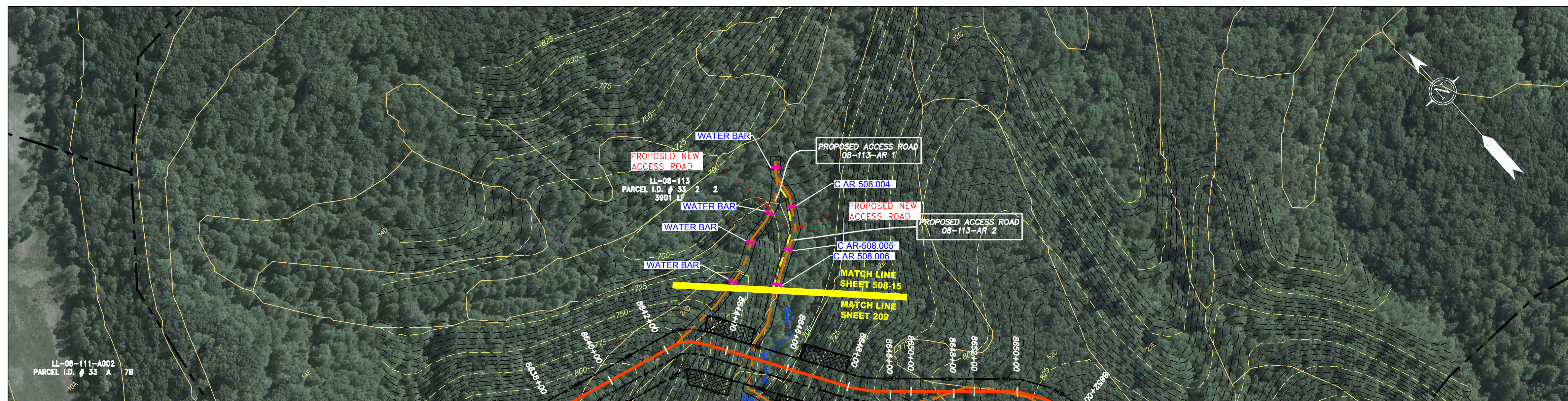


ACCESS ROAD
DETAIL 14



ACCESS ROAD
DETAIL 15

GAI CAD FILE NO. R:\050-5159 - GAI, INC. - THRASHER - SERP - MAPPING\SURVEY DRAWING\SEC 4\SEC 4 ACCESS ROAD DETAILS\SEC 4 - ACCESS ROAD DETAILS.DWG

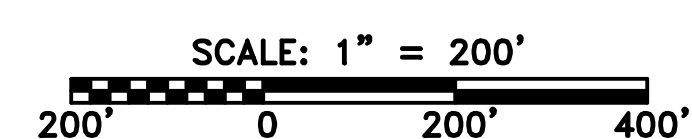
LEGEND

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

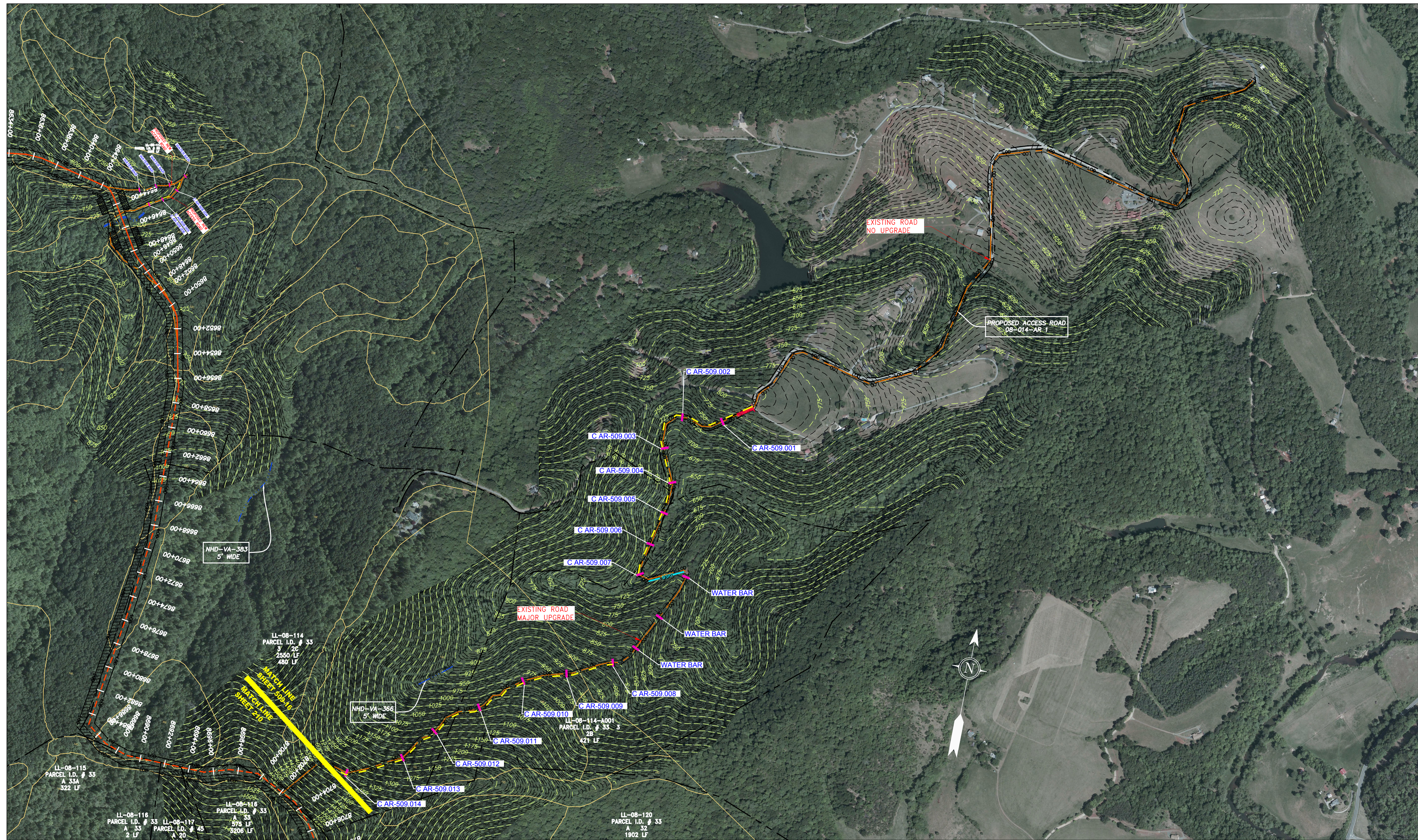
- | | | | |
|------------|--|----------|--|
| [Triangle] | PERMANENT WATERBAR/SLOPE BREAKER | — LOD — | LIMIT OF DISTURBANCE |
| [Triangle] | TEMPORARY WATERBAR/SLOPE BREAKER | — BSRF — | BELTED SILT RETENTION FENCE (BSRF) |
| [Triangle] | TRENCH BREAKER/PLUG | [Line] | COMPOST FILTER SOCK |
| [Diamond]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

NOTES:

- COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W, 11-07-2014.
- THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
- IMAGERY TAKEN FROM GOOGLE EARTH.
- STREAM AND WETLAND DATA SHOWN ON THE DRAWINGS WAS PROVIDED BY ERM.
- EROSION AND SEDIMENTATION CONTROL ELEMENTS MAY BE SHOWN OUTSIDE OF THE WORK AREAS FOR CLARITY ONLY. ACTUAL INSTALLATION SHALL BE WITHIN THE WORK AREAS.
- 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.
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- 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>42" AP-1 PIPELINE ACCESS ROAD DETAIL NELSON COUNTY, VIRGINIA</p> <p>ATLANTIC COAST PIPELINE, LLC C/O DOMINION TRANSMISSION, INC. 925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 10%;">DWN.</th> <th style="width: 10%;">CHKD.</th> <th style="width: 10%;">APPD.</th> <th style="width: 49%;">DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <p style="text-align: center;"> ERM </p>	NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION						
NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION								
<p>SCALE: AS SHOWN</p> <p>DATE: 3/24/17</p> <p>DRAWN: GPT</p> <p>CHECKED: DLH</p> <p>APPROVED: NET</p>													
 SOUTHPONTE OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-873-3545													
<p>PROJECT NO./DASH NO. 140468</p> <p>TASK NO. SUB TASK NO. 005 00</p> <p>GROUP ID DRAWING NO. D E508</p> <p>AR-508</p>													



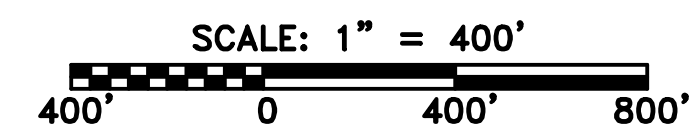
ACCESS ROAD
DETAIL 16

LEGEND

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

NOTES:

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



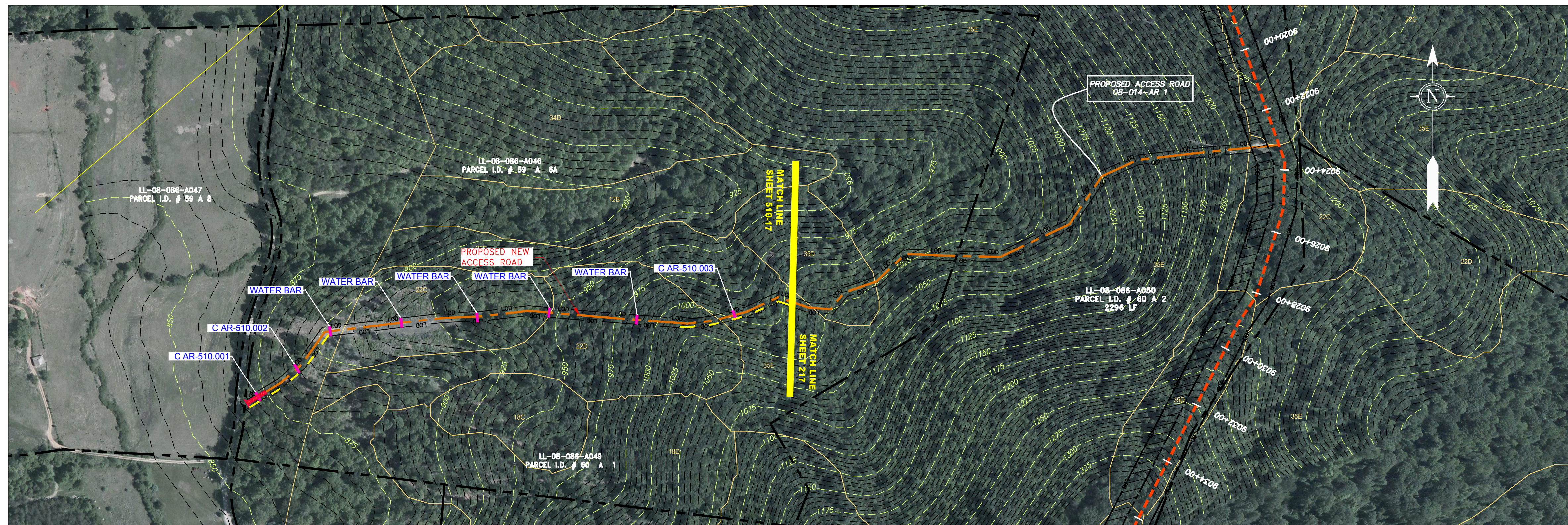
42" AP-1 PIPELINE
ACCESS ROAD DETAIL
NELSON COUNTY, VIRGINIA

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

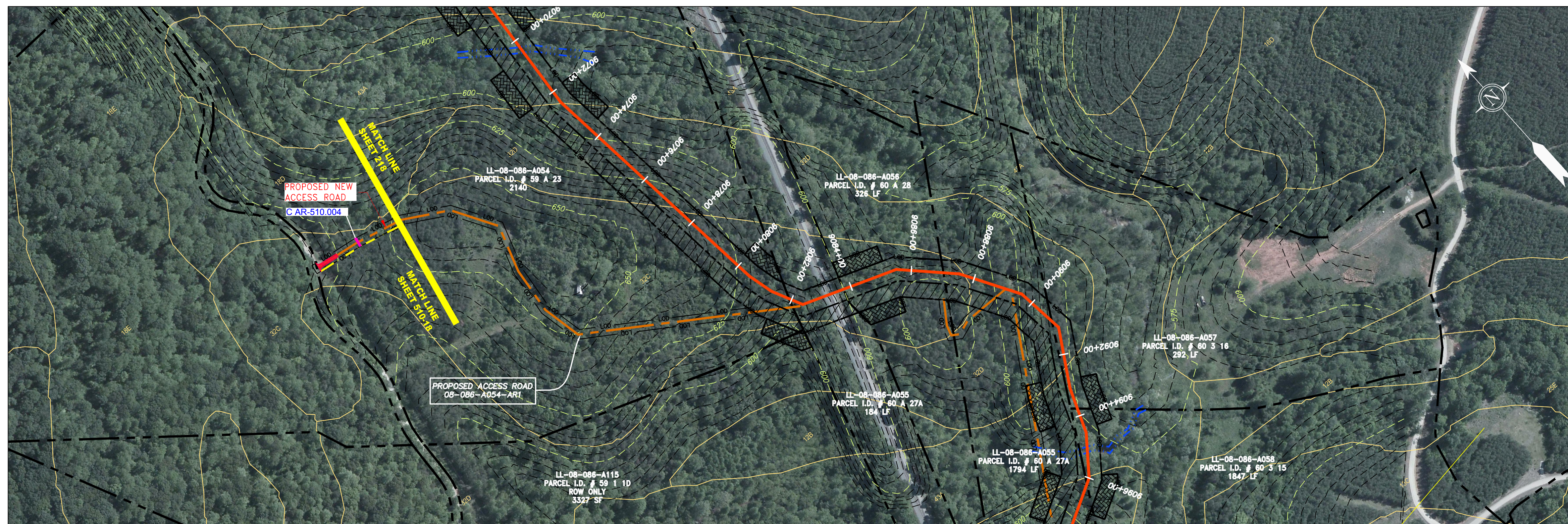
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DRAWN:	GPT
CHECKED:	DLH
APPROVED:	NET



PROJECT NO./DASH NO.	140468
TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E509
	AR-509

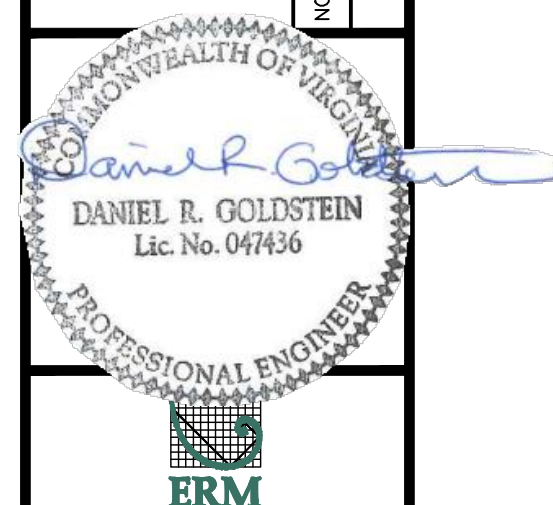


ACCESS ROAD
DETAIL 17



ACCESS ROAD
DETAIL 18

REVISIONS	
NO.	DATE



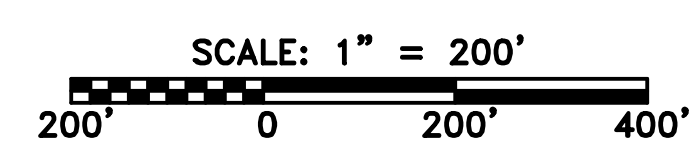
42" AP-1 PIPELINE
ACCESS ROAD DETAIL
NELSON COUNTY, VIRGINIA

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



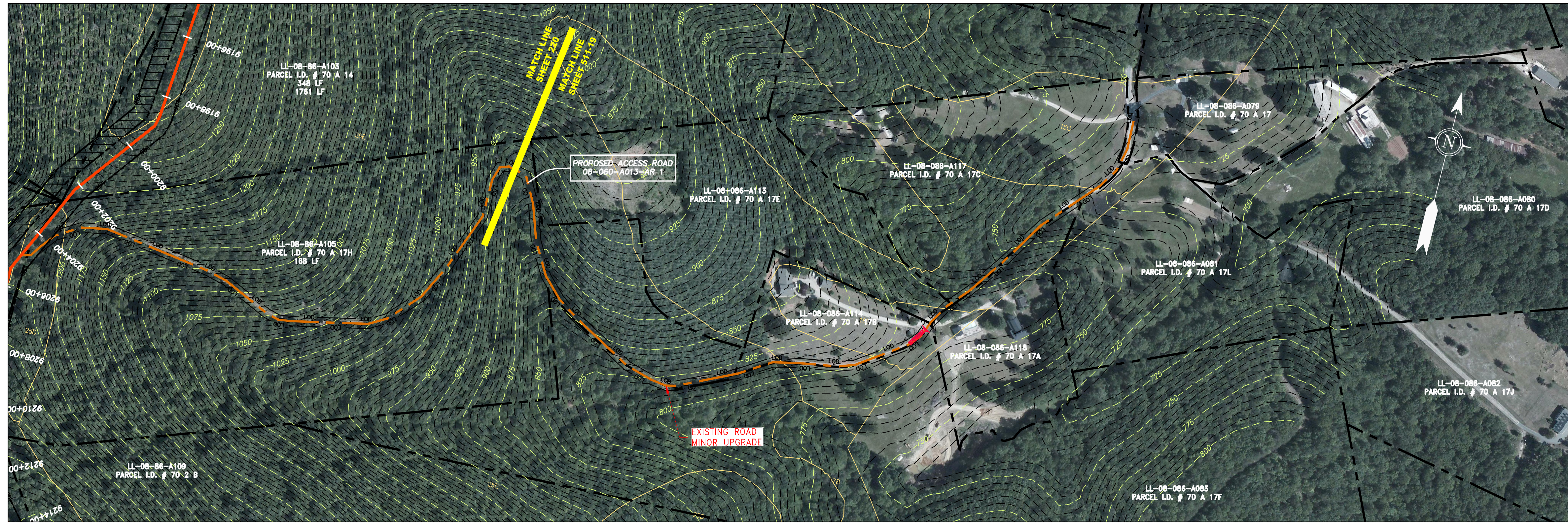
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TASK NO. SUB TASK NO.	005 00
GROUP ID DRAWING NO.	D E510
	AR-510



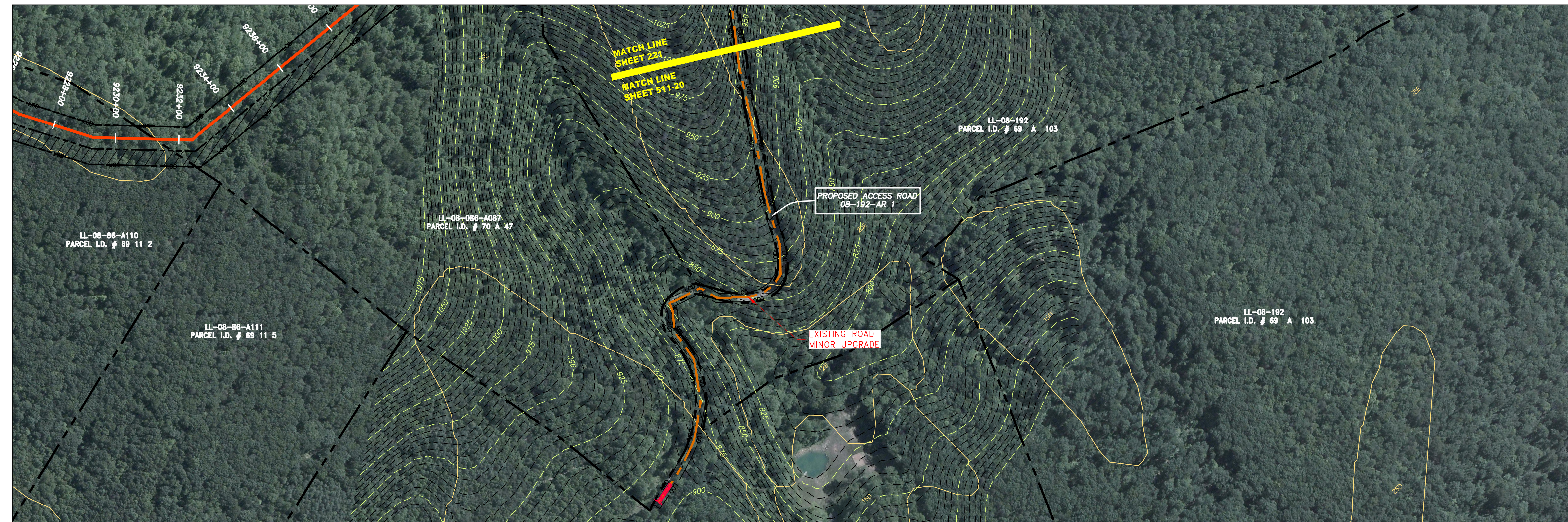
LEGEND	
	PROPERTY LINE
	FENCE
	STREAM
	EXISTING GAS PIPELINE
	OVERHEAD UTILITY LINES
	ACCESS ROAD
	PROPOSED GAS PIPELINE
	STORM SEWER
	UNDERGROUND ELECTRIC
	WATER LINE
	SANITARY SEWER
	EDGE OF GRAVEL
	PROPOSED PERMANENT EASEMENT
	PROPOSED GAS PIPELINE (NO GROUND SURVEY)
	EXTRA WORK SPACE
	AREA OF NO 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
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS
	SEEP
	SLOPE DIRECTION
	CONSTRUCTION ENTRANCE WITH DITCH
	CULVERT AS NEEDED
	CULVERT WATERBAR
	LOD
	BSRF
	111.03 SEDIMENT BARRIER IDENTIFICATION
	C 111.00 CULVERT IDENTIFICATION
	ORANGE SAFETY FENCE
	ROADSIDE DITCH
	SOIL TYPE
	A1 (E) 30-58% TYPICAL BIG SLOPE CATEGORY SLOPE INCLINATION

NOTES:

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ACCESS ROAD
DETAIL 19



ACCESS ROAD
DETAIL 20

GAI CAD FILE NO. \NTG-FS1\THRASHER\050-5159 - GIA, INC. - GAI - THRASHER - SERP - MAPPING\SURVEY\DRAWING\SEC 4\SEC 4 - ACCESS ROAD DETAILS.DWG

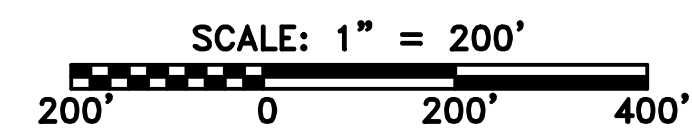
LEGEND

	PROPERTY LINE		STORM SEWER		EXTRA WORK SPACE		TOPSOIL SEGREGATION AREA
	FENCE		UNDERGROUND ELECTRIC		AREA OF NO DISTURBANCE		PROPOSED TEMPORARY R.O.W.
	STREAM		WATER LINE		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		UTILITY POLE
	EXISTING GAS PIPELINE		SANITARY SEWER	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).			
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL		PERMANENT WATERBAR/SLOPE BREAKER		LIMIT OF DISTURBANCE
	ACCESS ROAD		PROPOSED PERMANENT EASEMENT		TEMPORARY WATERBAR/SLOPE BREAKER		BELTED SILT RETENTION FENCE (BSRF)
	PROPOSED GAS PIPELINE		PROPOSED GAS PIPELINE (NO GROUND SURVEY)		STREAM CROSSING		USFWS STREAM CROSSING WITH ENHANCED CONTROLS
					SLOPE DIRECTION		CONSTRUCTION ENTRANCE WITH DITCH
					CULVERT AS NEEDED		CULVERT WITH DITCH
					CULVERT WATERBAR		111.03
							30-58%

	LIMIT OF DISTURBANCE		SOIL TYPE
	BELTED SILT RETENTION FENCE (BSRF)		TYPICAL BIG SLOPE CATEGORY
	COMPOSITE FILTER SOCK		SLOPE INCLINATION
	SEDIMENT BARRIER IDENTIFICATION		
	CULVERT IDENTIFICATION		
	ORANGE SAFETY FENCE		
	ROADSIDE DITCH		

NOTES:

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PROJECT NO./DASH NO. 140468	
TASK NO. SUB TASK NO. 005 00	
GROUP ID DRAWING NO. D E511	
AR-511	

NO.	DATE	DWN.	CHKD.	APPD.	DESCRIPTION

47" AP-1 PIPELINE
ACCESS ROAD DETAIL
BUCKINGHAM COUNTY, VIRGINIA

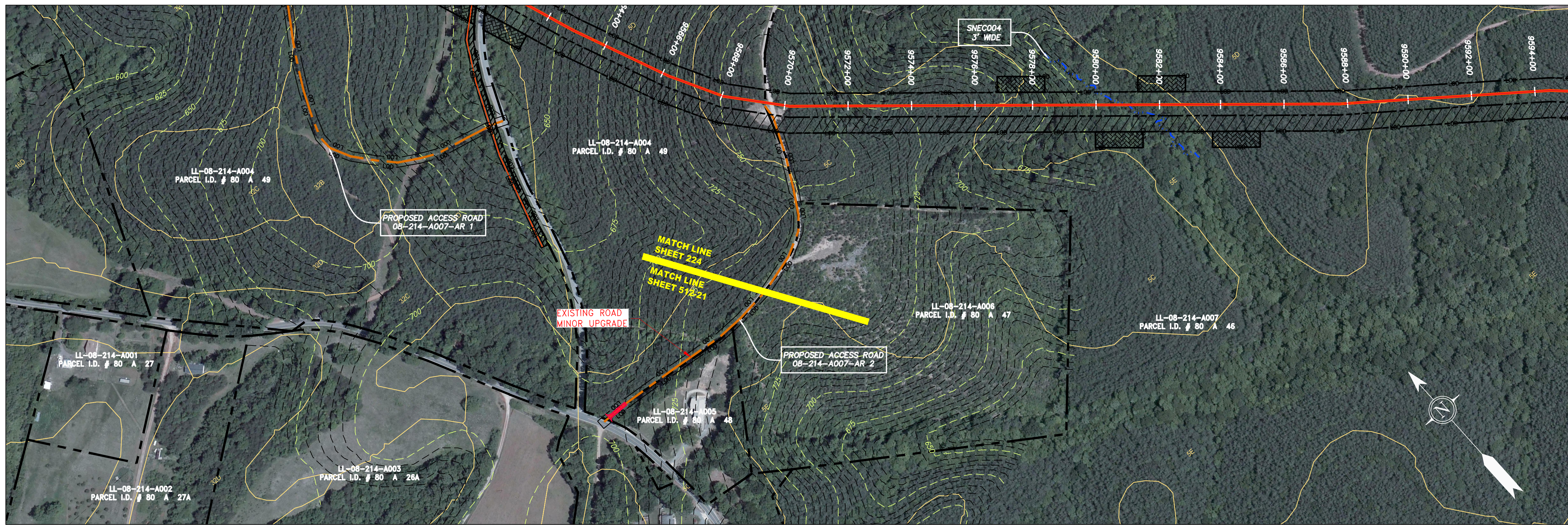
ATLANTIC COAST PIPELINE, LLC
C/O DOMINION TRANSMISSION, INC.
925 WHITE OAKS BLVD., BRIDGEPORT, WV 26330

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

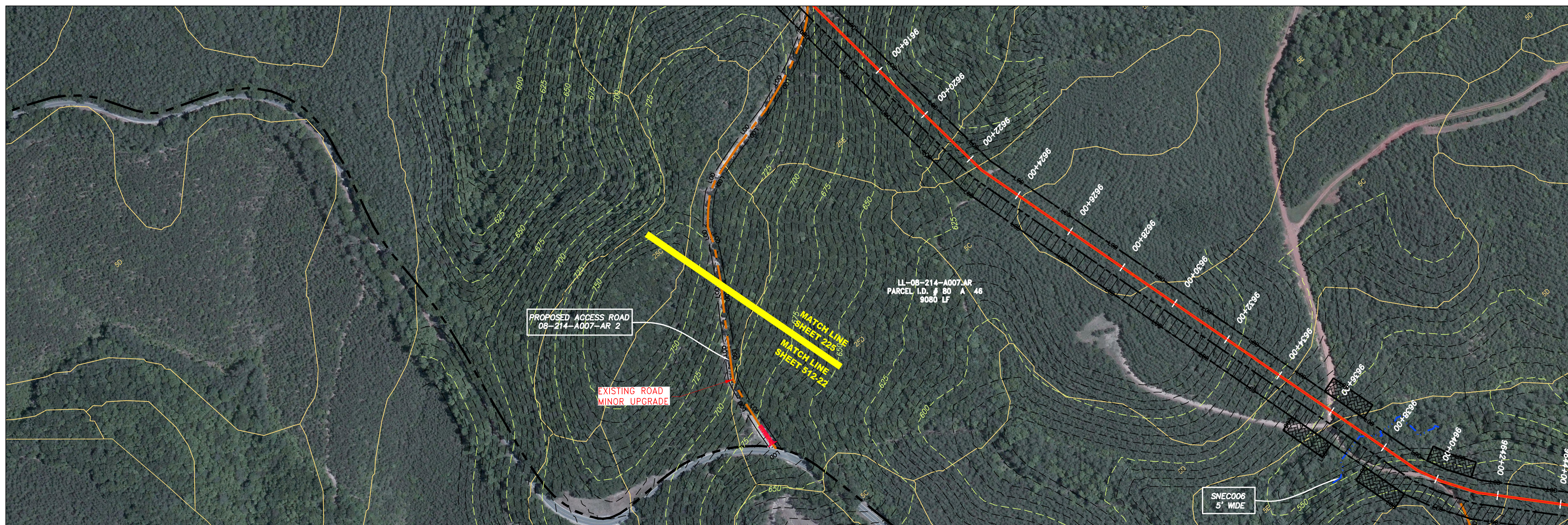
gai consultants

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

ERM



ACCESS ROAD
DETAIL 21



ACCESS ROAD
DETAIL 22

GAI CAD FILE NO. R:\050-5159 -- GAI, INC. -- SERP -- MAPPING\SURVEY\DRAWING\SEC 4\SEC 4 ACCESS ROAD DETAILS\SEC 4 -- ACCESS ROAD DETAILS.DWG

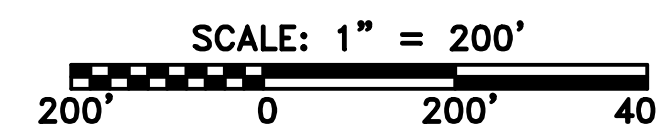
LEGEND

	PROPERTY LINE		STORM SEWER		EXTRA WORK SPACE		TOPSOIL SEGREGATION AREA
	FENCE		UNDERGROUND ELECTRIC		AREA OF NO DISTURBANCE		PROPOSED TEMPORARY R.O.W.
	STREAM		WATER LINE		WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY)		UTILITY POLE
	EXISTING GAS PIPELINE		SANITARY SEWER	NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12).			
	OVERHEAD UTILITY LINES		EDGE OF GRAVEL		PERMANENT WATERBAR/SLOPE BREAKER		TEMPORARY WATERBAR/SLOPE BREAKER
	ACCESS ROAD		PROPOSED PERMANENT EASEMENT		STREAM CROSSING		USFWS STREAM CROSSING WITH ENHANCED CONTROLS
	PROPOSED GAS PIPELINE		PROPOSED GAS PIPELINE (NO GROUND SURVEY)		SLOPE DIRECTION		CULVERT AS NEEDED
					SLOPE DIRECTION		CONSTRUCTION ENTRANCE WITH DITCH
					CULVERT WATERBAR		CULVERT WATERBAR

	LOD		LIMIT OF DISTURBANCE
	BSRF		BELTED SILT RETENTION FENCE (BSRF)
	111.03		SEDIMENT BARRIER IDENTIFICATION
	C 111.001		CULVERT IDENTIFICATION
	ORANGE SAFETY FENCE		ROADSIDE DITCH
	SEEP		SOIL TYPE
	30-58%		TYPICAL BIG SLOPE CATEGORY
	30-58%		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.
- ACCESS ROADS MATING 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.4.5 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.



PROJECT NO./DASH NO. 140468	
TASK NO. SUB TASK NO. 005 00	
GROUP ID DRAWING NO. D E512	
AR-512	

NO.	DATE	DWN.	CHKD.	APPVD.	DESCRIPTION

42" AP-1 PIPELINE
ACCESS ROAD DETAIL
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 BLVD.
CANONSBURG, PA 15317
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Professional Engineer
DANIEL R. GOLDSTEIN
Lic. No. 047436

ERM