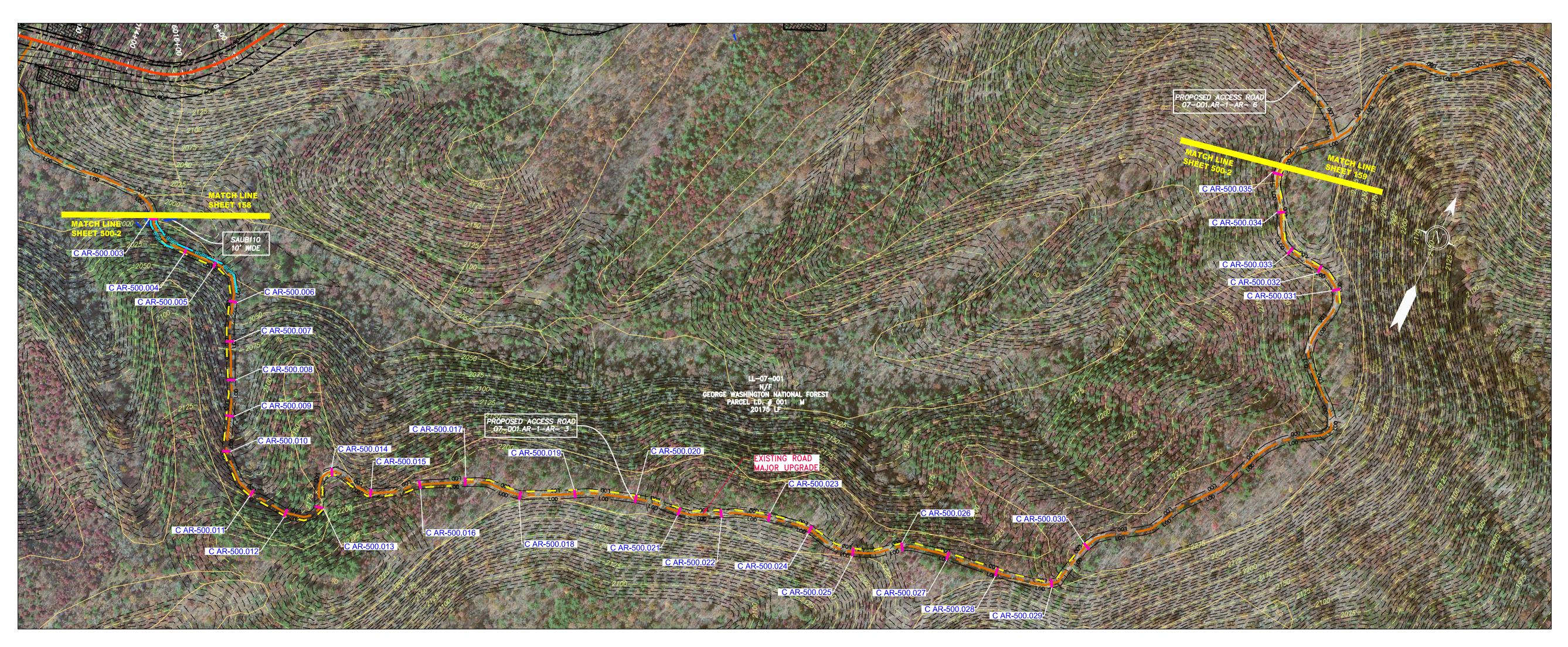
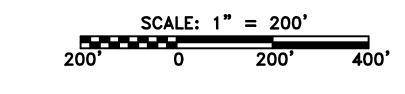
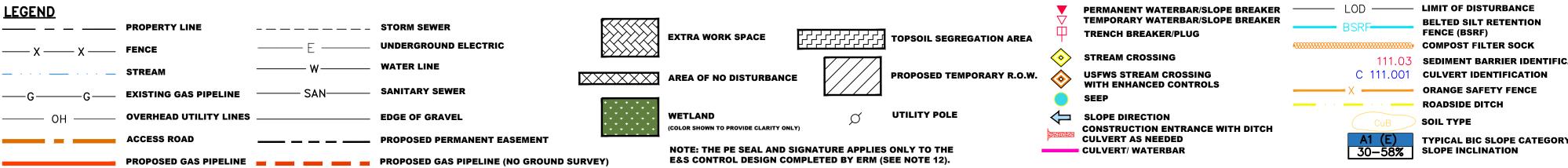
ACCESS ROAD DETAIL 1







BREAKER BREAKER	LOD	LIMIT OF DISTURBANCE	OTES:
	BSRF-	BELTED SILT RETENTION FENCE (BSRF)	3.
	f>>>>>>	COMPOST FILTER SOCK	4.
	111.03	SEDIMENT BARRIER IDENTIFICATION	N 5. 6.
	C 111.001	CULVERT IDENTIFICATION	7.
	X	ORANGE SAFETY FENCE	8. 9.
		ROADSIDE DITCH	10. 11.
н DITCH		SOIL TYPE	
	A1 (F)	TYPICAL BIC SLOPE CATEGORY	12.
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	TITIOAL DIO GLOFE GATEGORI	40

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.

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.

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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 IN CLASS (BIC) 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; DRAINAGE FEATURES WILL BE PROVIDED FOR ROADS IN CATEGORIES 3 AND 4.

12. "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.

13. THE CONSTRUCTION RIGHT-OF-WAY (ROW) WILL BE RESTORED TO PRE-CONSTRUCTION CONTOURS IN ACCORDANCE WITH SECTION V.A.5. IN ADDITION, WETLAND AND WATERBODY CROSSINGS WILL BE RESTORED TO PRE-CONSTRUCTIO

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.

FRM

SCALE: AS SHOWN 6/20/17 DRAWN: **GPT**

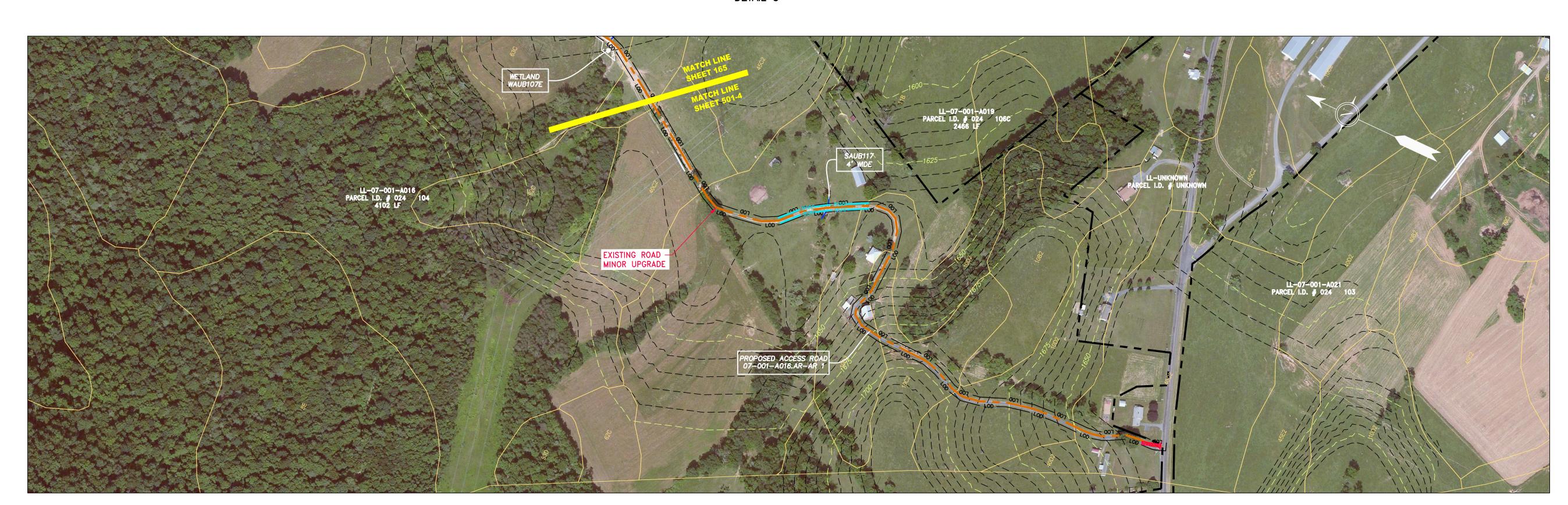
CHECKED: **DLH** APPROVED: **NET**

gai consultants

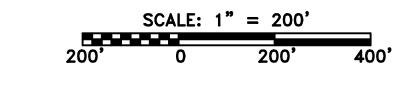
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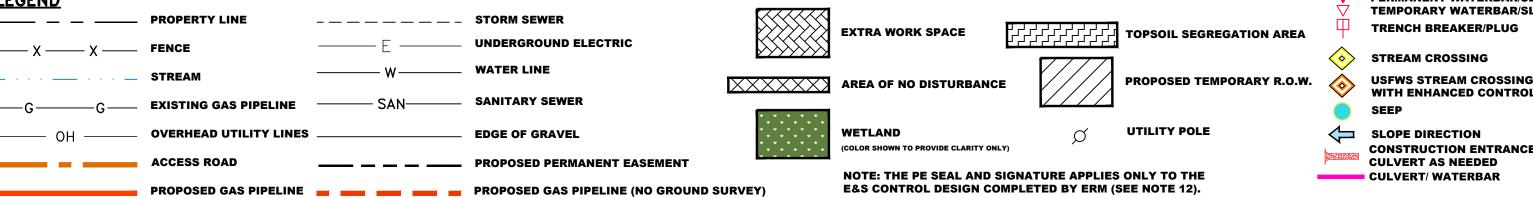
PROJECT NO./DASH NO 140468

TASK NO. SUB TASK NO 00 GROUP ID DRAWING NO. E500



ACCESS ROAD DETAIL 4





\blacksquare	PERMANENT WATERBAR/SLOPE BREAKER	LOD	LIMIT OF DISTURBANCE	NOTE
\Box	TEMPORARY WATERBAR/SLOPE BREAKER	BSRF——	BELTED SILT RETENTION FENCE (BSRF)	
4	TRENCH BREAKER/PLUG	f()()()()()()()()()()()()()()()()()()()	COMPOST FILTER SOCK	
	STREAM CROSSING	111.03	SEDIMENT BARRIER IDENTIFICAT	ION
	USFWS STREAM CROSSING WITH ENHANCED CONTROLS SEEP	C 111.001	CULVERT IDENTIFICATION	
		X	ORANGE SAFETY FENCE	
4			ROADSIDE DITCH	
—	SLOPE DIRECTION CONSTRUCTION ENTRANCE WITH DITCH		SOIL TYPE	
	CULVERT AS NEEDED	A1 (E)	TYPICAL BIC SLOPE CATEGORY	
	CULVERT/ WATERBAR	30-58%	SLOPE INCLINATION	

NOTES:1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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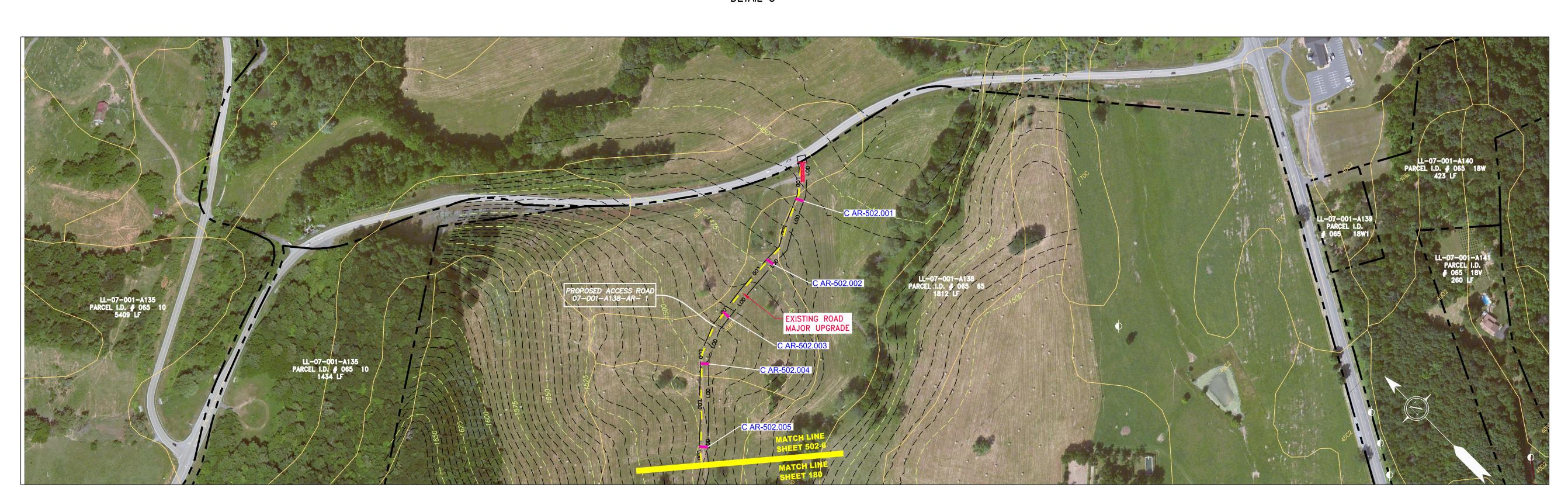
11-07-2014.
3. IMAGERY TAKEN FROM GOOGLE EARTH.
4. THE PROPERTY LINES SHOWN ARE BASED ON GIS & TAX ASSESSMENT RECORDS (PROVIDED BY OTHERS). GAI CONSULTANTS MAKE NO GUARANTEE EITHER EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE RECORDS AS SHOWN ON THESE DRAWINGS.
5. STREAM AND WETLAND DATA SHOWN ON THE 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. BEST IN CLASS (BIC) 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.
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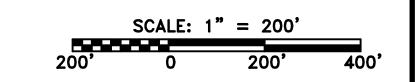
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ERM SCALE: AS SHOWN 6/20/17 DRAWN: **GPT** CHECKED: **DLH** APPROVED: **NET** gai consultants SOUTHPOINTE OFFICE 6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724–873–3545

> PROJECT NO./DASH NO. 140468 TASK NO. SUB TASK NO 00 GROUP ID DRAWING NO. E501

ACCESS ROAD DETAIL 5





_ _ _ _ _ _ _ _ STORM SEWER **EXTRA WORK SPACE** TOPSOIL SEGREGATION AREA PROPOSED TEMPORARY R.O.W. AREA OF NO DISTURBANCE -G - SAN- SANITARY SEWER UTILITY POLE ____ OVERHEAD UTILITY LINES . ACCESS ROAD PROPOSED PERMANENT EASEMENT NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12). PROPOSED GAS PIPELINE PROPOSED GAS PIPELINE (NO GROUND SURVEY)

PERMANENT WATERBAR/SLOPE BREAKER ——— LOD ——— LIMIT OF DISTURBANCE TEMPORARY WATERBAR/SLOPE BREAKER TRENCH BREAKER/PLUG STREAM CROSSING **USFWS STREAM CROSSING** WITH ENHANCED CONTROLS SLOPE DIRECTION CONSTRUCTION ENTRANCE WITH DITCH CULVERT AS NEEDED CULVERT/ WATERBAR

30-58% SLOPE INCLINATION

BELTED SILT RETENTION FENCE (BSRF) TYPICAL BIC SLOPE CATEGORY

COMPOST FILTER SOCK 111.03 SEDIMENT BARRIER IDENTIFICATION C 111.001 CULVERT IDENTIFICATION ORANGE SAFETY FENCE ROADSIDE DITCH SOIL TYPE

NOTES:1. COORDINATE SYSTEM USED FOR MAPPING AND TOPOGRAPHY - UTM WITH NAD83 DATUM, ZONE 17, US SURVEY FOOT, CENTRAL MERIDIAN 81° W.
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11-07-2014.

11-07-2014.

3. IMAGERY TAKEN FROM GOOGLE EARTH.

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DANIEL R. GOLDSTEIN

ERM

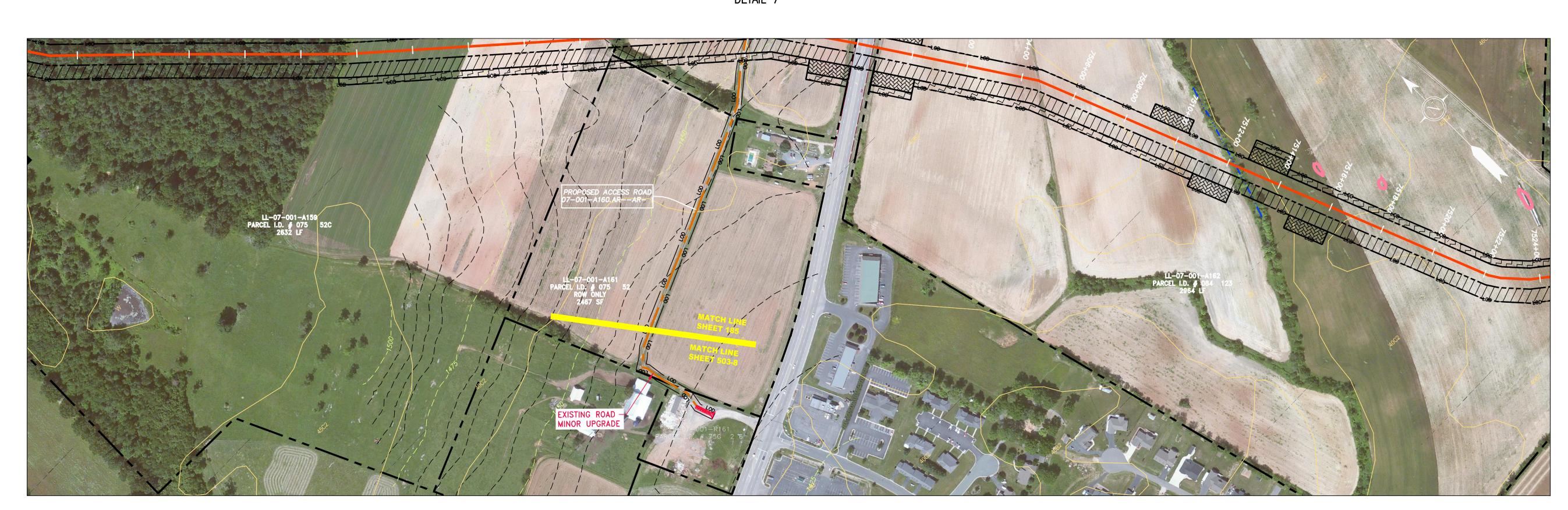
SCALE: AS SHOWN 6/20/17 DRAWN: **GPT** CHECKED: **DLH** APPROVED: **NET**

gai consultants

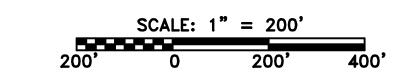
6000 TOWN CENTER BLVD. CANONSBURG, PA 15317 724-873-3545

PROJECT NO./DASH NO 140468 00

TASK NO. SUB TASK NO GROUP ID DRAWING NO. E502 AR-502



ACCESS ROAD DETAIL 8



DANIEL R. GOLDSTEIN

FRM

SCALE: AS SHOWN

gai consultants

PROJECT NO./DASH NO.

140468

TASK NO. SUB TASK NO

GROUP ID DRAWING NO.

AR-503

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E503

005

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

DRAWN: **GPT**

CHECKED: **DLH**

APPROVED: **NET**

6/20/17

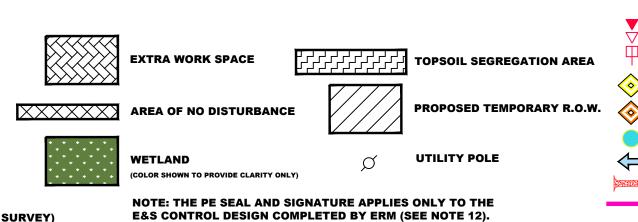


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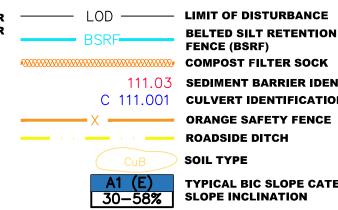
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_____ PROPERTY LINE _ _ _ _ _ _ _ _ STORM SEWER _____ E ____ UNDERGROUND ELECTRIC ____ X ____ X ____ FENCE _____ W____ WATER LINE ——G———G—— EXISTING GAS PIPELINE ———— SAN———— SANITARY SEWER OVERHEAD UTILITY LINES ______ EDGE OF GRAVEL ACCESS ROAD PROPOSED PERMANENT EASEMENT PROPOSED GAS PIPELINE PROPOSED GAS PIPELINE (NO GROUND SURVEY)







BELTED SILT RETENTION FENCE (BSRF) COMPOST FILTER SOCK 111.03 SEDIMENT BARRIER IDENTIFICATION C 111.001 CULVERT IDENTIFICATION ROADSIDE DITCH SOIL TYPE A1 (E) TYPICAL BIC SLOPE CATEGORY

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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.

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DANIEL R. GOLDSTEIN ERM

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



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PROJECT NO./DASH NO 140468 TASK NO. SUB TASK NO 00 GROUP ID DRAWING NO. E504

CULVERT/ WATERBAR

PROPOSED GAS PIPELINE PROPOSED GAS PIPELINE (NO GROUND SURVEY)

30-58% SLOPE INCLINATION

_____ PROPERTY LINE _ _ _ _ _ _ _ _ STORM SEWER EXTRA WORK SPACE TOPSOIL SEGREGATION AREA _____ E ____ UNDERGROUND ELECTRIC ______ W_____ WATER LINE PROPOSED TEMPORARY R.O.W. AREA OF NO DISTURBANCE ____G____ EXISTING GAS PIPELINE _____ SAN_____ SANITARY SEWER UTILITY POLE _____OVERHEAD UTILITY LINES _____ WETLAND (COLOR SHOWN TO PROVIDE CLARITY ONLY) ACCESS ROAD ____ PROPOSED PERMANENT EASEMENT NOTE: THE PE SEAL AND SIGNATURE APPLIES ONLY TO THE E&S CONTROL DESIGN COMPLETED BY ERM (SEE NOTE 12). PROPOSED GAS PIPELINE PROPOSED GAS PIPELINE (NO GROUND SURVEY)

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ORANGE SAFETY FENCE 30-58% SLOPE INCLINATION

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140468 TASK NO. SUB TASK NO 00 GROUP ID DRAWING NO. E506 AR-506

PROJECT NO./DASH NO

ERM

SCALE: AS SHOWN

gai consultants

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

DRAWN: **GPT**

CHECKED: **DLH**

APPROVED: **NET**

6/20/17