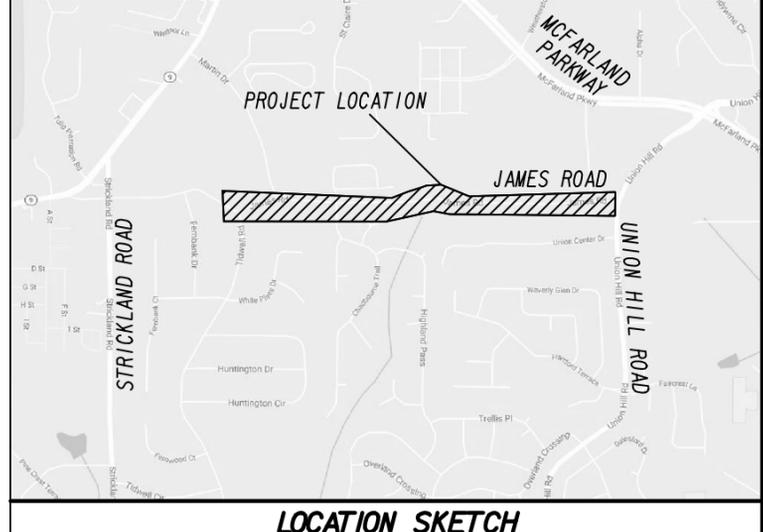


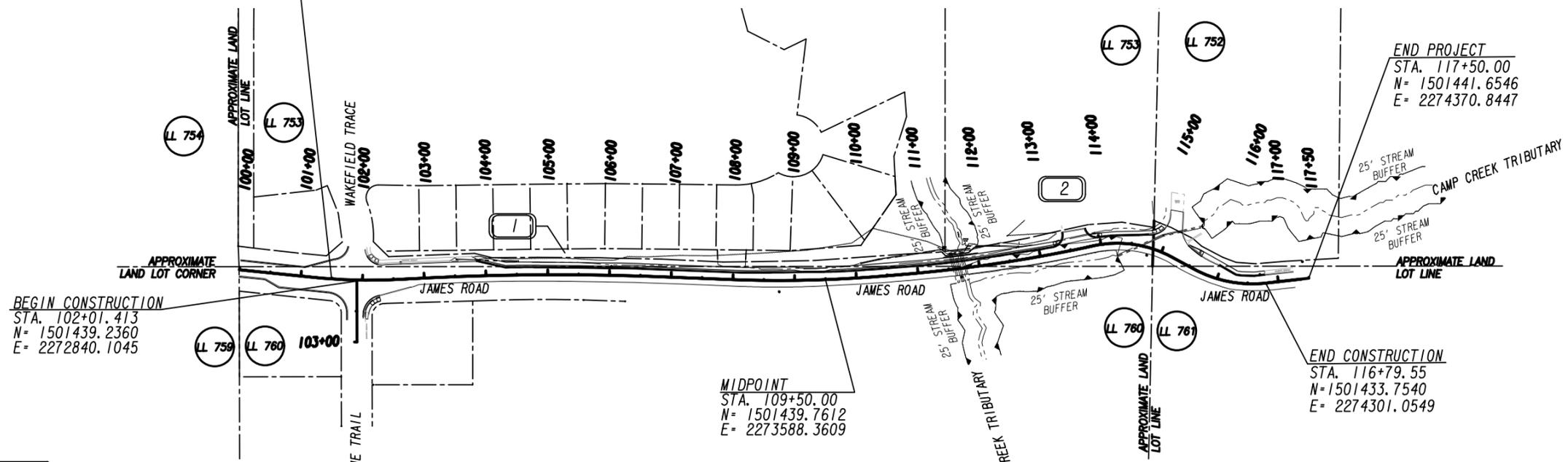
DEPARTMENT OF ENGINEERING FORSYTH COUNTY

JAMES ROAD SIDEWALK IMPROVEMENTS



DESIGN SPEED:
JAMES ROAD - 25 MPH

BEGIN PROJECT
STA. 101+50.00
N = 1501441.2378
E = 2272788.7370



BEGIN CONSTRUCTION
STA. 102+01.413
N = 1501439.2360
E = 2272840.1045

MIDPOINT
STA. 109+50.00
N = 1501439.7612
E = 2273588.3609

END PROJECT
STA. 117+50.00
N = 1501441.6546
E = 2274370.8447

END CONSTRUCTION
STA. 116+79.55
N = 1501433.7540
E = 2274301.0549

THIS PROJECT HAS BEEN PREPARED RELATIVE TO THE GEORGIA STATE PLANE COORDINATE SYSTEM, WEST ZONE AS REFERENCED TO NAD83 (2011) HORIZONTAL AND NAD83 (GEOID2012) VERTICAL.

NOTE:
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO "STATE HIGHWAY DEPARTMENT OF GEORGIA," "STATE HIGHWAY DEPARTMENT," "GEORGIA STATE HIGHWAY DEPARTMENT," "HIGHWAY DEPARTMENT," OR "DEPARTMENT" WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.

PREPARED UNDER THE SUPERVISION OF: JEAN K. YU, PE



LENGTH OF PROJECT	
	MILES
NET LENGTH OF ROADWAY	0.3030
NET LENGTH OF BRIDGES	0.0000
NET LENGTH OF PROJECT	0.3030
NET LENGTH OF EXCEPTIONS	0.0000
GROSS LENGTH OF PROJECT	0.3030

PLANS COMPLETED	
REVISIONS	

DRAWING No. **01-0001**

GENERAL NOTES

1. A N.O.I. IS NOT REQUIRED FOR THIS PROJECT. THE TOTAL DISTURBED AREA IS 0.41 ACRES. THE TOTAL PROJECT AREA IS 1.16 ACRES.
2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES HAVE BEEN LOCATED THROUGH FIELD SURVEY AND COORDINATION WITH UTILITY COMPANIES FOR EXISTING LOCATIONS. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON HIGHWAY PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE HIGHWAY PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. ALL UTILITY FACILITIES, WHICH ARE IN CONFLICT WITH CONSTRUCTION ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.
3. UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 OF THE GADOT STANDARDS SPECIFICATION. "COOPERATION WITH UTILITIES".

4. INGRESS/EGRESS SHALL BE MAINTAINED TO ALL EXISTING DRIVEWAYS.
5. ALL EXISTING DRAINAGE PIPES AND STRUCTURES ARE TO REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR SHALL ESTABLISH AND MAINTAIN DRAINAGE THROUGHOUT THE PROJECT.
6. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE PLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. ALL DIRT DRIVES SHALL BE PAVED TO THE BACK OF SIDEWALK AND SIDEWALK SHALL TIE FLUSH TO THE EDGE OF EXISTING PAVED DRIVES ON OLD ATLANTA ROAD. DRIVEWAY RELOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVEWAYS OR AS LOCATED IN THE PLANS. RESIDENTIAL DRIVES SHALL BE 14 FEET WIDE AT THE THROAT UNLESS NOTED OTHERWISE IN THE PLANS. COMMERCIAL DRIVES SHALL BE 24 FEET WIDE UNLESS NOTED OTHERWISE IN THE PLANS. THE CONTRACTOR SHALL OBTAIN THE APPROVAL FROM THE ENGINEER PRIOR TO MAKING ANY REVISIONS TO LOCATION, WIDTH, AND/OR NUMBER OF DRIVES TO BE CONSTRUCTED. REQUIRED DRIVEWAY EASEMENTS NOT SHOWN ON THE PLANS SHALL BE ACQUIRED. DRIVES SHALL BE CONSTRUCTED USING:

ASPHALT - COMMERCIAL - ASPH CONC 12.5mm SUPERPAVE (165 LB/SY)
 ASPH CONC 19mm SUPERPAVE (220 LB/SY)
 GRADED AGGREGATE BASE, 6"

CONCRETE - COMMERCIAL - DRIVEWAY CONCRETE, 8" THICK

STANDARD SIGNING AND MARKING NOTES

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
4. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 1.5 FEET FROM THE CURB FACE TO THE SIGN POST(S).
5. ALL STRIPING, DIRECTIONAL ARROWS, ETC., SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED. ALL STRIPING SHOULD BE INSTALLED PER GDOT SPECIFICATIONS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL RULES AND REGULATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES DURING ROAD WIDENING.
7. ALL EXISTING STRIPING, SIGNAGE, RAISED PAVEMENT MARKERS, UTILITIES, ETC. WHICH CONFLICTS WITH PROPOSED IMPROVEMENTS SHOULD BE REMOVED AND/OR RELOCATED PER GEORGIA DOT SPECIFICATIONS TO INCORPORATE NEW IMPROVEMENTS.
8. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT.

UTILITY OWNER	SERVICE
AT&T	TELEPHONE
SAWNEE EMC	ELECTRICAL
FORSYTH COUNTY DEPARTMENT OF WATER AND SEWER	WATER AND SEWER

Project Number: PEB 24 & PEB 16 County: Forsyth

Pipe Culvert Material Alternates

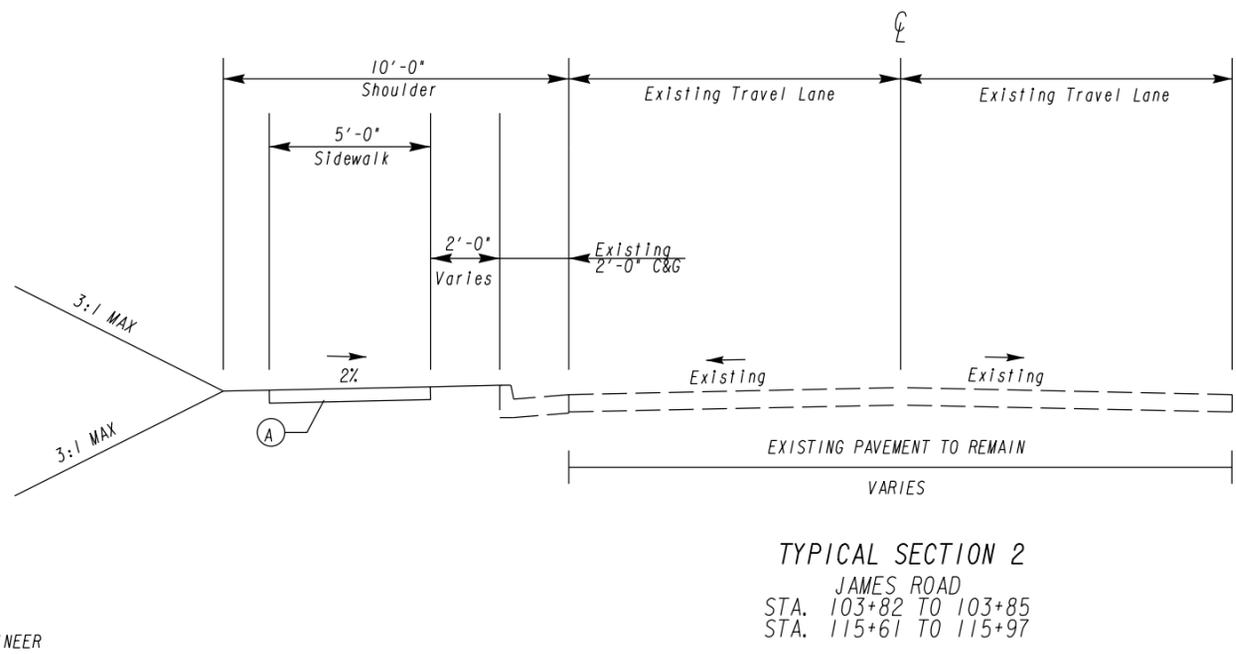
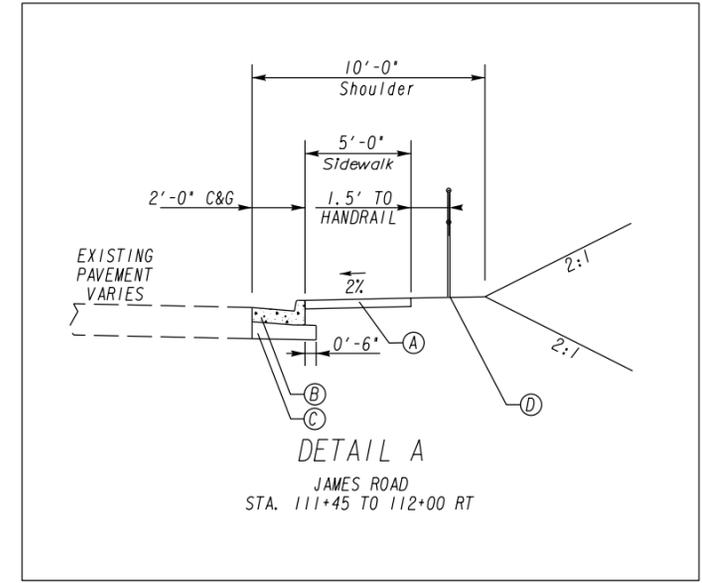
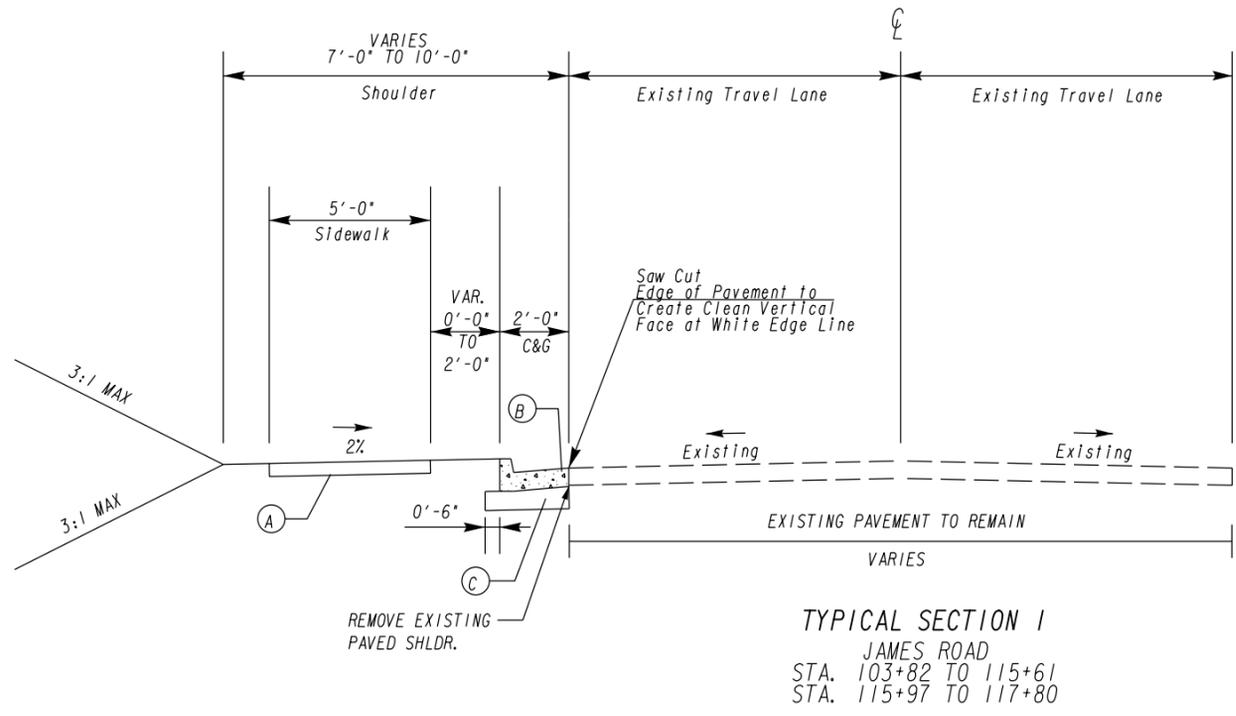
TYPE OF INSTALLATION	PIPE TYPE									
	CONCRETE	STEEL			ALUMINUM	THERMOPLASTIC				
	REINFORCED CONCRETE AASHTO M170	CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M36	CORRUGATED STEEL PLAIN ZINC COATED AASHTO M36	POLYMER COATED STEEL AASHTO M245	CORRUGATED ALUMINUM AASHTO M196	CORRUGATED HDPE AASHTO M252	CORRUGATED SMOOTH LINED HDPE TYPE "S" AASHTO M294	CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M330	PVC CORRUGATED SMOOTH INTERIOR ASTM F-949	PVC Profile Wall Drain Pipe AASHTO M304
NON-TRAVEL BEARING (OUTSIDE ROADBED)	INTERSTATE	X								
	NON INTERSTATE	X					X	X	X	X
TRAVEL BEARING (INSIDE ROADBED)	GRADE ≤ 10%	ADT < 1,500	X				X	X	X	X
		1,500 < ADT < 5,000	X				X	X	X	X
		5,000 < ADT < 15,000	X				X	X	X	X
		ADT > 15,000 & INTERSTATES	X							
GRADE > 10%						X	X	X	X	
SIDE DRAIN	X					X	X	X	X	
PERMANENT SLOPE DRAIN		X	X	X	X	X	X	X	X	
PERFORATED UNDERDRAIN		X	X		X	X	X	X	X	

- NOTES:**
- 1 Allowable materials are indicated by an "X".
 - 2 Structural, installation, fill height and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications
 - 3 The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.
 - 4 Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.

Rev. 1-12-16



REVISION DATES		GENERAL NOTES	
		JAMES ROAD SIDEWALK IMPROVEMENTS CHECKED: _____ DATE: _____ DRAWING No. 04-0001 BACKCHECKED: _____ DATE: _____ CORRECTED: _____ DATE: _____ VERIFIED: _____ DATE: _____	



- PAY ITEMS:
- (A) 4" CONC SIDEWALK
 - (B) 8"X24" CONC CURB & GUTTER, TYPE 2
 - (C) GRADED AGGREGATE BASE, 6"
 - (D) 42" HANDRAIL, AS DIRECTED BY THE ENGINEER



NOT TO SCALE

REVISION DATES		TYPICAL SECTIONS	
		JAMES ROAD SIDEWALK IMPROVEMENTS	
CHECKED:	DATE:		
BACKCHECKED:	DATE:		
CORRECTED:	DATE:		
VERIFIED:	DATE:	DRAWING No. 05-0001	

SUMMARY OF QUANTITIES

TRAFFIC CONTROL	
JAMES ROAD	LUMP SUM

GRADING COMPLETE	
JAMES ROAD	LUMP SUM

AGGREGATE SURFACE COURSE	
AS REQUIRED	68 TN

FOR USE IN INCLEMENT WEATHER TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC ALONG ROADWAY CONSTRUCTION AND TO PERMIT INGRESS & EGRESS AT DRIVES.

SURFACING QUANTITIES					
ITEMS	UNIT	JAMES ROAD	DRIVEWAYS	CURB AND GUTTER	TOTALS
GRADED AGGREGATE BASE CRS, INCL MATL	TN			98	98
CONCRETE SIDEWALK, 4 IN	SY	720			720
CONC CURB & GUTTER, 8 IN X 24 IN, TP 2	LF	1300			1300
CONCRETE DRIVEWAY, 8 IN	SY		99		99
SAW JOINTS	LF		36		36

GALV STEEL PIPE HANDRAIL, 2 IN, ROUND	
TOTAL	55 LF

THERMOPLASTIC TRAFFIC STRIPE		
DESCRIPTION	UNIT	QUANTITY
8" SOLID WHITE	LF	500
DETAIL WHITE	SY	25

SUMMARY OF QUANTITIES-STANDARD SIGNS												
STA	ROAD	INSTR. NO.	CODE	SIGNS (TYPE 1)						POST		
				TYPE III REFLECTIVE SHEETING			TYPE XI REFLECTIVE SHEETING			TYPE 7		
				SIZE	QTY	SF	SIZE	QTY	SF	LENGTH (FEET)	QUANTITY	TOTAL LENGTH
1100+10	JAMES ROAD		W11-2				36"X36"	1	9	14	2	28
	JAMES ROAD		W16-9p				24"X12"	1	2			
102+11	JAMES ROAD		R1-5A				36"X36"	1	9	13	1	13
102+30	JAMES ROAD		R1-5A				36"X36"	1	9	13	1	13
104+37	JAMES ROAD		W11-2				36"X36"	1	9	14	2	28
	JAMES ROAD		W16-9p				24"X12"	1	2			
TOTALS								6	40		6	82

GRASSING			AGRICULTURAL LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	MULCH
ITEM	UNIT	QUANTITY	TN	TN	LB	SY
PERMANENT GRASSING	AC	1	3	1	50	3
TEMPORARY GRASSING	AC	1		1		8
SOD	SY	210				
TOTAL			3	2	50	11

CONSTRUCTION EXIT	
TOTAL	1 EA

MAINTAIN CONSTRUCTION EXIT	
TOTAL	1 EA

BARRIER FENCE (ORANGE), 4 FT	
TOTAL	60 LF

CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	
TOTAL	3 EA

MAINTAIN SILT CONTROL GATE, TP 3	
TOTAL	3 EA

CONSTRUCT AND REMOVE INLET SEDIMENT TRAP (SD2)	
TOTAL	11 EA

MAINTAIN INLET SEDIMENT TRAP (SD2)	
TOTAL	11 EA

TEMPORARY SILT FENCE, TYPE A	
TOTAL	1000 LF

MAINTAIN TEMPORARY SILT FENCE, TYPE A	
TOTAL	500 LF

TEMPORARY SILT FENCE, TYPE C	
TOTAL	200 LF

MAINTAIN TEMPORARY SILT FENCE, TYPE C	
TOTAL	100 LF

CONSTRUCT AND REMOVE FABRIC CHECK DAM - TYPE C SILT FENCE	
TOTAL	320 LF

MAINTAIN FABRIC CHECK DAM - TYPE C SILT FENCE	
TOTAL	160 LF

SUMMARY OF DRAINAGE QUANTITIES

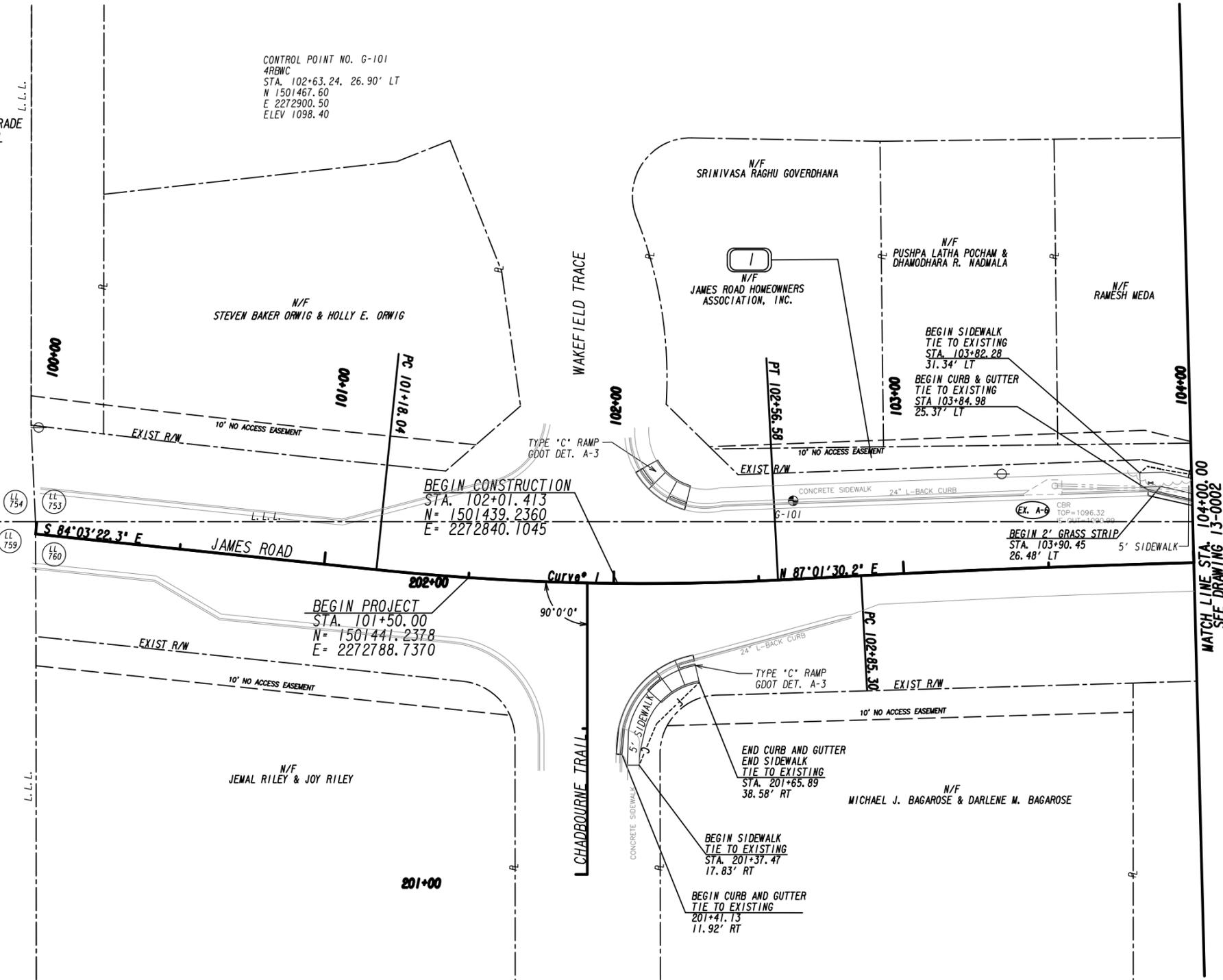
STRUCTURE NUMBER	LOCATION	STATION	SIDE	ROAD	CATCH BASINS, DROP INLETS				RECONSTR STORM SEWER MANHOLE
					6" OR LESS		6" OR LESS		
					EA	LF	EA	EA	
A-1	110+38	LT	JAMES ROAD	12	1			1	
A-2	110+37	LT	JAMES ROAD	217	1				
A-3	108+19	LT	JAMES ROAD	239	1				
A-4	105+80	LT	JAMES ROAD	175					
A-5	104+06	LT	JAMES ROAD						
B-1	112+37	LT	JAMES ROAD					1	
B-2	112+69	LT	JAMES ROAD	32				1	
B-3	113+93	LT	JAMES ROAD	124				1	
B-4	114+07	LT	JAMES ROAD	18	1				
B-2.1	112+69	LT	JAMES ROAD	12	1			2	
TOTAL					829	5	0	2	2



REVISION DATES		SUMMARY QUANTITIES	
		JAMES ROAD SIDEWALK IMPROVEMENTS	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	06-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

NOTE:
 EXISTING INFORMATION FOR JAMES ROAD FROM STA. 100+00.00 TO 101+78.30 HAS BEEN DIGITIZED FROM AERIALS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AS NEEDED PRIOR TO CONSTRUCTION.

NOTE:
 COUNTY TO TRIM EXISTING VEGETATION TO RIGHT OF WAY AND GRADE EMBANKMENT TO OBTAIN SIGHT DISTANCE FROM CHADBOURNE TRAIL

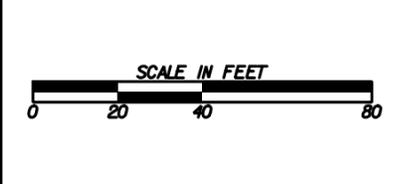


PROPERTY AND EXISTING R/W LINE	
REQUIRED R/W LINE	
CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

BEGIN LIMIT OF ACCESS.....BLA	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

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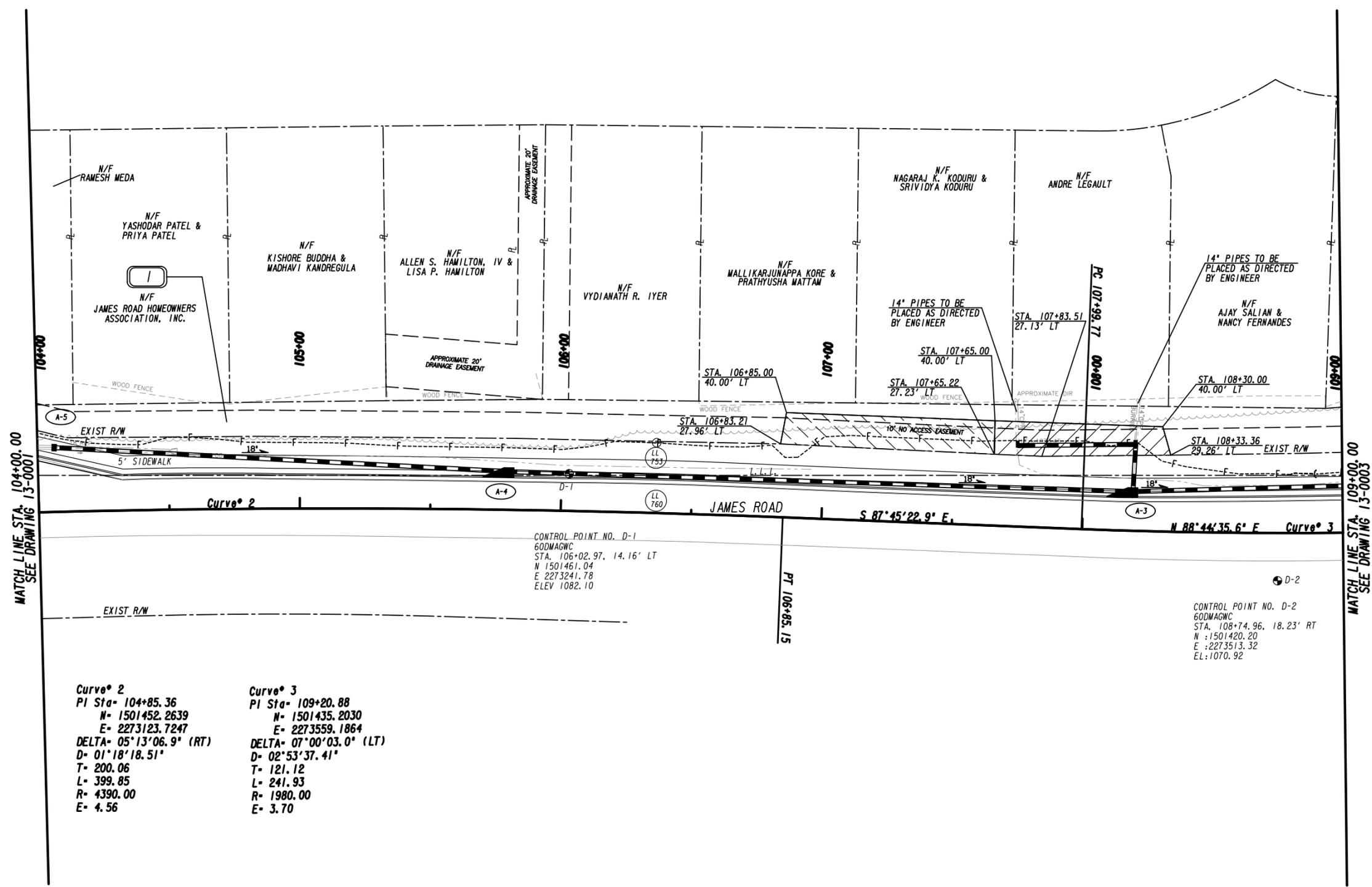


REVISION DATES	

MAINLINE PLAN

JAMES ROAD
 SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve 2
 PI Sta- 104+85.36
 N= 1501452.2639
 E= 2273123.7247
 DELTA- 05°13'06.9" (RT)
 D= 01°18'18.51"
 T= 200.06
 L= 399.85
 R= 4390.00
 E= 4.56

Curve 3
 PI Sta- 109+20.88
 N= 1501435.2030
 E= 2273559.1864
 DELTA- 07°00'03.0" (LT)
 D= 02°53'37.41"
 T= 121.12
 L= 241.93
 R= 1980.00
 E= 3.70

CONTROL POINT NO. D-1
 60DMAGWC
 STA. 106+02.97, 14.16' LT
 N: 1501461.04
 E: 2273241.78
 ELEV: 1082.10

CONTROL POINT NO. D-2
 60DMAGWC
 STA. 108+74.96, 18.23' RT
 N: 1501420.20
 E: 2273513.32
 EL: 1070.92

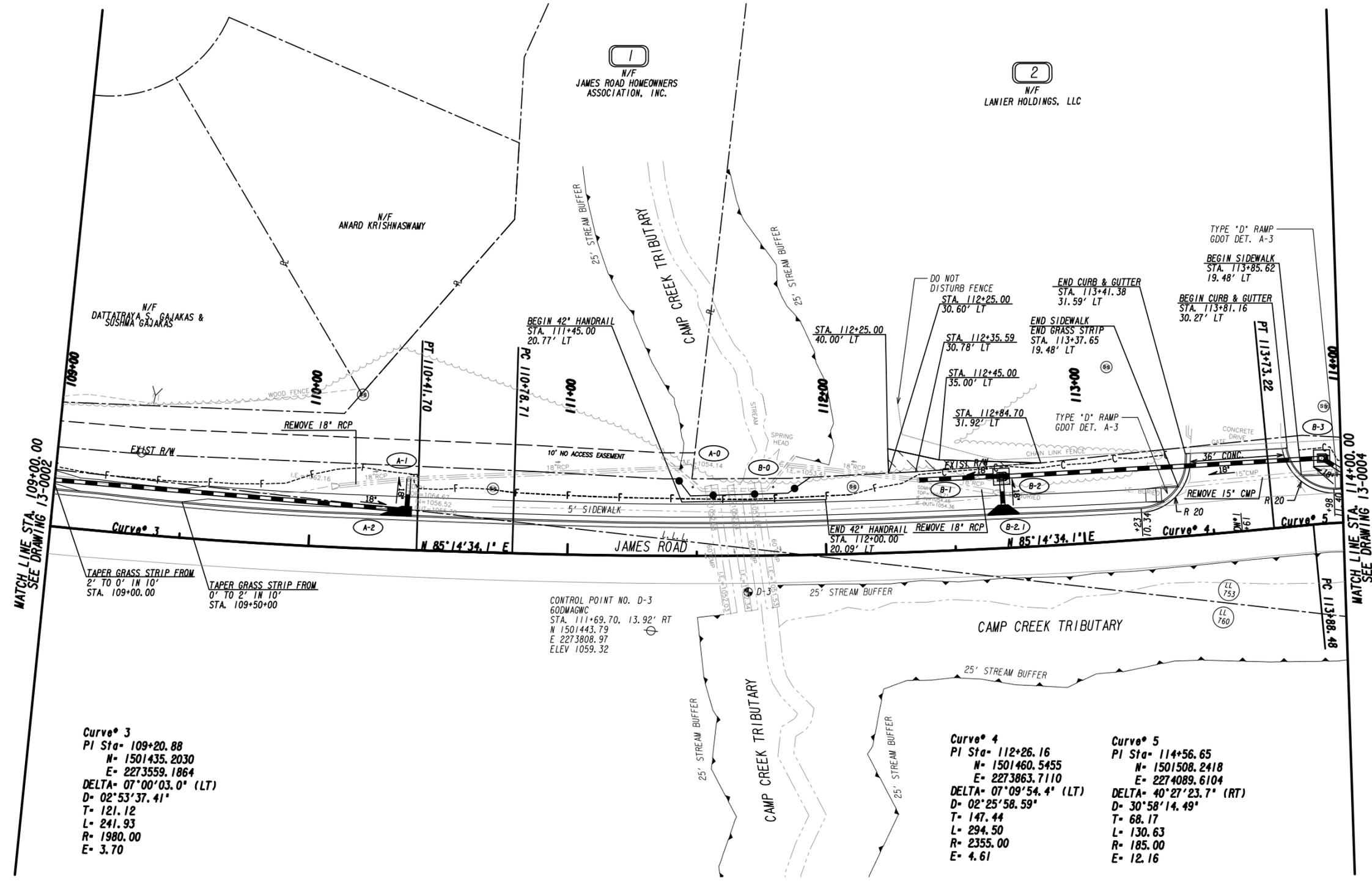
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

MAINLINE PLAN		
JAMES ROAD SIDEWALK IMPROVEMENTS		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 109+00.00
SEE DRAWING 13-0002

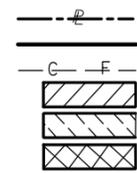
MATCH LINE STA. 114+00.00
SEE DRAWING 13-0004

Curve 3
 PI Sta- 109+20.88
 N- 1501435.2030
 E- 2273559.1864
 DELTA- 07°00'03.0" (LT)
 D- 02°53'37.41"
 T- 121.12
 L- 241.93
 R- 1980.00
 E- 3.70

Curve 4
 PI Sta- 112+26.16
 N- 1501460.5455
 E- 2273863.7110
 DELTA- 07°09'54.4" (LT)
 D- 02°25'58.59"
 T- 147.44
 L- 294.50
 R- 2355.00
 E- 4.61

Curve 5
 PI Sta- 114+56.65
 N- 1501508.2418
 E- 2274089.6104
 DELTA- 40°27'23.7" (RT)
 D- 30°58'14.49"
 T- 68.17
 L- 130.63
 R- 185.00
 E- 12.16

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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REVISION DATES	

MAINLINE PLAN
 JAMES ROAD
 SIDEWALK IMPROVEMENTS

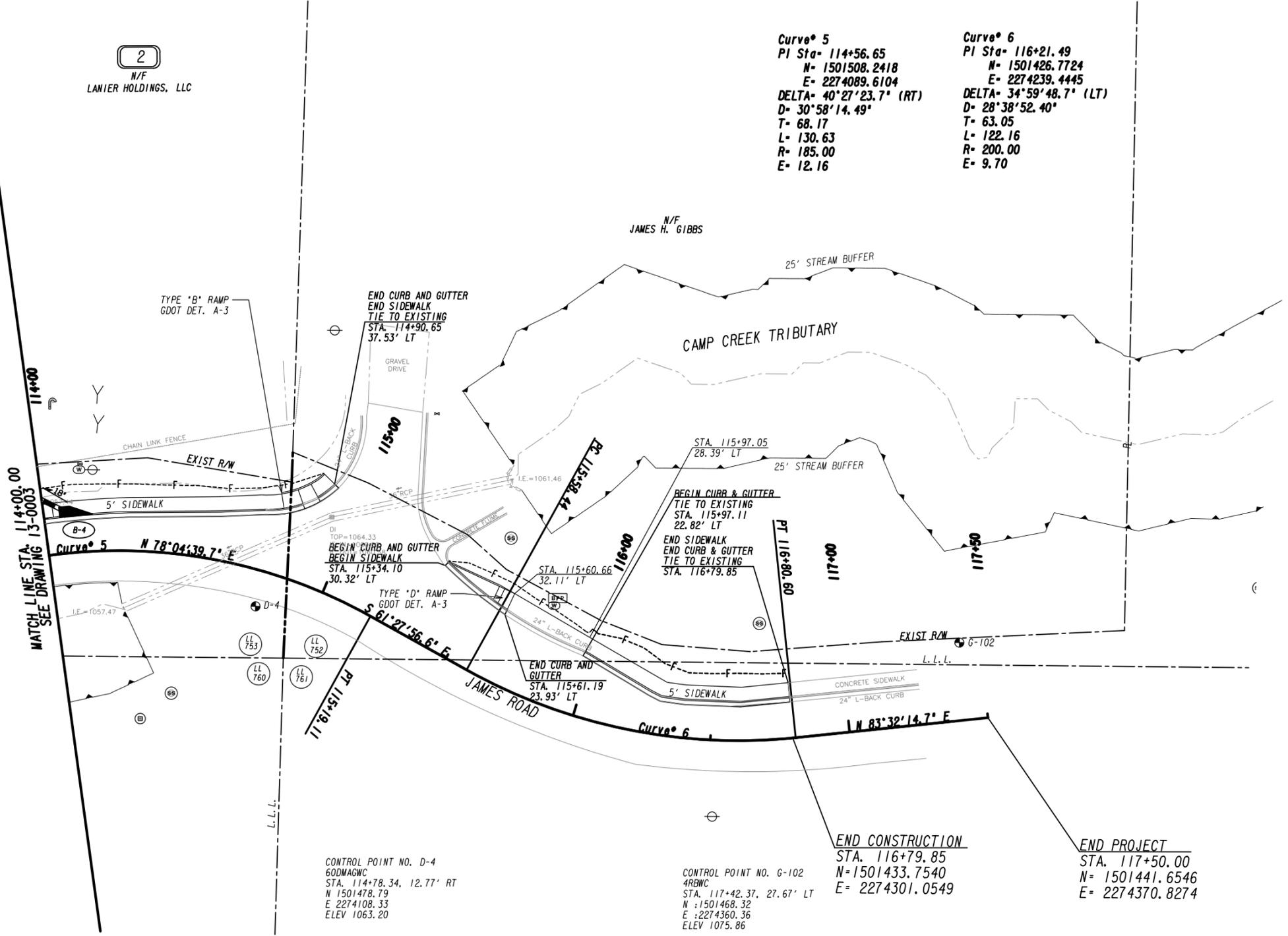
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BACKCHECKED:	DATE:	13-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

2
N/F
LANIER HOLDINGS, LLC

N/F
JAMES H. GIBBS

Curve 5
PI Sta- 114+56.65
N- 1501508.2418
E- 2274089.6104
DELTA- 40°27'23.7" (RT)
D- 30°58'14.49"
T- 68.17
L- 130.63
R- 185.00
E- 12.16

Curve 6
PI Sta- 116+21.49
N- 1501426.7724
E- 2274239.4445
DELTA- 34°59'48.7" (LT)
D- 28°38'52.40"
T- 63.05
L- 122.16
R- 200.00
E- 9.70



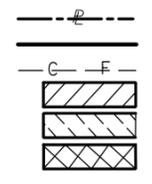
CONTROL POINT NO. D-4
60DMAGWC
STA. 114+78.34, 12.77' RT
N 1501478.79
E 2274108.33
ELEV 1063.20

CONTROL POINT NO. G-102
4RBWC
STA. 117+42.37, 27.67' LT
N : 1501468.32
E : 2274360.36
ELEV 1075.86

END CONSTRUCTION
STA. 116+79.85
N=1501433.7540
E= 2274301.0549

END PROJECT
STA. 117+50.00
N= 1501441.6546
E= 2274370.8274

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



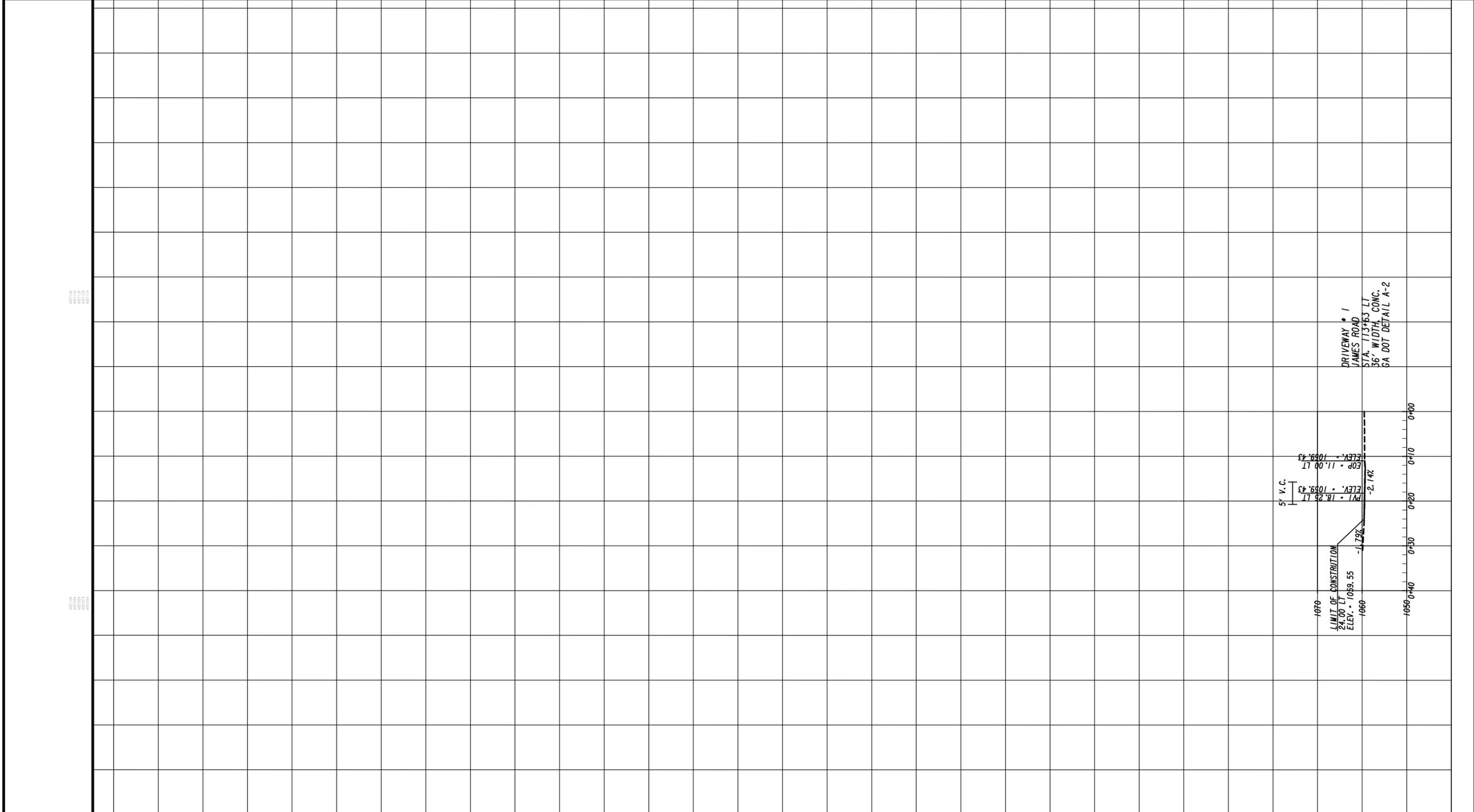
BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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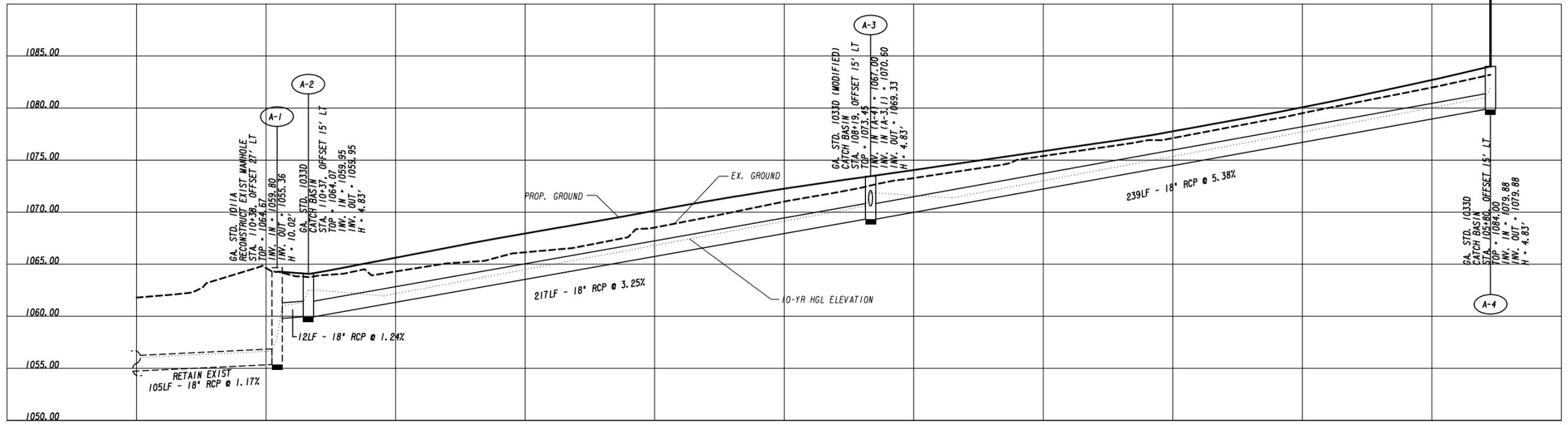
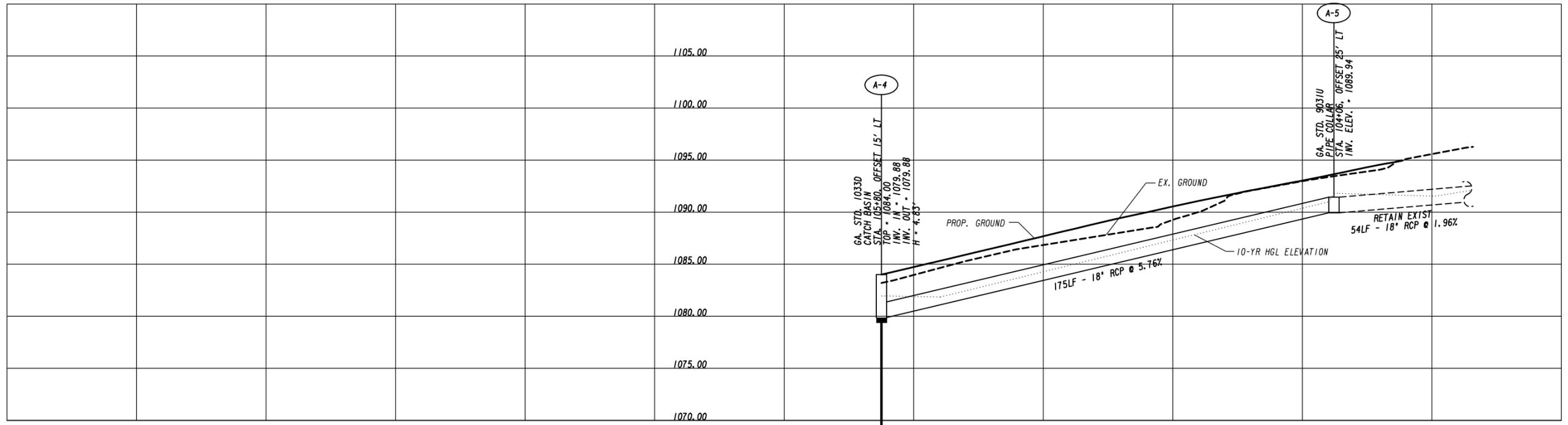


REVISION DATES	

MAINLINE PLAN			
JAMES ROAD SIDEWALK IMPROVEMENTS			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	13-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



	 WOLVERTON Engineering Solutions You Can Trust <small>6745 Sugarloaf Parkway • Suite 100 • Duluth, Georgia 30097 Phone: 770-447-8999 www.wolvertoninc.com</small>	SCALE: 1" = 10' VERT. 1" = 10' HORIZ.	REVISION DATES <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> </table>													DRIVEWAY PROFILE JAMES ROAD SIDEWALK IMPROVEMENTS	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>CHECKED:</td> <td>DATE:</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">DRAWING No. 17-0001</td> </tr> <tr> <td>BACKCHECKED:</td> <td>DATE:</td> </tr> <tr> <td>CORRECTED:</td> <td>DATE:</td> </tr> <tr> <td>VERIFIED:</td> <td>DATE:</td> </tr> </table>	CHECKED:	DATE:	DRAWING No. 17-0001	BACKCHECKED:	DATE:	CORRECTED:	DATE:	VERIFIED:	DATE:
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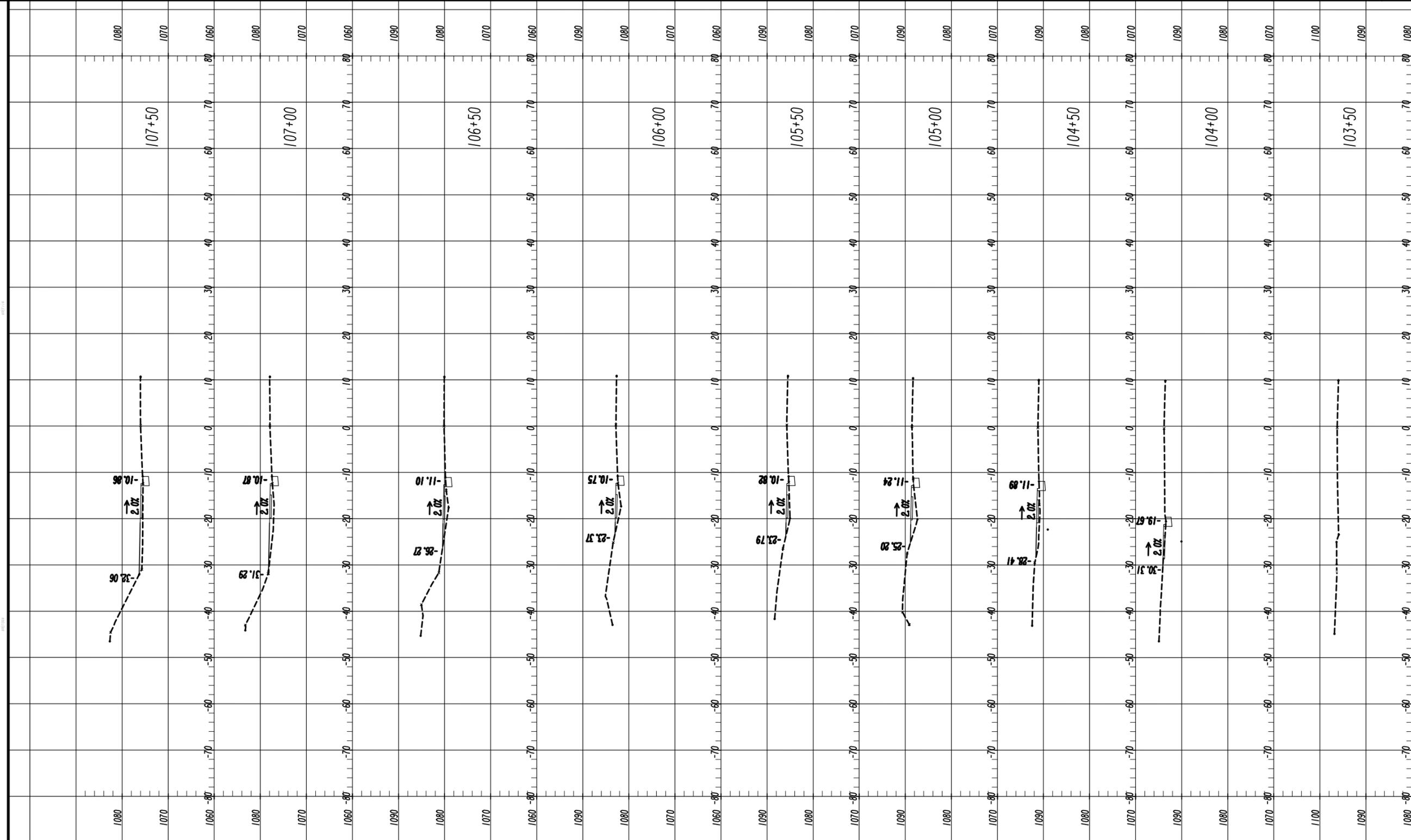


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REVISION DATES	

DRAINAGE PROFILES			
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CHECKED:		DATE:	
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DRAWING No.			22-0001



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SCALE: 1" = 10' VERT.

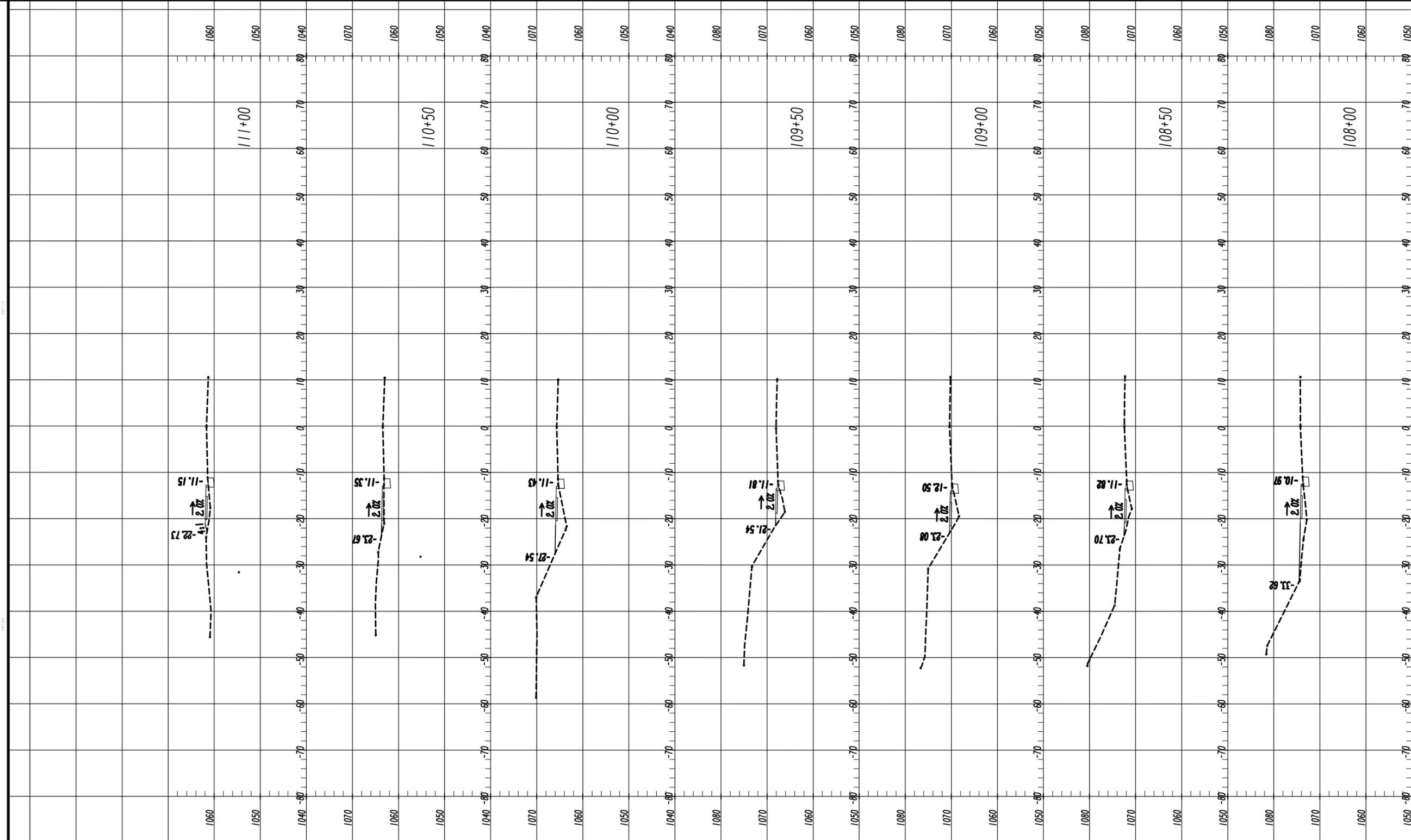
REVISION DATES

NO.	DATE	DESCRIPTION

EARTHWORK CROSS SECTIONS

JAMES ROAD
JAMES ROAD
SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

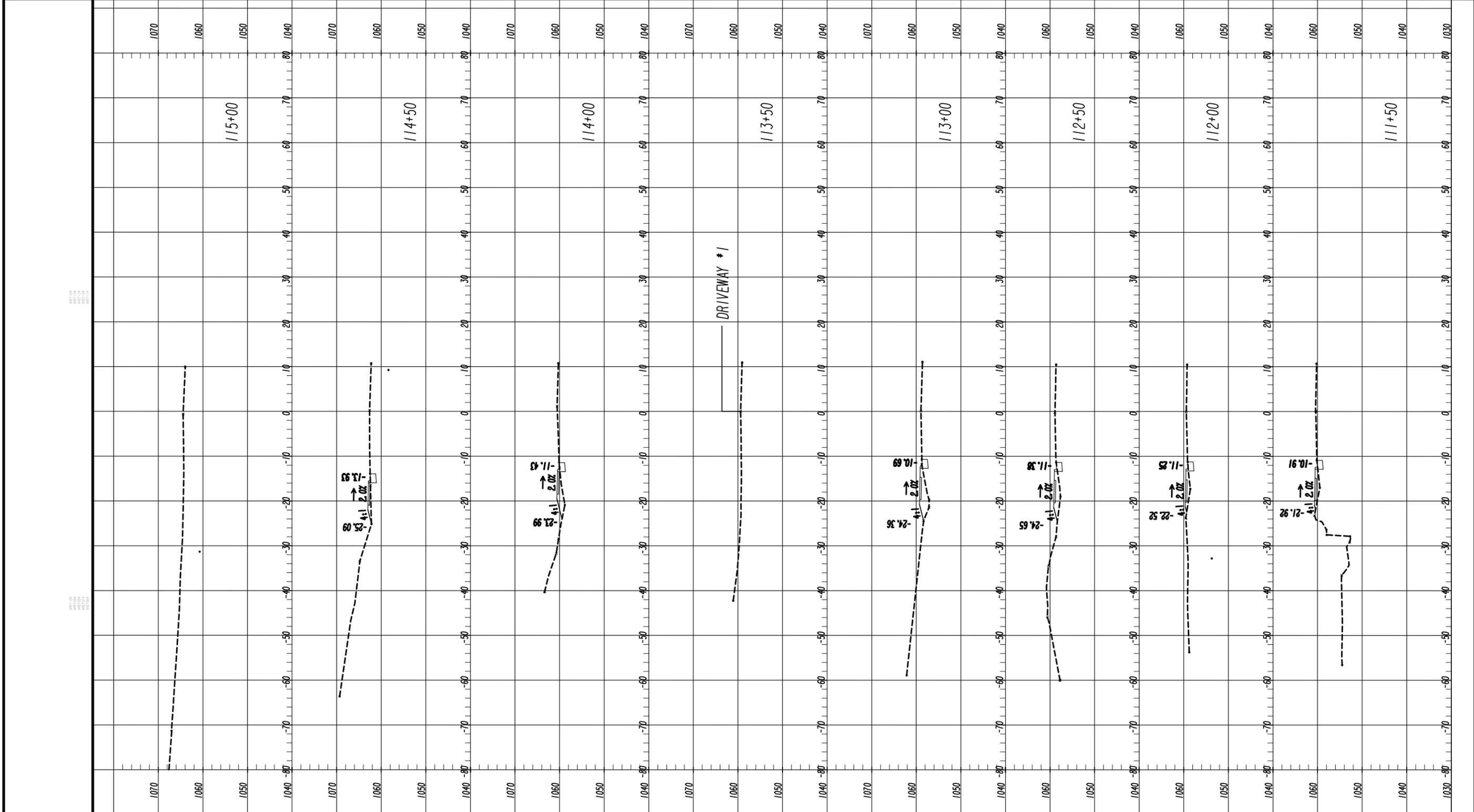


REVISION DATES		EARTHWORK CROSS SECTIONS	
		JAMES ROAD JAMES ROAD SIDEWALK IMPROVEMENTS	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

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SCALE: 1" = 10' VERT.



7/23/2015
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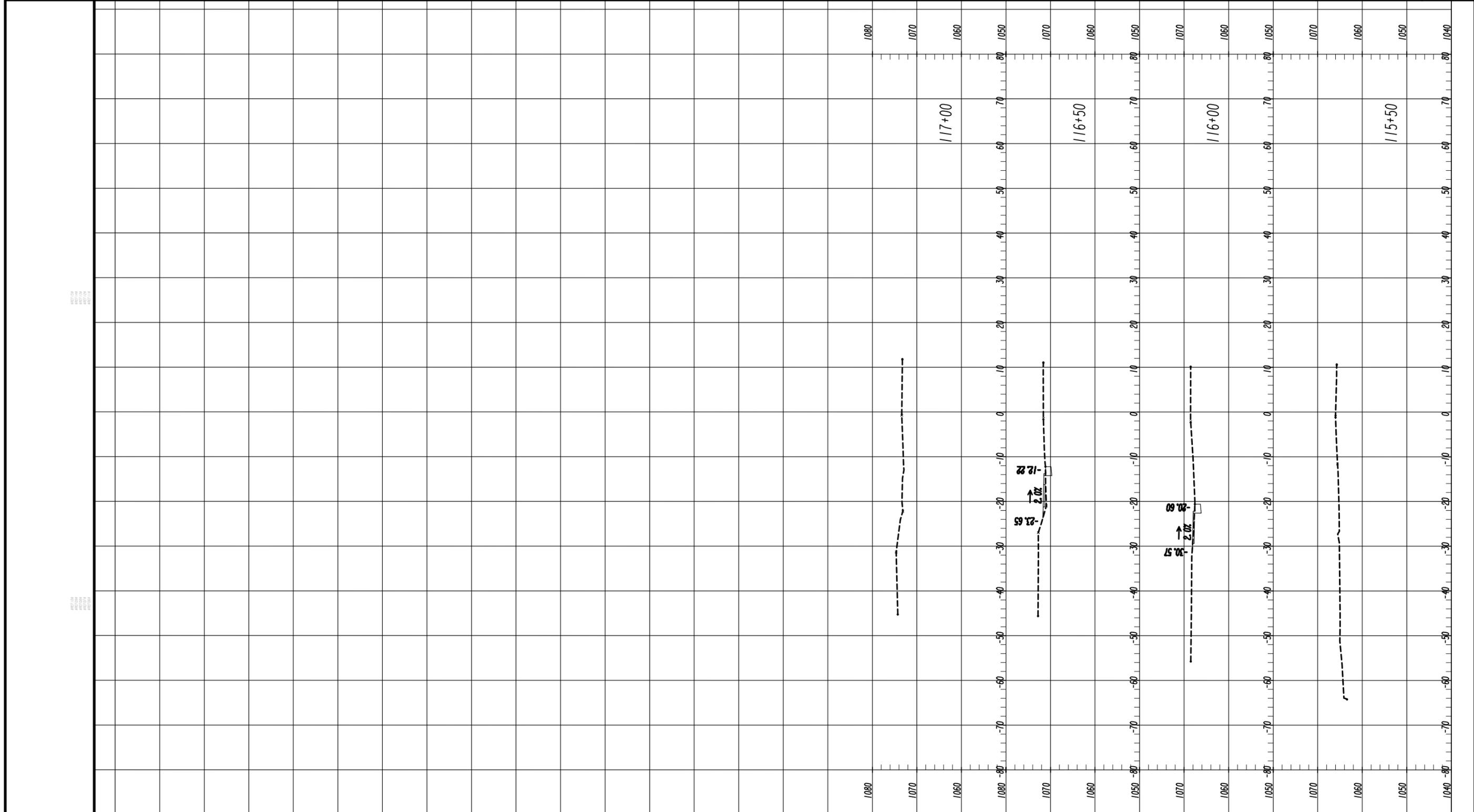
6745 Sugarloaf Parkway • Suite 100 • Duluth, Georgia 30097
Phone: 770-447-8999
www.wolvertoninc.com

SCALE: 1" = 10' VERT.

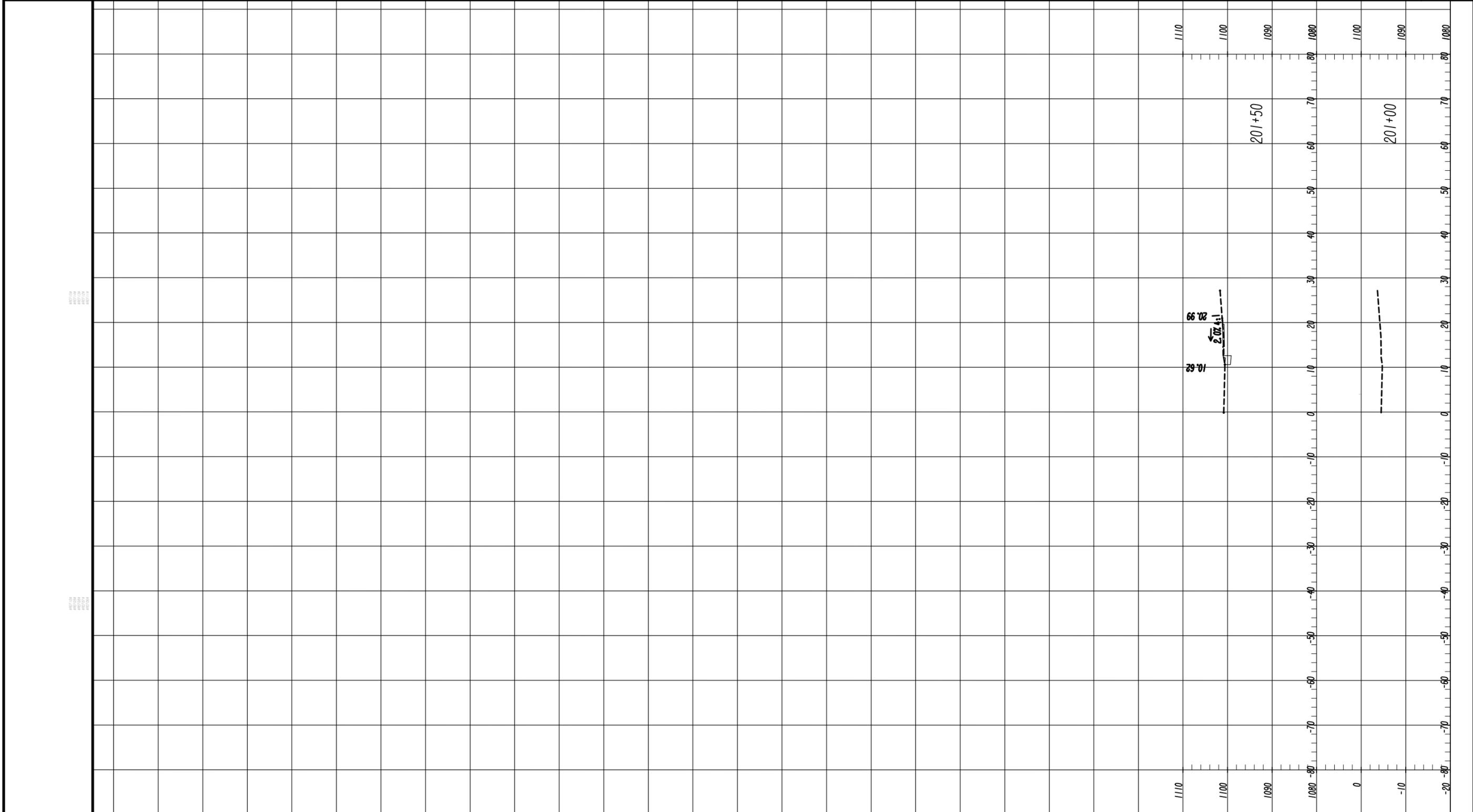
REVISION DATES	

EARTHWORK CROSS SECTIONS
JAMES ROAD
JAMES ROAD
SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



	 <p>WOLVERTON Engineering Solutions You Can Trust 6745 Sugarloaf Parkway • Suite 100 • Duluth, Georgia 30097 Phone: 770-447-8999 www.wolvertoninc.com</p>	<p>SCALE: 1" = 10' VERT. 1" = 100' HORIZ.</p>	<p>REVISION DATES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> </table>											<p>EARTHWORK CROSS SECTIONS JAMES ROAD JAMES ROAD SIDEWALK IMPROVEMENTS</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>CHECKED:</td> <td>DATE:</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">DRAWING No. 23-0004</td> </tr> <tr> <td>BACKCHECKED:</td> <td>DATE:</td> </tr> <tr> <td>CORRECTED:</td> <td>DATE:</td> </tr> <tr> <td>VERIFIED:</td> <td>DATE:</td> </tr> </table>	CHECKED:	DATE:	DRAWING No. 23-0004	BACKCHECKED:	DATE:	CORRECTED:	DATE:	VERIFIED:	DATE:
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CORRECTED:	DATE:																						
VERIFIED:	DATE:																						



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				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>CHECKED:</td> <td>DATE:</td> <td>DRAWING No.</td> </tr> <tr> <td>BACKCHECKED:</td> <td>DATE:</td> <td>23-0005</td> </tr> <tr> <td>CORRECTED:</td> <td>DATE:</td> <td></td> </tr> <tr> <td>VERIFIED:</td> <td>DATE:</td> <td></td> </tr> </table>	CHECKED:	DATE:	DRAWING No.	BACKCHECKED:	DATE:	23-0005	CORRECTED:	DATE:		VERIFIED:	DATE:	
CHECKED:	DATE:	DRAWING No.														
BACKCHECKED:	DATE:	23-0005														
CORRECTED:	DATE:															
VERIFIED:	DATE:															

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
O	~W~E~W~E	~W~X~E~W~X~E	~W~E~W~	ELECTRIC
V	~W~E~T~W~	~W~X~E~T~W~	~W~E~T~W~	ELECTRIC/TELECOMMUNICATIONS
E	~W~E~TV~W~	~W~X~E~TV~W~	~W~E~TV~W~	ELECTRIC/CABLE TV
R	~W~E~T~TV~	~W~X~E~T~TV~	~W~E~T~TV~	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
H	~W~GW~W~	~W~X~GW~W~X~	~W~GW~W~	GUY WIRE
E	~W~T~W~	~W~X~T~W~	~W~T~W~	TELECOMMUNICATIONS
A	~W~T~TV~W~	~W~X~T~TV~W~	~W~T~TV~W~	TELECOMMUNICATIONS/CABLE TV
D	~W~TV~W~	~W~X~TV~W~X~	~W~TV~W~	CABLE TV

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
U	-----E-----	---X---E---X---	-----E-----	ELECTRIC
N	-----T-----	---X---T---X---	-----T-----	TELECOMMUNICATIONS
D	-----TV-----	---X---TV---X---	-----TV-----	CABLE TV
E	-----W-----	---X---W---X---	-----W-----	WATER
R	-----**W-----	---X---**W---X---	-----**W-----	WATER FOR LABELED PIPE SIZES
G	-----NW-----	---X---NW---X---	-----NW-----	NON-POTABLE WATER
R	-----**NW-----	---X---**NW---X---	-----**NW-----	NON-POTABLE WATER FOR LABELED PIPE SIZES
O	-----STM-----	---X---STM---X---	-----STM-----	STEAM
U	-----**STM-----	---X---**STM---X---	-----**STM-----	STEAM FOR LABELED PIPE SIZES
N	----->SS-----	---X--->SS---X---	----->SS-----	SANITARY SEWER WITH FLOW DIRECTION
D	-----Σ**SS-----	---X---Σ**SS---X---	-----Σ**SS-----	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES
	----->SFM-----	---X--->SFM---X---	----->SFM-----	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION
	-----G-----	---X---G---X---	-----G-----	GAS
	-----**G-----	---X---**G---X---	-----**G-----	GAS FOR LABELED PIPE SIZES
	-----P-----	---X---P---X---	-----P-----	PETROLEUM
	-----**P-----	---X---**P---X---	-----**P-----	PETROLEUM FOR LABELED PIPE SIZES

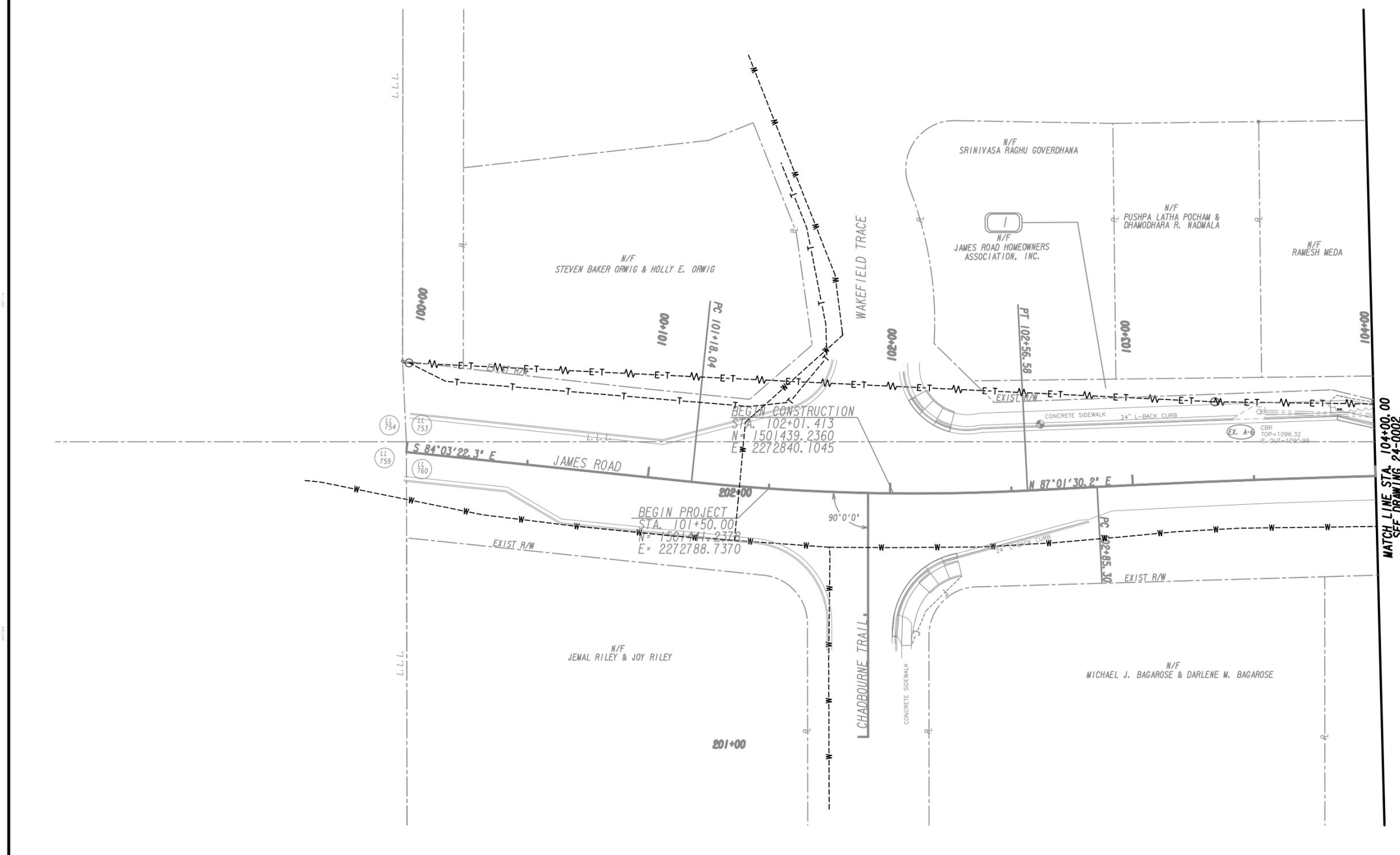
EXISTING	PROPOSED	TEMPORARY	EXISTING	PROPOSED	TEMPORARY

ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES HAVE BEEN LOCATED THROUGH FIELD SURVEY, FORSYTH COUNTY GIS, AND COORDINATION WITH UTILITY COMPANIES FOR EXISTING LOCATIONS. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON HIGHWAY PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE HIGHWAY PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. ALL UTILITY FACILITIES, WHICH ARE IN CONFLICT WITH CONSTRUCTION ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.

UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 OF THE GADOT STANDARDS SPECIFICATION, "COOPERATION WITH UTILITIES".

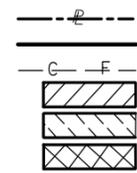


REVISION DATES		UTILITY PLANS	
		JAMES ROAD SIDEWALK IMPROVEMENTS	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0000	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MATCH LINE STA. 104+00.00
SEE DRAWING 24-0002

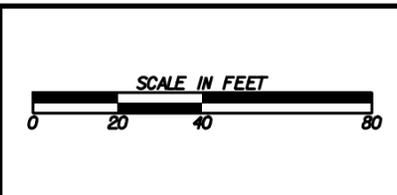
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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REVISION DATES

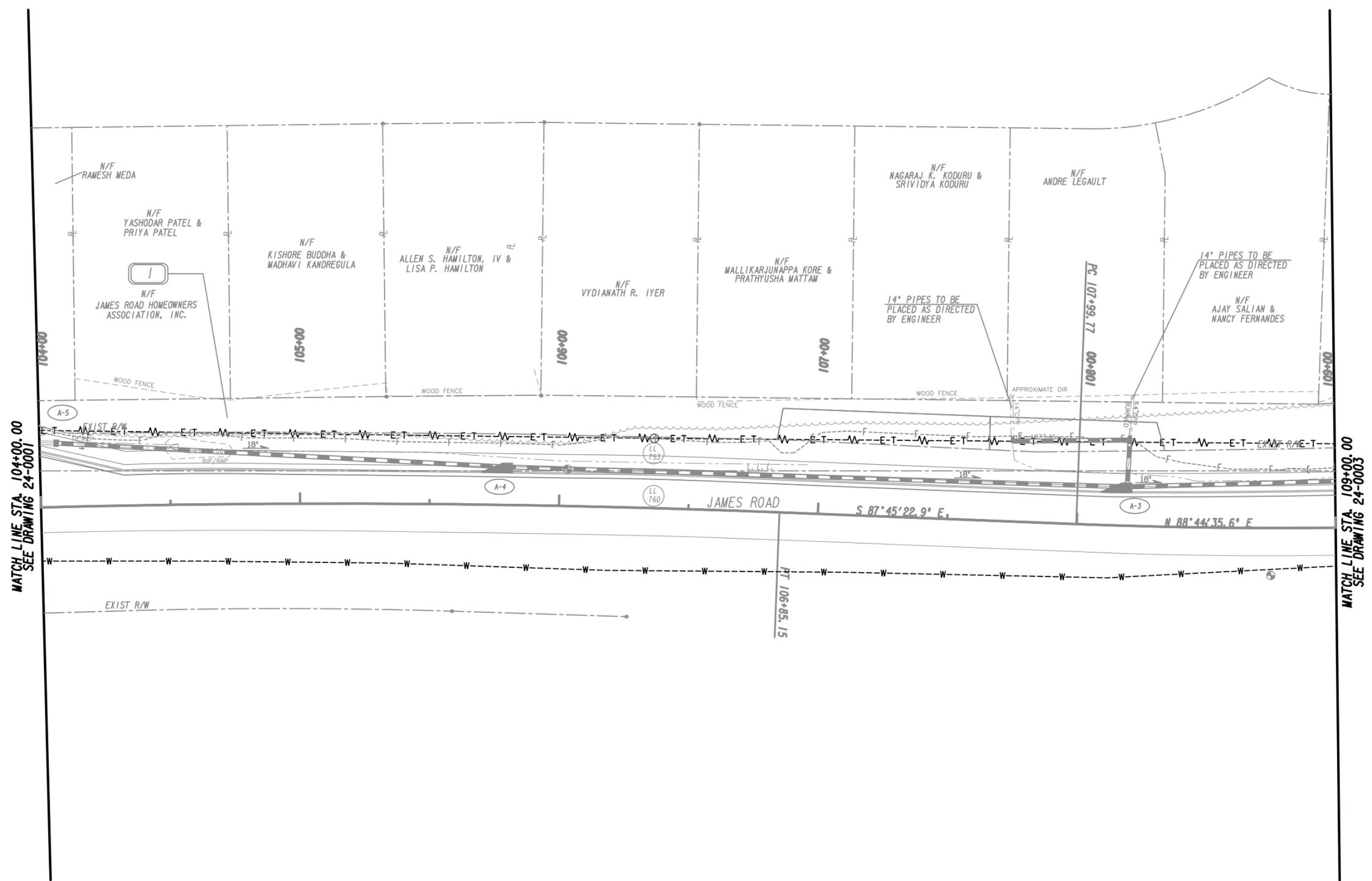
NO.	DATE	DESCRIPTION

UTILITY PLANS

JAMES ROAD
SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

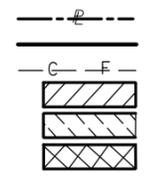
24-0001



MATCH LINE STA. 104+00.00
SEE DRAWING 24-0001

MATCH LINE STA. 109+00.00
SEE DRAWING 24-0003

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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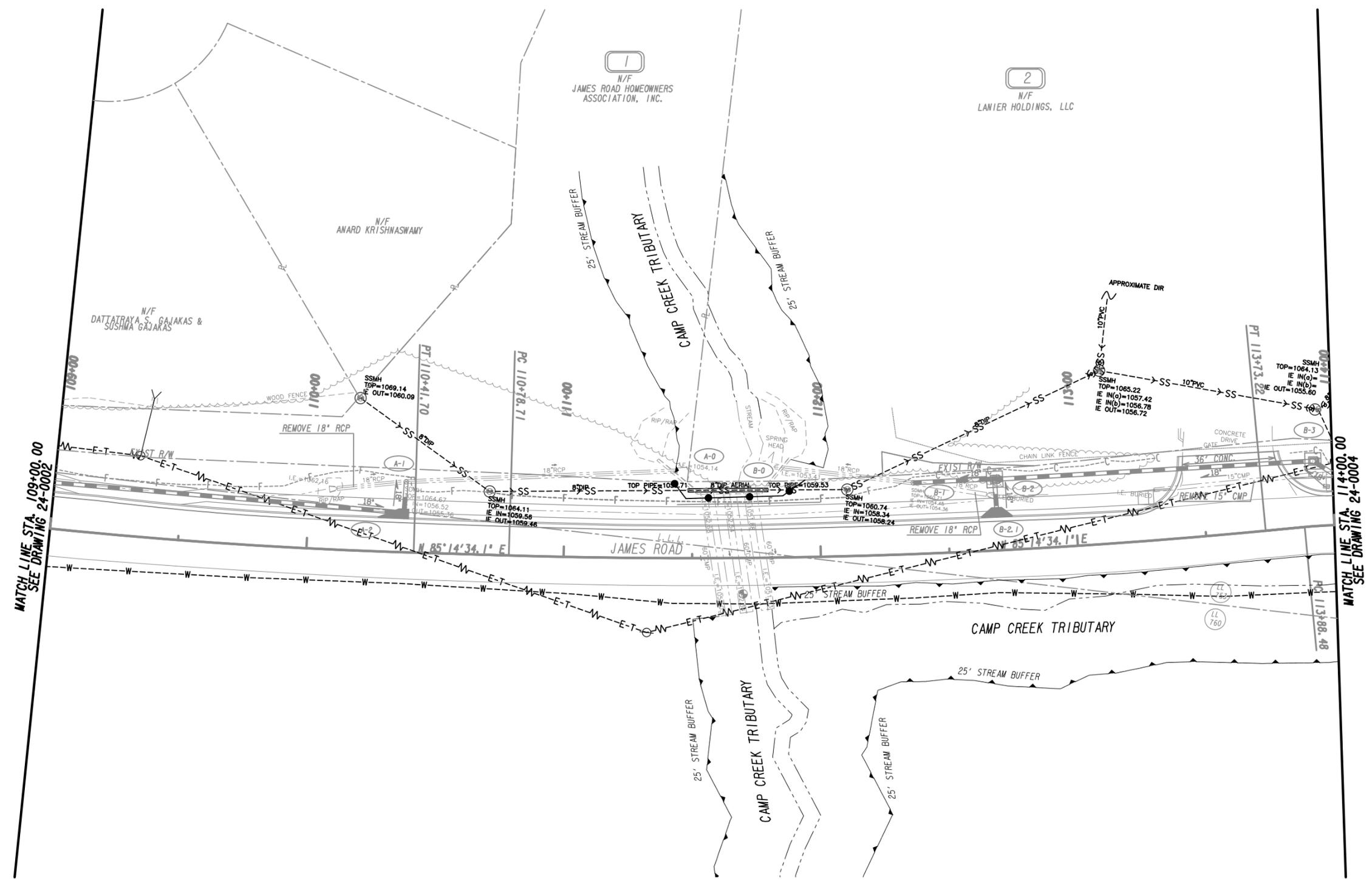


REVISION DATES	

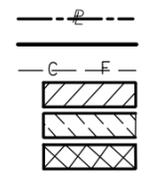
UTILITY PLANS

JAMES ROAD
SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0002
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VERIFIED:	DATE:	



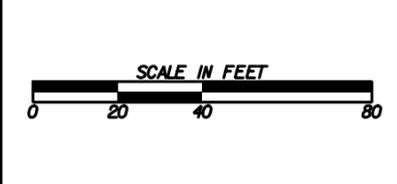
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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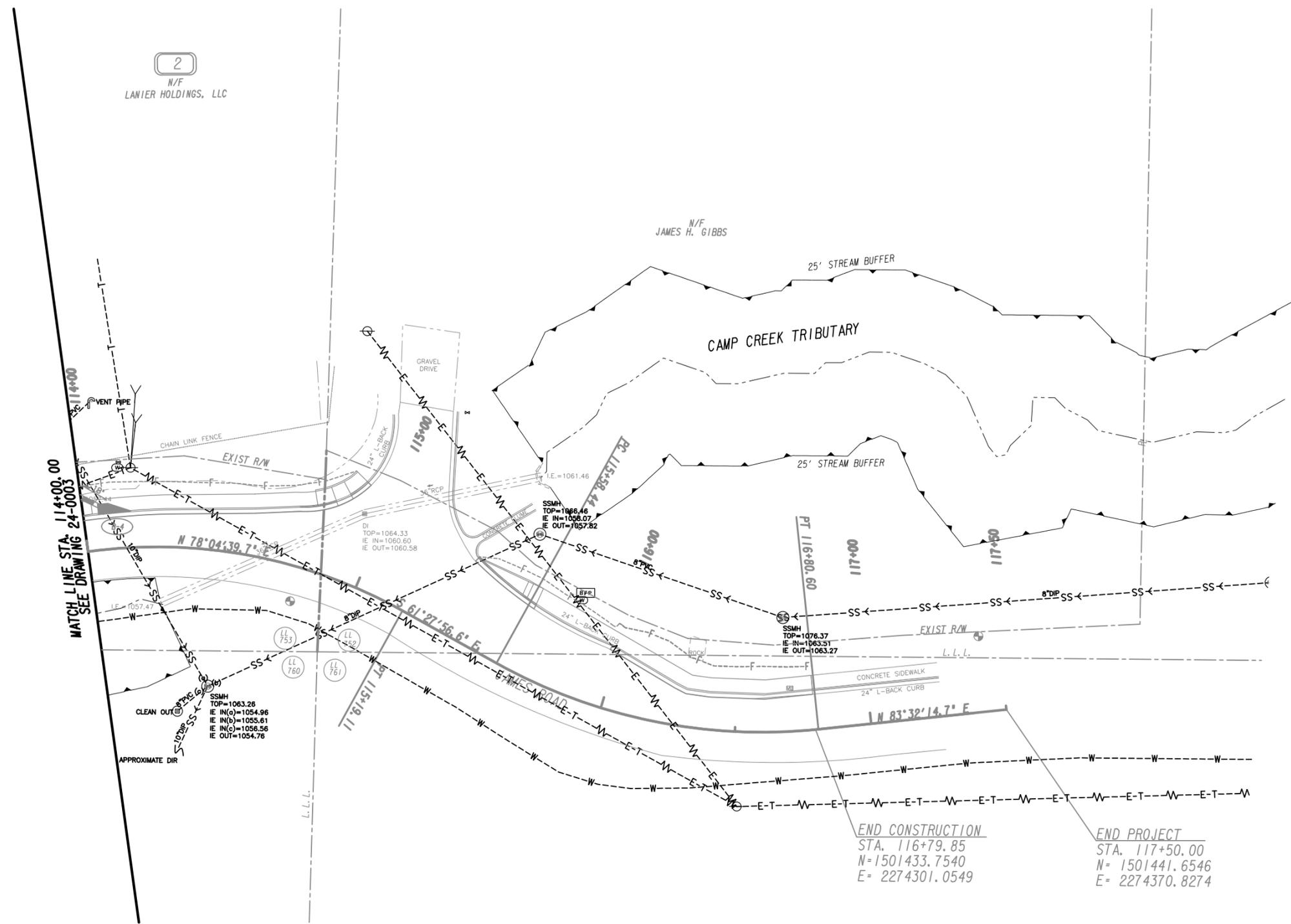
REVISION DATES

NO.	DATE	DESCRIPTION

UTILITY PLANS

JAMES ROAD
 SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

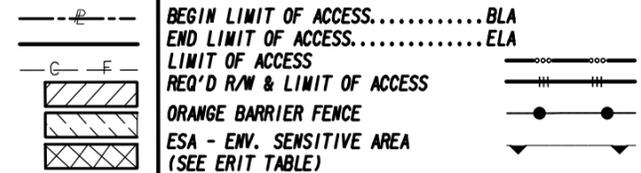


MATCH LINE STA. 114+00.00
SEE DRAWING 24-0003

END CONSTRUCTION
STA. 116+79.85
N= 1501433.7540
E= 2274301.0549

END PROJECT
STA. 117+50.00
N= 1501441.6546
E= 2274370.8274

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



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REVISION DATES

NO.	DATE	DESCRIPTION

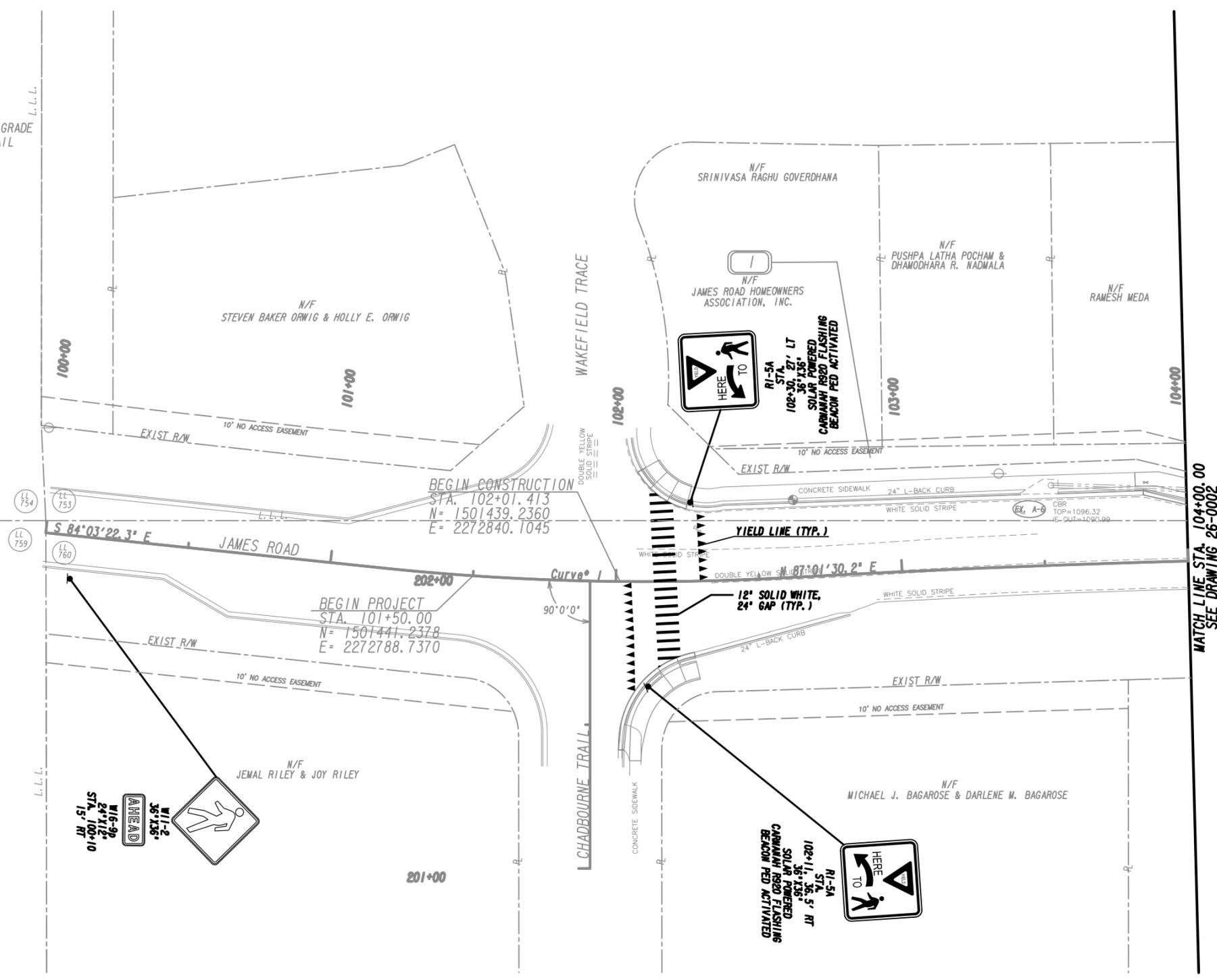
UTILITY PLANS

JAMES ROAD
SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NOTE:
 EXISTING INFORMATION FOR JAMES ROAD FROM STA. 100+00.00 TO 101+78.30 HAS BEEN DIGITIZED FROM AERIALS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AS NEEDED PRIOR TO CONSTRUCTION.

NOTE:
 COUNTY TO TRIM EXISTING VEGETATION TO RIGHT OF WAY AND GRADE EMBANKMENT TO OBTAIN SIGHT DISTANCE FROM CHADBOURNE TRAIL



Curve 1
 PI Sta= 101+87.45
 N= 1501436.7881
 E= 2272825.9376
 DELTA= 08° 55' 07.5" (LT)
 D= 06° 26' 15.82"
 T= 69.41
 L= 138.54
 R= 890.00
 E= 2.70

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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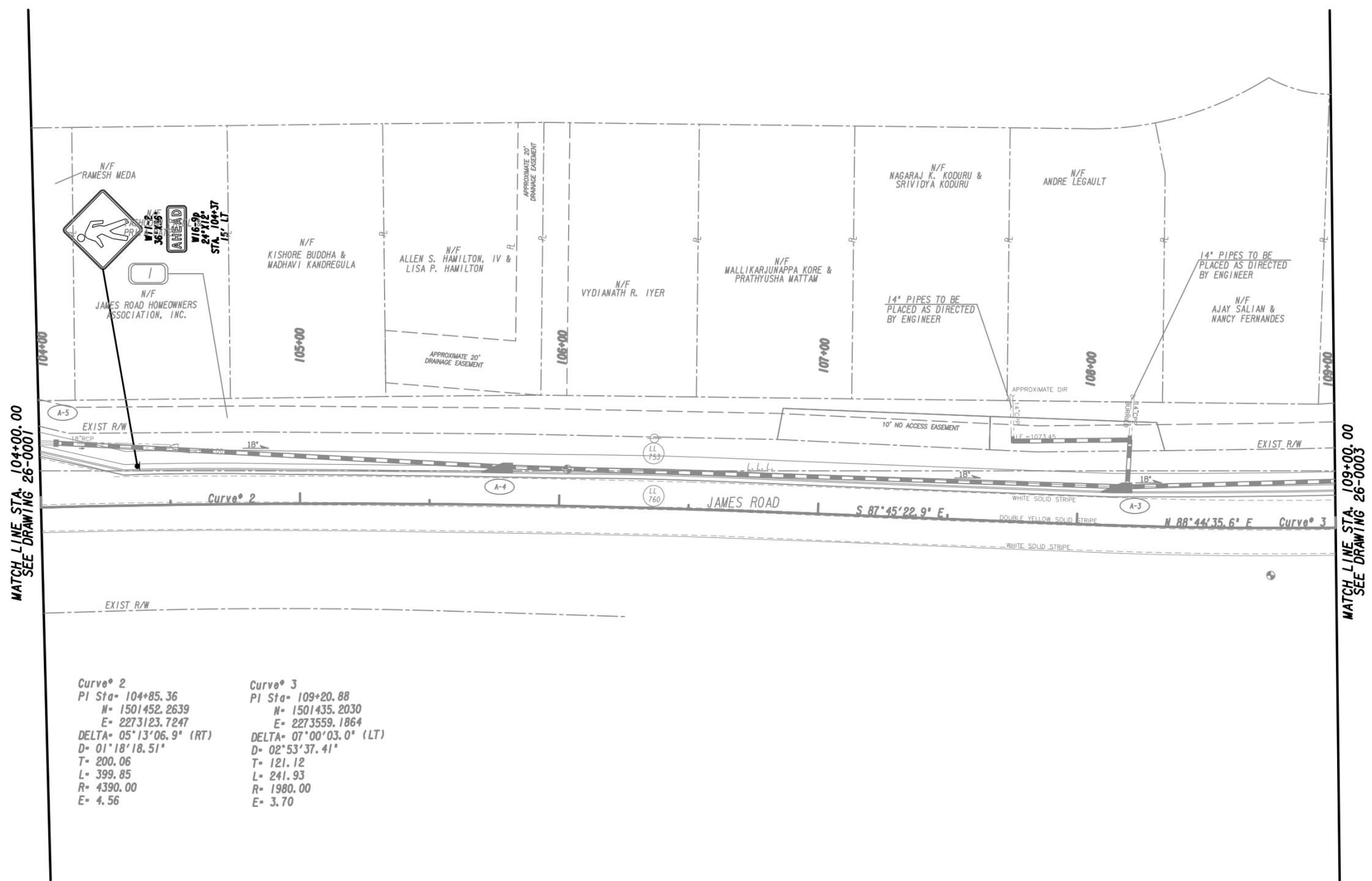


REVISION DATES

SIGNING AND MARKING PLANS

JAMES ROAD
 SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



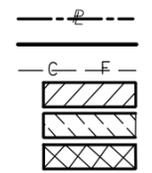
MATCH LINE STA. 104+00.00
SEE DRAWING 26-0001

MATCH LINE STA. 109+00.00
SEE DRAWING 26-0003

Curve 2
 PI Sta- 104+85.36
 N= 1501452.2639
 E= 2273123.7247
 DELTA= 05°13'06.9" (RT)
 D= 01°18'18.51"
 T= 200.06
 L= 399.85
 R= 4390.00
 E= 4.56

Curve 3
 PI Sta- 109+20.88
 N= 1501435.2030
 E= 2273559.1864
 DELTA= 07°00'03.0" (LT)
 D= 02°53'37.41"
 T= 121.12
 L= 241.93
 R= 1980.00
 E= 3.70

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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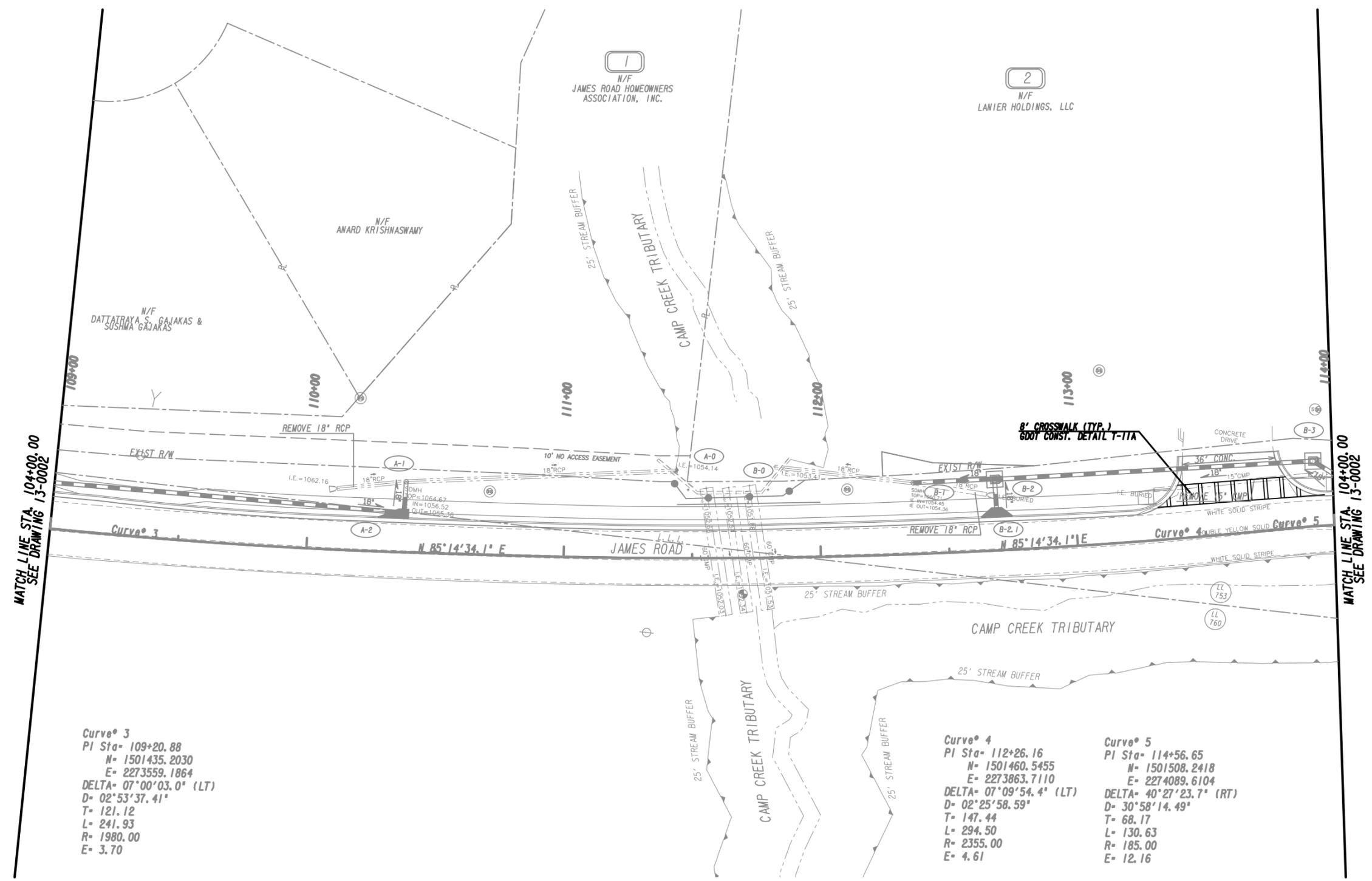


REVISION DATES	

SIGNING AND MARKING PLANS

JAMES ROAD
 SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 104+00.00
SEE DRAWING 13-0002

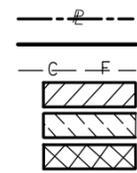
MATCH LINE STA. 104+00.00
SEE DRAWING 13-0002

Curve 3
PI Sta- 109+20.88
N= 1501435.2030
E= 2273559.1864
DELTA- 07°00'03.0" (LT)
D- 02°53'37.41"
T- 121.12
L- 241.93
R- 1980.00
E- 3.70

Curve 4
PI Sta- 112+26.16
N= 1501460.5455
E= 2273863.7110
DELTA- 07°09'54.4" (LT)
D- 02°25'58.59"
T- 147.44
L- 294.50
R- 2355.00
E- 4.61

Curve 5
PI Sta- 114+56.65
N= 1501508.2418
E= 2274089.6104
DELTA- 40°27'23.7" (RT)
D- 30°58'14.49"
T- 68.17
L- 130.63
R- 185.00
E- 12.16

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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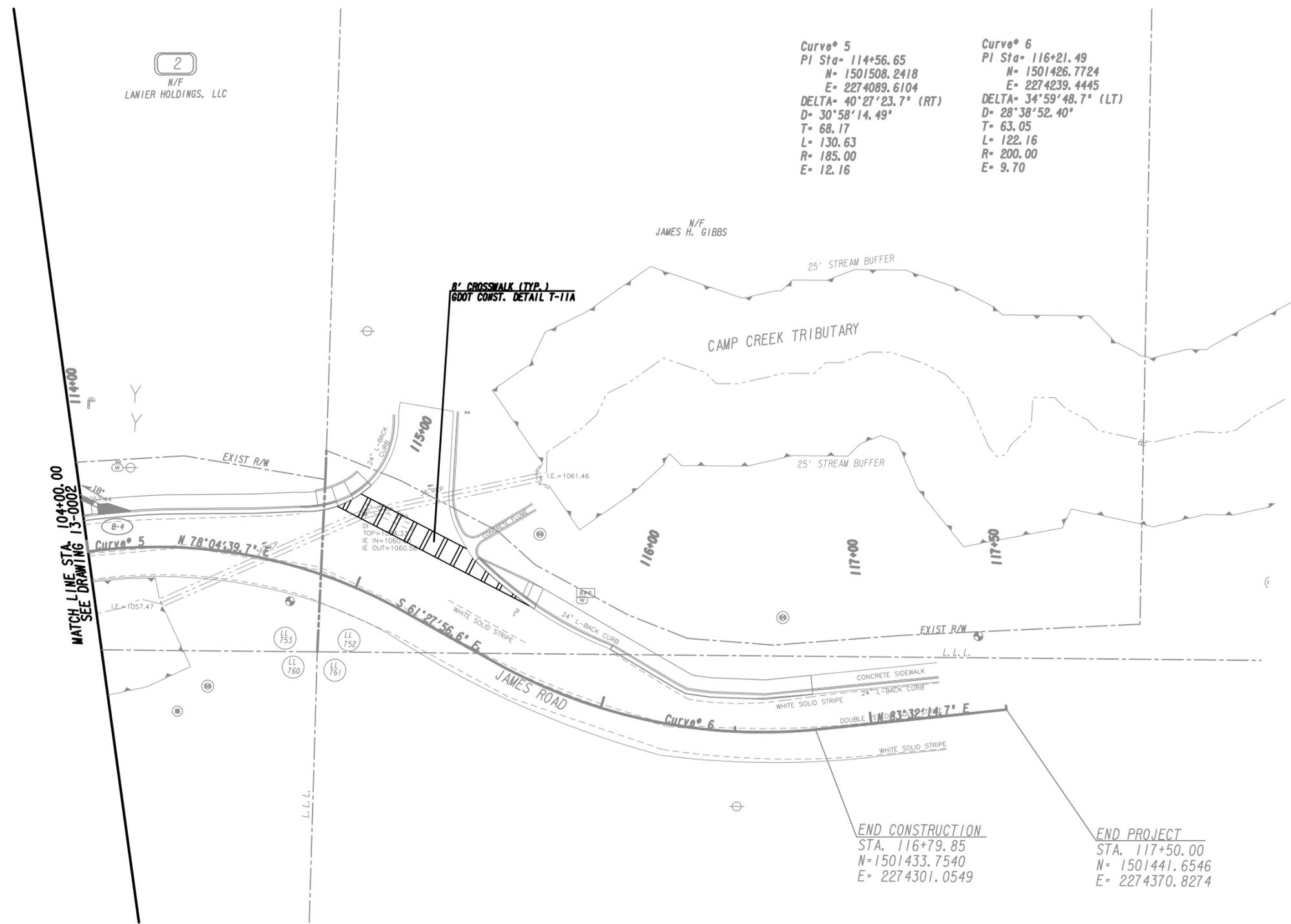


REVISION DATES	

SIGNING AND MARKING PLANS

JAMES ROAD
SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve 5
 PI Sta- 114+56.65
 N= 1501508.2418
 E= 2274089.6104
 DELTA- 40°27'23.7" (RT)
 D= 30°58'14.49"
 T= 68.17
 L= 130.63
 R= 185.00
 E= 12.16

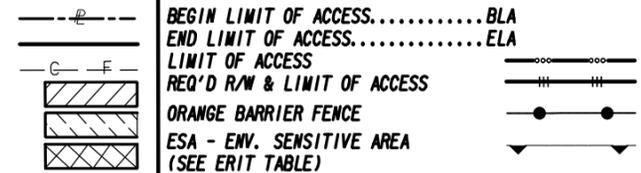
Curve 6
 PI Sta- 116+21.49
 N= 1501426.7724
 E= 2274239.4445
 DELTA- 34°59'48.7" (LT)
 D= 28°38'52.40"
 T= 63.05
 L= 122.16
 R= 200.00
 E= 9.70

MATCH LINE STA. 104+00.00
 SEE DRAWING 13-0002

END CONSTRUCTION
 STA. 116+79.85
 N= 1501433.7540
 E= 2274301.0549

END PROJECT
 STA. 117+50.00
 N= 1501441.6546
 E= 2274370.8274

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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REVISION DATES	

SIGNING AND MARKING PLANS

JAMES ROAD
 SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

ESPCP GENERAL NOTES

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

PLAN ALTERATIONS

THIS EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ESPCP) IS PROVIDED BY THE DEPARTMENT. IT ADDRESSES THE STAGED CONSTRUCTION OF THE PROJECT ON THE BASIS OF COMMON CONSTRUCTION METHODS AND TECHNIQUES. IF THE CONTRACTOR ELECTS TO ALTER THE STAGED CONSTRUCTION FROM THAT SHOWN IN THE PLANS OR UTILIZE CONSTRUCTION TECHNIQUES THAT RENDER THIS PLAN INEFFECTIVE, THE CONTRACTOR SHALL REVISE THE PLANS IN ACCORDANCE TO SPECIAL PROVISION 161 OF THE CONTRACT.

THE CONTRACTOR, THE CERTIFIED DESIGN PROFESSIONAL, AND THE WECS SHALL CAREFULLY EVALUATE THIS PLAN PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES. AMENDMENTS/REVISIONS TO THE ESPCP PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. ADDITIONAL BMP'S MAY BE ADDED PER SPECIAL PROVISION 161 - CONTROL OF SOIL EROSION AND SEDIMENTATION.

VEGETATION AND PLANTING SCHEDULE

ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES INCLUDING PLANT SPECIES, PLANTING DATES, SEEDING, FERTILIZING, LIMING, AND MULCHING FOR THIS PROJECT CAN BE FOUND IN SECTION 700 OF THE CURRENT EDITION OF THE DEPARTMENT'S STANDARD SPECIFICATIONS (OR SPECIAL PROVISIONS) AND OTHER APPLICABLE CONTRACT DOCUMENTS, OR LANDSCAPING PLANS.

THE SEEDING TABLE BELOW SHOULD BE USED IN DETERMINING GRASS SPECIES DEPENDENT ON PLANTING DATES. FORSYTH COUNTY IS IN PLANTING ZONE 1.

APPLY FERTILIZER AS FOLLOWS:
AGRICULTURAL LIME - UNIFORMLY SPREAD AGRICULTURAL LIME ON THE GROUND AT THE APPROXIMATE RATE DETERMINED BY THE LABORATORY SOIL TEST.

FERTILIZER MIXED GRADE - UNIFORMLY SPREAD THE FERTILIZER SELECTED OVER THE GROUND AT APPROXIMATELY 1,200 LBS/ACRE. IF USING HIGHER ANALYSIS FERTILIZER WITH HYDROSEEDING, APPLY IT AT THE SAME RATE PER ACRE AS THE STANDARD FERTILIZER.

SELECT FERTILIZER MIXED GRADE SUCH AS 10-10-10, 6-12-12, 5-10-15, OR OTHER ANALYSIS WITHIN THE FOLLOWING LIMITS:

- NITROGEN 5 TO 10 PERCENT
- PHOSPHORUS 10 TO 15 PERCENT
- POTASSIUM 10 TO 15 PERCENT

IF USING MIXED GRADE FERTILIZER FOR HYDROSEEDING, ENSURE IT HAS THE FOLLOWING ANALYSIS:

- NITROGEN 5 TO 19 PERCENT
- PHOSPHORUS 10 TO 19 PERCENT
- POTASSIUM 10 TO 19 PERCENT

SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING THE CONSTRUCTION SCHEDULE FOR THE PROJECT. THE CONSTRUCTION SCHEDULE FOR THIS PROJECT SHALL BE SUBMITTED AFTER THE PROJECT IS AWARDED ALONG WITH THE NOI. A COPY OF THE CONSTRUCTION SCHEDULE SHALL BE MAINTAINED AT THE PROJECT SITE.

THE PROJECT BUDGET INCLUDES SUFFICIENT FUNDS FOR THE PAYMENT OF CONSTRUCTION EXITS. THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AT LEAST ONE (1) CONSTRUCTION EXIT PER THE SPECIFICATIONS OF THE CONSTRUCTION EXIT DETAIL INCLUDED IN THIS ESPCP. TO FACILITATE PROJECT LOGISTICS, THE CONTRACTOR IS ALSO RESPONSIBLE FOR SELECTING THE LOCATION(S) OF THE CONSTRUCTION EXIT(S).

PHASE I

1. INSTALL STABILIZED CONSTRUCTION EXIT, IF REQUIRED.
2. INSTALL SILT FENCE(S) ON THE SITE. (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
3. PREPARE TEMPORARY PARKING AND STORAGE AREA AND INSTALL TEMPORARY SECURITY FENCE, IF REQUIRED.
4. INSTALL INLET PROTECTION MEASURES ON THE EXISTING DRAINAGE STRUCTURES AS INDICATED.
5. BEGIN DEMOLITION OF EXISTING FEATURES AS NOTED IN PLANS.

PHASE II

1. BEGIN CLEARING AND GRUBBING.
2. TEMPORARY SEED, THROUGHOUT CONSTRUCTION, DENuded AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE.
3. INSTALL ALL PROPOSED STORM SEWER STRUCTURES. REMOVE EXISTING STORM SEWER SYSTEM AS INDICATED AS NEW STORM SEWER CONSTRUCTION IS COMPLETED.
4. INSTALL OUTLET PROTECTION AROUND OUTLET STRUCTURES AS EACH OUTLET STRUCTURE IS INSTALLED.
5. INSTALL INLET PROTECTION AT ALL STORM SEWER STRUCTURES AS EACH INLET STRUCTURE IS INSTALLED.
6. CONSTRUCT UNDERGROUND UTILITIES.

PHASE III

1. PERMANENTLY STABILIZE ALL DISTURBED AREAS.
2. REMOVE TEMPORARY BMP'S.
3. INSPECTION AND MAINTENANCE REPORT FORMS ARE TO BE MAINTAINED BY THE CONTRACTOR FOR THREE YEARS FOLLOWING FINAL STABILIZATION OF THE SITE.

NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY ONLY IF PRECEDING BMP'S HAVE BEEN COMPLETELY INSTALLED.

TEMPORARY MULCHING

EPD GENERAL PERMIT GAR 100002 STATES THAT ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. HOWEVER IN SPECIAL CASES, THE PROJECT ENGINEER MAY REQUIRE THE CONTRACTOR TO PERFORM STABILIZATION MORE OFTEN THAN 14 DAYS.

PETROLEUM STORAGE, SPILLS, AND LEAKS

THESE PLANS EXPRESSLY DELEGATE THE RESPONSIBILITY OF PROPER ON-SITE HAZARDOUS MATERIAL MANAGEMENT TO THE CONTRACTOR. THE CONTRACTOR SHALL AT A MINIMUM PROVIDE AN ACTION PLAN AND KEEP THE NECESSARY MATERIALS ON SITE FOR THE CAPTURE, CLEAN UP, AND DISPOSAL OF ANY PETROLEUM PRODUCT, OR OTHER HAZARDOUS MATERIAL, LEAKS OR SPILLS ASSOCIATED WITH THE SERVICING, REFUELING OR OPERATION OF ANY EQUIPMENT UTILIZED AT THE SITE. A COPY OF THE ACTION PLAN SHALL BE SUBMITTED TO THE PROJECT ENGINEER AND MAINTAINED ON THE PROJECT SITE. ALL PERSONNEL OPERATING OR SERVICING EQUIPMENT SHALL BE FAMILIAR WITH THE ACTION PLAN. THE CONTRACTOR SHALL NOT PARK, REFUEL, OR MAINTAIN EQUIPMENT WITHIN STREAM BUFFERS.

IF THE CONTRACTOR ELECTS TO STORE PETROLEUM PRODUCTS ON SITE, THE CONTRACTOR SHALL PREPARE AN ESPCP ADDENDUM THAT ADDRESSES THE ADDITIONAL BMPs NEEDED FOR ONSITE STORAGE AND SPILL PREVENTION FOR PETROLEUM PRODUCTS. THIS PLAN SHALL BE PREPARED BY A CERTIFIED DESIGN PROFESSIONAL AS REQUIRED BY GAR100002 FOR INCLUSION WITH THESE PLANS. THE CONTRACTOR'S ATTENTION IS SPECIFICALLY DIRECTED TO STANDARD SPECIFICATION 107-LEGAL REGULATIONS AND RESPONSIBILITY TO THE PUBLIC FOR ADDITIONAL REQUIREMENTS.

SOIL SERIES INFORMATION

THE FOLLOWING IS A SUMMARY OF THE SOILS THAT ARE EXPECTED TO BE FOUND ON THE PROJECT SITE:

- Ab ALLUVIAL LAND, MODERATELY WELL DRAINED
- AdB2 APPLING SANDY CLAY LOAM, ERODED VERY GENTLY SLOPING PHASE
- AdC2 APPLING SANDY CLAY LOAM, ERODED GENTLY SLOPING PHASE
- AdE3 APPLING SANDY CLAY LOAM, SEVERELY ERODED, MODERATELY STEEP PHASE
- AbB APPLING SANDY CLAY LOAM, 2 TO 6 PERCENT SLOPES
- CoC3 CECIL FINE SANDY LOAM, SEVERELY ERODED, GENTLY SLOPING PHASE
- CoE CECIL FINE SANDY LOAM, MODERATELY STEEP PHASE
- CoB CECIL FINE SANDY LOAM, VERY GENTLY SLOPING PHASE
- CoB2 CECIL FINE SANDY LOAM, 2 TO 6 PERCENT SLOPES, MODERATELY ERODED
- CoC CECIL FINE SANDY LOAM, 6 TO 10 PERCENT SLOPES
- CoC2 CECIL FINE SANDY LOAM, 6 TO 10 PERCENT SLOPES, MODERATELY ERODED
- CoD CECIL FINE SANDY LOAM, 10 TO 15 PERCENT SLOPES
- CoD2 CECIL FINE SANDY LOAM, ERODED SLOPING PHASE
- MbB2 MADISON FINE SANDY LOAM, ERODED VERY GENTLY SLOPING PHASE
- MbC2 MADISON FINE SANDY LOAM, ERODED GENTLY SLOPING PHASE

POST-CONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT

ALL PERMANENT POST-CONSTRUCTION BMP'S ARE SHOWN IN THE CONSTRUCTION PLANS AND IN THE ESPCP PLAN. THE POST-CONSTRUCTION BMP'S FOR THIS PROJECT CONSIST OF PERMANENT DETENTION PONDS, SAND FILTER BASINS, VEGETATION, PERMANENT SLOPE DRAINS AND/OR FLUMES, RIPRAP AT PIPE OUTLETS FOR VELOCITY DISSIPATION AND OUTLET STABILIZATION, VEGETATED SWALES/DITCHES WHERE PRACTICAL, CHANNEL/DITCH STABILIZATION WITH TURF REINFORCING MATS, RIPRAP AND CONCRETE DITCH LINING WHERE NECESSARY. THE POST-CONSTRUCTION BMP'S WILL PROVIDE PERMANENT STABILIZATION OF THE SITE AND PREVENT ABNORMAL TRANSPORTATION OF SEDIMENT AND POLLUTANTS INTO RECEIVING WATERS.

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS

SILT FENCE SHOULD NEVER BE RUN CONTINUOUSLY. THE SILT FENCE SHOULD TURN BACK INTO THE FILL OR SLOPE TO CREATE SMALL POCKETS THAT TRAP SILT AND FORCE STORMWATER TO FLOW THROUGH THE SILT FENCE. THIS TECHNIQUE IS CALLED USING J HOOKS (OR SPURS). THE J HOOKS SHALL BE UTILIZED ON ALL SILT FENCES THAT ARE LOCATED AROUND THE PERIMETER OF THE PROJECT AND ALONG THE TOE OF EMBANKMENTS OR SLOPES. THE J HOOKS SHALL BE SPACED IN ACCORDANCE WITH GDOT CONSTRUCTION DETAIL D-24C. THE MAXIMUM J-HOOK SPACING IS REACHED WHEN THE TOP OF THE J HOOK IS AT THE SAME ELEVATION AS THE BOTTOM OF THE IMMEDIATELY UPGRADIENT J HOOK. J HOOKS SHALL BE PAID FOR AS SILT FENCE ITEMS PER LINEAR FOOT. ALL COSTS AND OTHER INCIDENTAL ITEMS ARE INCLUDED IN COST OF INSTALLING AND MAINTAINING THE SILT FENCE.

SITE STABILIZATION AND BMP MAINTENANCE MEASURES

SEE THE DEPARTMENT'S STANDARD SPECIFICATIONS (OR SPECIAL PROVISIONS) 161, 163, 165, 700, 711, AND OTHER CONTRACT DOCUMENTS FOR STABILIZATION AND MAINTENANCE MEASURES.

WASTE DISPOSAL

WHERE ATTAINABLE, LOCATE WASTE COLLECTION AREAS, DUMPSTERS, TRASH CANS AND PORTABLE TOILETS AT LEAST 50 FEET AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. SECONDARY CONTAINMENT SHALL BE PROVIDED AROUND LIQUID WASTE COLLECTION AREAS TO MINIMIZE THE LIKELIHOOD OF CONTAMINATED DISCHARGES. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE STORAGE AND DISPOSAL REGULATIONS AND OBTAIN ALL NECESSARY PERMITS. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

INSPECTIONS

THE DESIGN PROFESSIONAL WHO PREPARED THE ESPCP PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPs AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5. WITHIN 7 DAYS AFTER INSTALLATION.

EACH DAY, AS SPECIFIED IN THE CURRENT GAR100002 PERMIT, THE WORKSITE EROSION CONTROL SUPERVISOR (WECS) OR CERTIFIED PERSONNEL SHALL:

- A. INSPECT ALL AREAS WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT
- B. INSPECT ALL LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING
- C. MEASURE RAINFALL ONCE EVERY 24 HOURS

AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER, AS SPECIFIED IN THE CURRENT GAR100002 PERMIT, THE WORKSITE EROSION CONTROL SUPERVISOR (WECS) OR CERTIFIED PERSONNEL SHALL INSPECT THE FOLLOWING:

- A. DISTURBED AREAS OF THE CONSTRUCTION SITE
- B. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
- C. STRUCTURAL CONTROL MEASURES (BMPs)

THE CONTRACTOR IS TO CALL THE ENGINEER WITHIN 7 DAYS OF IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN TO SCHEDULE AN INSPECTION BY THE ENGINEER. THE ENGINEER SHALL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN SEVEN (7) DAYS OF INSTALLATION OVER THE ENTIRE INFRASTRUCTURE PROJECT. ALTERNATIVELY, THE ENGINEER SHALL INSPECT THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs FOR THE INITIAL SEGMENT, AS DEFINED BY PART IV.A.5. OF THE CURRENT GAR100002 PERMIT, WITHIN SEVEN (7) DAYS OF INSTALLATION AND INSPECT ALL SEDIMENT BASINS WITHIN THE ENTIRE LINEAR INFRASTRUCTURE PROJECT WITHIN SEVEN (7) DAYS OF INSTALLATION.

THE ENGINEER SHALL REPORT THE RESULTS TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS, AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT, UNLESS ON-SITE WEATHER CONDITIONS ARE SUCH THAT MORE TIME IS REQUIRED.

AT LEAST ONCE PER MONTH THE WECS OR CERTIFIED PERSONNEL SHALL INSPECT THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

NONSTORMWATER DISCHARGES

NON-STORM WATER DISCHARGES DEFINED IN PART III.A.2 OF THE NPDES PERMIT WILL BE IDENTIFIED AFTER CONSTRUCTION HAS COMMENCED. THESE DISCHARGES SHALL BE SUBJECT TO THE SAME REQUIREMENTS AS STORM WATER DISCHARGES REQUIRED BY THE GEORGIA EROSION AND SEDIMENTATION CONTROL ACT, THE NPDES PERMIT, THE CLEAN WATER ACT, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, DEPARTMENT STANDARDS, AND OTHER CONTRACT DOCUMENTS. THE NPDES DOES NOT AUTHORIZE THE DISCHARGE OF SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING OR THE DISCHARGE OF WASTEWATER FROM WASHOUT AND CLEANOUT OF CONTAINERS FOR STUCCO, PAINT, CONCRETE-FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.

DE-WATERING AND PUMPING ACTIVITIES

ANY PUMPED DISCHARGE FROM AN EXCAVATION OR DISTURBED AREA SHALL BE ROUTED THROUGH AN APPROPRIATELY SIZED SEDIMENT BASIN, SILT FILTER BAG, OR SHALL BE TREATED EQUIVALENTLY WITH SUITABLE BMP'S. THE CONTRACTOR SHALL ENSURE THE POST BMP TREATED DISCHARGE IS SHEET FLOWING. FAILURE TO CREATE SHEET FLOW WILL OBLIGATE THE CONTRACTOR TO PERFORM WATER QUALITY SAMPLING OF PUMPED DISCHARGES. THE CONTRACTOR SHALL PREPARE SAMPLING PLANS IN ACCORDANCE WITH THE CURRENT GAR100002 NPDES PERMIT BY UTILIZING A CERTIFIED DESIGN PROFESSIONAL. NO SEPARATE PAYMENT WILL BE MADE FOR WATER QUALITY SAMPLING OF PUMP DISCHARGES.

OTHER CONTROLS

THE CONTRACTOR SHALL FOLLOW THIS ESPCP AND ENSURE AND DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE STATE AND/OR LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER AND SEPTIC SYSTEMS, AND PETROLEUM STORAGE.

THE CONTRACTOR SHALL CONTROL DUST FROM THE SITE IN ACCORDANCE WITH SECTION 161 OF THE CURRENT EDITION OF THE DEPARTMENT'S STANDARD SPECIFICATIONS.

REVISION DATES		ESPCP GENERAL NOTES	
		JAMES ROAD SIDEWALK IMPROVEMENTS	
		CHECKED: _____	DATE: _____
		BACKCHECKED: _____	DATE: _____
		CORRECTED: _____	DATE: _____
		VERIFIED: _____	DATE: _____
			DRAWING No. 51-0001



CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE 	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE 	
		ESA-25' (OR 50') STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL 	
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds2	TEMPORARY GRASSING SECTION 163, 700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL 	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		PATTERN 	
F1-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		SYMBOL 	
		POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 1 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No. 52-0001	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
		PATTERN 	
Tac	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
		SYMBOL 	
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM GA. STD 1031 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	

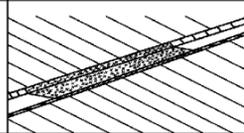
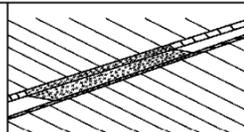
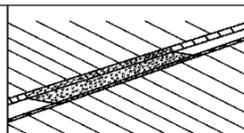
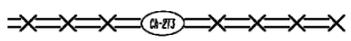
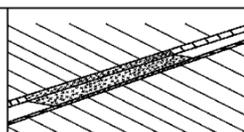
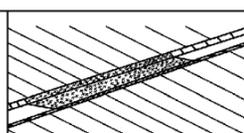
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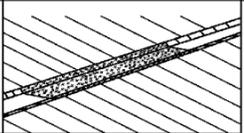
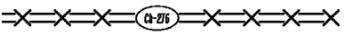
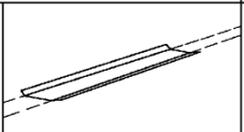
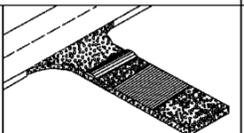
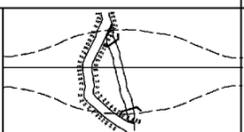
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 2 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No.
			52-0002

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES > 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.E. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

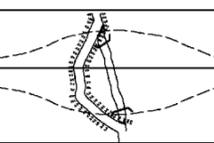
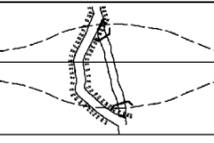
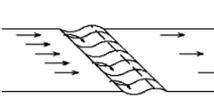
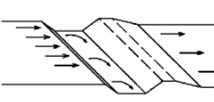
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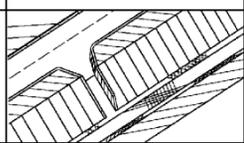
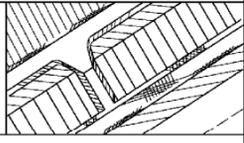
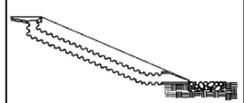
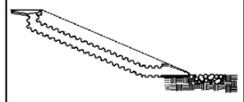
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
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NO SCALE

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 3 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
			DRAWING No.
			52-0003

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps.
	LINE CODE		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps.
	LINE CODE		THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
D1-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET, DOWN DRAINS 'Dn1' OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE		
D1-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP.
	LINE CODE		RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10".
	LINE CODE		THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE 'A' IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE 'B' IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE		

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.



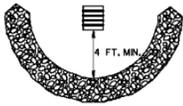
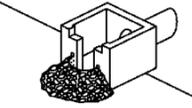
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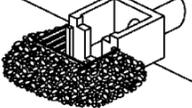
REVISION DATES	
3/2/2017	

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 4 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		
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52-0004

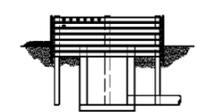
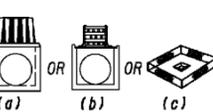
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR ADDITIONAL INFORMATION ON USAGE.
		SYMBOL 	
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
		SYMBOL 	
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH #57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
		LINE CODE 	
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
		PATTERN 	
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.
		SYMBOL 	

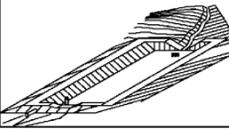
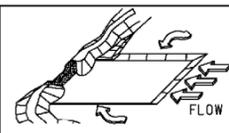
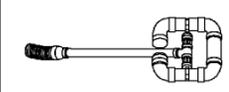
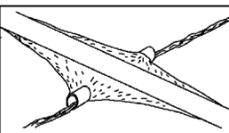
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.
		SYMBOL 	
Rt-Sg1	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 FRONT VIEW	A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1-TYPE 1: USED ON BOX CULVERTS Rt-Sg2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
Rt-Sg2			
Rt-Sg3			
		SYMBOL 	
Sd1-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
		LINE CODE 	
Sd1-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
		LINE CODE 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

	NO SCALE	REVISION DATES	EROSION CONTROL LEGEND	
		3/2/2017	UNIFORM CODE SHEET	
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			CHECKED: D. EASLETON	DATE: 01/01/16
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			VERIFIED:	DATE:
			DRAWING No. 52-0005	

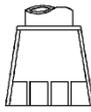
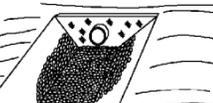
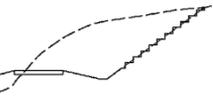
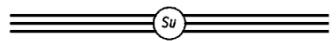
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * (Sd1-BB) * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL (Sd2-B)		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL (Sd2-Bg)		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-42 SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL (Sd2-F)		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL (Sd2-G)		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL (Sd3)		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL (Sd4-C)		
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL (Sk)		
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SYMBOL (Sr)		

NOTE:

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- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
		SYMBOL 	
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 ≤ 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 ≤ 0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
		PATTERN 	
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
		LINE CODE 	
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
		LINE CODE 	
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
		LINE CODE 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



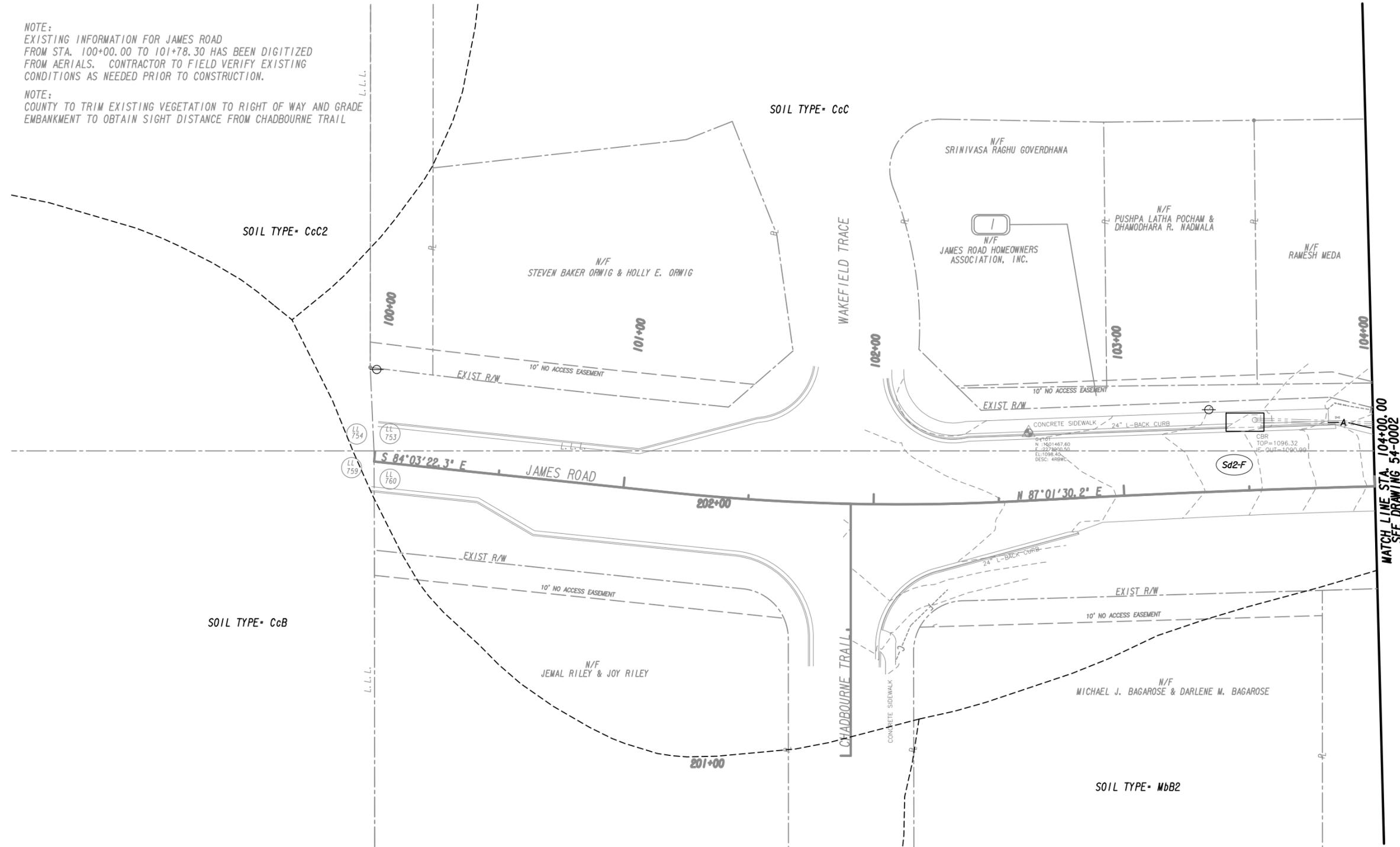
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REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 7 OF 7	
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DRAWING No. 52-0007

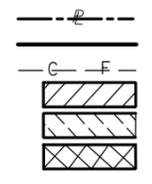
NOTE:
EXISTING INFORMATION FOR JAMES ROAD
FROM STA. 100+00.00 TO 101+78.30 HAS BEEN DIGITIZED
FROM AERIALS. CONTRACTOR TO FIELD VERIFY EXISTING
CONDITIONS AS NEEDED PRIOR TO CONSTRUCTION.

NOTE:
COUNTY TO TRIM EXISTING VEGETATION TO RIGHT OF WAY AND GRADE
EMBANKMENT TO OBTAIN SIGHT DISTANCE FROM CHADBOURNE TRAIL



MATCH LINE STA. 104+00.00
SEE DRAWING 54-0002

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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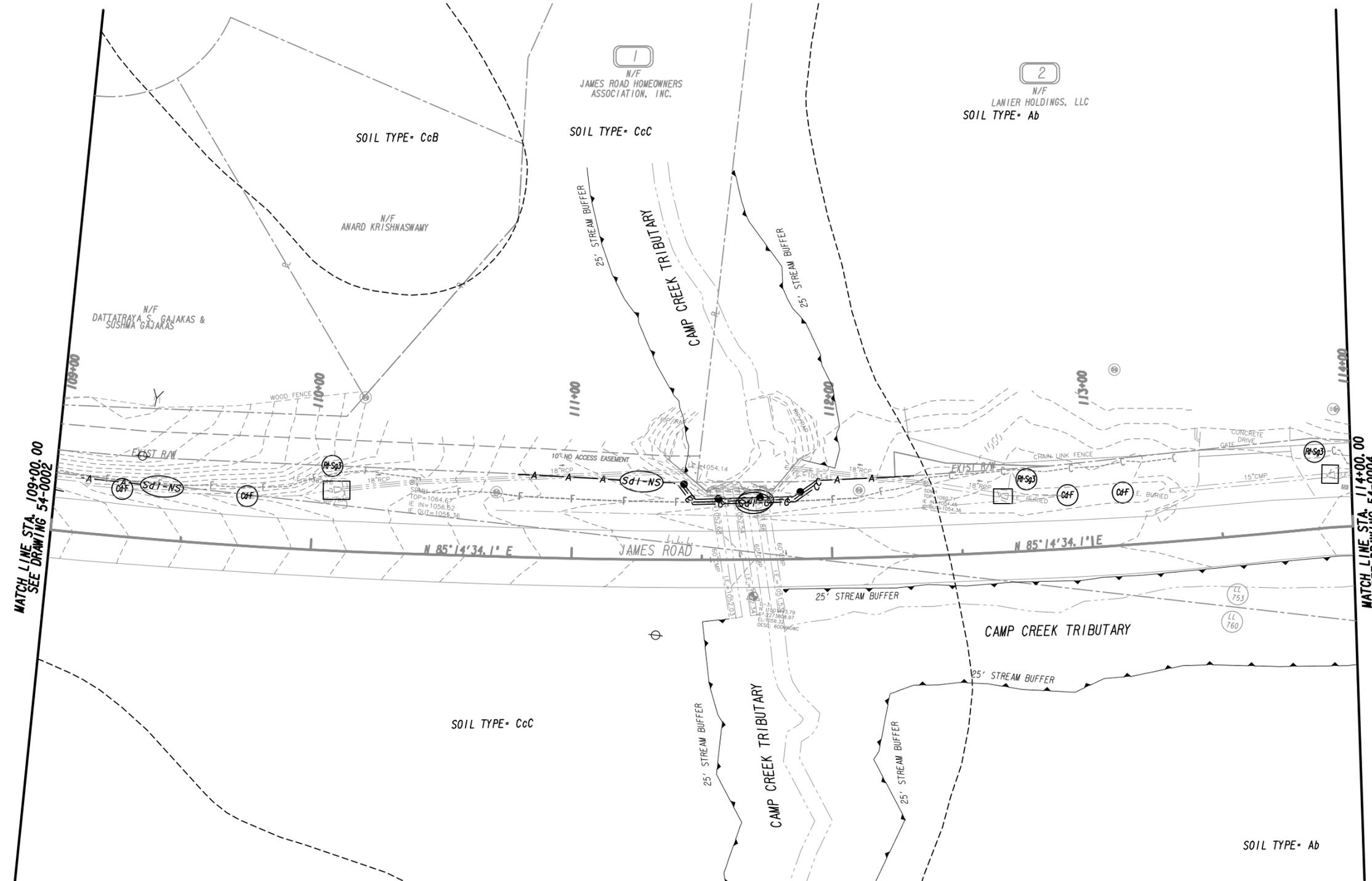
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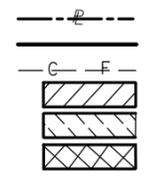
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**BMP LOCATION DETAILS
PHASE I
JAMES ROAD
SIDEWALK IMPROVEMENTS**

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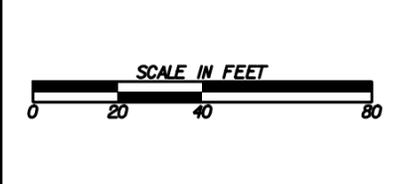
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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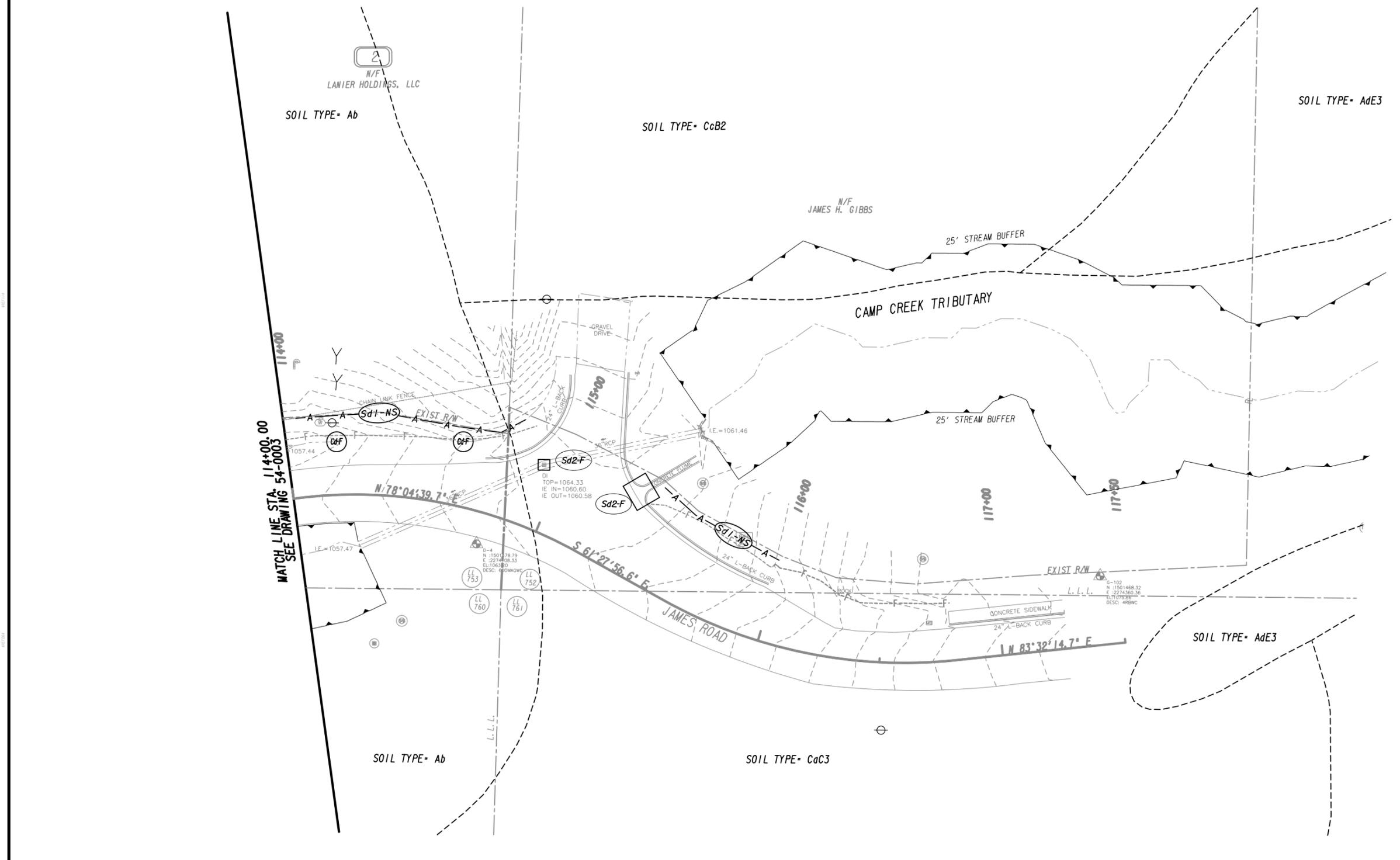
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Phone: 770-447-8999
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REVISION DATES	

**BMP LOCATION DETAILS
PHASE I
JAMES ROAD
SIDEWALK IMPROVEMENTS**

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BACKCHECKED:	DATE:	54-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

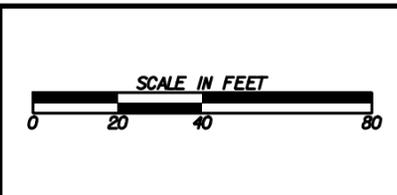


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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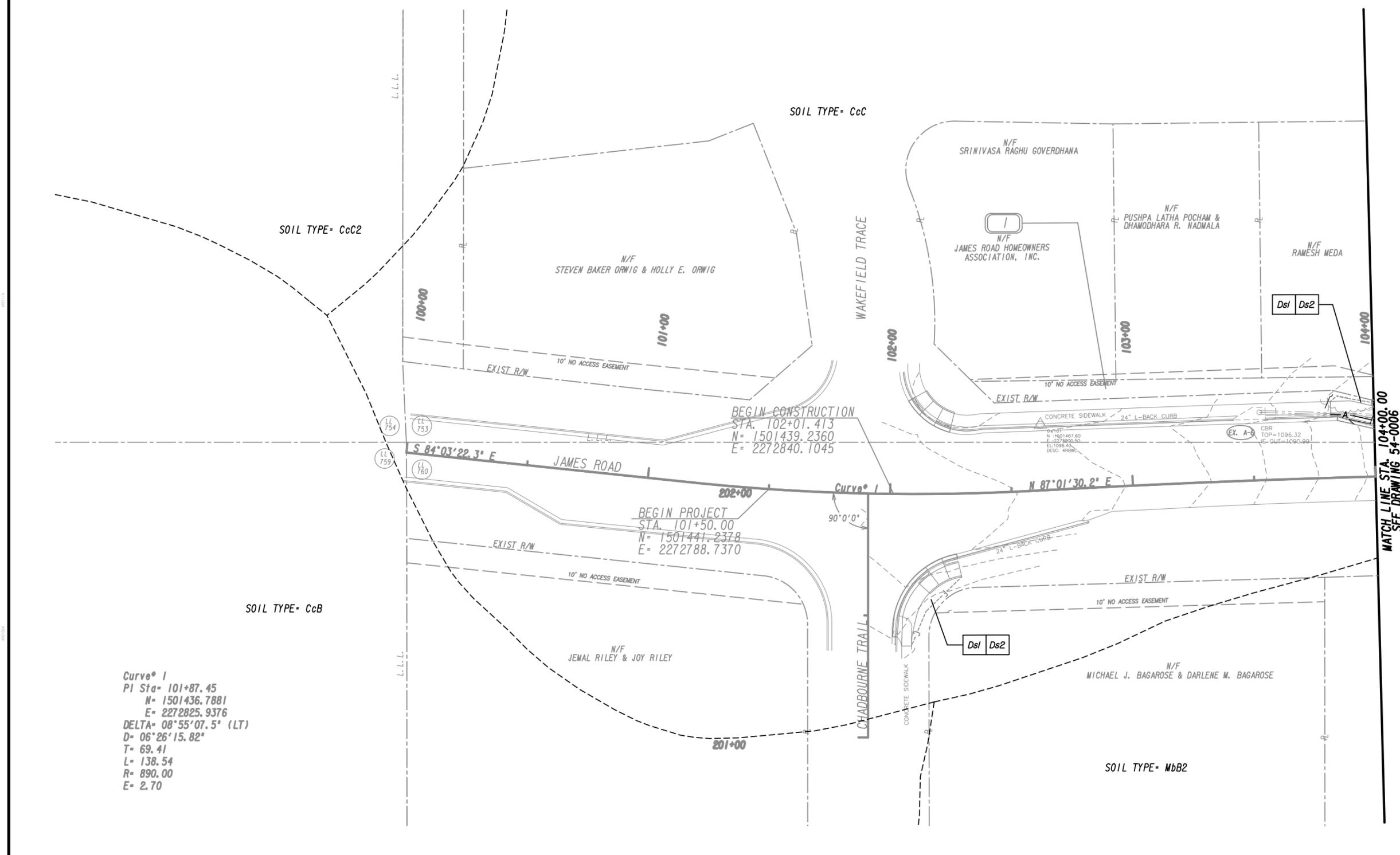
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REVISION DATES	

**BMP LOCATION DETAILS
 PHASE I
 JAMES ROAD
 SIDEWALK IMPROVEMENTS**

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BACKCHECKED:	DATE:	54-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



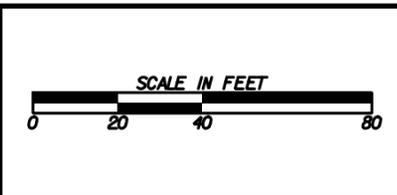
Curve 1
 PI Sta= 101+87.45
 N= 1501436.7881
 E= 2272825.9376
 DELTA= 08°55'07.5" (LT)
 D= 06'26'15.82"
 T= 69.41
 L= 138.54
 R= 890.00
 E= 2.70

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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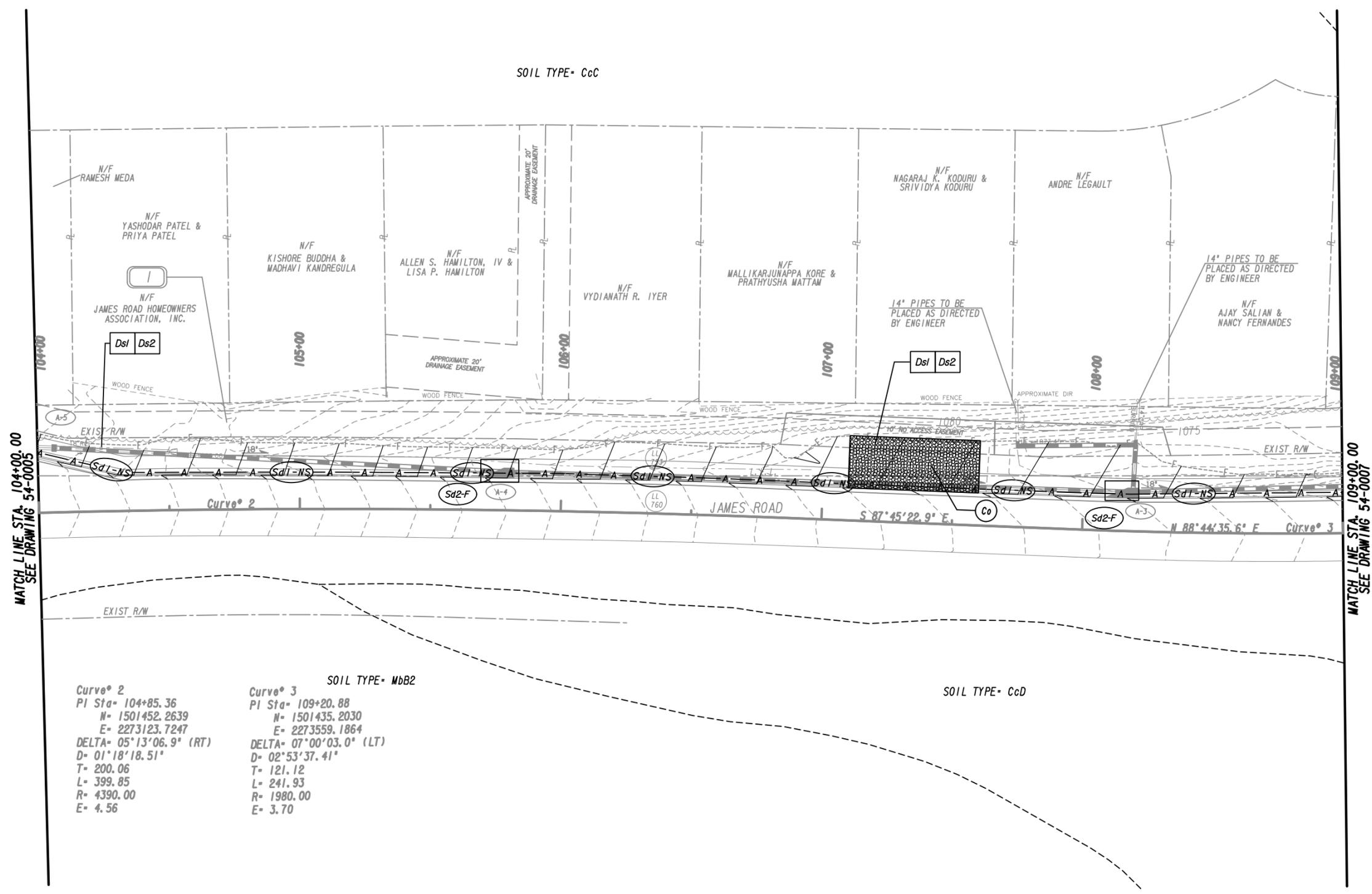
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REVISION DATES

**BMP LOCATION DETAILS
 PHASE II
 JAMES ROAD
 SIDEWALK IMPROVEMENTS**

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



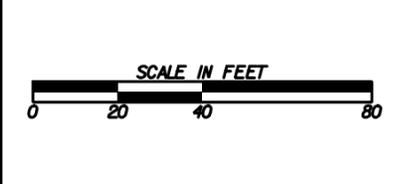
Curve 2
 PI Sta- 104+85.36
 N= 1501452.2639
 E= 2273123.7247
 DELTA- 05°13'06.9" (RT)
 D= 01'18"18.51"
 T= 200.06
 L= 399.85
 R= 4390.00
 E= 4.56

Curve 3
 PI Sta- 109+20.88
 N= 1501435.2030
 E= 2273559.1864
 DELTA- 07°00'03.0" (LT)
 D= 02'53'37.41"
 T= 121.12
 L= 241.93
 R= 1980.00
 E= 3.70

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
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 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

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 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

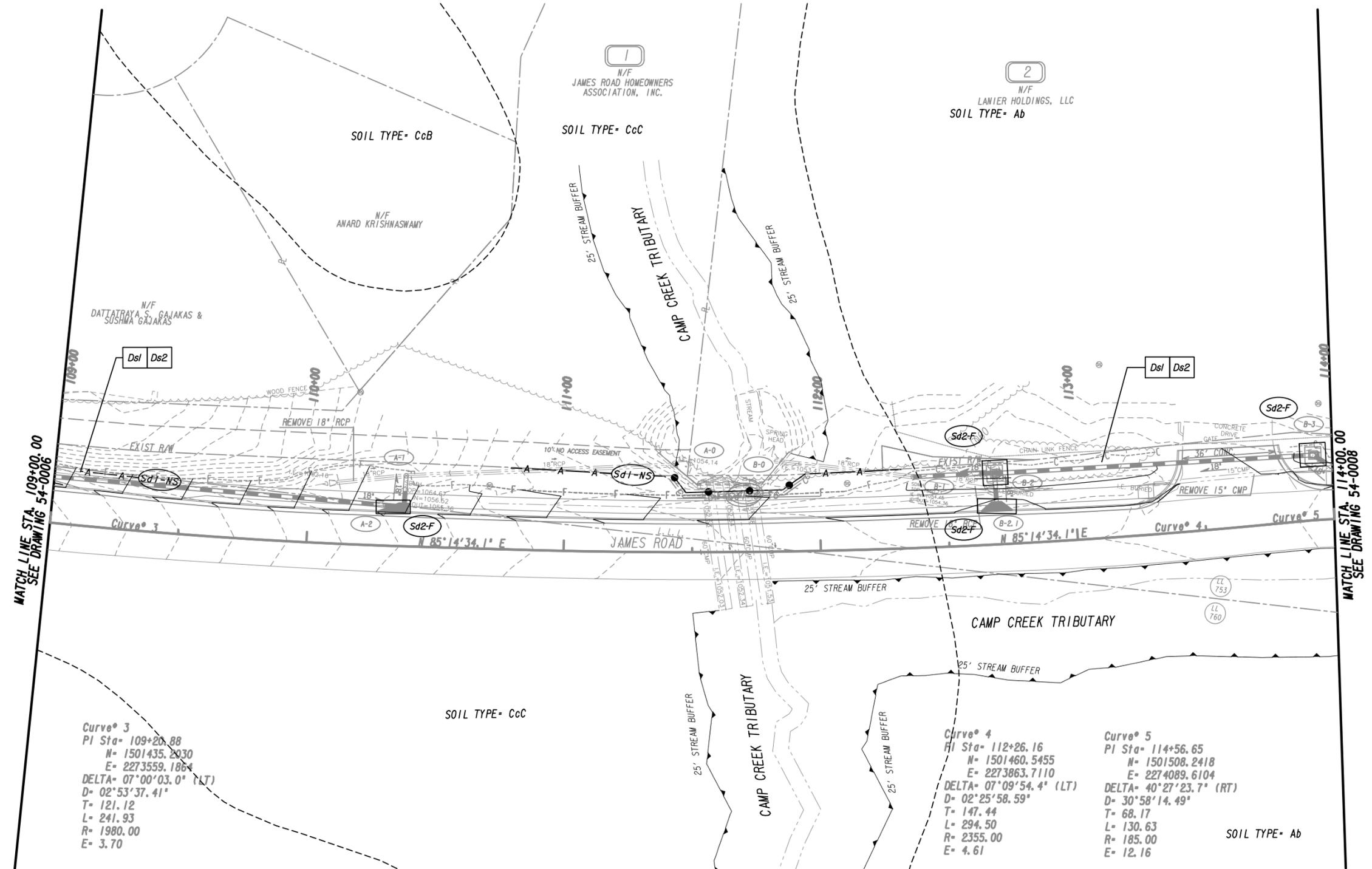
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REVISION DATES	

**BMP LOCATION DETAILS
 PHASE II
 JAMES ROAD
 SIDEWALK IMPROVEMENTS**

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0006
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve 3
 PI Sta- 109+20.88
 N- 1501435.2030
 E- 2273559.1864
 DELTA- 07°00'03.0" (LT)
 D- 02°53'37.41"
 T- 121.12
 L- 241.93
 R- 1980.00
 E- 3.70

Curve 4
 PI Sta- 112+26.16
 N- 1501460.5455
 E- 2273863.7110
 DELTA- 07°09'54.4" (LT)
 D- 02°25'58.59"
 T- 147.44
 L- 294.50
 R- 2355.00
 E- 4.61

Curve 5
 PI Sta- 114+56.65
 N- 1501508.2418
 E- 2274089.6104
 DELTA- 40°27'23.7" (RT)
 D- 30°58'14.49"
 T- 68.17
 L- 130.63
 R- 185.00
 E- 12.16

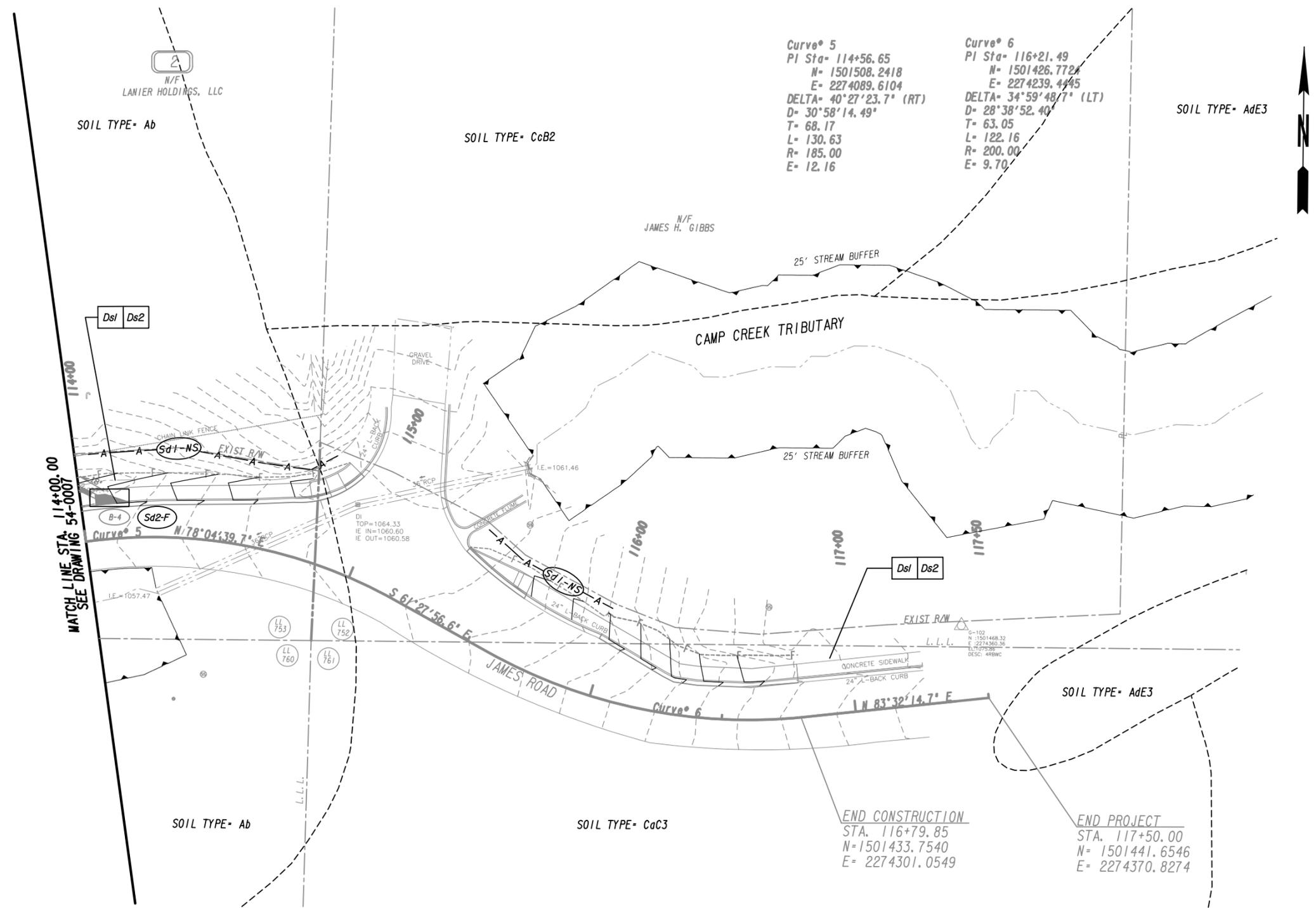
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 REQUIRED R/W LINE
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 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
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BEGIN LIMIT OF ACCESS.....BLA
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 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

BMP LOCATION DETAILS PHASE II JAMES ROAD SIDEWALK IMPROVEMENTS			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-0007	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



Curve 5
PI Sta- 114+56.65
N= 1501508.2418
E= 2274089.6104
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D= 30°58'14.49"
T= 68.17
L= 130.63
R= 185.00
E= 12.16

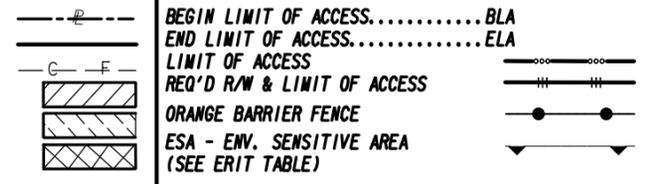
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N= 1501426.7724
E= 2274239.4445
DELTA- 34°59'48.7" (LT)
D= 28°38'52.40"
T= 63.05
L= 122.16
R= 200.00
E= 9.70

MATCH LINE STA. 114+00.00
SEE DRAWING 54-0007

END CONSTRUCTION
STA. 116+79.85
N= 1501433.7540
E= 2274301.0549

END PROJECT
STA. 117+50.00
N= 1501441.6546
E= 2274370.8274

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

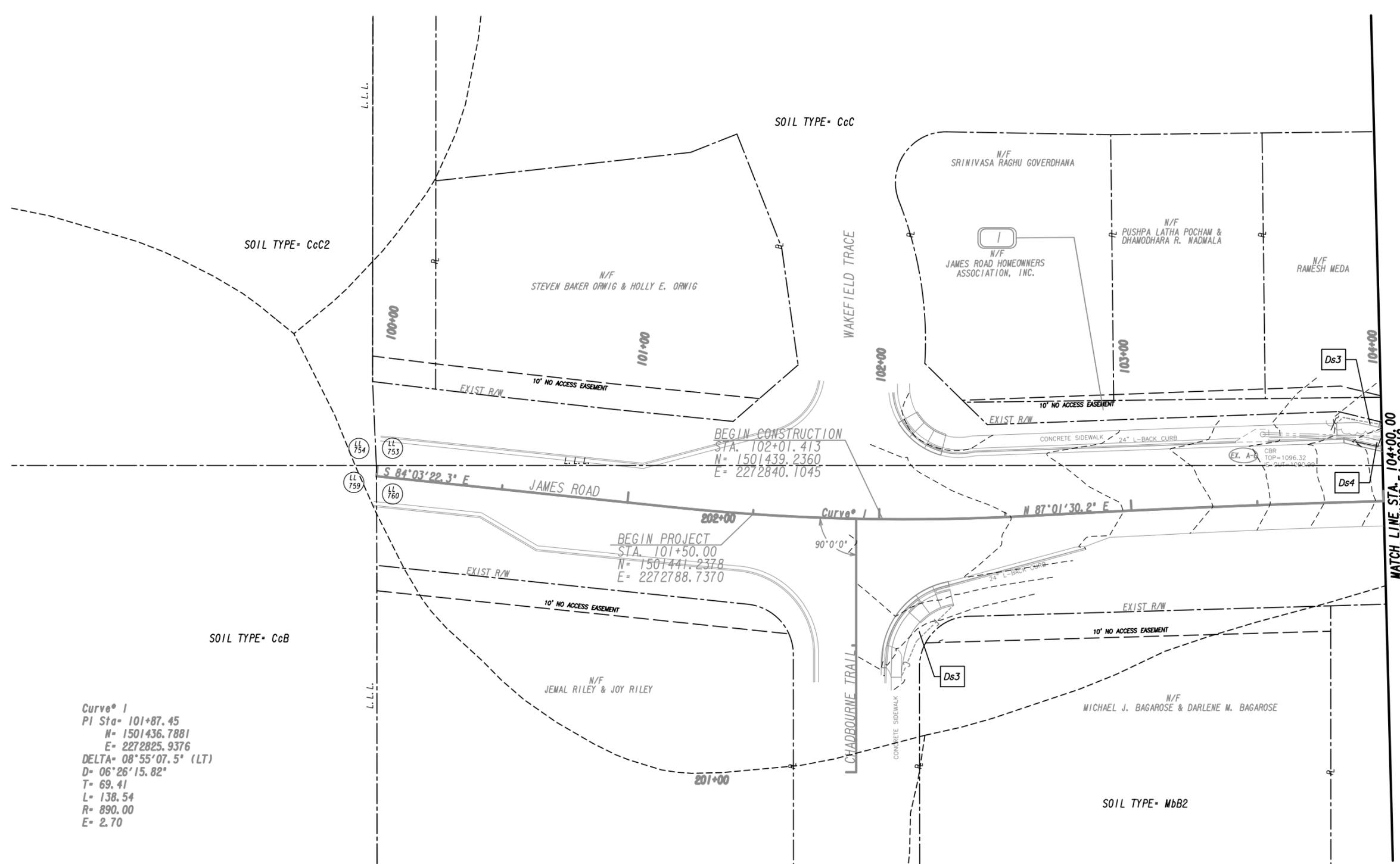


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REVISION DATES	

BMP LOCATION DETAILS PHASE II JAMES ROAD SIDEWALK IMPROVEMENTS		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve 1
 PI Sta= 101+87.45
 N= 1501436.7881
 E= 2272825.9376
 DELTA= 08°55'07.5" (LT)
 D= 06°26'15.82"
 T= 69.41
 L= 138.54
 R= 890.00
 E= 2.70

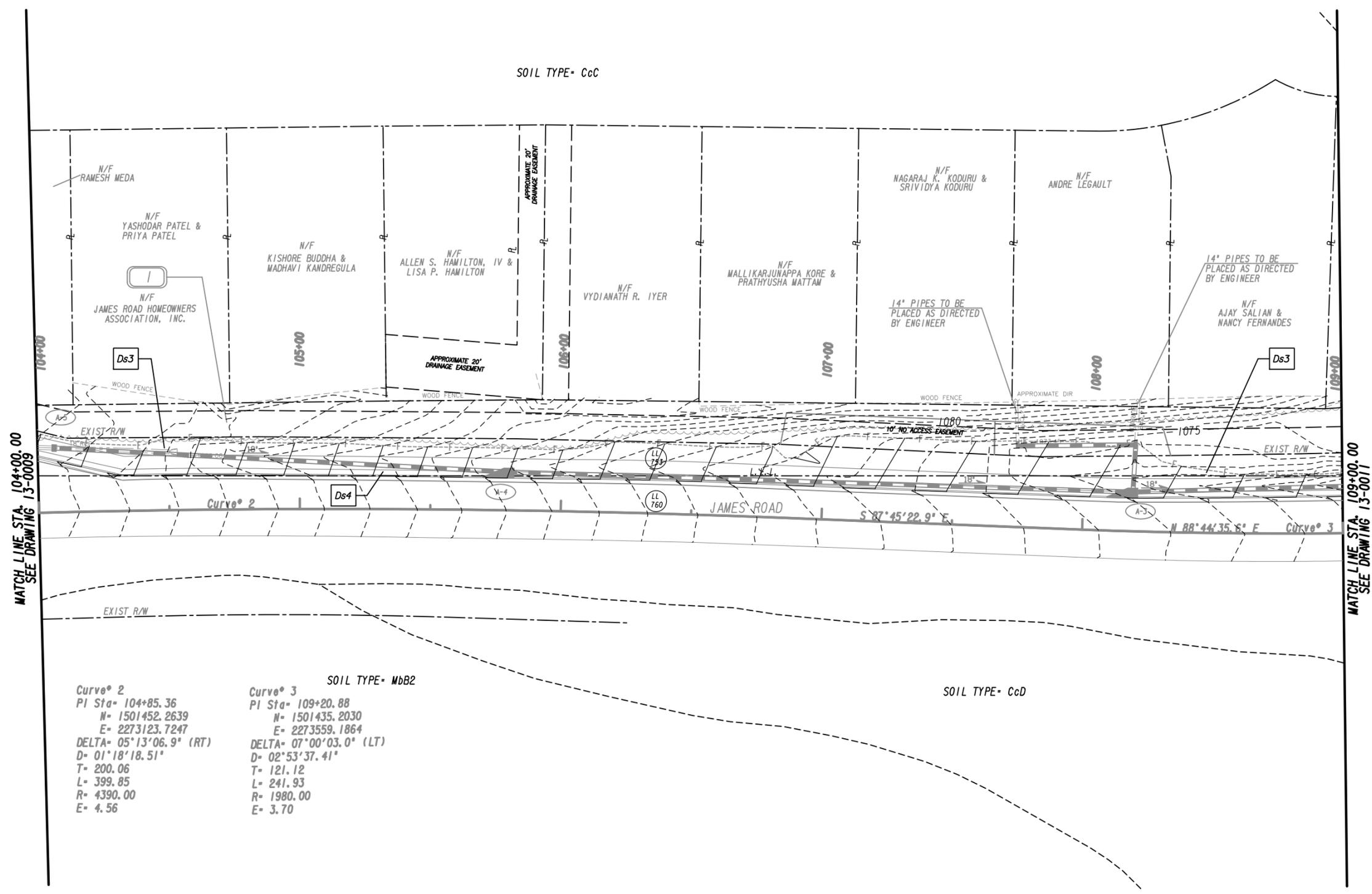
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 REQUIRED R/W LINE
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 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

BMP LOCATION DETAILS PHASE III JAMES ROAD SIDEWALK IMPROVEMENTS			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-0009	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



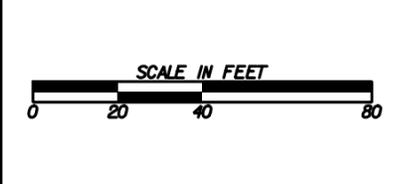
Curve 2
 PI Sta- 104+85.36
 N= 1501452.2639
 E= 2273123.7247
 DELTA- 05°13'06.9" (RT)
 D= 01'18"18.51"
 T= 200.06
 L= 399.85
 R= 4390.00
 E= 4.56

Curve 3
 PI Sta- 109+20.88
 N= 1501435.2030
 E= 2273559.1864
 DELTA- 07°00'03.0" (LT)
 D= 02°53'37.41"
 T= 121.12
 L= 241.93
 R= 1980.00
 E= 3.70

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
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 EASEMENT FOR CONSTR
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 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

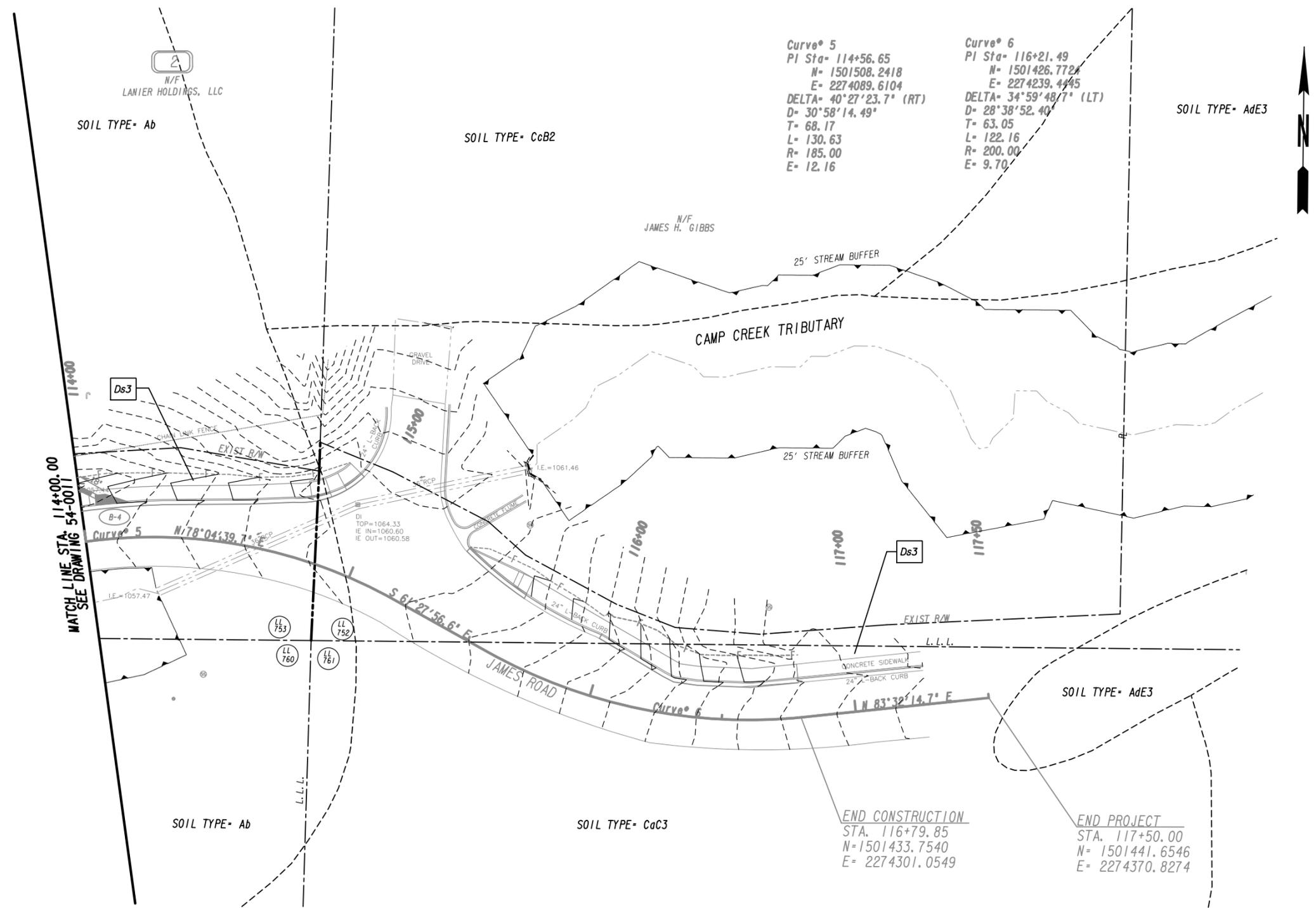
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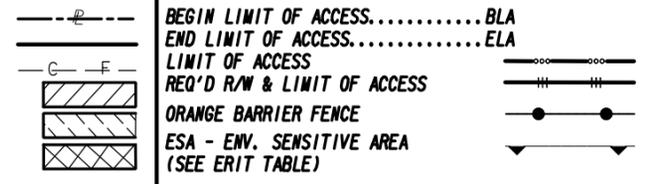
REVISION DATES	

**BMP LOCATION DETAILS
 PHASE III
 JAMES ROAD
 SIDEWALK IMPROVEMENTS**

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0010
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
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 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

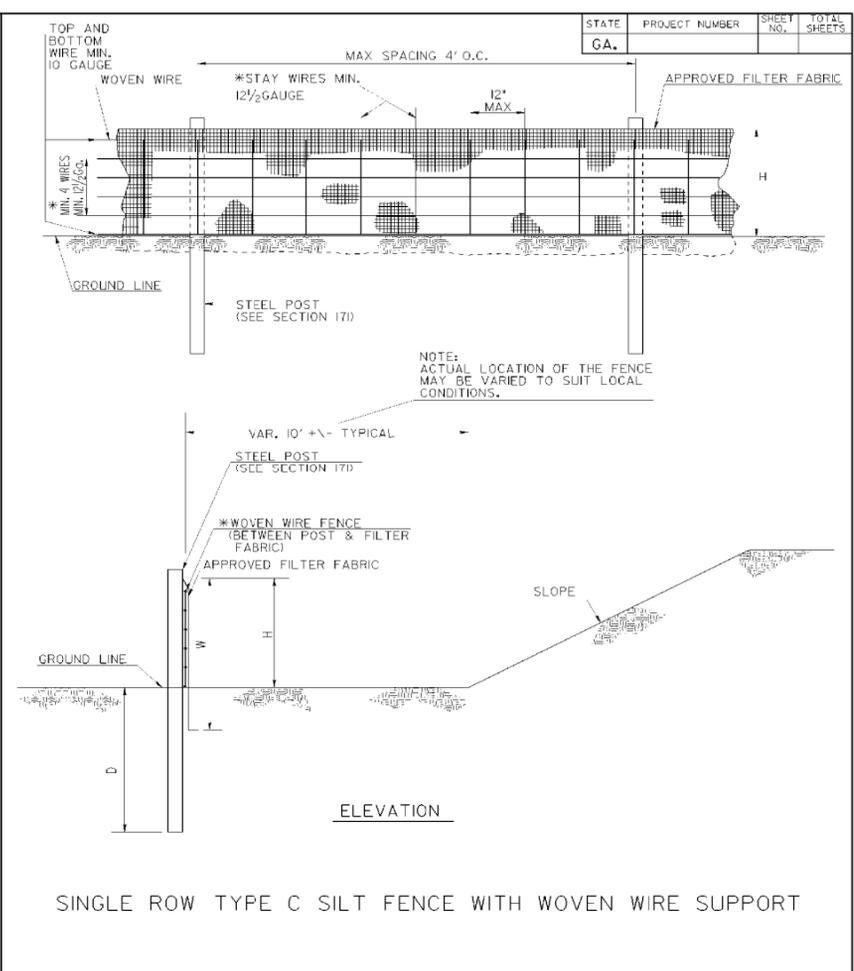
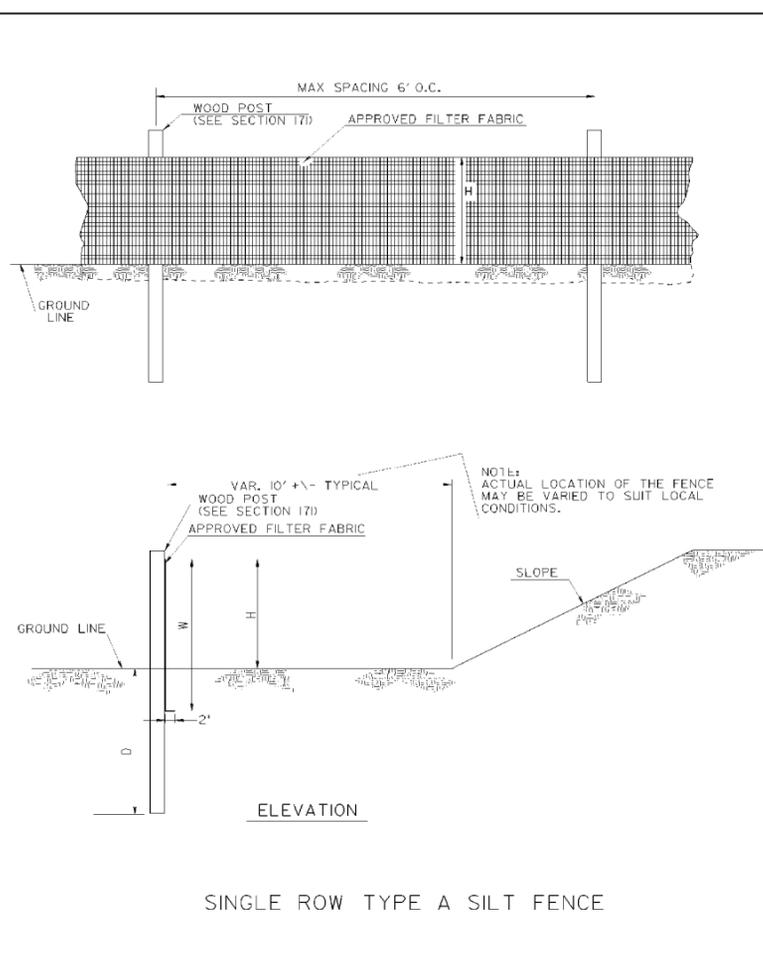
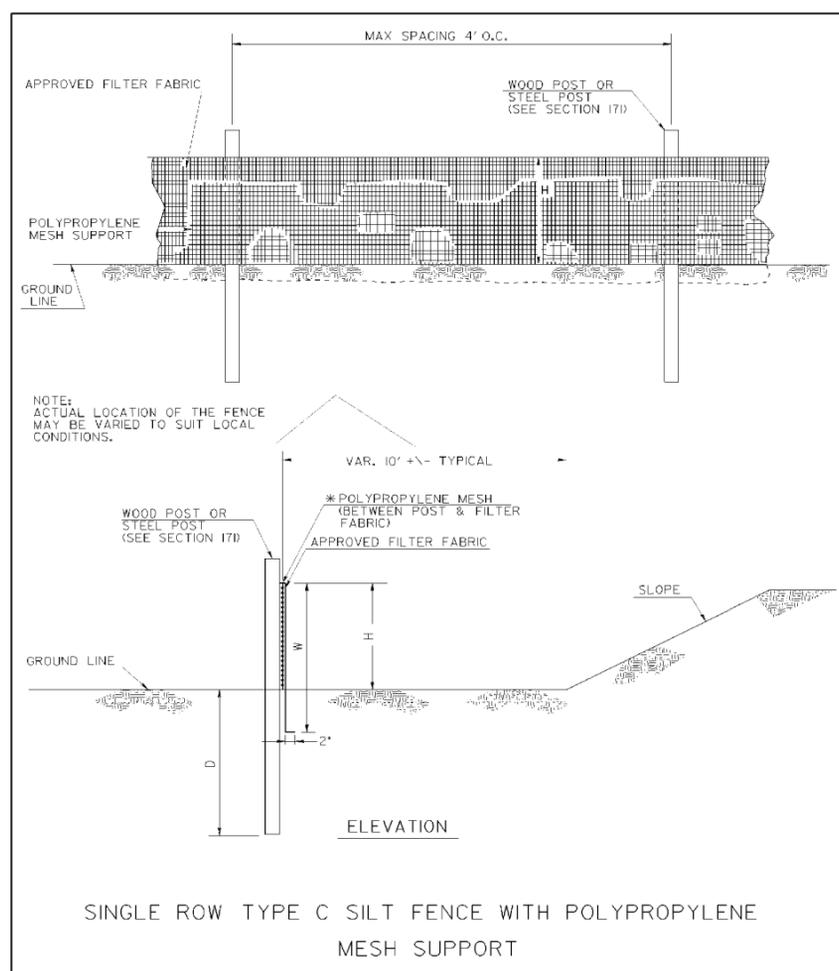


REVISION DATES	

BMP LOCATION DETAILS
PHASE III
 JAMES ROAD
 SIDEWALK IMPROVEMENTS

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FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

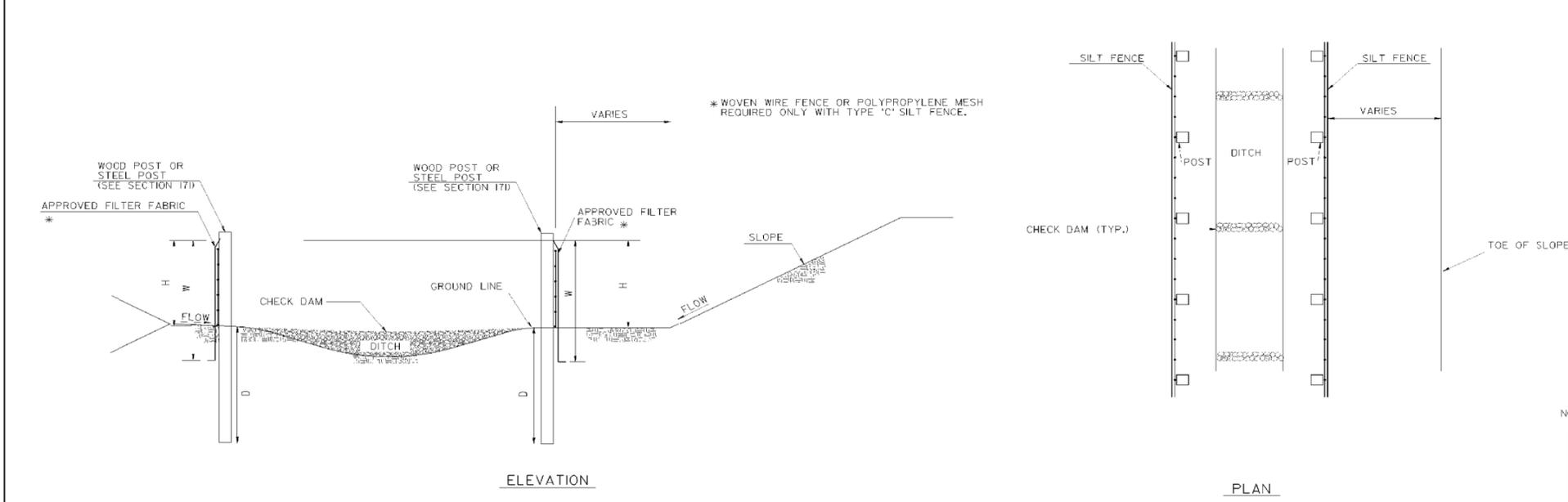
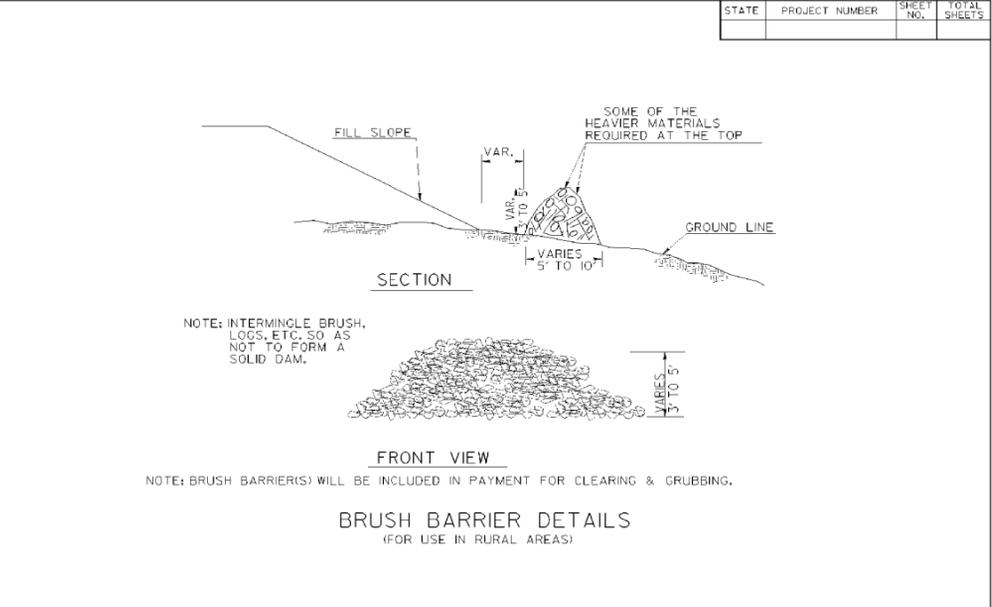
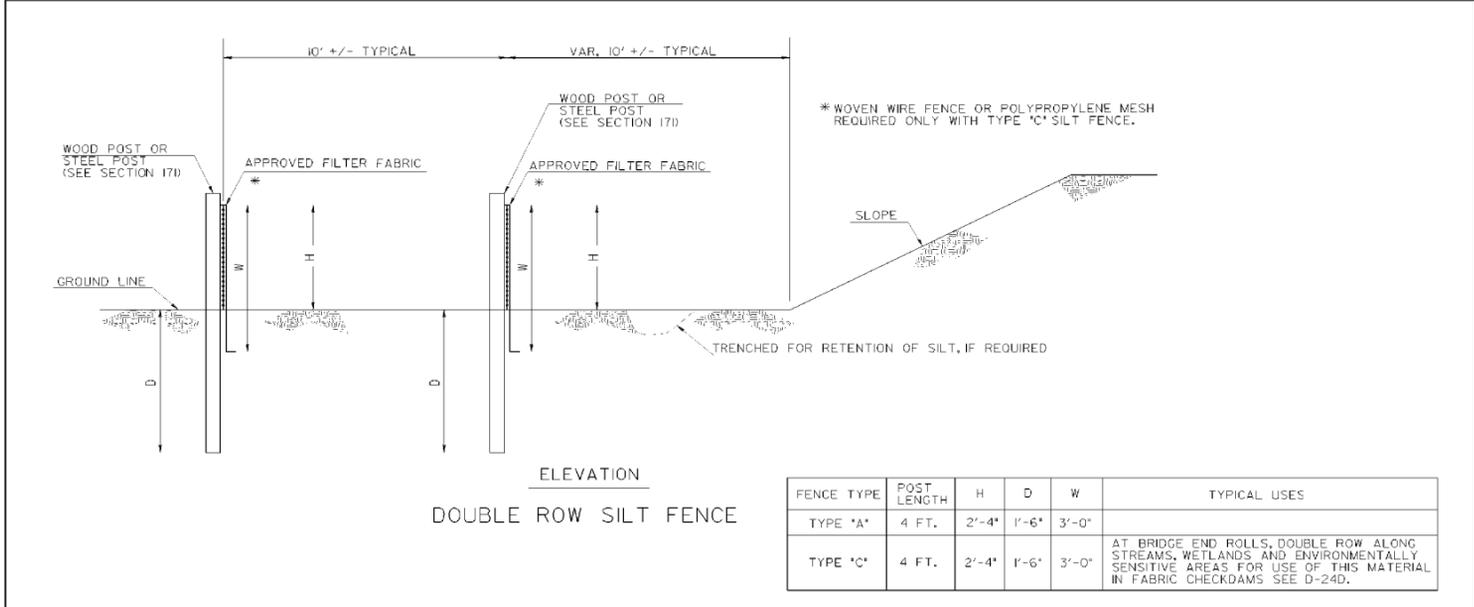
- NOTES:
1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
 2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
 3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
 4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
 5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
 6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
 7. SEE OPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
 8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
CONSTRUCTION DETAILS	
TEMPORARY SILT FENCE	
NO SCALE	REV. AND REDRAWN JAN. 2011
BY:	NUMBER D-24A (SHEET 1 OF 4)

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REVISION DATES		EROSION CONTROL CONSTRUCTION DETAILS													
		<p>JAMES ROAD SIDEWALK IMPROVEMENTS</p> <table border="1"> <tr> <td>CHECKED:</td> <td>DATE:</td> <td>DRAWING No.</td> </tr> <tr> <td>BACKCHECKED:</td> <td>DATE:</td> <td>56-0001</td> </tr> <tr> <td>CORRECTED:</td> <td>DATE:</td> <td></td> </tr> <tr> <td>VERIFIED:</td> <td>DATE:</td> <td></td> </tr> </table>		CHECKED:	DATE:	DRAWING No.	BACKCHECKED:	DATE:	56-0001	CORRECTED:	DATE:		VERIFIED:	DATE:	
CHECKED:	DATE:			DRAWING No.											
BACKCHECKED:	DATE:			56-0001											
CORRECTED:	DATE:														
VERIFIED:	DATE:														

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FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

SILT FENCE PERIMETER INSTALLATION ALONG DITCH SECTION

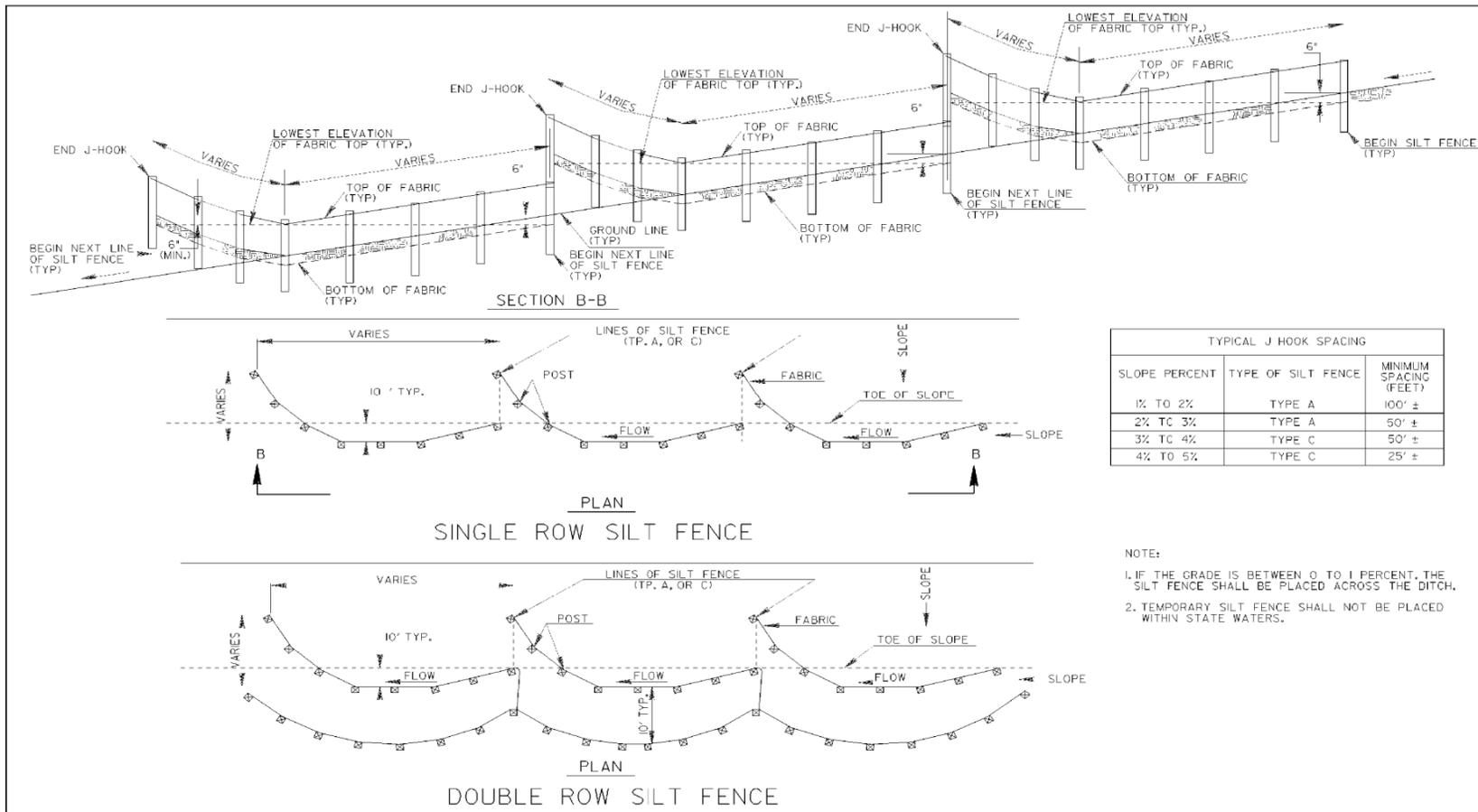
NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
CONSTRUCTION DETAILS TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER
NO SCALE REV. AND REDRAWN JAN. 2011
NUMBER D-24B (SHEET 2 OF 4)

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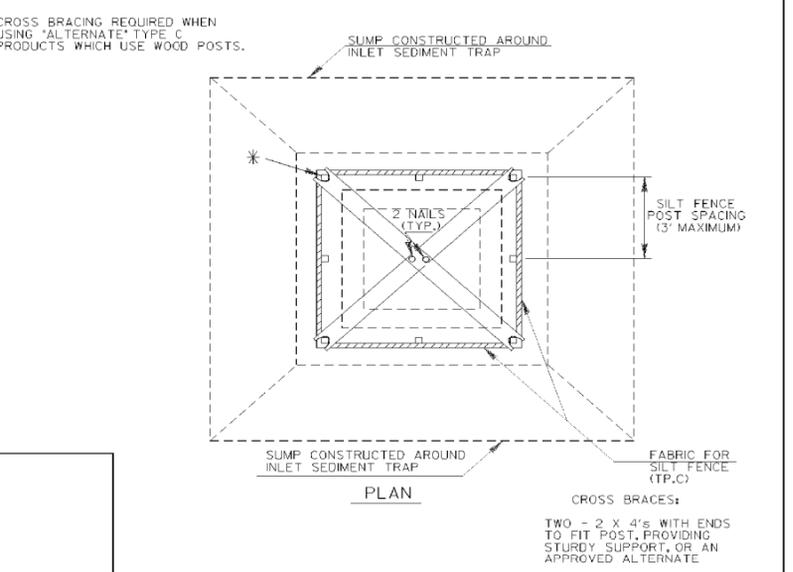
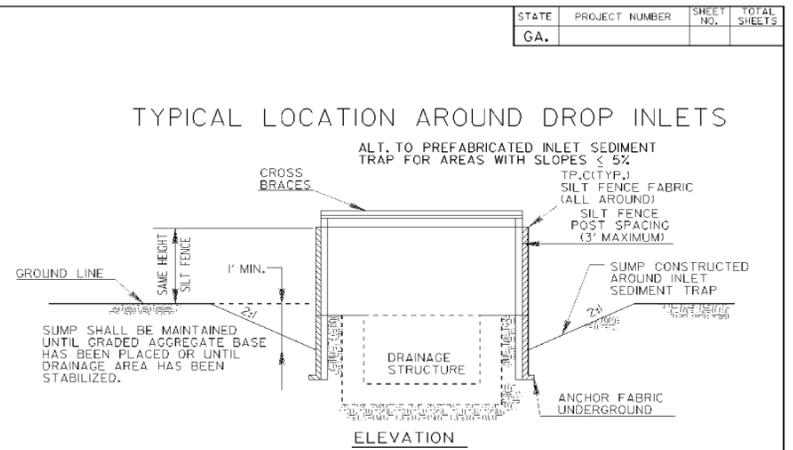
		REVISION DATES		EROSION CONTROL CONSTRUCTION DETAILS	
				JAMES ROAD SIDEWALK IMPROVEMENTS	
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BACKCHECKED:	DATE:	BACKCHECKED:	DATE:	56-0002	
CORRECTED:	DATE:	CORRECTED:	DATE:		
VERIFIED:	DATE:	VERIFIED:	DATE:		

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TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:
 1. IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
 2. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

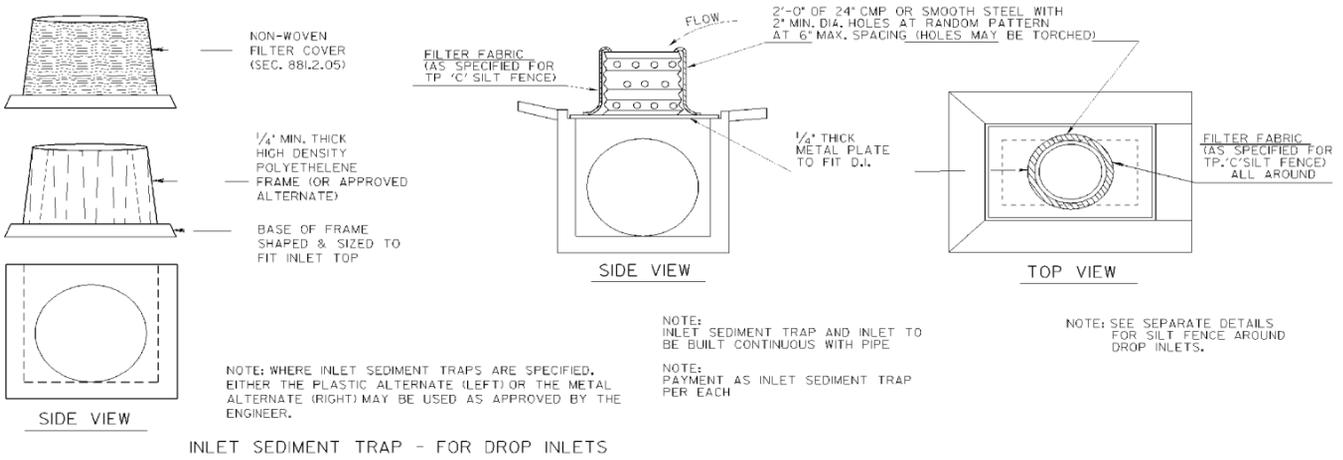


NOTE:
 THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

- EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
- PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
- SLIDE THE FILTER OVER THE FRAME.
- FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
- BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.

NOTE:
 INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.



NOTE:
 PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:
 SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE DETAILS" FOR SILT FENCE ERECTION DETAILS.

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA

CONSTRUCTION DETAILS
 TEMPORARY SILT FENCE
 J-HOOK, INLET SEDIMENT TRAPS

NO SCALE

JANUARY 2011

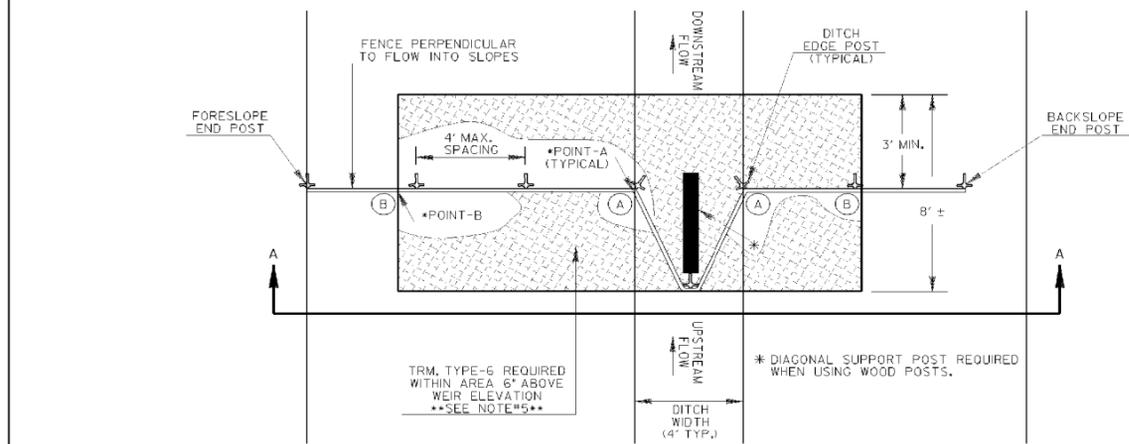
NUMBER
 D-24C
 (SHEET 3 OF 4)

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REVISION DATES		EROSION CONTROL CONSTRUCTION DETAILS		
		JAMES ROAD SIDEWALK IMPROVEMENTS		
CHECKED:	DATE:	CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	BACKCHECKED:	DATE:	56-0003
CORRECTED:	DATE:	CORRECTED:	DATE:	
VERIFIED:	DATE:	VERIFIED:	DATE:	

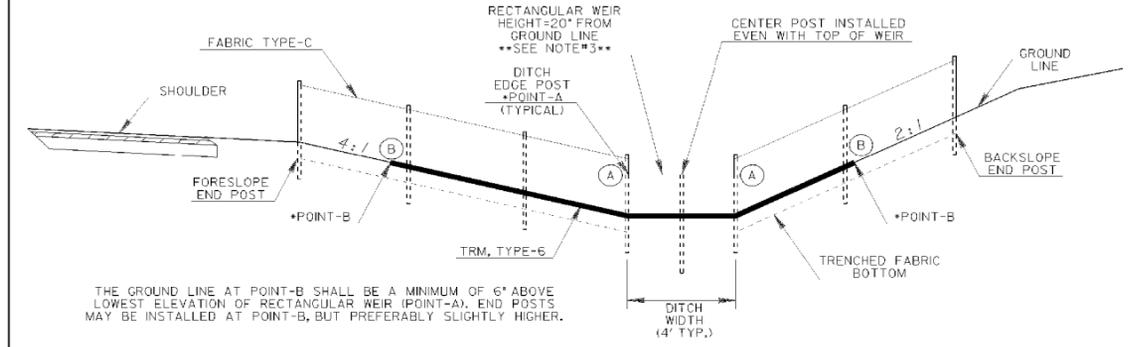
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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN VIEW

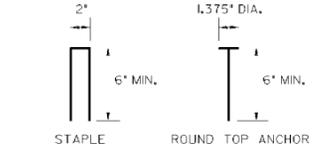
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±



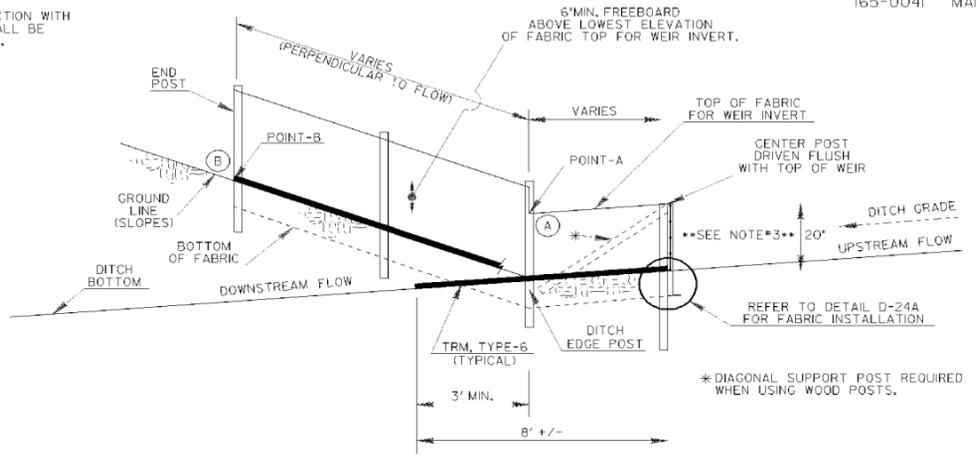
SECTION A-A

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL FABRIC CHECK DAMS SHALL BE INSTALLED SIMILARLY ACCORDING TO ROADWAY CROSS-SECTIONS.

TURF REINFORCEMENT MATTING ANCHOR



NOTE: TURF REINFORCEMENT MATTING SHALL BE ANCHORED WITH 8-GAUGE METAL STAPLES OR ROUND TOP ANCHORS. ANCHORS SHALL BE LONG ENOUGH TO PROVIDE SUFFICIENT GROUND PENETRATION TO RESIST PULL OUT.



NOTES:

- FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.
- FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
- FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. IF DITCH DEPTH IS LESS THAN 26-IN, THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORT. THE WEIR HEIGHT SHALL BE NO LESS THAN 15-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR CONCENTRATED FLOW FOR DITCH DEPTHS LESS THAN 26-IN.
- THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:
 - DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-B WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.
 - CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP-A WITH MINIMAL SOIL DISTURBANCE.
 - LAYOUT TURF REINFORCEMENT MATTING (TRM), TYPE-6 TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A SPLASH PAD TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.
 - INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.
 - PROPERLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.
 - INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST CHECK DAM. INSTALLING UPSTREAM AND DOWNSTREAM TRM ACCORDING TO DETAIL D-35 FOR THIS TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.
- TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

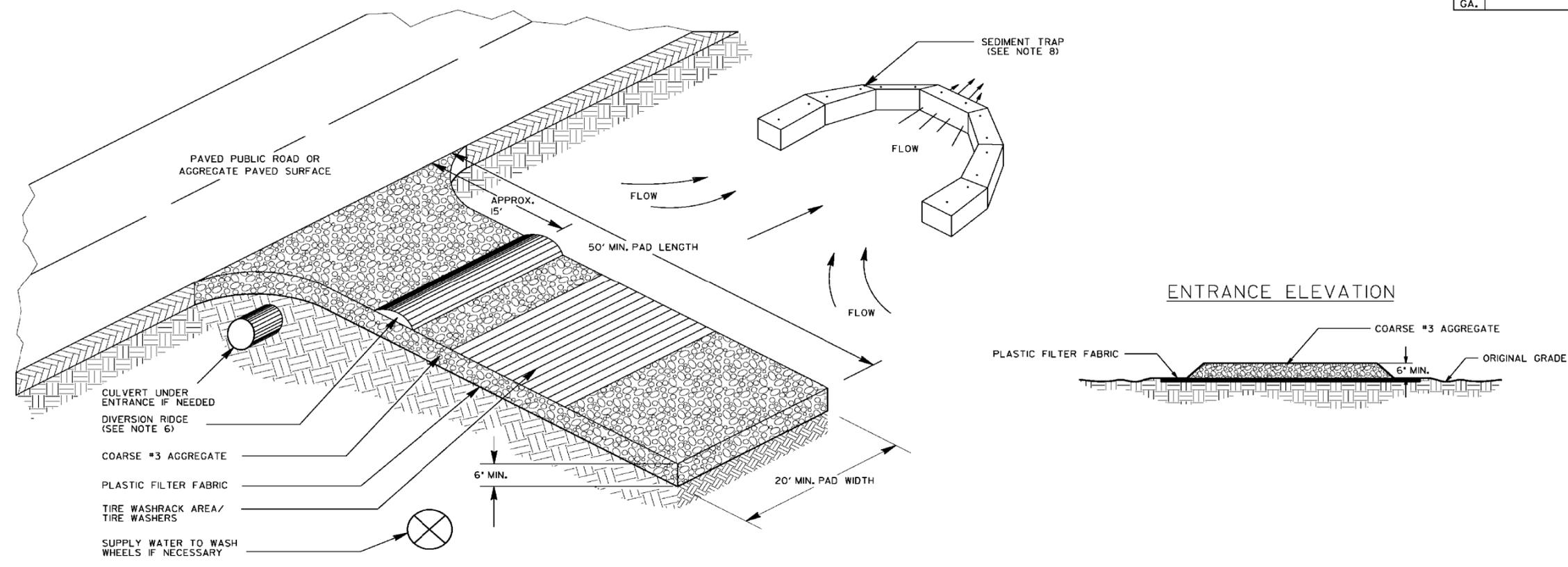
PAY ITEMS:
163-052B CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE FABRIC CHECK DAM	
BY		NO SCALE REV. AND REDRAWN, JULY 2015	
		NUMBER D-24D (SHEET 4 OF 4)	

7/17/2015 11:24:41 AM \\GDD01-DSR1\001\01\000\000.qdt biquaries it\p\l\lay\Lighting\Standards\SA_Details\D-240\New Folder\D-240.prt

REVISION DATES		EROSION CONTROL CONSTRUCTION DETAILS	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	56-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE COARSE #3 AGGREGATE WITH 0.0% PASSING THE 1" U.S. STANDARD SIEVE.
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED 6" TO 8" HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD, THE TIRES SHALL BE WASHED PRIOR TO ENTERING PUBLIC ROADS. THE WASHING SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
11. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

PAY ITEM:
163-0300 CONSTRUCTION EXIT (EA)
165-0101 MAINTENANCE OF CONSTRUCTION EXIT (EA)

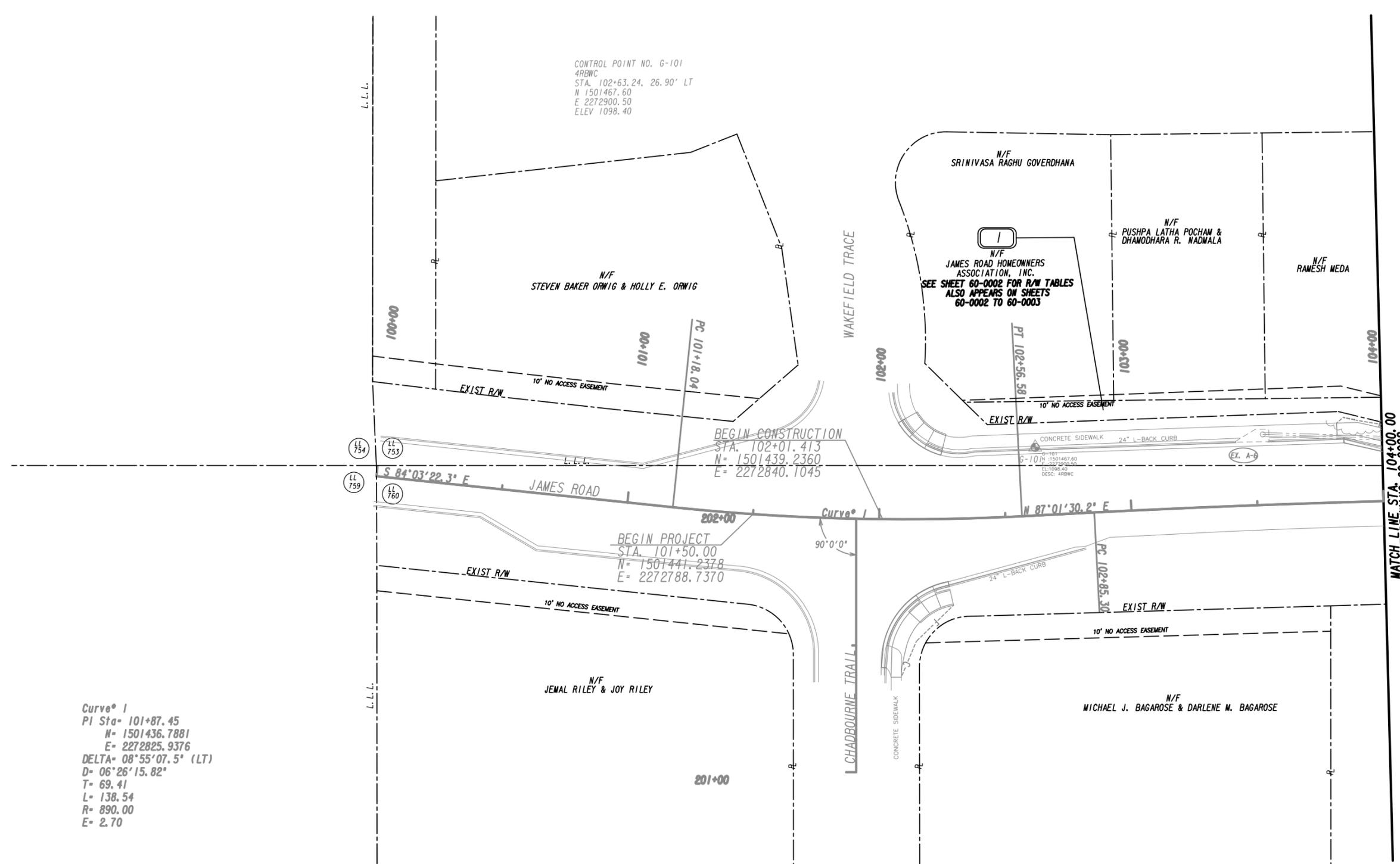
REV. 4-22-2016	MANUAL	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
REV. 01-19-11	CONSTR. EXIT LABELS	REVISION	CONSTRUCTION DETAILS
			CONSTRUCTION EXIT
			NO SCALE
			FEBRUARY 2001
DLE	TPC	BY	DESIGNED DRAWN TRACED CHECKED
			NUMBER D-41

REVISION DATES

EROSION CONTROL CONSTRUCTION DETAILS

JAMES ROAD
SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	56-0005



Curve 1
 PI Sta= 101+87.45
 N= 1501436.7881
 E= 2272825.9376
 DELTA= 08°55'07.5" (LT)
 D= 06°26'15.82"
 T= 69.41
 L= 138.54
 R= 890.00
 E= 2.70

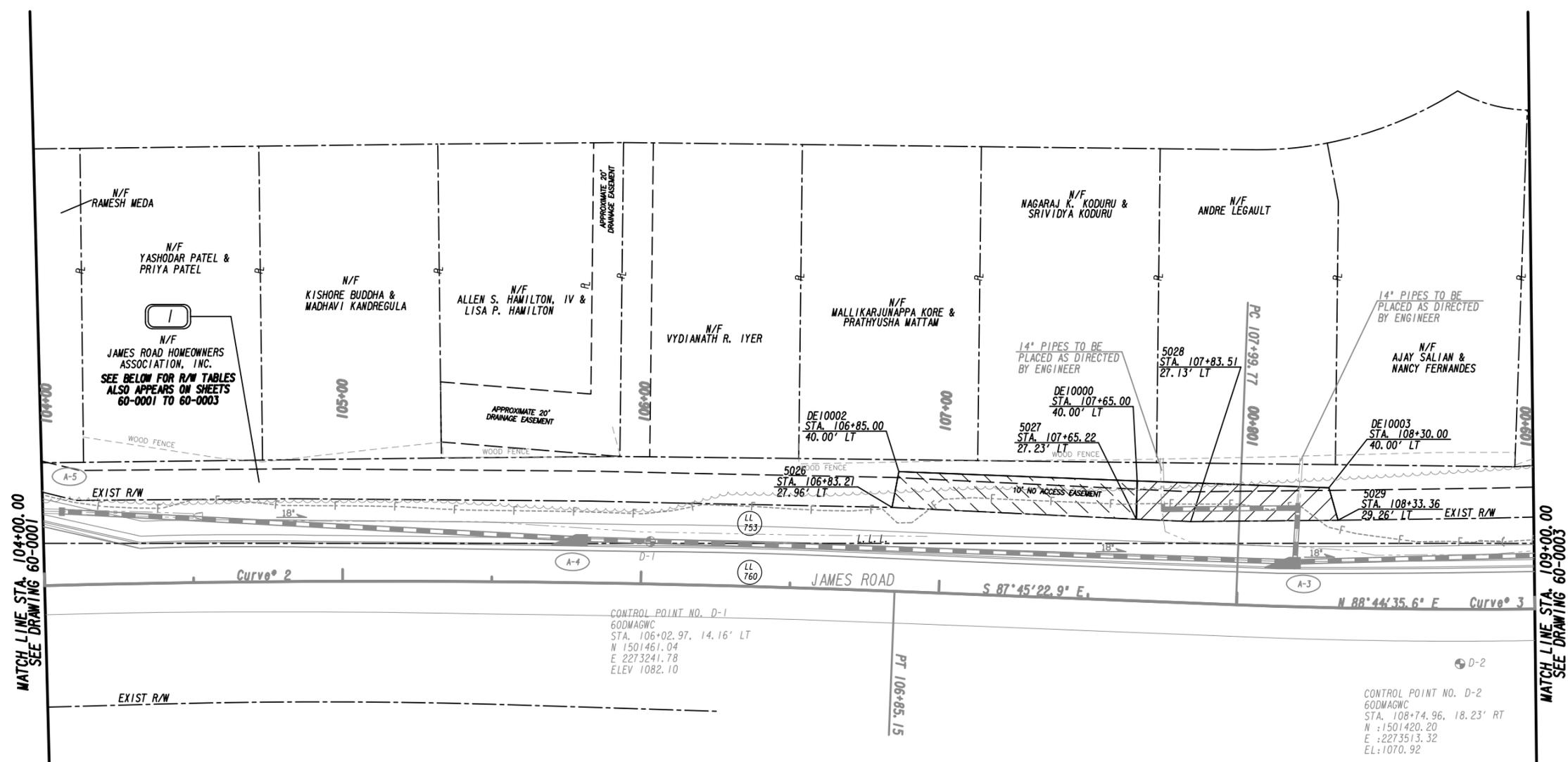
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

RIGHT OF WAY PLAN			
JAMES ROAD SIDEWALK IMPROVEMENTS			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	60-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MATCH LINE STA. 104+00.00
SEE DRAWING 60-0001

MATCH LINE STA. 109+00.00
SEE DRAWING 60-0003

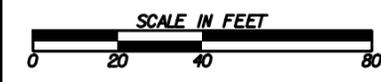
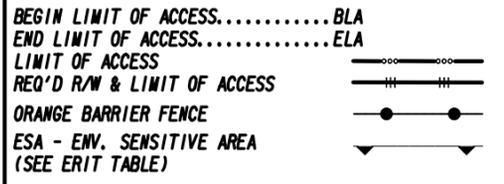
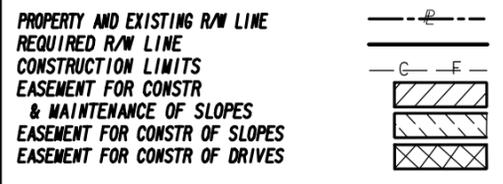
Curve 2	Curve 3
PI Sta= 104+85.36	PI Sta= 109+20.88
N= 1501452.2639	N= 1501435.2030
E= 2273123.7247	E= 2273559.1864
DELTA= 05°13'06.9" (RT)	DELTA= 07°00'03.0" (LT)
D= 01°18'18.51"	D= 02°53'37.41"
T= 200.06	T= 121.12
L= 399.85	L= 241.93
R= 4390.00	R= 1980.00
E= 4.56	E= 3.70

PNT	OFFSET/DIST	STATION/BEARING	ALIGNMENT
5027	27.23 L	107+65.22	JAMES ROAD
DE10000	40.00 L	107+65.00	JAMES ROAD
DE10003	40.00 L	108+30.00	JAMES ROAD
5029	29.26 L	108+33.36	JAMES ROAD
5028	27.13 L	107+83.51	JAMES ROAD
5027	27.23 L	107+65.22	JAMES ROAD
REQD EASMT = 801.18 SF			
REQD EASMT = 0.018 ACRES			

PNT	OFFSET/DIST	STATION/BEARING	ALIGNMENT
5026	27.96 L	106+83.21	JAMES ROAD
DE10002	40.00 L	106+85.00	JAMES ROAD
DE10000	40.00 L	107+65.00	JAMES ROAD
5027	27.23 L	107+65.22	JAMES ROAD
5026	27.96 L	106+83.21	JAMES ROAD
REQD EASMT AREA = 1004.96 SF			

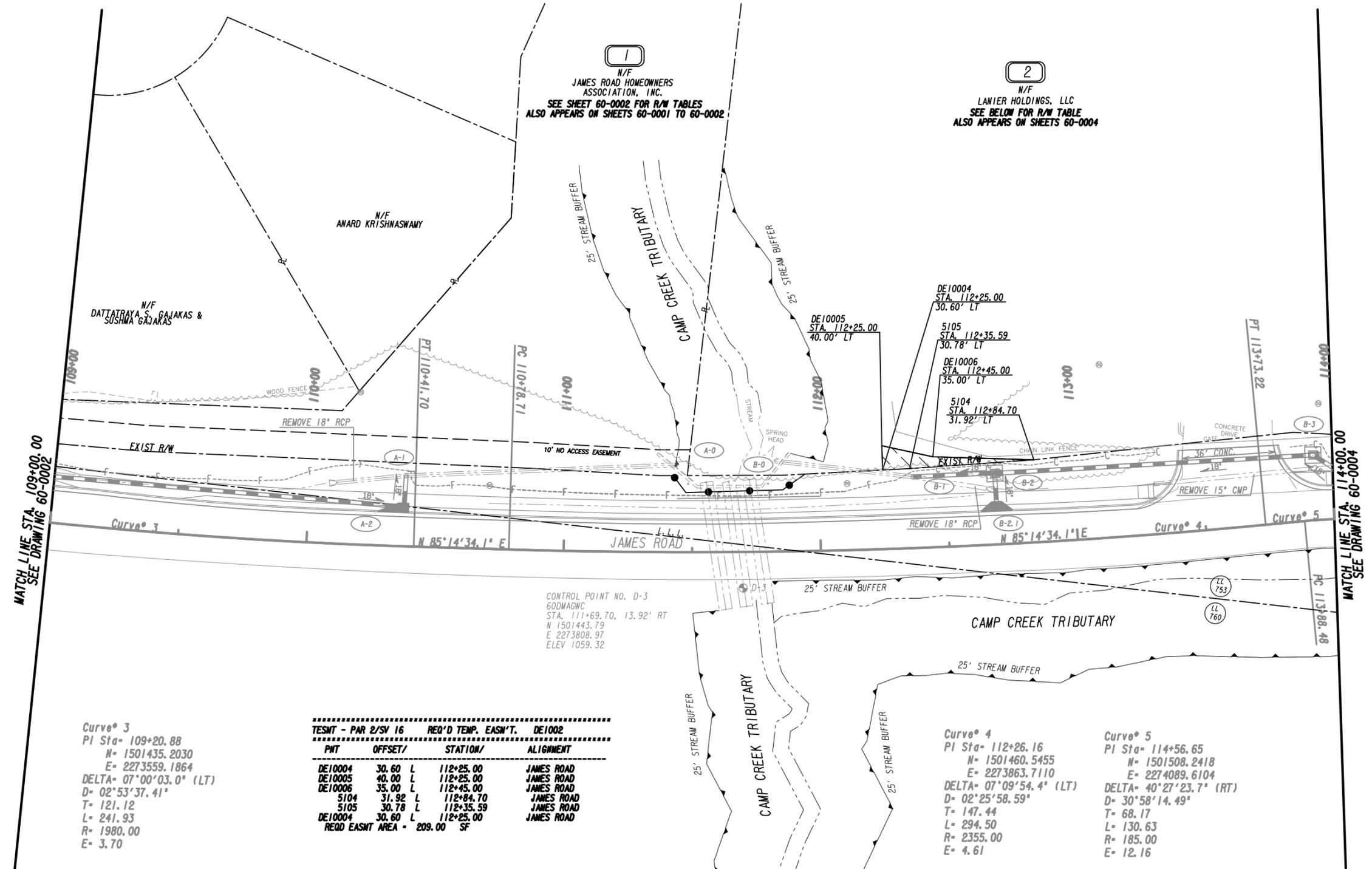
CONTROL POINT NO. D-1
60DMAGWC
STA. 106+02.97, 14.16' LT
N: 1501461.04
E: 2273241.78
ELEV: 1082.10

CONTROL POINT NO. D-2
60DMAGWC
STA. 108+74.96, 18.23' RT
N: 1501420.20
E: 2273513.32
EL: 1070.92



REVISION DATES

RIGHT OF WAY PLAN			
JAMES ROAD SIDEWALK IMPROVEMENTS			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	60-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MATCH LINE STA. 109+00.00
SEE DRAWING 60-0002

MATCH LINE STA. 114+00.00
SEE DRAWING 60-0004

Curve 3
PI Sta= 109+20.88
N= 1501435.2030
E= 2273559.1864
DELTA= 07°00'03.0" (LT)
D= 02°53'37.41"
T= 121.12
L= 241.93
R= 1980.00
E= 3.70

PNT	OFFSET/	STATION/	ALIGNMENT
DE10004	30.60 L	112+25.00	JAMES ROAD
DE10005	40.00 L	112+25.00	JAMES ROAD
DE10006	35.00 L	112+45.00	JAMES ROAD
5104	31.92 L	112+84.70	JAMES ROAD
5105	30.78 L	112+35.59	JAMES ROAD
DE10004	30.60 L	112+25.00	JAMES ROAD

REQ'D EASMT AREA = 209.00 SF

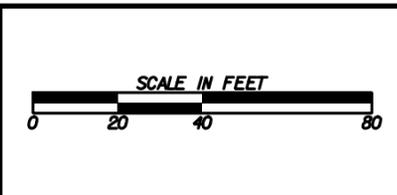
Curve 4
PI Sta= 112+26.16
N= 1501460.5455
E= 2273863.7110
DELTA= 07°09'54.4" (LT)
D= 02°25'58.59"
T= 147.44
L= 294.50
R= 2355.00
E= 4.61

Curve 5
PI Sta= 114+56.65
N= 1501508.2418
E= 2274089.6104
DELTA= 40°27'23.7" (RT)
D= 30°58'14.49"
T= 68.17
L= 130.63
R= 185.00
E= 12.16

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

WOLVERTON
Engineering Solutions You Can Trust
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REVISION DATES	

RIGHT OF WAY PLAN

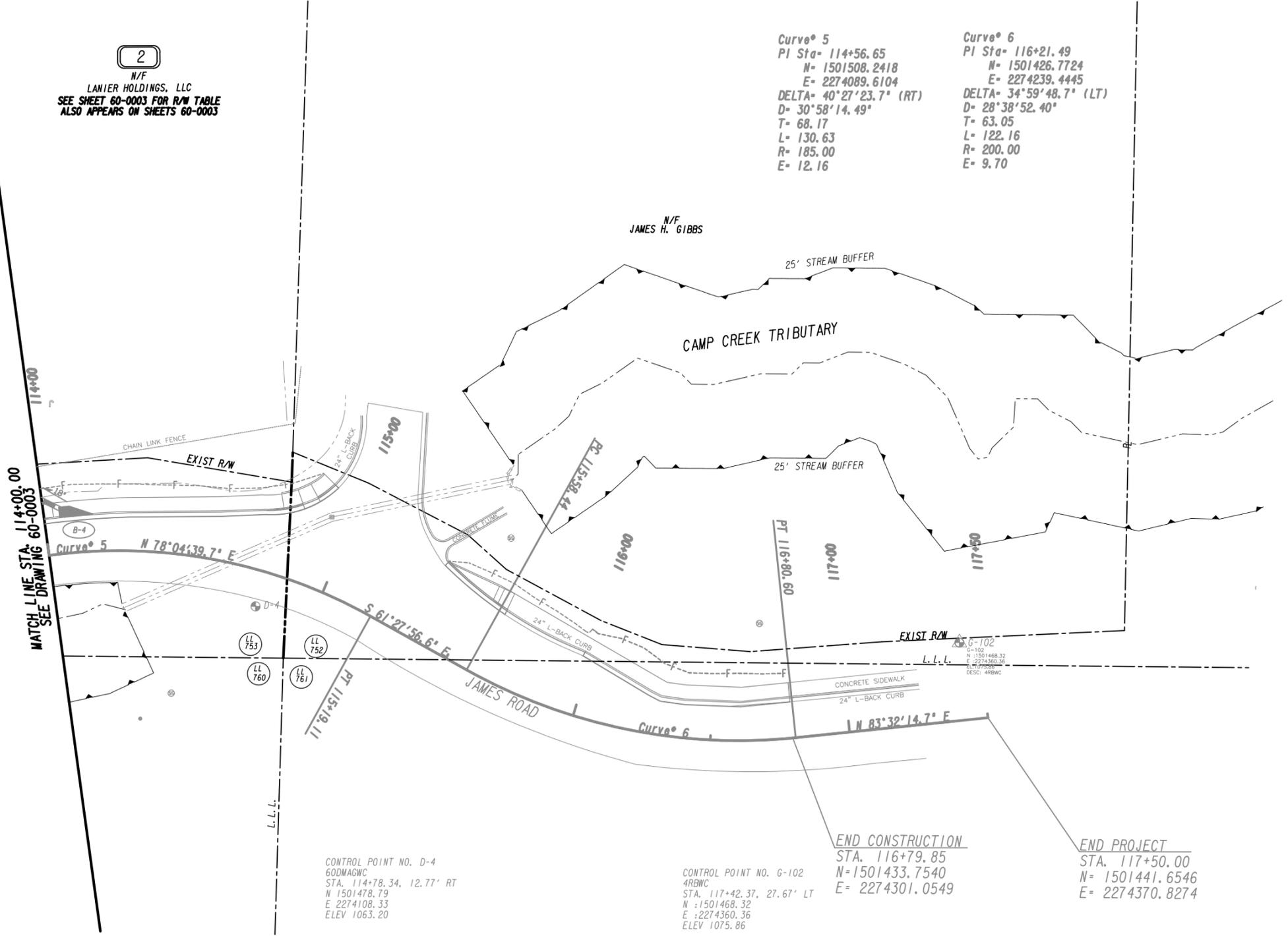
JAMES ROAD
SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	60-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

2
N/F
LANIER HOLDINGS, LLC
SEE SHEET 60-0003 FOR R/W TABLE
ALSO APPEARS ON SHEETS 60-0003

Curve 5
PI Sta- 114+56.65
N= 1501508.2418
E= 2274089.6104
DELTA- 40°27'23.7" (RT)
D= 30°58'14.49"
T= 68.17
L= 130.63
R= 185.00
E= 12.16

Curve 6
PI Sta- 116+21.49
N= 1501426.7724
E= 2274239.4445
DELTA- 34°59'48.7" (LT)
D= 28°38'52.40"
T= 63.05
L= 122.16
R= 200.00
E= 9.70



CONTROL POINT NO. D-4
60DMAGWC
STA. 114+78.34, 12.77' RT
N 1501478.79
E 2274108.33
ELEV 1063.20

CONTROL POINT NO. G-102
4RBWC
STA. 117+42.37, 27.67' LT
N : 1501468.32
E : 2274360.36
ELEV 1075.86

END CONSTRUCTION
STA. 116+79.85
N=1501433.7540
E= 2274301.0549

END PROJECT
STA. 117+50.00
N= 1501441.6546
E= 2274370.8274

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



REVISION DATES	

RIGHT OF WAY PLAN			
JAMES ROAD SIDEWALK IMPROVEMENTS			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	60-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		