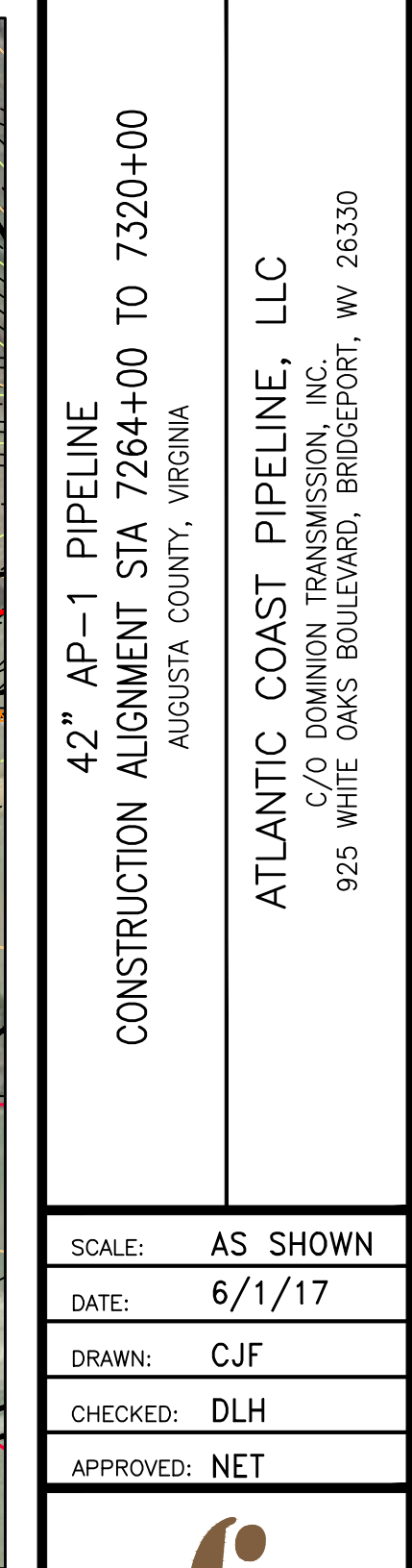
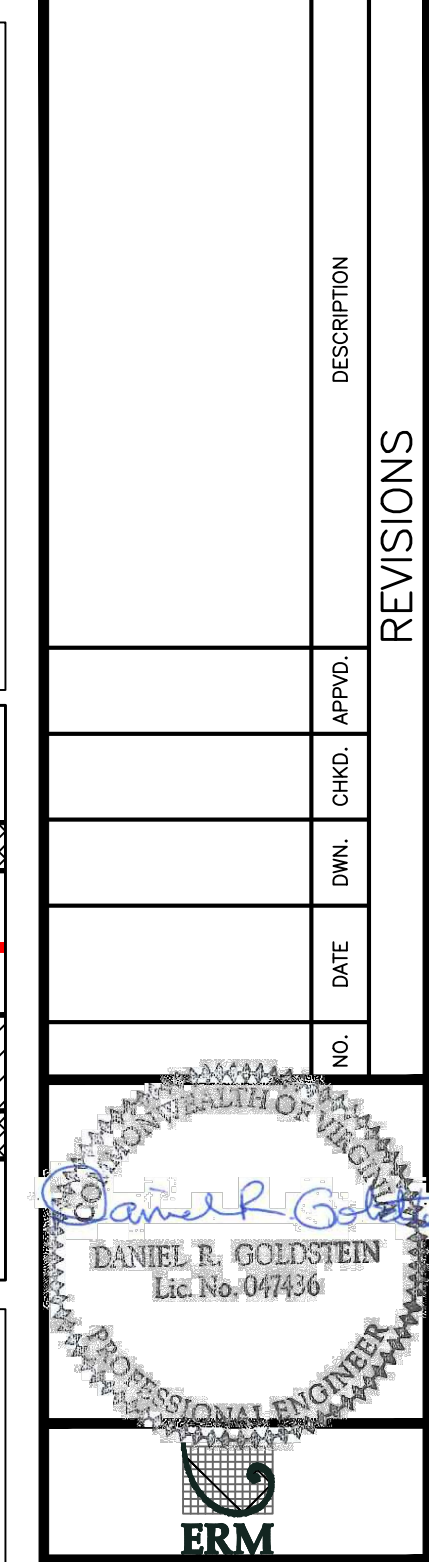
300 BUSINESS CENTER DRIVE
PITTSBURGH, PA 15205
412-788-2433

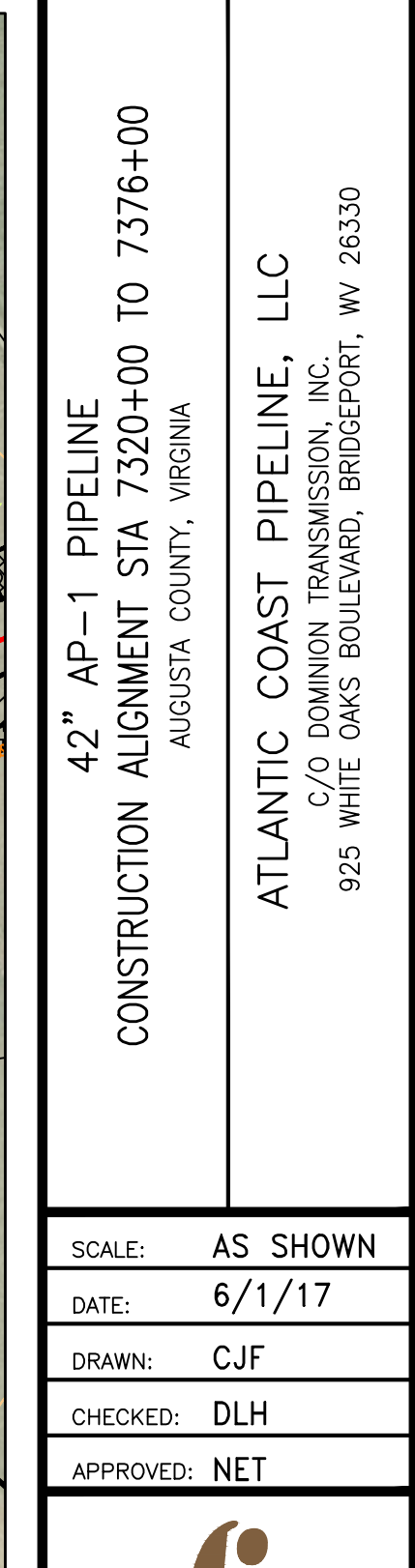
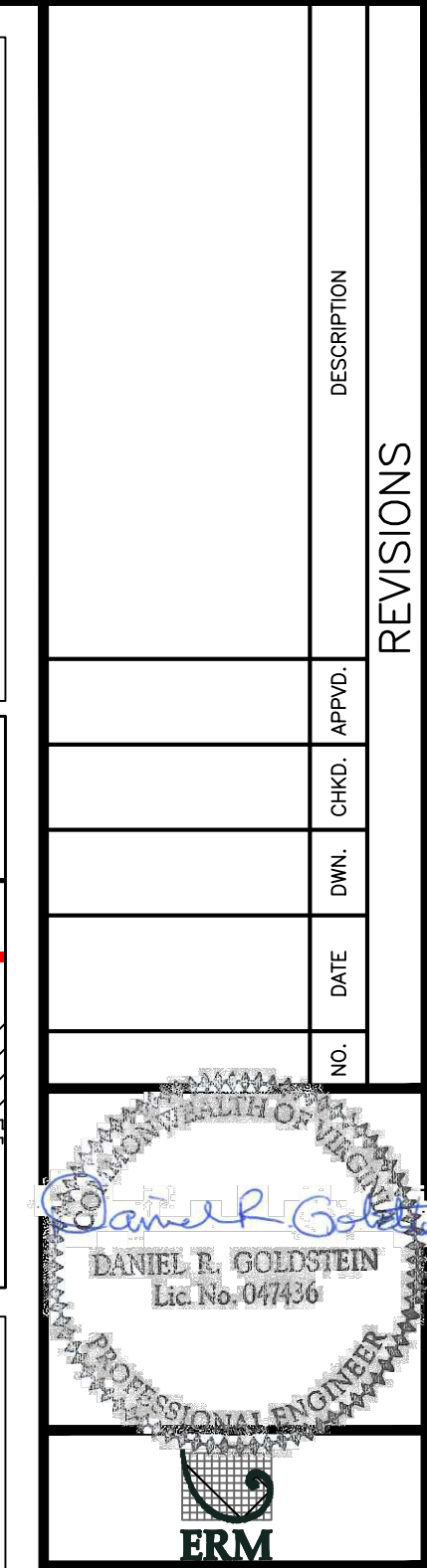
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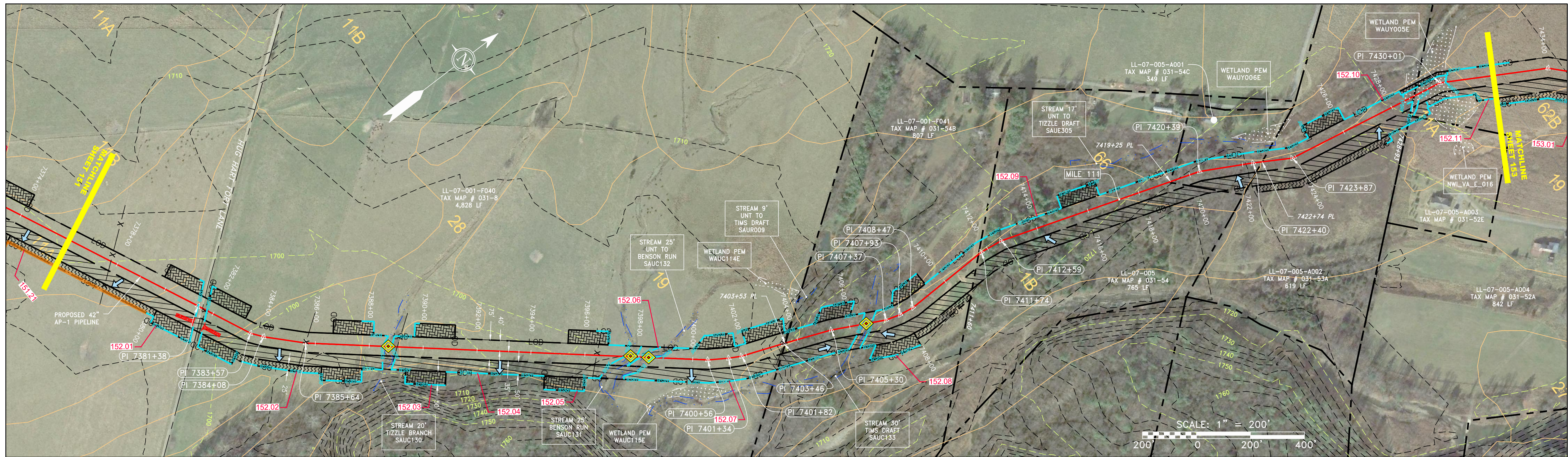
TASK NO. SUB TASK NO.
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GROUP ID DRAWING NO.
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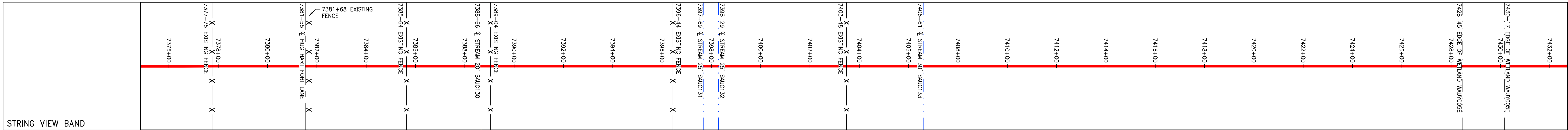
149 OF 344







NOT TO SCALE PIPE SPECIFICATION	
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- | LEGEND | | | | | | | | | | | | | |
|-----------|------------------------|-----------|----------------------|---|------------------------|---|---------------------------|---|--|---|------|------------------------------------|--|
| — X — X — | PROPERTY LINE | — — — — — | STORM SEWER |  | EXTRA WORK SPACE |  | TOPSOIL SEGREGATION AREA |  | PERMANENT WATERBAR/SLOPE BREAKER |  | LDD | LIMIT OF DISTURBANCE | NOTES: 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, U.S. SURVEY FOOT, CENTRAL MERIDIAN 81° W. 2. CONTOURS AND TOPOGRAPHIC FEATURES WERE DERIVED FROM LIDAR DATA AND GPS SUB-METER GROUND SURVEY PERFORMED BY GAI CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. THE PROPERTY LINES SHOWN ARE BASED ON DIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. 5. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 6. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 7. ALL STATIONING SHOWN IS SLOPE STATIONING. 8. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. 9. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 10. EROSION CONTROL MEASURES SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED BY THE BEST IN CLASS STEEP SLOPE BAND. 11. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE. DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 12. *ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED AND AS DESCRIBED IN THE INDEX SHEET OF THIS PLAN SET. 13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION 4.6.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND WATERBARRIER PLAN. 14. ADDITIONAL WATERBARRIER CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH NATIONWIDE PERMIT 12 (NWP) ISSUED BY THE U.S. CORPS OF ENGINEERS. |
| — X — X — | FENCE | — E — | UNDERGROUND ELECTRIC |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | TEMPORARY WATERBAR/SLOPE BREAKER |  | BSRF | BELTED SILT RETENTION FENCE (BSRF) | |
| — W — | STREAM | — W — | WATER LINE |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | TRENCH BREAKER/PLUG |  | BSRF | COMPOST FILTER SOCK | |
| — G — G — | EXISTING GAS PIPELINE | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | STREAM CROSSING |  | BSRF | SEDIMENT BARRIER IDENTIFICATION | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS |  | BSRF | CULVERT IDENTIFICATION | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS |  | BSRF | ORANGE SAFETY FENCE | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS |  | BSRF | ROADSIDE DITCH | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS |  | BSRF | SOIL TYPE | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS |  | BSRF | TYPICAL BIC SLOPE CATEGORY | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS |  | BSRF | SLOPE INCLINATION | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS |  | BSRF | SOIL TYPE | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS |  | BSRF | SOIL TYPE | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS | | BSRF | SOIL TYPE | |
| — OH — | OVERHEAD UTILITY LINES | — SAN — | SANITARY SEWER |  | AREA OF NO DISTURBANCE |  | PROPOSED TEMPORARY R.O.W. |  | USFS WETLAND CROSSING WITH ENHANCED CONTROLS | | | | |

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REVISIONS				
NO.	DATE	DWN.	CHKD.	APPROV.



DANIEL R. GOLDSTEIN
Lic. No. 047430
PROFESSIONAL ENGINEER



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 7376+00 TO 7432+00
AUGUSTA COUNTY, VIRGINIA

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

SCALE:	AS SHOWN
DATE:	6/1/17
DRAWN:	CJF
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. E152
152 OF 344	