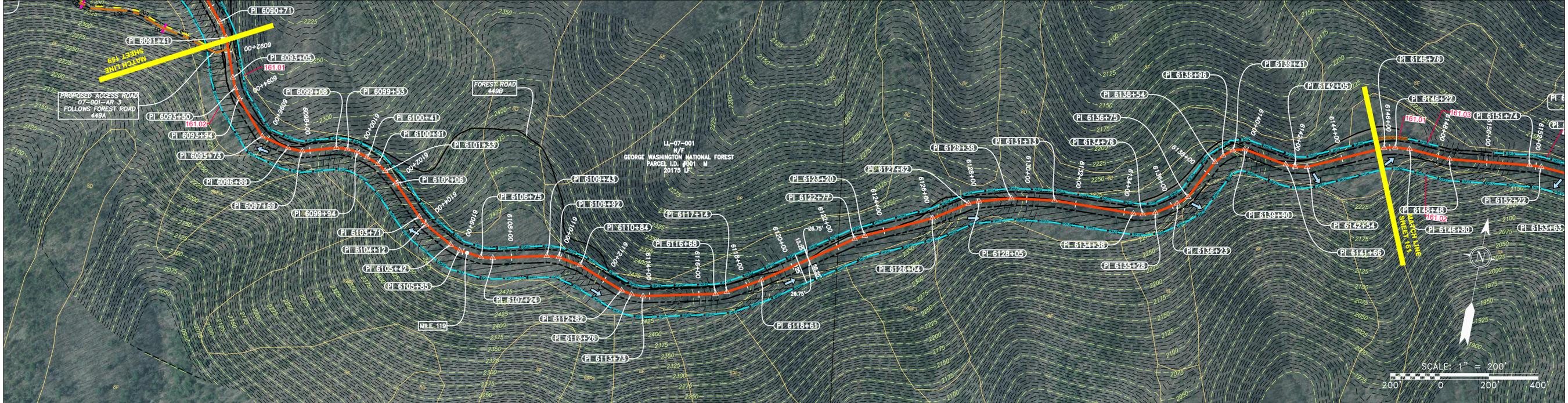


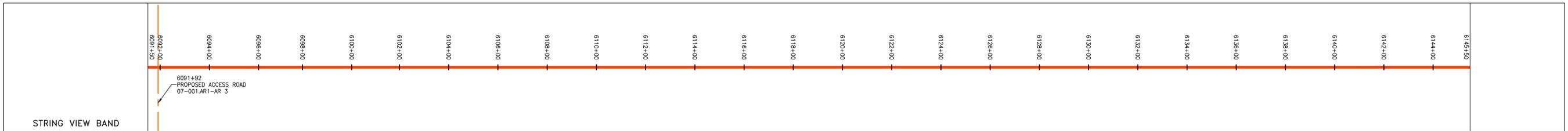
STATIONING & CONSTRUCTION LIMITS

PROPERTY OWNERSHIP

LL-07-001
N/F
GEORGE WASHINGTON NATIONAL FOREST
PARCEL I.D. #001 M
20175 LF



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	NOTE: 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	LOD
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	TEMPORARY WATERBAR/SLOPE BREAKER	BSRF
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	STREAM CROSSING	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
		SLOPE DIRECTION	CONSTRUCTION ENTRANCE WITH DITCH
		CULVERT WATERBAR	CULVERT AS NEEDED
		SLOPE DIRECTION	SLOPE DIRECTION

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.
- ALL ACCESS ROADS SHALL BE PROVIDED WITH DRAINAGE FEATURES AS SHOWN ON THE DRAWINGS.
- 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.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.

NO.	DATE	APPD.	CHKD.	DESCRIPTION

PROFESSIONAL ENGINEER

Daniel R. Goldstein
Lic. No. 047436

ERM

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA: 6091+50 TO 6145+50
AUGUSTA COUNTY, VIRGINIA

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

SCALE: AS SHOWN

DATE: 6/20/17

DRAWN: GPT

CHECKED: DLH

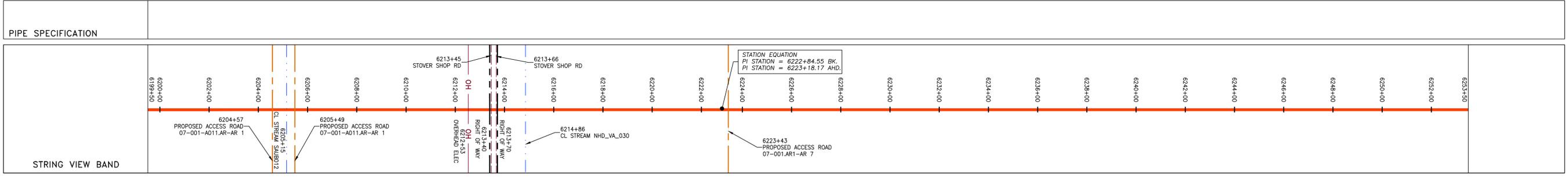
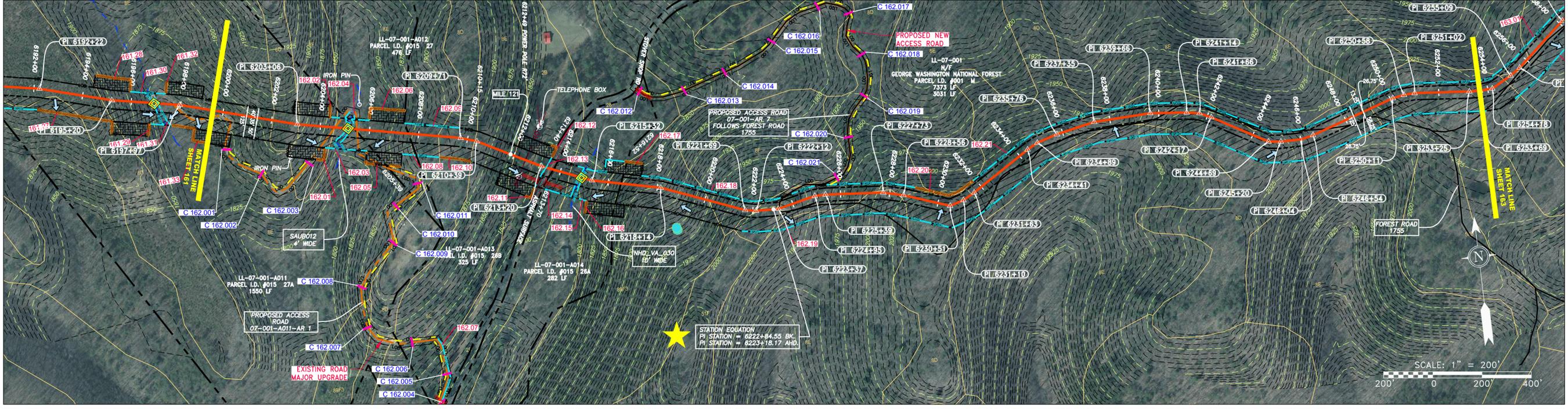
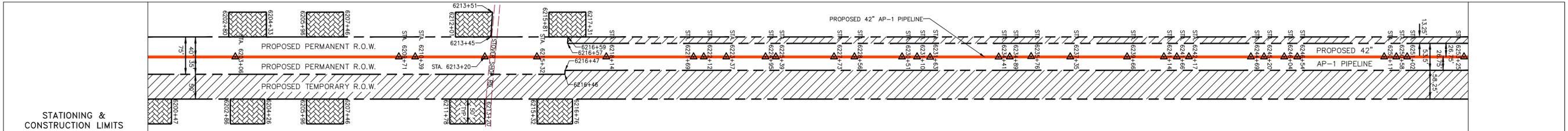
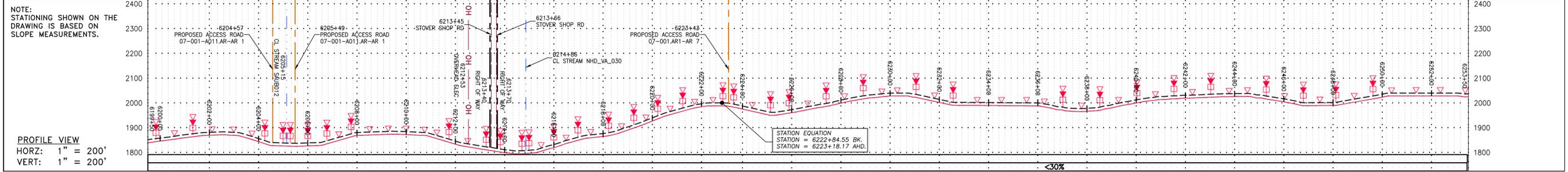
APPROVED: NET

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

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E160
160 OF 344	

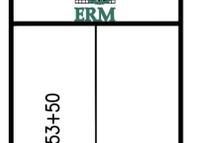
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LEGEND 		NOTES: 1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 11-07-2014. 2. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS. 3. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 4. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 5. ALL STATIONING SHOWN IS SLOPE STATIONING. 6. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. 7. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 8. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPE BAND. 9. ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 10. ERM IS SOLELY RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BSMPS 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. 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.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

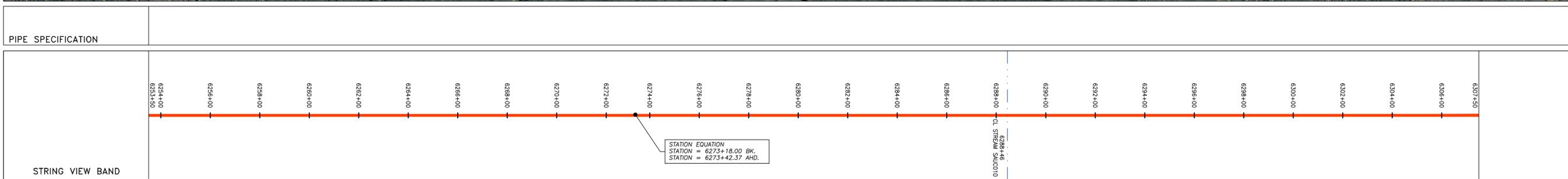
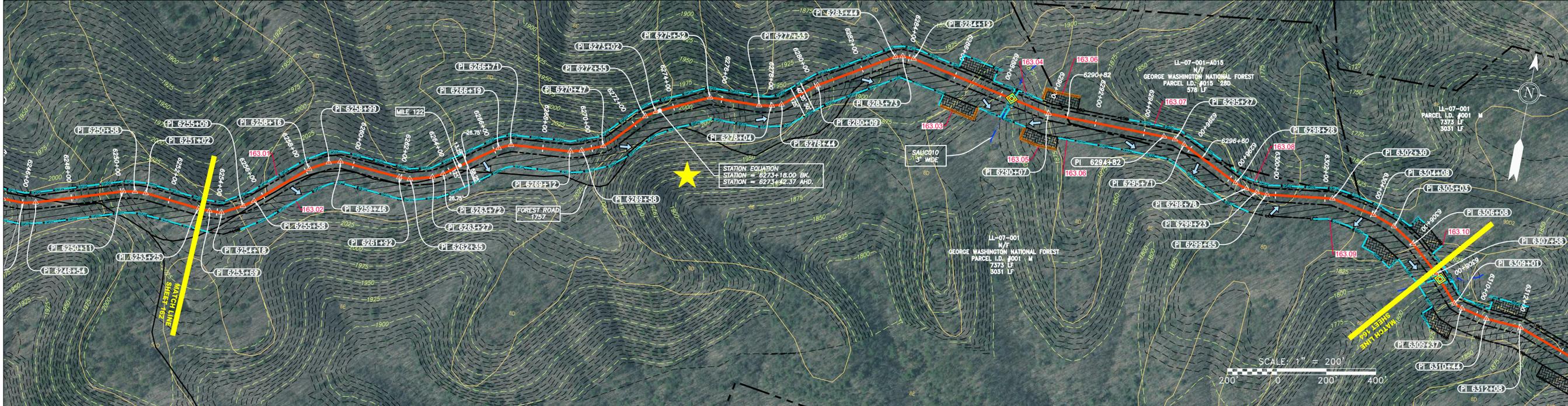
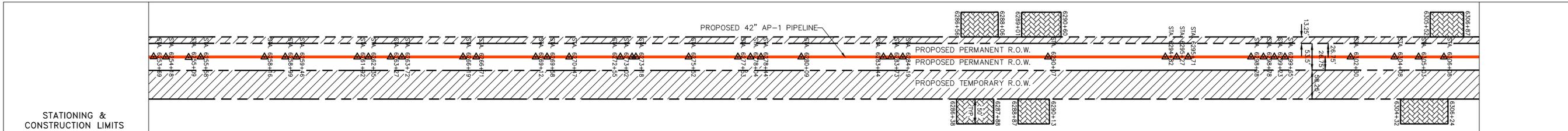
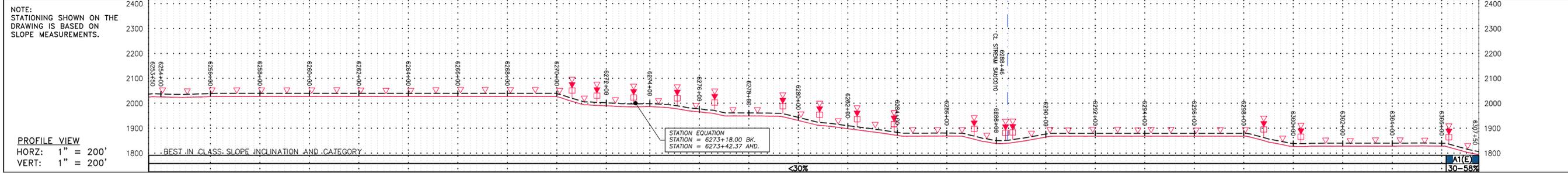


ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 6/20/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E162
162 OF 344	



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	[Hatched Box]	TOPSOIL SEGREGATION AREA
— X — X —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	[Hatched Box]	[Hatched Box]	UTILITY POLE
— G — G —	EXISTING GAS PIPELINE	— S —	WATER LINE	[Green Box]	[Hatched Box]	[Hatched Box]	PROPOSED TEMPORARY R.O.W.
— OH —	OVERHEAD UTILITY LINES	— S —	SANITARY SEWER	[Green Box]	[Green Box]	[Green Box]	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
— A — A —	ACCESS ROAD	— E —	EDGE OF GRAVEL	[Green Box]	[Green Box]	[Green Box]	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).
— P — P —	PROPOSED GAS PIPELINE	— E —	PROPOSED PERMANENT EASEMENT	[Green Box]	[Green Box]	[Green Box]	
— P — P —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	— E —	PROPOSED PERMANENT R.O.W.	[Green Box]	[Green Box]	[Green Box]	

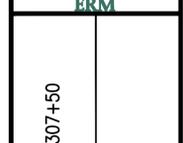
[Red Triangle]	PERMANENT WATERBAR/SLOPE BREAKER	[Blue Line]	LOD	[Blue Line]	LIMIT OF DISTURBANCE
[Red Triangle]	TEMPORARY WATERBAR/SLOPE BREAKER	[Blue Line]	BSRF	[Blue Line]	BELTED SILT RETENTION FENCE (BSRF)
[Red Triangle]	TRENCH BREAKER/PLUG	[Blue Line]	111.01	[Blue Line]	COMPOST FILTER SOCK
[Red Triangle]	STREAM CROSSING	[Blue Line]	C 111.01	[Blue Line]	SEDIMENT BARRIER IDENTIFICATION
[Red Triangle]	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	[Blue Line]	[Blue Line]	[Blue Line]	CULVERT IDENTIFICATION
[Red Triangle]	ORANGE SAFETY FENCE	[Blue Line]	[Blue Line]	[Blue Line]	ROADSIDE DITCH
[Red Triangle]	SEEP	[Blue Line]	[Blue Line]	[Blue Line]	SOIL TYPE
[Red Triangle]	SLOPE DIRECTION	[Blue Line]	[Blue Line]	[Blue Line]	TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION
[Red Triangle]	CONSTRUCTION ENTRANCE WITH DITCH	[Blue Line]	[Blue Line]	[Blue Line]	
[Red Triangle]	CULVERT AS NEEDED	[Blue Line]	[Blue Line]	[Blue Line]	
[Red Triangle]	CULVERT WATERBAR	[Blue Line]	[Blue Line]	[Blue Line]	

NOTES:

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REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



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

42" AP-1 PIPELINE
 CONSTRUCTION ALIGNMENT STA: 6253+50 TO 6307+50

SCALE: AS SHOWN
 DATE: 6/20/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET



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

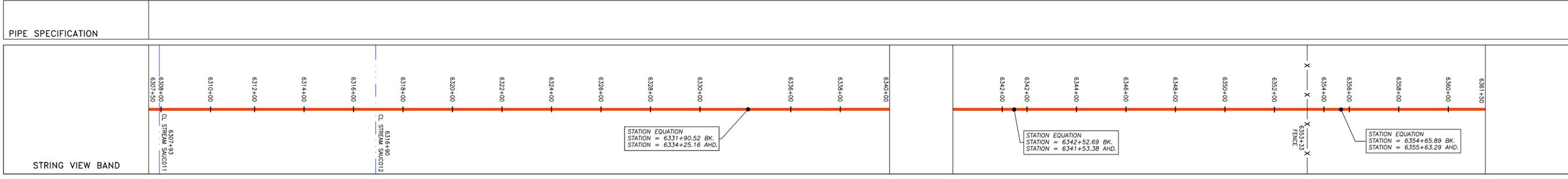
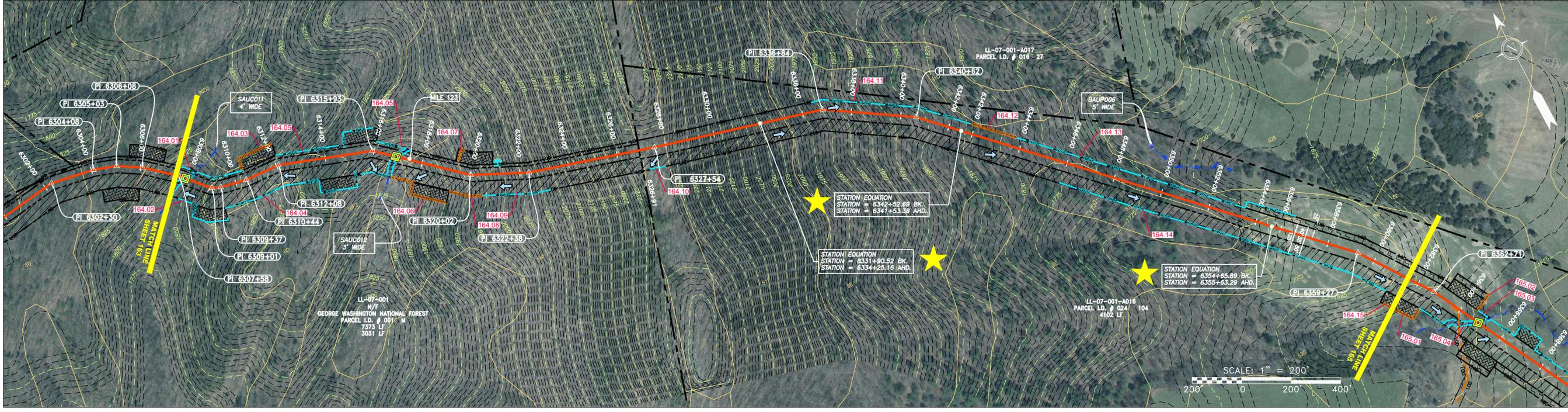
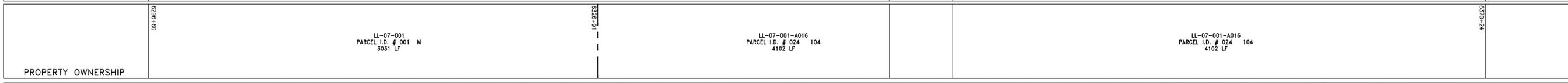
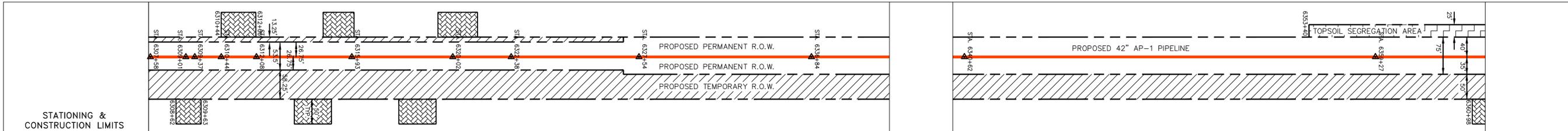
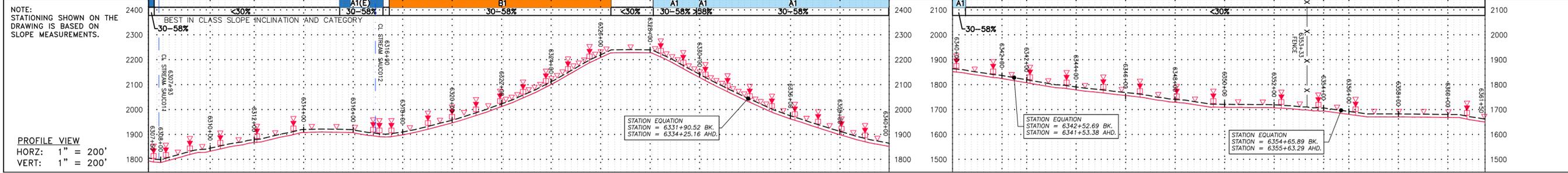
TASK NO.	SUB TASK NO.
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GROUP ID **D** DRAWING NO. **E163**

163 OF 344

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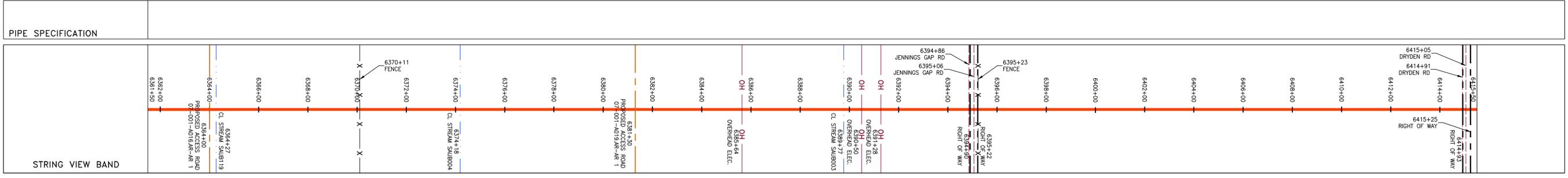
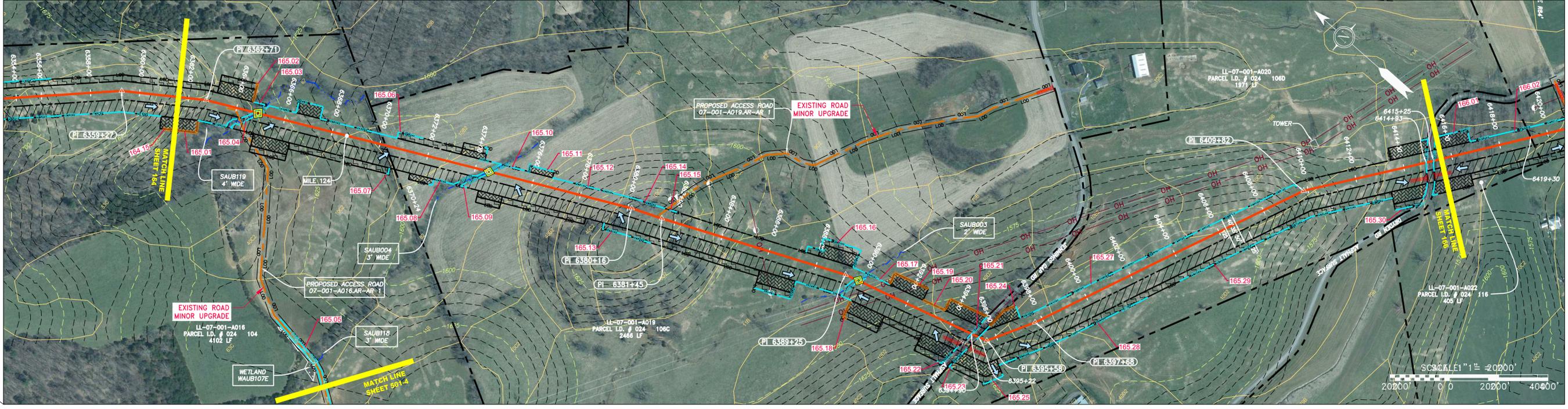
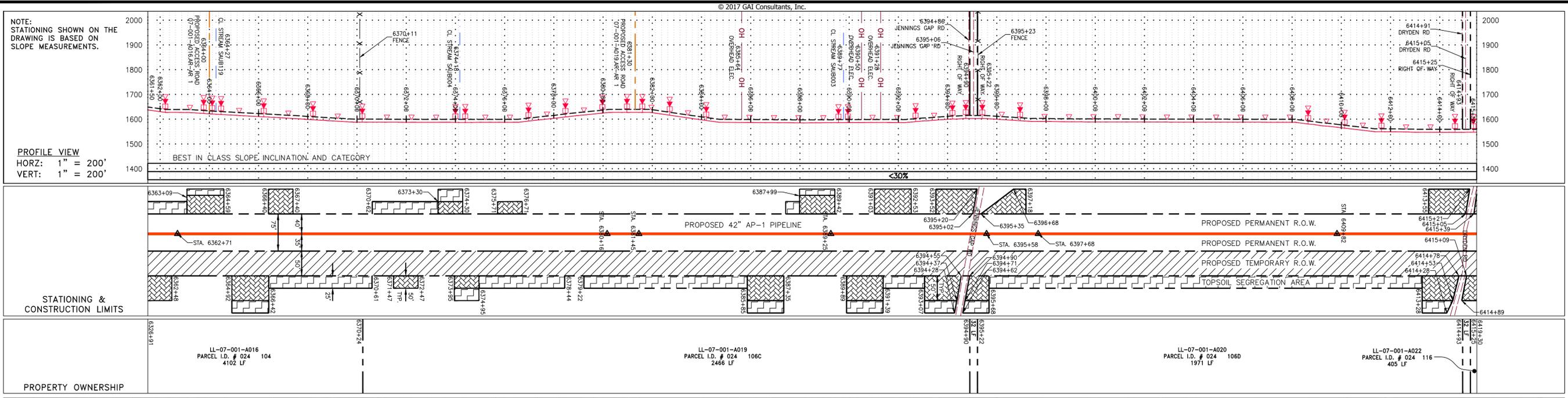
© 2017 GAI Consultants, Inc.



LEGEND 		NOTES: 1. 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. 2. IMAGERY TAKEN FROM GOOGLE EARTH. 3. 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. 4. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM. 5. EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS. 6. ALL STATIONING SHOWN IS SLOPE STATIONING. 7. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL. 8. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. 9. EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES BAND. 10. 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. 11. "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." 12. 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.
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REVISIONS NO. DATE DWN. CHKD. APPVD. DESCRIPTION	
ERM	
42" AP-1 PIPELINE CONSTRUCTION ALIGNMENT STA 6307+50 TO 6361+50 AUGUSTA COUNTY, VIRGINIA ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330	
SCALE:	AS SHOWN
DATE:	6/20/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET
SOUTHPOINTE OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, VA 15317 724-873-3545	
PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E164
164 OF 344	

GAI CAD FILE NO. R:\050-5159 - SERP - MAPPING\SURVEY DRAWING\SEC 3\RR SHEETS 164-168 (21-25).DWG



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	NOTE: 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	USFS STREAM CROSSING WITH ENHANCED CONTROLS
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	CULVERT AS NEEDED	CULVERT WATERBAR

NOTES:

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REVISIONS

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

DANIEL R. GOLDSTEIN
 PROFESSIONAL ENGINEER

ERM
 ENVIRONMENTAL RECOVERY MANAGEMENT

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

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6361+50 TO 6415+50
 AUGUSTA COUNTY, VIRGINIA

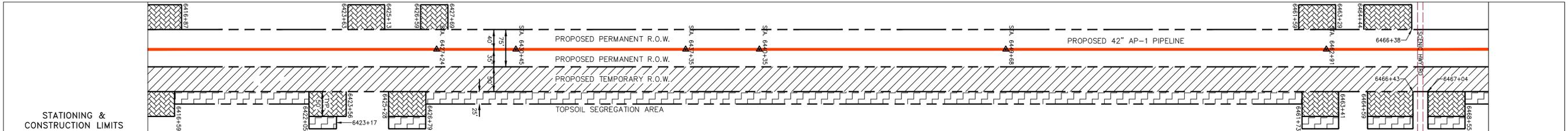
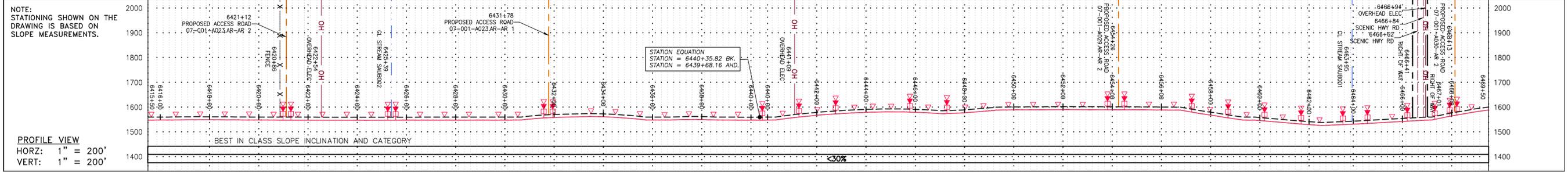
SCALE: AS SHOWN
 DATE: 6/20/17
 DRAWN: GPT
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SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLD.
 CANONSBURG, PA 15317
 724-873-3545

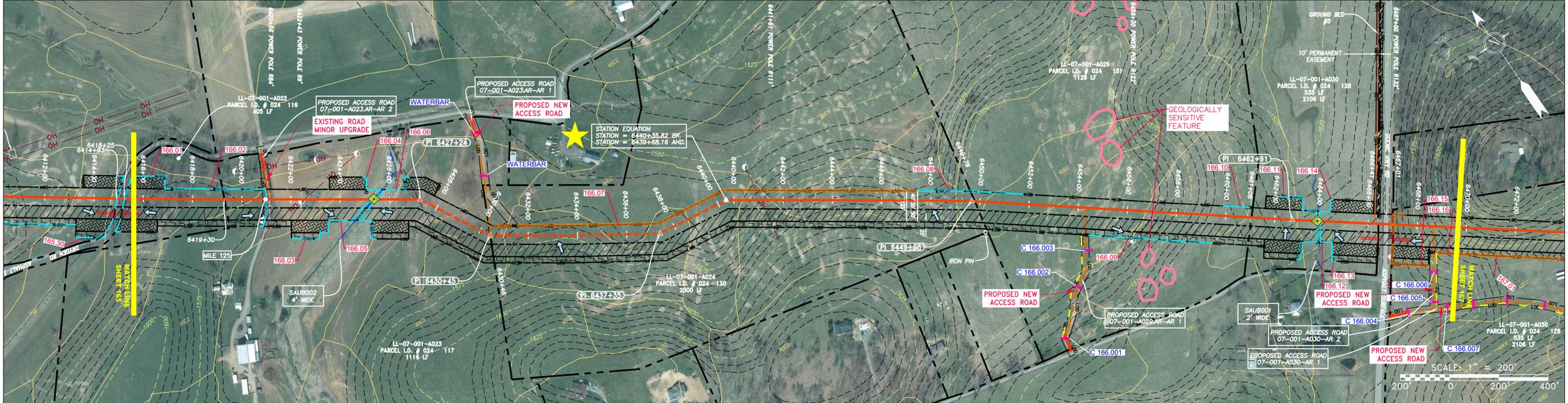
PROJECT NO./DASH NO. **140468**
 TASK NO. SUB TASK NO. **005 00**
 GROUP ID DRAWING NO. **D E165**
 165 OF 344

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 3\RR SHEETS 164-168 (21-25).DWG

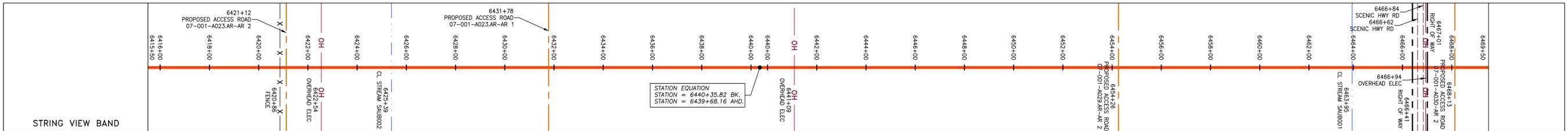
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PROPERTY OWNERSHIP	PARCEL I.D.	AREA (LF)
LL-07-001-A022	# 024 116	405 LF
LL-07-001-A023	# 024 117	1116 LF
LL-07-001-A024	# 024 130	2000 LF
LL-07-001-A029	# 024 131	1128 LF
LL-07-001-A030	# 024 128	535 LF
LL-07-001-A030	# 024 128	2106 LF



PIPE SPECIFICATION
PROPOSED ACCESS ROAD 07-001-A023-AR-2
PROPOSED ACCESS ROAD 07-001-A023-AR-1
PROPOSED ACCESS ROAD 07-001-A029-AR-1
PROPOSED ACCESS ROAD 07-001-A030-AR-2
PROPOSED ACCESS ROAD 07-001-A030-AR-1



LEGEND

PROPERTY LINE	STORM SEWER	EXTRA WORK SPACE	LIMIT OF DISTURBANCE
FENCE	UNDERGROUND ELECTRIC	TOPSOIL SEGREGATION AREA	BELTED SILT RETENTION FENCE (BSRF)
STREAM	WATER LINE	AREA OF NO DISTURBANCE	COMPOST FILTER SOCK
EXISTING GAS PIPELINE	SANITARY SEWER	PROPOSED TEMPORARY R.O.W.	SEDIMENT BARRIER IDENTIFICATION
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	CULVERT IDENTIFICATION
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	UTILITY POLE	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, 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.
- ACCESS ROADS HAVE BEEN GROUPED INTO FOUR CATEGORIES - 1) EXISTING ROADS NO IMPROVEMENTS, 2) EXISTING ROADS MINOR IMPROVEMENTS, 3) EXISTING ROADS MAJOR IMPROVEMENTS AND 4) NEW ROADS. APPROPRIATE EROSION AND SEDIMENT CONTROLS WILL BE PROVIDED FOR ROADS IN CATEGORIES 2, 3 AND 4. ROADS IN CATEGORIES 1 AND 2 HAVE ADEQUATE EXISTING DRAINAGE; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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- THE CONSTRUCTION RIGHT-OF-WAY 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

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6415+50 TO 6469+50
 AUGUSTA COUNTY, VIRGINIA

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

SCALE: AS SHOWN
 DATE: 6/20/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

gai consultants

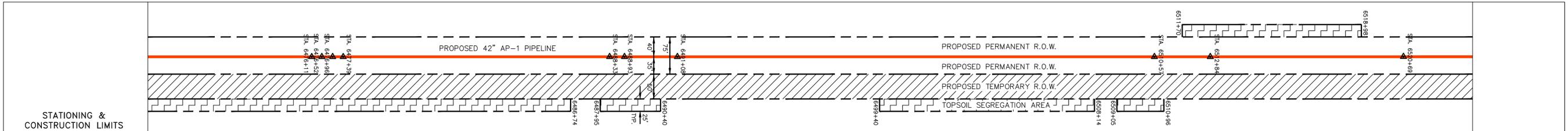
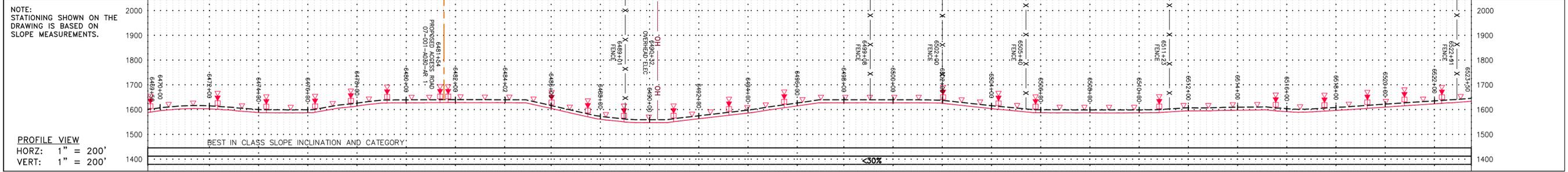
SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLDG.
 CANONSBURG, PA 15317
 724-873-3545

PROJECT NO./DASH NO.
140468

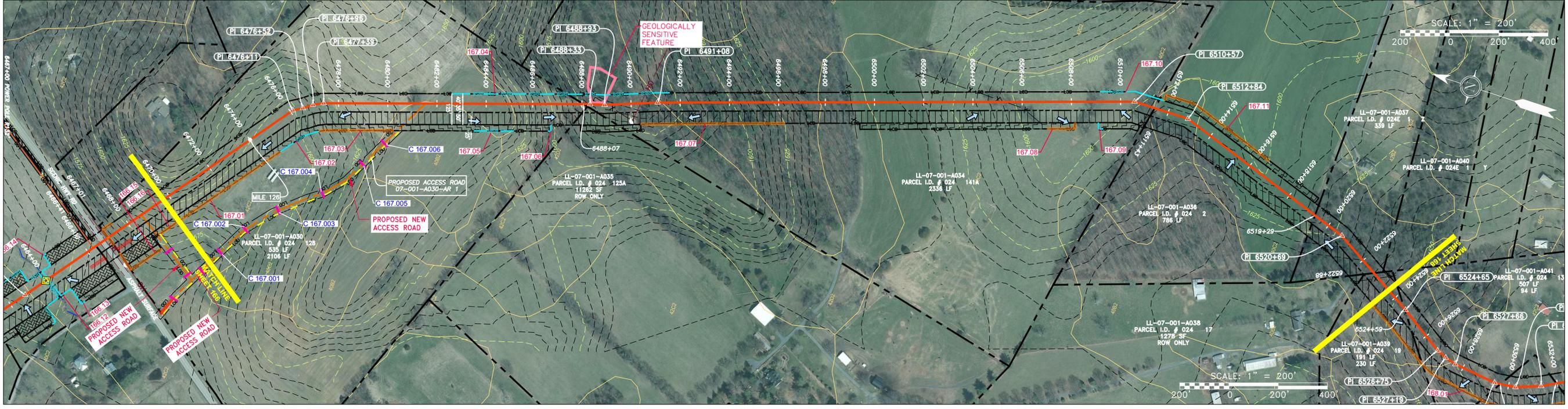
TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E166

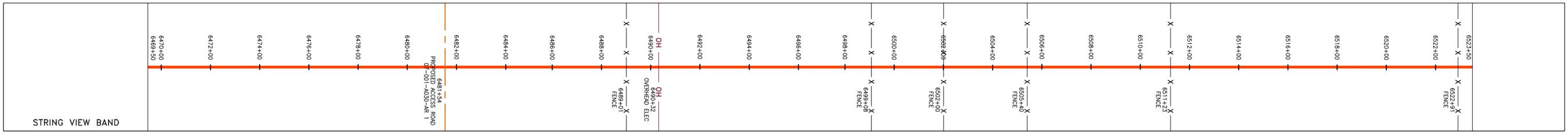
16 OF 344



PROPERTY OWNERSHIP
LL-07-001-A030 PARCEL I.D. # 024 128 2106 LF
LL-07-001-A035 PARCEL I.D. # 024 125A 11262 SF ROW ONLY
LL-07-001-A034 PARCEL I.D. # 024 141A 2336 LF
LL-07-001-A036 PARCEL I.D. # 024 2 786 LF
LL-07-001-A039 PARCEL I.D. # 024 19 191 LF
LL-07-001-A037 PARCEL I.D. # 024E 1 339 LF
LL-07-001-A038 PARCEL I.D. # 024 17 1278 SF ROW ONLY



PIPE SPECIFICATION
6470+00
6471+00
6472+00
6473+00
6474+00
6475+00
6480+00
6482+00
6484+00
6486+00
6488+00
6490+00
6492+00
6494+00
6496+00
6498+00
6500+00
6502+00
6504+00
6506+00
6508+00
6510+00
6512+00
6514+00
6516+00
6518+00
6520+00
6522+00
6523+50



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	NOTE: 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	LIMIT OF DISTURBANCE
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	STREAM CROSSING	COMPOST FILTER SOCK
		STREAM CROSSING WITH ENHANCED CONTROLS	SEDIMENT BARRIER IDENTIFICATION
		CULVERT AS NEEDED	ORANGE SAFETY FENCE
		CULVERT WATERBAR	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.
- 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.
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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 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 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.
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- THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.S FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN, SECTION V.4.S. 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		DESCRIPTION
NO.	DATE	DWN.
CHKD.	APPD.	

PROFESSIONAL ENGINEER
 Daniel R. Goldstein
 Lic. No. 047436

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

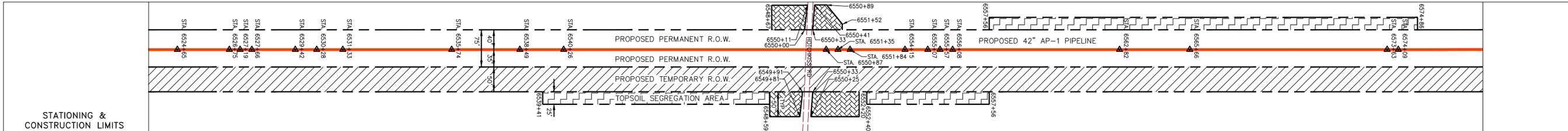
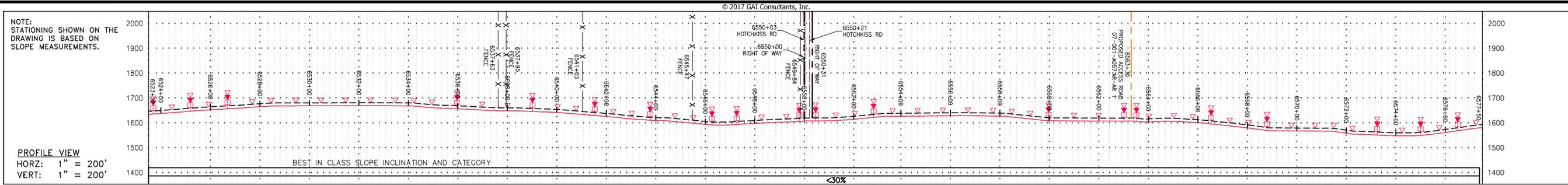
CONSTRUCTION ALIGNMENT STA 6469+50 TO 6523+50

SCALE: AS SHOWN
 DATE: 6/20/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

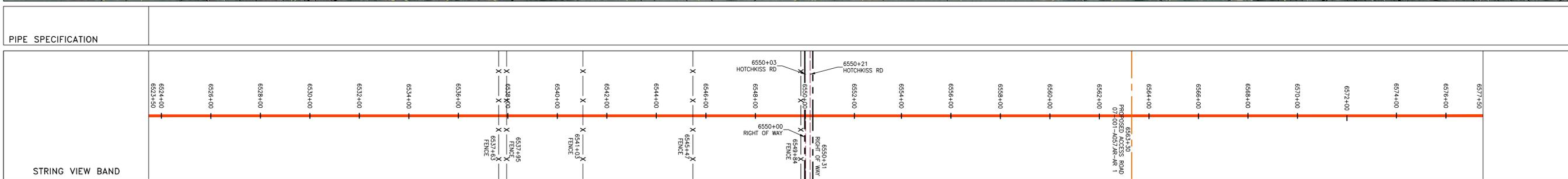
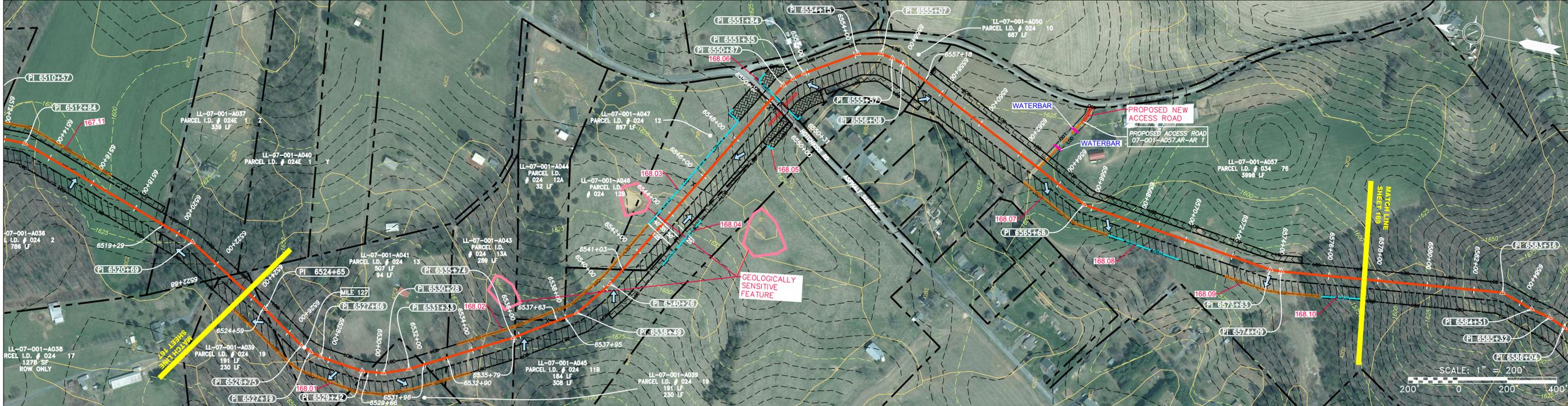
gai consultants
 SOUTHPOINTE OFFICE
 6000 TOWN CENTER BLD.
 CANONSBURG, PA 15317
 724-873-3545

PROJECT NO./DASH NO. **140468**
 TASK NO. SUB TASK NO. **005 00**
 GROUP ID DRAWING NO. **D E167**
 167 OF 344

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING SURVEY DRAWING SEC 3\RR SHEETS 164-168 (21-25).DWG



STATIONING & CONSTRUCTION LIMITS	PROPERTY OWNERSHIP
6520+00	LL-07-001-A039 PARCEL I.D. # 024 191 LF
6524+00	LL-07-001-A041 PARCEL I.D. # 024 507 LF
6528+00	LL-07-001-A039 PARCEL I.D. # 024 230 LF
6532+00	LL-07-001-A043 PARCEL I.D. # 024 289 LF
6536+00	LL-07-001-A045 PARCEL I.D. # 024 118 LF
6540+00	LL-07-001-A044 PARCEL I.D. # 024 12A 32 LF
6544+00	LL-07-001-A047 PARCEL I.D. # 024 12 897 LF
6548+00	LL-07-001-A050 PARCEL I.D. # 024 10 687 LF
6552+00	LL-07-001-A057 PARCEL I.D. # 024 76 3998 LF



<p>LEGEND</p> <ul style="list-style-type: none"> — X — X — PROPERTY LINE — F — FENCE — G — G — EXISTING GAS PIPELINE — OH — OH — OVERHEAD UTILITY LINES — — — ACCESS ROAD — — — PROPOSED GAS PIPELINE — — — PROPOSED PERMANENT EASEMENT — — — PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<p>— E — STORM SEWER</p> <p>— W — UNDERGROUND ELECTRIC</p> <p>— W — WATER LINE</p> <p>— SAN — SANITARY SEWER</p> <p>— — — EDGE OF GRAVEL</p>	<p>— — — EXTRA WORK SPACE</p> <p>— — — TOPSOIL SEGREGATION AREA</p> <p>— — — AREA OF NO DISTURBANCE</p> <p>— — — WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</p> <p>— — — UTILITY POLE</p>	<p>— — — PERMANENT WATERBAR/SLOPE BREAKER</p> <p>— — — TEMPORARY WATERBAR/SLOPE BREAKER</p> <p>— — — TRENCH BREAKER/PLUG</p> <p>— — — STREAM CROSSING</p> <p>— — — USFWS STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>— — — SEEP</p> <p>— — — SLOPE DIRECTION</p> <p>— — — CONSTRUCTION ENTRANCE WITH DITCH</p> <p>— — — CULVERT AS NEEDED</p> <p>— — — CULVERT WATERBAR</p>	<p>— — — LOD</p> <p>— — — BSRF</p> <p>— — — 111.03</p> <p>— — — C 111.001</p> <p>— — — CUB</p> <p>— — — A1 (E) 30-58%</p>	<p>— — — LIMIT OF DISTURBANCE</p> <p>— — — BELTED SILT RETENTION FENCE (BSRF)</p> <p>— — — COMPOST FILTER SOCK</p> <p>— — — SEDIMENT BARRIER IDENTIFICATION</p> <p>— — — CULVERT IDENTIFICATION</p> <p>— — — ORANGE SAFETY FENCE</p> <p>— — — ROADSIDE DITCH</p> <p>— — — SOIL TYPE</p> <p>— — — TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION</p>	<p>NOTES:</p> <ol style="list-style-type: none"> 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. 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. 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. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN. ALL STATIONING SHOWN IS SLOPE STATIONING. 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. 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.
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6523+50 TO 6577+50

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

SCALE: AS SHOWN
DATE: 6/20/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET

gai consultants

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

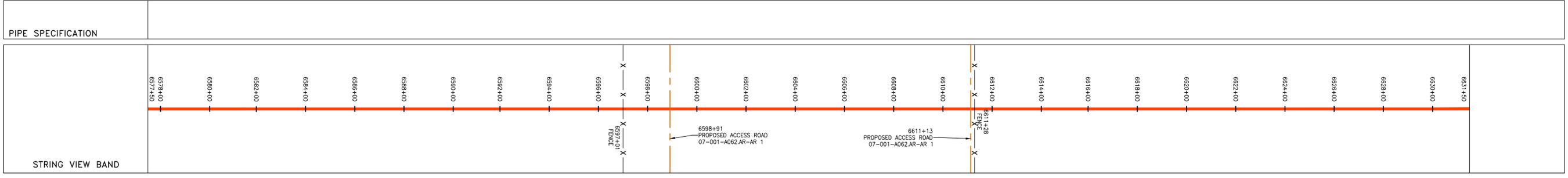
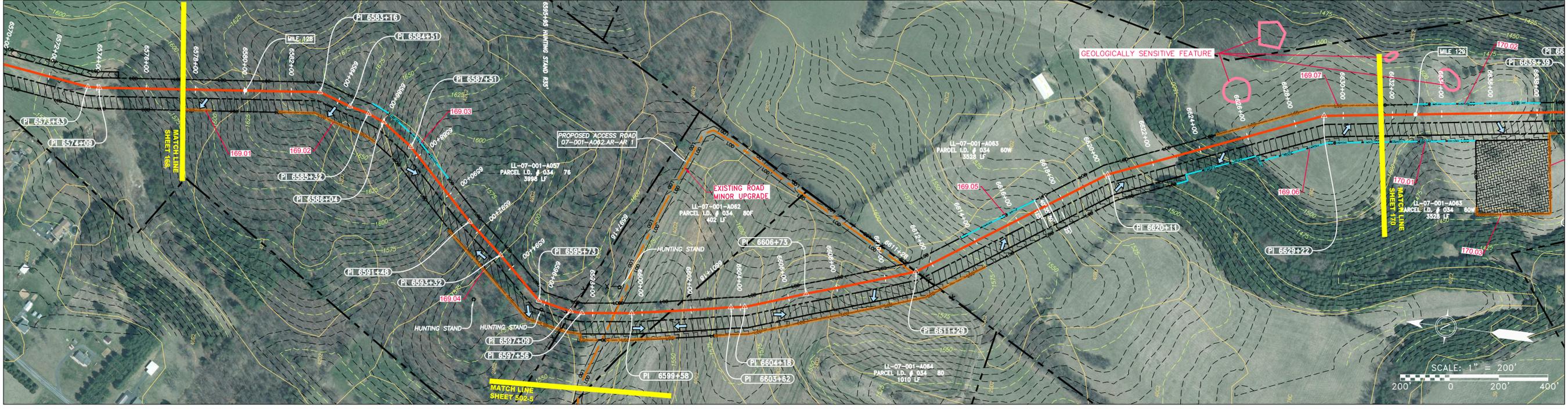
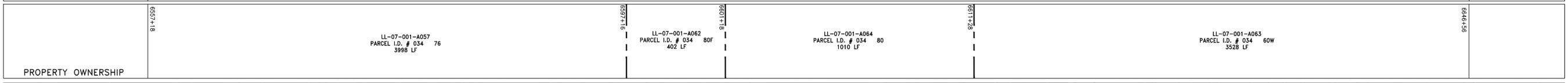
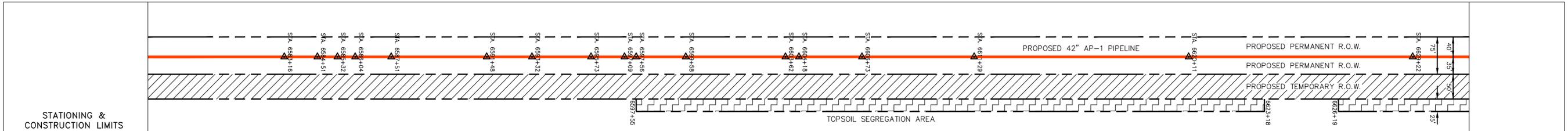
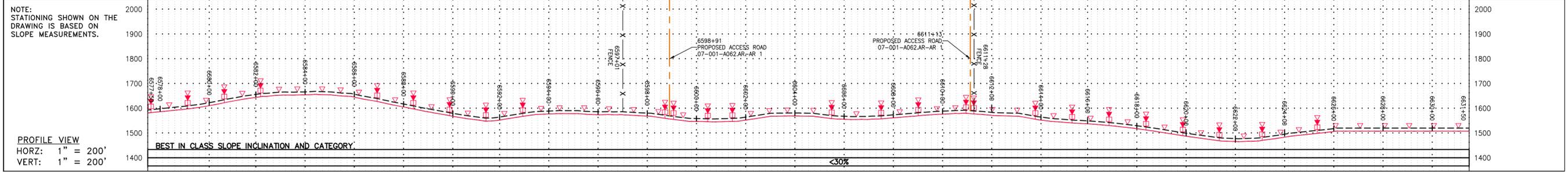
PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E168

168 OF 344

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.



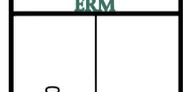
LEGEND

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	EDGE OF GRAVEL	SLOPE DIRECTION
OVERHEAD UTILITY LINES	PROPOSED PERMANENT EASEMENT	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	SLOPE DIRECTION
ACCESS ROAD	PROPOSED GAS PIPELINE		SLOPE DIRECTION
PROPOSED GAS PIPELINE			SLOPE DIRECTION

NOTES:

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NO.	DATE	BY	CHKD.	APPVD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 6577+50 TO 6631+50
 AUGUSTA COUNTY, VIRGINIA

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

SCALE:	AS SHOWN
DATE:	6/20/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E169
169 OF 344	

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 3\RR SHEETS 169-170 173 (26-27-30).DWG