







		COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
		JACKSON			

GENERAL NOTES:

1. THE CONTRACTOR SHALL ADHERE TO THE "CALL BEFORE YOU DIG" LAW BY CALLING 811 BEFORE BEGINNING CONSTRUCTION.
2. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED IN KIND. I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COURSE FOR DIRT DRIVES. DRIVEWAY LOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA. THE CONTRACTOR SHALL CONSTRUCT NEW DRIVEWAYS TO MATCH THE ACTUAL FIELD LOCATION OF EXISTING DRIVES 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 SHOWN OTHERWISE ON 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: ASPH CONCRETE 12.5mm SUPERPAVE (165LB/ SY)  
6" GRADED AGGREGATE BASE
  - CONCRETE: RESIDENTIAL DRIVEWAY, 6" THICK
  - CONCRETE: COMMERCIAL DRIVEWAY, 8" THICK
3. THE CONTRACTOR SHALL REMOVE ALL EXISTING DRAINAGE STRUCTURES AND PIPES IN CONFLICT WITH PROPOSED CONSTRUCTION. THE REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.
4. ALL PROPOSED STORM DRAIN PIPES SHALL BE AS NOTED ON THE PLANS.

GENERAL NOTES FOR SIGNING AND PAVEMENT MARKING

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 PROVISION.
2. SIGN ERECTION LOCATIONS 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. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT THE 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 SECTION SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
5. TYPE III (HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
6. TYPE VI (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3A, R1-4A, R5-1), WARNING SIGNS AND OVERHEAD SIGNS.
7. RAISED PAVEMENT MARKERS (RPM'S) SHALL BE INSTALLED PER GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD DETAILS.
8. ALL PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.

UTILITY OWNER	SERVICE	CONTACT NUMBERS
JACKSON EMC	ELECTRICITY	706-367-5281
GA POWER	ELECTRICITY	888-660-5890
TOWN OF BRASELTON	WATER AND SEWER	706-654-5552
ATLANTA GAS LIGHT	GAS	706-425-8430
WINDSTREAM	TELEPHONE	706-267-6102

NOTES:

UTILITY DISCLAIMER: EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM THE CONTRACTORS/INSTALLERS NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTORS/INSTALLERS EXPENSE.

EXISTING POLE ATTACHMENT DATA IS APPROXIMATE AND IS PROVIDED AS A GENERAL GUIDELINE TO THE CONTRACTOR/INSTALLER TO AID IN IDENTIFYING POTENTIAL INSTALLATION CONFLICTS. THE CONTRACTOR/INSTALLER SHALL PROVIDE APPROPRIATE CLEARANCES FROM UTILITIES.

PROJECT GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION.
2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS, AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION.
3. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GEORGIA STANDARD SPECIFICATIONS.
4. RIGHT-OF-WAY MARKERS IN RESIDENTIAL LAWN AND DEVELOPED COMMERCIAL AREAS SHALL BE PLACED FLUSH WITH THE FINISHED SURFACE.
5. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL.
6. PERFORATED UNDERDRAIN SHALL BE PLACED IN AREAS WHERE WET CONDITIONS EXIST IN THE SUBGRADE AS DIRECTED BY THE ENGINEER.
7. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
8. IN AREAS WHERE NEW PAVEMENT OR PAVEMENT WIDENING IS REQUIRED, SAW CUT OF EXISTING PAVEMENT WILL BE REQUIRED IN ACCORDANCE WITH SECTION 411 OF THE GEORGIA STANDARD SPECIFICATIONS AND WILL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".
9. ALL DRIVEWAYS SHALL BE MAINTAINED DURING CONSTRUCTION. ALL DRIVEWAYS TO BE CONSTRUCTED SHALL BE REPLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE ETC.. ANY OTHER DRIVEWAY MATERIAL OR SPECIALIZED DRIVEWAY WILL NOT BE REPLACED IN KIND (I.E.) PAYERS WILL BE REPLACED WITH ASPHALT OR CONCRETE. ALL EARTH OR GRAVEL DRIVES SHALL BE PAVED WITH ASPHALT TO THE RIGHT-OF-WAY LIMIT OR THE-IN POINT. DRIVEWAYS SHALL BE PAVED AS FOLLOWS:  
COMMERCIAL - 8" CONCRETE VALLEY GUTTER  
DRIVES - 6" GRADED AGGREGATE BASE
10. PRICE BID FOR TRAFFIC CONTROL SHALL INCLUDE, BUT IS NOT LIMITED TO CONSTRUCTION, MAINTENANCE, AND REMOVAL OF TEMPORARY SIGNAGE, PAVEMENT MARKINGS, BARRICADES, ETC. REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, OR AS DIRECTED BY THE ENGINEER.
11. NO SEPARATE PAYMENT WILL BE MADE FOR PAVEMENT, GRADING OR ANY OTHER OPERATIONS REQUIRED FOR DETOUR CONSTRUCTION AND SHALL BE INCLUDED IN PRICE BID FOR "TRAFFIC CONTROL".
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING, RELOCATING, AND MAINTAINING THE PROPERTY OWNER'S MAILBOX TO AN AREA OUTSIDE CONSTRUCTION LIMITS DURING THE LIFE OF THE CONTRACT. THE LOCATION OF THE BOX SHOULD BE CONVENIENT TO BOTH THE MAIL CARRIER AND THE PATRON, YET NOT INTERFERE WITH PROPOSED WORK. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONFER WITH THE POST OFFICE SERVING THE AREA. ALL COSTS INCURRED FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
13. AN N.O.I. (NOTICE OF INTENT) IS REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS 1.5 ACRES.
14. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED ACROSS A PAVED AREA, A JOINT SHALL BE SAVED ON A LINE ESTABLISHED BY THE ENGINEER TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE. THE COST FOR SAWED JOINTS, WHEN REQUIRED, SHALL BE INCLUDED IN PRICE BID FOR OTHER CONTRACT ITEMS, EXCEPT WHEN SAWING IN CONCRETE PAVEMENT.
15. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED, SUFFICIENT TO RETARD SUBJECTED TO DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.
16. TYPE OF GRASS OR SOD USED ON THIS PROJECT WILL BE REQUIRED TO MATCH ANY TYPE OF GRASS OR SOD WHICH MAY BE PLANTED OR GROWING ON ADJACENT LAWNS, I.E. BERMUDA SOD FOR BERMUDA SOD, ZOYSIA FOR ZOYSIA, ETC.. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
17. AGGREGATE SURFACE COURSE FOR TEMPORARY DRIVEWAYS, INCLUDING MATERIAL HAUL, PLACEMENT AND REMOVAL, SHALL BE USED AT THE ENGINEER'S DISCRETION TO FACILITATE THE MOVEMENT OF LOCAL TRAFFIC THROUGH THE CONSTRUCTION AREA DURING INCLEMENT WEATHER. WHEN USED FOR THIS PURPOSE, SECTION 518 IS FURTHER MODIFIED TO PERMIT THE USE OF CRUSHER RUN STONE AS DESCRIBED IN SECTION 518.2. THE CONTRACTOR WILL HAVE THE USE OF THE FOLLOWING MATERIALS:  
A. GRADED AGGREGATE, SECTION 815-2-01.  
B. COARSE AGGREGATE, SIZE 467 SECTION 800-2-01.  
C. STABILIZED AGGREGATE, TYPE I OR II, SECTION 803.  
D. CRUSHED STONE, SECTION 806.2.
18. EACH CONTRACTOR WORKING ON THE PROJECT SHALL CONDUCT HIS WORK SO AS NOT TO INTERFERE WITH OR HINDER THE PROGRESS OR COMPLETION OF WORK BEING PERFORMED BY OTHER CONTRACTORS.

REVISION DATES	Town of Braselton
	OFFICE:

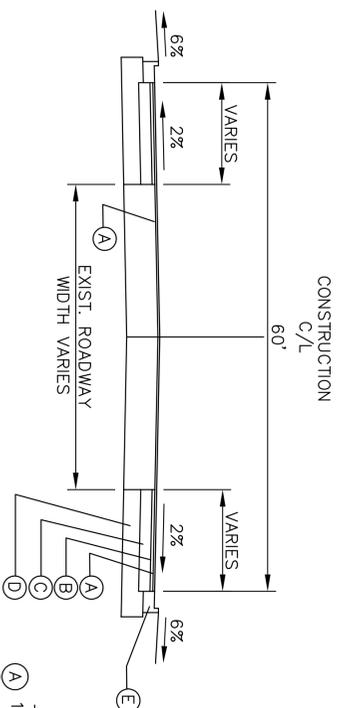
GENERAL NOTES

SR 53 WIDENING

DRAWING No.  
4-01

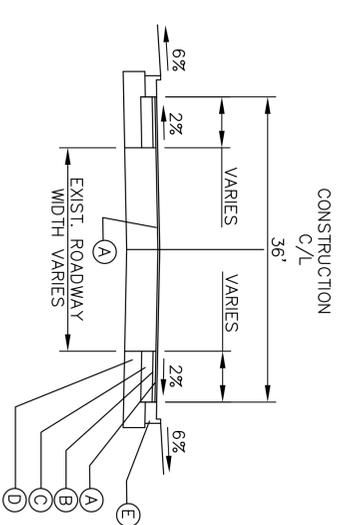
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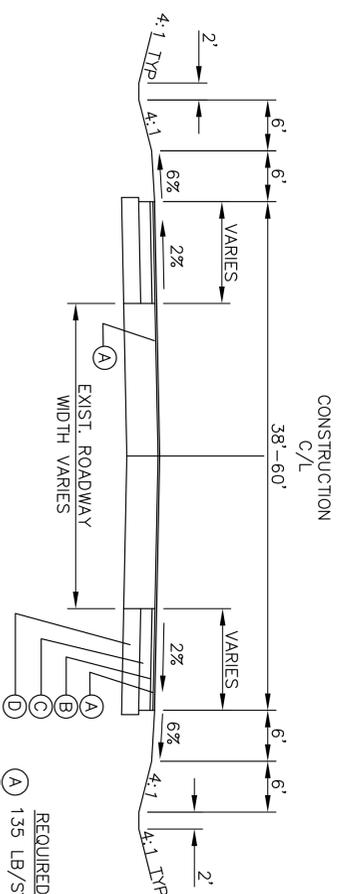
TYPICAL SECTION  
SR 53  
URBAN WIDENING

- REQUIRED PAVEMENT
- (A) 135 LB/SY RECYCLED ASPHALT CONCRETE 9.5 mm SUPERPAVE
  - (B) 220 LB/SY RECYCLED ASPHALT CONCRETE 19 mm SUPERPAVE
  - (C) 880 LB/SY RECYCLED ASPHALT CONCRETE 25 mm SUPERPAVE
  - (D) 12" GRADED AGGREGATE BASE
  - (E) 8" X 30" CONC. CURB & GUTTER, TYPE 2



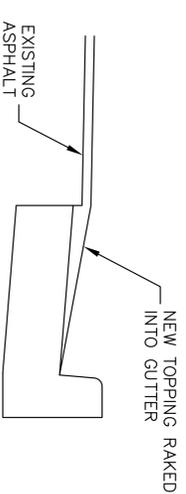
TYPICAL SECTION  
CHARDONWAY TRACE  
URBAN WIDENING

- REQUIRED PAVEMENT
- (A) 135 LB/SY RECYCLED ASPHALT CONCRETE 9.5 mm SUPERPAVE
  - (B) 220 LB/SY RECYCLED ASPHALT CONCRETE 19 mm SUPERPAVE
  - (C) 880 LB/SY RECYCLED ASPHALT CONCRETE 25 mm SUPERPAVE
  - (D) 12" GRADED AGGREGATE BASE
  - (E) 6" X 24" CONC. CURB & GUTTER, TYPE 2



TYPICAL SECTION  
SR 53  
RURAL WIDENING

- REQUIRED PAVEMENT
- (A) 135 LB/SY RECYCLED ASPHALT CONCRETE 9.5 mm SUPERPAVE
  - (B) 220 LB/SY RECYCLED ASPHALT CONCRETE 19 mm SUPERPAVE
  - (C) 880 LB/SY RECYCLED ASPHALT CONCRETE 25 mm SUPERPAVE
  - (D) 12" GRADED AGGREGATE BASE



TYPICAL SECTION  
CURB & GUTTER  
OVERLAY

REVISION DATES

Town of Broselton

OFFICE:

TYPICAL SECTIONS

SR 53 WIDENING

DRAWING No.  
5-01



NOT TO SCALE

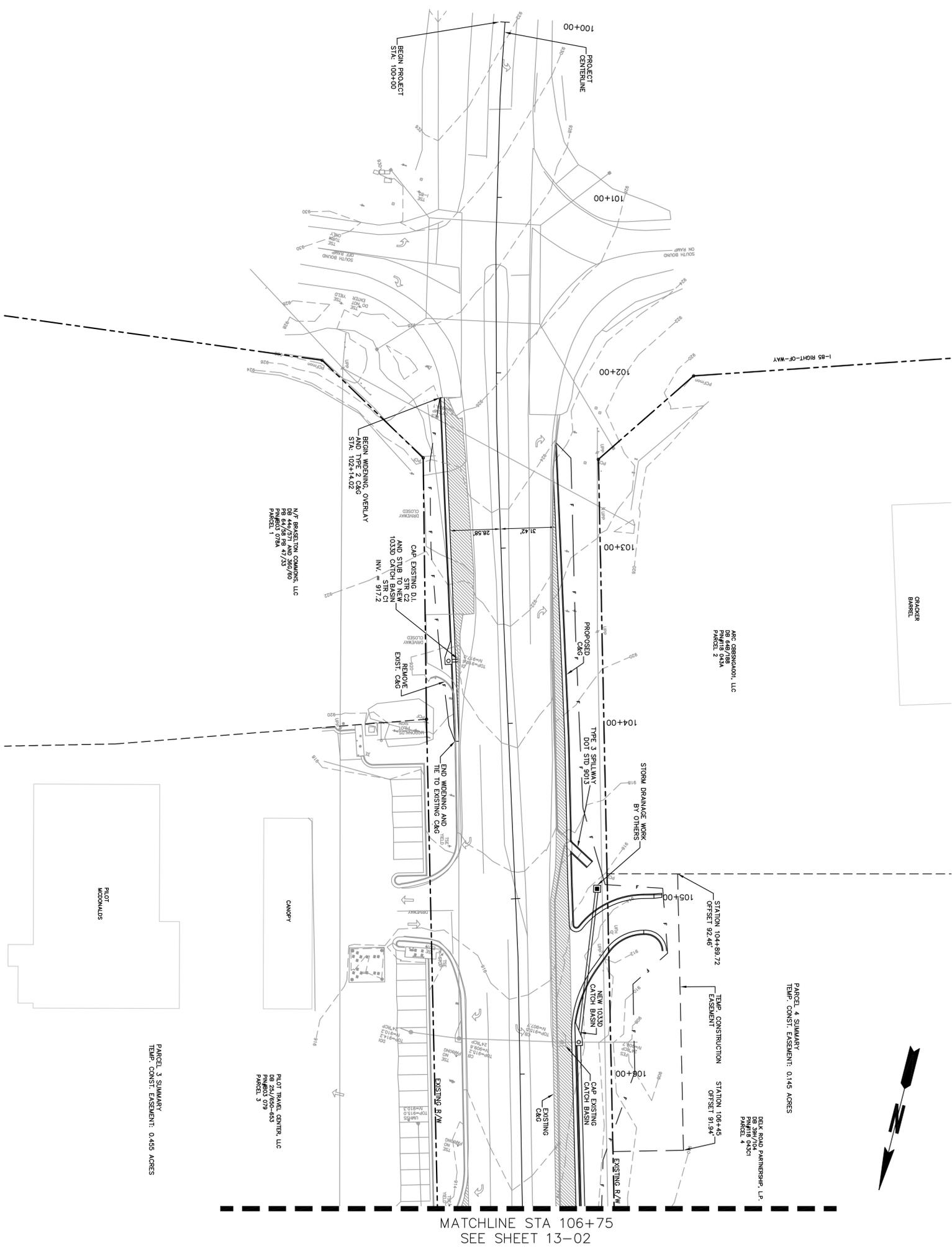
**DETAILED ESTIMATE**  
**PROJECT NUMBER: SR 53 WIDENING**

Item Number	Description	Unit	Quantity	Unit Price	Amount
<b>ROADWAY</b>					
160-1000	TRAFFIC CONTROL -	LS	1		
210-0100	GRADING COMPLETE	LS	1		
310-1101	GR AGGR BASE CRS. INCL. MATL	TN	3190		
318-9000	AGGR SURF CRS	TN	100		
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM. MATL & H LIME	TN	100		
402-2121	RECYCLED ASPH CONC 2.5 MM SUPERPAVE GP 1 OR 2, INCL BITUM. MATL & H LIME	TN	1833		
402-2130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE GP 2 ONLY, INCL BITUM. MATL & H LIME	TN	1942		
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE GP 1 OR 2, INCL BITUM. MATL & H LIME	TN	417		
413-1000	BITUM. TACK COAT	GL	2000		
441-0003	CONC SPILLWAY, TP 1	EA	1		
441-8240	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	2836		
500-2020	CLASS B CONC BASE OR PLANT WIDENING	CV	110		
550-1180	STORM DRAIN PIPE, 18 IN, H 1 - 10	LF	460		
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	30		
550-4118	FLARED END SECTION, 18 IN, SIDE DRAIN	EA	2		
550-4218	FLARED END SECTION, 18 IN, STORM DRAIN	EA	1		
634-1200	RIGHT OF WAY MARKERS	EA	134		
668-1100	CATCH BASIN, GP 1	EA	4		
668-2100	DROP INLET, GP 1	EA	2		
668-5000	JUNCTION BOX	EA	1		
668-7018	YARD DRAIN INLET	EA	1		
<b>PERMANENT EROSION CONTROL</b>					
602-2181	STN DUMPED RIP RAP, TP 3, 18 IN	SY	40		
603-7000	PLASTIC FILTER FABRIC	SY	40		
700-0910	PERMANENT GRASSING	AC	1.88		
700-7000	AGRICULTURAL LIME	TN	4		
700-8000	FERTILIZER MIXED GRADE	TN	1.5		
<b>TEMPORARY EROSION CONTROL</b>					
163-0222	TEMPORARY GRASSING	AC	1.88		
163-0240	MULCH	TN	10		
163-0300	CONSTRUCTION EXT	EA	1		
163-0527	CONSTRUCT AND REMOVE RIP RAP CHECK DAMS	EA	8		
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	7		
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TYPE C	LF	4171		
165-0080	MAINTENANCE OF TEMPORARY SEDIMENT BASIN	EA	1		
165-0101	MAINTENANCE OF CONSTRUCTION EXT	EA	1		
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	7		

Item Number	Description	Unit	Quantity	Unit Price	Amount
167-1000	WATER QUALITY MONITORING & SAMPLING	EA	3		
167-1500	WATER QUALITY INSPECTIONS	MO	6		
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	4171		
<b>SIGNING AND MARKING</b>					
610-6515	REM HIGHWAY SIGN, STD	EA	4		
611-5360	RESET HIGHWAY SIGN	EA	10		
636-1033	HIGHWAY SIGNS, TP 1 MATERIAL, REFL SHEETING TP 9	EA	47		
636-2070	GALV STEEL POSTS, TP 7	LF	107		
633-0120	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	EA	27		
633-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	7704		
633-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	7252		
633-1704	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	LF	184		
633-3501	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	3640		
633-3501	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	GLF	2157		
633-3501	THERMOPLASTIC MINI SKIP TRAF STRIPE, 5 IN, WHITE	GLF	488		
633-3502	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	GLF	1414		
633-6004	THERMOPLASTIC TRAFIC STRIPING, WHITE	SY	287		
633-6006	THERMOPLASTIC TRAFIC STRIPING, YELLOW	SY	368		
634-1001	RAISED PAVEMENT MARKERS TP 1	EA	87		
634-1003	RAISED PAVEMENT MARKERS TP 3	EA	110		
<b>TRAFFIC SIGNALS</b>					
615-1200	5" DIRECTIONAL BORE	LF	690		
639-3004	STEEL STRAIN POLE, TP IV, W/ 45' MAST ARM	EA	2		
639-3004	STEEL STRAIN POLE, TP IV, W/ 60' MAST ARM	EA	3		
639-3004	STEEL STRAIN POLE, TP IV, W/ 66' MAST ARM	EA	1		
639-3004	STEEL STRAIN POLE, TP IV, W/ 66' MAST ARM & 80' MAST ARM	EA	1		
642-1000	TRAFFIC SIGNAL INSTALLATION NO. 1 - SR 53@BRASELTON PARKWAY	LS	1		
647-1000	TRAFFIC SIGNAL INSTALLATION NO. 2 - SR 53@CHARDONNAY TRACE	LS	1		

 <p>PO BOX 878 BRASELTON, TN 37020 BUSINESS 706-824-0517 FAX 706-824-0519</p>	REVISION DATES <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> </table>											Town of Braselton OFFICE: DETAILED ESTIMATE	SR 53 WIDENING	DRAWING No. <b>9-01</b>

gmu



MATCHLINE STA 106+75  
SEE SHEET 13-02

	<p>PO BOX 878 BRASELTON, GA 30917 BUSINESS: 706-824-0514 FAX: 706-824-0519</p>	<p>SCALE IN FEET</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">REVISION DATES</th> <th style="width: 50%;">Town of Braselton</th> </tr> </thead> <tbody> <tr> <td> </td> <td>OFFICE: MAINLINE PLAN</td> </tr> <tr> <td> </td> <td>SR 53 WIDENING</td> </tr> </tbody> </table>	REVISION DATES	Town of Braselton		OFFICE: MAINLINE PLAN		SR 53 WIDENING
REVISION DATES	Town of Braselton								
	OFFICE: MAINLINE PLAN								
	SR 53 WIDENING								
<p>DRIVING NO. <b>13-01</b></p>									

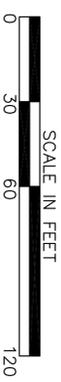
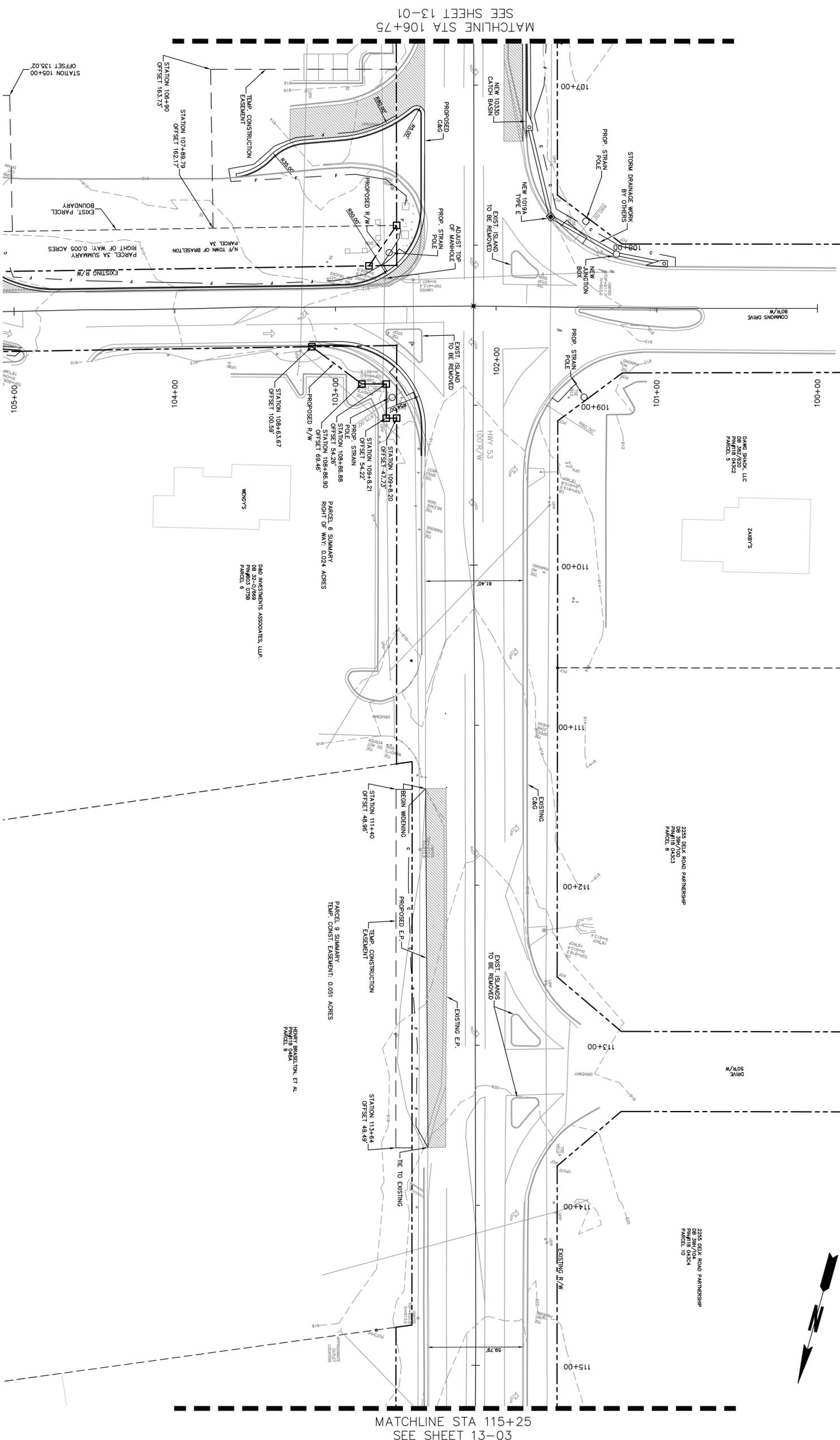
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COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



**BW&K**  
CONSTRUCTION & ENGINEERING

PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519

REVISION DATES

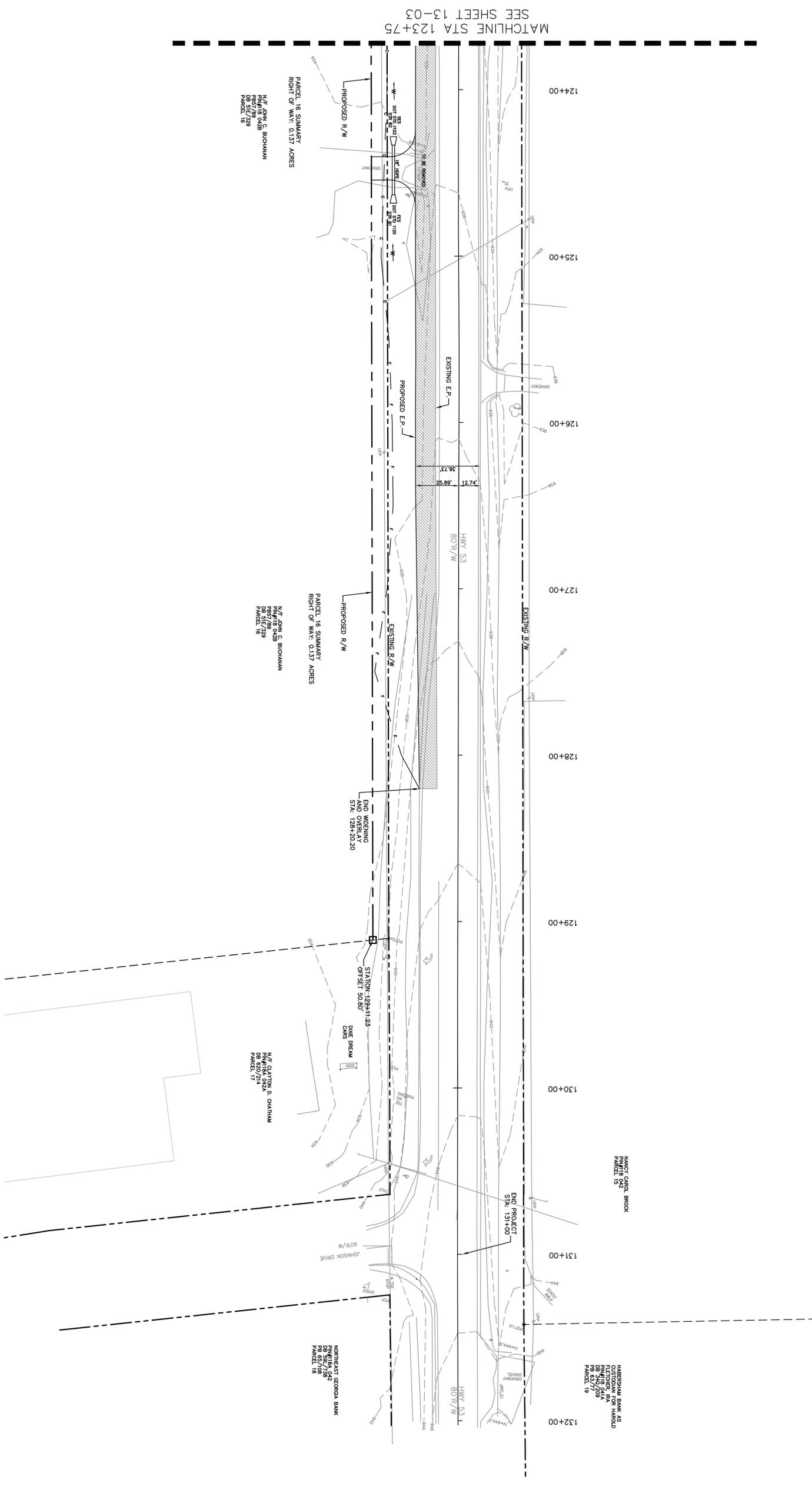
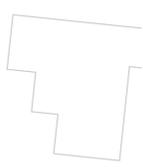
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OFFICE: MAINLINE PLAN

SR 53 WIDENING

DRAWING No.  
13-02

GRUN





REVISION DATES	OFFICE:
	Town of Broselton
	MAINLINE PLAN

SR 53 WIDENING

BRUN

**BM&K**  
CONSTRUCTION  
& ENGINEERING

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FAX: 706-824-0919

SR 53 WIDENING

SR 53 WIDENING

DRAWING No.  
**13-04**

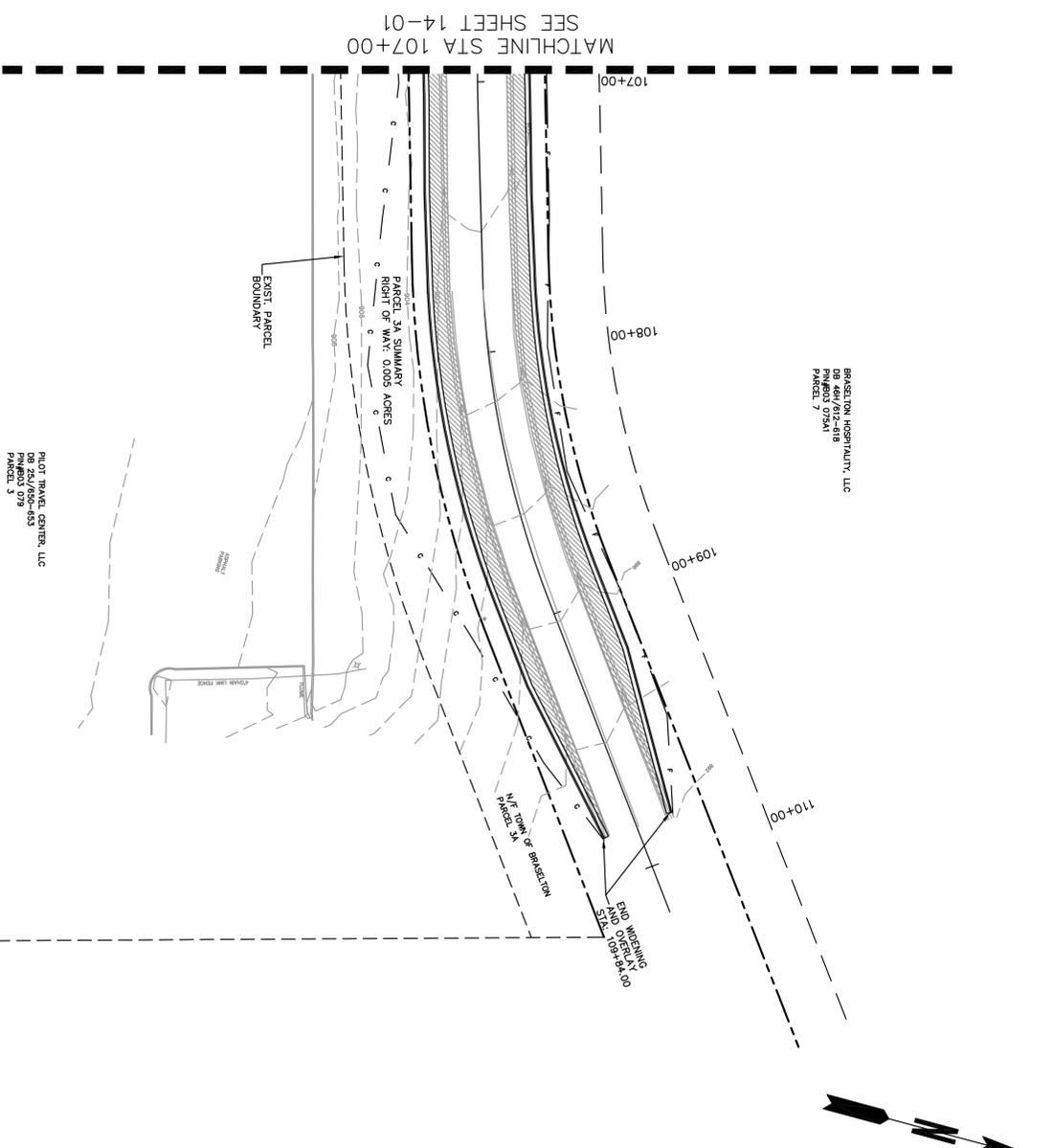


COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



PILOT TRAIL CENTER, LLC  
DB 25/150-453  
PARCELS 079  
PARCEL 3



REVISION DATES

Town of Braselton  
OFFICE:  
CROSSROAD PLAN

SR 53 WIDENING

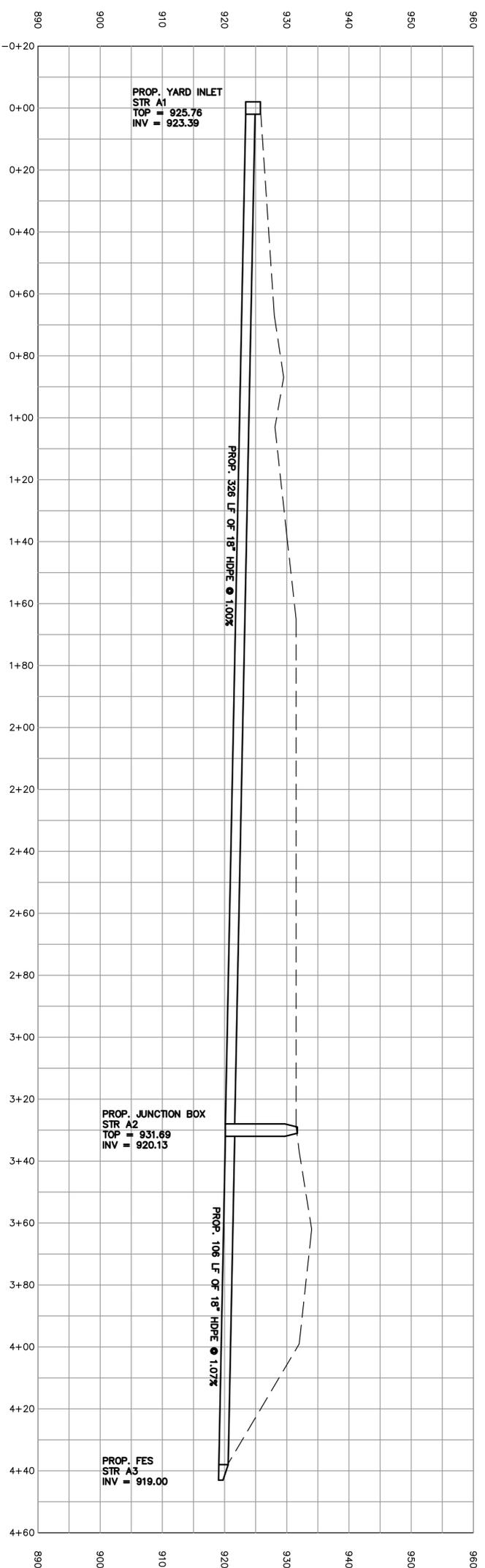
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**BW&K**  
CONSTRUCTION  
& ENGINEERING

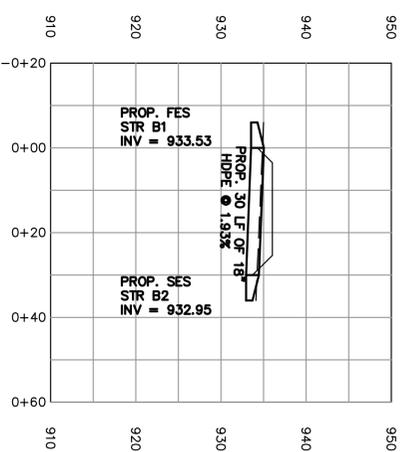
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GRU

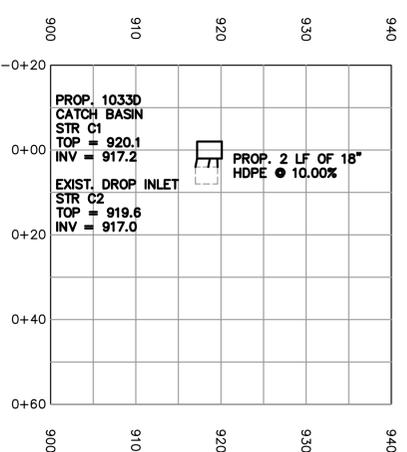
P-STORM A1-A3 PROFILE



P-STORM B1-B2 PROFILE



P-STORM C1-C2 PROFILE



REVISION DATES

Town of Broselton

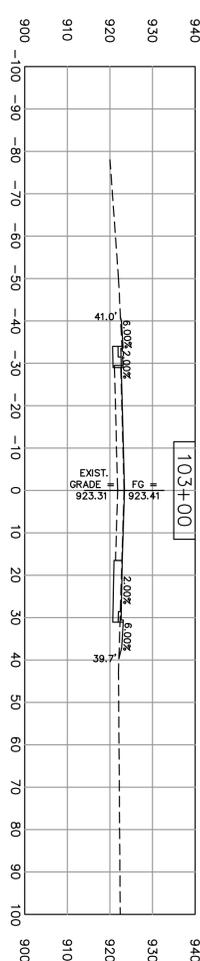
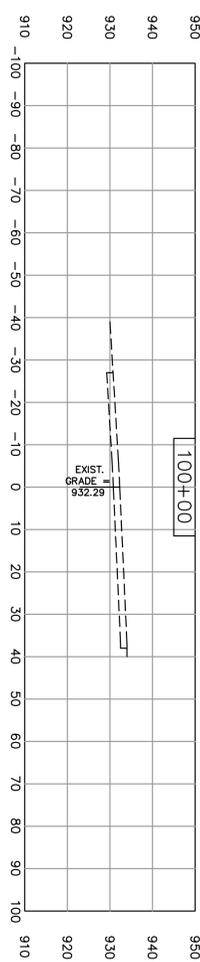
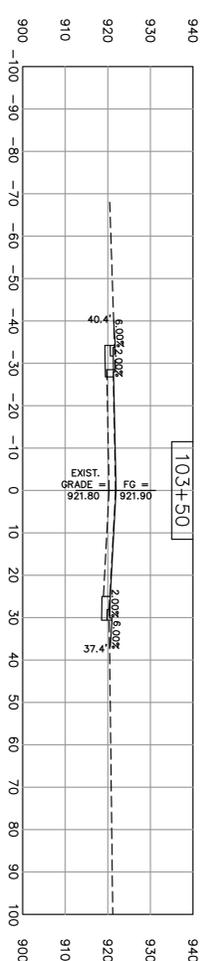
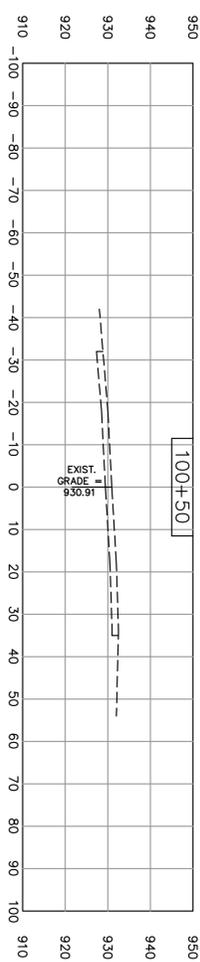
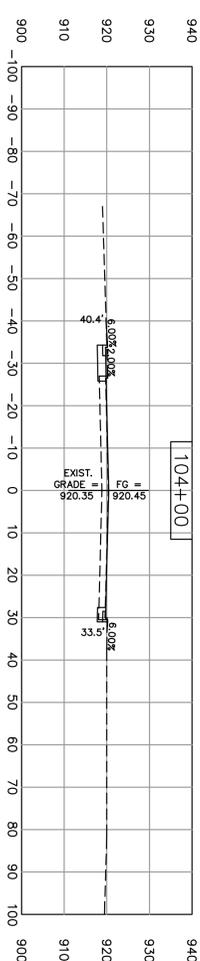
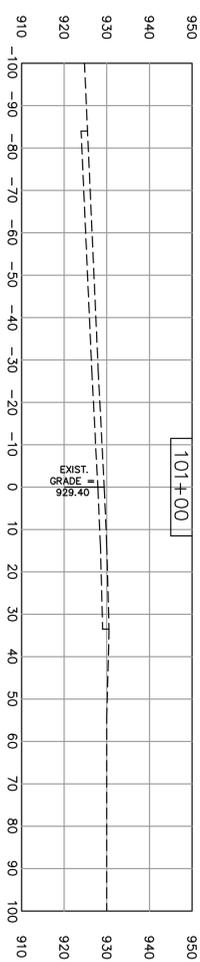
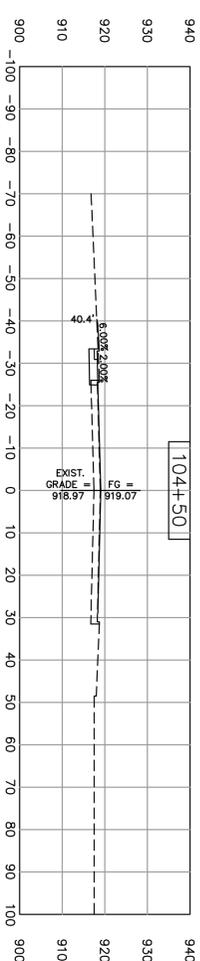
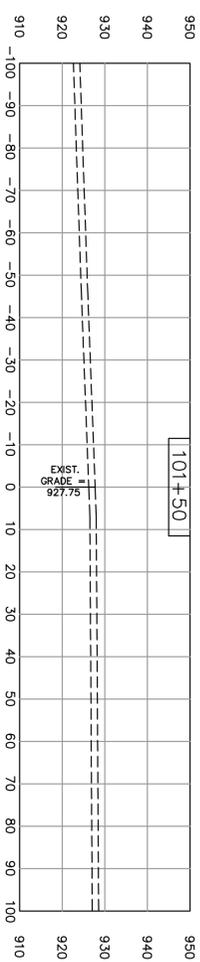
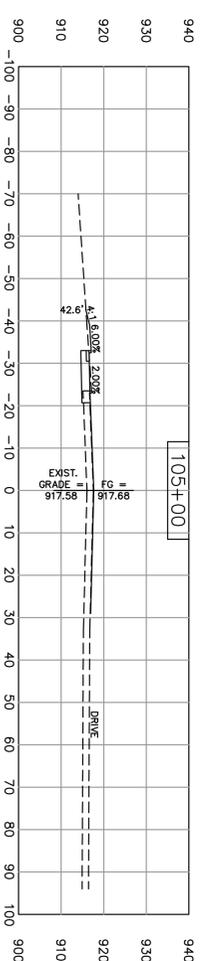
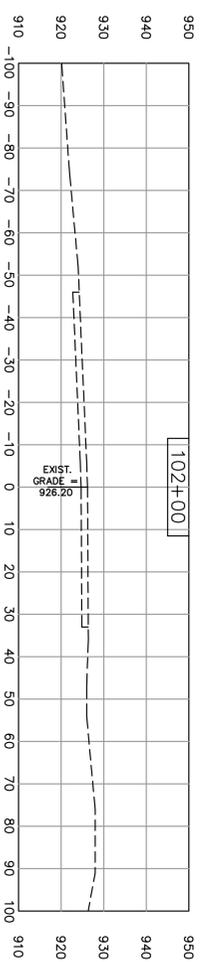
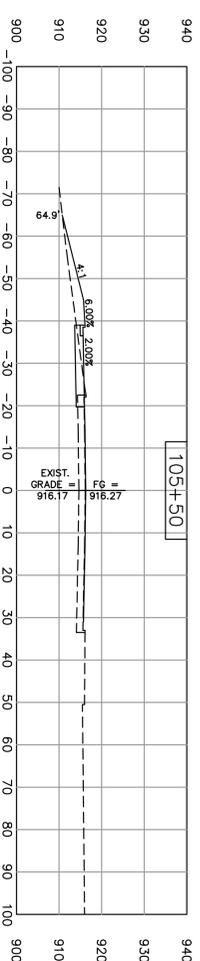
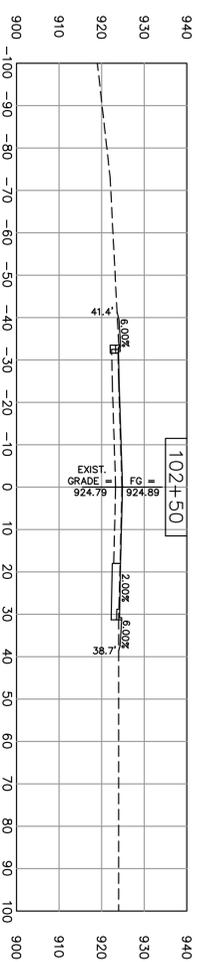
OFFICE:

DRAINAGE PROFILES

SR 53 WIDENING

DRAWING No.  
20-01





REVISION DATES

Town of Broselton

OFFICE:

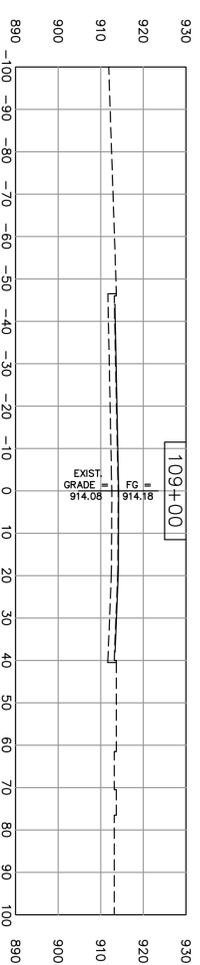
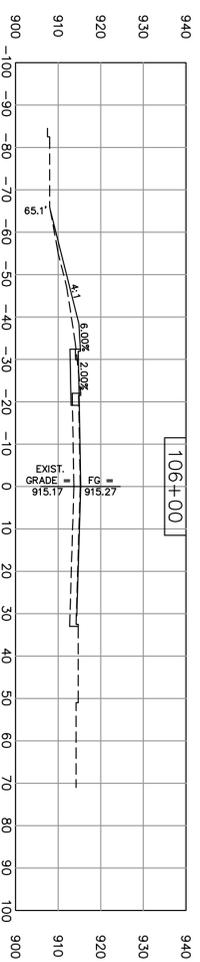
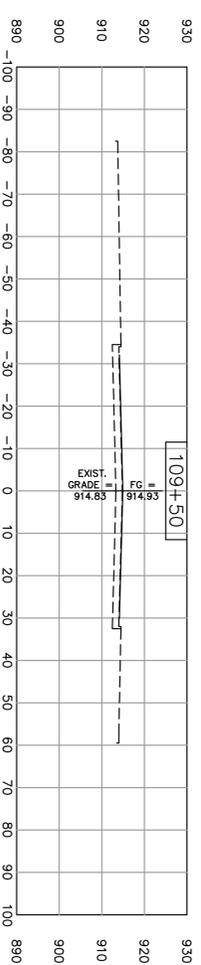
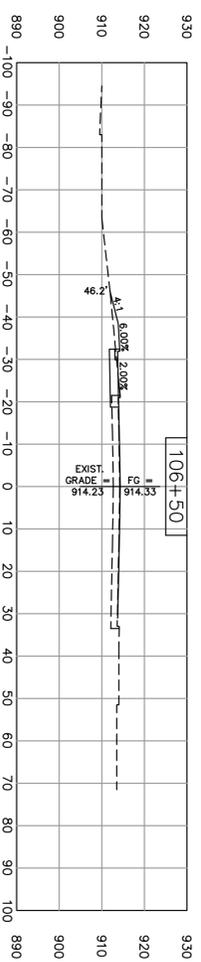
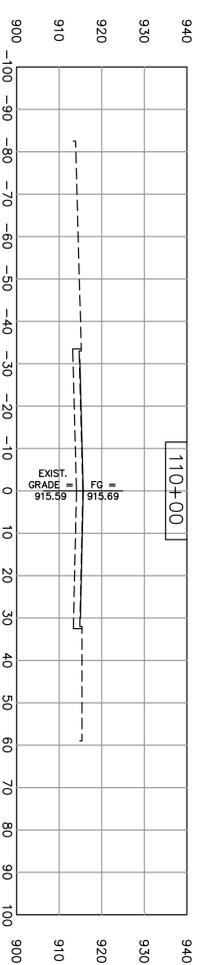
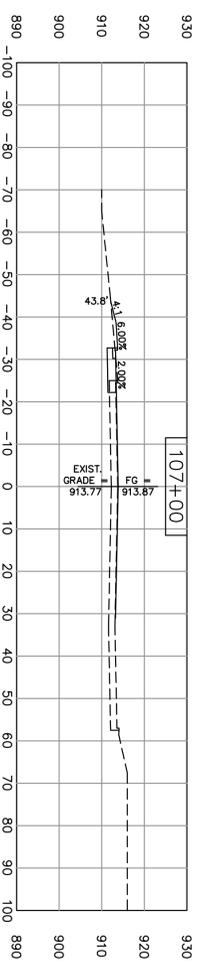
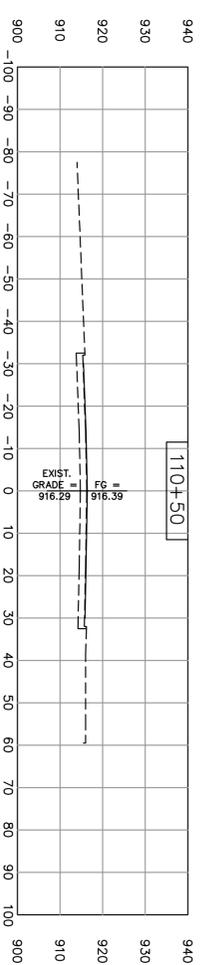
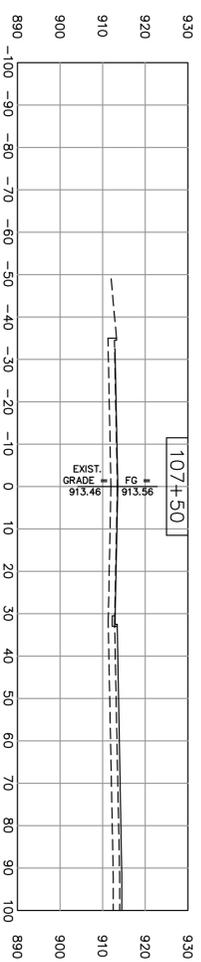
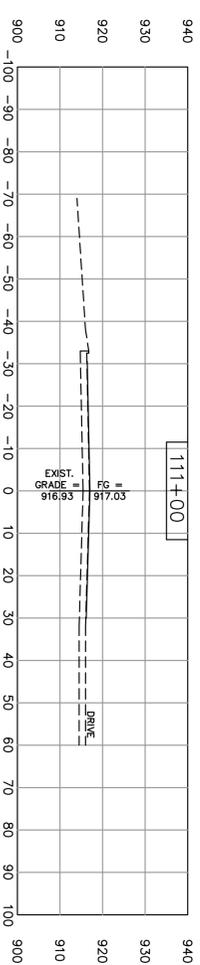
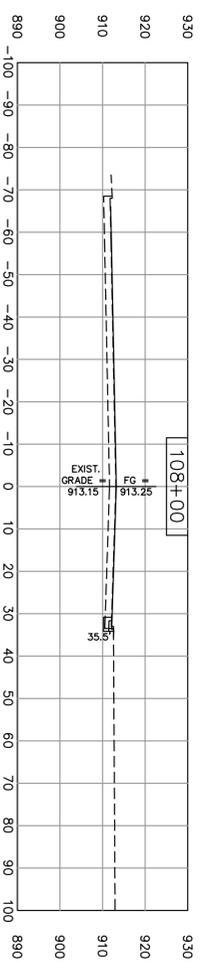
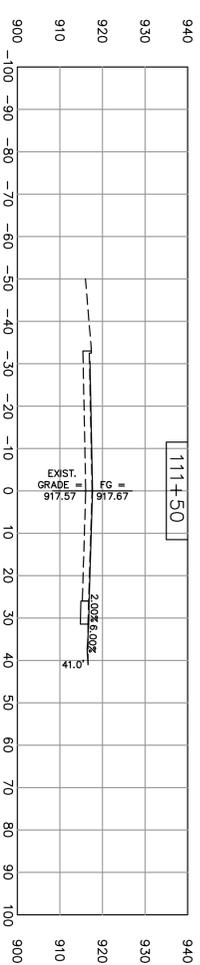
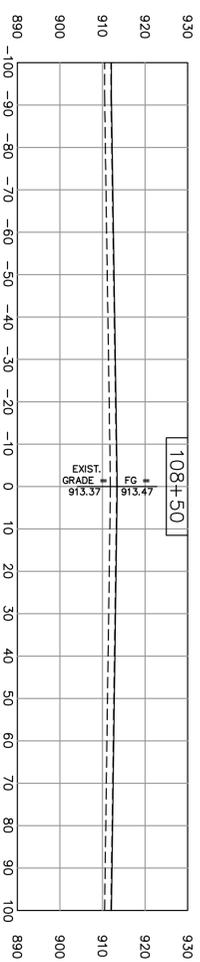
CROSS SECTIONS

STATE ROUTE 53

DRAWING No.  
21-01



P.O. BOX 878  
BROSSELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519



REVISION DATES

Town of Broselton

OFFICE:

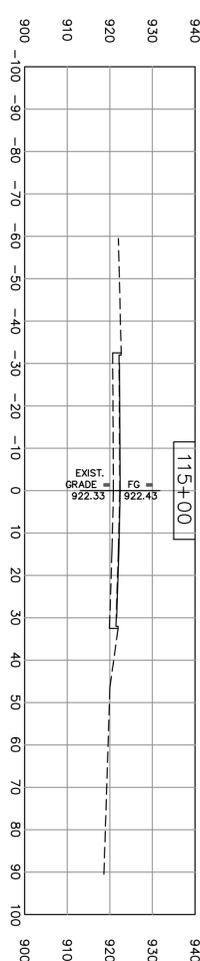
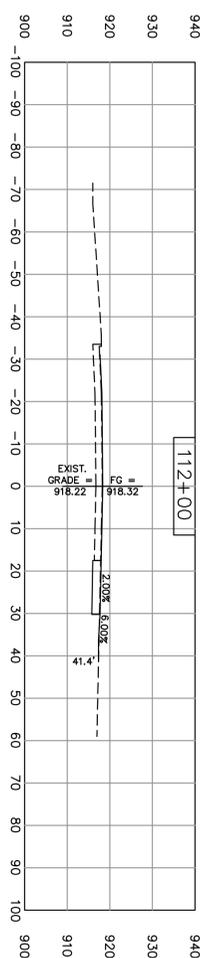
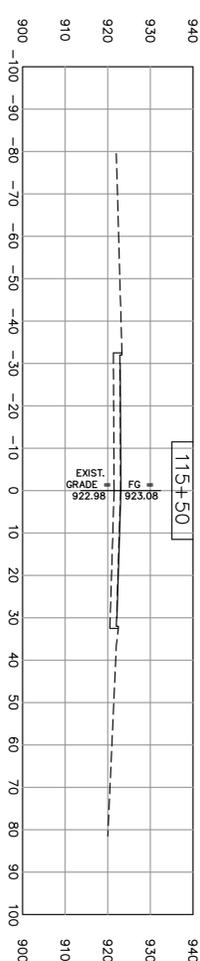
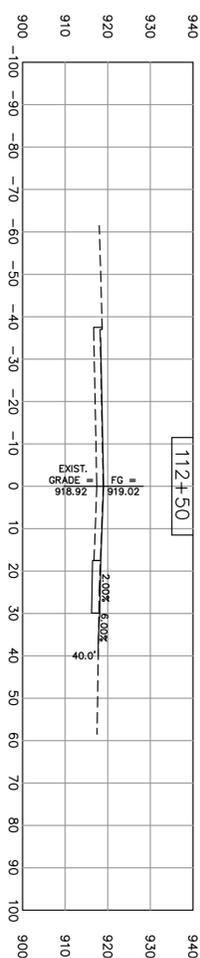
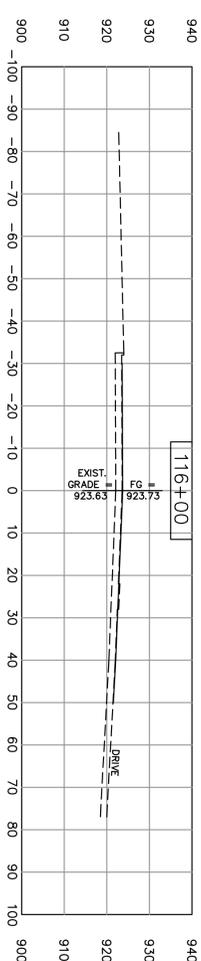
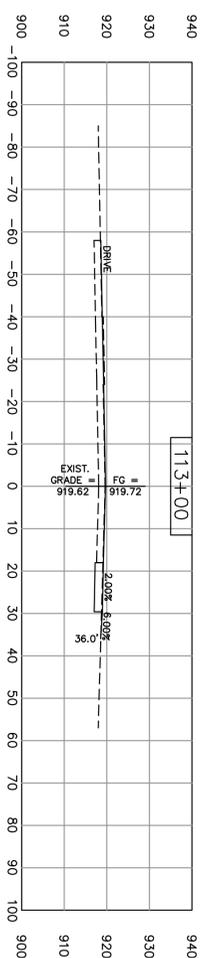
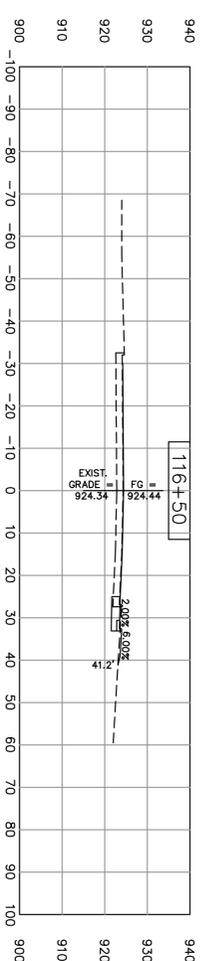
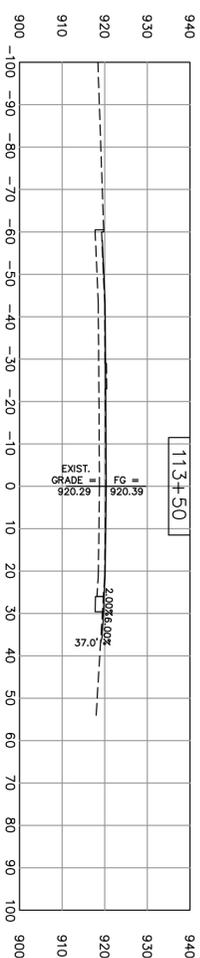
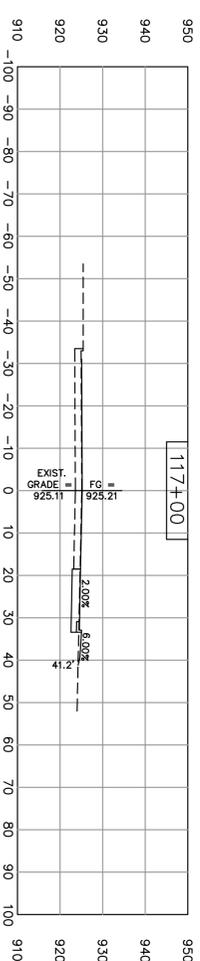
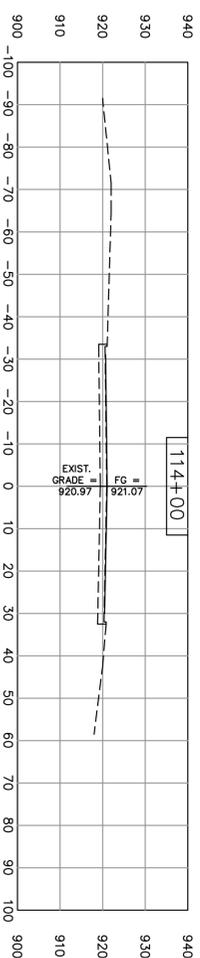
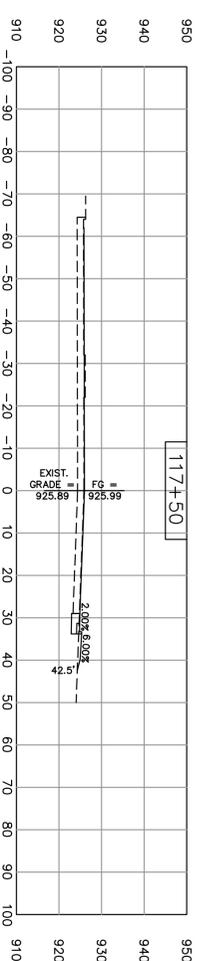
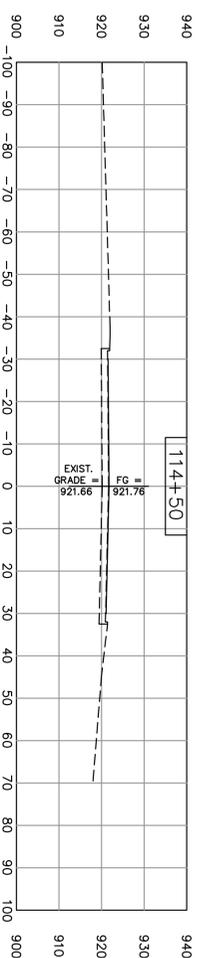
CROSS SECTIONS

STATE ROUTE 53

DRAWING No.  
21-02



PO BOX 878  
BROSSELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519



REVISION DATES

Town of Broselton

OFFICE:

CROSS SECTIONS

STATE ROUTE 53

DRAWING No.  
21-03



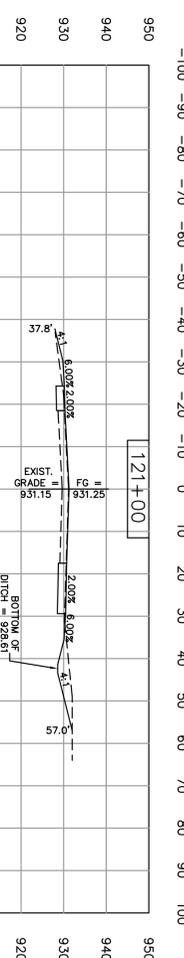
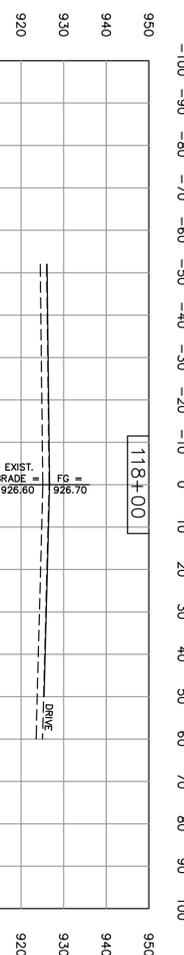
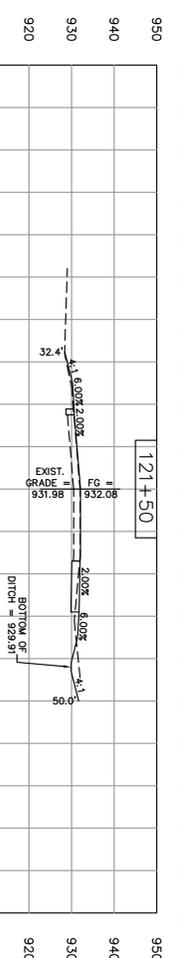
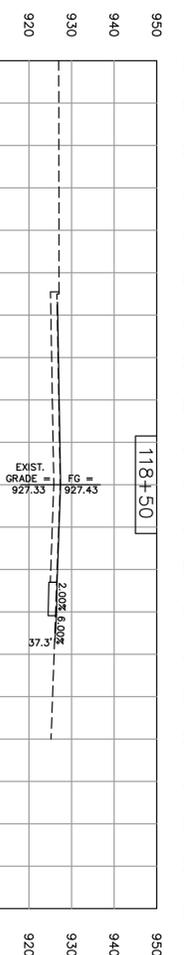
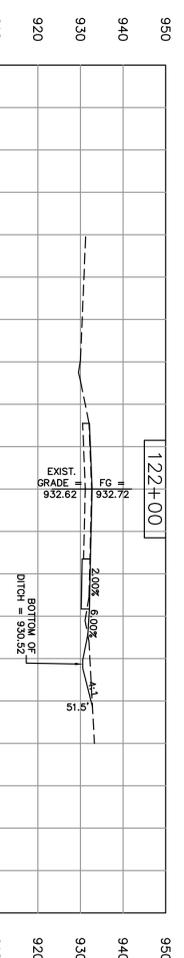
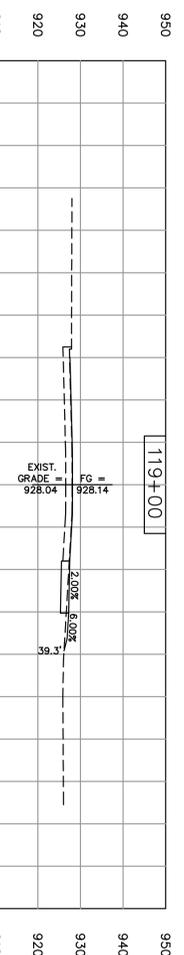
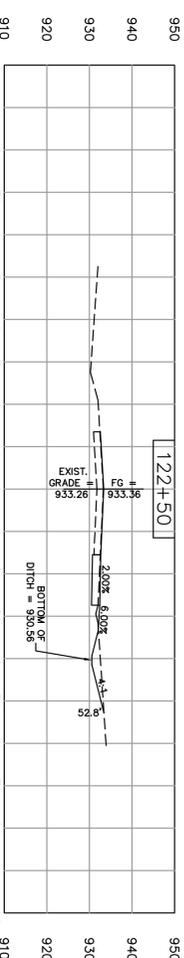
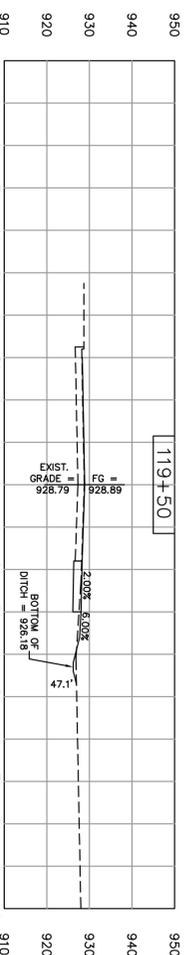
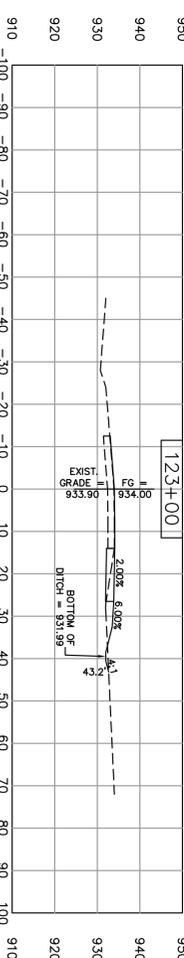
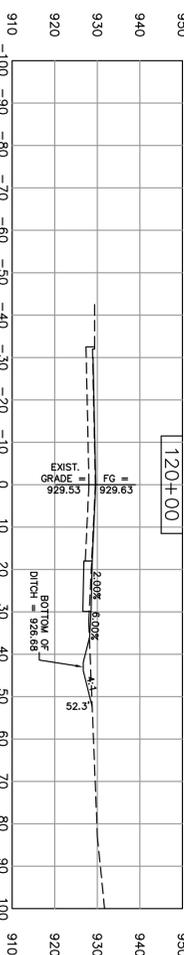
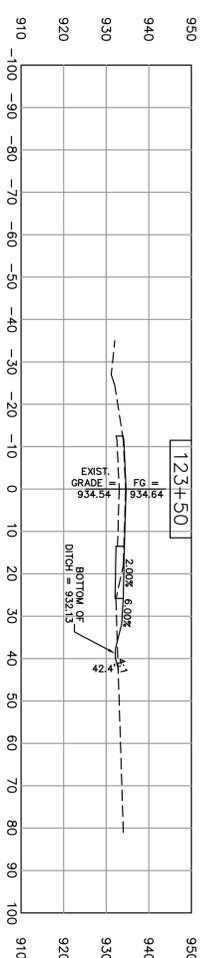
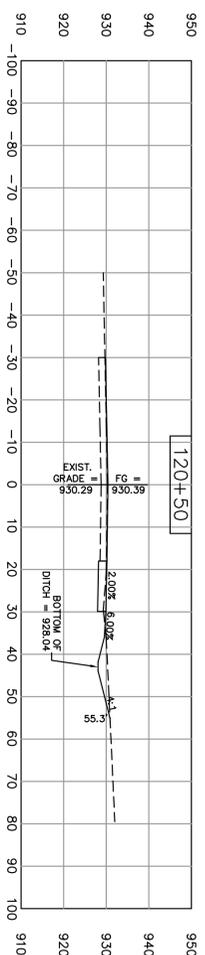
PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519

COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



REVISION DATES

Town of Broselton

OFFICE:

CROSS SECTIONS

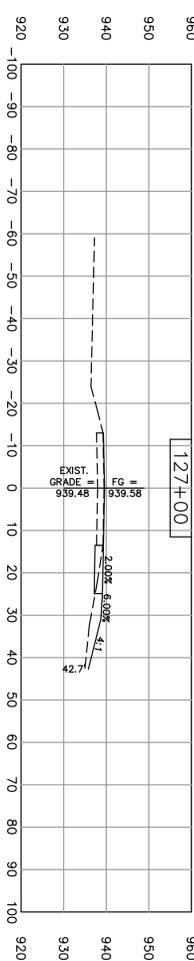
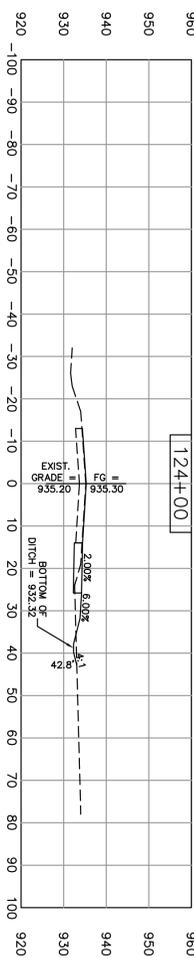
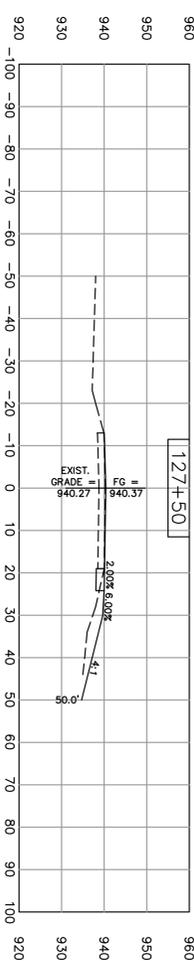
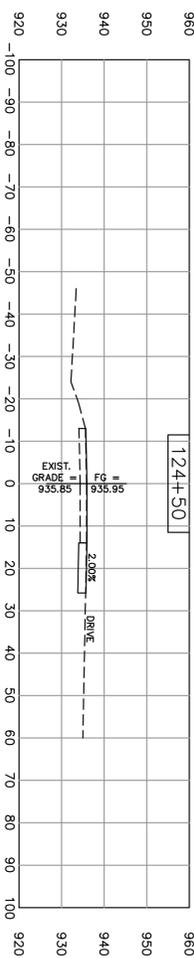
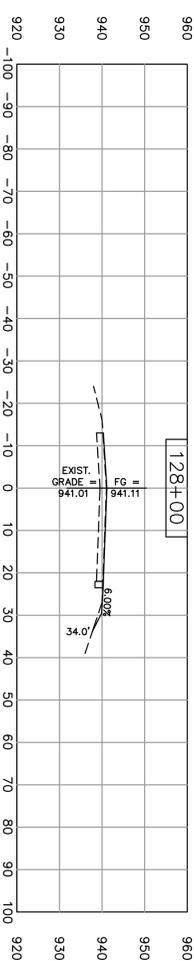
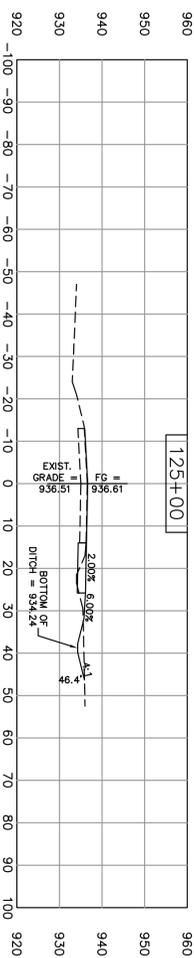
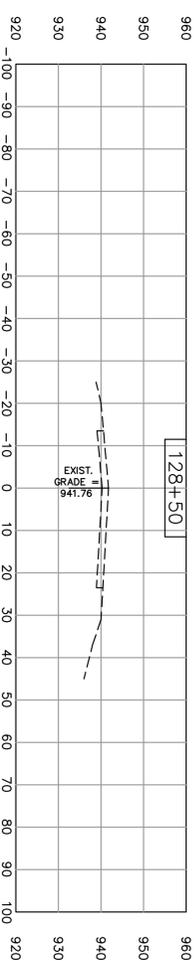
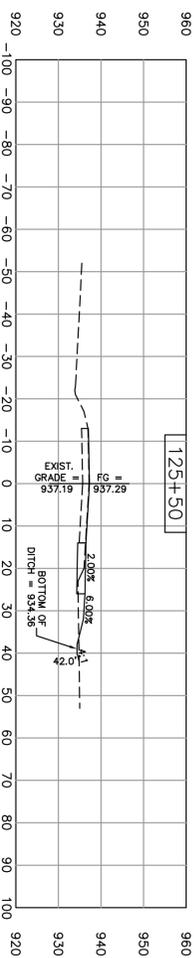
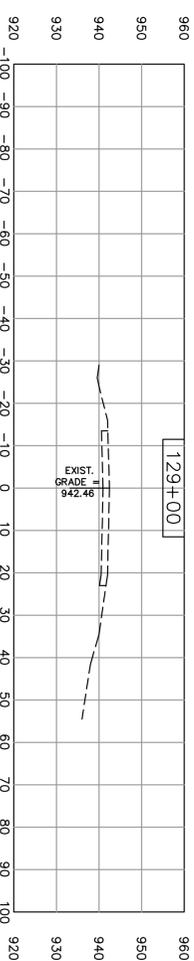
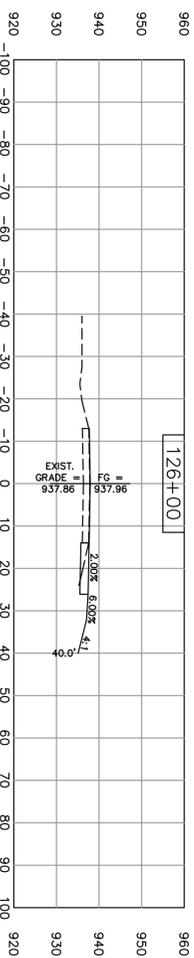
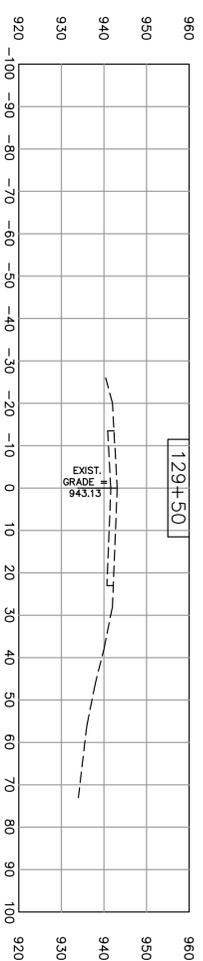
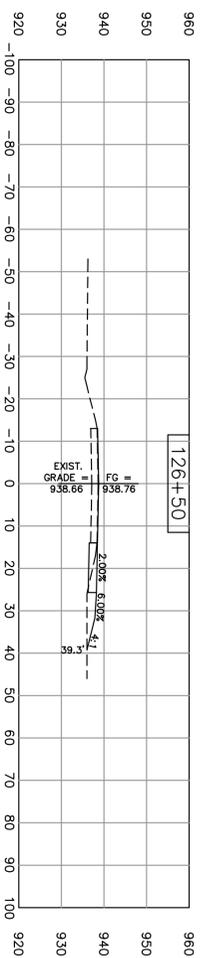
STATE ROUTE 53

DRAWING No.  
21-04



P.O. BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519

GRUN



REVISION DATES

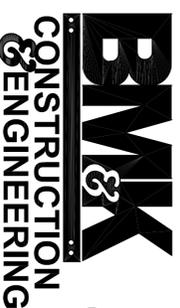
Town of Broselton

OFFICE:

CROSS SECTIONS

STATE ROUTE 53

DRAWING No.  
21-05



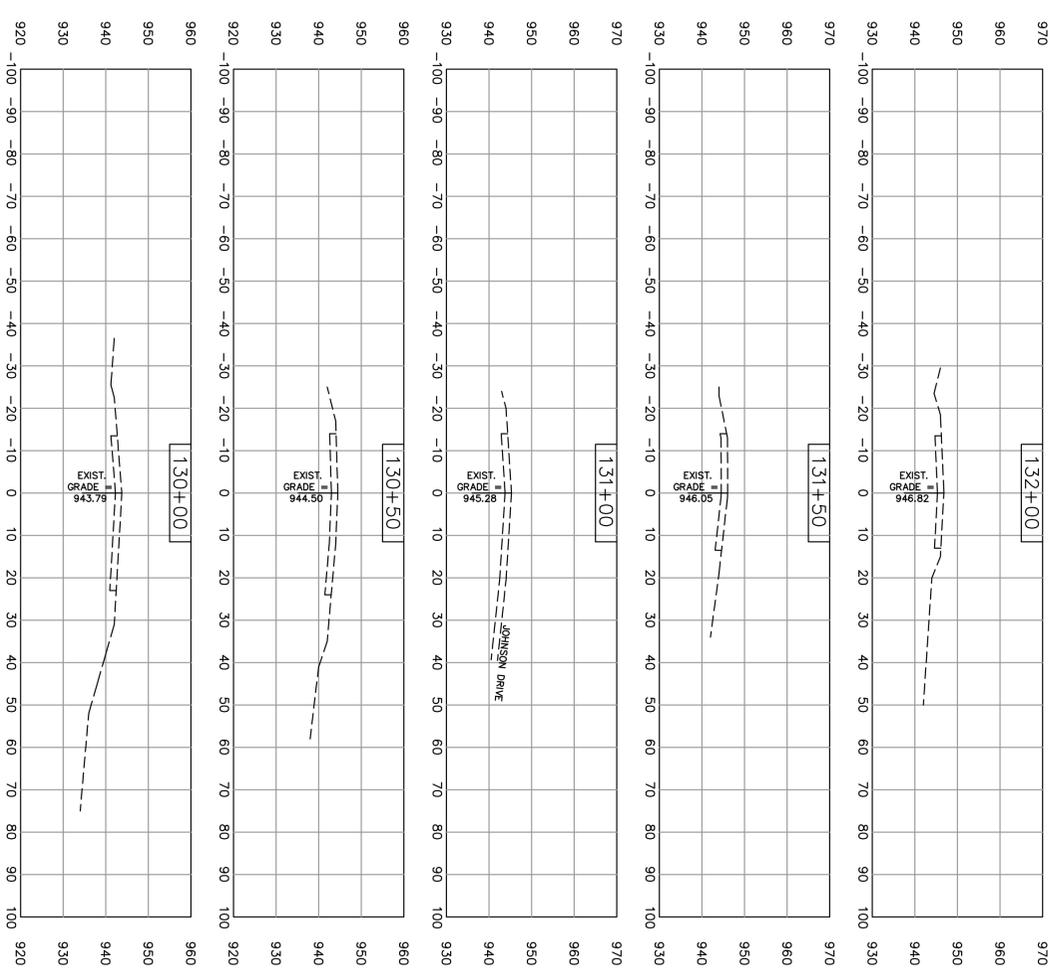
PO BOX 878  
BROSSELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519

COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



REVISION DATES

Town of Broselton

OFFICE:

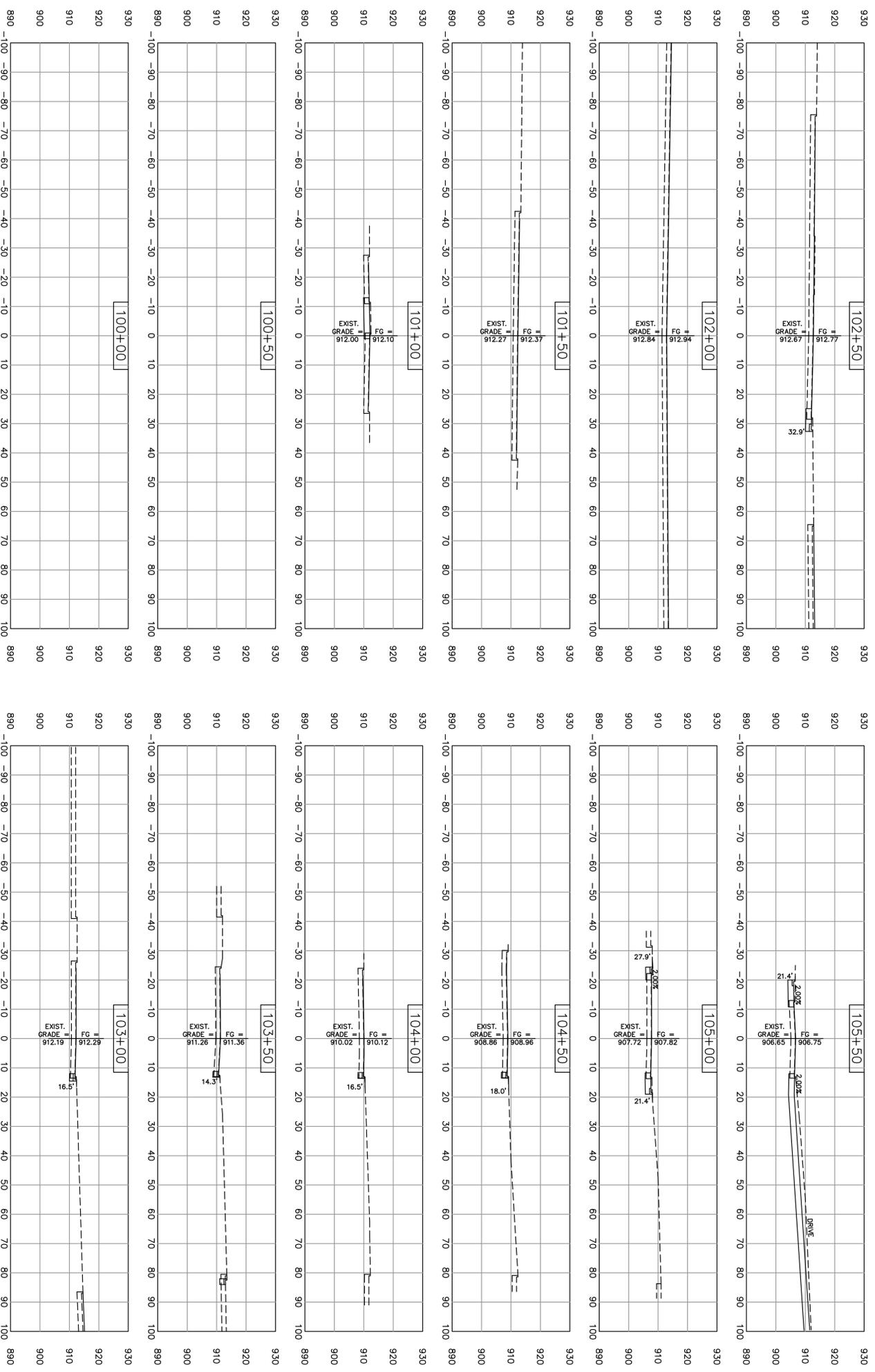
CROSS SECTIONS

STATE ROUTE 53

DRAWING No.  
21-06

**BW&K**  
CONSTRUCTION  
& ENGINEERING  
P.O. BOX 878  
BROSSELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519

GRU



**BW&K**  
CONSTRUCTION  
& ENGINEERING

PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519

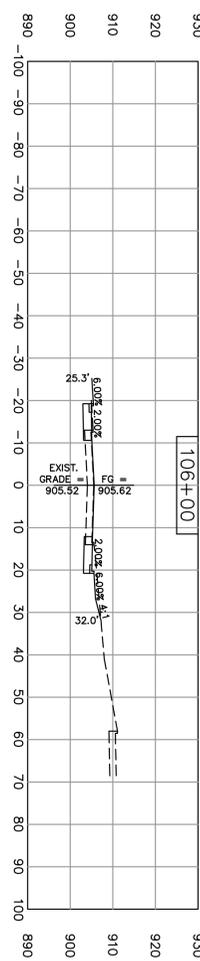
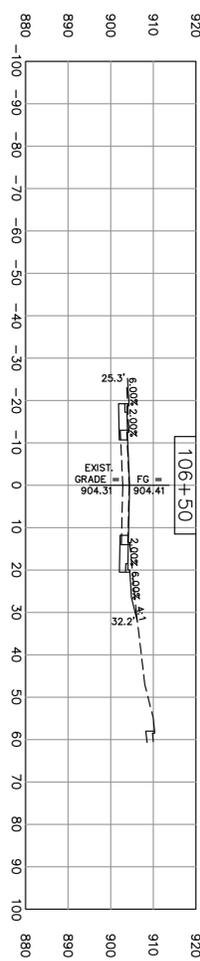
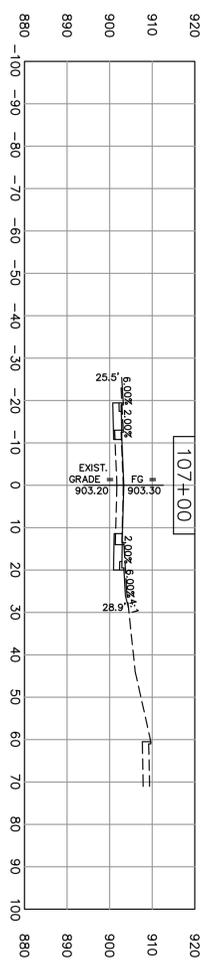
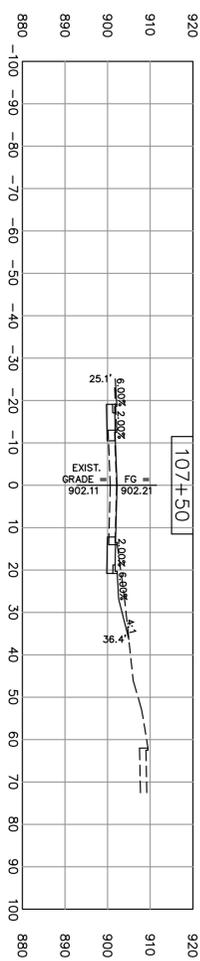
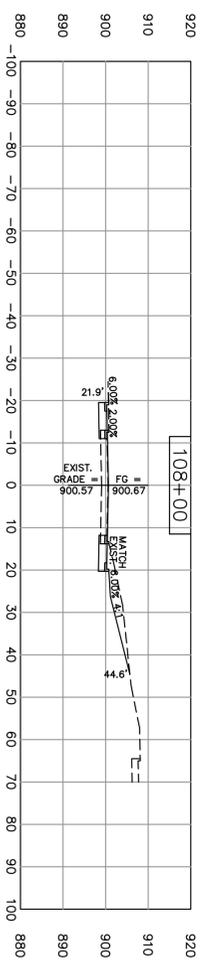
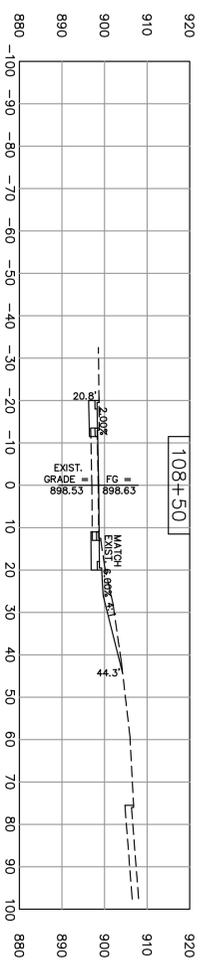
REVISION DATES

Town of Braselton

OFFICE:  
CROSS SECTIONS

CHARDONNAY TRACE

DRAWING No.  
22-01



REVISION DATES

Town of Broselton

OFFICE:

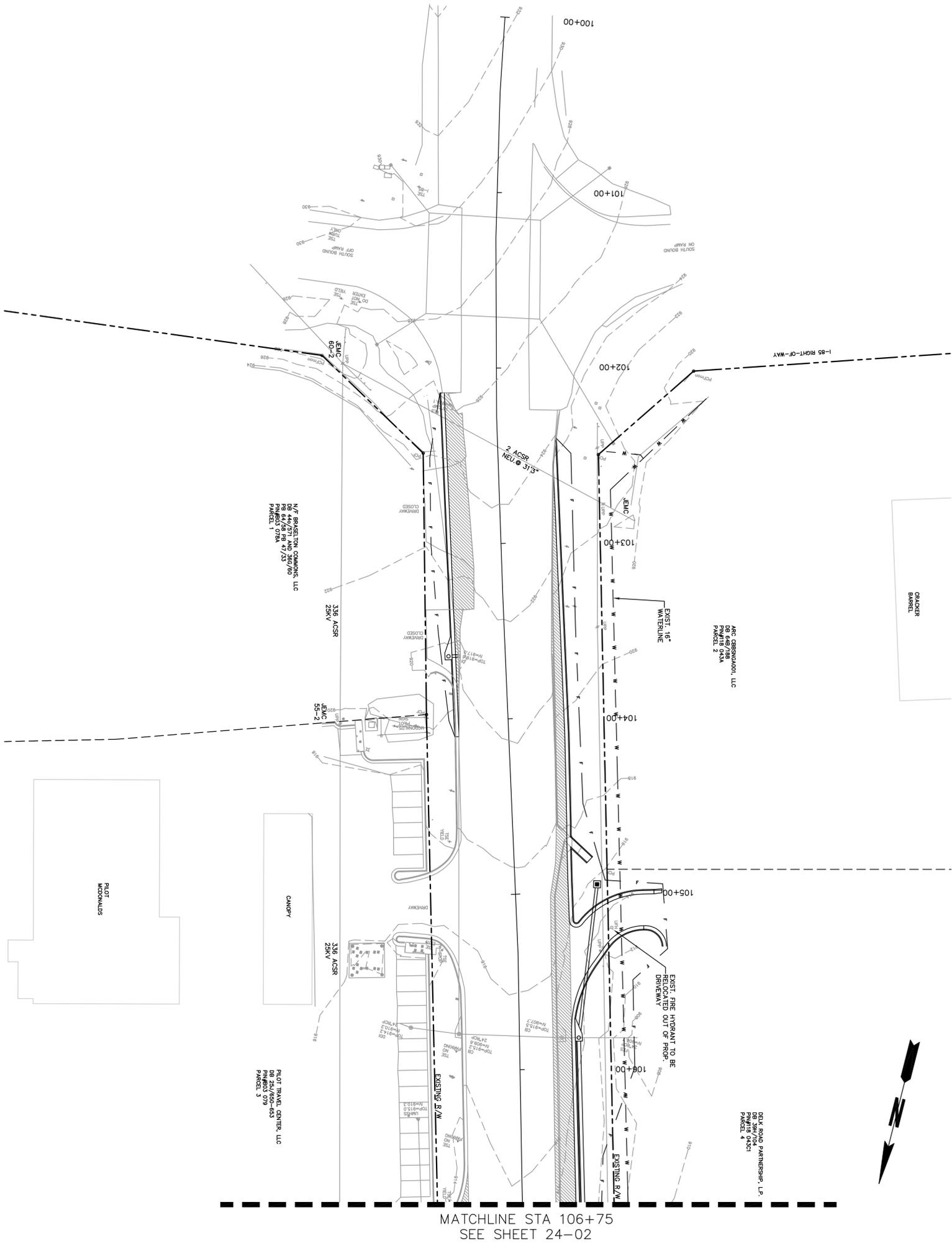
CROSS SECTIONS

CHARDONNAY TRACE

DRAWING No.  
22-02



PO BOX 878  
BROSSELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519



MATCHLINE STA 106+75  
SEE SHEET 24-02

	PO BOX 878 BRASELTON, GA 30917 BUSINESS: 706-824-0514 FAX: 706-824-0519	SCALE IN FEET 	REVISION DATES <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> </table>												
Town of Braselton UTILITY DRAWINGS		OFFICE: SR 53 WIDENING													
DRAWING No. <b>24-01</b>															

N/2 BRASELTON COMMONS, LLC  
 P/2 64/58 P/2 47/23  
 PARCELS 078A  
 PARCEL 1

ARC DEVELOPMENT, LLC  
 P/2 118 043A  
 PARCEL 2

DELX ROAD PARTNERSHIP, L.P.  
 P/2 118 043B  
 PARCEL 4

PILOT TRAIL CENTER, LLC  
 P/2 254/650-533  
 PARCELS 079  
 PARCEL 3

CAMP#

PILOT  
 MCDONALDS

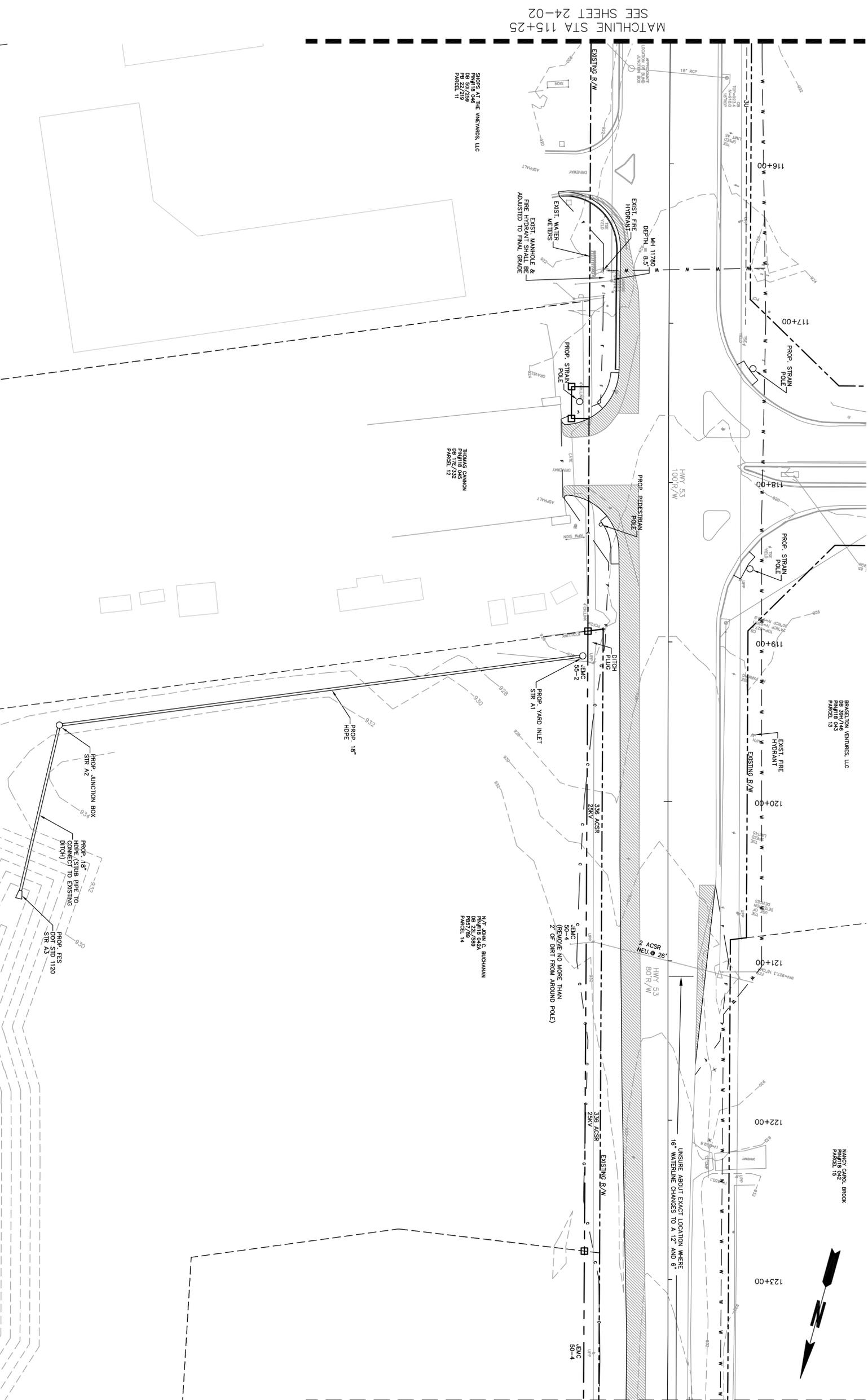


COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



MATCHLINE STA 115+25  
SEE SHEET 24-02

MATCHLINE STA 123+75  
SEE SHEET 24-04

SHIVERS AT THE WRECKERS, LLC  
DB 09/20/22  
PRJ 22/23  
PARCEL 11

THOMAS GANNON  
PRJ 04/24  
PARCEL 12

BRASSETON VENTURES, LLC  
PRJ 04/24  
PARCEL 13

M/R JOHN C. BUDHANI  
PRJ 04/24  
PRJ 7/23  
PARCEL 14

NANCY CAROL BROCK  
PRJ 04/24  
PARCEL 15

UNSURE ABOUT EXACT LOCATION WHERE  
18" WATERLINE CHANGES TO A 12" AND 6"



PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519



REVISION DATES

Town of Braselton

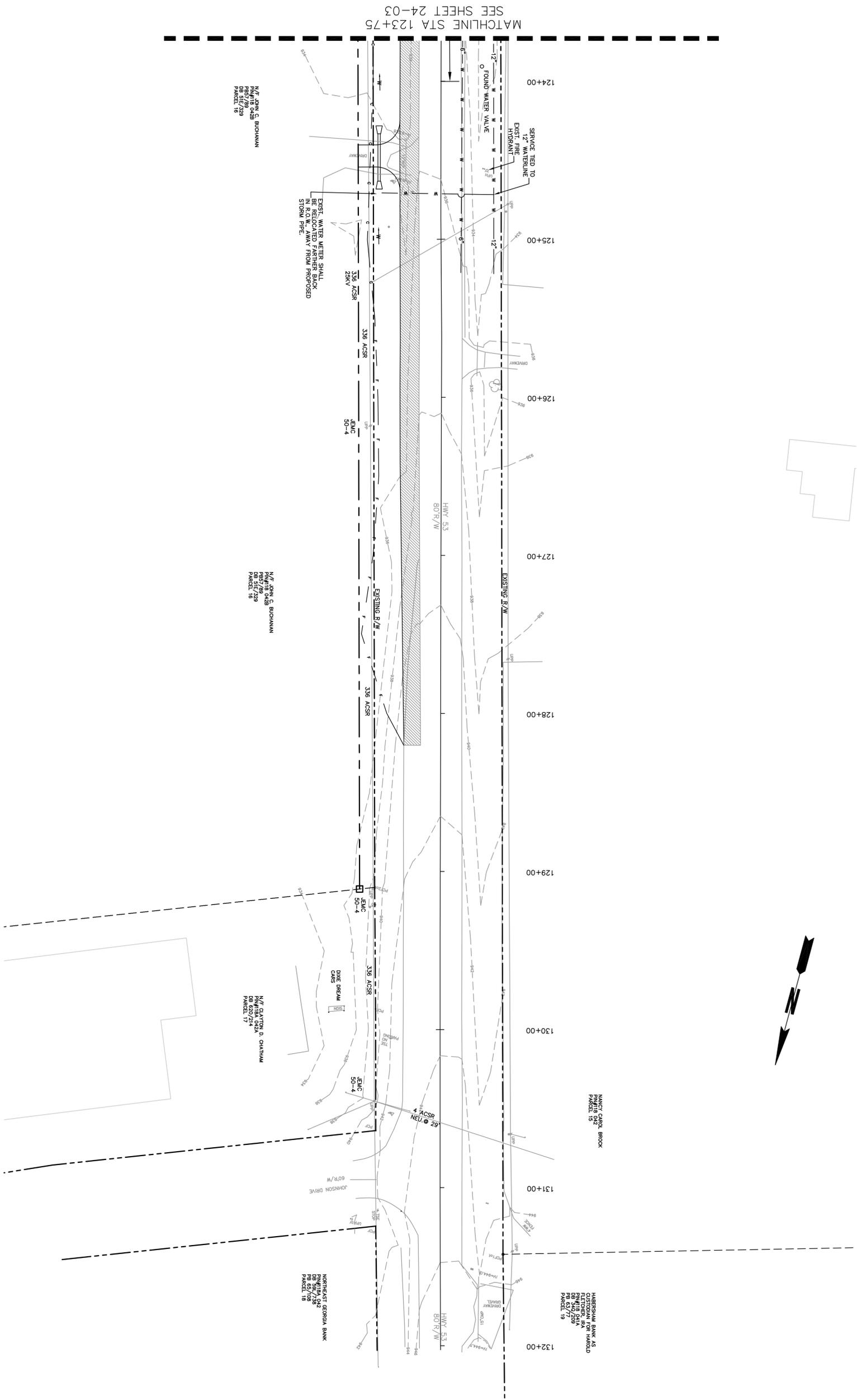
OFFICE:

UTILITY DRAWINGS

SR 53 WIDENING

DRAWING No.  
24-03

GRU



MATCHLINE STA 123+75  
SEE SHEET 24-03

N/E JOHN C. BUCHMANN  
PROJECT NO. 24-04  
DATE: 02/22/20  
PARCEL 18

N/E JOHN C. BUCHMANN  
PROJECT NO. 24-04  
DATE: 02/22/20  
PARCEL 18

N/E STAYTON D. CHANTHAM  
PROJECT NO. 24-04  
DATE: 02/22/20  
PARCEL 17

NORTHEAST GEORGIA BANK  
PROJECT NO. 24-04  
DATE: 02/22/20  
PARCEL 18

NANCY CAROL BROCK  
PROJECT NO. 24-04  
DATE: 02/22/20  
PARCEL 19

HARRISMAN BANK AS  
CUSTOMER FOR HARRIS  
PROJECT NO. 24-04  
DATE: 02/22/20  
PARCEL 19



REVISION DATES

Town of Broselton

OFFICE:

UTILITY DRAWINGS

SR 53 WIDENING

DRAWING No.  
**24-04**

**BM&K**  
CONSTRUCTION  
& ENGINEERING

PO BOX 878  
BROSSELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519



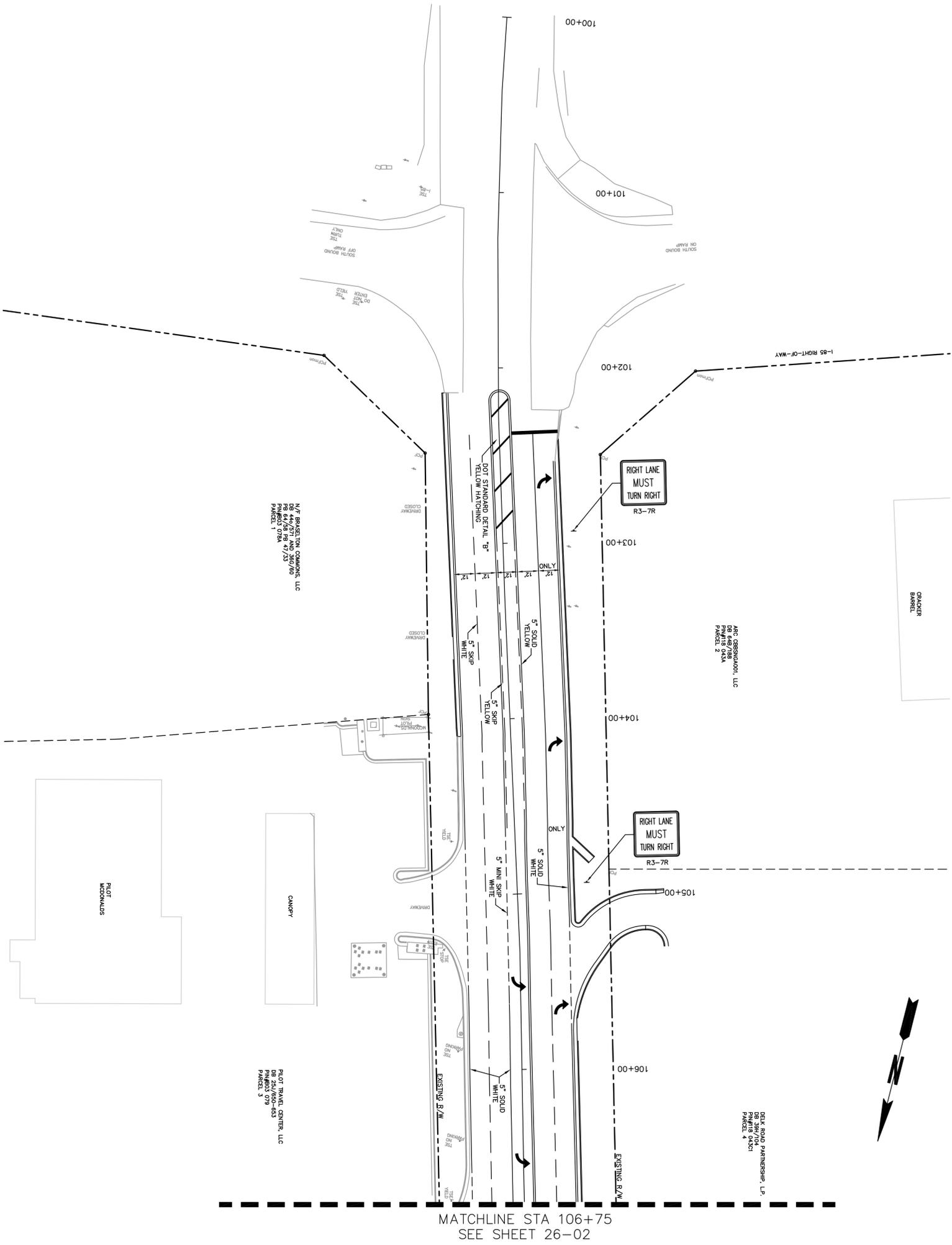


COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



REVISION DATES


Town of Broseton

OFFICE:  
SIGNING AND MARKING PLANS

BM & K  
CONSTRUCTION & ENGINEERING

PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519

STATE ROUTE 53

DRAWING No.  
**26-01**

GRU

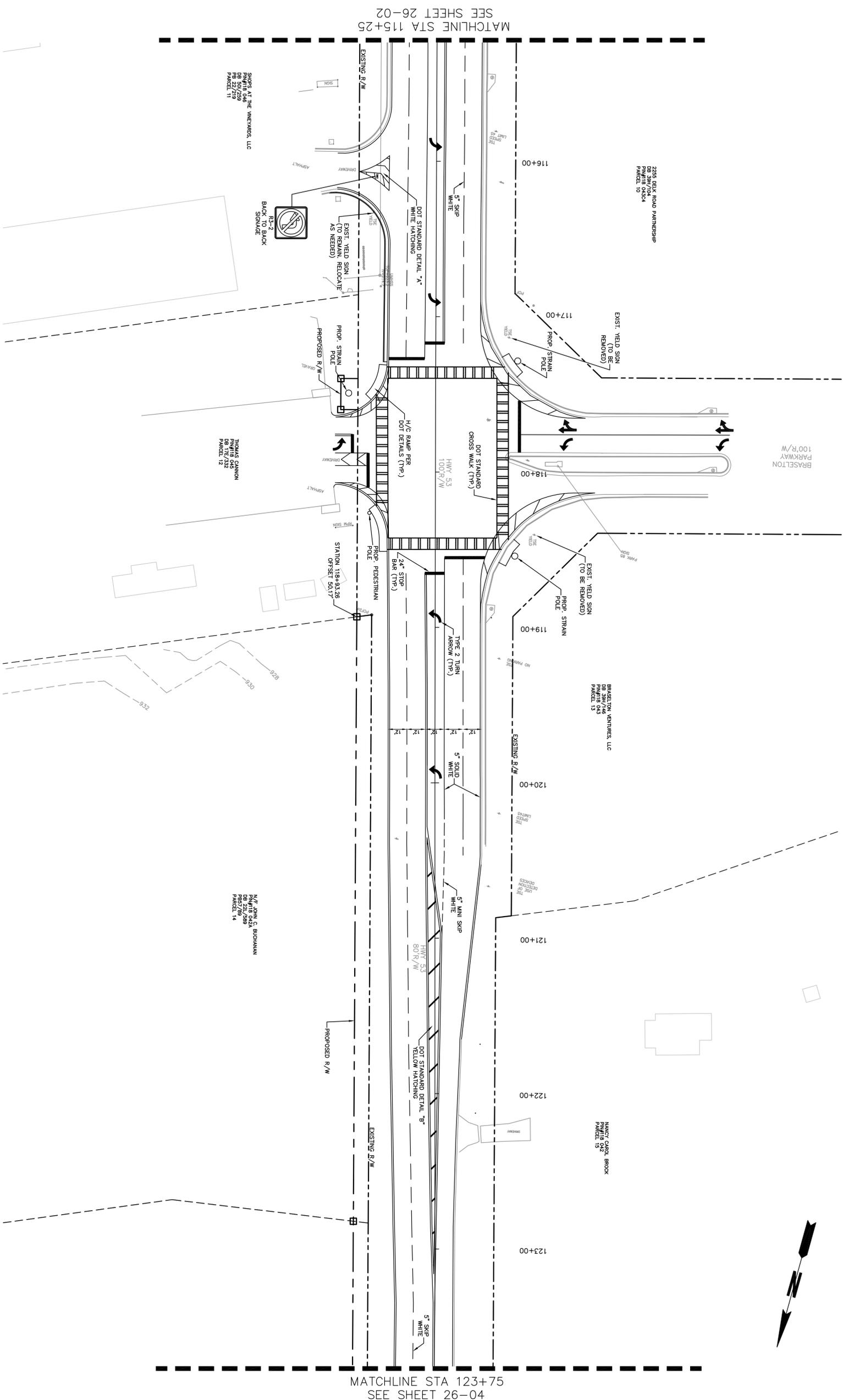


COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



MATCHLINE STA 115+25  
SEE SHEET 26-02

MATCHLINE STA 123+75  
SEE SHEET 26-04

SHIPS AT THE WINEYARDS, LLC  
PARCEL 10  
PR 22/719

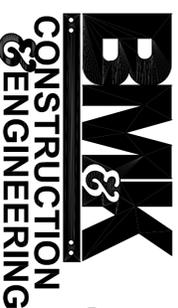
2255 PEAK ROAD PARTNERSHIP  
PARCEL 10  
PR 22/719

BRASELTON PARKWAY  
100'R/W

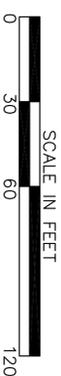
BRASELTON VENTURES, LLC  
PARCEL 13  
PR 28/146

M/F JOHN G. BUCHMAN  
PARCEL 14  
PR 27/389

MAYOR CARO BROOK  
PARCEL 15  
PR 24/142



PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519



REVISION DATES

Town of Braselton

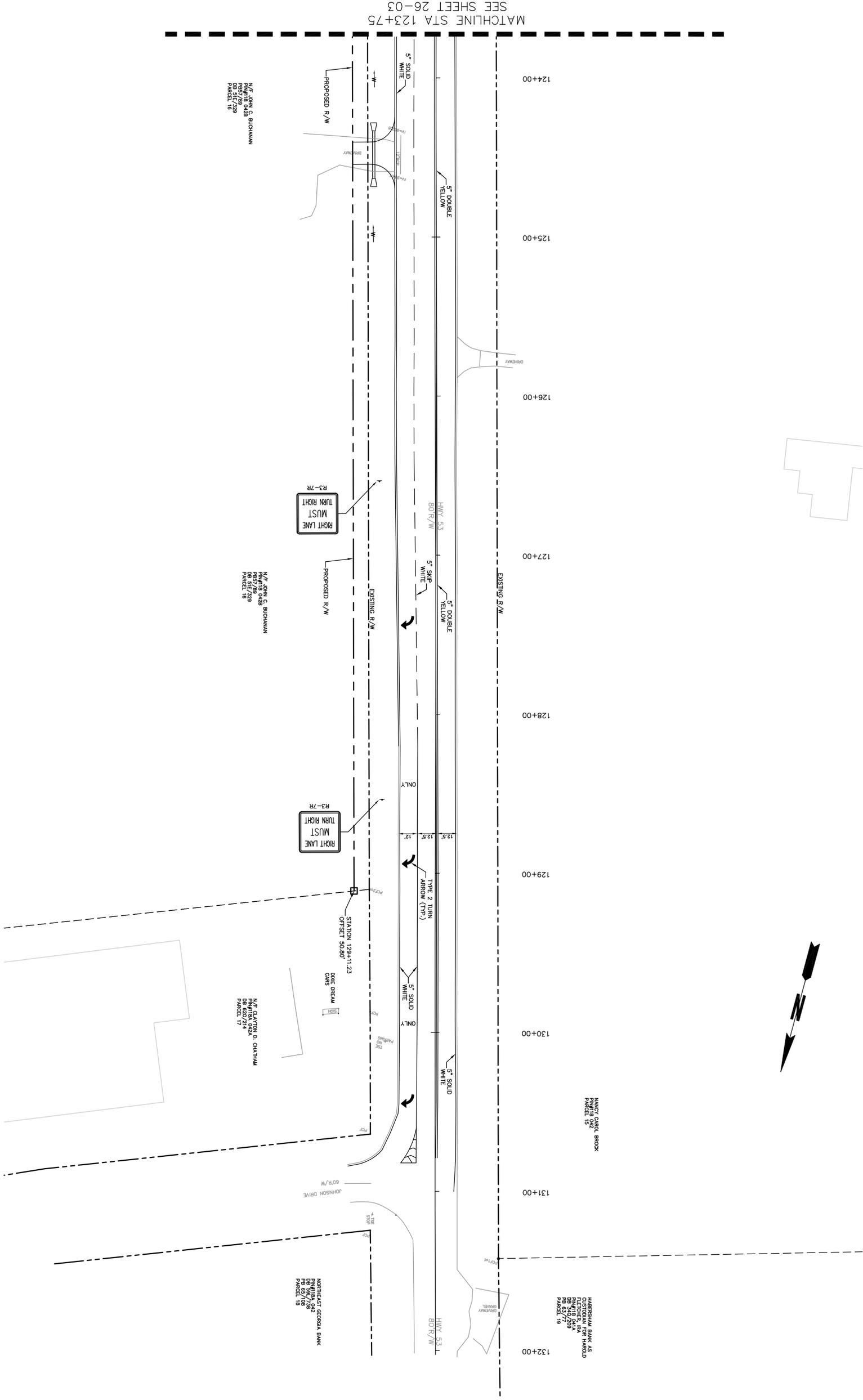
OFFICE:

SIGNING AND MARKING PLANS

STATE ROUTE 53

DRAWING No.  
26-03

GRU



MATCHLINE STA 123+75  
SEE SHEET 26-03

N/E JOHN C. BUCHANAN  
P/MTS 0428  
PB 63/729  
PARCEL 16

N/E JOHN C. BUCHANAN  
P/MTS 0428  
PB 63/729  
PARCEL 16

N/E CLAYTON D. CHATHAM  
P/MTS 0424  
PB 63/717  
PARCEL 17

NORTHWEST GEORGIA BANK  
P/MTS 0424  
PB 63/708  
PARCEL 18

NANCY CAROL BROCK  
P/MTS 0422  
PB 63/719  
PARCEL 19

HARRISMAN BANK AS  
CUSTODIAN FOR HANCOCK  
P/MTS 0414  
PB 63/779  
PARCEL 19



REVISION DATES


Town of Broselton

OFFICE:  
SIGNING AND MARKING PLANS

STATE ROUTE 53

DRAWING No.  
**26-04**

**BM&K**  
CONSTRUCTION  
& ENGINEERING

PO BOX 878  
BROSSELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519

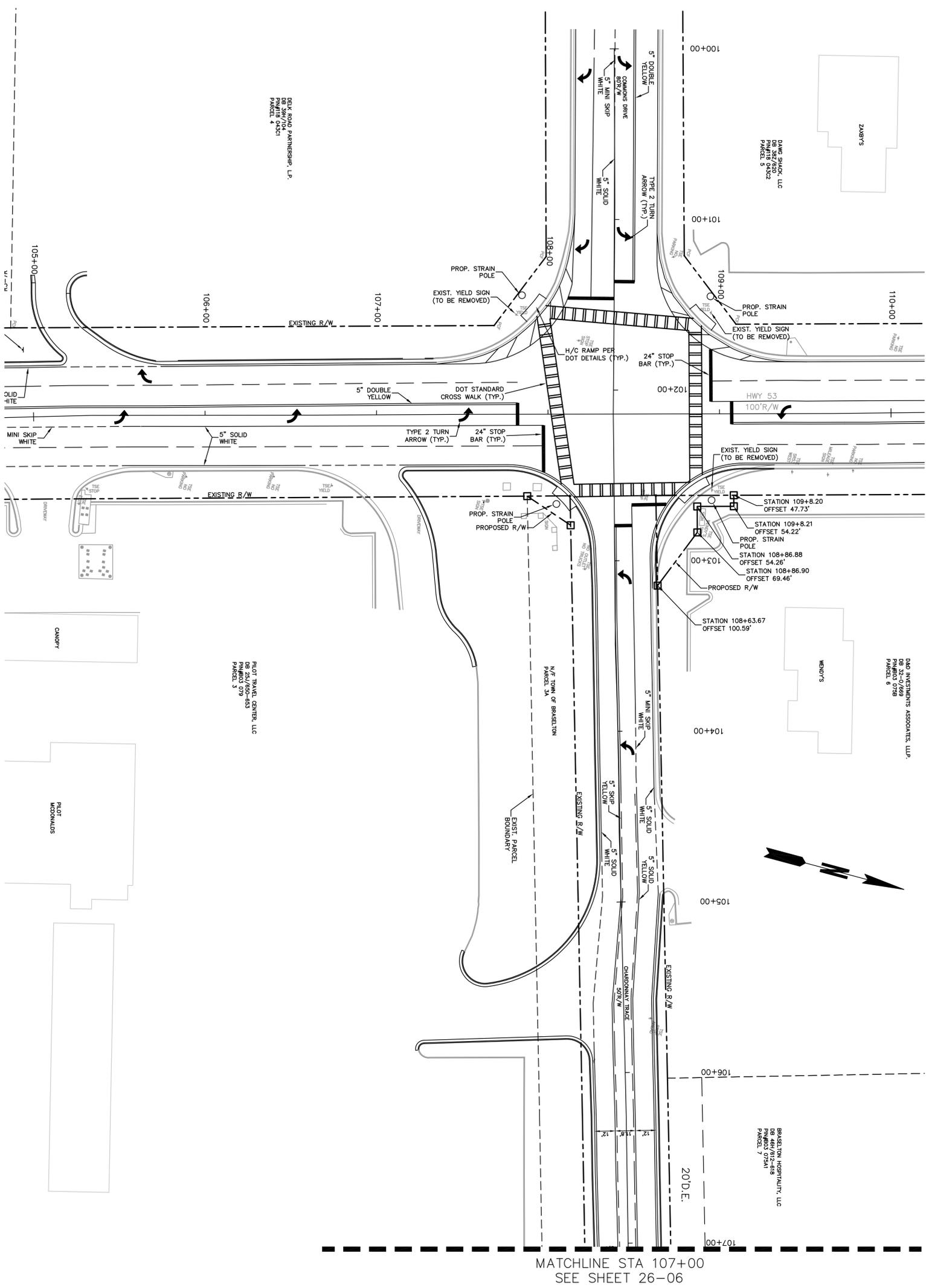
GRU

COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



MATCHLINE STA 107+00  
SEE SHEET 26-06

DEK ROAD PARTNERSHIP, L.P.  
DB 384/104  
PARCEL 3A

BRASELTON HOSPITALITY, LLC  
DB 32-0/669  
PARCELS 075A18  
PARCEL 7

DMO INVESTMENTS ASSOCIATES, LLP.  
DB 32-0/669  
PARCELS 075B  
PARCEL 8

PILOT TRAVEL CENTER, LLC  
DB 24/650-653  
DB 300 079  
PARCEL 3

PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0514  
FAX: 706-824-0519



REVISION DATES

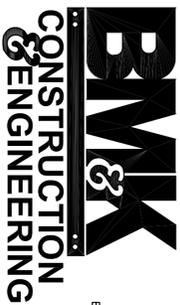
Town of Braselton

OFFICE:

SIGNING AND MARKING PLANS

CHARDONNAY TRACE

DRAWING No.  
26-05



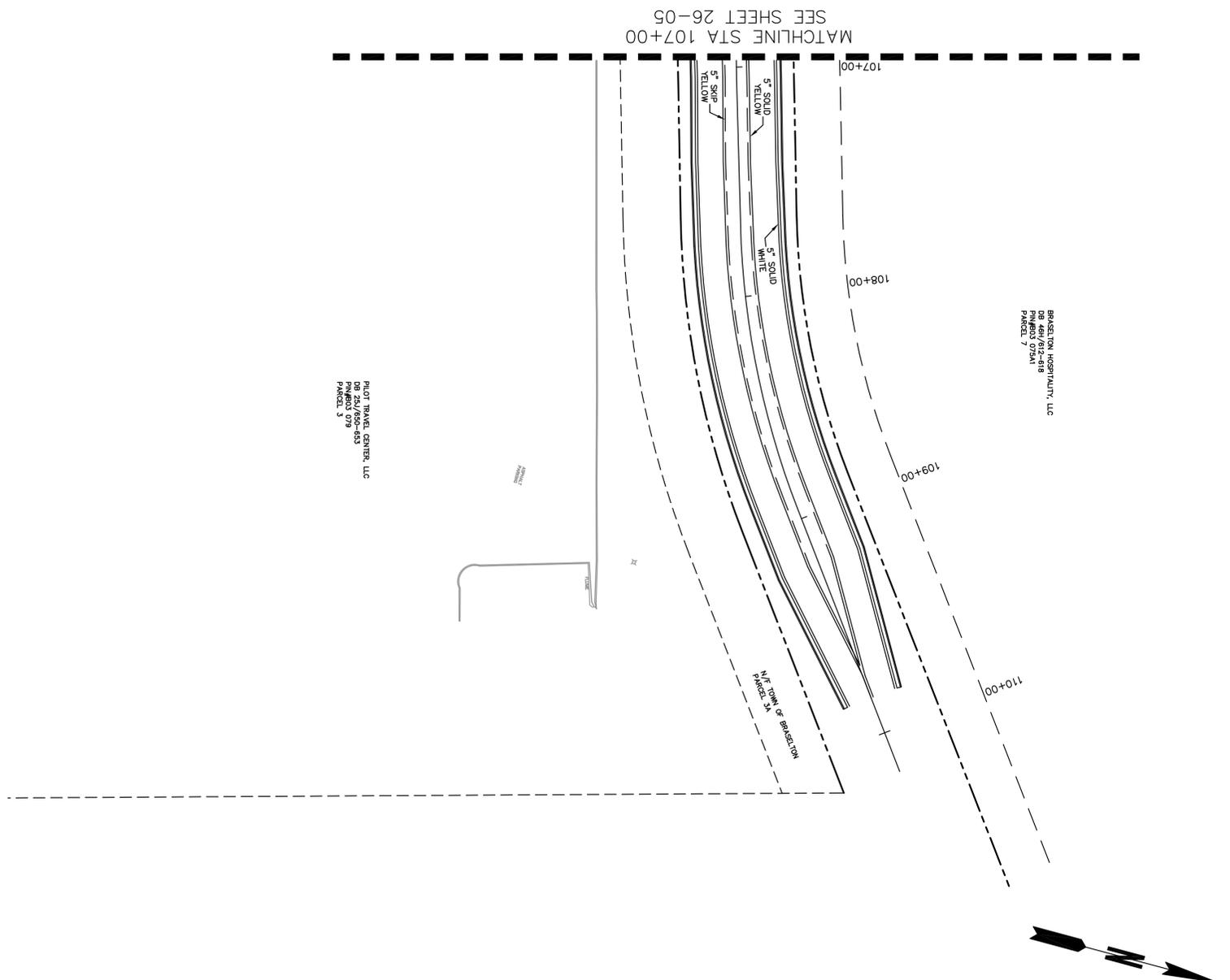
GRUN

COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



**BW&K**  
CONSTRUCTION  
& ENGINEERING

PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0914  
FAX: 706-824-0919

DRAWING NAME: I:\CUSTOMERS\_PROJECTS\210 Jackson County\210-12-111 SR 53 @ Braselton Pkwy\Traffic\DWG\SR 53 Signal Design.dwg PLOT DATE:3/26/2014 USER:CHRIS NASH

### OVERHEAD STREET NAME SIGNS

NOTE: SIGNS ARE NOT DIMENSIONED OR TO SCALE. CUT SHEETS PROVIDED BY CONTRACTOR FOR APPROVAL BY JACKSON COUNTY.

SR 53/Green St

D3-1 #1  
2 EA. REQ'D

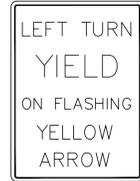
Braselton Pkwy

D3-1 #2  
1 EA. REQ'D

Braselton Pkwy

D3-1 #3  
1 EA. REQ'D

### REGULATORY SIGNS



R10-5A  
30" X 36"

### PEDESTRIAN SIGNS

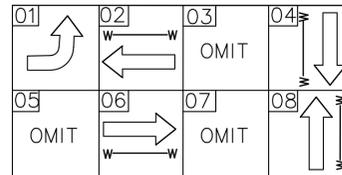


R10-3E(L)  
9" X 15"



R10-3E(R)  
9" X 15"

### PHASING DIAGRAM

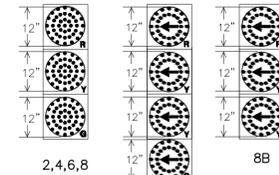


### LED PEDESTRIAN COUNTDOWN SIGNAL HEADS



P2,P4,P6,P8

### LED SIGNAL HEADS WITH REFLECTIVE BORDER ON BACKPLATES



2,4,6,8

8B

1



**BM&K CONSTRUCTION & ENGINEERING**  
PO BOX 878  
BRASELTON, GA 30517

No.	Date	Revision
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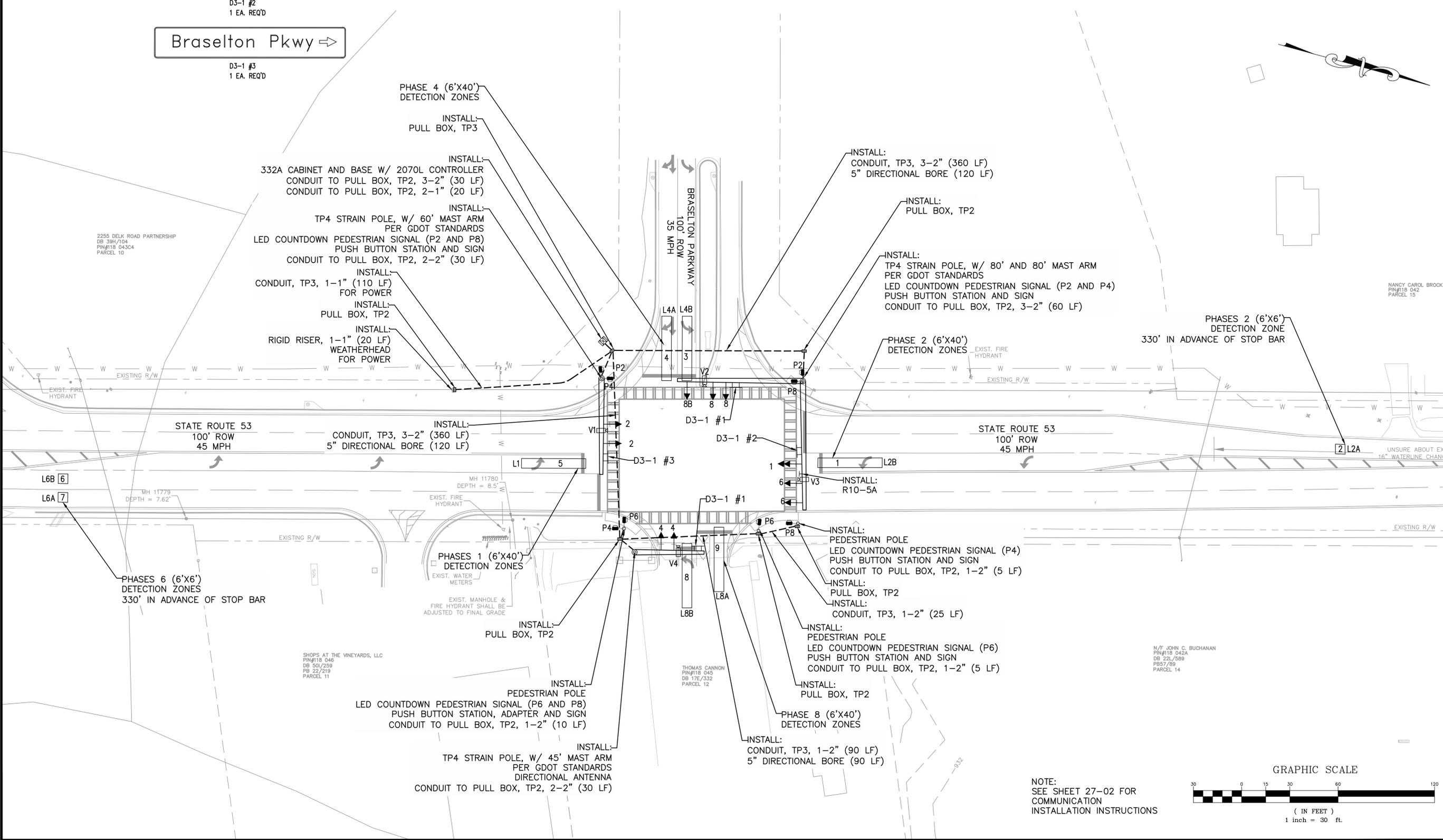


Project No. 210-12-111  
Designed By: BCM  
Drawn By: BCM  
Checked By: BAH  
Date: 03-26-2014  
Scale: 1"=30'

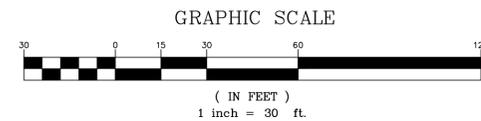
**SR 53 AT BRASELTON PARKWAY SIGNAL PLAN**  
N/F JOHN C. BUCHANAN  
PIN#118 042A  
DB 22/2589  
PB57/89  
PARCEL 14

27-01

210-12-111



NOTE:  
SEE SHEET 27-02 FOR  
COMMUNICATION  
INSTALLATION INSTRUCTIONS



DRAWING NAME: I:\CUSTOMERS\_PROJECTS\210 Jackson County\210-12-111 SR 53 @ Braselton Pkwy\Traffic\DWG\SR 53 Signal Designs.dwg PLOT DATE: 3/26/2014 USER: CHRIS NASH

**TRAFFIC SIGNAL GENERAL NOTES**

- THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, INCLUDING SUBSEQUENT PUBLISHED RULINGS.
- ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS FOR TRAFFIC SIGNAL INSTALLATION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR JACKSON COUNTY). INSTALLATION SHALL MEET CURRENT NFPA NATIONAL ELECTRICAL CODE AND ANSI NATIONAL ELECTRICAL SAFETY CODE.
- MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE SPECIAL PROVISIONS.
- CONTRACTOR SHALL SUBMIT LOAD CALCULATIONS, SHOP DRAWINGS AND FOUNDATION DIMENSIONS OF POLES AND CATALOG CUTS OF PROPOSED SIGNAL EQUIPMENT AND ELECTRICAL/LINE HARDWARE MATERIALS TO THE PROJECT ENGINEER FOR APPROVAL.
- FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.
- THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF 5 FEET) IN LOCATION OF NEW SIGNAL POLES, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS MUST BE RETAINED AS SHOWN ON THE PLANS.
- SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.
- THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATION(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.
- WHEN APPLICABLE TO THE PLANS, THE CONTRACTOR MUST INSTALL AND TEST ALL NEW SIGNAL ITEMS PRIOR TO REMOVING EXISTING SIGNALS FROM SERVICE.
- WHEN APPLICABLE TO THE PLANS, CONTRACTOR WILL BE REQUIRED TO PROVIDE A NEW RISER, CONDUIT, CONDUCTORS AND DISCONNECT TO PROVIDE POWER SERVICE INTO THE CONTROLLER CABINET.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING POLES WHEN ATTACHING SPAN WIRE OR FIBER OPTIC INTERCONNECT CABLE TO THE POLES, WHEN REQUIRED, AS DIRECTED BY THE ENGINEER.
- ENSURE DETECTION IS INSTALLED PROMPTLY. FAILURE TO DO SO WILL RESULT IN ASSESSMENT OF LIQUIDATED DAMAGES IN ACCORDANCE WITH SECTION 150.08 OF THE SPECIFICATIONS.
- CONDUIT UNDER DRIVEWAYS AND ROADWAYS SHALL BE TYPE 3 (SDR 11 HDPE), RIGID METAL OR ENCASED IN CONCRETE. ALL CONDUIT RUNS GREATER THAN 50 FEET IN LENGTH SHALL BE BURIED TO A MINIMUM DEPTH OF 48 INCHES. UNLESS APPROVED BY THE ENGINEER.
- SIGNAL HEADS SHALL HAVE BACK PLATES WITH REFLECTIVE BORDERS.
- VEHICLE AND PEDESTRIAN SIGNAL HEADS AND HARDWARE SHALL BE ALL BLACK IN COLOR. VEHICLE SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND SHALL BE MADE OF POLYCARBONATE MATERIAL. VEHICLE SIGNAL HEADS SHALL BE EQUIPPED WITH LED MODULES.
- PEDESTRIAN SIGNAL HEADS ATTACHED TO PEDESTAL POLES AND STEEL STRAIN POLES SHALL BE MOUNTED WITH "CLAMSHELL" TYPE BRACKET ASSEMBLIES. ALL PEDESTRIAN SIGNAL HEADS ATTACHED TO CONCRETE STRAIN POLES SHALL BE MOUNTED WITH ONE-WAY SIDE-OF-POLE ALUMINUM BRACKETS. PEDESTRIAN SIGNAL HEADS SHALL BE EQUIPPED WITH COUNTDOWN, UNIFORM APPEARANCE, FULL HAND/MAN/NUMERAL LED MODULES.
- PUSHBUTTON STATIONS THAT ARE INSTALLED ON A PEDESTAL POLE FOR TWO PERPENDICULAR CROSSINGS SHALL BE MOUNTED ON A DOUBLE PUSHBUTTON STATION ADAPTER. PEDESTRIAN PUSHBUTTONS SHALL BE INSTALLED WITHIN 10" OF SIDEWALK WITH SIGN ARROW INDICATING THE CROSSING DIRECTION. PEDESTRIAN PUSHBUTTONS SHALL BE VANDAL RESISTANT WITH A PIEZO SWITCH, LED INDICATION AND AUDIBLE FEEDBACK.
- CONTROLLER SHALL INCLUDE 5-VOLT 2 MB DATA KEY AND SHALL HAVE THE CURRENT GDOT LICENSE INTERSECTION SOFTWARE INSTALLED AND OPERATIONAL.

**OVERHEAD STREET NAME SIGNS**

NOTE: SIGNS ARE NOT DIMENSIONED OR TO SCALE. CUT SHEETS PROVIDED BY CONTRACTOR FOR APPROVAL BY JACKSON COUNTY.

SR 53/Green St

D3-1 #1  
2 EA. REQ'D

Braselton Pkwy

D3-1 #2  
1 EA. REQ'D

Braselton Pkwy

D3-1 #3  
1 EA. REQ'D

LOCATION	SIGNS-TYPE 2 MAT'L (0.10) REFL. SHEETING. TP 9			
	CODE	SIZE	QUAN.	SQ.FT.
SR 53/GREEN ST	D3-1 #1	102" x 18"	2	12.75
BRASELTON PKWY	D3-1 #2	102" x 18"	1	12.75
BRASELTON PKWY	D3-1 #3	102" x 18"	1	12.75
TOTALS			4	51.00

**332 CABINET INPUT ASSIGNMENT**

SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
<b>UPPER INPUT FILE (I)</b>															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	
	CARD	2-CH	2-CH				2-CH					DC ISO	DC ISO	DC ISO	
CHANNEL 1	CI PIN	56	39	63	47	58	41	65	49	60		80	67	68	81
	FUNCTION	L1	L2A				L4A						P2	P6	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10			TB8 4,6	TB8 7,9	N/C
CHANNEL 2	CI PIN	56	43	76	47	58	45	78	49	62		53	69	70	82
	FUNCTION		L2B				L4B						P4	P8	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12			TB8 5,6	TB8 8,9	N/C
<b>LOWER INPUT FILE (J)</b>															
	TYPE	DET	DET	DET	DET	DET	DET	DET	DET	TBA	TBA	DC	DC	DC	
	CARD		2-CH				2-CH								
CHANNEL 1	CI PIN	55	40	64	48	57	42	66	50	59		54	71	72	51
	FUNCTION		L6A				L8A								
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10			TB9 4,6	TB9 7,9	TB9 10,12
CHANNEL 2	CI PIN	55	44	77	48	57	46	79	50	61		75	73	74	52
	FUNCTION		L6B				L8B								
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12			TB9 5,6	TB9 8,9	TB9 11,12

MATERIALS FOR COMMUNICATION SYSTEM	UNIT	QUAN.
MICROHARD N920F-ENC 900 MHz RADIO	EA	3
10 dBi, 900 MHz DIRECTIONAL(YAG) ANTENNA W/ MOUNTING BRACKET, CABLE, AND SURGE SUPPRESSION	EA	4
MICROHARD ANTENNA POWER SPLITTER	EA	1

**COMMUNICATION SYSTEM NOTES**

- ONE MICROHARD N920F-ENC RADIO SHOULD BE INSTALLED AT THE FOLLOWING INTERSECTIONS:  
  
S.R. 53 @ BRASELTON PARKWAY  
  
S.R. 53 @ CHARDONNAY TRACE  
  
S.R. 53 @ I-85 WESTBOUND RAMP
- TWO DIRECTIONAL ANTENNAS AND MICROHARD ANTENNA POWER SPLITTER IS TO BE INSTALLED ON THE SOUTHWEST CORNER STRAIN POLE AT THE S.R. 53 @ CHARDONNAY TRACE INTERSECTION. THE ANTENNAS ARE TO BE AIMED TOWARDS THE ADJACENT INTERSECTIONS.
- ONE DIRECTIONAL ANTENNA IS TO BE INSTALLED ON THE SOUTHEAST CORNER STRAIN POLE AT THE INTERSECTION OF S.R. 53 @ BRASELTON PARKWAY. THE ANTENNA SHOULD AIM TOWARDS THE S.R. 53 @ CHARDONNAY INTERSECTION.
- ONE DIRECTIONAL ANTENNA IS TO BE INSTALLED ON THE NORTHEAST CORNER STRAIN POLE AT THE INTERSECTION OF S.R. 53 @ I-85 WESTBOUND RAMP. THE ANTENNA SHOULD AIM TOWARDS THE S.R. 53 @ CHARDONNAY INTERSECTION.

**LIST OF MATERIALS FOR INFORMATIONAL PURPOSES ONLY S.R. 53 @ BRASELTON PARKWAY**

MATERIALS	UNIT	QUANTITY
CONTROLLER CABINET ASSEMBLIES		
CONTROLLER UNIT, MODEL 2070L	EA	1
CABINET ASSEMBLY, MODEL 332A	EA	1
PREFABRICATED CONTROLLER CABINET BASE	EA	1
SWITCH PACK	EA	11
DC ISOLATOR	EA	3
2010 CONFLICT MONITOR, EXTENDED FEATURES	EA	1
SIGNAL CABLE (14 AWG), 7 CONDUCTOR, PER 1000 FT	RL	1
SIGNAL CABLE (14 AWG), 3 CONDUCTOR, PER 1000 FT	RL	1
LOOP/PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT); 3 PAIR, 18 AWG	RL	1
ONE-WAY, 3 SECTION, 12" TRAFFIC SIGNAL HEAD, PLASTIC, W/ LEDS	EA	9
ONE-WAY, 4 SECTION, 12" TRAFFIC SIGNAL HEAD, PLASTIC, W/ LEDS	EA	1
ONE-WAY, 1-SECTION, 18" PEDESTRIAN COUNTDOWN SIGNAL HEAD, PLASTIC, W/LEDS, HAND/MAN OVERLAP, SIDE BY SIDE	EA	8
REFLECTIVE BACKPLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD (VACUUM FORMED ABS)	EA	9
REFLECTIVE BACKPLATE FOR ONE-WAY, 4-SECTION, 12" SIGNAL HEAD (VACUUM FORMED ABS)	EA	1
HARDWARE FOR SIDE-OF-POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY; CONCRETE, TIMBER, STEEL POLE	EA	4
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	1
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	2
PEDESTRIAN PUSH BUTTON STATION, W/BUTTON AND SIGN, 9"x15", R10-3E (L)EFT OR (R)IGHT, COUNTDOWN	EA	8
PEDESTRIAN PUSH BUTTON STATION ADAPTER	EA	1
HARDWARE FOR MAST ARM MOUNTING	EA	19
10' PEDESTAL POLE & SQUARE BASE	EA	3
PULL BOX, PB-2	EA	5
PULL BOX, PB-3	EA	1
CONDUIT, TP2, 1"	LF	20
CONDUIT, TP2, 2"	LF	170
CONDUIT, TP3, 1"	LF	110
CONDUIT, TP3, 2"	LF	835
RIGID RISER, 1"	LF	20
WEATHERHEAD	EA	1
SIGN, R10-5A	EA	1
MATERIALS FOR COMMUNICATION SYSTEM	LS	1
MATERIALS FOR VIDEO DETECTION SYSTEM	LS	1
MISC. MATERIALS TO COMPLETE	LS	1
OVERHEAD STREET NAME SIGNS	LS	1
<b>PAY ITEMS</b>		
647-1000 TRAFFIC SIGNAL INSTALLATION	LS	LS
615-1200 5" DIRECTIONAL BORE	LF	330
639-3004 STEEL STRAIN POLE, TP IV, W/ 45' MAST ARM	EA	1
639-3004 STEEL STRAIN POLE, TP IV, W/ 60' MAST ARM	EA	1
639-3004 STEEL STRAIN POLE, TP IV, W/ 80' MAST ARM & 80' MAST ARM	EA	1



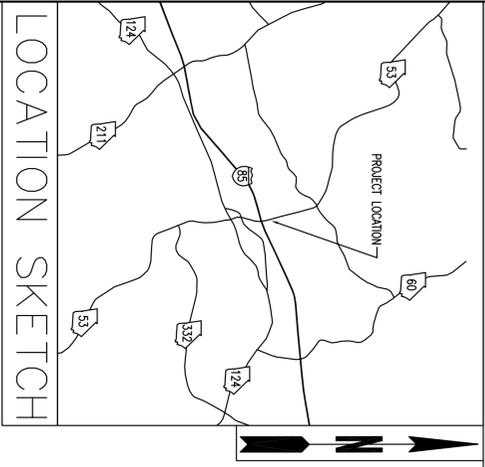
No.	Revision	Date
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Project No. 210-12-111  
 Designed By: BCM  
 Drawn By: BCM  
 Checked By: BAH  
 Date: 03-26-2014  
 Scale: NTS

**SR 53 AT BRASELTON PARKWAY SIGNAL PLAN**  
 SR 53 BRASELTON, GA 30617  
 JACKSON COUNTY

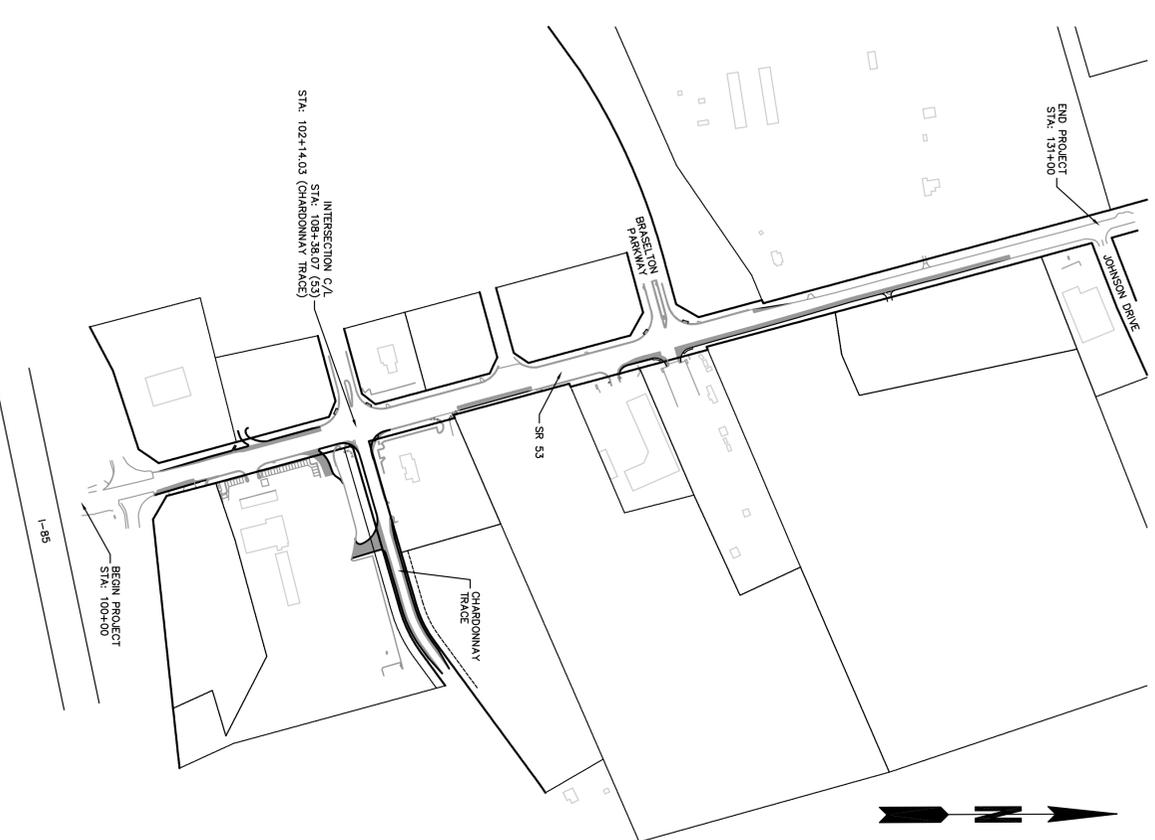






# TOWN OF BRASELTON

## EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN FOR STATE ROUTE 53 WIDENING LOCATED IN PORTER DISTRICT G.M.D. #1765



I, certify under penalty of law that this plan was prepared after a site visit to the locations described herein by myself or my authorized agent, under my supervision.

I, certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all identified perennial or intermittent and other water body' is not proposed to be so altered, and (b) the professional judgment, utilizing the factors required in the General NPDES Permit No. GAR 100002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of the receiving water body.

I, certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document Manual for Erosion and Sediment Control in Georgia (Manual) the Department of Environmental Protection. The Manual provides for the design of the storm water control and the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100002."

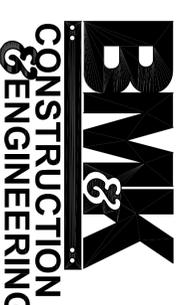
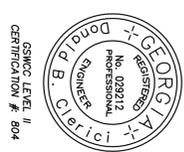
By: \_\_\_\_\_ Date: \_\_\_\_\_

THE DESIGN PROFESSIONAL WHO PREPARED THE ESRPC PLAN IS  
DONALD B. CLERICI, JR.  
Professional Engineer  
No. 029212  
LEVEL II CERTIFIED DESIGN PROFESSIONAL  
LEVEL II CERTIFICATION # 804

PRIMARY PERMITTEE:  
OWNER: TOWN OF BRASELTON  
ENGINEER DES: TOWN MANAGER  
8922 HWY 53 30517  
PHONE: 706-654-5720

24-HOUR LOCAL CONTACT:  
NAME: MR. DON CLERICI, PE  
COMPANY: BM&K, INC.  
PHONE: 706-654-5803

PLANS PREPARED BY \_\_\_\_\_



PO BOX 878  
BRASELTON, GA 30517  
BUSINESS: 706-654-0914  
FAX: 706-654-0919

LOCATION AND DESIGN APPROVAL DATE

PLANS DATE: 10/11/13

REVISION DATES:	PER COMMENTS:	GA EPD
3/21/14		

**ESPC 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, or concurrent with, 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:**

The Erosion, Sedimentation, and Pollution Control Plan (ESPC) addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage construction from that shown on the plan, the Contractor shall submit a written request for a plan alteration to the Engineer. 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. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPC and signature of a GSWCC level-I-certified design professional. Additional BMP's may be added per Special Provision 161 – Control of Soil Erosion and Sedimentation.

**TEMPORARY MULCHING**

EPD General Permit GAR 100002 states that "Any disturbed area left exposed for a period of greater than 14 days shall be stabilized with mulch or temporary seeding." – However, typically disturbed areas are to be stabilized every 7 days. The construction documents, special provisions, or specification may require mulching more often than 7 days.

**VEGETATION AND PLANTING SCHEDULE**

All temporary and permanent vegetative practices including plant species, planting date, and planting methods shall be detailed in the final site plan for Section 700 of the current edition of the GDOT specifications and other applicable contract documents, special provisions, or landscaping plans.

**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 with the NOI. A copy of the construction schedule shall be maintained at the project site. Stage descriptions provided in the narrative below represent activities proscribed in the individual erosion control stages.

**STAGE 1:**

Placement of perimeter erosion control barrier prior to commencement of any clearing and grubbing activities. Land disturbing activities shall only occur after the appropriate BMP's have been installed.

**STAGE 2:**

Construction activities detailed in the construction plans. This includes grading, drainage, curb and gutter, and paving. Throughout Stage 2, temporary erosion control measures shall be installed and maintained as depicted by the BMP installation details.

**STAGE 3: Final grading, mulling, and other miscellaneous items.**

Removal and proper clean up of temporary erosion control. Final placement of permanent erosion control items as detailed in Stage 3 BMP Location Details.

**PETROLEUM STORAGE, SPILLS, AND LEAKS:**

The plans provided herein do not anticipate the storage of petroleum products onsite. The Contractor shall at a minimum provide an action plan and keep the necessary material on site for the capture and disposal of any petroleum product leaks or spills associated with the servicing, refueling, or operation of any equipment utilized in the work. A copy of the actions plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with this 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 and ESPC addendum that addresses the additional BMP's needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR 100002 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:**  
 A project specific soil survey was not performed for this project. The NRCS soil survey and soil series maps for the project area are available on the internet at: <http://websoilsurvey.nrcs.usda.gov/app>

**POST CONSTRUCTION BMP'S:**

All permanent, post construction BMP's are shown in the ESPC plan. The post-construction BMP's for this project may consist of permanent detention ponds, vegetation, rip-rap at pipe outlets for velocity, channel and outlet stabilization, vegetated swales/ditches where practical, channel/ditch stabilization with turf reinforcing mats, rip-rap and concrete ditch lining where necessary. The post-construction BMP's will provide permanent stabilization of the site and accelerated transportation of sediment and pollutants into receiving waters.

**SILT FENCE INSTALLATION WITH J-HOOKS AND SPURS:**

Silt fence should never 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, or configuration, is commonly referred to as 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 that are subject to erosion. The silt fence should be installed in a manner that details for silt fences/hailed straw spacing of J-hooks shall not be less than 50 feet except as noted. Silt fences that are near the outlet of culverts, cross drains, and storm drains shall have a minimum of 3 J-hooks on both sides of the structure at spacing not to exceed 30 feet. J-hooks shall be paid for as silt fence items per foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

**MAINTENANCE AND STABILIZATION MEASURES:**

See Special Provision 61 and 700 and other contract documents for maintenance and stabilization 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. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

**INSPECTIONS:**

All inspections shall be documented on the appropriate inspection forms. See Special Provision 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required in the contract documents and NPDES permit shall result in the cessation of all construction activities with the exception of traffic control and erosion control. Continued failure to perform inspections shall result in non-fundable deductions as specified in the contract documents.

By agreement with Georgia EPD, the Construction Project Engineer will be responsible for seven day inspections required for new BMP installations.

**NON-STORM WATER 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, Standards, and contract documents.

**DE-WATERING ACTIVITIES AND USE OF PUMPS:**

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bog or shall be treated equivalently with suitable BMP's. The contractor shall ensure that post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of their pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR 100002 NPDES permit 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 ESPC and ensure and demonstrate compliance with applicable state and/or local waste disposal, sanitary sewer or septic system, and petroleum storage system requirements.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the GDOT specifications.

**SEDIMENT STORAGE:**

The following table summarizes the required and available sediment storage for every outfall on this project. The contractor shall provide and maintain the storage volumes for BMP's specified in this table.

Sediment storage codes: Disturbed area + area draining to disturbed area. These areas do not include the area that is part of the basin but does not drain across the disturbed area.

Total Drainage Area A (Drainage to disturbed areas): 6.99 Acres

Total Sediment Storage Required: 468 C.Y.

Total Sediment Storage Provided (Silt Fence): 83 C.Y.

Total Sediment Storage Provided (SD3): 469 C.Y.

Total Sediment Storage Provided (Check Dam): 6 x 3 C.Y. = 18 C.Y.

Total Sediment Storage Provided (Sediment Traps): 5 C.Y.

Total Drainage Area B (Drainage to disturbed areas): 0.26 Acres

Total Sediment Storage Required: 17.4 C.Y.

Total Sediment Storage Provided (Silt Fence): 9.8 C.Y.

Total Sediment Storage Provided (Check Dam): 2 x 3 C.Y. = 6 C.Y.

Total Drainage Area C (Drainage to disturbed areas): 0.14 Acres

Total Sediment Storage Required: 9.4 C.Y.

Total Sediment Storage Provided (Silt Fence): 8.8 C.Y.

Total Drainage Area D (Drainage to disturbed areas): 0.25 Acres

Total Sediment Storage Required: 16.8 C.Y.

Total Sediment Storage Provided (Silt Fence): 13.7 C.Y.

Total Drainage Area E (Drainage to disturbed areas): 0.63 Acres

Total Sediment Storage Required: 42.2 C.Y.

Total Sediment Storage Provided (Silt Fence): 27.3 C.Y.

Total Drainage Area F (Drainage to disturbed areas): 0.68 Acres

Total Sediment Storage Required: 45.6 C.Y.

Total Sediment Storage Provided (Silt Fence): 26.3 C.Y.

Total Drainage Area G (Drainage to disturbed areas): 0.09 Acres

Total Sediment Storage Required: 6.0 C.Y.

Total Sediment Storage Provided (Silt Fence): 7.6 C.Y.

Total Drainage Area H (Drainage to disturbed areas): 0.94 Acres

Total Sediment Storage Required: 63.0 C.Y.

Total Sediment Storage Provided (Silt Fence): 38 C.Y.

Total Sediment Storage Provided (Sediment Traps): 25 C.Y.

Total Drainage Area I (Drainage to disturbed areas): 0.18 Acres

Total Sediment Storage Required: 12.1 C.Y.

Total Sediment Storage Provided (Silt Fence): 11.8 C.Y.

Total Sediment Storage Provided (Sediment Traps): 5 C.Y.

INSPECTIONS: All inspections shall be documented on the appropriate inspection forms. See Special Provision 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required in the contract documents and NPDES permit shall result in the cessation of all construction activities with the exception of traffic control and erosion control. Continued failure to perform inspections shall result in non-fundable deductions as specified in the contract documents.

By agreement with Georgia EPD, the Construction Project Engineer will be responsible for seven day inspections required for new BMP installations.

NON-STORM WATER 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, Standards, and contract documents.

DE-WATERING ACTIVITIES AND USE OF PUMPS: Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bog or shall be treated equivalently with suitable BMP's. The contractor shall ensure that post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of their pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR 100002 NPDES permit 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 ESPC and ensure and demonstrate compliance with applicable state and/or local waste disposal, sanitary sewer or septic system, and petroleum storage system requirements.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the GDOT specifications.

SEDIMENT STORAGE: The following table summarizes the required and available sediment storage for every outfall on this project. The contractor shall provide and maintain the storage volumes for BMP's specified in this table.

TOTAL AREA: 2.55 ACRES  
 DISTURBED AREA: 2.55 ACRES

**CONSTRUCTION SCHEDULE**

EROS CONTROL MEASURE	JUNE 2012	JULY 2012	AUGUST 2012	SEPTEMBER 2012	OCTOBER 2012	NOVEMBER 2012
INSTALLATION OF CONSTRUCTION SEDIMENT TRAPS, & PERIMETER SILT FENCE	█					
CLEARING AND GRUBBING		█	█	█	█	█
PRELIMINARY GRADING		█	█	█	█	█
INSTALLATION OF GRADING PHASE EROSION MEASURES, STRIPED SOIL NESTAL STORM DRAIN.		█	█	█	█	█
INSTALLATION OF SEE			█	█	█	█
PINE ROAD			█	█	█	█
PINE GRADING			█	█	█	█
FINAL LANDSCAPING - PERMANENT EROSION MEASURES			█	█	█	█
PERMANENT EROSION MEASURES			█	█	█	█
MAINTAIN EROSION CONTROL MEASURES			█	█	█	█

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

**DESIGN PROFESSIONAL 7-DAY VISIT CERTIFICATION:**

I CERTIFY THAT THE SITE WAS IN COMPLIANCE WITH THE ESPC PLAN ON THE DATE OF INSPECTION.

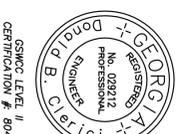
By: \_\_\_\_\_ Date: \_\_\_\_\_

THE DESIGN PROFESSIONAL WHO PREPARED THE ESPC PLAN IS DONALD B. CLERK, JR. Registered Professional Engineer

INSPECTION REVEALED THE FOLLOWING DISCREPANCIES IN THE ESPC PLAN.

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

\*THESE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULE WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.



GSWCC LEVEL II CERTIFICATION # 804

**REVISION DATES**

REVISION DATES	GA EPD COMMENTS	OFFICE:
3/21/14		Town of Braselton

**BMP GENERAL NOTES**

SR 53 WIDENING

DRAWING NO. 51-01



PO BOX 878  
 BRASELTON, GA 30917  
 BUSINESS: 706-824-0514  
 FAX: 706-824-0519

MONITORING GENERAL NOTES:  
 Representative sampling may be utilized on this project. The characteristics of the individual watersheds along the project corridor have been carefully evaluated and compared on the basis of drainage characteristics, watershed size, land disturbance and earth work. After evaluation of these items as presented in the Appendix B Rationale for Outfall Sampling Points, the following sampling points were established. The location, depth, and pollution control pit size has been determined, and erosion sedimentation and pollution control pits will be representative of that the increase in turbidity at the specified locations will be representative of the increase in turbidity for all waters leaving the site.

APPENDIX B RATIONALE FOR OUTFALL SAMPLING POINTS:

- Sampling Location #1: Station 109+86, Offset 11.6' Rt (Chardonnoy Trace)  
 Type: Outfall of gutter  
 Waters supporting warm water fisheries  
 Site size: 2.55 acres  
 Surface water drainage area: 0.13 square miles  
 NTU value: 75
- Sampling Location #2: Station 122+71, Offset 540' Rt (SR 53)  
 Type: Outfall of gutter  
 Waters supporting warm water fisheries  
 Site size: 2.55 acres  
 Surface water drainage area: 0.11 square miles  
 NTU value: 75
- Sampling Location #3: Station 105+83, Offset 72' Lt (SR 53)  
 Type: Outfall of pipe  
 Waters supporting warm water fisheries  
 Site size: 2.55 acres  
 Surface water drainage area: 0.08 square miles  
 NTU value: 75

MONITORING, SAMPLING METHODS, AND PROCEDURES:

See special provision 167 and other contract documents for Monitoring, Sampling Methods, and Procedures.

RETENTION OF RECORDS:

The town will retain records in accordance with Part IV.F of the General Permit GAR 100002.

READY MIX CHUTE WASH-DOWN:

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of portland cement concrete is prohibited on the site, in accordance with standard specification (02) "Legal Regulations and Responsibility to the Public, and the contractor shall be responsible for providing the necessary equipment and personnel to wash concrete trucks and equipment. The contractor shall provide a ready mix chute wash-down station on the site. The station shall be located on the right-of-way, including shoulders, for a wash/pit area. The pit shall be large enough to store all wash-down water without overflowing the pit. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Town's Project Engineer. Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water from a storm drain. Establish a wash-down station on the site. The station shall include a concrete curb, a catchment basin, a storm drain, and a pit. The pit shall be accessible to the vehicle being used for wash-down. 3. The pit has enough volume for wash-down water and 4. permission has been granted to use the area for wash-down. On some sites, you may not have permission or access to a location which allows for a wash-down pit. In such cases, the Contractor may have to wash-down into a wheelbarrow or other container and carry the container for transport to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down."

ALTERNATIVE BMP'S

Alternative BMP's are not used on this project.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

**"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH 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. Practices will be checked daily.  
 Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.  
**ALL CLEARING, GRADING, DRAINAGE, AND CONSTRUCTION SHALL BE CONDUCTED IN STRICT ACCORDANCE TO THE PLAN.**  
**\* AMENDMENTS TO THE ES&PC PLAN THAT HAVE A SIGNIFICANT IMPACT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.**  
**\* WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.**

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

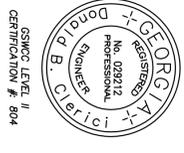
INFRASTRUCTURE CONSTRUCTION PROJECTS  
 SMCOD: Deane River  
 Address: SR 53 from L&S to Johnson Drive  
 Date on Plans: 10/11/13

TO BE SHOWN ON ES&PC PLAN

Plan Page #	Included	Y/N	Notes
ES1-01	Y	Y	1. The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1, 2010, shall be included in the ES&PC Plan. If the checklist activity was permitted, the checklist shall be included in the ES&PC Plan. <b>(This completed Checklist must be submitted with the ES&amp;PC Plan or the Plan will not be reviewed)</b>
ES1-02	Y	Y	2. <b>(Signature, seal and level)</b> It number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed.
ES1-03	Y	Y	3. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
ES1-04	Y	Y	4. Provide name, address and phone number of primary permittee.
ES1-05	Y	Y	5. Note total and distributed acreage of the project or phase under construction.
ES1-06	Y	Y	6. Provide land use and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.
ES1-07	Y	Y	7. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phases, if necessary.
ES1-08	Y	Y	8. Graphic scale and north arrow.
ES1-09	Y	Y	9. Existing contours 1:500 Contour Interval
ES1-10	Y	Y	10. Proposed contours 1:250 Topographic
ES1-11	Y	Y	11. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
ES1-12	Y	Y	12. Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the local issuing authority. Clearly note and delineate all areas of impact.
ES1-13	Y	Y	13. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*
ES1-14	Y	Y	14. Storm drain pipe and weir, vehicles with appropriate outlet protection to accommodate discharges without erosion.
ES1-15	Y	Y	15. Soil series for the project site and their delineation.
ES1-16	Y	Y	16. Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
ES1-17	N	N	17. Any construction activity which discharges storm water has an Impaired Stream Segment, or within 1 linear mile upstream of and within the completed Appendix I listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
ES1-18	N	N	18. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 18 above) at least six months prior to substantial of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
ES1-19	Y	Y	19. Delineate on-site drainage and off-site watersheds using USGS 1" : 25000' topographical sheets.
ES1-20	Y	Y	20. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
ES1-21	Y	Y	21. The limits of disturbance for each phase of construction.
ES1-22	Y	Y	22. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, temporary detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written rationale explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not attainable. The design professional shall certify that the design professional has reviewed the design and construction details and that the design professional is satisfied with the design and construction details. The design professional shall certify that the design professional has reviewed the design and construction details and that the design professional is satisfied with the design and construction details.
ES1-23	Y	Y	23. Use of alternative BMP's whose performance has been documented to be equivalent to or superior to conventional BMP's as certified by a Design Professional (unless disapproved by EPA or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at <a href="http://www.dasrc.com">www.dasrc.com</a> .
ES1-24	Y	Y	24. Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust.
ES1-25	Y	Y	25. BMP's for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
ES1-26	Y	Y	26. Provide BMP's for the remediation of all petroleum spills and leaks.*
ES1-27	Y	Y	27. Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
ES1-28	Y	Y	28. Description of the nature of construction activity.
ES1-29	Y	Y	29. A description of appropriate controls and measures that will be implemented at the construction site including: (1) Initial sediment storage requirements and perimeter control BMP's, (2) intermediate grading and drainage BMP's, and (3) final BMP's.*
ES1-30	Y	Y	30. Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMP's, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
ES1-31	Y	Y	31. Description of the practices that will be used to reduce the pollutants in storm water discharges.*

DESCRIPTION OF THE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER THAT WILL OCCUR WHILE CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.

ES1-01	Y	Y	32. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur while construction operations have been completed.*
ES1-01	Y	Y	33. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC plan as stated on page 14 of the permit.
ES1-01	Y	Y	34. Design professional's certification statement and signature that the permittees, ES&PC Plan provides for an appropriate BMP's performance system of BMP's and sampling to meet permit requirements as stated on page 14 of the permit.*
ES1-01	Y	Y	35. Certification statement and signature of the permittee or the duly authorized representative as stated in section V.G.2.d of the state general permit.*
ES1-02	Y	Y	36. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
ES1-02	Y	Y	37. Indication that non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation without first acquiring the necessary variance and permits.
ES1-01	Y	Y	38. Indication that the design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMP's within 7 days after installation.*
ES1-02	Y	Y	39. Indication that amendments/revisions to the ES&PC Plan which have a significant effect on BMP's with a hydraulic component must be certified by the design professional.*
ES1-02	Y	Y	40. Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.*
ES1-01	Y	Y	41. Documentation that the ES&PC Plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations during and after construction activities have been completed.*
ES1-03	Y	Y	42. Provide complete requirements of inspections and record keeping by the primary permittee.*
ES1-03	Y	Y	43. Provide complete requirements of sampling frequency and reporting of sampling results.*
ES1-03	Y	Y	44. Provide complete details for retention of records as per Part IV.F. of the permit.*
ES1-03	Y	Y	45. Description of analytical methods to be used to collect and analyze the samples from each location.*
ES1-02	Y	Y	46. Appendix B rationale for outfall sampling points where applicable.*
ES1-02	Y	Y	47. Clearly note statement in bold letters: "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, or concurrent with, land disturbing activities."*
ES1-02	Y	Y	48. Clearly note maintenance statement in bold letters: "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."*
ES1-01	Y	Y	49. Clearly note the statement in bold letters: "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."*
ES1-01	Y	Y	50. Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
ES1-01	Y	Y	51. Provide vegetative plan, noting all temporary and permanent vegetative practices, include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geospatial region. Design date: January 1, 2013



REVISION DATES

DATE	REVISION
3/21/14	GA EPD COMMENTS

OFFICE: Town of Braselton  
 BMP GENERAL NOTES

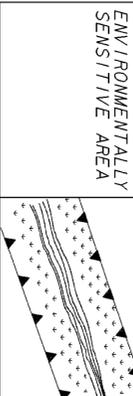
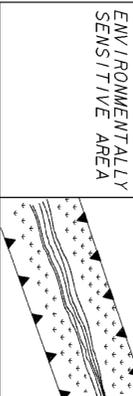
SR 53 WIDENING

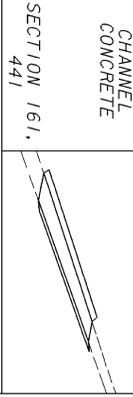
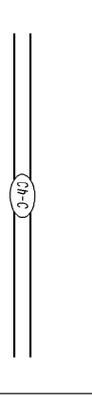
DRAWING NO. 51-02

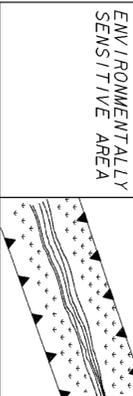
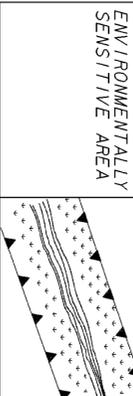


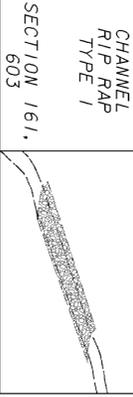
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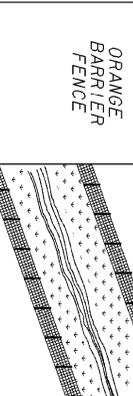
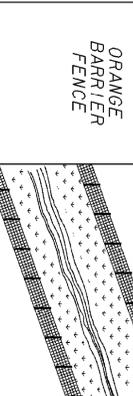
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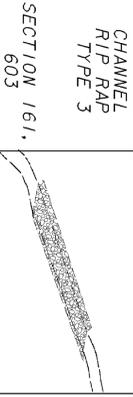
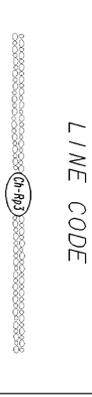
Bf	ENVIRONMENTALLY SENSITIVE AREA		ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESA AREAS INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, ARCHAEOLOGICAL SITES, HISTORIC SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. 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.
	SYMBOL		

Ch-C	CHANNEL CONCRETE		THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE DITCH FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM OF QUANTITIES SHEETS
	SECTION 161, 441		

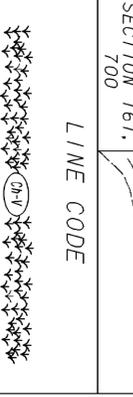
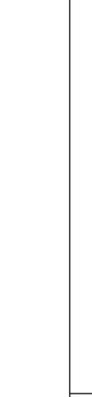
ESA	ENVIRONMENTALLY SENSITIVE AREA		ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESA AREAS INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, ARCHAEOLOGICAL SITES, HISTORIC SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. 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		

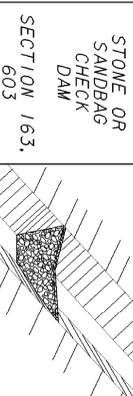
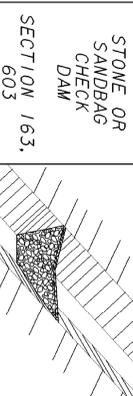
Ch-Rp1	CHANNEL RIP RAP TYPE 1		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP RAP SHALL PROTECT THE DITCH FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED ALONG THIS CHANNEL SUCH AS Sd1-C, Rdc OR Sg.
	SECTION 161, 603		

Orange Barrier Fence	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ESA AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
	LINE CODE		

Ch-Rp3	CHANNEL RIP RAP TYPE 3		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 DITCH FLOWING TO A DEPTH *Dp* RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED ALONG THIS CHANNEL SUCH AS Sd1-C, Rdc OR Sg.
	SECTION 161, 603		

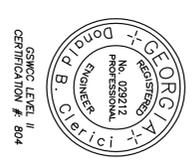
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, AND BRACING PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR SPACING REQUIREMENT.
	LINE CODE		

Ch-V	CHANNEL GRASS		USED TO IMPROVE OR STABILIZE A NEW OR EXISTING CHANNEL. IT IS CONSTRUCTED IN STORMWATER DRAINAGE DITCHES. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT DITCH PROTECTION PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
	SECTION 161, 700		

Cd-S	STONE OR SANDBAG CHECK DAM SECTION 163, 603		STONE CHECK DAMS ARE USED IN ROADWAY DITCHES. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE CHECK DAMS. CONTRACTOR MAY USE SANDBAG CHECK DAMS IN LIEU OF STONE CHECK DAMS.
	LINE CODE		

Cd-S	STONE OR SANDBAG CHECK DAM SECTION 163, 603		STONE CHECK DAMS ARE USED IN ROADWAY DITCHES. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE CHECK DAMS. CONTRACTOR MAY USE SANDBAG CHECK DAMS IN LIEU OF STONE CHECK DAMS.
	LINE CODE		

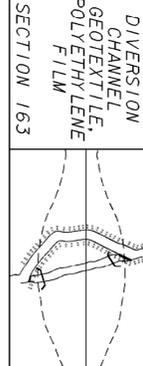
- NOTE:
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
  - FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



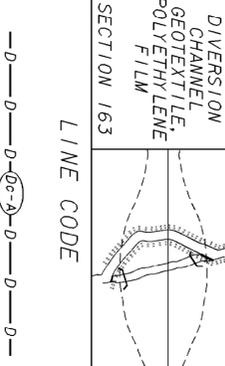
TC	UPDATED DRAWING NO.	I-24-13
TC	REVISED Cd-S DESCRIPTION, REMOVED Be & Ch-Br, AND RELOCATED Ch-Rp1, Ch-RP3 AND Ch-V CODES FROM ECL&UC SHEET 2 OF 6,	10-2-12
GLO	REV. Be, ADDED Bf, ESA, OBF AND Ch-F	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07
BY	REVISION	DATE
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 1 OF 6 NO SCALE JANUARY 2007		
NUMBER	EC-LI	DRAWING NO. 52-001

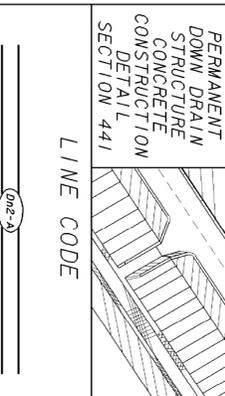
CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
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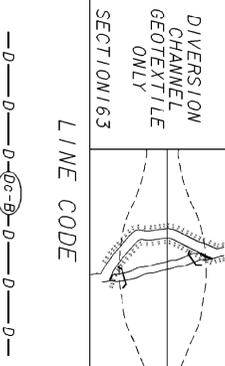
CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
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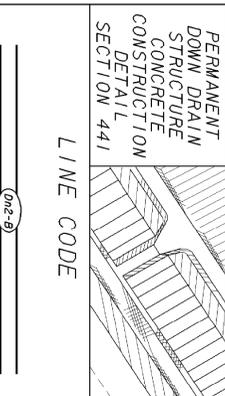
C0	CONSTRUCTION EXIT CONSTRUCTION DETAIL		A STONE STABILIZED PAD LOCATED AT ANY POINT WHERE TRAFFIC WILL BE EXITTING A CONSTRUCTION SITE TO A PUBLIC ROAD. BEST USED AT ACCESS POINTS, I. e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MIN. 20' WIDE AND 50' LONG, AND 6" THICK. REQUIRES A GEOTEXTILE UNDERLINER. INCLUDED IN THE PRICE FOR THE CONSTRUCTION EXIT.
	LINE CODE C0		

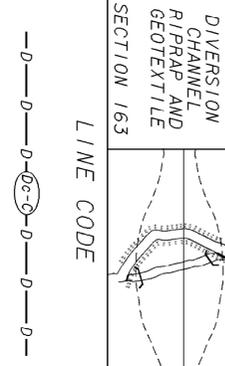
Dn1	DOWN DRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 500 FEET ON A 0 TO 2 PERCENT GRADE. 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE USUAL PIPE SIZE IS 10 INCH CORRUGATED. THE OUTLET AREA SHOULD BE STABILIZED WITH SILT FENCE. SWAMP HOLE HAYBALES, ANGLING OUTLET IN UPHILL DIRECTION OR OTHER APPROPRIATE MEANS FOR VELOCITY DISSIPATION AND EROSION CONTROL. THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10'.
	LINE CODE Dn1		

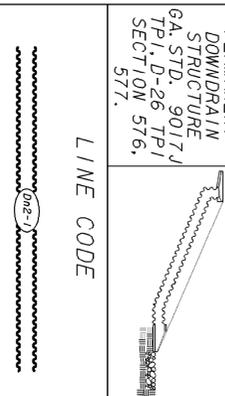
Dc-A	DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		A DIVERSION CHANNEL IS A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-C PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL SLOPE AND ROUGHNESS, IT IS DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 0-2.5 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE Dc-A		

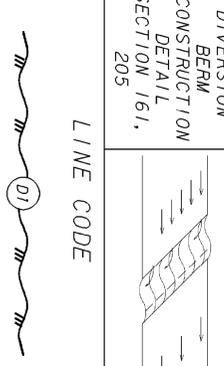
Dn2-A	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441		A CONCRETE FLUME TYPE 'A' IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25 YEAR STORM AND MUST 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 OR OTHER CRITERIA).
	LINE CODE Dn2-A		

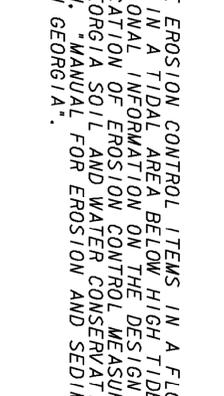
Dc-B	DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A DIVERSION CHANNEL IS A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE ONLY. INSTALL TWO ROWS OF Sd1-C 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 DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 2.5-9.0 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE Dc-B		

Dn2-B	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL 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-B		

Dc-C	DIVERSION CHANNEL RIPRAP AND GEOTEXTILE SECTION 163		A DIVERSION CHANNEL IS 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 RIPRAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-C 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 DESIGNED FOR A TWO YEAR STORM FREQUENCY WITH A FLOW RATE BETWEEN 9.0-13.0 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE Dc-C		

Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA STD. 9017/ TP1, D-26 TP1 SECTION 576.		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 Dn2-1		

D1	DIVERSION BERM CONSTRUCTION DETAIL SECTION 161, 205		THIS IS A TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT 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		

D1	DIVERSION BERM CONSTRUCTION DETAIL SECTION 161, 205		THIS IS A TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT 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		

- 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 CONTROL MEASURES SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

EROSION CONTROL LEGEND  
AND UNIFORM CODE SHEET  
SHEET 2 OF 6



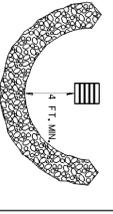
REVISED ORDER	II-13-07
REVISED TITLE BLOCK	I-19-07
DATE	
NO SCALE	
NUMBER	EC-L2
DRAWING NO.	52-002
JANUARY 2007	

UPDATED DRAWING NO.	I-24-13
REV. DI LABEL & DESCRIPTION, RELOCATED Dn2-A, Dn2-B, AND Dn2-C CODES FROM ECLUC SHEET 3 OF 6.	10-1-12
REVISION	

CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
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CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
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Dn2-2	PERMANENT DOWN DRAIN STRUCTURE GA. STD. 9017 J TP2, 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).
	MULCH		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.

FR	FILTER RING CONSTRUCTION DETAIL		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS. THIS REDUCES THE VELOCITY OF THE RUNOFF AND FILTERS SEDIMENT FROM THE RUNOFF. SEE CHAPTER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.
	EROSION CONTROL MATS CONSTRUCTION DETAIL SECTION 716		ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50' OF ALL CROSS DRAINS AND CULVERTS.

Ds1	TEMPORARY GRASSING SECTION 163		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS.
	MULCH		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.

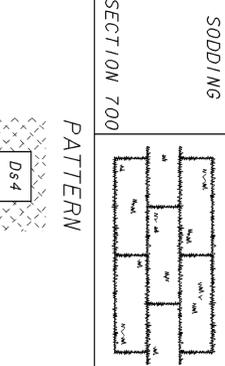
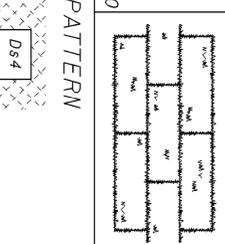
Mb	PERMANENT SOIL REINFORCING MAT CONSTRUCTION DETAIL SECTION 710		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES. (THIS IS ALSO CALLED "MB" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	ROCK FILTER DAM CONSTRUCTION DETAIL SECTION 603.		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP RAP AND ARE USED TO PROTECT SMALL STREAMS OR DRAINAGEWAYS. TO BE USED IN SMALL DRAINAGE CHANNELS OF 50 ACRES OR LESS. THE RIP RAP SHOULD BE PLACED ON A GEOTEXTILE UNDERLINER.

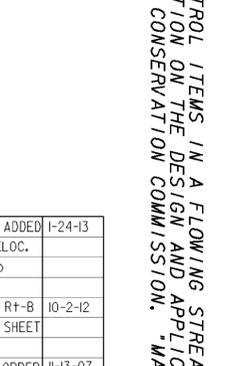
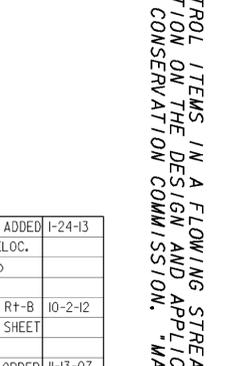
Ds2	PERMANENT GRASSING SECTION 700		PERMANENT VEGETATIVE REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS; HOWEVER, THEY MAY BE SHOWN ON THE PLANS FOR HIGHLY SENSITIVE AREAS WHERE THESE VEGETATIVE PRACTICES ARE CRITICAL.
	MULCH		THIS IS AN APPLICATION OF 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.

Ps	PERMANENT SOIL REINFORCING MAT CONSTRUCTION DETAIL SECTION 710		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES. (THIS IS ALSO CALLED "MB" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	ROCK FILTER DAM CONSTRUCTION DETAIL SECTION 603.		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP RAP AND ARE USED TO PROTECT SMALL STREAMS OR DRAINAGEWAYS. TO BE USED IN SMALL DRAINAGE CHANNELS OF 50 ACRES OR LESS. THE RIP RAP SHOULD BE PLACED ON A GEOTEXTILE UNDERLINER.

Ds3	PERMANENT GRASSING SECTION 700		PERMANENT VEGETATIVE REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS; HOWEVER, THEY MAY BE SHOWN ON THE PLANS FOR HIGHLY SENSITIVE AREAS WHERE THESE VEGETATIVE PRACTICES ARE CRITICAL.
	MULCH		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.

Rd	FILTER DAM CONSTRUCTION DETAIL SECTION 163.		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP RAP AND ARE USED TO PROTECT SMALL STREAMS OR DRAINAGEWAYS. TO BE USED IN SMALL DRAINAGE CHANNELS OF 50 ACRES OR LESS. THE RIP RAP SHOULD BE PLACED ON A GEOTEXTILE UNDERLINER.
	PERMANENT GRASSING SECTION 700		PERMANENT VEGETATIVE REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS; HOWEVER, THEY MAY BE SHOWN ON THE PLANS FOR HIGHLY SENSITIVE AREAS WHERE THESE VEGETATIVE PRACTICES ARE CRITICAL.

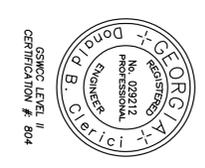
Ds4	SODDING SECTION 700		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION.
	MULCH		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING.

Ds4	SODDING SECTION 700		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION.
	MULCH		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.

NOTE:  
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.  
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

EROSION CONTROL LEGEND  
AND UNIFORM CODE SHEET  
SHEET 3 OF 6



TC	UPDATED DRAWING NO., ADDED	I-24-13
	Ds3 & Ds4 CODES, RELOC.	
	Rp & Rt-P CODES TO	
	DRAWING NO. 52-004.	
TC	RELOCATED Rd, Rp, & Rt-B	10-2-12
	CODES FROM ECL&UC SHEET	
	4 OF 6.	
GLO	DELETED Fe, REVISED ORDER	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07
BY	REVISION	DATE
NUMBER	NO SCALE	
EC-L3		
	JANUARY 2007	
	DRAWING NO.	52-003

CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
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Rp	R/PRAP SECTION 603		R/PRAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND END ROLLS. R/PRAP, TYPE 1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLIER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS.
	PATTERN		

Rt-P	RETROFITTING CONSTRUCTION DETAIL 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. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
	LINE CODE		

Rt-B	RETROFITTING CONSTRUCTION DETAIL SECTION 163		A SLOTTED BOARD DAM WITH STONE 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 100 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. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
	LINE CODE		

Rt-BSq3	SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE, SMALL BOX CULVERT, OR DROP INLET TO FORM A BASIN TO CATCH SILT AND PREVENT IT FROM LEAVING THE CONSTRUCTION SITE. IT IS EFFECTIVE ON SMALL DRAINAGE AREAS ONLY. DO NOT USE IN STATE WATERS. Rt-BSq1-TYPE 1: USED ON BOX CULVERTS Rt-BSq2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-BSq3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
	LINE CODE		

Sb-F	SILT RETENTION BARRIER FLOATING SECTION 170		A FLOATING BARRIER IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY FORCING IT TO DROP OUT OF SUSPENSION BEFORE IT MOVES OUT OF THE CONSTRUCTION AREA. IT IS USUALLY 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 ITEM IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED BMP'S.
	LINE CODE		

CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
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Sb-S	SILT RETENTION BARRIER STAKED SECTION 170		A STAKED BARRIER IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY FORCING IT TO DROP OUT OF SUSPENSION BEFORE IT MOVES OUT OF THE CONSTRUCTION AREA. IT IS USUALLY USED WHERE CONSTRUCTION IS REQUIRED IN SHALLOW INUNDATED AREAS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. A STAKED BARRIER MAY BE USED TO PROTECT A SMALL STREAM WHILE IT IS BEING REALIGNED OR WIDENED IN CUT. IN THIS CASE THE BARRIER SHOULD EXTEND TO THE BOTTOM OF THE STREAM, IT SHOULD BE LIMITED TO 5' IN HEIGHT UNLESS OTHERWISE DIRECTED. STAKED BARRIERS IN SMALL STREAMS SHOULD EXTEND 1' ABOVE NORMAL WATER. THIS ITEM IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED BMP'S.
	LINE CODE		

Sdi-A	SILT FENCE TYPE A CONSTRUCTION DETAIL SECTION 171		USED ALONG THE TOE OF FILLS LESS THAN 10' HIGH, ALONG THE RIGHT OF WAY LINE OR PARALLEL TO STREAMS. THE FENCE SHOULD NEVER RUN CONTINUOUS. IT SHOULD TURN BACK INTO THE FILL TO CREATE SMALL POCKETS TO TRAP SILT.
	LINE CODE		

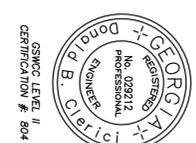
Sdi-B	SILT FENCE TYPE B CONSTRUCTION DETAIL SECTION 171		TYPE B MAY BE USED IN LIEU OF BALED STRAW AND AT THE TOE OF FILLS LESS THAN 10 FEET HIGH.
	LINE CODE		

Sdi-C	SILT FENCE TYPE C CONSTRUCTION DETAIL SECTION 171		A WOVEN SYNTHETIC FIBER FABRIC PLACED IN FRONT OF A WIRE FENCE. IT CAN BE USED ALONG THE TOE OF THE FILL, ALONG THE RIGHT OF WAY LINE OR PARALLEL TO STREAMS. IT IS USED TO CAPTURE SEDIMENT FROM FILLS OVER 10 FEET HIGH AND UNDER ALL BRIDGES.
	LINE CODE		

NOTE:  
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.  
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

EROSION CONTROL LEGEND  
AND UNIFORM CODE SHEET  
SHEET 4 OF 6

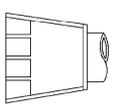


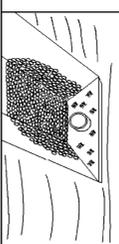
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GLO	REV. Sdi-A	11-13-07
GLO	REV. Sb-F, Sb-S, Sdi-A, Sbi-B AND Sdi-C.	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07
BY	REVISION	DATE
NUMBER	NO SCALE	
EC-L4		
DRAWING NO.	JANUARY 2007	

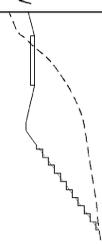
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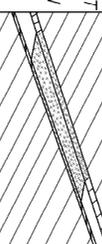


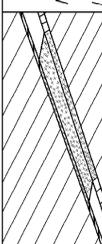
CODE	PRACTICE STD : SPC'S ; SECTION	DETAIL	DESCRIPTION
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St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO PREVENT EROSION AND TO SLOW WATER. IT IS USED ON THE 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 IS 12 fps AND GREATER.
	LINE CODE	(St)	

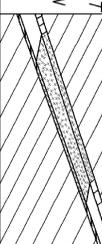
St-Rp	STORM DRAIN OUTLET PROTECTION SECTION 603		THIS ITEM IS ADDED TO "St" WHEN ADDITIONAL PROTECTION IS NEEDED. TYPE 1 RIP RAP PLACED ON FILTER FABRIC SHOULD BE USED AT A 24" THICKNESS. MAY BE USED ON INLETS FOR FLOWING STREAMS. REFER TO CHARTS IN "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR QUANTITY DETERMINATION.
	SECTION 603 PATTERN		

Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL 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 ITEM IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE USED ON THE PROJECT THEN THIS ITEM SHALL BE SHOWN WHERE SERRATED SLOPES ARE TO BE USED.
	LINE CODE	(Su)	

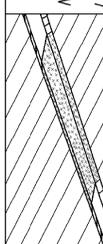
Trm-1	REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
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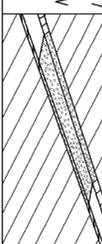
Trm-2	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	LINE CODE	(Trm-2)	

CODE	PRACTICE STD : SPC'S ; SECTION	DETAIL	DESCRIPTION
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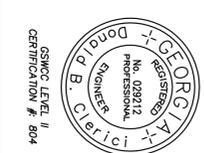
Trm-3	REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	LINE CODE	(Trm-3)	

Trm-4	REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
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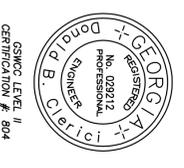
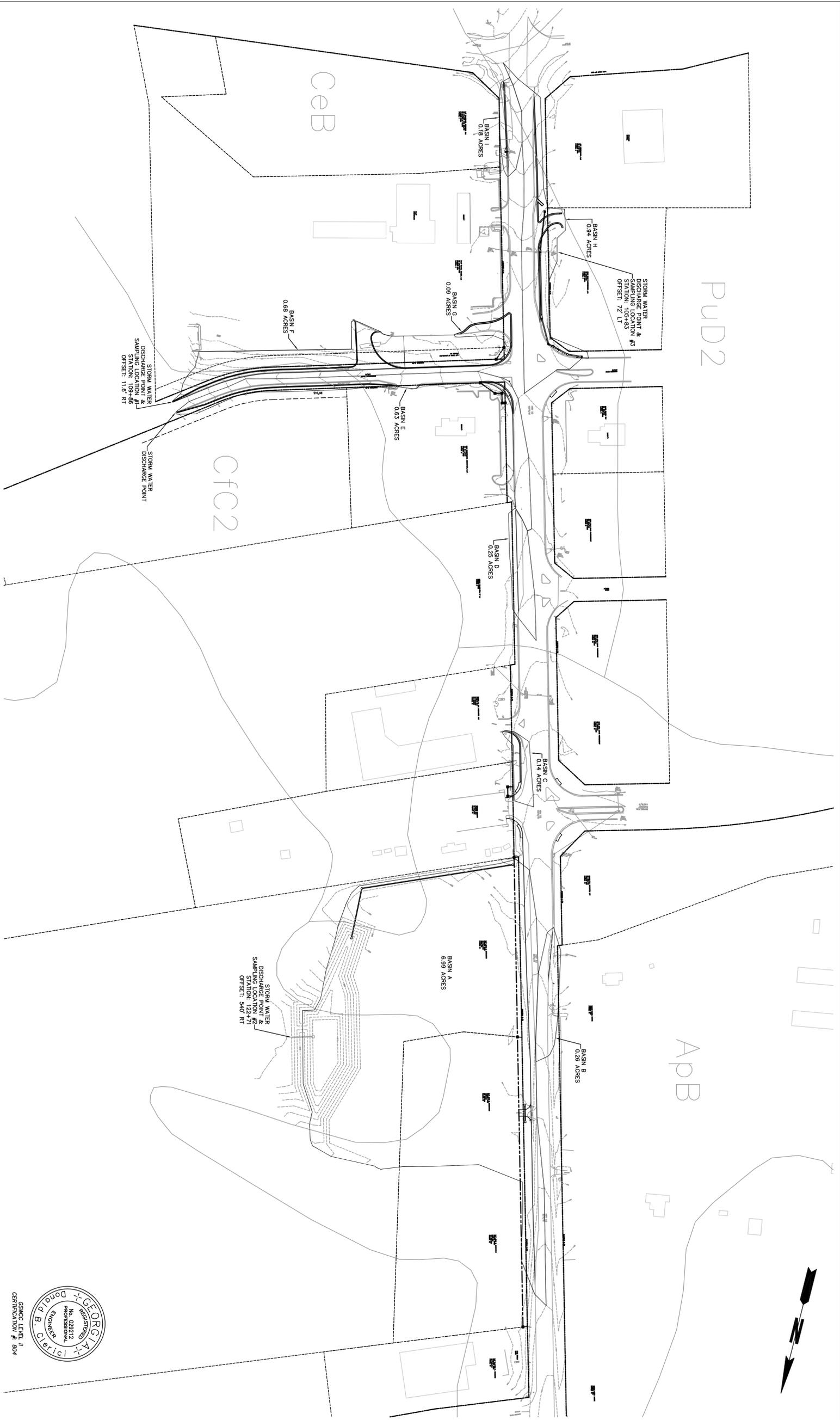
Trm-5	REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	LINE CODE	(Trm-5)	

Trm-6	REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	LINE CODE	(Trm-6)	

NOTE:  
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.  
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA."



TC	UPDATED DRAWING NO.	1-24-13
TC	ADDED Trm-1, Trm-2, Trm-3, Trm-4, Trm-5, AND Trm-6.	10-2-12
	CODES AND DESCRIPTIONS.	
	RELOCATED St, & St-Rp.	
	CODES TO ECL & UC SHT.	
	5 of 6.	
BY	REVISION	DATE
NUMBER	DEPARTMENT OF TRANSPORTATION	
EC-L6	STATE OF GEORGIA	
	EROSION CONTROL LEGEND	
	AND UNIFORM CODE SHEET	
	SHEET 6 OF 6	
	NO SCALE	NOV., 2007
	DRAWING NO.	52-006



<p style="text-align: center;"><b>BW&amp;K</b> CONSTRUCTION &amp; ENGINEERING</p> <p style="text-align: center; font-size: small;">PO BOX 878 BRASELTON, GA 30917 BUSINESS: 706-824-0914 FAX: 706-824-0919</p>	<p style="text-align: center;">SCALE IN FEET</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">REVISION DATES</th> <th style="width: 25%;">GA EPD COMMENTS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">3/21/14</td> <td></td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> <p style="text-align: center;">Town of Braselton</p> <p style="text-align: center;">OFFICE: EROSION CONTROL DRAINAGE MAP</p> <p style="text-align: center;">SR 53 WIDENING</p> <p style="text-align: right;">DRAWING No. <b>53-01</b></p>	REVISION DATES	GA EPD COMMENTS	3/21/14							
REVISION DATES	GA EPD COMMENTS											
3/21/14												

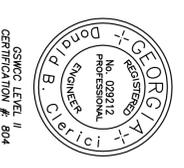
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COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



REVISION DATES

REVISION DATES	GA EPD COMMENTS
3/21/14	

Town of Braselton

OFFICE:

EROSION, SEDIMENTATION, AND  
POLLUTION CONTROL PLAN  
PHASE 1  
SR 53 WIDENING

DRAWING No.  
54-01

PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0914  
FAX: 706-824-0919



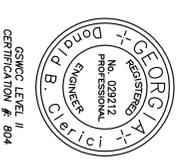
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COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



REVISION DATES

DATE	COMMENTS
3/21/14	GA EPD COMMENTS

Town of Braselton

OFFICE:

EROSION, SEDIMENTATION, AND  
POLLUTION CONTROL PLAN  
PHASE 2  
SR 53 WIDENING

DRAWING NO.  
54-02



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BRASELTON, GA 30917  
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FAX: 706-824-0919



COUNTY  
JACKSON

PROJECT NUMBER

SHEET NO.

TOTAL SHEETS



REVISION DATES	
3/21/14	GA EPD COMMENTS

Town of Braselton

OFFICE:

EROSION, SEDIMENTATION, AND  
POLLUTION CONTROL PLAN  
PHASE 3  
SR 53 WIDENING

DRAWING NO.  
54-03

PO BOX 878  
BRASELTON, GA 30917  
BUSINESS: 706-824-0914  
FAX: 706-824-0919

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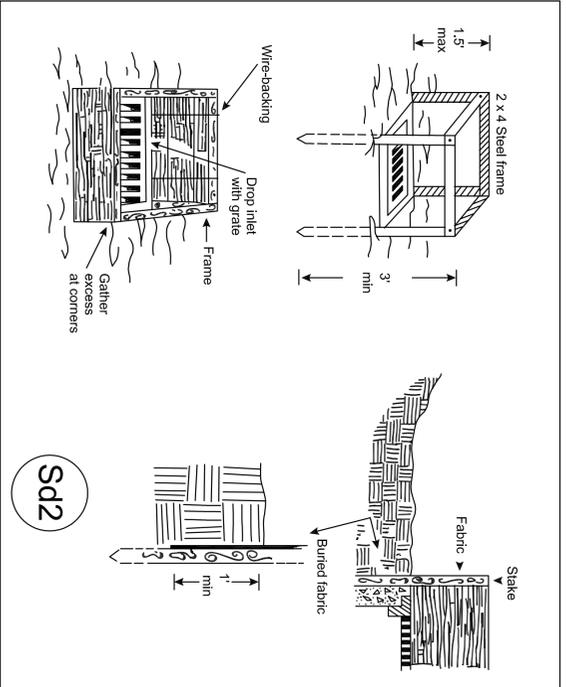


Figure 6-21.1 - Fabric and Supporting Frame for Inlet Projection

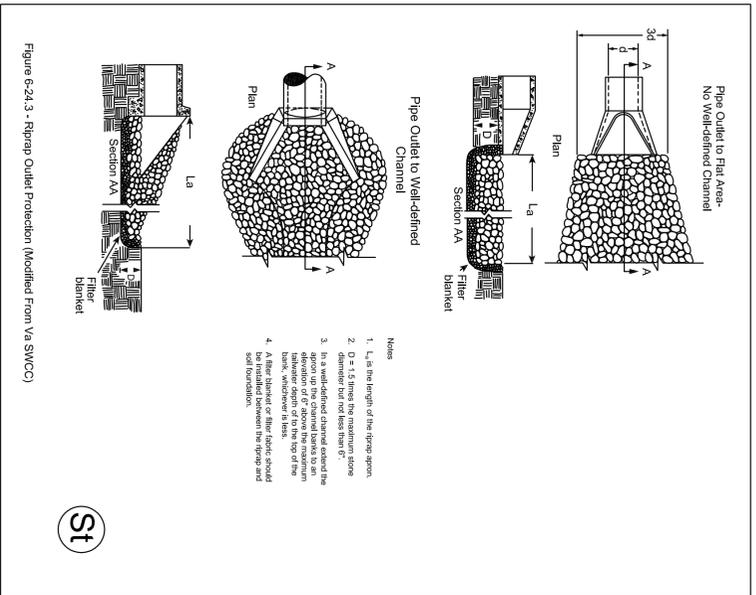


Figure 6-24.3 - Riprap Outlet Protection (Modified From Va SWCC)

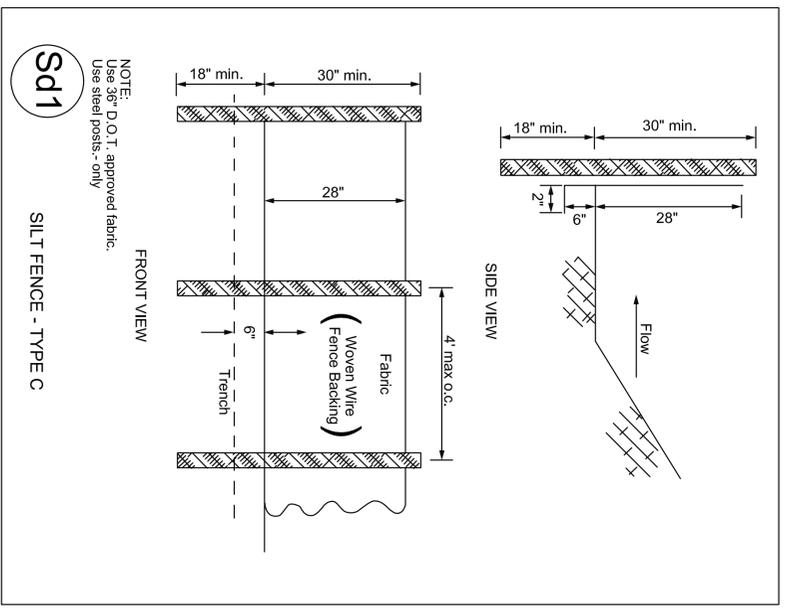


Figure 6-20.6

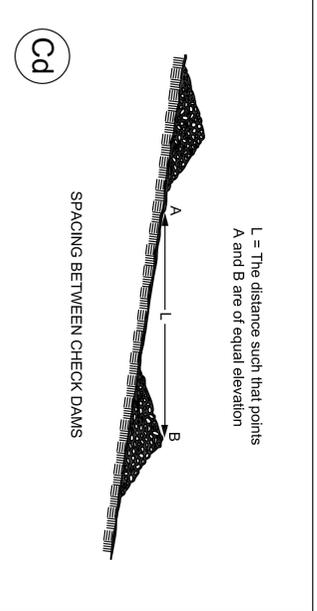
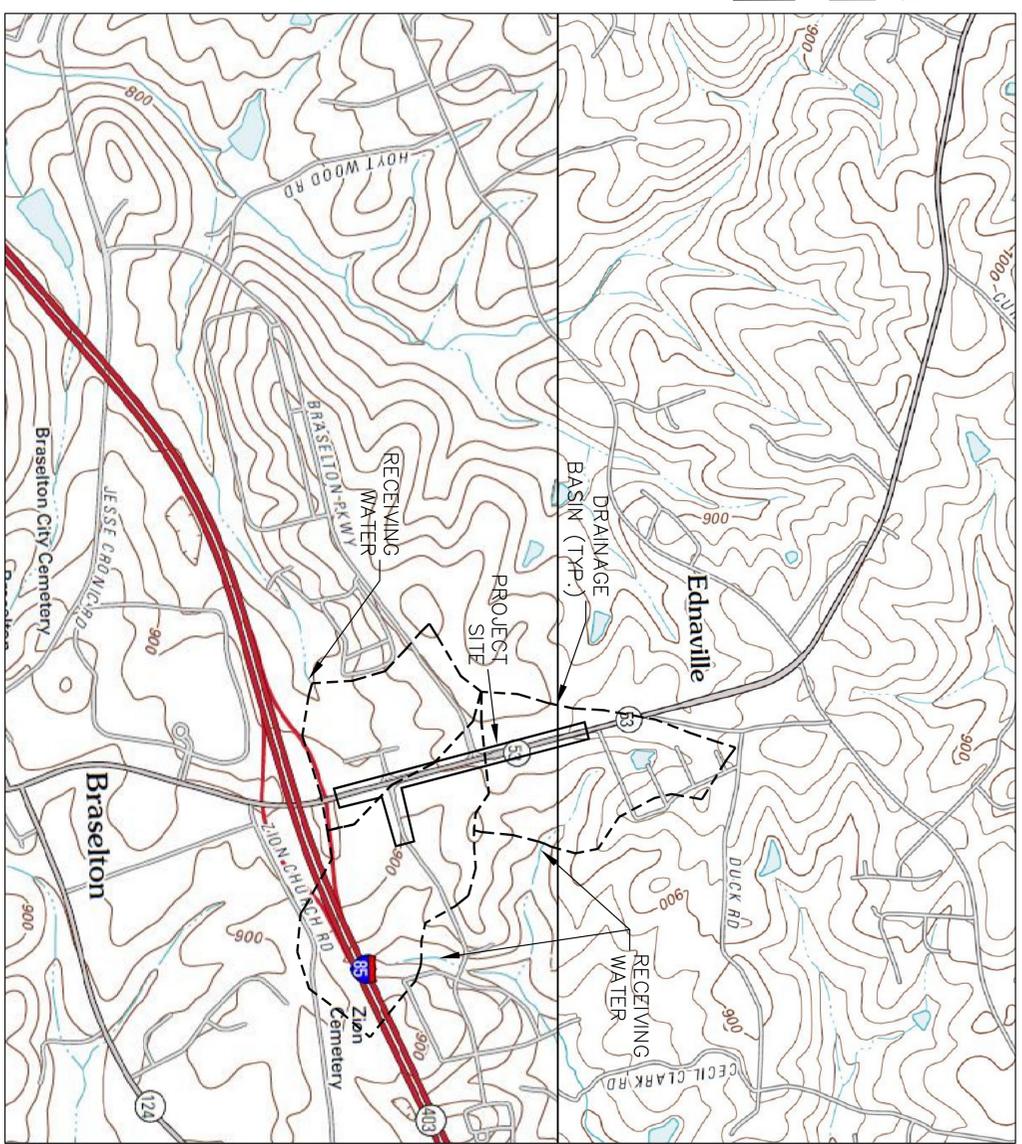


Figure 6-10.1

LOCATED AT STRUCTURE	PIPE LENGTH (FEET) AT TYPE	FLOW CHARACTERISTICS OF THE PIPE AT FULL FLOW			STORM DRAIN OUTLET PROTECTION			SINK (ft)
		FLOW RATE (cfs)	VELOCITY (ft/s)	WALKER DIMENSION (ft)	LENGTH (ft)	WIDTH (ft)	CONCRETE DIMENSION (ft)	
Sd1	30'-18" HDPE	16.1	9.1	43.5 DIA.	14'-0"	4'-5"	15'-6"	7'
Sd2	105'-18" HDPE	16.1	9.1	43.5 DIA.	14'-0"	4'-5"	15'-6"	7'
Sd3	90'-18" CWP	2.026	8.8	5.0	10'-0"	4'-5"	11'-6"	5'

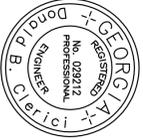


OFF-SITE DRAINAGE BASIN MAP

**EXCAVATED INLET SEDIMENT TRAP LOCATED AT STORM DRAIN STRUCTURE (TYPICAL)**

1. Detention Area = 4022Ac
2. Required Sediment Storage = 67 cu/oc + 4022Ac
3. Assume excavation depth (minimum 1.5 ft) = 3.0 ft
4. Assume side slopes (final not be steeper than 2:1) = 2:1
5. Slope = 2:1
6. Assume slope of excavation and determine dimensions

Dimensions: L = 340.0 ft W = 5.0 ft diameter (if applicable) = 5 ft



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3/21/14	

Town of Braselton  
OFFICE: EROSION CONTROL DETAILS  
DRAWING No. SR 53 WIDENING 55-01



**CONSTRUCTION SPECIFICATIONS**

**Grading and Sloping**  
 Grading and sloping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical erosion control measures shall be installed on all slopes greater than 3:1. The use of any erosion control equipment on steep slopes shall be in accordance with the manufacturer's instructions. Erosion control equipment shall be installed on all slopes greater than 3:1. The use of any erosion control equipment on steep slopes shall be in accordance with the manufacturer's instructions. Erosion control equipment shall be installed on all slopes greater than 3:1. The use of any erosion control equipment on steep slopes shall be in accordance with the manufacturer's instructions.

**Hydraulic Seeding**  
 Hydraulic seeding equipment shall be used for all slopes greater than 3:1. The use of any hydraulic seeding equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions. Hydraulic seeding equipment shall be used for all slopes greater than 3:1. The use of any hydraulic seeding equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions. Hydraulic seeding equipment shall be used for all slopes greater than 3:1. The use of any hydraulic seeding equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions.

**Soil Preparation**  
 Soil preparation shall be performed on all slopes greater than 3:1. The use of any soil preparation equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions. Soil preparation shall be performed on all slopes greater than 3:1. The use of any soil preparation equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions. Soil preparation shall be performed on all slopes greater than 3:1. The use of any soil preparation equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions.

**Seeding**  
 Seeding shall be performed on all slopes greater than 3:1. The use of any seeding equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions. Seeding shall be performed on all slopes greater than 3:1. The use of any seeding equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions. Seeding shall be performed on all slopes greater than 3:1. The use of any seeding equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions.

**Fertilizing**  
 Fertilizing shall be performed on all slopes greater than 3:1. The use of any fertilizing equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions. Fertilizing shall be performed on all slopes greater than 3:1. The use of any fertilizing equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions. Fertilizing shall be performed on all slopes greater than 3:1. The use of any fertilizing equipment on slopes greater than 3:1 shall be in accordance with the manufacturer's instructions.

**PLANTS, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER**

Species	Planting Rate (per 100 sq ft)	Planting Dates	Notes
GRASS (PERMANENT)	1.0 lb./sq. ft.	April - May	Use 1/2" x 1/2" seed
GRASS (TEMPORARY)	0.5 lb./sq. ft.	April - May	Use 1/2" x 1/2" seed
WOOD PLANT	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed
SHRUB	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed
TREE	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed

**FERTILIZER REQUIREMENTS**

Type of Species	NPK Analysis or Equivalent	Rate	Top Dressing
1. Cool season grasses	6-12-12	100 lb./ac.	50-100 lb./ac. 1/2
2. Cool season legumes	6-12-12	100 lb./ac.	50-100 lb./ac. 1/2
3. Warm season grasses	10-10-10	100 lb./ac.	50-100 lb./ac. 1/2
4. Warm season legumes	10-10-10	100 lb./ac.	50-100 lb./ac. 1/2

- 1/ Apply in spring following seeding.
- 2/ Apply in spring following seeding.
- 3/ Apply in spring following seeding.
- 4/ Apply in spring following seeding.
- 5/ Apply in spring following seeding.

**Disturbed Area Stabilization (with Permanent Vegetation)**

**DS1 MULCHING ONLY**

Material	Rate	Planting Dates	Notes
GRASS MULCH	4-4-4 DEEP OR 2-2-2 SHALLOW	April - May	Use 1/2" x 1/2" seed
WOOD CHIP MULCH	4-4-4 DEEP OR 2-2-2 SHALLOW	April - May	Use 1/2" x 1/2" seed
SHREDDED RESIDUE	4-4-4 DEEP OR 2-2-2 SHALLOW	April - May	Use 1/2" x 1/2" seed

**DS2 TEMPORARY GRASSING**

**TEMPORARY GRASSING SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS PINE GRASS, TOP GRASS, OR BERMUDA GRASS. MULCHING SHALL BE USED AS DETAILED ON SHEET DS1.**

Species	Rate	Planting Dates	Notes
GRASS	4-4-4 DEEP OR 2-2-2 SHALLOW	April - May	Use 1/2" x 1/2" seed
WOOD PLANT	4-4-4 DEEP OR 2-2-2 SHALLOW	April - May	Use 1/2" x 1/2" seed
SHRUB	4-4-4 DEEP OR 2-2-2 SHALLOW	April - May	Use 1/2" x 1/2" seed
TREE	4-4-4 DEEP OR 2-2-2 SHALLOW	April - May	Use 1/2" x 1/2" seed

**DS4 DISTURBED AREA STABILIZATION (WITH SODDING)**

Type of Species	Planting Rate	Planting Dates	Notes
GRASS	1.0 lb./sq. ft.	April - May	Use 1/2" x 1/2" seed
WOOD PLANT	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed
SHRUB	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed
TREE	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed

**SOD PLANTING REQUIREMENTS**

Grass	Wreath	Response Area	Spacing	Notes
BERMUDA GRASS	1.0 sq. ft./sq. ft.	1.0 sq. ft./sq. ft.	1.0 sq. ft./sq. ft.	Use 1/2" x 1/2" seed
ST. AUGUSTINE	1.0 sq. ft./sq. ft.	1.0 sq. ft./sq. ft.	1.0 sq. ft./sq. ft.	Use 1/2" x 1/2" seed
ZOYSIA	1.0 sq. ft./sq. ft.	1.0 sq. ft./sq. ft.	1.0 sq. ft./sq. ft.	Use 1/2" x 1/2" seed

**TREES FOR EROSION CONTROL**

Tree	Rate	Planting Dates	Notes
GRASS	1.0 lb./sq. ft.	April - May	Use 1/2" x 1/2" seed
WOOD PLANT	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed
SHRUB	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed
TREE	1.0 sq. ft./sq. ft.	April - May	Use 1/2" x 1/2" seed

**REVISION DATES**

Date	Comments
3/21/14	GA EPD COMMENTS

**EROSION CONTROL DETAILS**



**BW&K CONSTRUCTION ENGINEERING**

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 BUSINESS: 706-824-0514  
 FAX: 706-824-0519

**SR 53 WIDENING**

DRAWING NO. **55-03**