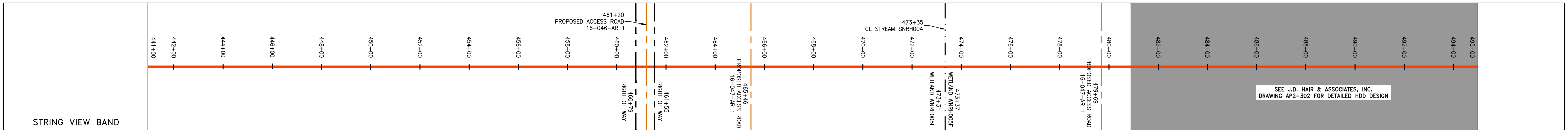


PIPE SPECIFICATION

441+00	442+00	444+00	446+00	448+00	450+00	452+00	454+00	456+00	458+00	460+00	462+00	464+00	466+00	468+00	470+00	472+00	474+00	476+00	478+00	480+00	482+00	484+00	486+00	488+00	490+00	492+00	494+00	495+00
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LEGEND

— X — X —	FENCE	— E —	UNDERGROUND ELECTRIC	— W —	WATER LINE	— G —	EXISTING GAS PIPELINE	— SAN —	SANITARY SEWER	OH	OVERHEAD UTILITY LINES	— — —	PROPOSED PERMANENT EASEMENT	— — —	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
— — —	PROPERTY LINE	— — —	STORM SEWER	— — —	EDGE OF GRAVEL	— — —	ACCESS ROAD	— — —	PROPOSED TEMPORARY R.O.W.	— — —	WETLAND	— — —	UTILITY POLE	— — —	PERMANENT WATERBAR/SLOPE BREAKER
— — —	STREAM	— — —	AREA OF NO DISTURBANCE	— — —	WETLAND	— — —	TOPSOIL SEGREGATION AREA	— — —	EXTRA WORK SPACE	— — —	WETLAND	— — —	WETLAND	— — —	TEMPORARY WATERBAR/SLOPE BREAKER
— — —	EXISTING GAS PIPELINE	— — —	WETLAND	— — —	WETLAND	— — —	TOPSOIL SEGREGATION AREA	— — —	AREA OF NO DISTURBANCE	— — —	WETLAND	— — —	WETLAND	— — —	TRENCH BREAKER/PLUG
— — —	PROPOSED GAS PIPELINE	— — —	WETLAND	— — —	WETLAND	— — —	TOPSOIL SEGREGATION AREA	— — —	AREA OF NO DISTURBANCE	— — —	WETLAND	— — —	WETLAND	— — —	STREAM CROSSING
— — —	PROPOSED PERMANENT EASEMENT	— — —	WETLAND	— — —	WETLAND	— — —	TOPSOIL SEGREGATION AREA	— — —	AREA OF NO DISTURBANCE	— — —	WETLAND	— — —	WETLAND	— — —	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
— — —	PROPOSED PERMANENT EASEMENT	— — —	WETLAND	— — —	WETLAND	— — —	TOPSOIL SEGREGATION AREA	— — —	AREA OF NO DISTURBANCE	— — —	WETLAND	— — —	WETLAND	— — —	CONSTRUCTION ENTRANCE WITH DITCH
— — —	PROPOSED PERMANENT EASEMENT	— — —	WETLAND	— — —	WETLAND	— — —	TOPSOIL SEGREGATION AREA	— — —	AREA OF NO DISTURBANCE	— — —	WETLAND	— — —	WETLAND	— — —	CULVERT/ WATERBAR

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.
- 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.
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REVISIONS	
NO.	DATE
DWN.	CHKD.
APPD.	DESCRIPTION

PROJECT NO./DASH NO.
C140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E015

15 OF 189

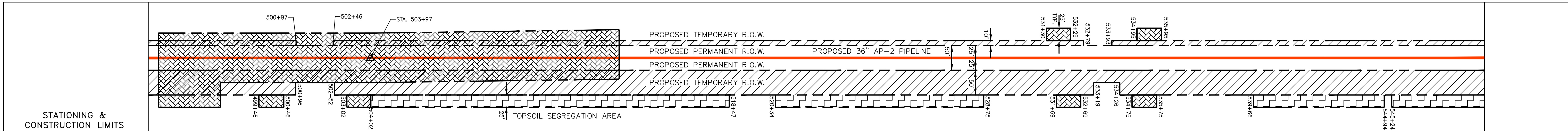
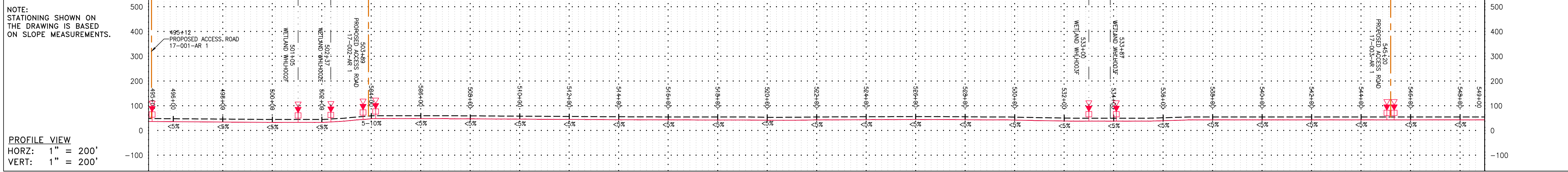
gai consultants - NC, inc.
 4198 COX ROAD
 SUITE 114
 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL. #01-0269

36" AP-2 PIPELINE
 CONSTRUCTION ALIGNMENT STA 441+00 TO 495+00
 NORTHAMPTON & HALIFAX COUNTIES, NORTH CAROLINA

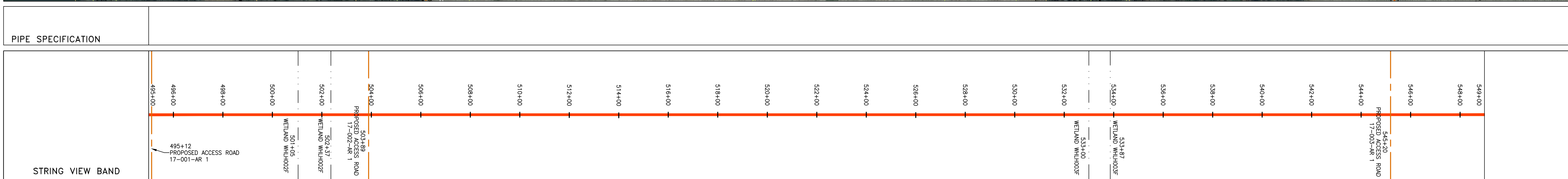
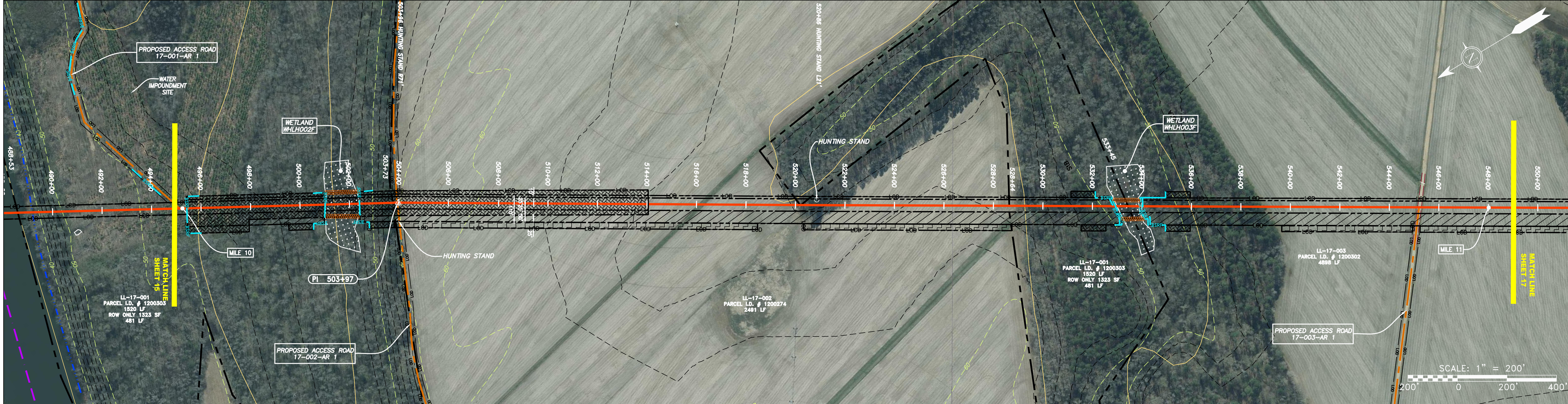
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 9\PLAN SHEETS\SEC 9 SHEETS- 15-19 (9-12) REROUTE.DWG

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PROPERTY OWNERSHIP	PARCEL I.D. #	AREA
LL-17-001	#1200303	1520 LF
LL-17-002	#1200274	2491 LF
LL-17-001	#1200303	ROW ONLY 1323 SF
LL-17-001	#1200303	481 LF
LL-17-003	#1200302	4898 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		
OVERHEAD UTILITY LINES	EDGE OF GRAVEL		
ACCESS ROAD	PROPOSED PERMANENT EASEMENT		
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)		

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	BY	CHKD.	APPD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 495+00 TO 549+00
 HALIFAX COUNTY, NORTH CAROLINA

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

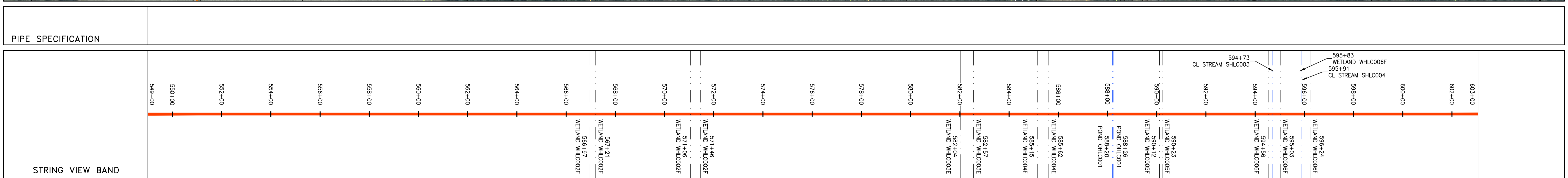
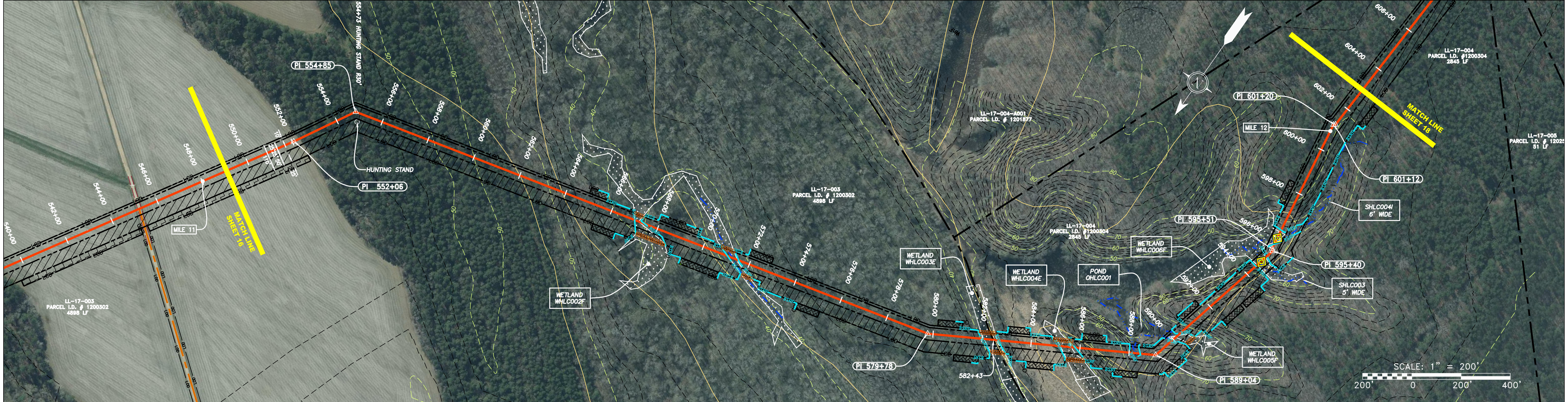
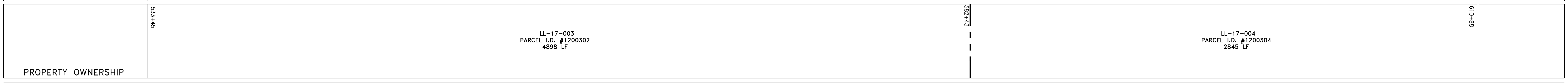
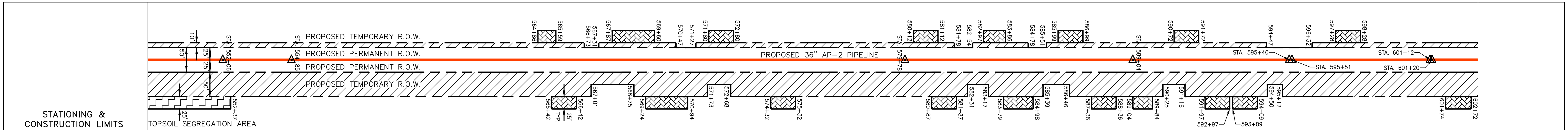
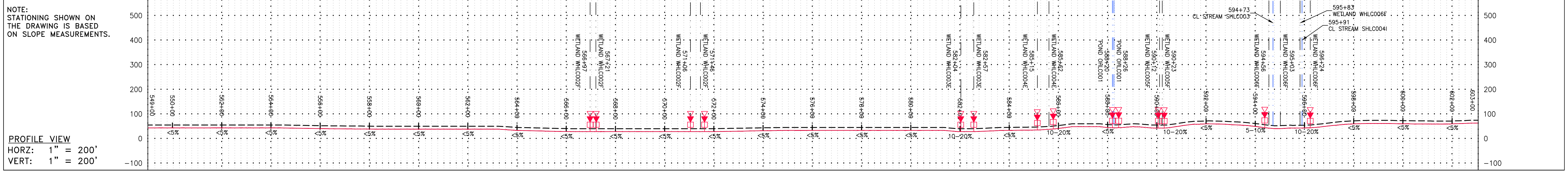
SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET

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.	C140468	
TASK NO.	005	00
GROUP ID	D	E016
16	OF 189	

GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SURVEY DRAWING\SEC 9 PLAN SHEETS\SEC 9 SHEETS- 15-19 (9-12) REROUTED.DWG

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LEGEND - - - - - PROPERTY LINE X X FENCE --- STREAM G G EXISTING GAS PIPELINE OH OVERHEAD UTILITY LINES --- ACCESS ROAD --- PROPOSED GAS PIPELINE --- UNDERGROUND ELECTRIC --- WATER LINE --- SANITARY SEWER --- EDGE OF GRAVEL --- PROPOSED PERMANENT EASEMENT --- PROPOSED GAS PIPELINE (NO GROUND SURVEY)		[Hatched] EXTRA WORK SPACE [Hatched] AREA OF NO DISTURBANCE [Hatched] WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		[Hatched] TOPSOIL SEGREGATION AREA [Hatched] 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:

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REVISIONS		DESCRIPTION
NO.	DATE	DWN. CHKD. APPD.

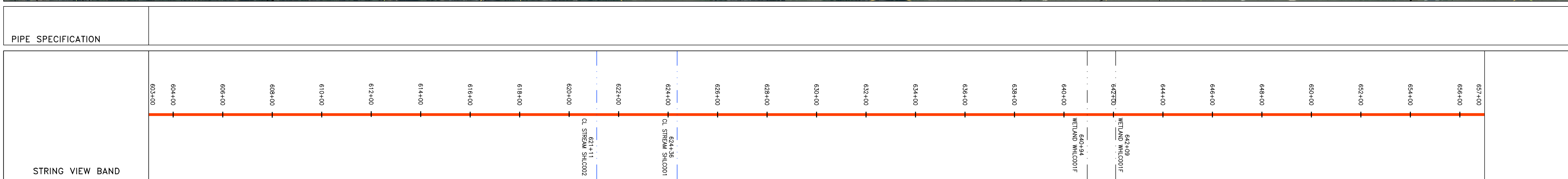
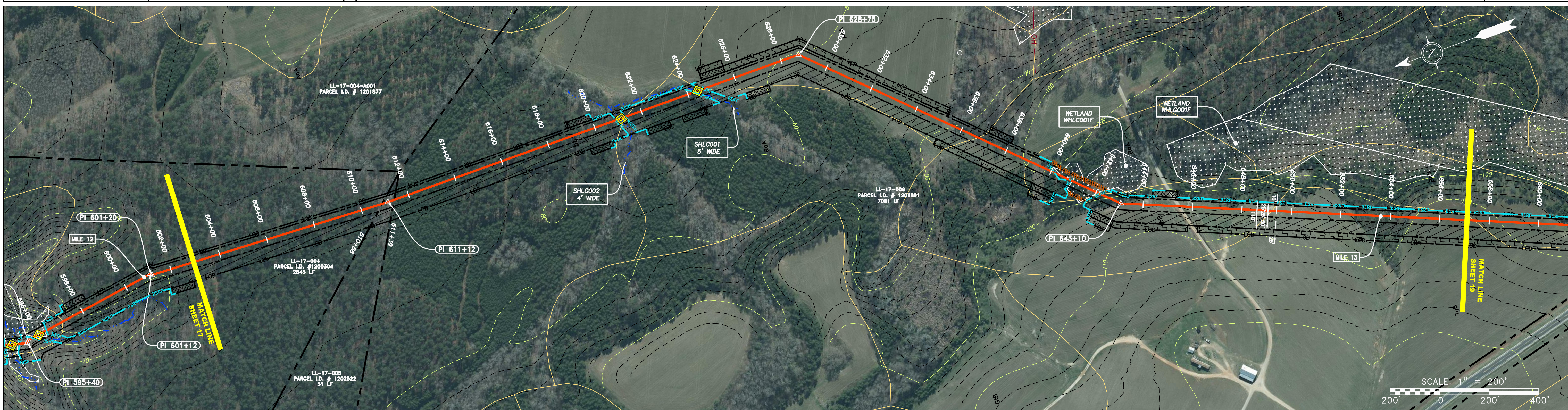
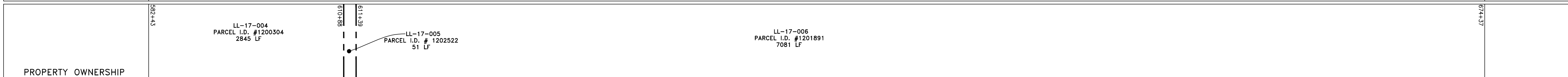
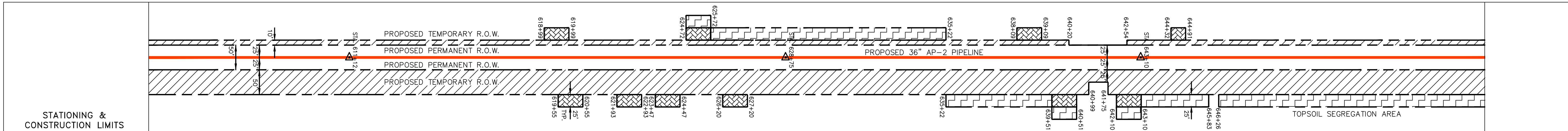
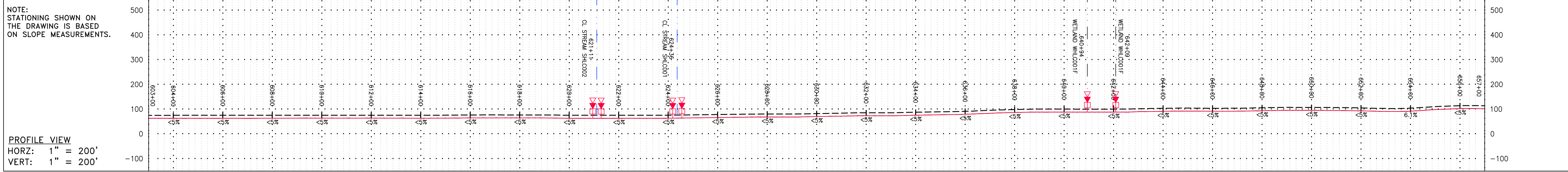
36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 549+00 TO 603+00
 HALIFAX COUNTY, NORTH CAROLINA
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

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.	C140468	
TASK NO. SUB TASK NO.	005	00
GROUP ID DRAWING NO.	D	E017
17	OF 189	

GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 9\PLAN SHEETS\SEC 9 SHEETS- 15-19 (9-12) REROUTE.DWG



LEGEND

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

NOTES:

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NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 603+00 TO STA 657+00
 HALIFAX 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

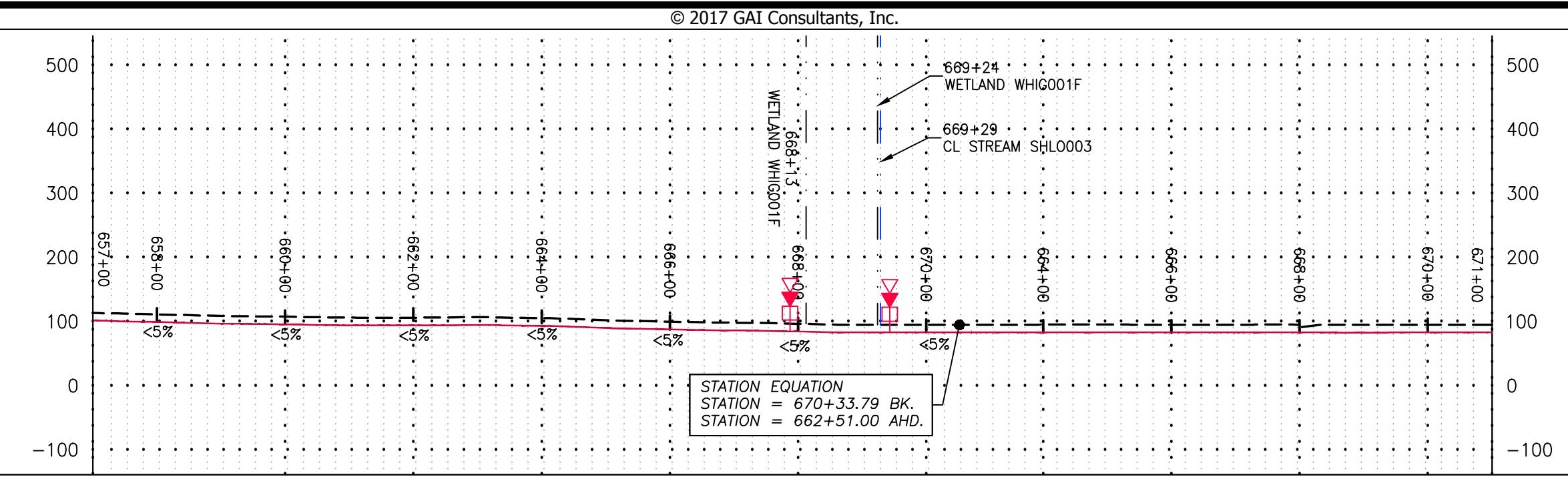
gai consultants - NC, inc.
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 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #F-0269

PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E018
18 OF 189	

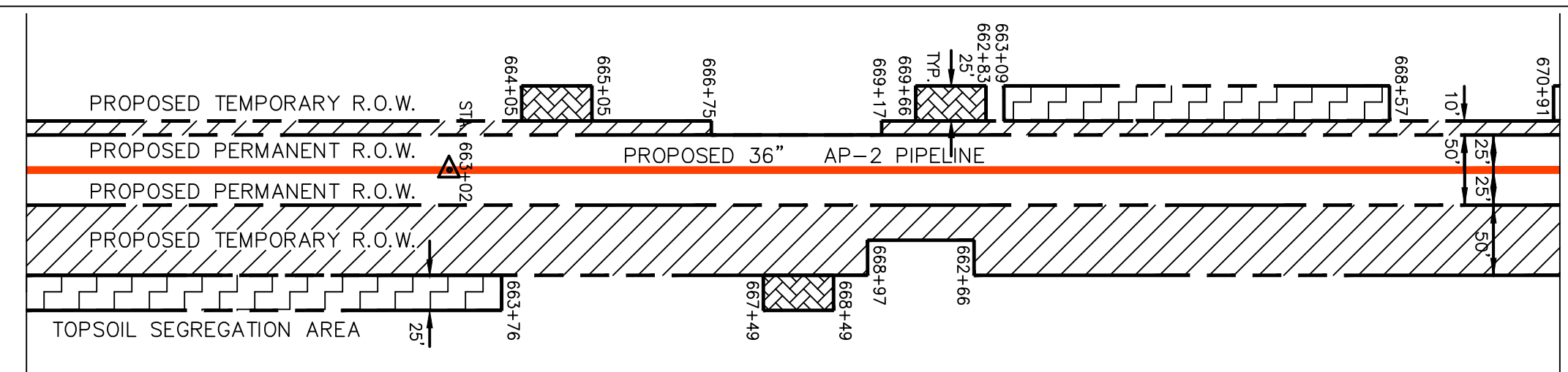
GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 9\PLAN SHEETS\SEC 9 SHEETS- 15-19 (9-12) REROUTE.DWG

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

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

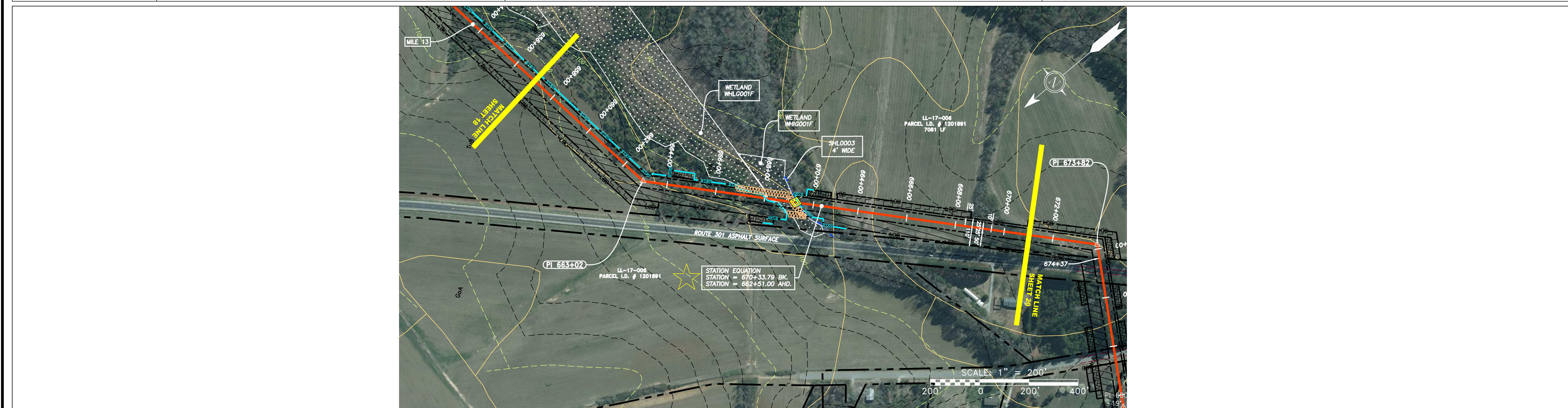


STATIONING &
CONSTRUCTION LIMITS



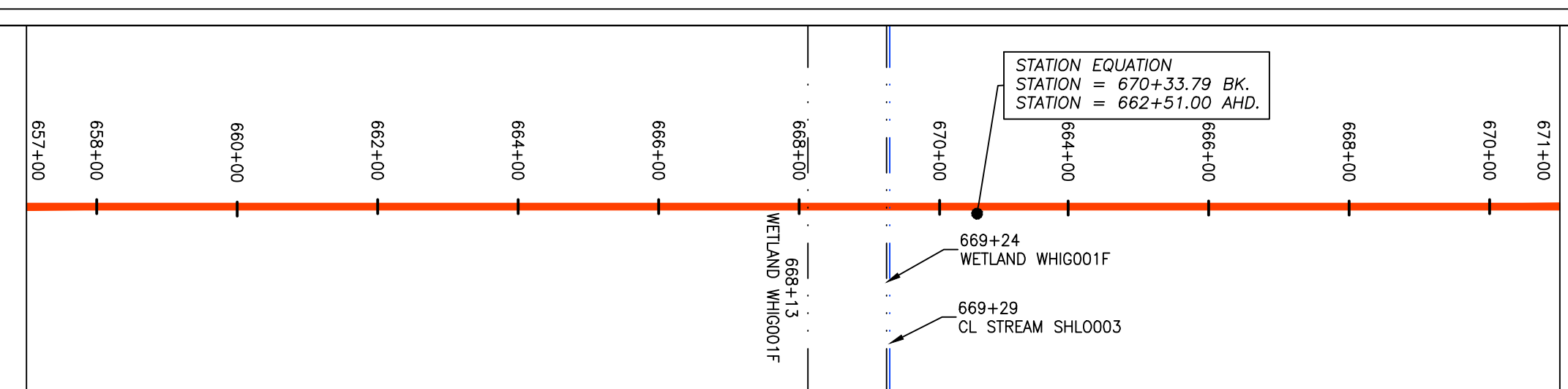
PROPERTY OWNERSHIP

LL-17-006
PARCEL I.D. # 1201891
7081 LF



PIPE SPECIFICATION

STRING VIEW BAND



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 <small>(COLOR SHOWN TO PROVIDE CLARITY ONLY)</small>	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER		
OVERHEAD UTILITY LINES	EDGE OF GRAVEL		
ACCESS ROAD	PROPOSED PERMANENT EASEMENT		
PROPOSED GAS PIPELINE	PROPOSED GAS PIPELINE (NO GROUND SURVEY)		

PERMANENT WATERBAR/SLOPE BREAKER	LIMIT OF DISTURBANCE
TEMPORARY WATERBAR/SLOPE BREAKER	BELTED SILT RETENTION FENCE (BSRF)
TRENCH BREAKER/PLUG	COIR LOG
STREAM CROSSING	COMPOST FILTER SOCK
USFWS STREAM CROSSING WITH ENHANCED CONTROLS	ORANGE SAFETY FENCE
CONSTRUCTION ENTRANCE WITH DITCH	ROADSIDE DITCH
CULVERT/WATERBAR	SOIL TYPE

- NOTES:**
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REVISIONS	
NO.	DESCRIPTION

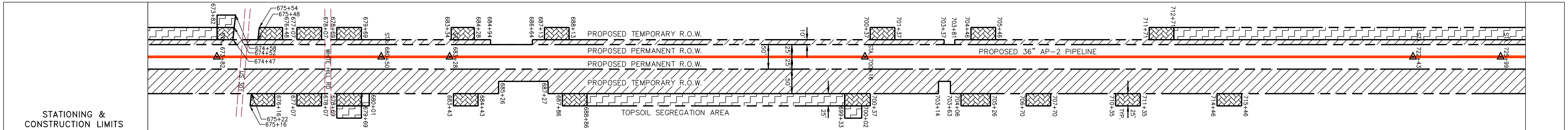
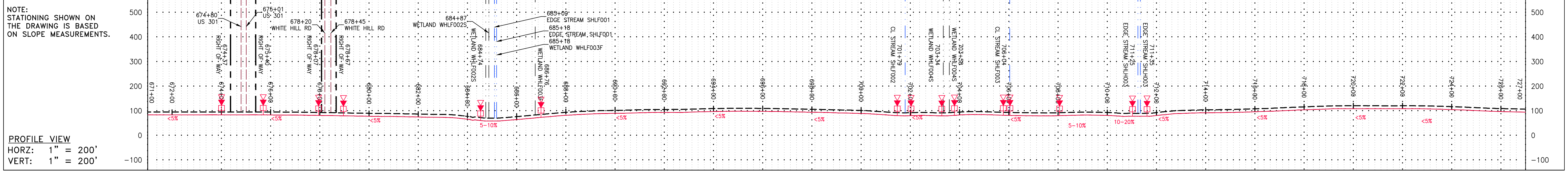
36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 657+00 TO STA 671+00
HALIFAX COUNTY, NORTH CAROLINA

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

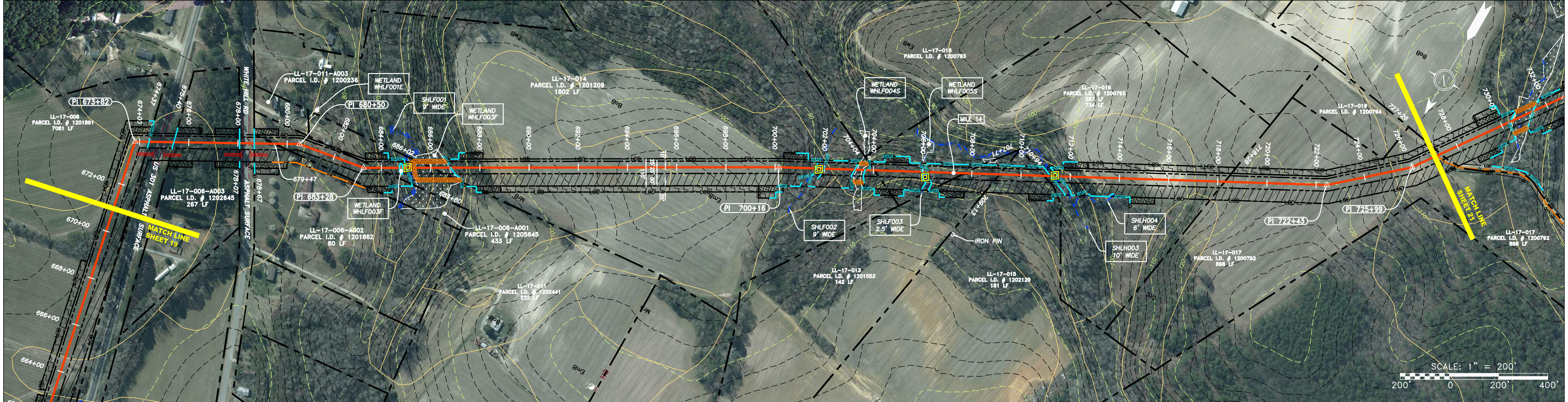
SCALE: AS SHOWN
DATE: 06/09/17
DRAWN: GPT
CHECKED: DLH
APPROVED: NET

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

PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E019
19 OF 189	



PROPERTY OWNERSHIP	PARCEL I.D. #	AREA (LF)
LL-17-006	1201891	7081 LF
LL-17-006-A003	1202645	267 LF
LL-17-006-A002	1201862	80 LF
LL-17-011	1202441	222 LF
LL-17-014	1201209	1802 LF
LL-17-013	1201553	142 LF
LL-17-016	1200793	367 LF
LL-17-015	1202129	181 LF
LL-17-016	1200793	734 LF
LL-17-017	1200792	898 LF



PIPE SPECIFICATION

PIPE TYPE	SIZE	DEPTH	INSTALLATION
Proposed Gas Pipeline	36" AP-2	48" (min)	As per manufacturer's specifications



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 <small>(COLOR SHOWN TO PROVIDE CLARITY ONLY)</small>	UTILITY POLE
EXISTING GAS PIPELINE	SANITARY SEWER	STREAM CROSSING	PERMANENT WATERBAR/SLOPE BREAKER
OVERHEAD UTILITY LINES	EDGE OF GRAVEL	USFWS STREAM CROSSING WITH ENHANCED CONTROLS	TEMPORARY WATERBAR/SLOPE BREAKER
ACCESS ROAD	PROPOSED PERMANENT EASEMENT	CONSTRUCTION ENTRANCE WITH DITCH	TRENCH BREAKER/PLUG
PROPOSED GAS PIPELINE (NO GROUND SURVEY)	PROPOSED GAS PIPELINE	CULVERT/WATERBAR	STREAM CROSSING WITH ENHANCED CONTROLS

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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REVISIONS		DESCRIPTION
NO.	DATE	

PROJECT NO./DASH NO.
C140468

TASK NO. SUB TASK NO.
005 00

GROUP ID DRAWING NO.
D E020

20 OF 189

36" AP-2 PIPELINE
 CONSTRUCTION ALIGNMENT STA 671+00 TO 727+00
 HALIFAX COUNTY, NORTH CAROLINA

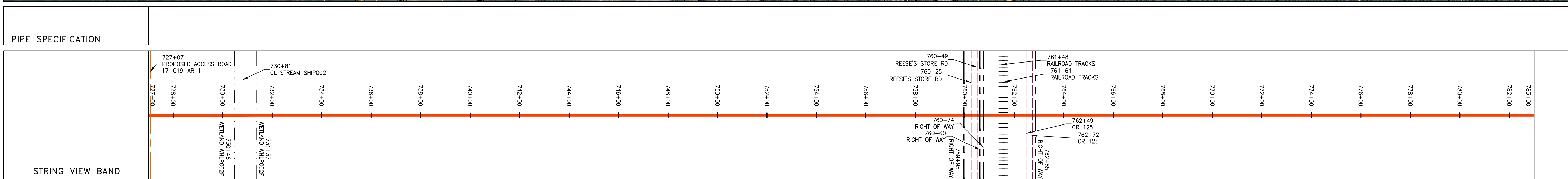
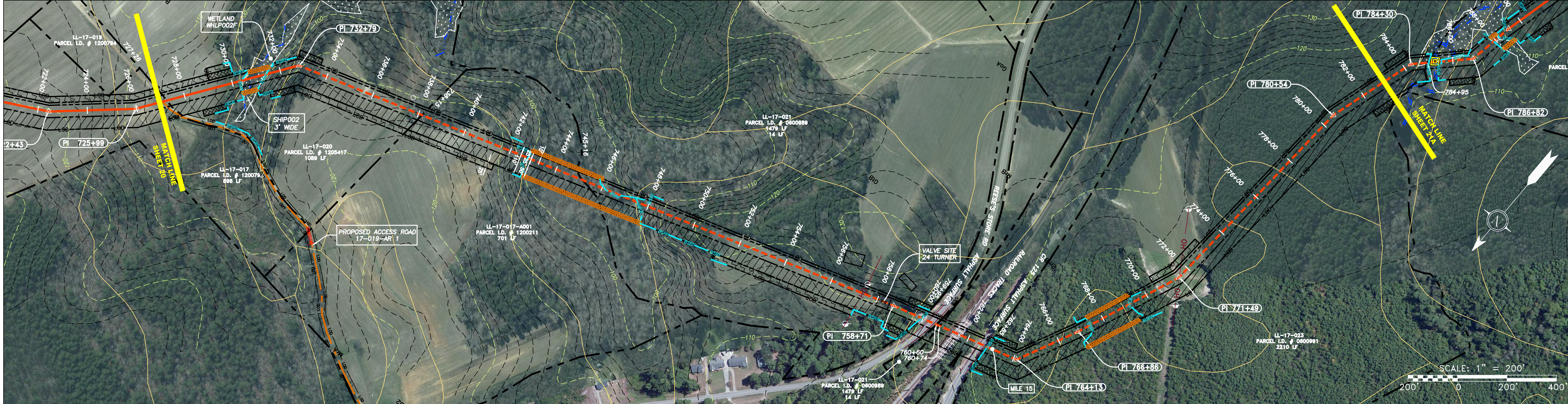
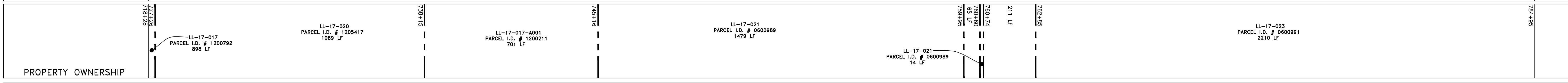
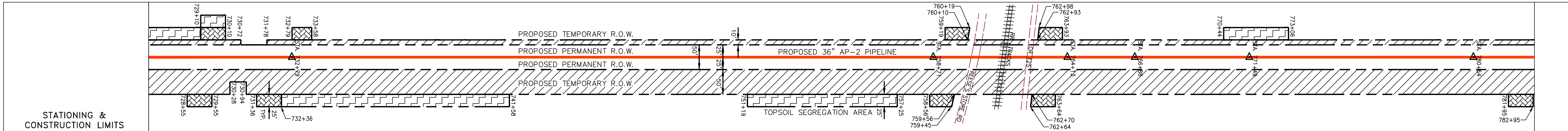
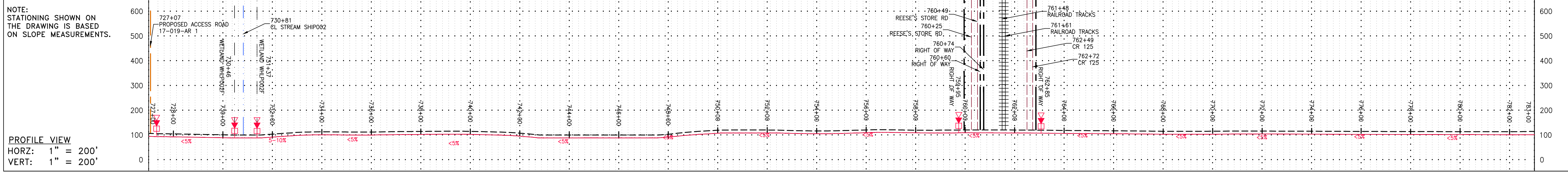
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

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

GAI CAD FILE NO. \\\TTC-FS1\THRASHER\050-5159 - GAI, INC. - SERP - MAPPING\SURVEY\DRAWING\RESTORED SHEETS- 1-13-17\SEC 9\FULL SET\SEC 9 SHEETS- 21-23 REV 12.DWG

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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)		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		LOD LIMIT OF DISTURBANCE BELTED SILT RETENTION FENCE (BSRF) COIR LOG COMPOST FILTER SOCK ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE	
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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	BY	CHKD.	APPD.	DESCRIPTION

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
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 GLEN ALLEN, VA 23060
 804-270-9357
 N.C. COL #10-0269

PROJECT NO./DASH NO.	C140468	
TASK NO.	005	00
GROUP ID	D	E021
21	OF 189	

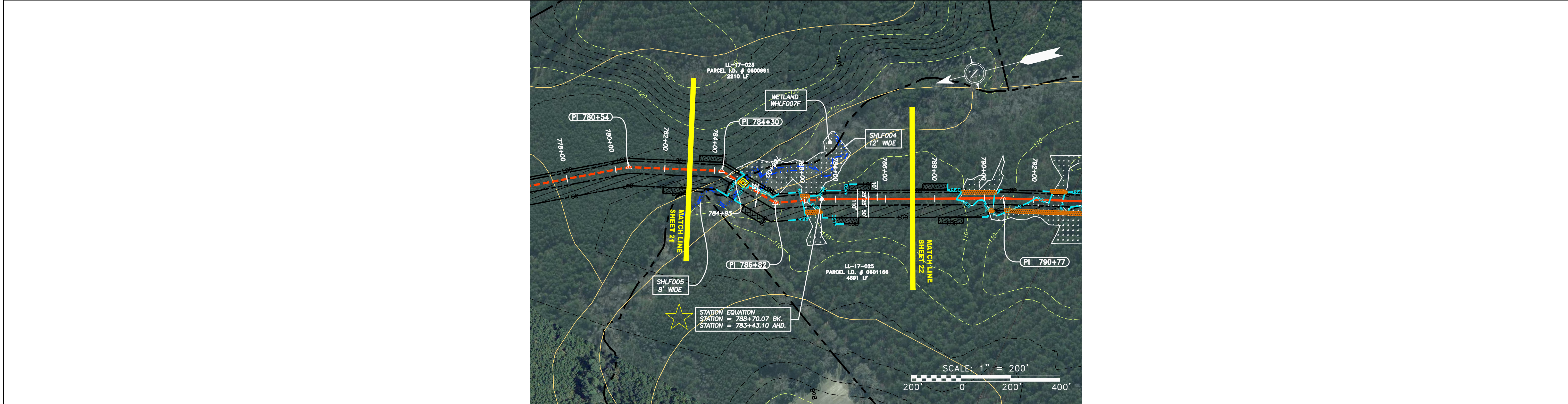
GAI CAD FILE NO. \ITG-FS1\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\RESTORED SHEETS- 1-13-17\SEC 9\FULL SET\SEC 9 SHEETS- 21-23 REV 12.DWG

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

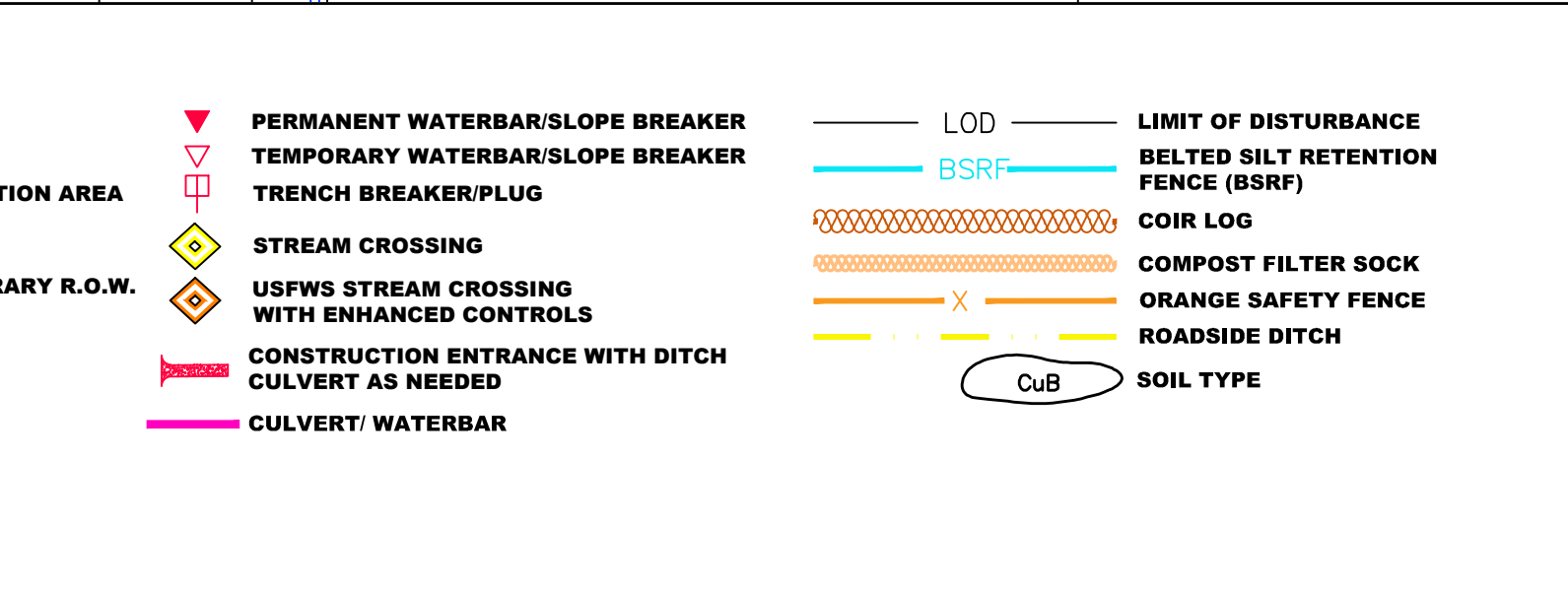
STRING VIEW BAND

LEGEND

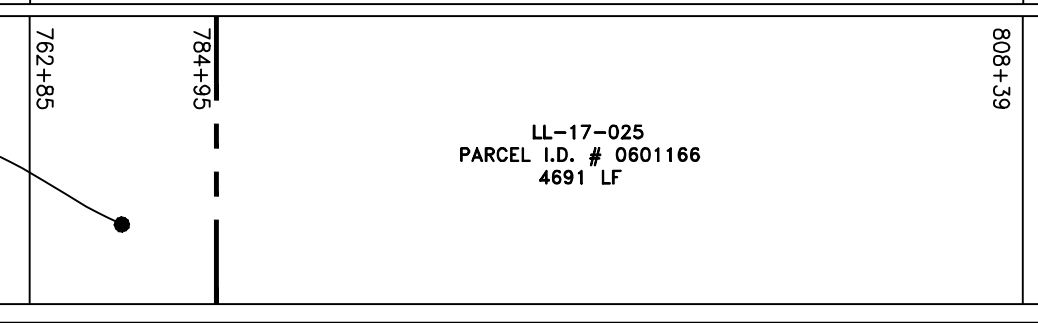
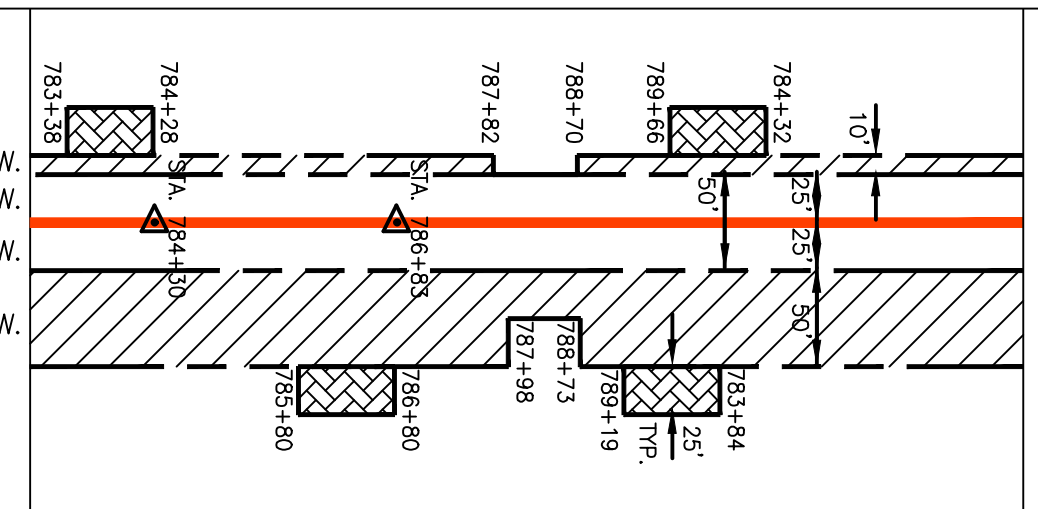
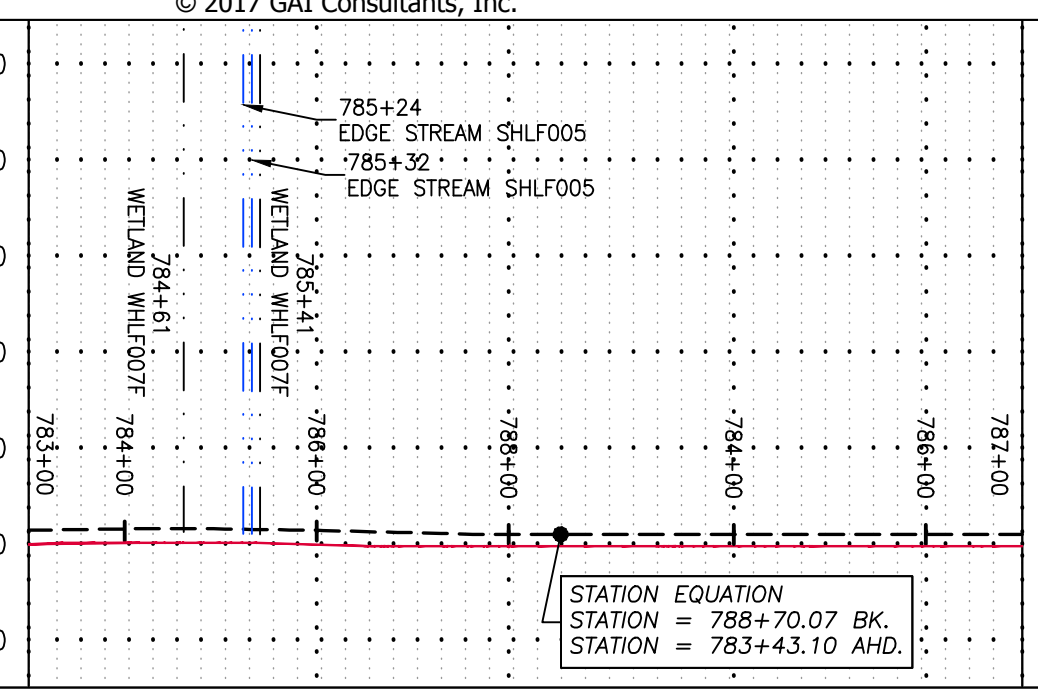
— X — X —	PROPERTY LINE	— E —	STORM SEWER		EXTRA WORK SPACE		TOPSOIL SEGREGATION AREA
— W —	FENCE	— W —	UNDERGROUND ELECTRIC		AREA OF NO DISTURBANCE		PROPOSED TEMPORARY R.O.W.
— G — G —	STREAM	— SAN —	WATER LINE		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		UTILITY POLE
— OH —	EXISTING GAS PIPELINE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

	PERMANENT WATERBAR/SLOPE BREAKER		LOD	LIMIT OF DISTURBANCE
	TEMPORARY WATERBAR/SLOPE BREAKER		BSRF	BELTED SILT RETENTION FENCE (BSRF)
	TRENCH BREAKER/PLUG		COIR LOG	COIR LOG
	STREAM CROSSING		COMPOST FILTER SOCK	COMPOST FILTER SOCK
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS		ROADSIDE DITCH	ROADSIDE DITCH
	CONSTRUCTION ENTRANCE WITH DITCH		SOIL TYPE	SOIL TYPE
	CULVERT/WATERBAR			

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



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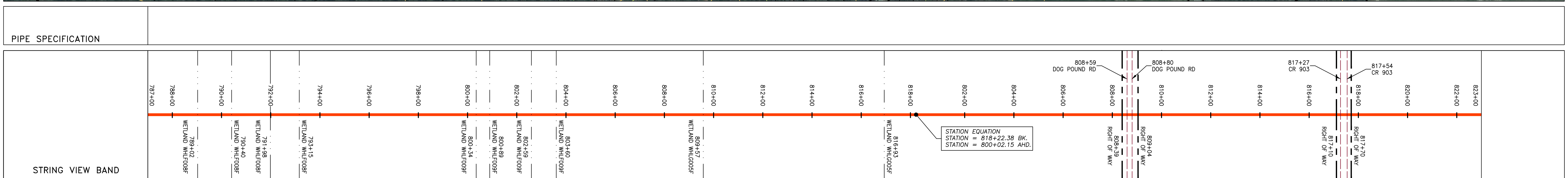
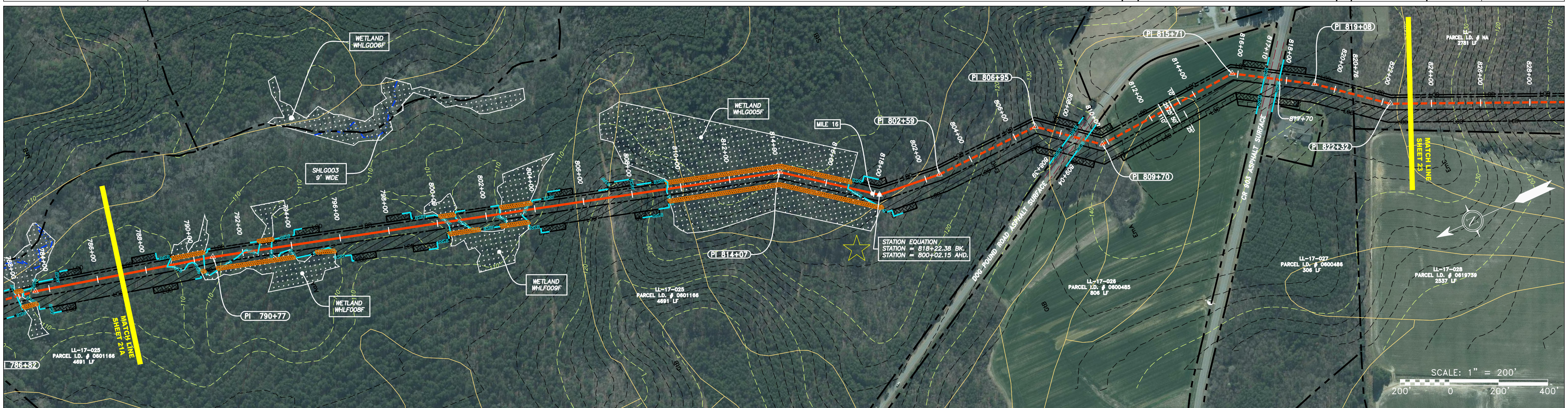
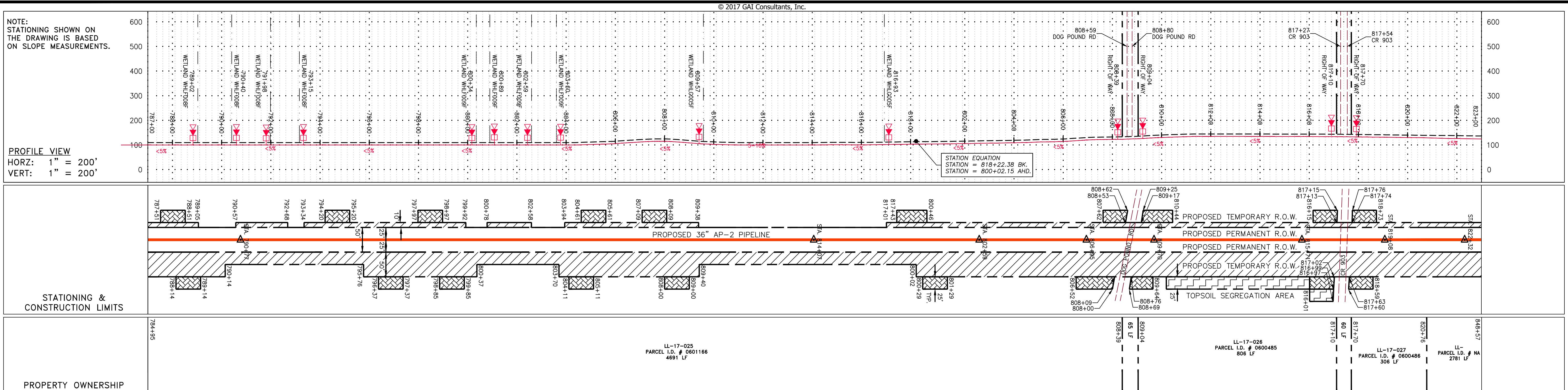
ATLANTIC COAST PIPELINE, LLC
 C/O DOMINION TRANSMISSION, INC.
 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

SCALE:	AS SHOWN
DATE:	06/09/17
DRAWN:	GPT
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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.	C140468	
TASK NO. SUB TASK NO.	005	00
GROUP ID DRAWING NO.	D	E021A
21A OF 189		

GAI CAD FILE NO. \ITG-FS\THRASHER\050-5159 - GAI, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\RESTORED SHEETS- 1-13-17\SEC 9\FULL SET\SEC 9 SHEETS- 21-23 REV 12.DWG



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 (COLOR 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 X] TEMPORARY WATERBAR/SLOPE BREAKER [Triangle with X] TRENCH BREAKER/PLUG [Diamond with X] STREAM CROSSING [Diamond with X] USFWS STREAM CROSSING WITH ENHANCED CONTROLS [Triangle with X] CONSTRUCTION ENTRANCE WITH DITCH [Triangle with X] 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] SOIL TYPE (CuB)		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 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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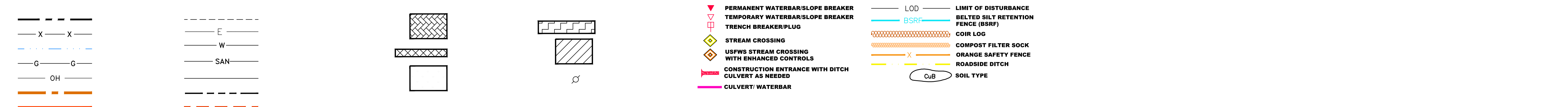
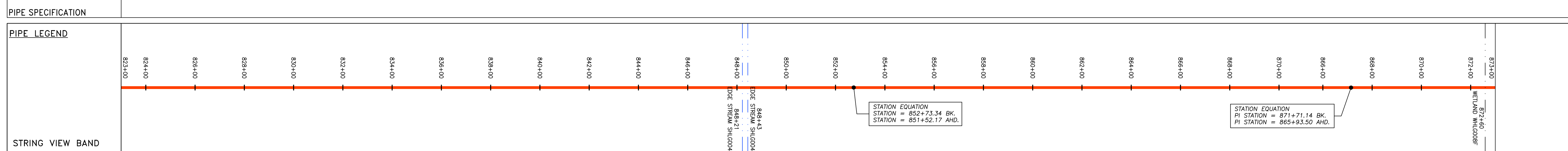
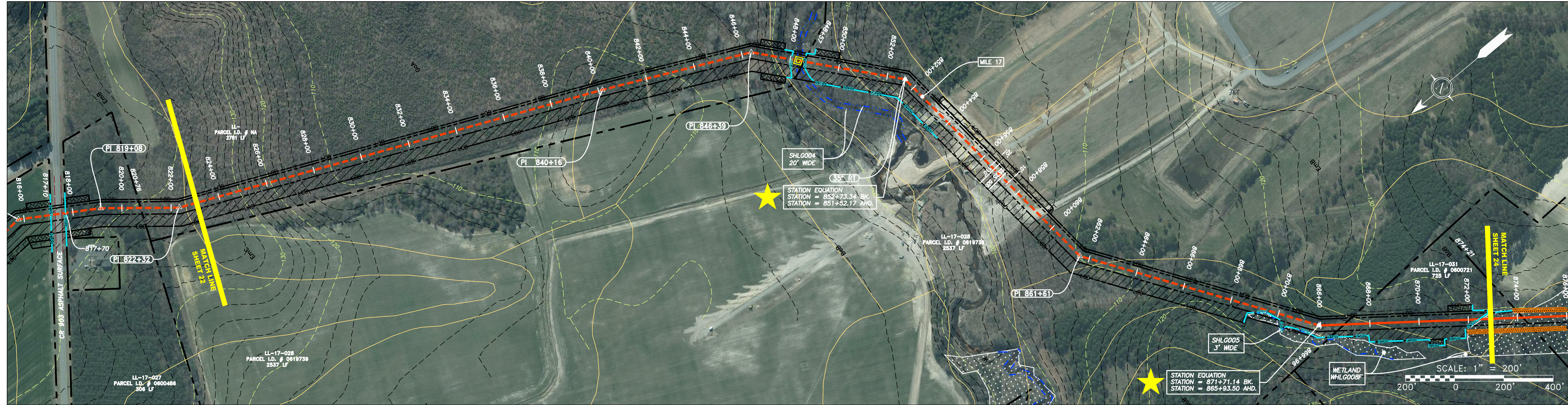
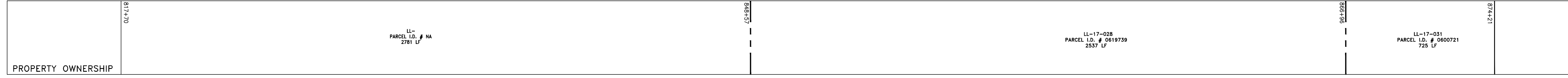
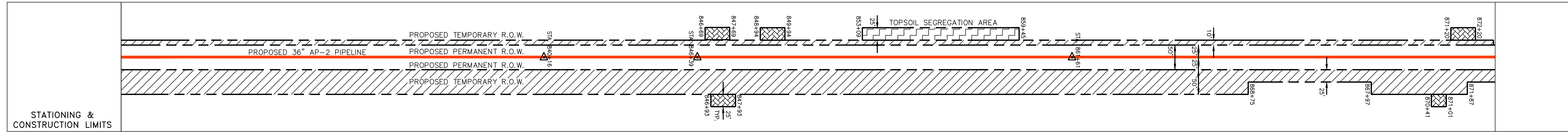
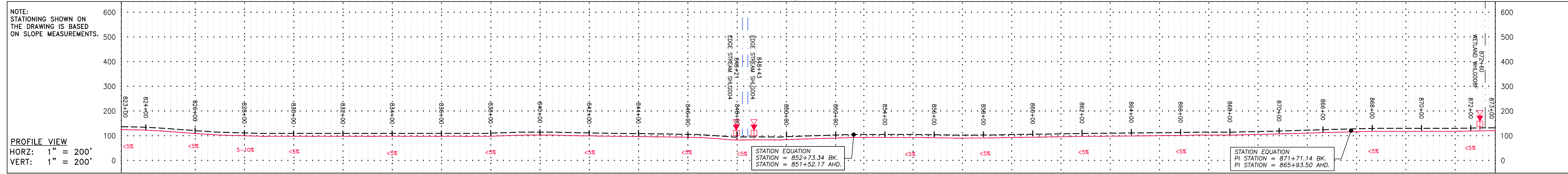
NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

36" AP-2 PIPELINE
CONSTRUCTION ALIGNMENT STA 787+00 TO 823+00
 HALIFAX 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.	C140468	
TASK NO.	005	00
GROUP ID	D	E022
22	OF 189	



NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION



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

CONSTRUCTION ALIGNMENT STA 823+00 TO 873+00
 HALIFAX COUNTY, NORTH CAROLINA

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

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 4198 COX ROAD
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PROJECT NO./DASH NO.	C140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E023
23 OF 189	