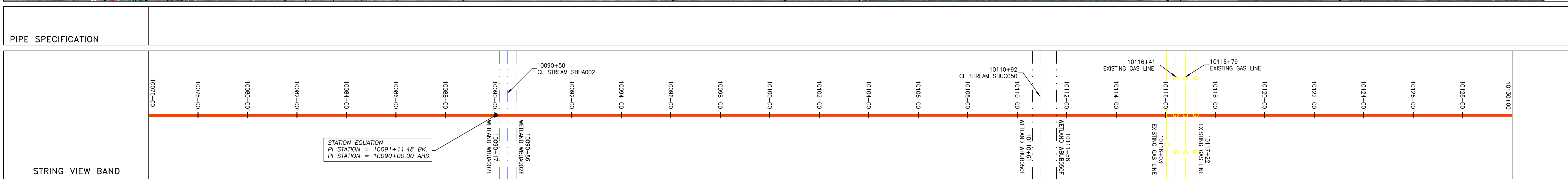
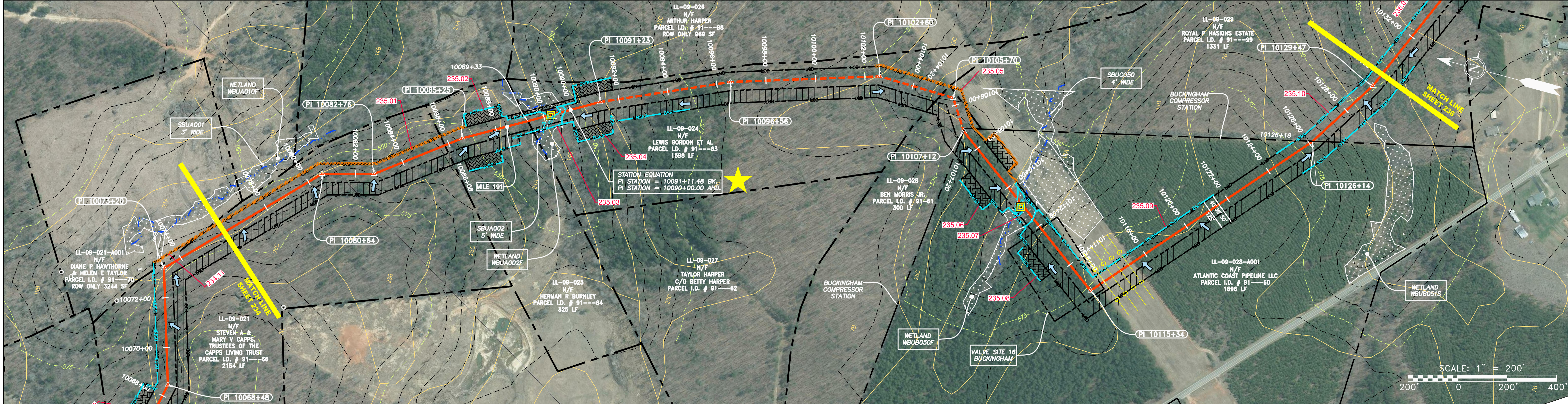


PROPERTY OWNERSHIP

LL-09-021 N/F STEVEN A & MARY V CAPPS, TRUSTEES OF THE CAPPS LIVING TRUST PARCEL I.D. # 91---66 2154 LF	LL-09-023 N/F HERMAN R BURNLEY PARCEL I.D. # 91---64 325 LF	LL-09-026 N/F ARTHUR HARPER PARCEL I.D. # 91---98 ROW ONLY 969 SF	LL-09-024 N/F LEWIS GORDON ET AL PARCEL I.D. # 91---63 1598 LF	LL-09-028 N/F BEN MORRIS JR. PARCEL I.D. # 91-61 300 LF	LL-09-028-A001 N/F ATLANTIC COAST PIPELINE LLC PARCEL I.D. # 91---60 1896 LF	LL-09-029 N/F ROYAL P HASKINS ESTATE PARCEL I.D. # 91---99 1331 LF
--	---	---	--	---	--	--



LEGEND

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

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 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.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

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

Professional Engineer
 Daniel R. Goldstein
 Lic. No. 047436

SCALE: AS SHOWN
 DATE: 3/24/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E235

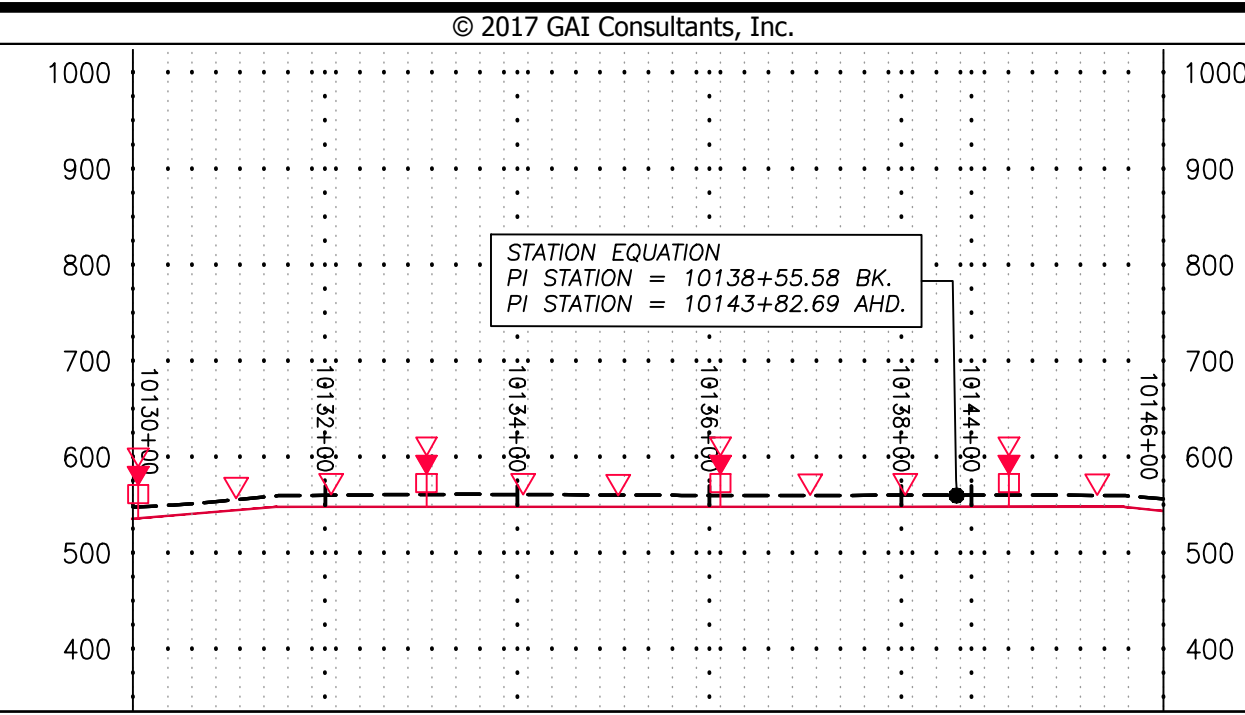
23 OF 344

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 4\SEC 4 SHEETS - 234-239 (27-31).DWG

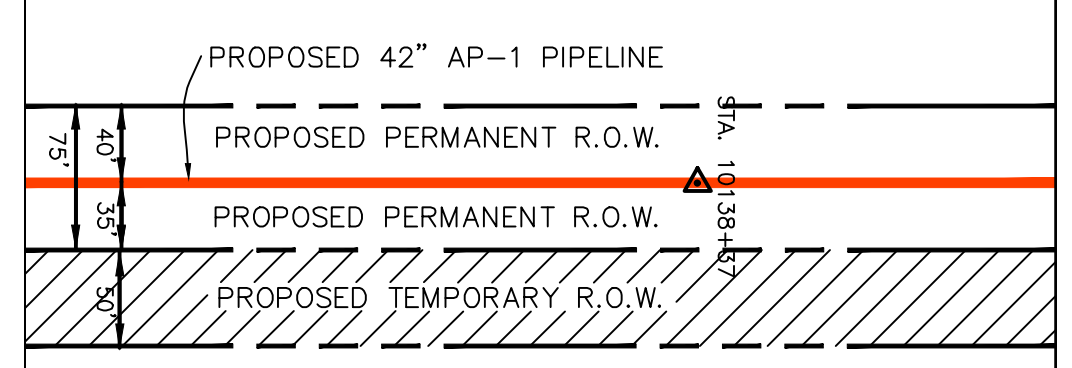
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NOTE:
STATIONING SHOWN ON THE
DRAWING IS BASED ON
SLOPE MEASUREMENTS.

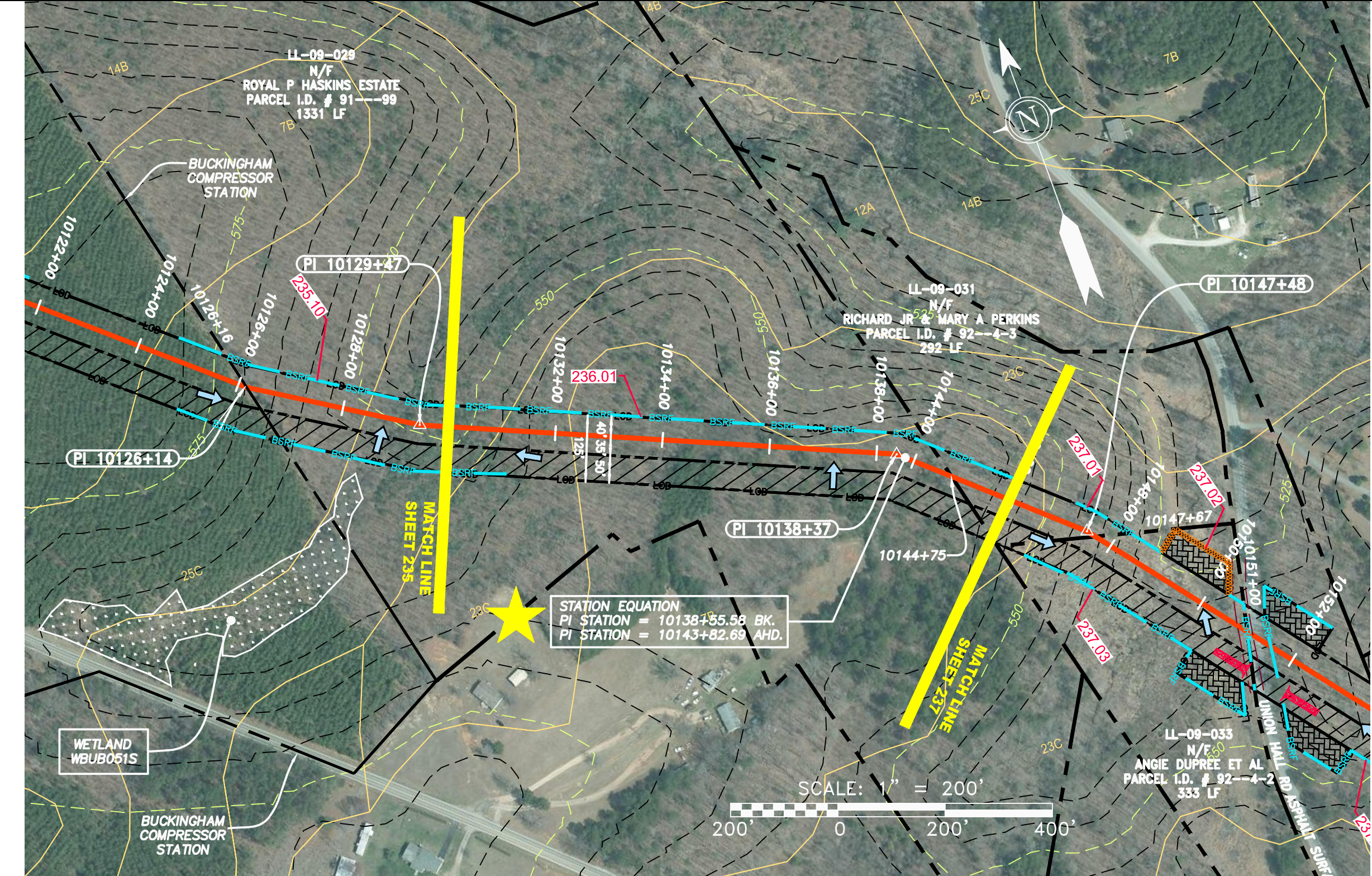
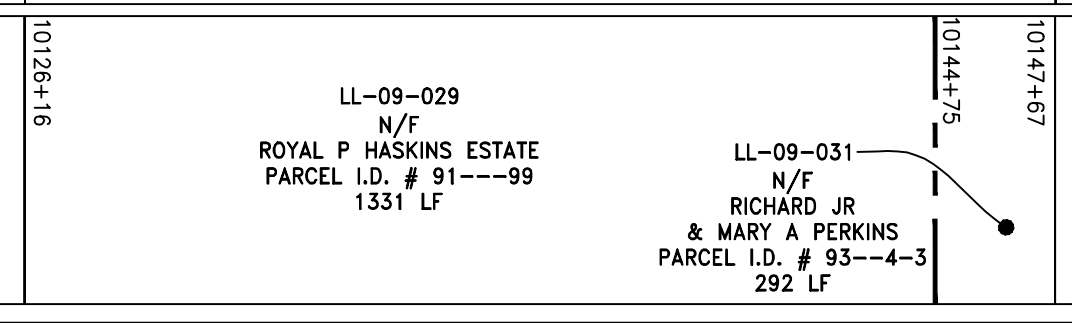
PROFILE VIEW
HORZ: 1" = 200'
VERT: 1" = 200'



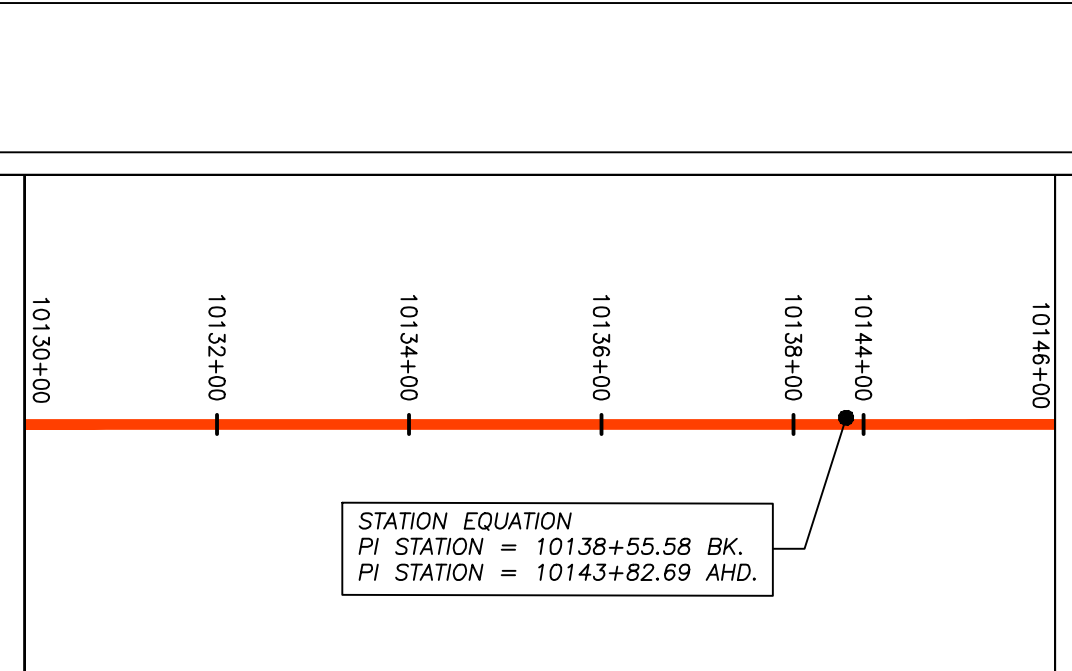
STATIONING &
CONSTRUCTION LIMITS



PROPERTY OWNERSHIP



PIPE SPECIFICATION



STRING VIEW BAND

LEGEND

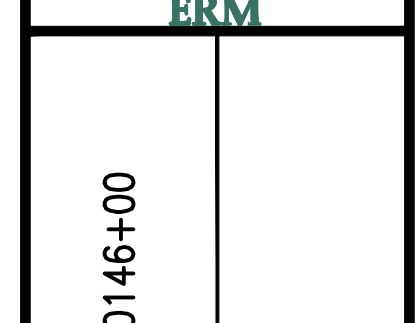
— X — X —	PROPERTY LINE	— E —	STORM SEWER	▨	EXTRA WORK SPACE	▨	TOPSOIL SEGREGATION AREA	▽	PERMANENT WATERBAR/SLOPE BREAKER	— LOD —	LIMIT OF DISTURBANCE
— W —	FENCE	— W —	UNDERGROUND ELECTRIC	▨	AREA OF NO DISTURBANCE	▨	PROPOSED TEMPORARY R.O.W.	▽	TEMPORARY WATERBAR/SLOPE BREAKER	— BSRF —	BELTED SILT RETENTION FENCE (BSRF)
— G — G —	STREAM	— S —	WATER LINE	▨	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	○	UTILITY POLE	▽	TRENCH BREAKER/PLUG	— C —	COMPOST FILTER SOCK
— OH —	EXISTING GAS PIPELINE	— S —	SANITARY SEWER	▨	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	—		▽	STREAM CROSSING	— C 111.03 —	SEDIMENT BARRIER IDENTIFICATION
—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL					▽	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	— C 111.001 —	CULVERT IDENTIFICATION
—	PROPOSED GAS PIPELINE	—	PROPOSED PERMANENT EASEMENT					▽	SEEP	—	ORANGE SAFETY FENCE
—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	—	PROPOSED PERMANENT EASEMENT					▽	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, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).

NO.	DATE	BY	CHKD.	APPVD.	DESCRIPTION



42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 10130+00 TO 10146+00
BUCKINGHAM COUNTY, VIRGINIA

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

SCALE: AS SHOWN
DATE: 3/24/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET

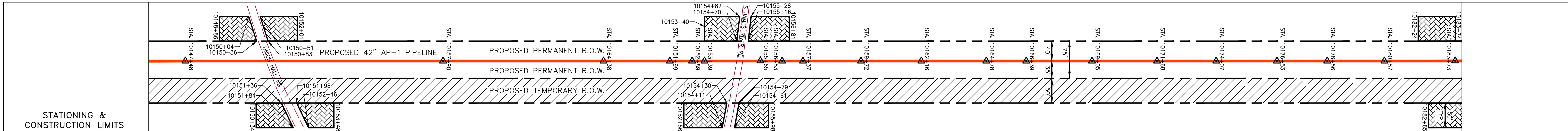
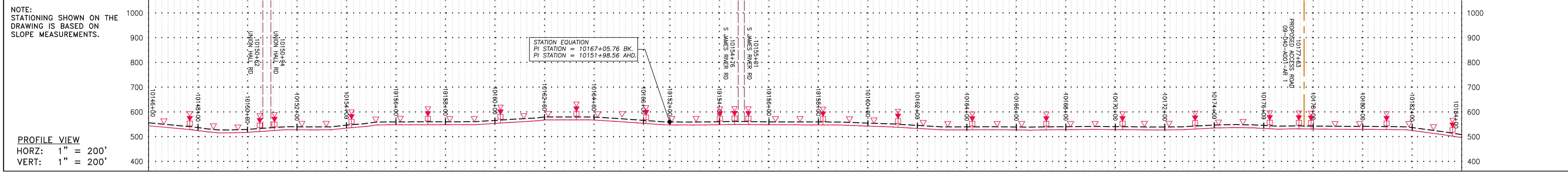


PROJECT NO./DASH NO. 140468

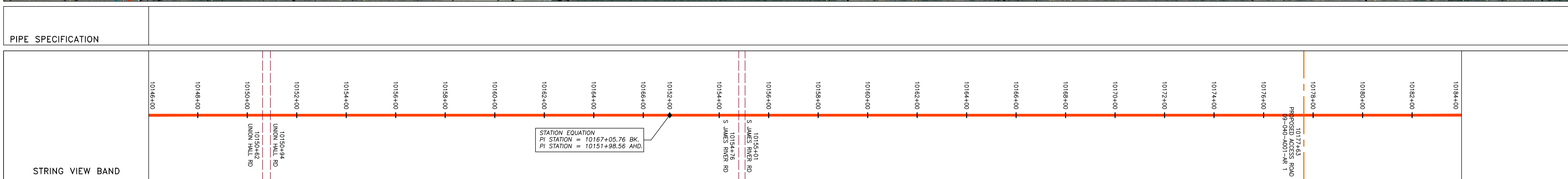
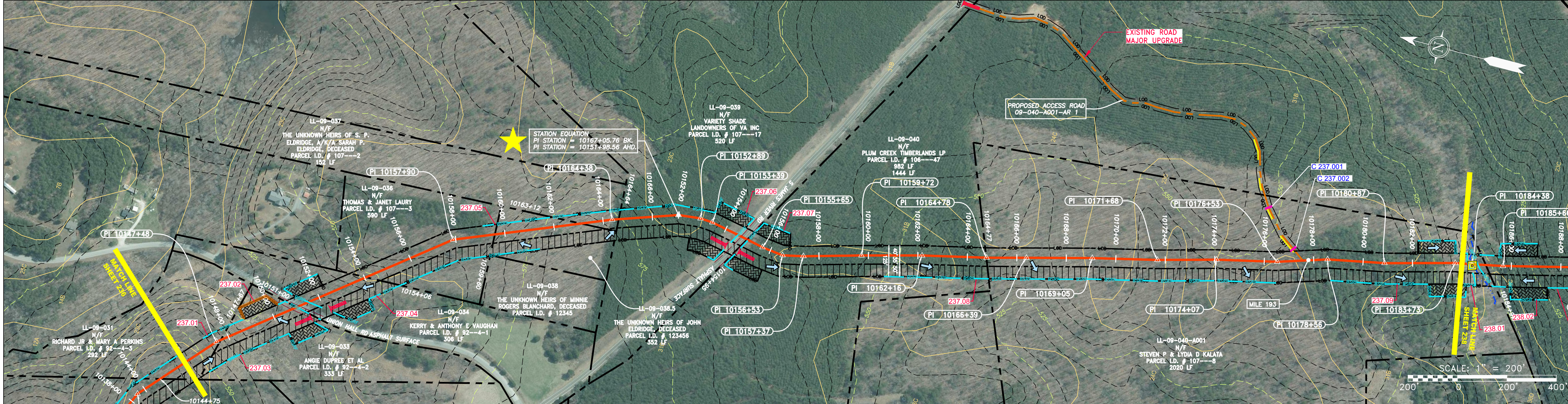
TASK NO.	SUB TASK NO.
005	00

GROUP ID D DRAWING NO. E236

236 OF 344



Property ID	Owner Name	Parcel I.D.	Area (LF)
LL-09-031	RICHARD JR & MARY A PERKINS	# 92--4-3	292 LF
LL-09-033	ANGIE DUPREE ET AL	# 92--4-2	333 LF
LL-09-034	KERRY & ANTHONY E VAUGHAN	# 92--4-1	306 LF
LL-09-036	THOMAS & JANET LAURY	# 107--3	590 LF
LL-09-038.5	THE UNKNOWN HEIRS OF JOHN ELDRIDGE, DECEASED	# 123456	352 LF
LL-09-037	THE UNKNOWN HEIRS OF S. P. ELDRIDGE, DECEASED	# 107--2	124 LF
LL-09-039	VARIETY SHADE LANDOWNERS OF VA INC	# 107--17	520 LF
LL-09-040	PLUM CREEK TIMBERLANDS LP	# 106--47	982 LF
LL-09-040-A01	STEVEN P & LYDIA D KALATA	# 107--8	2020 LF



LEGEND

	PROPERTY LINE		STORM SEWER		EXTRA WORK SPACE
	FENCE		UNDERGROUND ELECTRIC		TOPSOIL SEGREGATION AREA
	STREAM		WATER LINE		AREA OF NO DISTURBANCE
	EXISTING GAS PIPELINE		SANITARY SEWER		PROPOSED TEMPORARY R.O.W.
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
	ACCESS ROAD		PROPOSED PERMANENT EASEMENT		UTILITY POLE
	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).	

	PERMANENT WATERBAR/SLOPE BREAKER		LIMIT OF DISTURBANCE
	TEMPORARY WATERBAR/SLOPE BREAKER		BELTED SILT RETENTION FENCE (BSRF)
	TRENCH BREAKER/PLUG		COMPOSITE FILTER SOCK
	STREAM CROSSING		SEDIMENT BARRIER IDENTIFICATION
	USFS STREAM CROSSING WITH ENHANCED CONTROLS		CULVERT IDENTIFICATION
	ORANGE SAFETY FENCE		ROADSIDE DITCH
	SLOP		SOIL TYPE
	SLOPE DIRECTION		TYPICAL BIG SLOPE CATEGORY
	CULVERT AS NEEDED		CULVERT INFLOW
	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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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

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

CONSTRUCTION ALIGNMENT STA 10146+00 TO 10184+00
 BUCKINGHAM COUNTY, VIRGINIA

SCALE: AS SHOWN
 DATE: 3/24/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

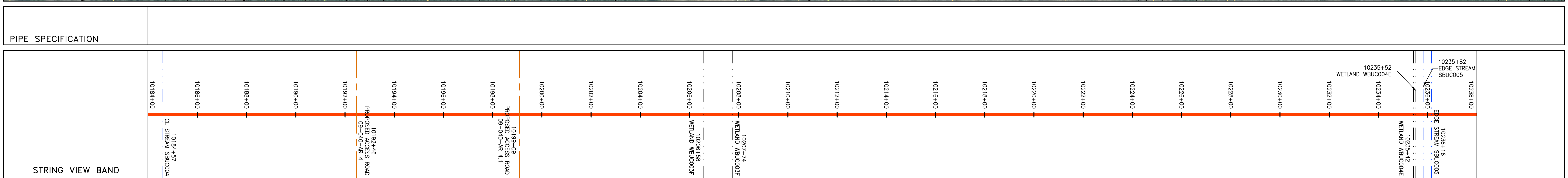
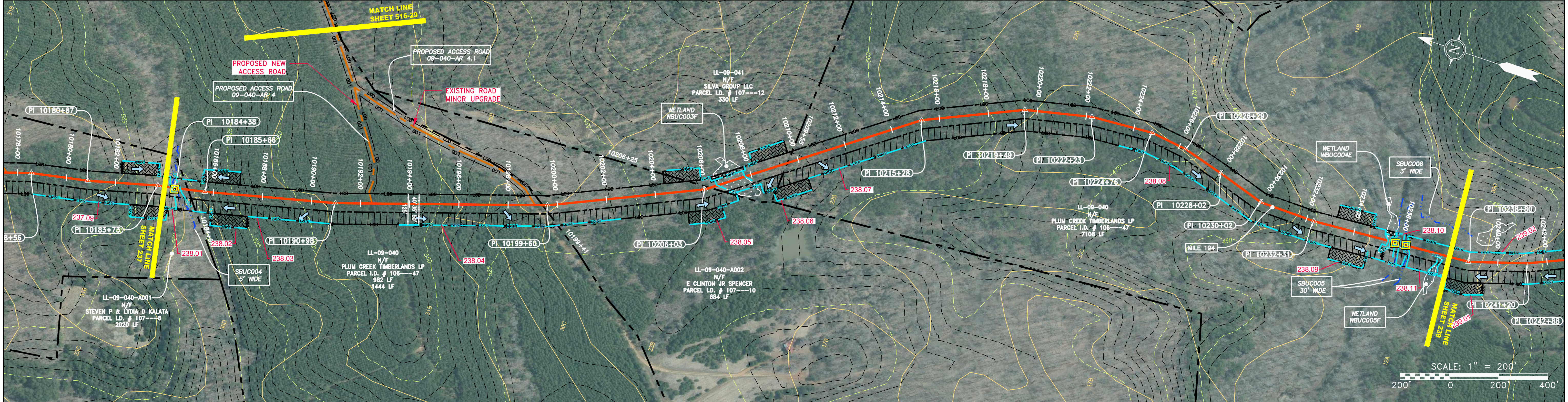
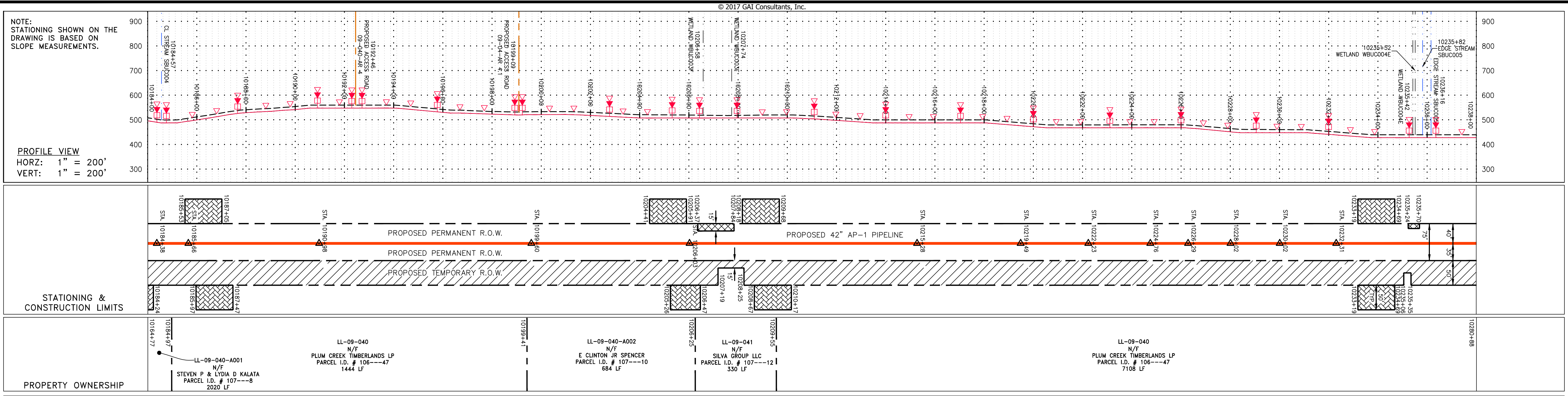
gai consultants

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 E237
23 OF 344	

GAI CAD FILE NO. R:\050-5159 - GAI - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 4\SEC 4 SHEETS - 234-239 (27-31).DWG

GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 4\SEC 4 - SHEETS - 234-239 (27-31).DWG



LEGEND	
	PROPERTY LINE
	FENCE
	STREAM
	EXISTING GAS PIPELINE
	OVERHEAD UTILITY LINES
	ACCESS ROAD
	PROPOSED GAS PIPELINE
	STORM SEWER
	UNDERGROUND ELECTRIC
	WATER LINE
	SANITARY SEWER
	EDGE OF GRAVEL
	PROPOSED PERMANENT EASEMENT
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
	EXTRA WORK SPACE
	AREA OF NO DISTURBANCE
	WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)
	TOPSOIL SEGREGATION AREA
	PROPOSED TEMPORARY R.O.W.
	UTILITY POLE
	PERMANENT WATERBAR/SLOPE BREAKER
	TEMPORARY WATERBAR/SLOPE BREAKER
	TRENCH BREAKER/PLUG
	STREAM CROSSING
	USFS WATER CROSSING WITH ENHANCED CONTROLS
	SLOPEWALL
	SLOPE DIRECTION
	CONSTRUCTION ENTRANCE WITH DITCH
	CULVERT AS NEEDED
	CULVERT WATERBAR
	LOD
	BSRF
	111.03 SEDIMENT BARRIER IDENTIFICATION
	C 111.001 SEDIMENT BARRIER IDENTIFICATION
	ORANGE SAFETY FENCE
	ROADSIDE DITCH
	SOIL TYPE
	TYPICAL BIG SLOPE CATEGORY
	SLOPE INCLINATION

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 GIA CONSULTANTS, INC FROM 11-03-2014 THRU 11-07-2014.
3.	IMAGERY TAKEN FROM GOOGLE EARTH.
4.	THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GIA CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
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REVISIONS					
NO.	DATE	BY	CHKD.	APPVD.	DESCRIPTION

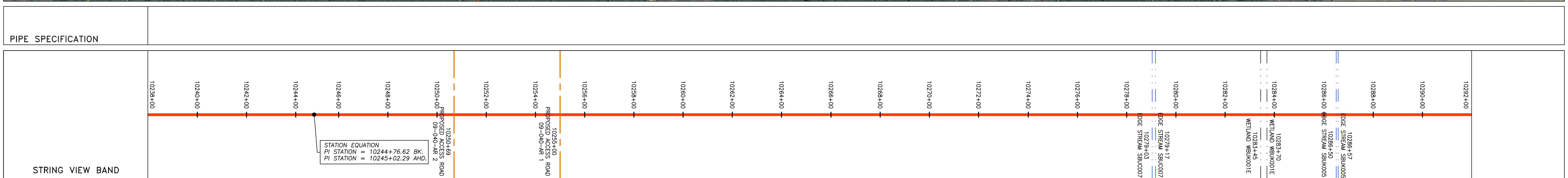
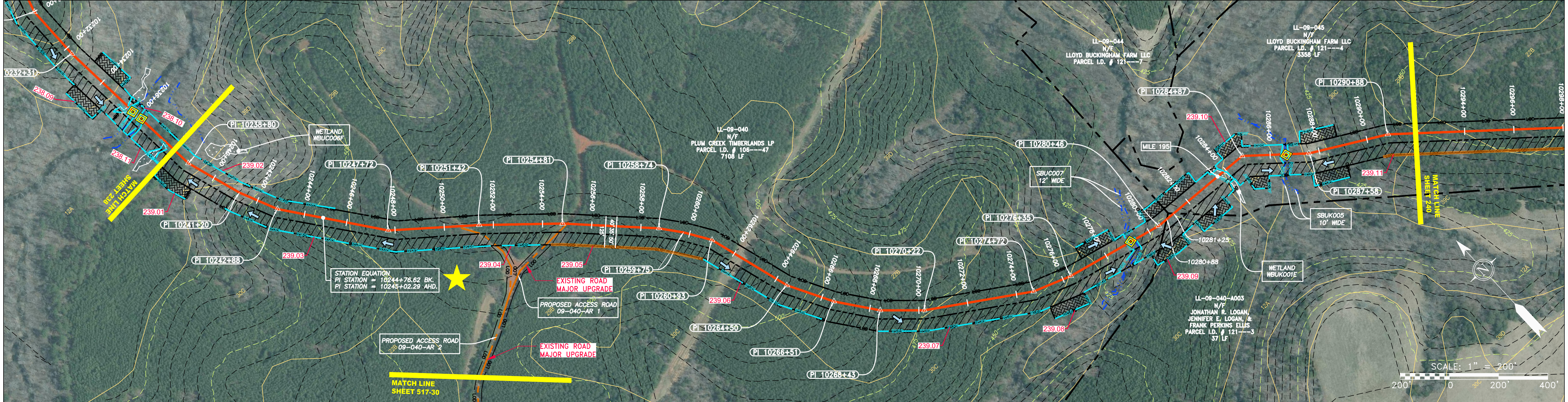
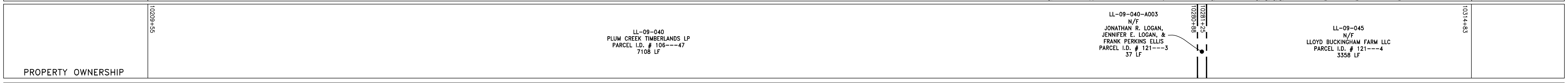
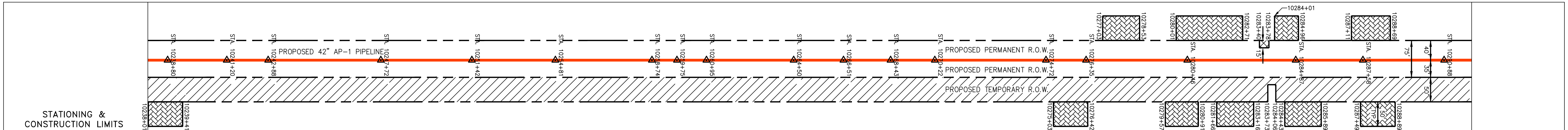
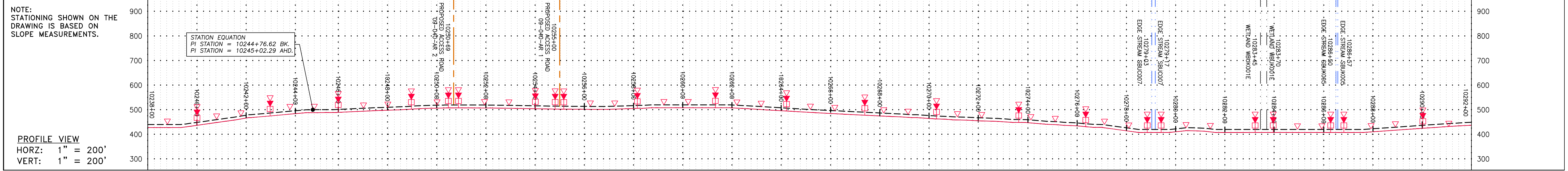
DANIEL R. GOLDSTEIN
 PROFESSIONAL ENGINEER

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 10184+00 TO 10238+00
 BUCKINGHAM COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	3/24/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

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

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E238
238 OF 344	



LEGEND

— X — X —	PROPERTY LINE	— E —	STORM SEWER	[Hatched Box]	EXTRA WORK SPACE	— LOD —	LIMIT OF DISTURBANCE
— W —	FENCE	— W —	UNDERGROUND ELECTRIC	[Dotted Box]	TOPSOIL SEGREGATION AREA	— BSRF —	BELTED SILT RETENTION FENCE (BSRF)
— G —	STREAM	— SAN —	WATER LINE	[Cross-hatched Box]	PROPOSED TEMPORARY R.O.W.	— C 111.03 —	COMPOST FILTER SOCK
— OH —	EXISTING GAS PIPELINE	—	SANITARY SEWER	[Green Box]	UTILITY POLE	— X —	SEDIMENT IDENTIFICATION
—	OVERHEAD UTILITY LINES	—	EDGE OF GRAVEL	[Red Box]	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).	— C 111.001 —	CULVERT IDENTIFICATION
—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	[Blue Box]		—	ORANGE SAFETY FENCE
—	PROPOSED GAS PIPELINE	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Yellow Box]		—	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.
- 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 MATTEPP 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 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, 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. CORPS OF ENGINEERS.

REVISIONS

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 10238+00 TO 10292+00
 BUCKINGHAM COUNTY, VIRGINIA

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

SCALE: AS SHOWN
 DATE: 3/24/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

gai consultants

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

PROJECT NO./DASH NO.
140468

TASK NO. SUB TASK NO.
005 00

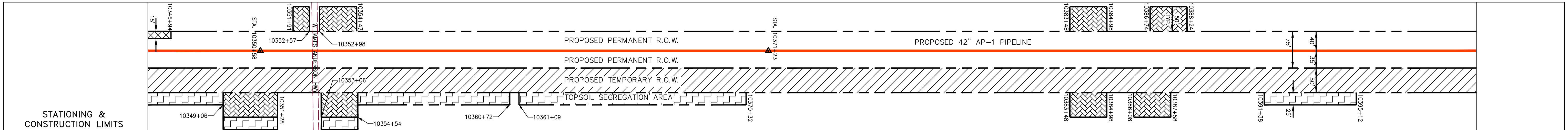
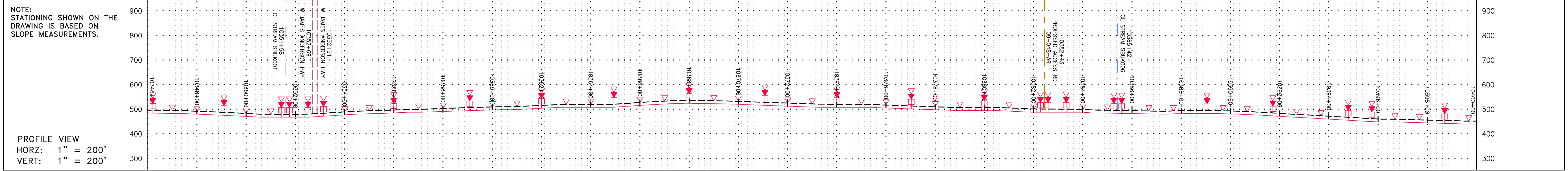
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239 OF 344

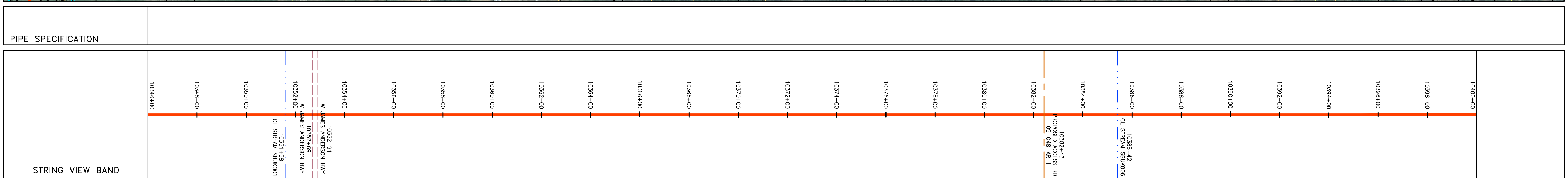
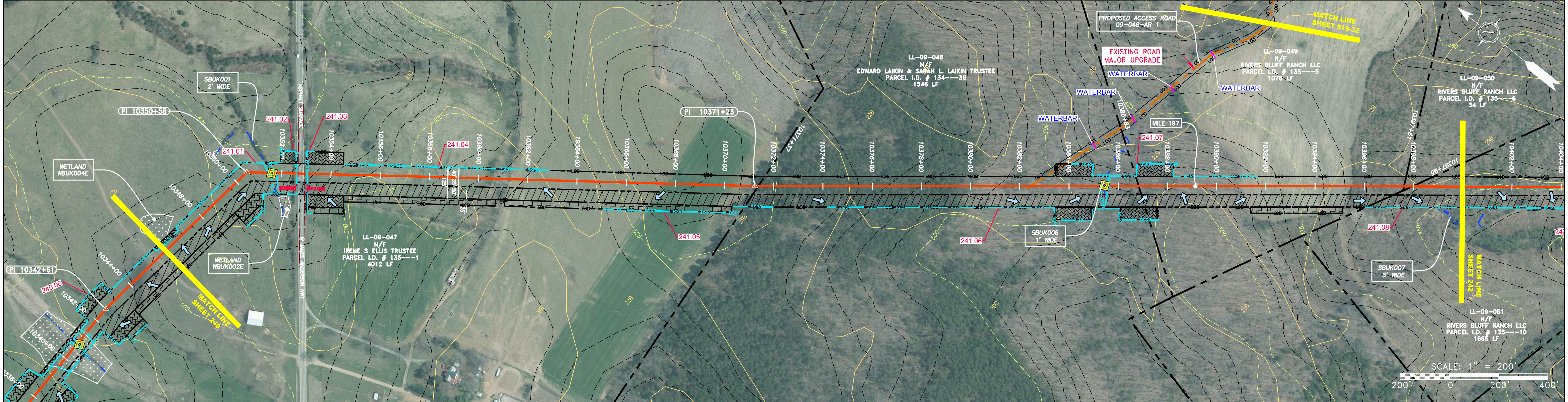
GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 4\SEC 4 SHEETS - 234-239 (27-31).DWG

GAI CAD FILE NO. \\\TTC-FS1\\THRASHER_050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\\SURVEY\\DRAWING\\SEC 4\\SEC 4 SHEETS - 240-244 (32-36).DWG

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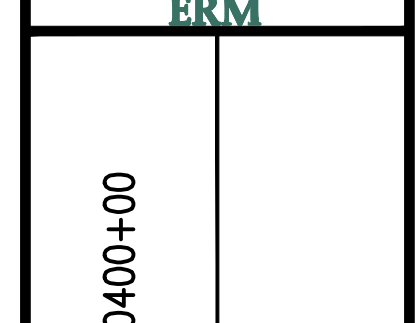


PROPERTY OWNERSHIP
LL-09-047 N/F IRENE S. ELLIS TRUSTEE PARCEL I.D. # 135---1 4012 LF
LL-09-048 N/F EDWARD LAIKIN & SARAH L. LAIKIN TRUSTEE PARCEL I.D. # 134---36 1546 LF
LL-09-049 N/F RIVERS BLUFF RANCH LLC PARCEL I.D. # 135---5 1078 LF
LL-09-050 N/F RIVERS BLUFF RANCH LLC PARCEL I.D. # 135---6 34 LF
LL-09-051 N/F RIVERS BLUFF RANCH LLC PARCEL I.D. # 135---10 1665 LF



LEGEND --- X --- X --- FENCE --- G --- G --- EXISTING GAS PIPELINE --- OH --- OH --- OVERHEAD UTILITY LINES --- --- PROPOSED GAS PIPELINE --- --- PROPOSED GAS PIPELINE (NO GROUND SURVEY) --- E --- E --- STORM SEWER --- W --- W --- UNDERGROUND ELECTRIC --- SAN --- SAN --- WATER LINE --- SAN --- SAN --- SANITARY SEWER --- --- --- EDGE OF GRAVEL --- --- --- PROPOSED PERMANENT EASEMENT --- --- --- PROPOSED PERMANENT R.O.W. --- --- --- TOPSOIL SEGREGATION AREA --- --- --- AREA OF NO DISTURBANCE --- --- --- WETLAND --- --- --- UTILITY POLE --- --- --- 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 LIMITATION	▲ 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 WATERBAR ▲ LOD ▲ BSRF ▲ 111.03 ▲ C 111.001 ▲ A1 (E) ▲ 30-58%	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. 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. IMAGERY TAKEN FROM GOOGLE EARTH. 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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NO.	DATE	BY	CHKD.	APPVD.	DESCRIPTION

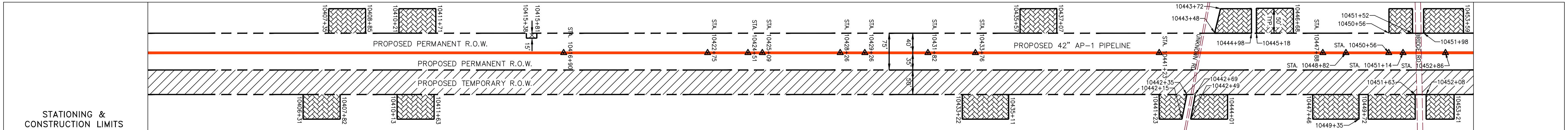
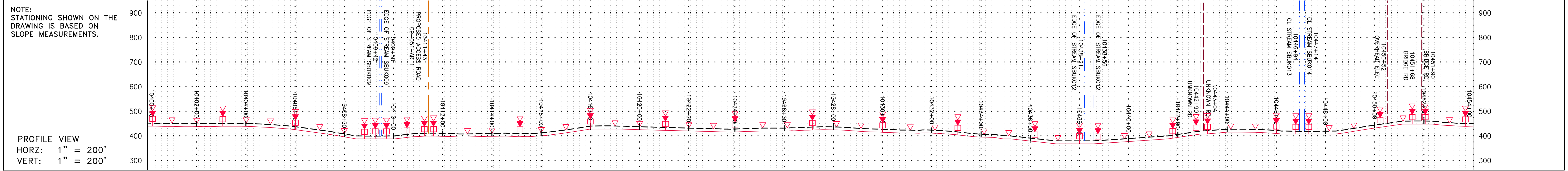


ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330
 BUCKINGHAM COUNTY, VIRGINIA
 CONSTRUCTION ALIGNMENT STA 10346+00 TO 10400+00
 42" AP-1 PIPELINE

SCALE: AS SHOWN
 DATE: 3/24/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

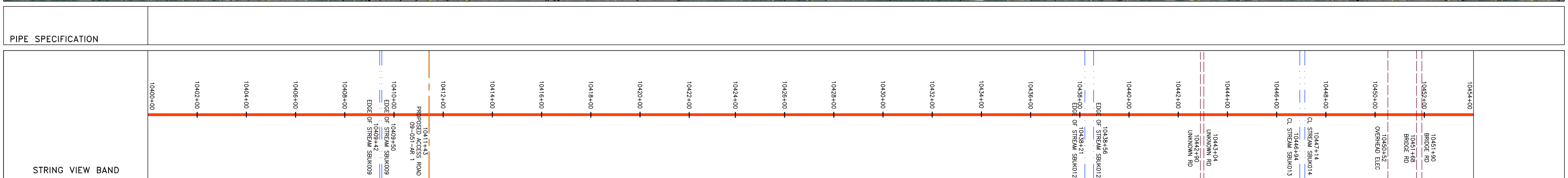
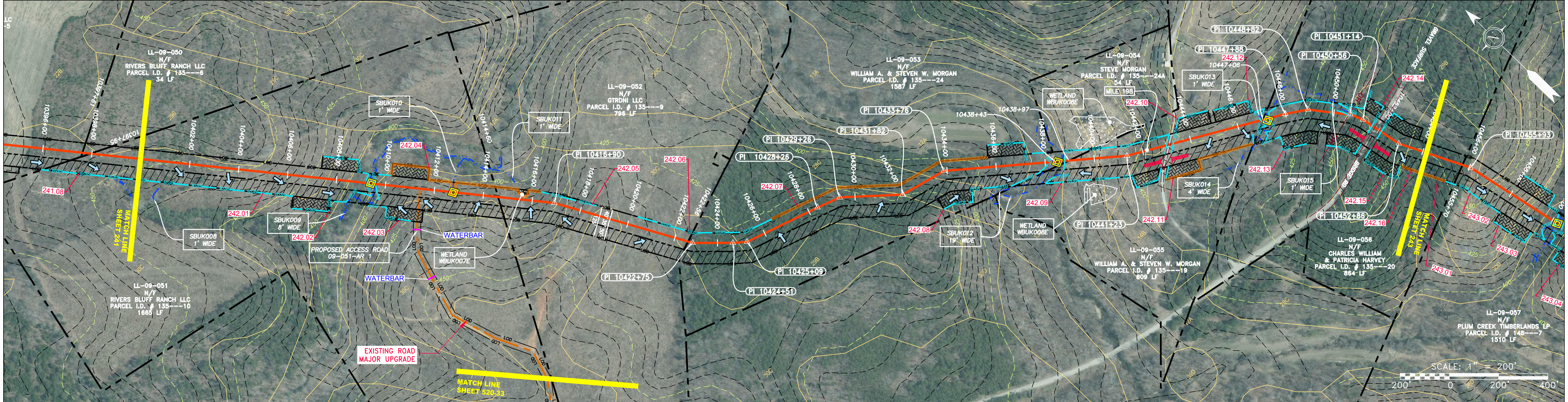


PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E241
241 OF 344	



PROPERTY OWNERSHIP table listing parcel numbers and owners:

10477+95	LL-09-051 N/F RIVERS BLUFF RANCH LLC PARCEL I.D. # 135---10 1665 LF	10414+60	LL-09-052 N/F GTRDNI LLC PARCEL I.D. # 135---9 796 LF	10422+56	LL-09-053 N/F WILLIAM A. & STEVEN W. MORGAN PARCEL I.D. # 135---24 1587 LF	10438+97	LL-09-054 N/F STEVE MORGAN PARCEL I.D. # 135---24A 54 LF	10447+08	LL-09-055 N/F WILLIAM A. & STEVEN W. MORGAN PARCEL I.D. # 135---19 809 LF	10455+70	LL-09-056 N/F CHARLES WILLIAM & PATRICIA HARVEY PARCEL I.D. # 135---20 864 LF
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LEGEND table defining symbols for property lines, fences, streams, gas pipelines, storm sewers, water lines, wetlands, and easements.

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

NOTES table detailing technical specifications and construction requirements.

1.	COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US 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.
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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.
9.	BEST MANAGEMENT PRACTICES (BMP) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.
10.	EROSION CONTROL MATTING SHALL BE PLACED IN AREAS OF 30% SLOPE AND GREATER, WHICH ARE INDICATED ON THE BEST IN CLASS STEEP SLOPES 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.
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13.	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.

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 MANAGEMENT PRACTICES (BMP) 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.

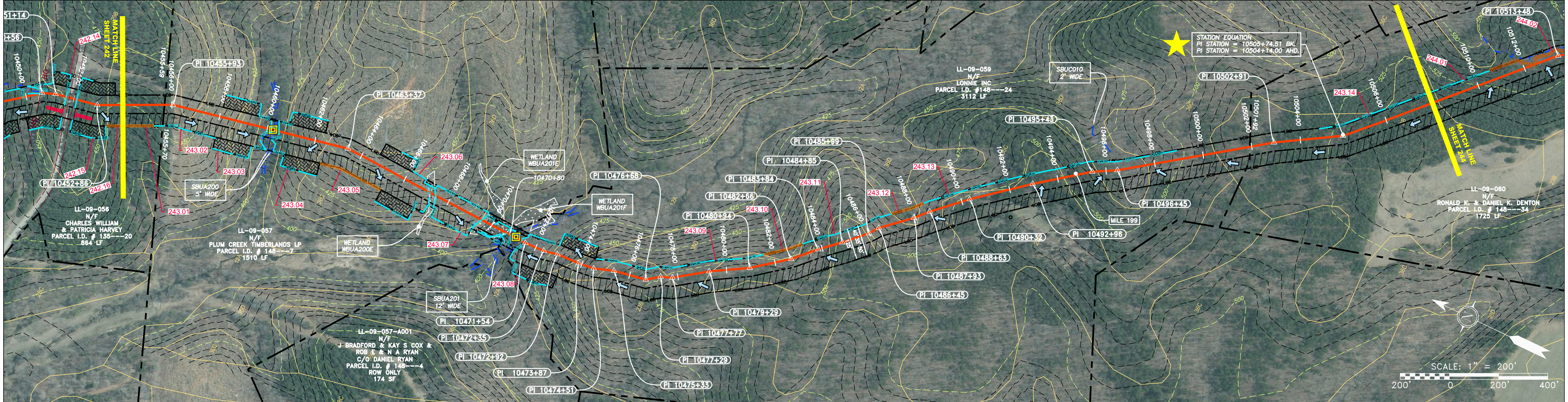
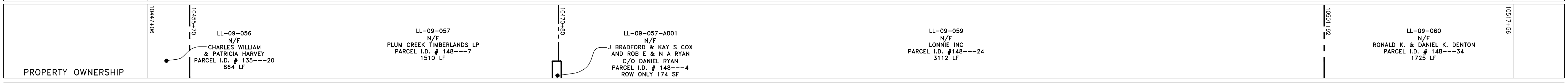
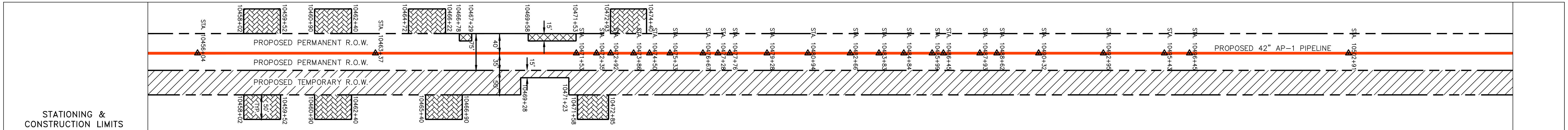
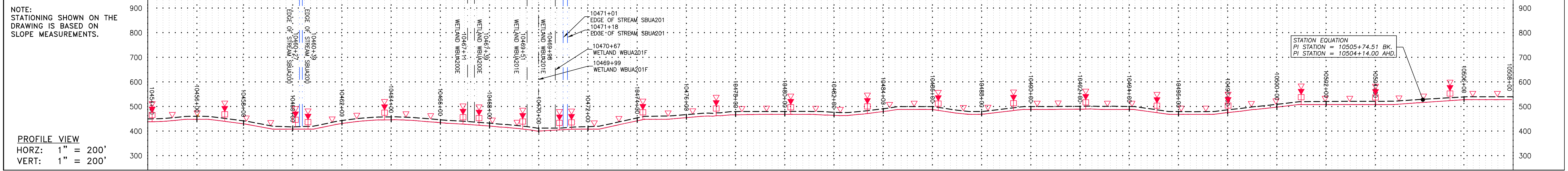
REVISIONS table with columns for NO., DATE, DWN., CHKD., APPVD., and DESCRIPTION.

NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION

Professional Engineer seal for Daniel R. Goldstein, License No. 047436, State of Virginia. Includes the ERM logo.

Project information for Atlantic Coast Pipeline, LLC, including construction alignment from station 10400+00 to 10454+00, scale (AS SHOWN), date (3/24/17), and drawing number (E242).

GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - MAPPING\SURVEY\DRAWING\SEC 4\SEC 4 - SHEETS - 240-244 (32-36).DWG

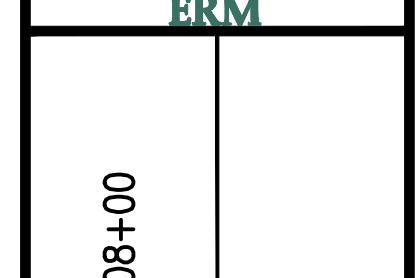


PIPE SPECIFICATION
42" AP-1 PIPELINE



<p>LEGEND</p> <p>— X — X — PROPERTY LINE</p> <p>— E — FENCE</p> <p>— G — STREAM</p> <p>— G — EXISTING GAS PIPELINE</p> <p>— OH — OVERHEAD UTILITY LINES</p> <p>— — — ACCESS ROAD</p> <p>— — — PROPOSED GAS PIPELINE</p> <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>— — — PROPOSED PERMANENT EASEMENT</p> <p>— — — PROPOSED GAS PIPELINE (NO GROUND SURVEY)</p>	<p>EXTRA WORK SPACE</p> <p>AREA OF NO DISTURBANCE</p> <p>WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)</p> <p>TOPSOIL SEGREGATION AREA</p> <p>PROPOSED TEMPORARY R.O.W.</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>ORANGE SAFETY FENCE</p> <p>ROADSIDE DITCH</p> <p>SOIL TYPE</p> <p>TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION</p>	<p>NOTES:</p> <p>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.</p> <p>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.</p> <p>3. IMAGERY TAKEN FROM GOOGLE EARTH.</p> <p>4. STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.</p> <p>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.</p> <p>6. ALL STATIONING SHOWN IS SLOPE STATIONING.</p> <p>7. SILT FENCE AND FILTER SOCK SHALL BE INSTALLED PARALLEL TO CONTOUR TO EXTENT PRACTICABLE IN ACCORDANCE WITH STANDARD DETAIL.</p> <p>8. BEST IN CLASS (BIC) STEEP SLOPE CATEGORY INFORMATION CAN BE FOUND IN THE APPENDIX OF THE STORMWATER POLLUTION PREVENTION PLAN.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION



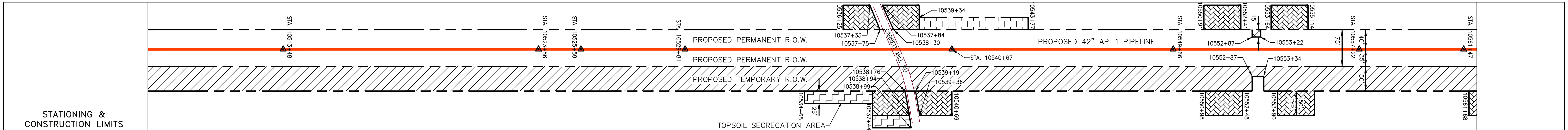
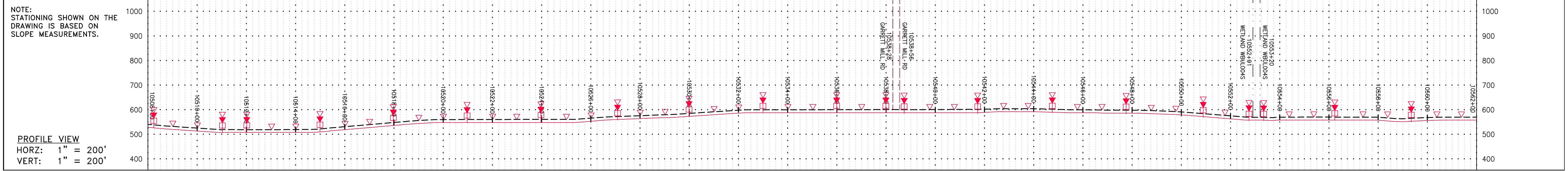
42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 10454+00 TO 10508+00
BUCKINGHAM COUNTY, VIRGINIA
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
DATE: 3/24/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET

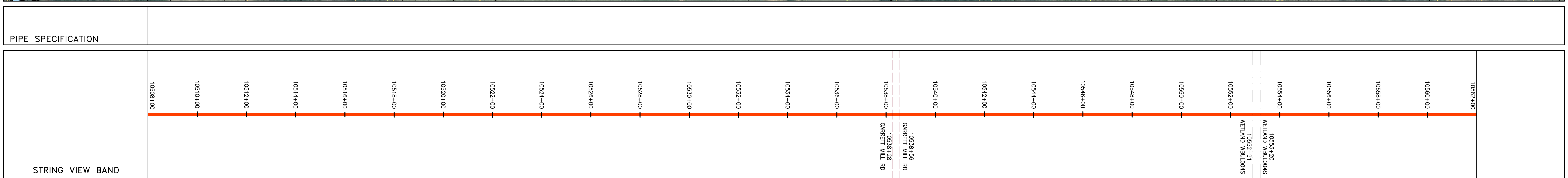
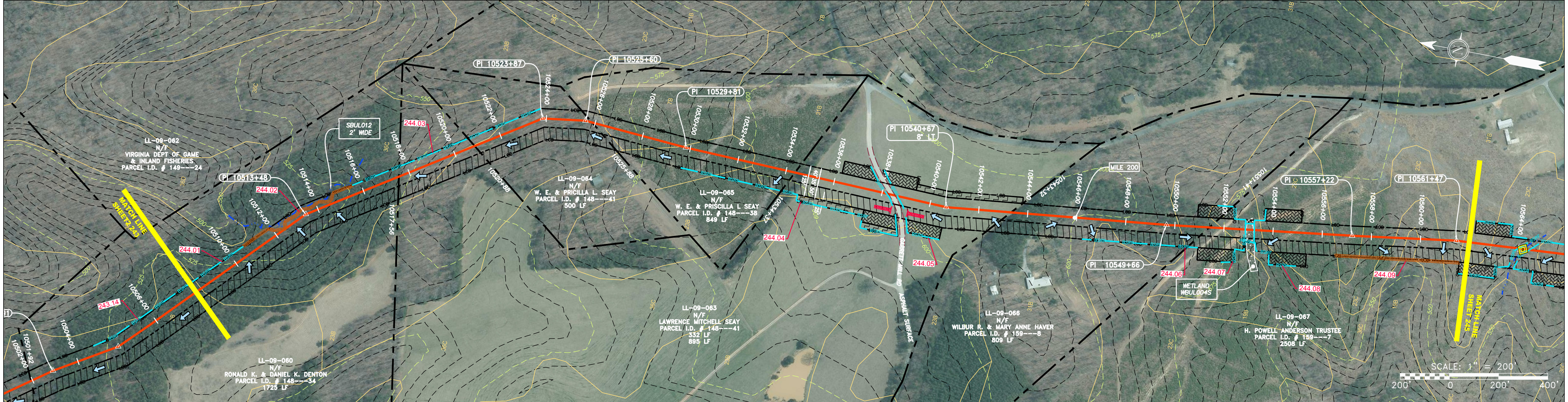


PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E243
243 OF 344	

GAI CAD FILE NO. \\\GTC-FS1\THRASHER\050-5159 - GAI, INC. - SERP - MAPPING\SURVEY DRAWING\SEC 4\SEC 4 SHEETS - 240-244 (32-36).DWG



Stationing	Property Ownership
10528+00	LL-09-060 N/F RONALD K & DANIEL K DENTON PARCEL I.D. # 148---34 1725 LF
10529+00	LL-09-063 N/F LAWRENCE MITCHELL SEAY PARCEL I.D. # 148---41 332 LF
10530+00	LL-09-064 N/F W. E. & PRICILLA L. SEAY PARCEL I.D. # 148---41 500 LF
10531+00	LL-09-065 N/F W. E. & PRICILLA L. SEAY PARCEL I.D. # 148---38 849 LF
10532+00	LL-09-063 N/F LAWRENCE MITCHELL SEAY PARCEL I.D. # 148---41 895 LF
10533+00	LL-09-066 N/F WILBUR R. & MARY ANNE HAVER PARCEL I.D. # 159---8 809 LF
10534+00	LL-09-067 N/F H. POWELL ANDERSON TRUSTEE PARCEL I.D. # 159---7 2508 LF



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 WITH ENHANCED CONTROLS	USFS CROSS CUTTING WITH ENHANCED CONTROLS
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	SLOPE DIRECTION	CONSTRUCTION ENTRANCE WITH DITCH
		CULVERT WATERBAR	LOD
			BSRF
			SEDIMENT BARRIER IDENTIFICATION
			ORANGE SAFETY FENCE
			ROADSIDE DITCH
			SOIL TYPE
			TYPICAL BIG SLOPE CATEGORY
			SLOPE INCLUSION

- NOTES:**
- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, U.S. 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 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.
 - THE CONSTRUCTION RIGHT-OF-WAY WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.4.5 FEDERAL ENERGY REGULATORY COMMISSION (FERC) UPLAND EROSION CONTROL, REVEGETATION, 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.

REVISIONS

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

42" AP-1 PIPELINE
CONSTRUCTION ALIGNMENT STA 10508+00 TO 10562+00
 BUCKINGHAM COUNTY, VIRGINIA

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

SCALE: AS SHOWN
 DATE: 3/24/17
 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 E244

244 OF 344

GAI CAD FILE NO. \ITG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 4\SEC 4 SHEETS - 240-244 (32-36).DWG