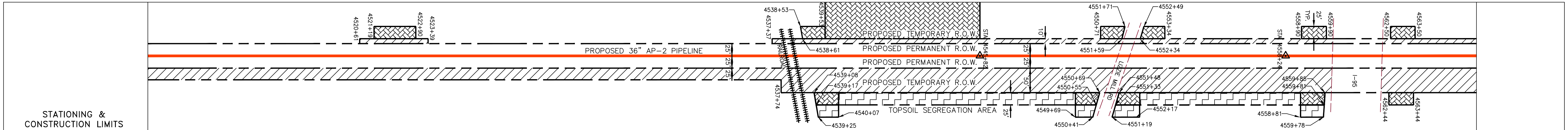
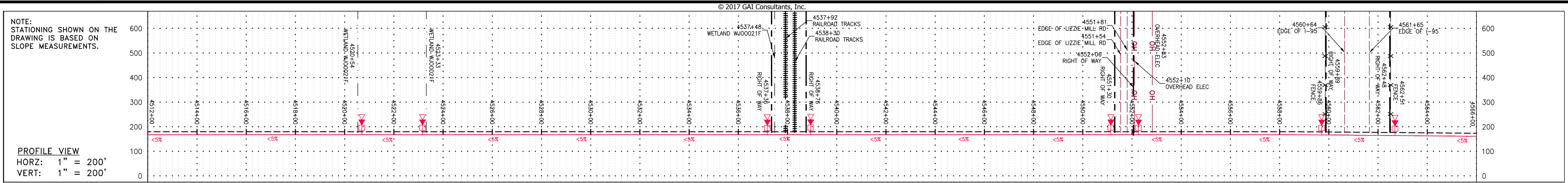
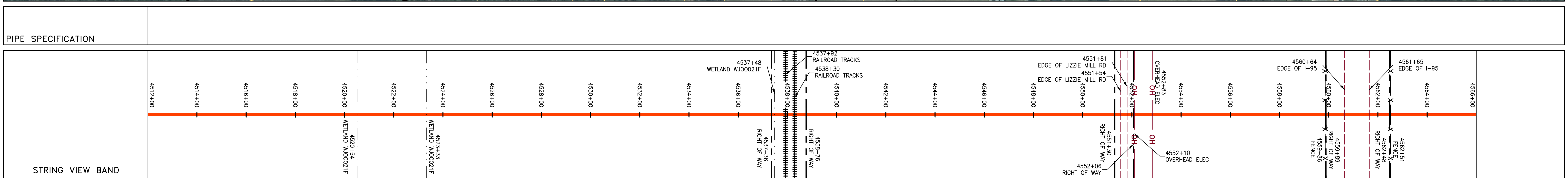
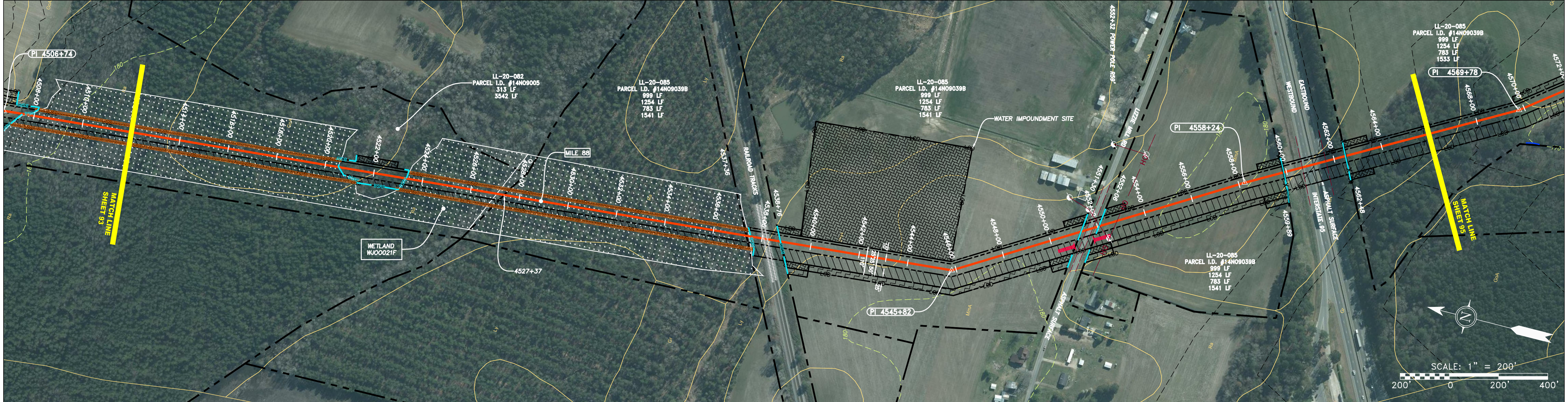


GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 10\SECT 10 SHEETS - 90-94 (26-30).DWG



PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-20-082 PARCEL I.D. #14N09005 3542 LF	4512+00 to 4527+37
LL-20-085 PARCEL I.D. #14N09039B 999 LF	4527+37 to 4539+25
LL-20-085 PARCEL I.D. #14N09039B 1254 LF	4539+25 to 4551+19
LL-20-085 PARCEL I.D. #14N09039B 783 LF	4551+19 to 4559+78
LL-20-085 PARCEL I.D. #14N09039B 1533 LF	4559+78 to 4566+00



LEGEND

PROPERTY LINE	UNDERGROUND ELECTRIC	EXTRA WORK SPACE	TOPSOIL SEGREGATION AREA
FENCE	WATER LINE	AREA OF NO DISTURBANCE	PROPOSED TEMPORARY R.O.W.
STREAM	SANITARY SEWER	WETLAND <small>(EDGE SHOWN TO PROVIDE CLARITY ONLY)</small>	UTILITY POLE
EXISTING GAS PIPELINE	EDGE OF GRAVEL	PERMANENT WATERBAR/SLOPE BREAKER	LIMIT OF DISTURBANCE
OVERHEAD UTILITY LINES	PROPOSED PERMANENT EASEMENT	TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
ACCESS ROAD	PROPOSED GAS PIPELINE (NO GROUND SURVEY)	TRENCH BREAKER/PLUG	COIR LOG
PROPOSED GAS PIPELINE		STREAM CROSSING	COMPOST FILTER SOCK
		USFWS STREAM CROSSING WITH ENHANCED CONTROLS	ORANGE SAFETY FENCE
		CONSTRUCTION ENTRANCE WITH DITCH	ROADSIDE DITCH
		CULVERT/WATERBAR	SOIL TYPE

NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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NO.	DATE	APPD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 4512+00 TO 4566+00
 JOHNSTON COUNTY, NORTH CAROLINA

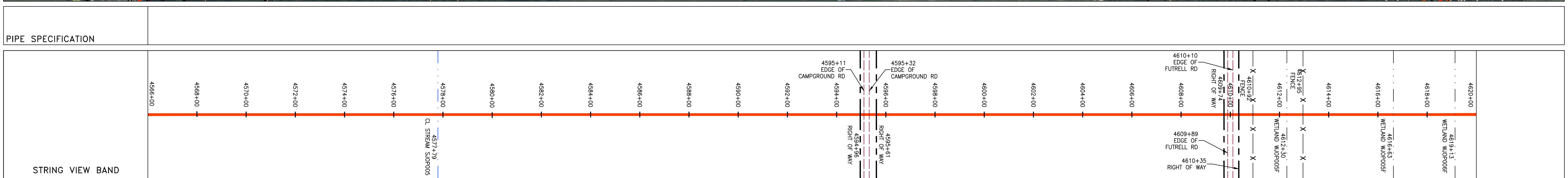
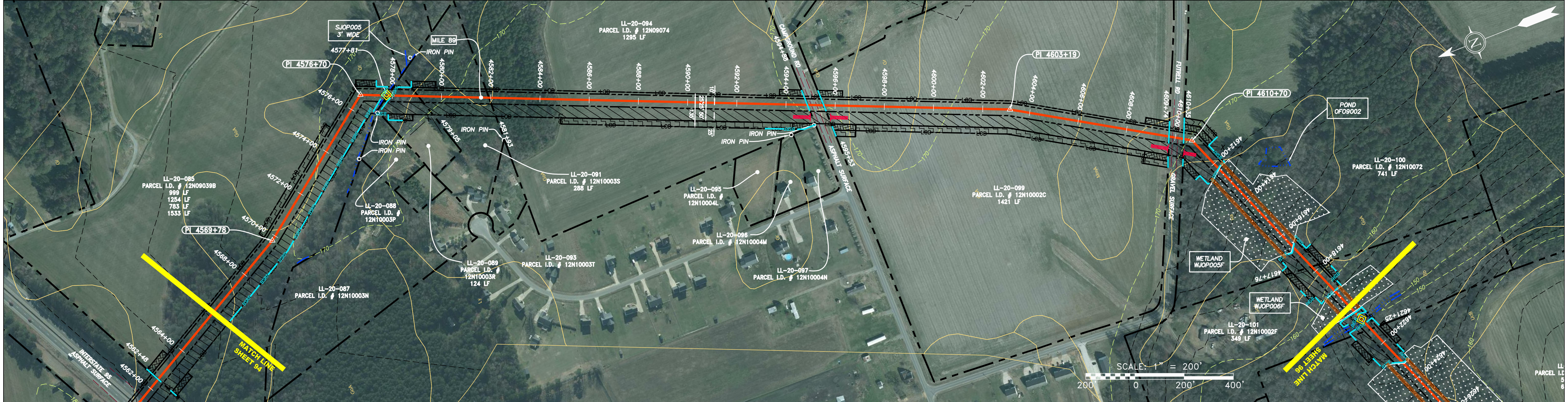
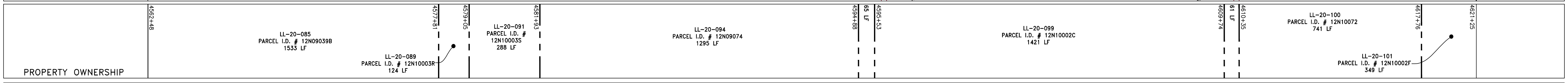
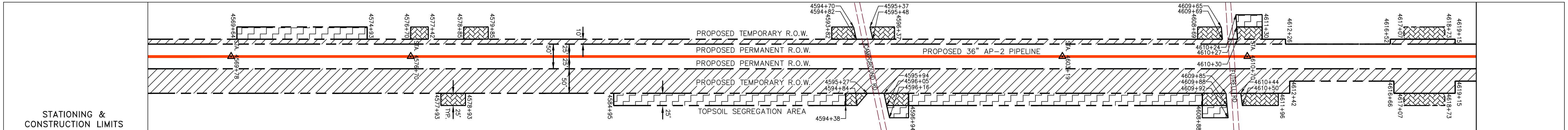
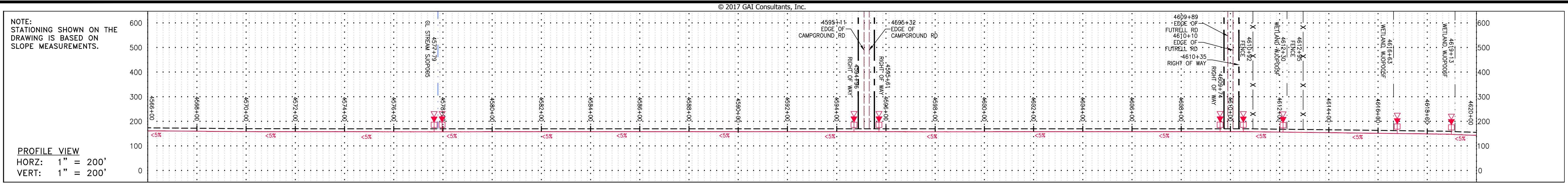
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #0269

PROJECT NO./DASH NO.	140468	
TASK NO.	005	00
GROUP ID	D	E094
94	OF	189

GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 10\SECT 10 SHEETS - 95-100 (31-35) - REROUTE 6-25-15.DWG



LEGEND	
	PROPERTY LINE
	FENCE
	STREAM
	EXISTING GAS PIPELINE
	OVERHEAD UTILITY LINES
	ACCESS ROAD
	PROPOSED GAS PIPELINE
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
	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
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
	CONSTRUCTION ENTRANCE WITH DITCH
	CULVERT/WATERBAR
	LIMIT OF DISTURBANCE
	BELTED SILT RETENTION FENCE (BSRF)
	COIR LOG
	COMPOST FILTER SOCK
	ORANGE SAFETY FENCE
	ROADSIDE DITCH
	SOIL TYPE

NOTES:

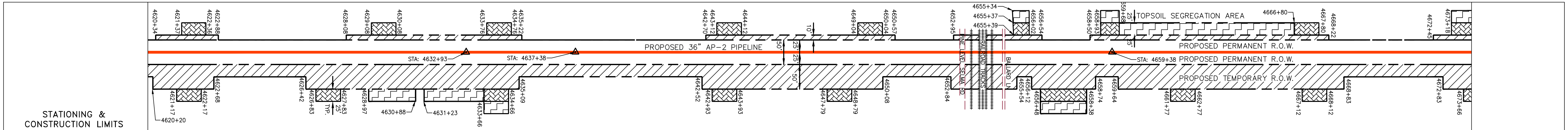
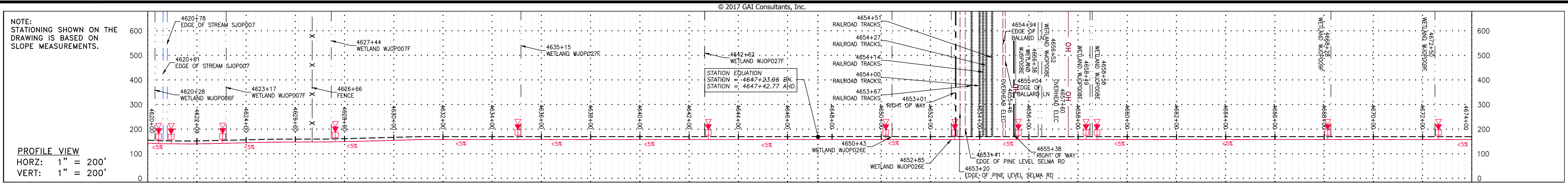
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REVISIONS		DESCRIPTION
NO.	DATE	DWN.

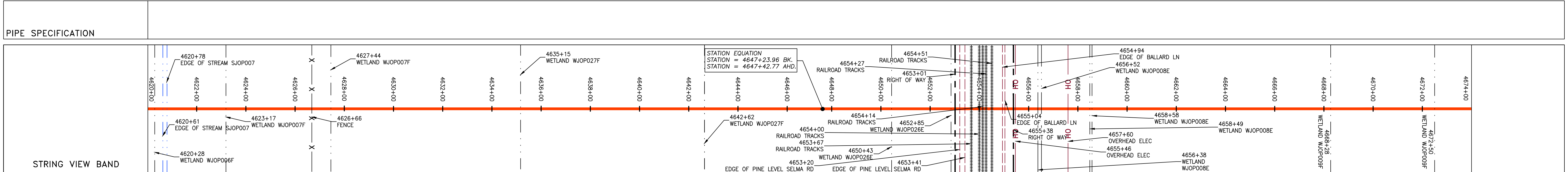
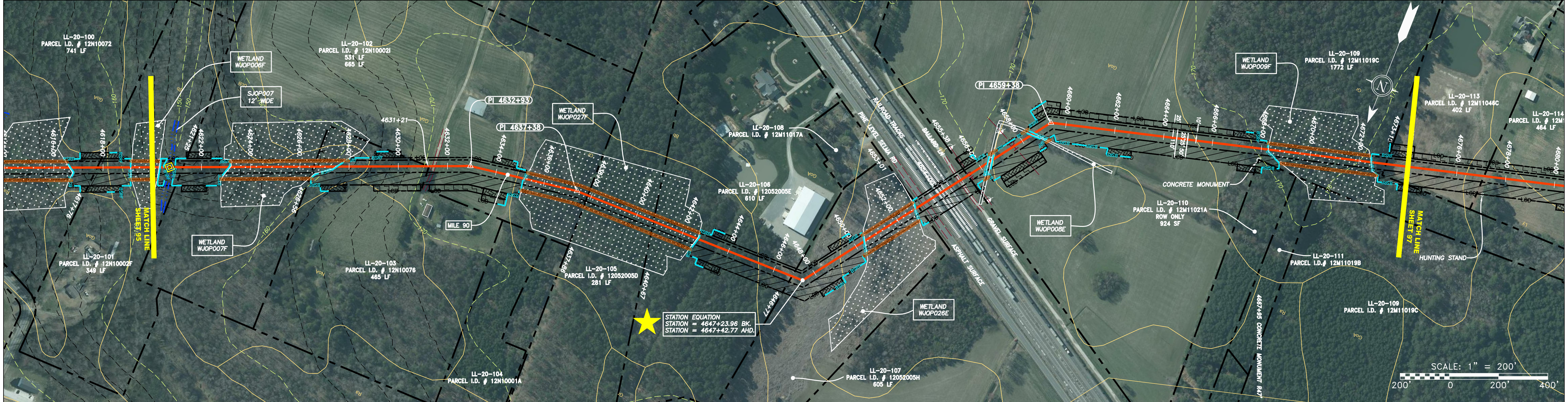
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

PROJECT NO./DASH NO. **140468**
 TASK NO. SUB TASK NO. **005 00**
 GROUP ID DRAWING NO. **D E095**
 95 OF 189

GAI CAD FILE NO. \ITG-FS\THRASHER_050-5159 - GAI, INC. - SERP - MAPPING\SURVEY\DRAWING\SEC 10\SECT 10 SHEETS - 95-100 (31-35) - REROUTE 6-25-15.DWG



PROPERTY OWNERSHIP	PARCEL I.D.	AREA (LF)
LL-20-101	# 12N10002F	349
LL-20-102	# 12N10002I	531
LL-20-103	# 12N10076	465
LL-20-104	# 12N10001A	605
LL-20-105	# 12052005D	281
LL-20-106	# 12052005E	610
LL-20-107	# 12052005H	605
LL-20-109	# 12M1019C	1772
LL-20-110	# 12M1021A	924
LL-20-111	# 12M1019B	924
LL-20-113	# 12M1046C	402



<p>LEGEND</p> <ul style="list-style-type: none"> — X — X — PROPERTY LINE — E — UNDERGROUND ELECTRIC — W — WATER LINE — G — EXISTING GAS PIPELINE — OH — OVERHEAD UTILITY LINES — — ACCESS ROAD — — PROPOSED GAS PIPELINE — — SANITARY SEWER — — EDGE OF GRAVEL — — PROPOSED PERMANENT EASEMENT — — PROPOSED GAS PIPELINE (NO GROUND SURVEY) 	<ul style="list-style-type: none"> EXTRA WORK SPACE AREA OF NO DISTURBANCE WETLAND (EDGE SHOWN TO PROVIDE CLARITY ONLY) TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. UTILITY POLE 	<ul style="list-style-type: none"> PERMANENT WATERBAR/SLOPE BREAKER TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG STREAM CROSSING USFWS STREAM CROSSING WITH ENHANCED CONTROLS CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT/ WATERBAR LOD BSRF COIR LOG COMPOST FILTER SOCK ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF) CONCRETE MONUMENT CONCRETE MONUMENT
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NOTES:

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REVISIONS		DESCRIPTION
NO.	DATE	

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 4620+00 TO 4674+00

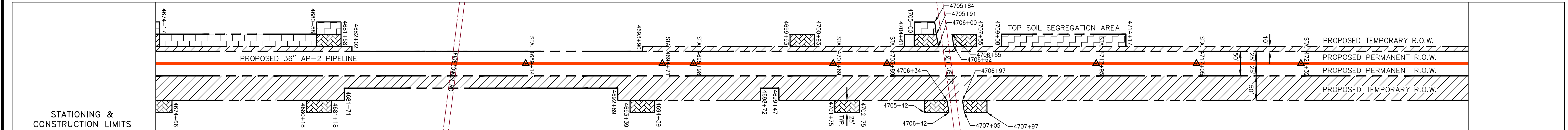
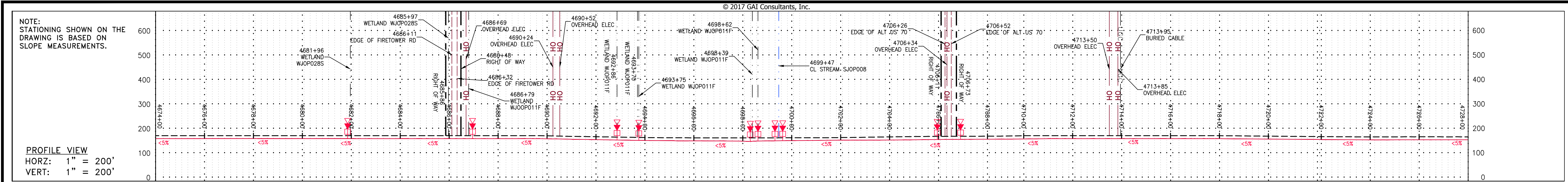
JOHNSON COUNTY, NORTH CAROLINA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

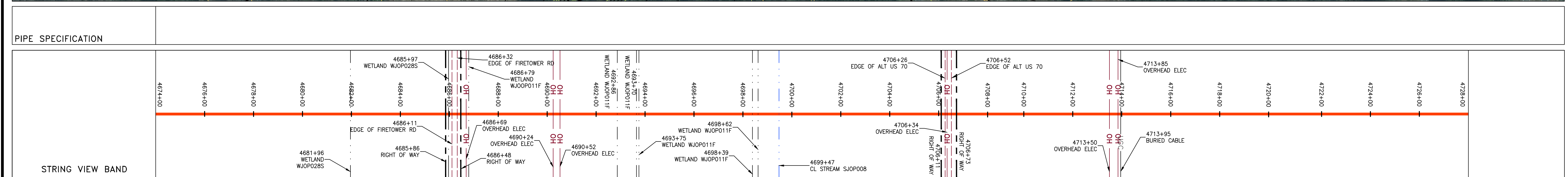
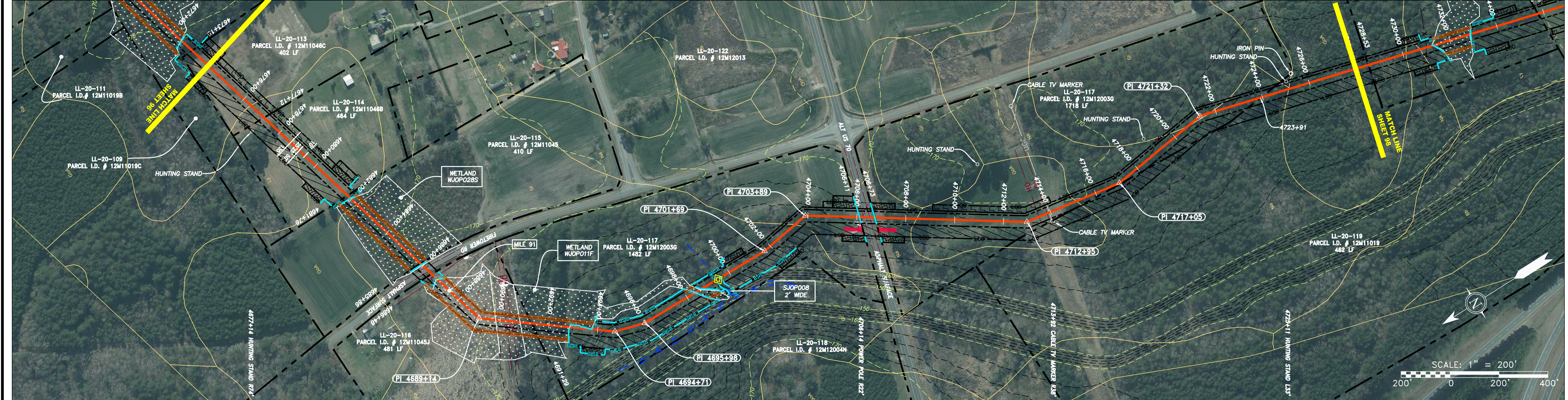
gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #0269

PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E096
96 OF 189	

GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 10\SECT 10 SHEETS - 95-100 (31-35) - REROUTE 6-25-15.DWG



PROPERTY OWNERSHIP	STATIONING & CONSTRUCTION LIMITS
LL-20-113 PARCEL I.D. # 12M11046C 402 LF	4674+00
LL-20-114 PARCEL I.D. # 12M11046B 464 LF	4677+12
LL-20-115 PARCEL I.D. # 12M11045 410 LF	4681+76
LL-20-116 PARCEL I.D. # 12M11045J 481 LF	4685+48
LL-20-117 PARCEL I.D. # 12M12003G 1482 LF	4691+29
LL-20-117 PARCEL I.D. # 12M12003G 1718 LF	4706+11
LL-20-119 PARCEL I.D. # 12M11019 462 LF	4723+91
	4728+00



LEGEND

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

NOTES:

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PERMANENT WATERBAR/SLOPE BREAKER

TEMPORARY WATERBAR/SLOPE BREAKER

TRENCH BREAKER/PLUG

STREAM CROSSING

USFWS STREAM CROSSING WITH ENHANCED CONTROLS

CONSTRUCTION ENTRANCE WITH DITCH

CULVERT AS NEEDED

CULVERT WATERBAR

LOD - LIMIT OF DISTURBANCE

BSRF - BELTED SILT RETENTION FENCE (BSRF)

COIR LOG

COMPOST FILTER SOCK

ORANGE SAFETY FENCE

ROADSIDE DITCH

Soil Type

REVISIONS		DESCRIPTION
NO.	DATE	

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 4674+00 TO 4728+00
 JOHNSTON COUNTY, NORTH CAROLINA

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

SCALE:	AS SHOWN
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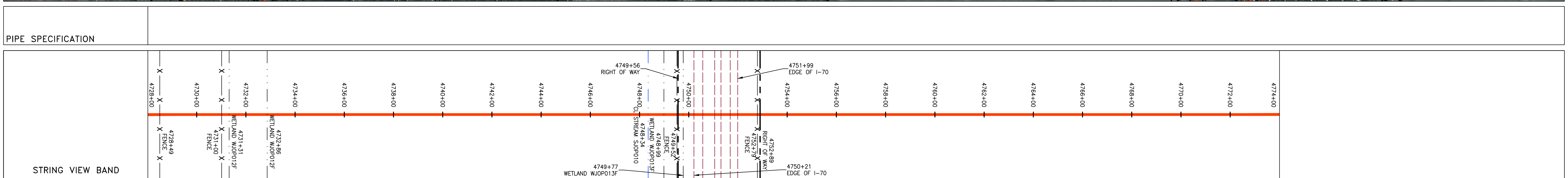
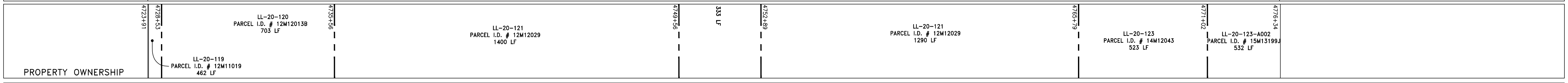
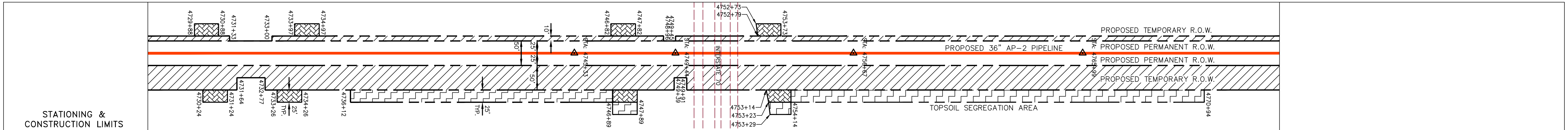
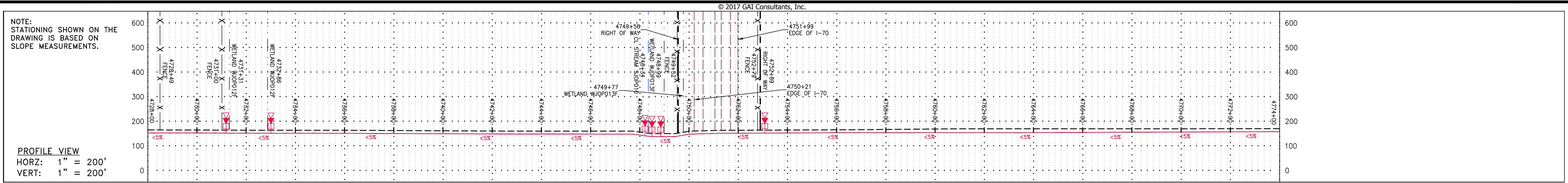
gai consultants - NC, inc.

4198 COX ROAD
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 GLEN ALLEN, VA 23060
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 N.C. COL #00-0269

PROJECT NO./DASH NO.	140468	
TASK NO.	005	SUB TASK NO. 00
GROUP ID	D	DRAWING NO. E097
97		OF 189

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.

GAI CAD FILE NO. \ITG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 10\SECT 10 SHEETS - 95-100 (31-35) - REROUTE 6-25-15.DWG



<p>LEGEND</p> <p>— X — X — PROPERTY LINE</p> <p>— X — X — FENCE</p> <p>— G — G — EXISTING GAS PIPELINE</p> <p>— OH — OH — OVERHEAD UTILITY LINES</p> <p>— — — — ACCESS ROAD</p> <p>— — — — PROPOSED GAS PIPELINE</p> <p>— — — — UNDERGROUND ELECTRIC</p> <p>— W — W — WATER LINE</p> <p>— SAN — 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>▲ USFS WITH STREAM CROSSING WITH ENHANCED CONTROLS</p> <p>▲ CONSTRUCTION ENTRANCE WITH DITCH</p> <p>▲ CULVERT/ WATERBAR</p> <p>— LOD — LIMIT OF DISTURBANCE</p> <p>— BSRF — BELTED SILT RETENTION FENCE (BSRF)</p> <p>— COIR LOG — COIR LOG</p> <p>— COMPOST FILTER SOCK — COMPOST FILTER SOCK</p> <p>— ORANGE SAFETY FENCE — ORANGE SAFETY FENCE</p> <p>— ROADSIDE DITCH — ROADSIDE DITCH</p> <p>— CUB — SOIL TYPE</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. 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. 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. 	
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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

JOHNSTON COUNTY, NORTH CAROLINA

PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 No. 10000
 T. A. ROBERTSON

SCALE: AS SHOWN

DATE: 06/09/17

DRAWN: GPT

CHECKED: DLH

APPROVED: NET

gai consultants - NC, inc.

4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #0269

PROJECT NO./DASH NO.
140468

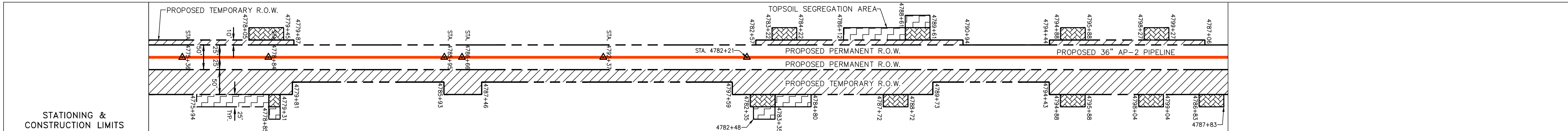
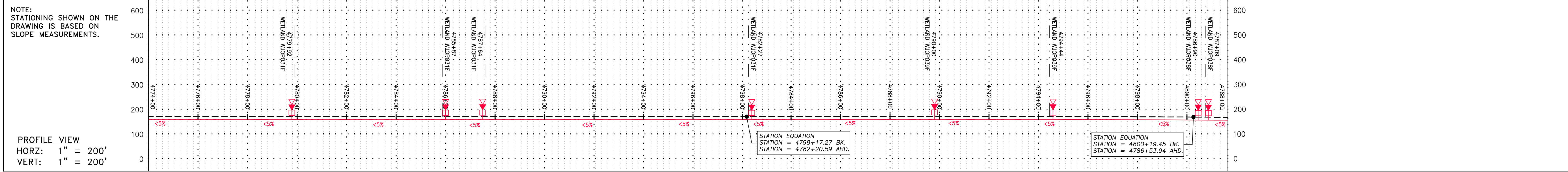
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GROUP ID DRAWING NO.
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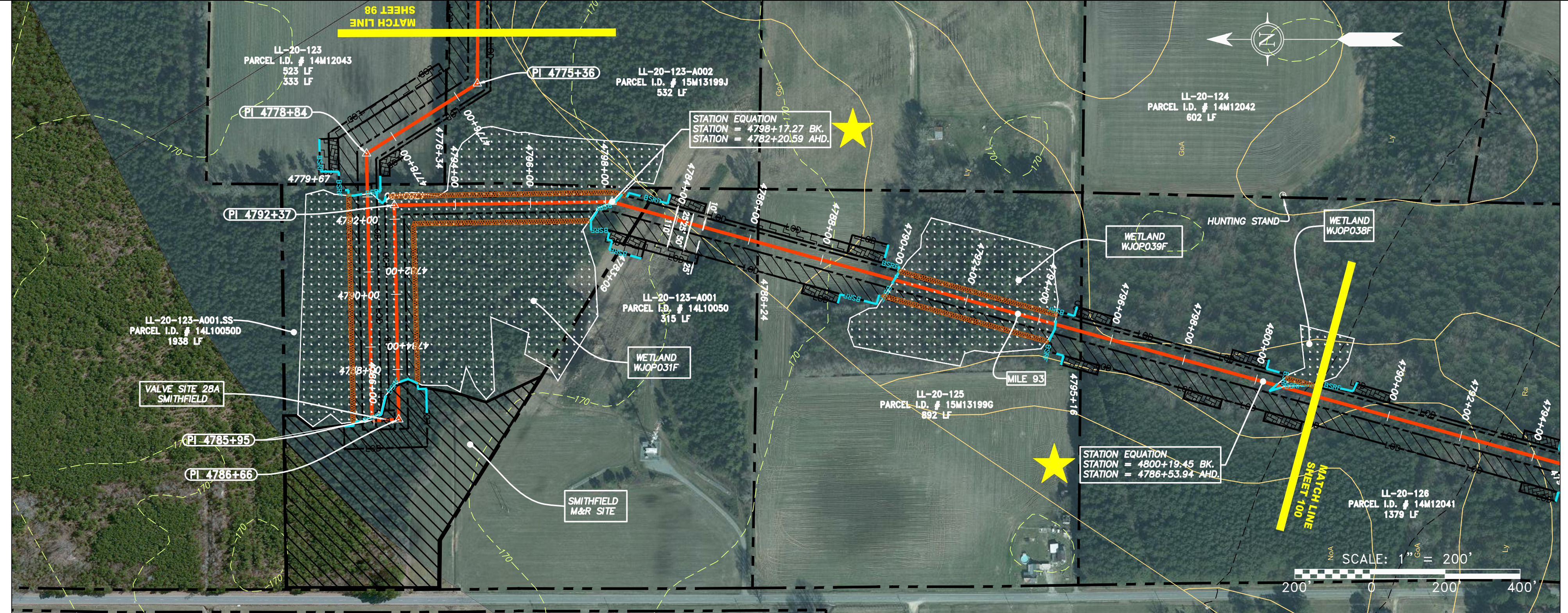
GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 10\SECT 10 SHEETS - 95-100 (31-35) - REROUTE 6-25-15.DWG

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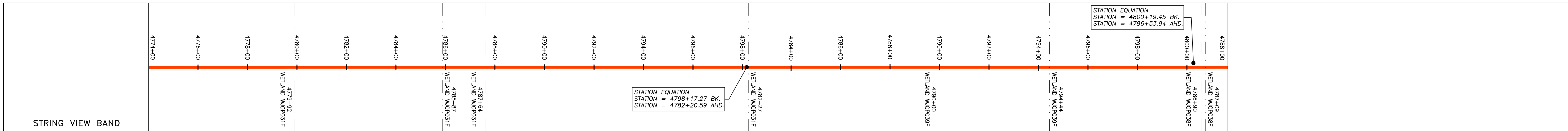
PROPERTY OWNERSHIP

LL-20-123-A002 PARCEL I.D. # 15M13198J 532 LF	LL-20-123 PARCEL I.D. # 14M12043 333 LF	LL-20-123-A001.SS PARCEL I.D. # 14L10050D 1938 LF	LL-20-123-A001 PARCEL I.D. # 14L10050 315 LF	LL-20-125 PARCEL I.D. # 15M13199G 892 LF	LL-20-126 PARCEL I.D. # 14M12041 1379 LF
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PIPE SPECIFICATION

4774+00	4776+00	4778+00	4780+00	4782+00	4784+00	4786+00	4788+00
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LEGEND

— X — X —	PROPERTY LINE	— E —	UNDERGROUND ELECTRIC	— W —	WATER LINE	— G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	— OH —	OVERHEAD UTILITY LINES	— A —	ACCESS ROAD	— P —	PROPOSED PERMANENT EASEMENT	— G —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
—	FENCE	—	STREAM	—	EXISTING GAS PIPELINE	—	OVERHEAD UTILITY LINES	—	ACCESS ROAD	—	PROPOSED PERMANENT EASEMENT	—	PROPOSED GAS PIPELINE (NO GROUND SURVEY)				
—	EXTRA WORK SPACE	—	TOPSOIL SEGREGATION AREA	—	AREA OF NO DISTURANCE	—	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	—	CONSTRUCTION ENTRANCE WITH DITCH	—	CULVERT AS NEEDED	—	CULVERT WATERBAR	—	LOD	LIMIT OF DISTURBANCE	—	BSRF	BELTED SILT RETENTION FENCE (BSRF)	—	COIR LOG
—	COMPOST FILTER SOCK	—	ORANGE SAFETY FENCE	—	ROADSIDE DITCH	—	CuB	SOIL TYPE									

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 TRU 11-07-2014.
- IMAGERY TAKEN FROM GOOGLE EARTH.
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- 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.
- 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 FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.
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NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 10).

REVISIONS

NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 4774+00 TO 4788+00
 JOHNSTON COUNTY, NORTH CAROLINA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE: AS SHOWN
 DATE: 06/09/17
 DRAWN: GPT
 CHECKED: DLH
 APPROVED: NET

gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL. #1-0269

PROJECT NO./DASH NO.
140468

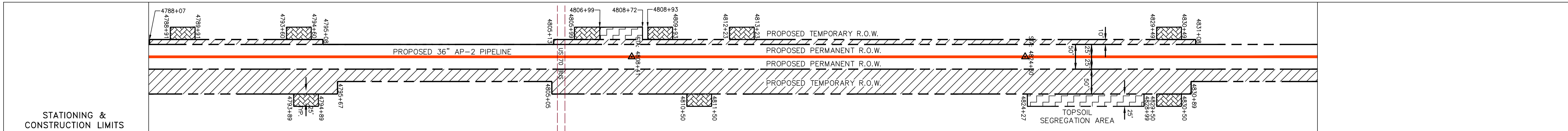
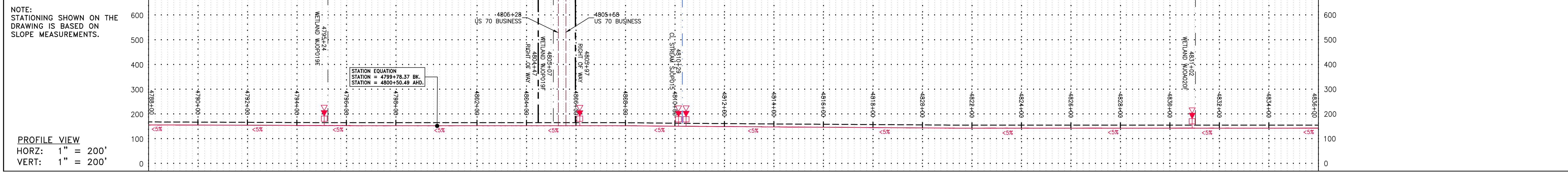
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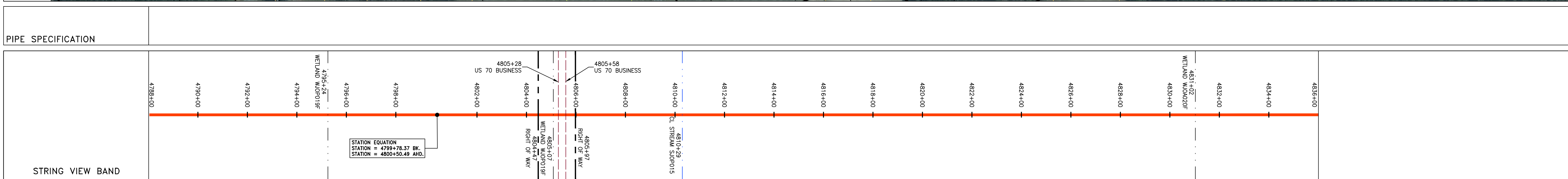
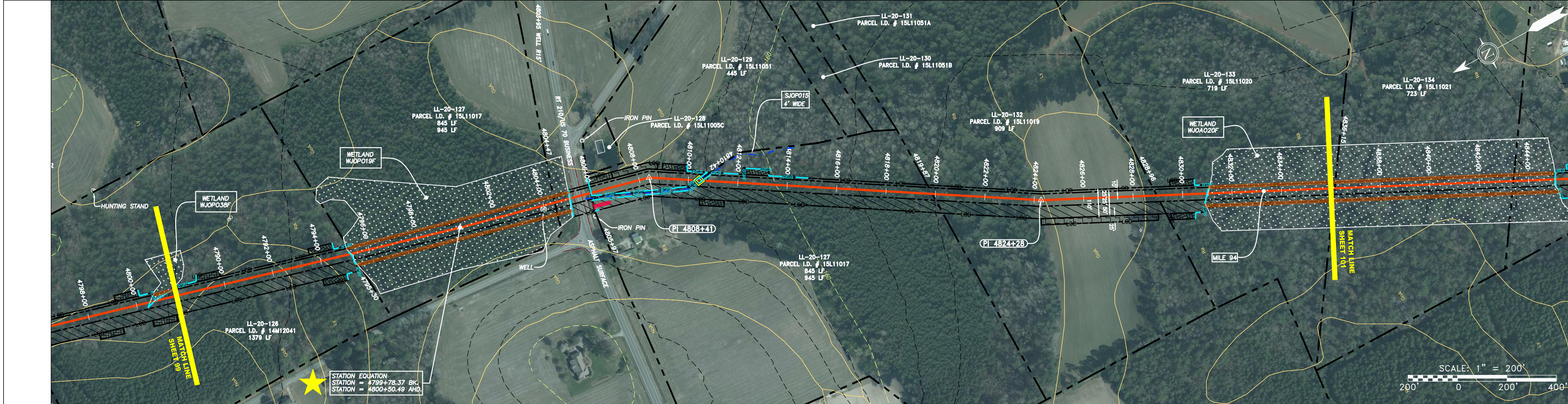
99 OF 189

GAI CAD FILE NO. \ITG-FS1\THRASHER\050-5159 - GAI, INC. - SERP - MAPPING\SURVEY\DRAWING\SEC 10\SECT 10 SHEETS - 95-100 (31-35) - REROUTE 6-25-15.DWG

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PROPERTY OWNERSHIP
LL-20-126 PARCEL I.D. # 14M12041 1379 LF
LL-20-127 PARCEL I.D. # 15L11017 845 LF
LL-20-129 PARCEL I.D. # 15L11051 445 LF
LL-20-127 PARCEL I.D. # 15L11017 945 LF
LL-20-132 PARCEL I.D. # 15L11019 909 LF
LL-20-133 PARCEL I.D. # 15L11020 719 LF
LL-20-131 PARCEL I.D. # 15L11051A
LL-20-129 PARCEL I.D. # 15L11051 445 LF
LL-20-130 PARCEL I.D. # 15L11051B
LL-20-133 PARCEL I.D. # 15L11020 719 LF
LL-20-134 PARCEL I.D. # 15L11021 723 LF



<p>LEGEND</p> <ul style="list-style-type: none"> — X — X — PROPERTY LINE — F — F — FENCE — S — S — STREAM — G — G — EXISTING GAS PIPELINE — OH — OH — OVERHEAD UTILITY LINES — A — A — ACCESS ROAD — P — P — PROPOSED GAS PIPELINE — E — E — UNDERGROUND ELECTRIC — W — W — WATER LINE — SAN — SAN — SANITARY SEWER — EG — EG — EDGE OF GRAVEL — PE — PE — PROPOSED PERMANENT EASEMENT — PG — PG — PROPOSED GAS PIPELINE (NO GROUND SURVEY) — [Hatched Box] — [Hatched Box] — EXTRA WORK SPACE — [Dotted Box] — [Dotted Box] — AREA OF NO DISTURANCE — [Green Box] — [Green Box] — WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) — [Hatched Box] — [Hatched Box] — TOPSOIL SEGREGATION AREA — [Hatched Box] — [Hatched Box] — PROPOSED TEMPORARY R.O.W. — [Circle] — [Circle] — UTILITY POLE — [Triangle] — [Triangle] — PERMANENT WATERBAR/SLOPE BREAKER — [Square] — [Square] — TEMPORARY WATERBAR/SLOPE BREAKER — [Diamond] — [Diamond] — TRENCH BREAKER/PLUG — [Circle] — [Circle] — STREAM CROSSING — [Diamond] — [Diamond] — USFWS STREAM CROSSING WITH ENHANCED CONTROLS — [Triangle] — [Triangle] — CONSTRUCTION ENTRANCE WITH DITCH — [Line] — [Line] — CULVERT/ WATERBAR — [Line] — [Line] — LOD — LIMIT OF DISTURBANCE — [Line] — [Line] — BSRF — BELTED SILT RETENTION FENCE (BSRF) — [Line] — [Line] — COIR LOG — [Line] — [Line] — COMPOST FILTER SOCK — [Line] — [Line] — ORANGE SAFETY FENCE — [Line] — [Line] — ROADSIDE DITCH — [Circle] — [Circle] — SOIL TYPE (CuB) 	<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. 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 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. 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 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.
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REVISIONS		DESCRIPTION
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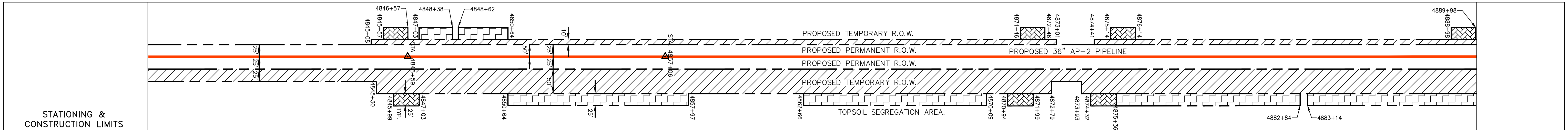
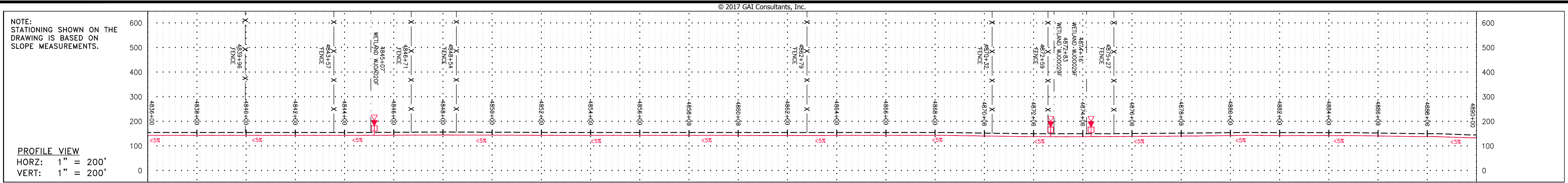
36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 4788+00 TO 4835+00
 JOHNSTON COUNTY, NORTH CAROLINA

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

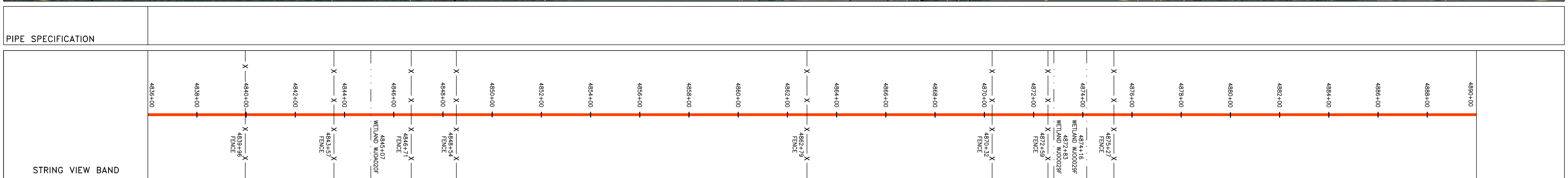
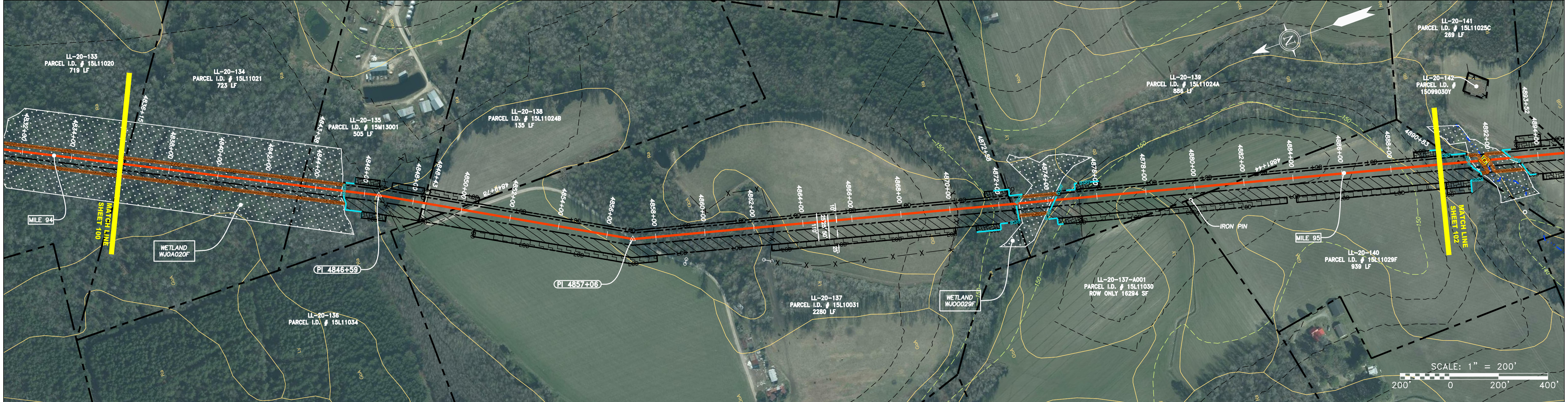
SCALE:	AS SHOWN
DATE:	06/09/17
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APPROVED:	NET

gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #F-0269

PROJECT NO./DASH NO.	140468	
TASK NO.	005	00
GROUP ID	D	E100
100	OF	189



PROPERTY OWNERSHIP	PARCEL I.D. #	AREA (LF)
LL-20-133	15L11020	719 LF
LL-20-134	15L11021	723 LF
LL-20-135	15M13001	505 LF
LL-20-136	15L11024B	135 LF
LL-20-137	15L10031	2280 LF
LL-20-139	15L11024A	886 LF
LL-20-137-A001	15L11030 ROW ONLY	16294 SF
LL-20-140	15L11029F	939 LF



LEGEND - - - PROPERTY LINE X - X FENCE - - - STREAM G - G EXISTING GAS PIPELINE OH - OVERHEAD UTILITY LINES - - - ACCESS ROAD - - - PROPOSED GAS PIPELINE	- - - UNDERGROUND ELECTRIC W - WATER LINE SAN - SANITARY SEWER - - - EDGE OF GRAVEL - - - PROPOSED PERMANENT EASEMENT - - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)	[Symbol] EXTRA WORK SPACE [Symbol] AREA OF NO DISTURBANCE [Symbol] WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)	[Symbol] TOPSOIL SEGREGATION AREA [Symbol] PROPOSED TEMPORARY R.O.W. [Symbol] UTILITY POLE	[Symbol] PERMANENT WATERBAR/SLOPE BREAKER [Symbol] TEMPORARY WATERBAR/SLOPE BREAKER [Symbol] TRENCH BREAKER/PLUG [Symbol] STREAM CROSSING [Symbol] USFWS STREAM CROSSING WITH ENHANCED CONTROLS [Symbol] CONSTRUCTION ENTRANCE WITH DITCH [Symbol] CULVERT/WATERBAR	[Symbol] LOD - LIMIT OF DISTURBANCE [Symbol] BSRF - BELTED SILT RETENTION FENCE (BSRF) [Symbol] COIR LOG [Symbol] COMPOST FILTER SOCK [Symbol] ORANGE SAFETY FENCE [Symbol] ROADSIDE DITCH [Symbol] SOIL TYPE	NOTES: 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. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. 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. 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. 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 FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 10. 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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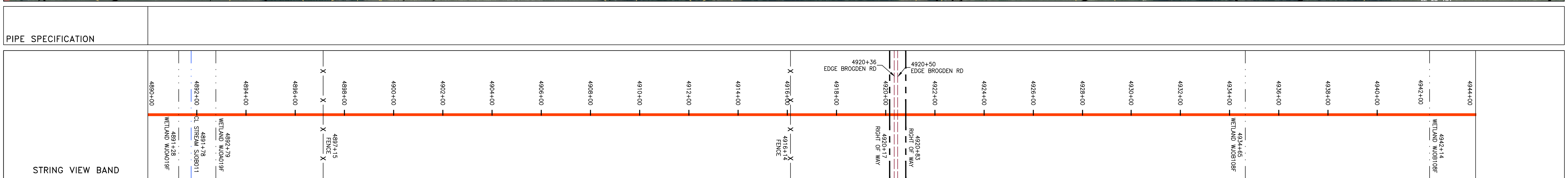
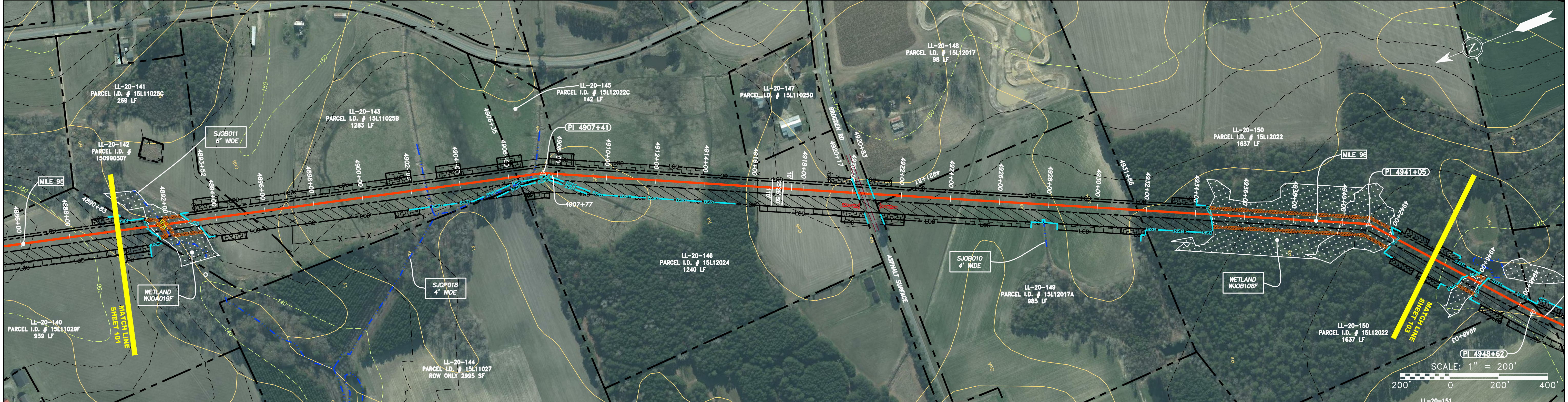
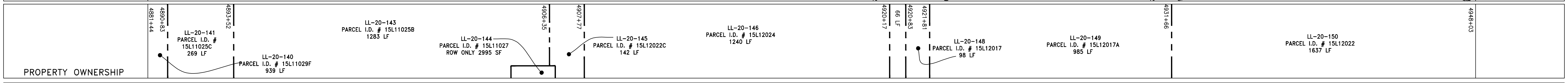
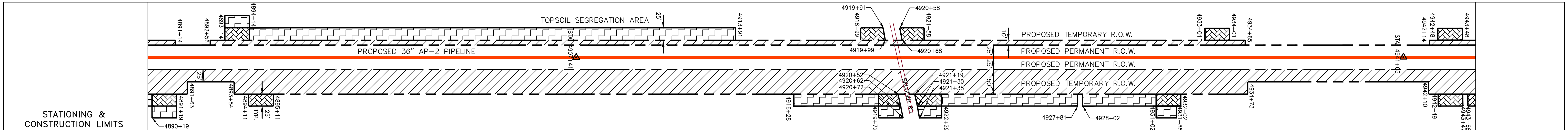
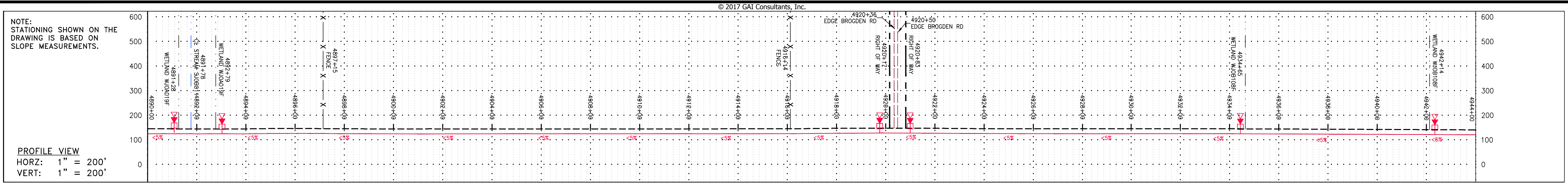
36" AP-2 PIPELINE
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 JOHNSTON COUNTY, NORTH CAROLINA
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PROJECT NO./DASH NO.	140468	
TASK NO.	005	00
GROUP ID	D	E101
101	OF	189

GAI CAD FILE NO. \\\TTC-FS\\THRASHER_050-5159 - GAI, INC. - SERP - MAPPING\\SURVEY\\DRAWING\\SEC 10\\SECT 10 SHEETS - 101-105 (36-40) REROUTE 2-26-16.DWG



LEGEND -X-X- PROPERTY LINE -F- FENCE -S- STREAM -G-G- EXISTING GAS PIPELINE -OH- OVERHEAD UTILITY LINES -OR- ACCESS ROAD -OR- PROPOSED GAS PIPELINE -E- UNDERGROUND ELECTRIC -W- WATER LINE -SAN- SANITARY SEWER -EG- EDGE OF GRAVEL -PE- PROPOSED PERMANENT EASEMENT -PE- PROPOSED GAS PIPELINE (NO GROUND SURVEY)		[Symbol] EXTRA WORK SPACE [Symbol] AREA OF NO DISTURBANCE [Symbol] WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		[Symbol] TOPSOIL SEGREGATION AREA [Symbol] PROPOSED TEMPORARY R.O.W. [Symbol] UTILITY POLE		[Symbol] PERMANENT WATERBAR/SLOPE BREAKER [Symbol] TEMPORARY WATERBAR/SLOPE BREAKER [Symbol] TRENCH BREAKER/PLUG [Symbol] STREAM CROSSING [Symbol] USFWS STREAM CROSSING WITH ENHANCED CONTROLS [Symbol] CONSTRUCTION ENTRANCE WITH DITCH [Symbol] CULVERT/ WATERBAR		[Symbol] LOD LIMIT OF DISTURBANCE [Symbol] BSRF BELTED SILT RETENTION FENCE (BSRF) [Symbol] COIR LOG [Symbol] COMPOST FILTER SOCK [Symbol] ORANGE SAFETY FENCE [Symbol] ROADSIDE DITCH [Symbol] CuB SOIL TYPE		NOTES: 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. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. 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. 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. 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 FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 10. 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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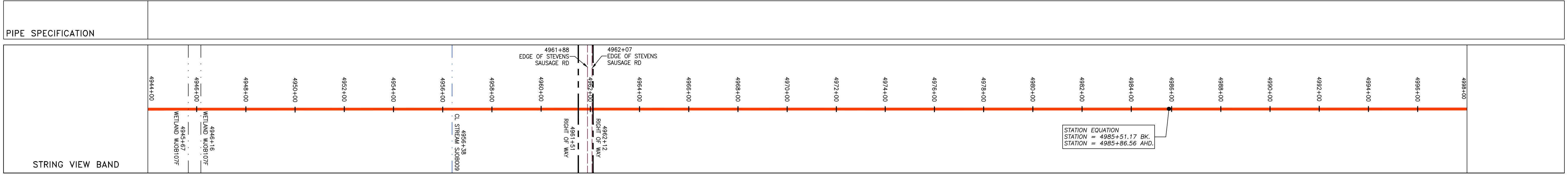
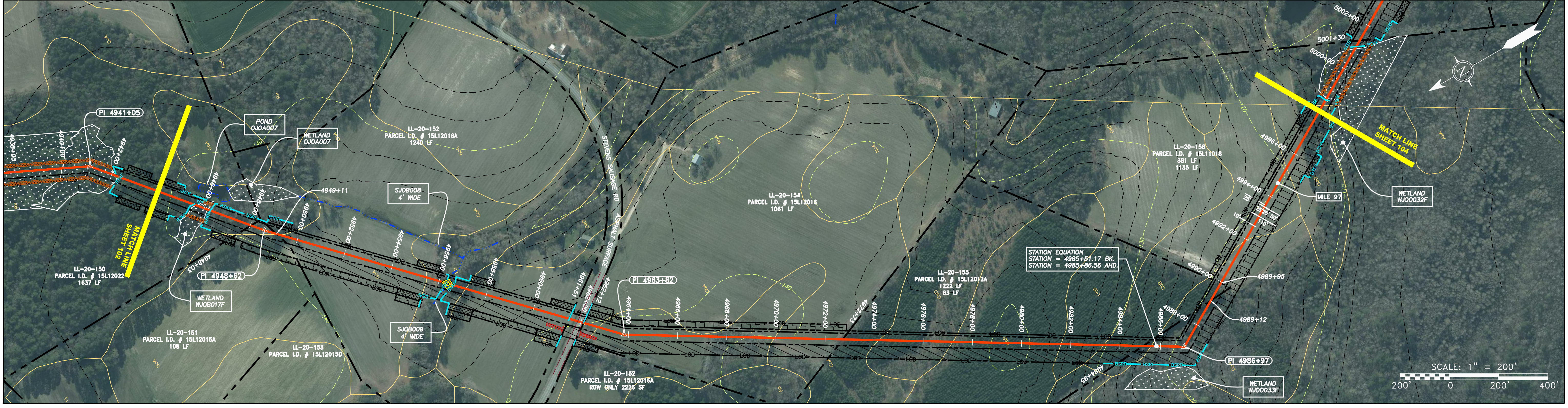
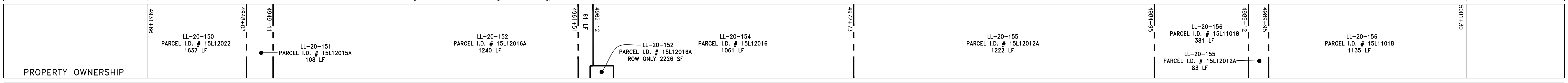
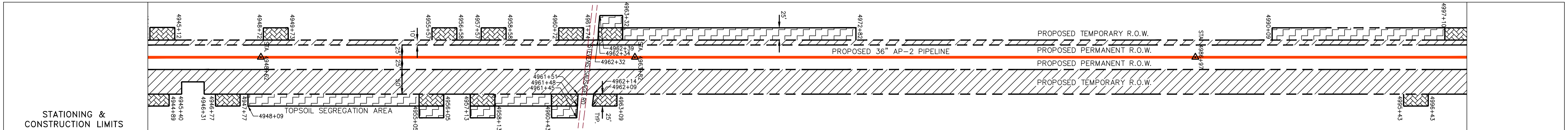
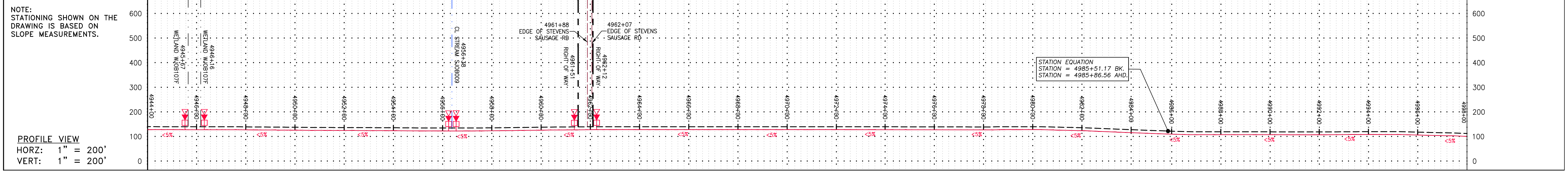
REVISIONS		DESCRIPTION
NO.	DATE	

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

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #0269

PROJECT NO./DASH NO.	140468	
TASK NO.	005	00
GROUP ID	D	E102
102	OF	189



LEGEND - - - - - PROPERTY LINE X - X - FENCE - - - - - STREAM G - G - EXISTING GAS PIPELINE OH - OVERHEAD UTILITY LINES - - - - - ACCESS ROAD - - - - - PROPOSED GAS PIPELINE		- - - - - UNDERGROUND ELECTRIC W - WATER LINE SAN - SANITARY SEWER - - - - - EDGE OF GRAVEL - - - - - PROPOSED PERMANENT EASEMENT - - - - - PROPOSED GAS PIPELINE (NO GROUND SURVEY)		[Hatched Box] EXTRA WORK SPACE [Dotted Box] AREA OF NO DISTURBANCE [Green Box] WETLAND (EDGE SHOWN TO PROVIDE CLARITY ONLY)		[Hatched Box] TOPSOIL SEGREGATION AREA [Hatched Box] PROPOSED TEMPORARY R.O.W. [Circle with X] UTILITY POLE		[Triangle with X] PERMANENT WATERBAR/SLOPE BREAKER [Triangle with Circle] TEMPORARY WATERBAR/SLOPE BREAKER [Triangle] TRENCH BREAKER/PLUG [Diamond] STREAM CROSSING [Diamond with X] USFWS STREAM CROSSING WITH ENHANCED CONTROLS [Triangle with Circle] CONSTRUCTION ENTRANCE WITH DITCH [Triangle] CULVERT/ WATERBAR		[Line] LOD - LIMIT OF DISTURBANCE [Line] BSRF - BELTED SILT RETENTION FENCE (BSRF) [Line] COIR LOG [Line] COMPOST FILTER SOCK [Line] ORANGE SAFETY FENCE [Line] ROADSIDE DITCH [Circle] CuB - SOIL TYPE		NOTES: 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. 3. IMAGERY TAKEN FROM GOOGLE EARTH. 4. 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. 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. 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 FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4. 10. 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		DESCRIPTION
NO.	DATE	

36" AP-2 PIPELINE
 CONSTRUCTION ALIGNMENT STA: 4944+00 TO 4998+00
 JOHNSTON COUNTY, NORTH CAROLINA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #F-0269

PROJECT NO./DASH NO.	140468	
TASK NO.	005	00
GROUP ID	D	E103
103	OF	189

GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GAI, INC. - SERP - MAPPING\SURVEY\DRAWING\SEC 10\SECT 10 SHEETS - 101-105 (36-40) REROUTE 2-26-16.DWG