11/3/2010 3:25:08 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097cv01.dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			JACKSON	CSTEE-0009-00(097)	1	99

TOWN OF BRASELTON
JACKSON COUNTY

PLAN AND PROFILE
SR 53 STREETSCAPE

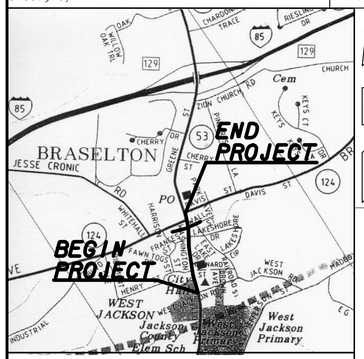
TRANSPORTATION ENHANCEMENT PROJECT

CSTEE-0009-00(097)

Georgia D.O.T. P.I. No. 0009097

FEDERAL ROUTE No. N/A

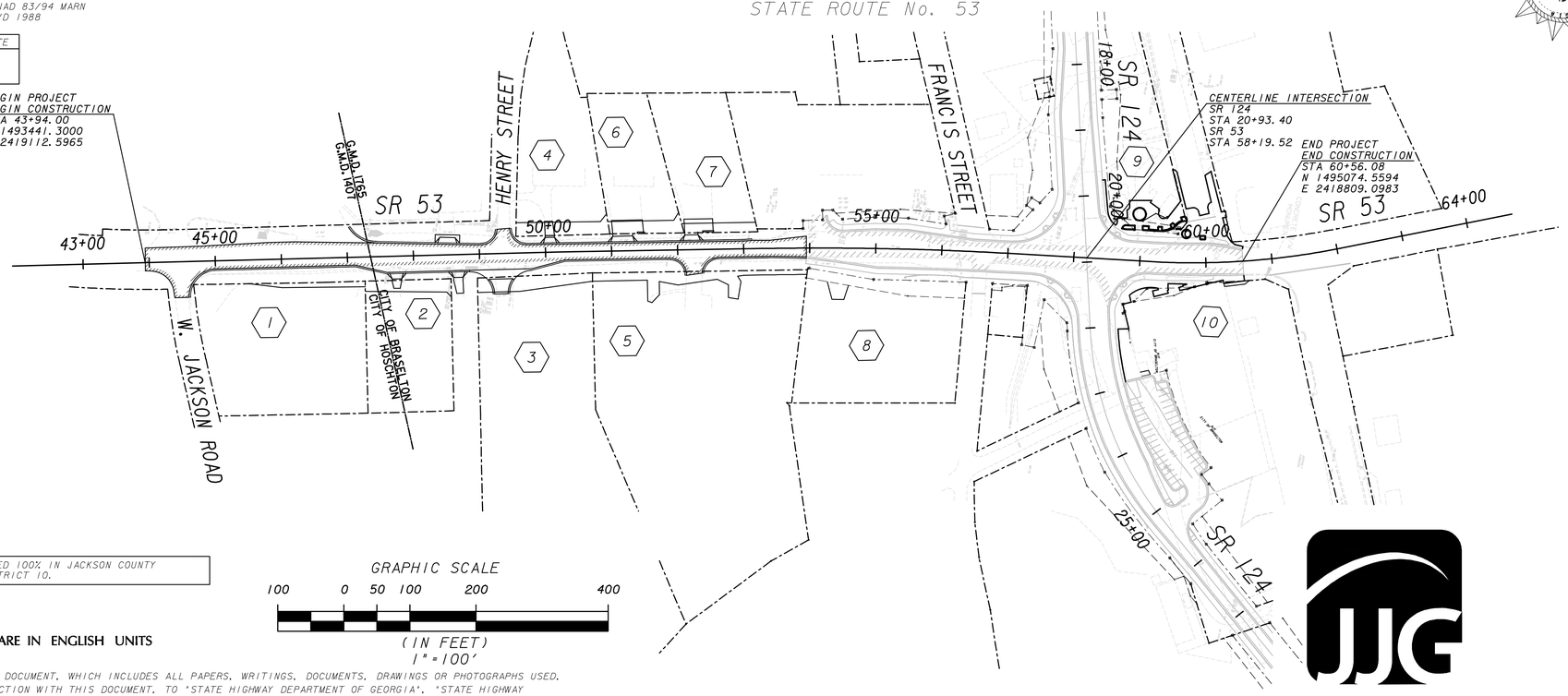
STATE ROUTE No. 53



LOCATION SKETCH

NOTE: THE CO-ORDINATES LISTED ARE WEST ZONE GRID CO-ORDINATES BASED ON THE GA. STATE PLANE CO-ORDINATE SYSTEM OF 1985.
HORIZONTAL DATUM : NAD 83/94 MARN
VERTICAL DATUM : NAVD 1988

MIDPOINT COORDINATE
STATION 52+25.04
N 1494254.7681
E 2418942.6301



THIS PROJECT IS LOCATED 100% IN JACKSON COUNTY AND CONGRESSIONAL DISTRICT 10.

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1" = 100'

NOTE: THESE PLANS ARE IN ENGLISH UNITS

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

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF THE BIDDER IS SPECIFICALLY DIRECTED TO ARTICLES 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION, STATE OF GEORGIA, FOR THE CONSTRUCTION OF TRANSPORTATION SYSTEMS, CURRENT EDITION, AND ANY MODIFICATIONS THEREOF, WHICH WILL BE A PART OF THIS CONTRACT.

ALL WORK TO BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE DEPARTMENT OF TRANSPORTATION OF GEORGIA, CURRENT EDITION. AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

DESIGN DATA	
TRAFFIC A.D.T.:	6,900 (2010)
TRAFFIC A.D.T.:	12,000 (2030)
TRAFFIC D.H.V.:	735 (2030)
DIRECTIONAL DIST.:	52.5%
% TRUCKS:	7%
% 24 HR. TRUCKS:	5%
SPEED DESIGN:	35 MPH

LENGTH OF PROJECT	COUNTY NO. 157
	MILES
NET LENGTH OF ROADWAY	0.19
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.32
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.32

6801 GOVERNORS LAKE PARKWAY
NORCROSS, GA 30071
(770) 455-8555

PLANS PREPARED BY

JACOBS JJG

UNDER THE SUPERVISION OF

BRAD JONES, LA

RECOMMENDED FOR APPROVAL BY: _____
STATE ROADWAY DESIGN ENGINEER

DATE _____ CHIEF ENGINEER

LOCATION AND DESIGN APPROVAL DATE: 3/3/10

PLANS COMPLETED DATE: 11/03/10

REVISION DATES:

INDEX OF SHEETS

SHEET	GROUP SHEET	CONSTRUCTION PLANS
1	1.01	COVER SHEET
2	2.01	INDEX
3	3.01	REVISION SUMMARY
4	4.01	GENERAL NOTES
5-7	5.01-5.03	TYPICAL SECTIONS
8-9	6.01-6.02	SUMMARY QUANTITIES
10	7.01	QUANTITIES REQUIRED BY AMENDMENT
11	8.01	QUANTITIES REQUIRED ON CONSTRUCTION
12-17	13.01-13.06	MAINLINE ROADWAY PLANS
18-19	17.01-17.02	DRIVEWAY PROFILE
20	21.01	DRAINAGE AREA MAP
21-26	22.01-22.06	DRAINAGE PROFILES & CROSS SECTIONS
27-30	23.01-23.04	EARTHWORK CROSS SECTIONS
31-37	24.00-24.06	UTILITY PLANS
38-46	25.00-25.08	LIGHTING PLANS
47-49	26.01-26.03	SIGNING & MARKING PLANS AND DETAILS
50-56	29.01-29.07	LANDSCAPING PLANS AND DETAILS
57-58	38.01-38.02	SPECIAL CONSTRUCTION DETAILS

SHEET	GROUP SHEET	GA DEPARTMENT OF TRANSPORTATION CONST. DETAILS	DATE
59	40.01	DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS (A-1)	4-02
60	40.02	6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE (A-2)	2-03
61	40.03	CONCRETE SIDEWALK DETAILS, CURB CUT (WHEELCHAIR) RAMPS (A-3)	6-09
62	40.04	DETAILS OF SIGN PLATES (T-1)	1-00
63	40.05	TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL (T-3A)	7-02
64	40.06	DETAILS OF PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY (T-11A)	1-00
65	40.07	DETAILS OF PAVEMENT MARKING ARROW LOCATION (T-12A)	1-00
66	40.08	DETAIL OF PAVEMENT MARKING HATCHING (T-14)	11-08
67	40.09	DETAILS OF RAISED PAVEMENT MARKER LOCATION (T-15A)	1-04
68	40.10	DETAILS OF RAISED PAVEMENT MARKERS (T-15C)	1-00

INDEX OF SHEETS

SHEET	GROUP SHEET	GA DEPARTMENT OF TRANSPORTATION STANDARD PLANS	DATE
69	41.01	1011-A BRICK MANHOLES	10-81
70	41.02	1011-A PRECAST REINFORCED CONCRETE MANHOLE	6-75
71	41.03	1019-A DROP INLETS (BUILT-IN-PLACE)	8-99
72	41.04	1019-A PRECAST DROP INLETS	8-99
73	41.05	1033-D CATCH BASINS	8-82
74	41.06	1033-D PRECAST CATCH BASINS	9-82
75	41.07	1040 CIRCULAR BASE UNITS AND RISERS FOR CATCH BASINS AND DROP INLETS	11-99
76	41.08	3901 BAR BENDING DETAILS	8-69
77	41.09	9032-B CONCRETE CURB & GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	3-03
78	41.10	9100 TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS	3-06
79	41.11	9102 TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY	3-06

INDEX OF SHEETS

SHEET	GROUP SHEET	EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN AND COMPREHENSIVE MONITORING PROGRAM
80	50.01	ESPCP COVER SHEET
81-83	51.01-51.03	BMP GENERAL NOTES
84-89	52.01-52.06	EROSION CONTROL LEGEND
90	53.01	ERC DRAINAGE AREA MAP
91-96	54.01-54.06	BMP LOCATION DETAILS
97	55.01	EROSION CONTROL WATERSHED MAP & SITE MONITORING LOCATIONS

SHEET	GROUP SHEET	GA DOT CONSTRUCTION DETAILS FOR EROSION CONTROL	DATE
98	56.01	TEMPORARY SILT FENCE (D-24a)	9-01
99	56.02	TYPICAL LOCATION DETAILS FOR SILT FENCES / BALED STRAW (D-24b)	10-02

TOTAL SHEETS: 99

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

INDEX

SR 53 STREETSCAPE

DRAWING No. 2-01

11/3/2010	3:25:09 PM	GDOTRoad	p:\02\02358\008\dgn\009097rv01.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray		ROAD.TBL		GA	CSTEE-0009-00(097)	3	99

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

NOT RELEASED
FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

REVISION SUMMARY

SR 53 STREETSCAPE

DRAWING No.
3-01

GPLN

GENERAL NOTES

1. A NOTICE OF INTENT WILL BE REQUIRED FOR THIS PROJECT.

Pipe Culvert Material Alternates
For Piedmont/Blue Ridge Region

TYPE OF PIPE INSTALLATION			CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
				ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINK COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLY-ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE 'S'	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING		X							
	LONGITUDINAL NON INTERSTATE AND NON TRAVEL BEARING		X	X		X		X	X	X
	CROSS DRAIN GRADE ≤ 10%	ADT < 250	X	X	X	X		X	X	X
		250 < ADT < 1,500	X	X*		X		X	X	X
		1,500 < ADT < 15,000	X					X	X	X
		ADT > 15,000	X							
	CROSS DRAIN GRADE > 10%	ADT < 250		X	X	X		X	X	X
		ADT > 250				X		X	X	X
	SIDE DRAIN		X	X	X	X		X	X	X
	PERMANENT SLOPE DRAIN			X	X	X		X	X	X
	PERFORATED UNDERDRAIN			X	X	X	X	X		X

* This type pipe can be used if the addition of Type "B" coating (AASHTO M-190, Half Bituminous Coated with Paved Invert) is utilized.

NOTES:

1. Allowable materials are indicated by an "X".
2. Structural requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P, whichever is applicable, and the Standard Specifications:
3. Graded aggregate backfill shall be used in cross drain applications for all plastic pipes (AASHTO M-294, HDPE pipe; AASHTO M-304, PVC pipe; ASTM F-949, PVC pipe).
4. The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.

PROJECT NOTES

1. ALL DRIVES THAT ARE TO BE RECONSTRUCTED SHALL BE REPLACED IN KIND , I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND GRADED AGGREGATE FOR AGGREGATE OR EARTH WHERE REQUIRED. DRIVES SHALL BE PAVED AS FOLLOWS:

ASPHALT DRIVES	RESIDENTIAL:	165 LBS/SY ASPHALTIC CONCRETE 12.5 mm SUPERPAVE 6" GRADED AGGREGATE
	COMMERCIAL:	165 LBS/SY ASPHALTIC CONCRETE 12.5 mm SUPERPAVE 220 LBS/SY ASPHALTIC CONCRETE 19.0 mm SUPERPAVE 6" GRADED AGGREGATE
CONCRETE DRIVES	RESIDENTIAL:	6" CONCRETE, 4" GRADED AGGREGATE
	COMMERCIAL:	8" CONCRETE, 6" GRADED AGGREGATE
AGGREGATE DRIVES	RESIDENTIAL:	8" GRADED AGGREGATE
	COMMERCIAL:	8" GRADED AGGREGATE

2. ALL THE FOLLOWING UTILITY OWNERS WERE REPORTED TO HAVE UTILITY FACILITIES WITHIN THE VICINITY OF THIS PROJECT. THESE UTILITY FACILITIES ARE ALSO SHOWN ON THE PLANS HEREON.

NAME OF UTILITY OWNER	UTILITY
ATLANTA GAS LIGHT COMPANY	NATURAL GAS
TOWN OF BRASELTON	WATER & SEWER
WINDSTREAM COMMUNICATIONS	TELEPHONE
JACKSON EMC	ELECTRIC (DIST.)
COMCAST	CABLE TV

3. ALL EXISTING DRAINAGE PIPE NOT TO REMAIN FOR DRAINAGE PURPOSES AND NOT LOCATED BENEATH THE EXISTING PAVEMENT ARE TO BE REMOVED. ALL COST FOR THE REMOVAL OF THESE PIPES ARE TO BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.

GEORGIA 811 Utilities Protection Center, Inc.
Know what's BELOW. Call before you dig.

ROADWAY LEGEND

	EXISTING	PROPOSED
RIGHT-OF-WAY		
RIGHT-OF-WAY AND LIMIT OF ACCESS		
REQUIRED RIGHT-OF-WAY MARKER		
LIMIT OF ACCESS		
BEGIN LIMIT OF ACCESS		BLA
END LIMIT OF ACCESS		ELA
CENTERLINE		
HISTORICAL BOUNDARY	HB	
FENCE		
DITCH OR SWALE		
TOP OF CUT		C
TOE OF FILL		F
PROPERTY LINE	P	
EASEMENT FOR CONSTR. OF SLOPES		
EASEMENT FOR CONSTR. OF DRIVES		
OBLITERATE PAVEMENT, GRASS & GRADE TO DRAIN		

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

GENERAL NOTES

SR 53 STREETSCAPE

DRAWING No. 4-01

(A) 165 lbs/yd^2 ASPHALTIC CONCRETE
12.5 mm SUPERPAVE

(B) 220 lbs/yd^2 ASPHALTIC CONCRETE
19 mm SUPERPAVE

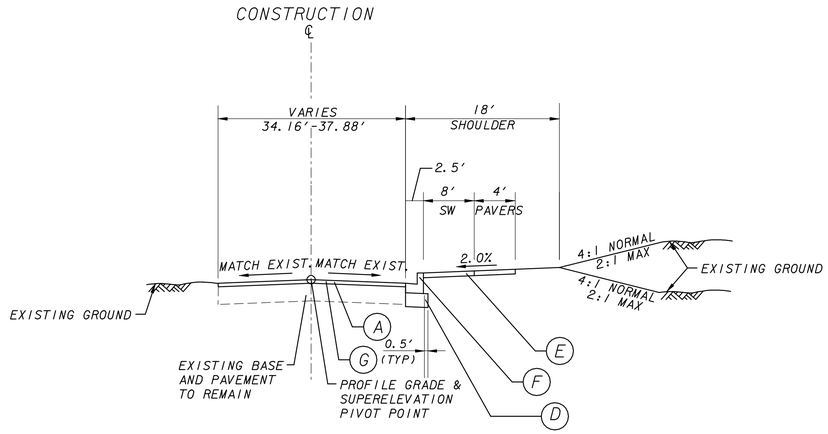
(C) 880 lbs/yd^2 ASPHALTIC CONCRETE
25 mm SUPERPAVE

(D) 12" GRADED AGGREGATE BASE

(E) 12' CONCRETE SIDEWALK
4" THICK TYPICAL
GA. DOT CONST. DETAIL A-3

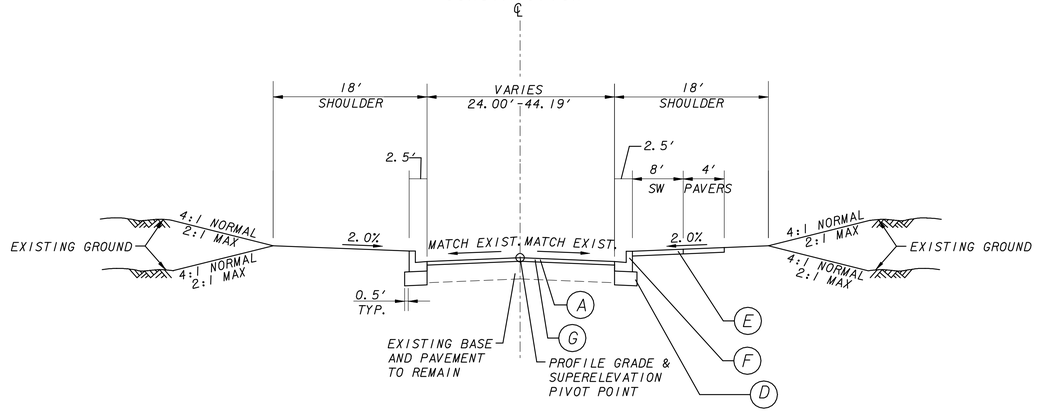
(F) 8" x 30" CURB & GUTTER
GA. DOT STD.
9032-B, TYPE 2

(G) MILLING, 1.5" DEPTH



TYPICAL SECTION NO. 1

NORMAL CROWN
SR 53
BEGIN TO STA 47+11.76



TYPICAL SECTION NO. 2

NORMAL CROWN
SR 53
STA 47+11.76 TO STA 49+46.72

NOT TO SCALE

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

TYPICAL SECTIONS

SR 53 STREETSCAPE

DRAWING No. 5-01

GPLN

(A) 165 lbs/yd^2 ASPHALTIC CONCRETE
12.5 mm SUPERPAVE

(B) 220 lbs/yd^2 ASPHALTIC CONCRETE
19 mm SUPERPAVE

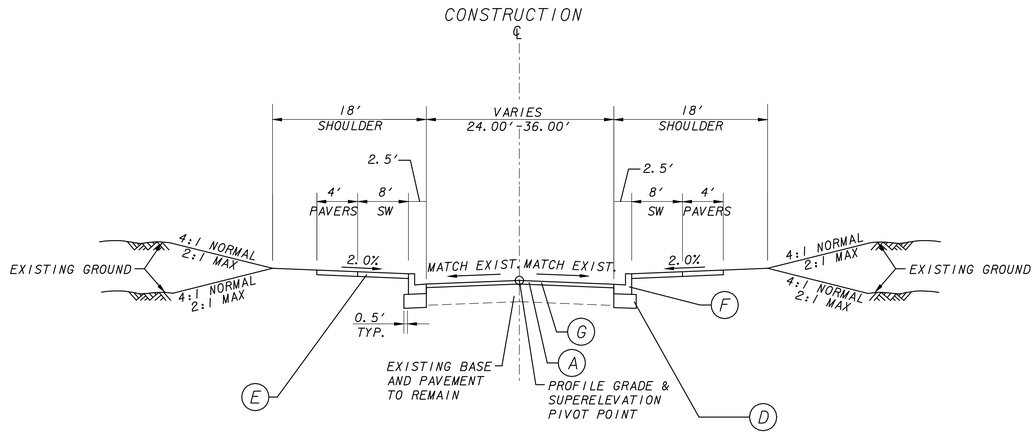
(C) 880 lbs/yd^2 ASPHALTIC CONCRETE
25 mm SUPERPAVE

(D) 12" GRADED AGGREGATE BASE

(E) 12' CONCRETE SIDEWALK
4" THICK TYPICAL
GA. DOT CONST. DETAIL A-3

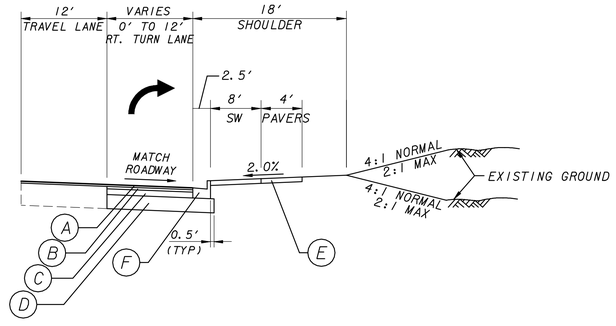
(F) 8" x 30" CURB & GUTTER
GA. DOT STD.
9032-B, TYPE 2

(G) MILLING, 1.5" DEPTH



TYPICAL SECTION NO. 3

NORMAL CROWN
SR 53
STA 49+46.72 TO STA 53+94.98



TURN LANE DETAIL NO. 1

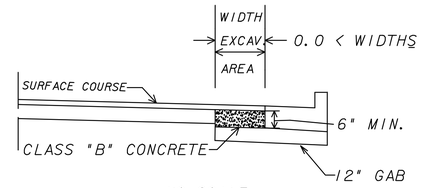
W/RIGHT TURN LANE, TAPER & CURB AND GUTTER
SEE CONSTRUCTION PLANS FOR LOCATIONS

NOT TO SCALE

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
TYPICAL SECTIONS
SR 53 STREETSCAPE
DRAWING No. 5-02



NO SCALE

CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
Item Code 500-9999 - Cu. Yds.

In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section. Payment will be made under "Class B Concrete Base and Pavement Widening".

In excavated areas greater than 5'-0" in width, the Contractor shall place base and paving as specified on the typical section.

See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE OR WIDENING DETAIL

ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
1.50% - MINIMUM	1.56% - MINIMUM
2.00% - DESIRABLE	2.00% - DESIRABLE
2.50% - MAXIMUM	3.00% - MAXIMUM

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

	RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM	1:150	0.67%
DESIRABLE	1:200	0.50%
MAXIMUM	1:300	0.33%

LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

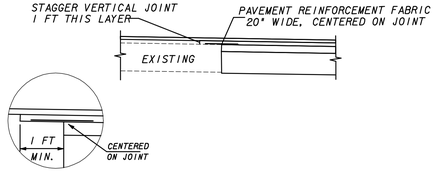
D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

50% OF TRANSITION INSIDE CURVE - MAXIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE
20% OF TRANSITION INSIDE CURVE - MINIMUM

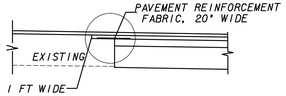
NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).

TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH 2" OR MORE OF ASPHALTIC CONCRETE



TYPICAL SECTION DETAIL TO BE USED WHEN EXISTING PAVEMENT IS TO BE RESURFACED WITH LESS THAN 2" OF ASPHALTIC CONCRETE



MILL EXISTING LANE 1 FT WIDE TO DEPTH OF ADJOINING LAYER TO BE PLACED

COST OF MILLING FOR THIS WORK TO BE INCLUDED IN THE UNIT PRICE BID FOR PAVEMENT REINFORCING FABRIC.

PAVEMENT FABRIC DETAIL

NOT TO SCALE

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

TYPICAL SECTIONS

SR 53 STREETSCAPE

DRAWING No. 5-03

TRAFFIC CONTROL
PROJECT CSTEE-0009-00(097)
LUMP SUM

GRADING COMPLETE
PROJECT CSTEE-0009-00(097)
LUMP SUM

RIGHT OF WAY MARKERS	
	RIGHT OF WAY MARKERS
	EACH
PROJECT TOTAL:	13

MULCH	
	MULCH (TEMPORARY AND PERMANENT)
	TON
PROJECT TOTAL:	500

PERMANENT EROSION CONTROL						
	PERMANENT GRASSING	AGRICULTURAL LIME	LIQUID LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	EROSION CONTROL MATS, SLOPES
	ACRE	TON	GAL	TON	LB	SQ YD
PROJECT TOTAL:	1	6	5	1	90	300

SUMMARY OF DRAINAGE QUANTITIES

STR. NO.	LOCATION	STORM DRAIN PIPE 18 INCH H=1-10	STORM DRAIN PIPE 24 INCH H=1-10	STORM DRAIN PIPE 30 INCH H=1-10	STORM DRAIN PIPE 36 INCH H=1-10	FOUNDATION BACKFILL MATERIAL TP II	JACK OR BORE PIPE	CATCH BASINS GROUP I H=6' OR LESS	CATCH BASINS GROUP I ADD. DEPTH	DROP INLETS STD 9031S OR 1019A GROUP I H=6' OR LESS	DROP INLETS STD 9031S OR 1019A GROUP I ADD. DEPTH	MANHOLES STD 1011A TYPE I H=6' OR LESS	REMARKS
		LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	CU. YDS.	LIN. FT.	EACH	LIN. FT.	EACH	LIN. FT.	EACH	
A1	53+08	21										1	GA. STD 1011-A
A2	52+87	90						1					GA STD. 1033-D
A3	51+97	107						1					GA. STD 1033-D
A4	50+90	102						1					GA. STD 1033-D
A5	49+88	92						1					GA. STD 1033-D
A6	48+96	135						1					GA. STD 1033-D
A7	47+61.29	59						1					GA. STD 1033-D
A8	47+04.16											1	GA. STD 1011-A
A1.1	53+08	15								1			GA. STD 1019-A TYPE C
A3.1	51+92.81	21								1			GA. STD 1019-A TYPE C
A4.1	50+86.31	22								1			GA. STD 1019-A TYPE C
A5.1	49+88	20								1			GA. STD 1019-A TYPE C
B1	53+90.82	63										1	GA. STD 1011-A
B2	53+28	146						1					GA. STD 1033-D
B3	51+82	136						1					GA. STD 1033-D
B4	50+46	163						1					GA. STD 1033-D
B5	48+83	78								1			GA. STD 1019-A TYPE E W/ HOOD
B6	48+05	46						1					GA. STD 1033-D
B7	47+62.55									1			GA. STD 1019-A TYPE C
B3.1	51+68.96	29								1			GA. STD 1019-A TYPE C
B5.1	48+52.53	38								1			GA. STD 1019-A TYPE C
	SHEET TOTAL:	1383	0	0	0	0	0	10	0	8	0	3	

TEMPORARY EROSION CONTROL

	TEMPORARY GRASSING	CONSTR. & REMOVE INLET SEDIMENT TRAP	MAINT. OF INLET SEDIMENT TRAP	TEMPORARY SILT FENCE TYPE A	TEMPORARY SILT FENCE TYPE C	MAINT. OF SILT FENCE TYPE A	MAINT. OF SILT FENCE TYPE C	CONSTR. & REMOVE TEMP. DITCH CHECKS	CONSTR. & REMOVE TEMP. SEDIMENT BARRIER OR BALED STRAW CHECK DAM	WATER QUALITY MONITORING AND SAMPLING	WATER QUALITY INSPECTIONS
	ACRES	EACH	EACH	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	EA	EA	EACH	MONTHS
TOTAL:	1	21	21	1366	6479	683	3240	48	--	2	18
AS DIRECTED BY ENGINEER:	--	--	--	4	21	2	10	--	3000	--	--
PROJECT TOTAL:	1	21	21	1370	6500	685	3250	48	3000	2	18

FIELD ENGINEERS OFFICE TP 3
1 EACH

UNDERDRAIN PIPE INCL DRAINAGE AGGR, 6IN	
PROJECT TOTAL:	1000 LF

SUMMARY OF SURFACING QUANTITIES

LOCATION	ROADWAY PAVING ASPHALTIC CONCRETE RECYCLED ASPH CONC, 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC, 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC, 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	MILL ASPH CONC PVMT VAR. DEPTH	BITUMINOUS TACK COAT	GRADED AGGREGATE BASE COURSE, INCL MATL	CLASS B CONC. BASE OR PVMT WIDENING	PVMT REINF FABRIC STRIPS TYPE 2	CONCRETE VALLEY GUTTER 8 INCH	8 IN X 30 IN CONC CURB & GUTTER TYPE 2	CONCRETE HEADER CURB 6 INCH TYPE 2	CONCRETE SIDEWALK 4 INCH
	TON	TON	TON	SQ. YD.	GAL	TON	CU. YD.	LIN. FT.	SQ. YD.	LIN. FT.	LIN. FT.	SQ YD.
SR 53	325	40	140	3650	150	560	10	310	220	1500	130	1380
AS DIRECTED BY ENGINEER:	--	--	--	--	--	--	--	--	--	--	--	--
PROJECT TOTAL:	325	40	140	3650	150	560	10	310	220	1500	130	1380

SUMMARY OF SURFACING QUANTITIES

LOCATION	DRIVEWAYS RECYCLED ASPH CONC, 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	DRIVEWAY CONCRETE, 6 INCH	DRIVEWAY CONCRETE, 8 INCH	GRADED AGGREGATE BASE COURSE, INCL MATL	AGGREGATE SURFACE COURSE
	TON	SQ. YD.	SQ. YD.	TON	TON
SR 53	2	13	331	127	50
AS DIRECTED BY ENGINEER:	3	2	4	3	--
PROJECT TOTAL:	5	15	335	130	50

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

SUMMARY QUANTITIES

SR 53 STREETSCAPE

DRAWING No. 6- 01

SUMMARY OF LANDSCAPING QUANTITIES

	STRAIGHT GRANITE CURB 5 IN X 6 IN TYPE A	CONCRETE PAVERS	BRICK WALL 18 IN HT.	SOD	AMELANCHIER CANADENSIS	CARPINUS CAROLINIANA	LIRIOPE MUSCARI 'BIG BLUE'	HYDRANGEA QUERCIFOLIA	MAGNOLIA GRANDIFLORA	MAGNOLIA SOULANGIANA	MAGNOLIA VIRGINIANA	MULHENBERGIA CAPILLARIS	QUERCUS NUTTALLI	TAXODIUM DISTICHUM	ULMUS AMERICANA	THUJA OCCIDENTALIS VINE, SHRUB AND TREE PLANTING	CLETHRA ALNIFOLIA VINE, SHRUB AND TREE PLANTING	WASTE RECEPTACLE UNIT	BENCH
	LF	SF	LF	SY	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
	769	7600	514	450	9	3	1008	5	5	1	5	3	6	13	22	29	73	6	7
TOTAL:	769	7600	514	450	9	3	1008	5	5	1	5	3	6	13	22	29	73	6	7

SUMMARY OF SIGNING QUANTITIES

		HIGHWAY SIGNS			POSTS		
		TYPE 9 REFL SHEETING					
		TP 1 MATL			TYPE 7 (2" 14GA)		
					LENGTH		
LOCATION	CODE	SIZE	QTY	SQ. FT.	LIN. FT.	QTY	LIN. FT.
STA 44+83	RI-1(36)	36" X 36"	1	9.0	13.0	1	13.0
STA 49+19	RI-1(36)	36" X 36"	1	9.0	13.0	1	13.0
STA 49+58	RI-1(36)	36" X 36"	1	9.0	13.0	1	13.0
TOTAL:				27.0			39.0

SUMMARY OF STRIPING QUANTITIES

	THERMOPLASTIC PAVEMENT MARKING									
	SOLID STRIPE				SKIP STRIPE	HATCHING		ARROW	RAISED PVMNT MARKERS	
	WHITE 5 INCH	YELLOW 5 INCH	WHITE 8 INCH	WHITE 24 INCH	WHITE 5 INCH	WHITE	YELLOW			
LOCATION	LF	LF	LF	LF	GLF	SY	SY	TP 2 EA	TP 1 EA	TP 3 EA
SR 53	1982	2374	746	52	150		203	4	23	12
TOTAL:	1982	2374	746	52	150		203	4	23	12
AS DIRECTED BY ENGINEER:	8	6	4	--	--		7	--	--	--
PROJECT TOTAL:	1990	2380	750	52	150		210	4	23	12

GENERAL NOTES

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA STANDARDS SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. 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 A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN.

4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.

4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

4c. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).

5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.

6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED.

7. TYPE 4 POSTS SHALL BE INSTALLED WITH A BREAK AWAY FOOTING, SEE DETAIL FOR ADDITIONAL INFORMATION ON BREAK AWAY FOOTING DESIGN.

8. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.

9. TYPE III (ENCAPSULATED LENS) 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.

10. TYPE IX (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (RI-1, RI-2, RI-3A, RI-4A, R5-1).

11. TYPE IX (WIDE ANGLE PRISMATIC) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (SI-1, S2-1, S3-1, S4-3 AND TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (WII-1) SIGNS, AND PEDESTRIAN CROSSING (WII-2 AND WIIA-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE VI (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.

12. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

14. INTERSTATE SHIELDS SHALL CONTAIN THE GEORGIA. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.

15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.

16. REFER TO PLAN SHEETS FOR LOCATIONS OF THE DISTRICT ENGINEER'S OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.

17. THE CONTRACTOR WILL, AS REQUESTED BY THE OWNER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATES OR ARE CONTRARY TO THESE SIGN PLANS. NO SEPARATE PAYMENT WILL BE MADE FOR SIGN REMOVAL. REPLACE/RESET EXISTING SIGNS. RETURN TO GOOD CONDITION OR REPLACE AS REQUIRED.

18. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND GA DOT STANDARD AND SPECIFICATIONS AND DRAWINGS. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT.

19. ALL WORK WITHIN GEORGIA D.O.T. RIGHT-OF-WAY SHALL CONFORM TO GEORGIA D.O.T. STANDARDS AND SPECIFICATIONS FOR ROADS AND BRIDGES.

20. ALL SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS. HANDICAP RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GEROGIA D.O.T. STANDARDS AND SPECIFICATIONS AND MEET ADA REQUIREMENTS.

21. ALL PAVEMENT MARKINGS, STRIPES, ARROWS, WORDS, ETC. SHALL BE HOT APPLIED THERMOPLASTIC UNLESS INDICATED OTHERWISE.

22. TYPE 9, REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS UNLESS OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.

23. ALL SIGNING, MARKING, AND TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2003 EDITION.

24. ALL RED SERIES SIGNS ARE TO USE TYPE 9 REFLECTIVE SHEETING.

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

SUMMARY QUANTITIES

SR 53 STREETSCAPE

DRAWING No. 6-02

QUANTITIES REQUIRED BY AMENDMENT

DATE	ITEM NO.	AMENDMENT DATE	AMENDMENT NUMBER	DESCRIPTION	UNIT	ORIGINAL QUANTITY	REQUIRED BY AMENDMENT QUANTITY

$REF15$ $REF14$ $REF13$ $REF12$ $REF11$
$REF10$ $REF09$ $REF08$ $REF07$ $REF06$
GPLN $REF05$ $REF04$ $REF03$ $REF02$ $REF01$

NOT RELEASED
FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

QUANTITIES
(AMENDMENT)

SR 53 STREETSCAPE

DRAWING No. 7- 01

QUANTITIES REQUIRED ON CONSTRUCTION

DATE	ITEM NO.	DESCRIPTION	UNIT	ORIGINAL QUANTITY	PREVIOUS QUANTITY	REQUIRED ON CONSTRUCTION QUANTITY

$REF15$ $REF14$ $REF13$ $REF12$ $REF11$
$REF10$ $REF09$ $REF08$ $REF07$ $REF06$
GPLN $REF05$ $REF04$ $REF03$ $REF02$ $REF01$

NOT RELEASED
FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

QUANTITIES
(CONSTRUCTION)

SR 53 STREETSCAPE

DRAWING No. 8- 01

11/3/2010 3:25:14 PM	GDOTRoad	p:\02\02358\008\dgn\009097cp01.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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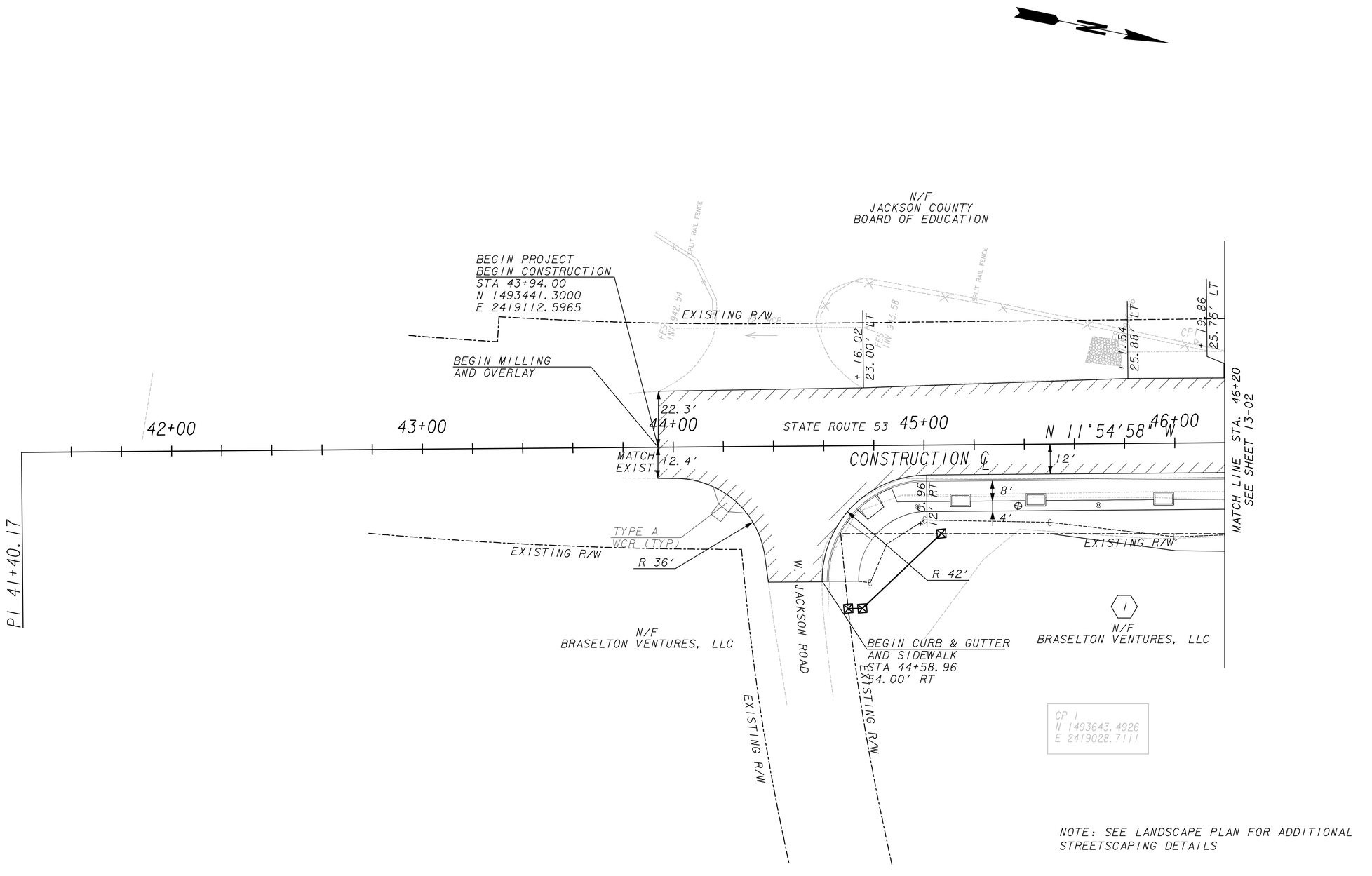


NOTE: SEE LANDSCAPE PLAN FOR ADDITIONAL STREETSCAPING DETAILS

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

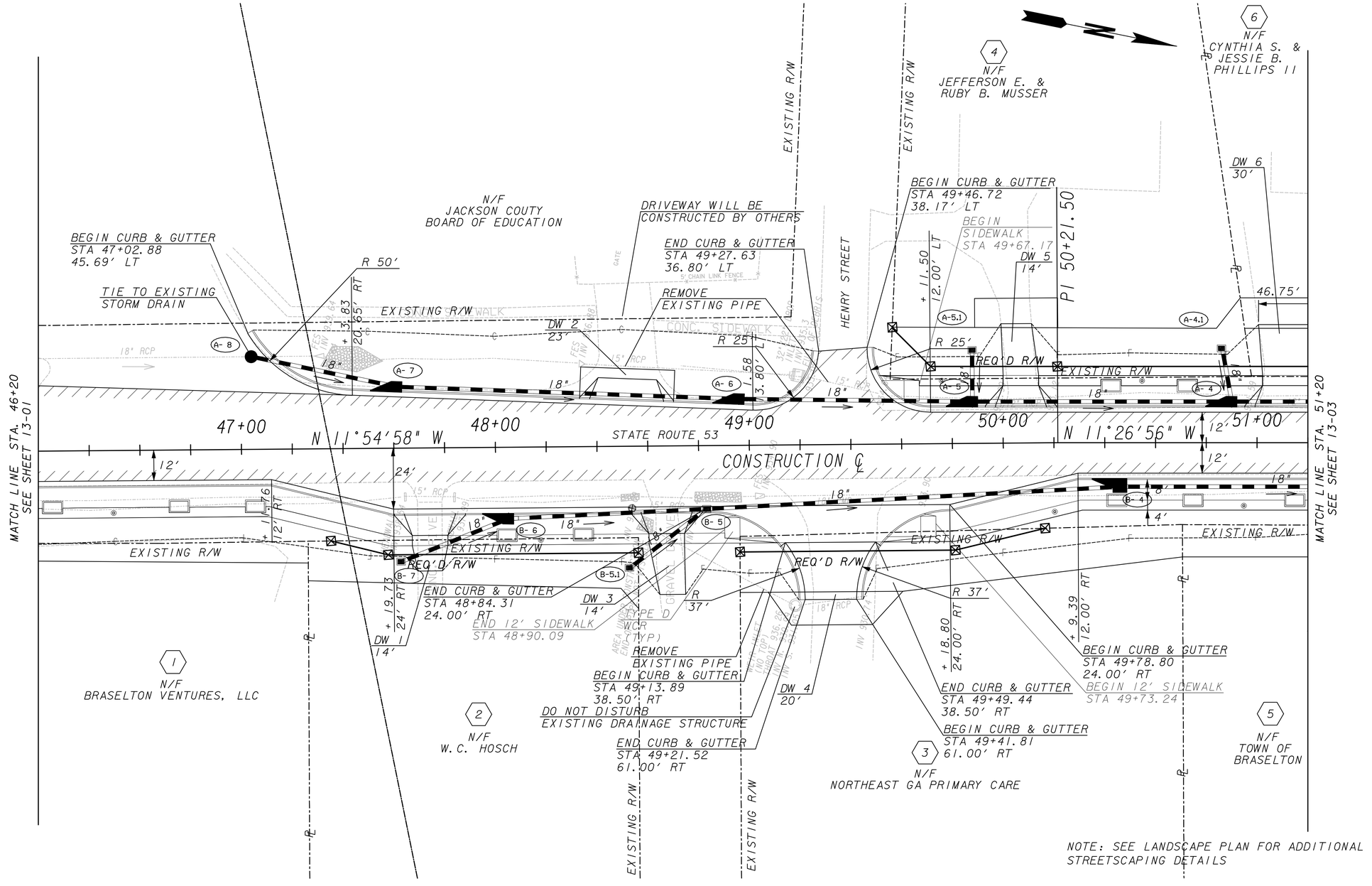
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

MAINLINE PLAN

SR 53 STREETSCAPE

DRAWING No. 13-01



EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

EXISTING PROPERTY LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
R/W AND LIMIT OF ACCESS
EXISTING R/W LINE
PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

MAINLINE PLAN

SR 53 STREETSCAPE

DRAWING No. 13-02

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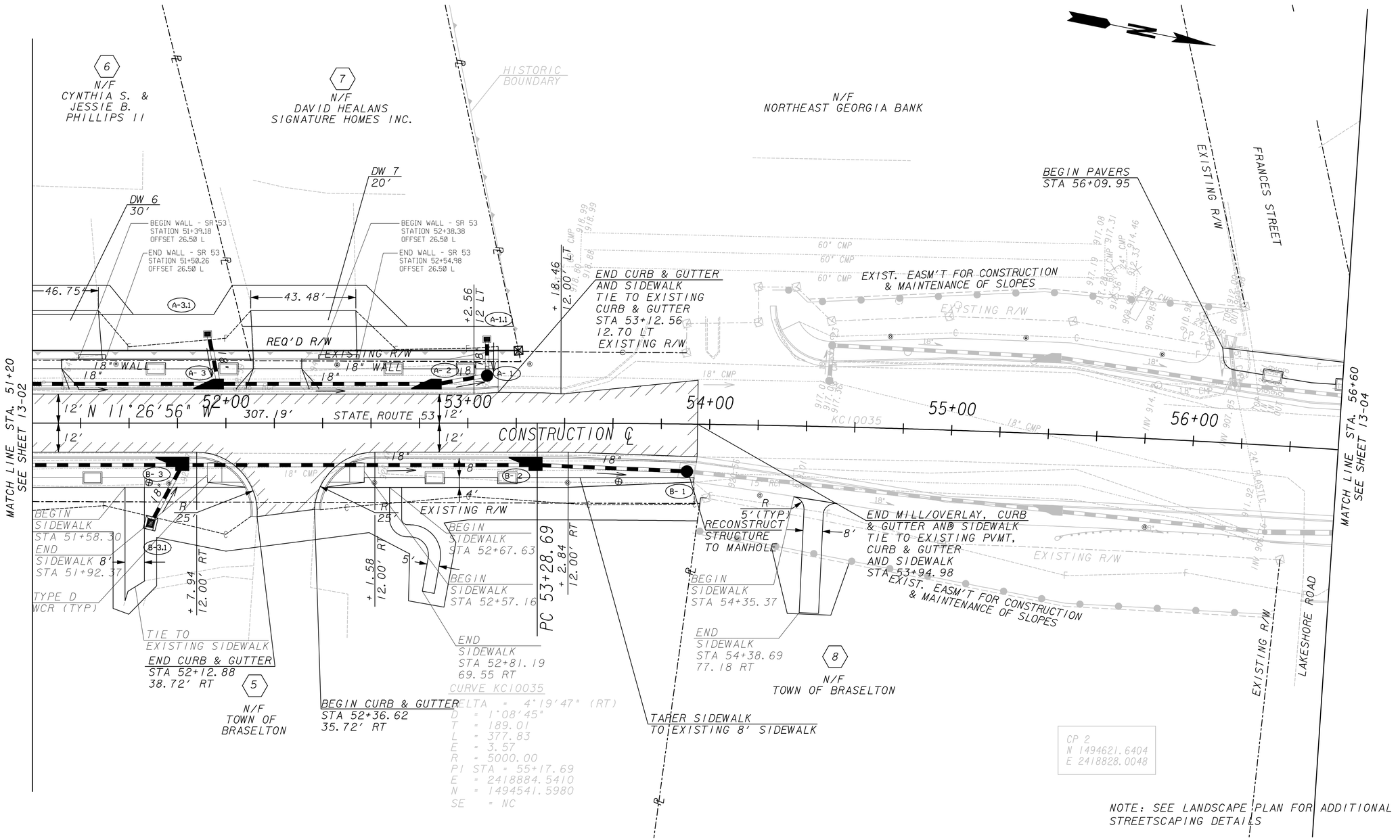

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

JJG

NOT RELEASED
FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

MAINLINE PLAN

SR 53 STREETSCAPE

DRAWING No. 13-03

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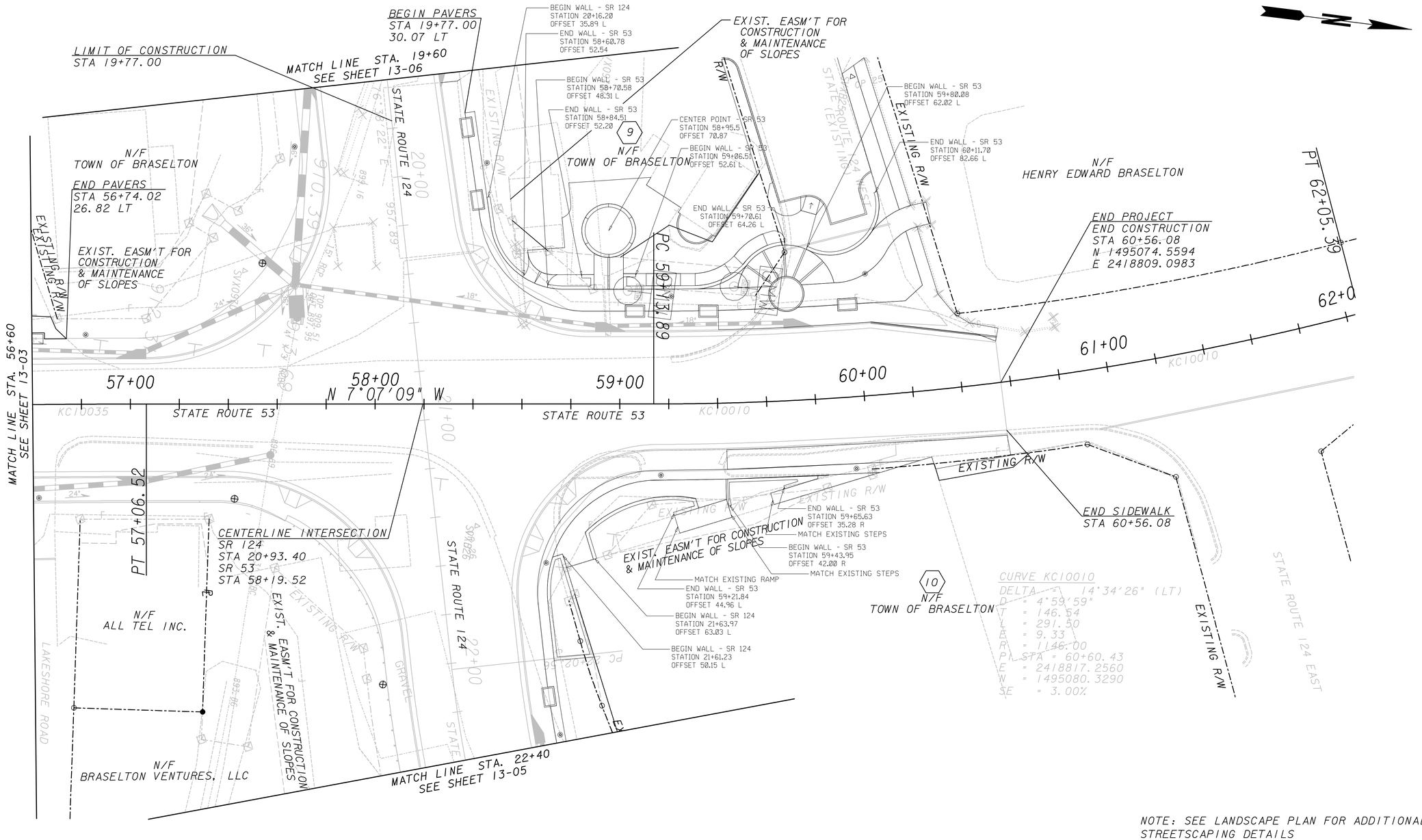

NOTE: SEE LANDSCAPE PLAN FOR ADDITIONAL STREETSCAPING DETAILS

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

MAINLINE PLAN

SR 53 STREETSCAPE

DRAWING No. 13-04

GPLN

11/3/2010 3:25:21 PM	GDOTRoad	p:\02\02358\008\dgn\009097cp05.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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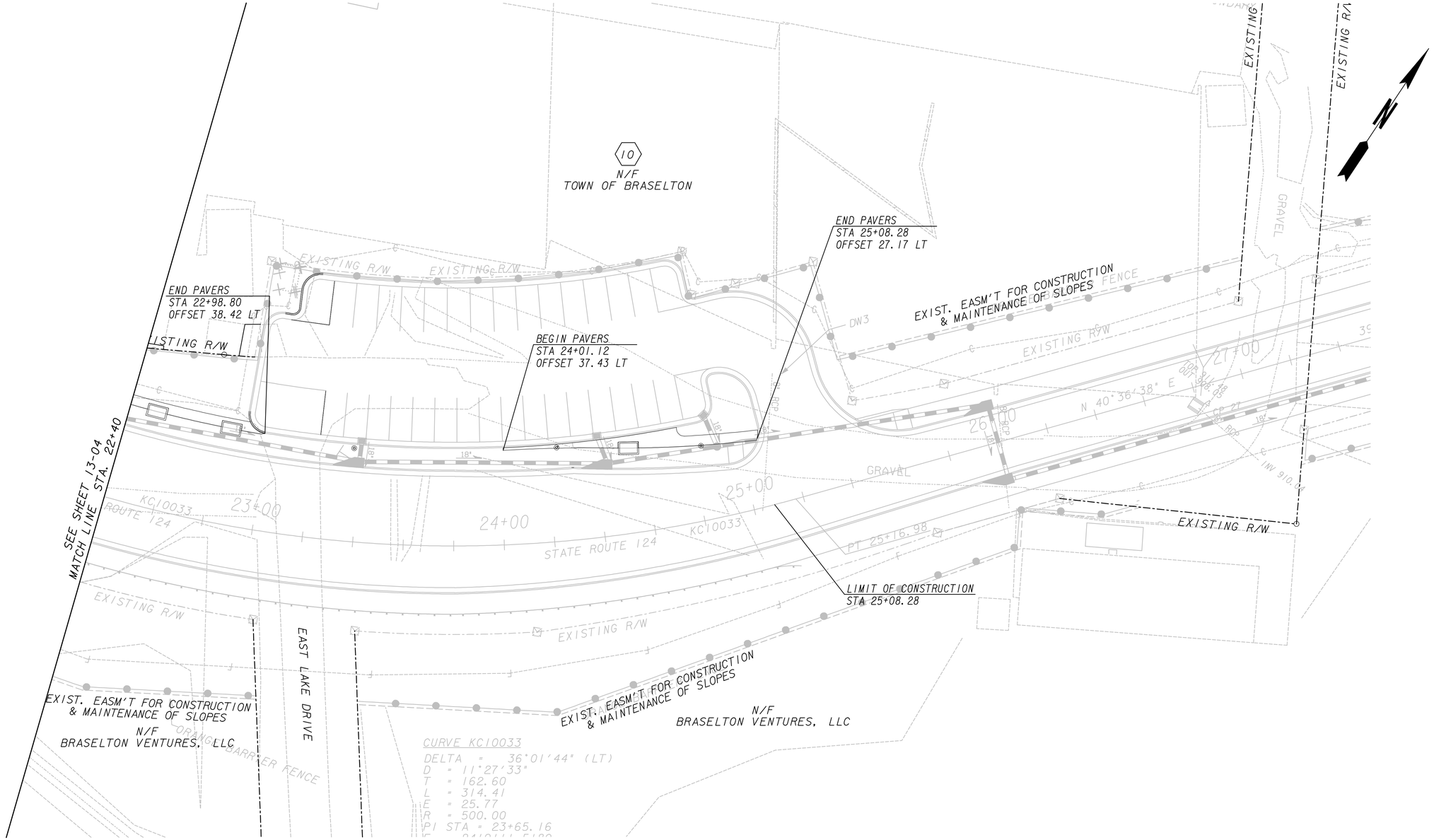

NOTE: SEE LANDSCAPE PLAN FOR ADDITIONAL STREETSCAPING DETAILS

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	REQUIRED R/W LINE
EASEMENT FOR CONSTR OF SLOPES	CONSTRUCTION LIMITS
EASEMENT FOR CONSTR OF DRIVES	R/W AND LIMIT OF ACCESS
	EXISTING R/W LINE
	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

MAINLINE PLAN

SR 53 STREETSCAPE

DRAWING No. 13-05

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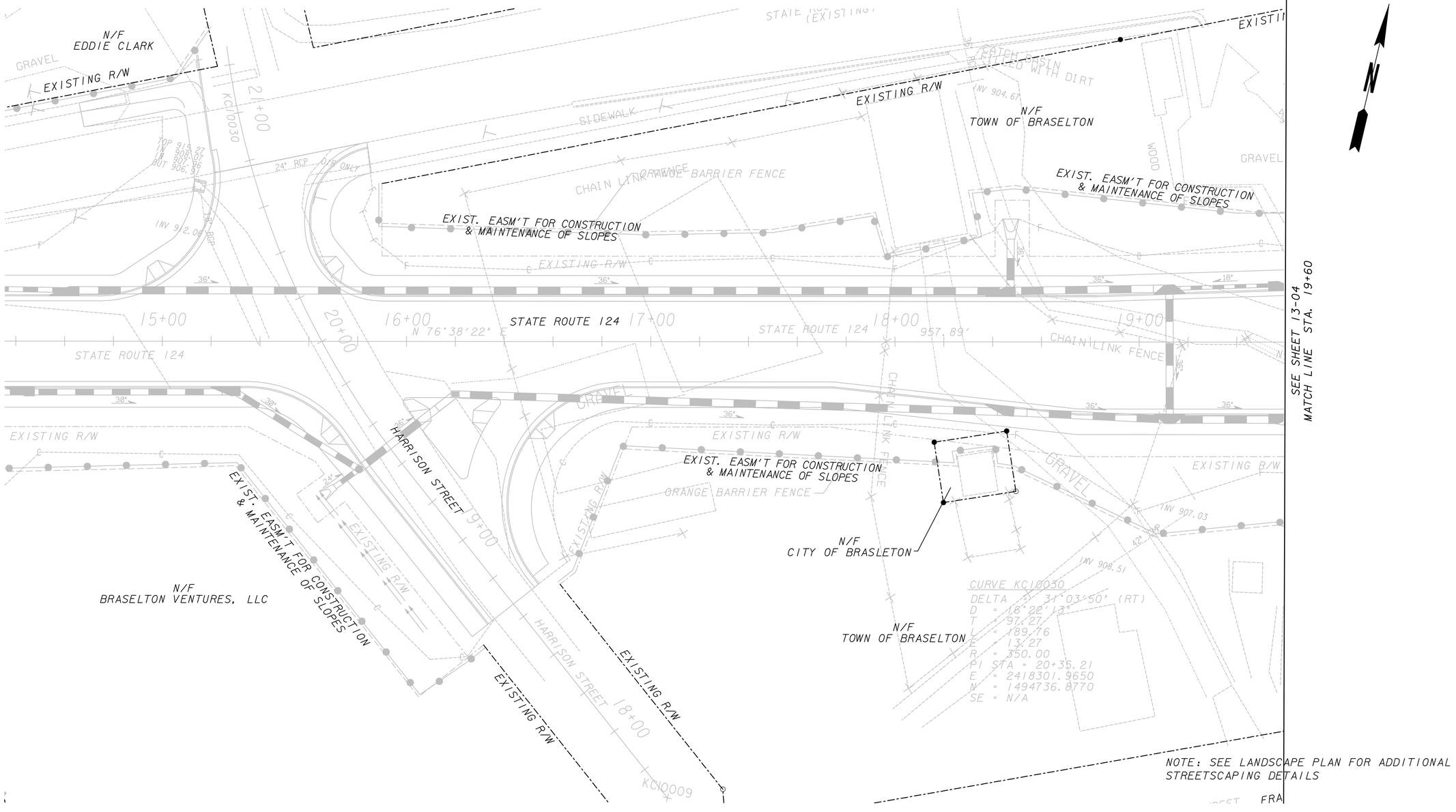


EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

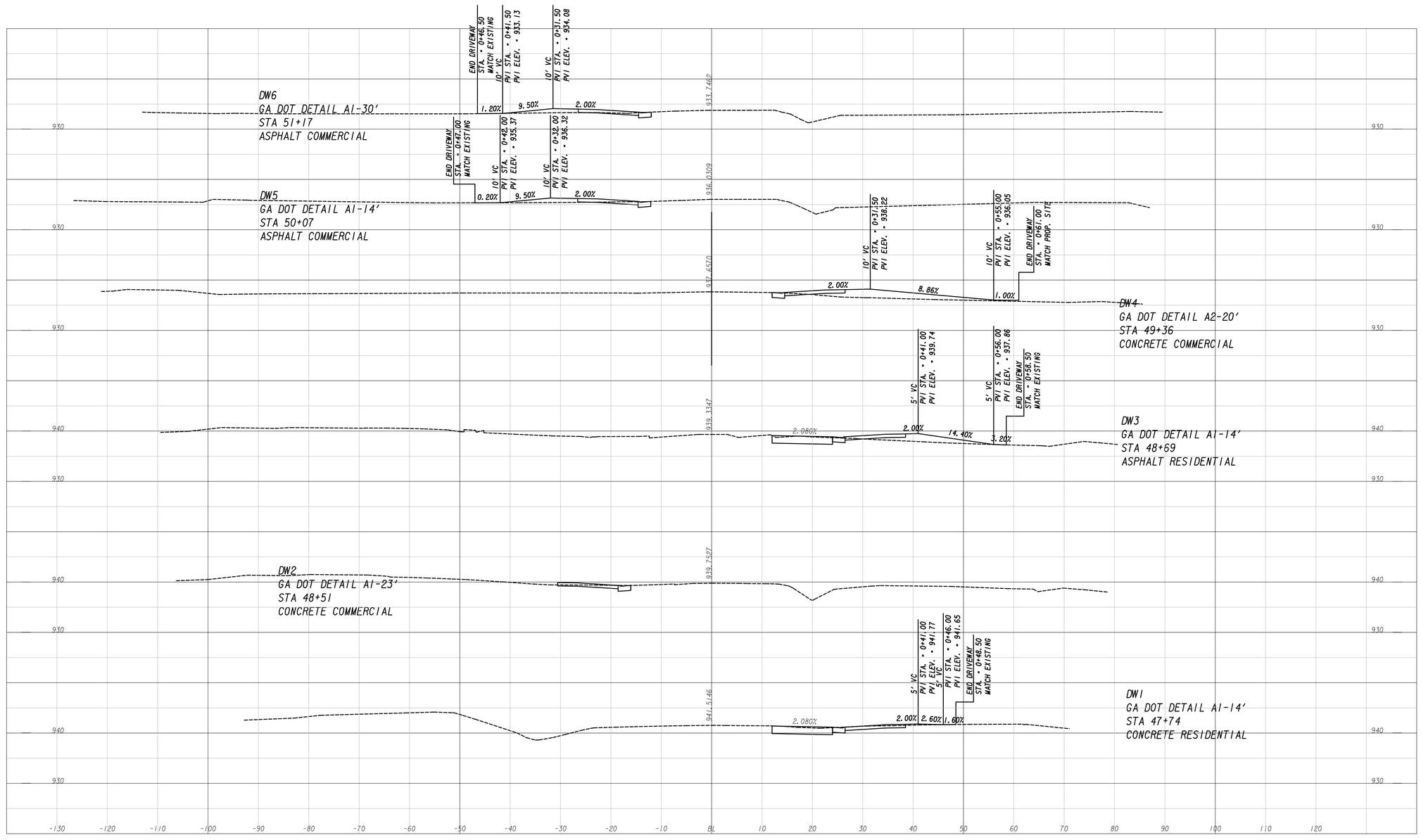
OFFICE:

MAINLINE PLAN

SR 53 STREETSCAPE

DRAWING No. 13-06

DATETIME$$$$	TIME$$$	GDOTRoad	p:\02\02358\008\dgn\009097dr01.dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray		ROAD.TBL		JACKSON	CSTEE-0009-00(097)	18	99



NOT RELEASED
FOR CONSTRUCTION

REVISION DATES		

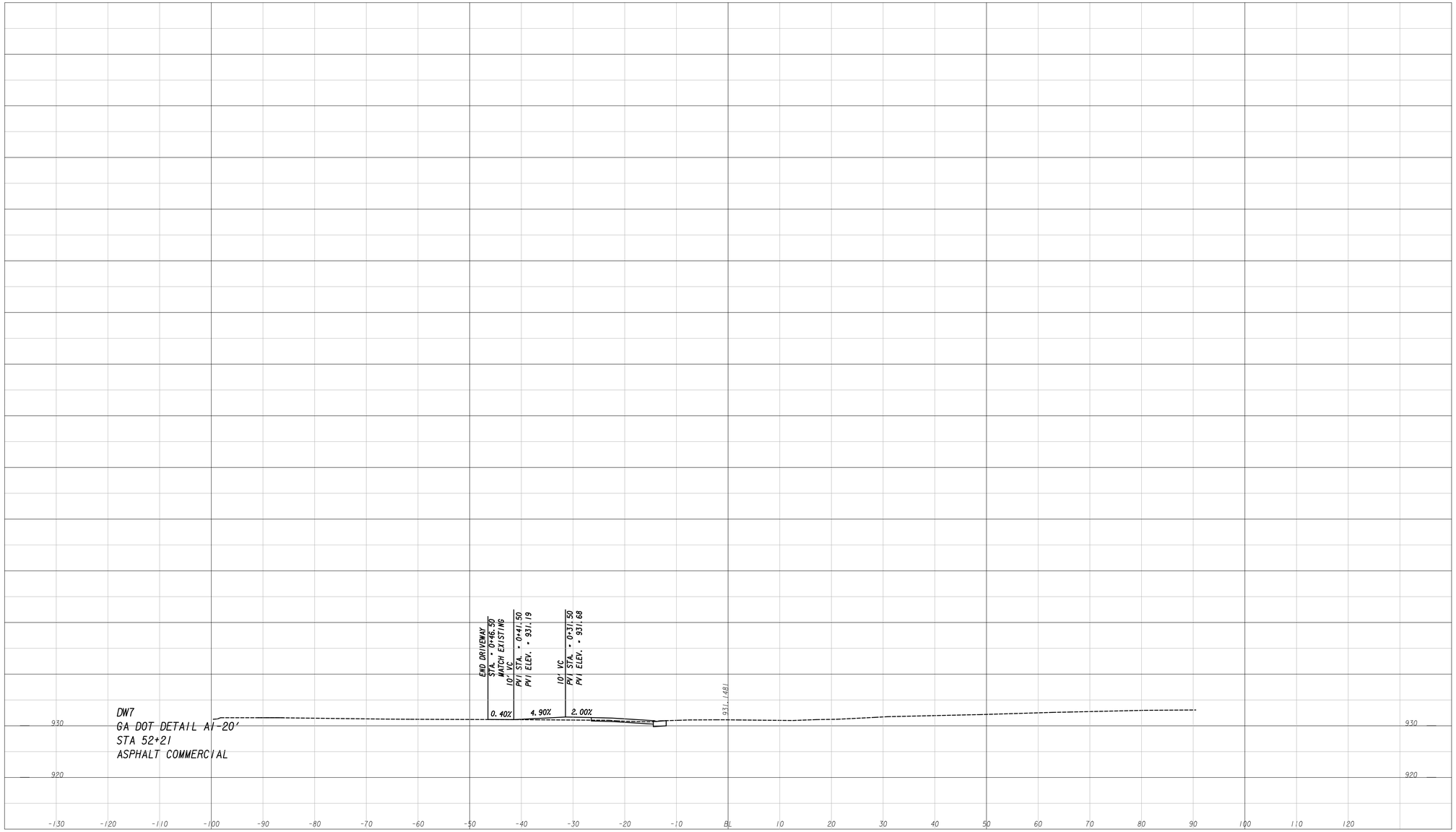
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

DRIVEWAY PROFILE

DRAWING No.
17- 01

DATETIME$$$	TIME$$$	GDOTRoad	p:\02\02358\008\dgn\009097dr01.dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray		ROAD.TBL		JACKSON	CSTEE-0009-00(097)	19	99



NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

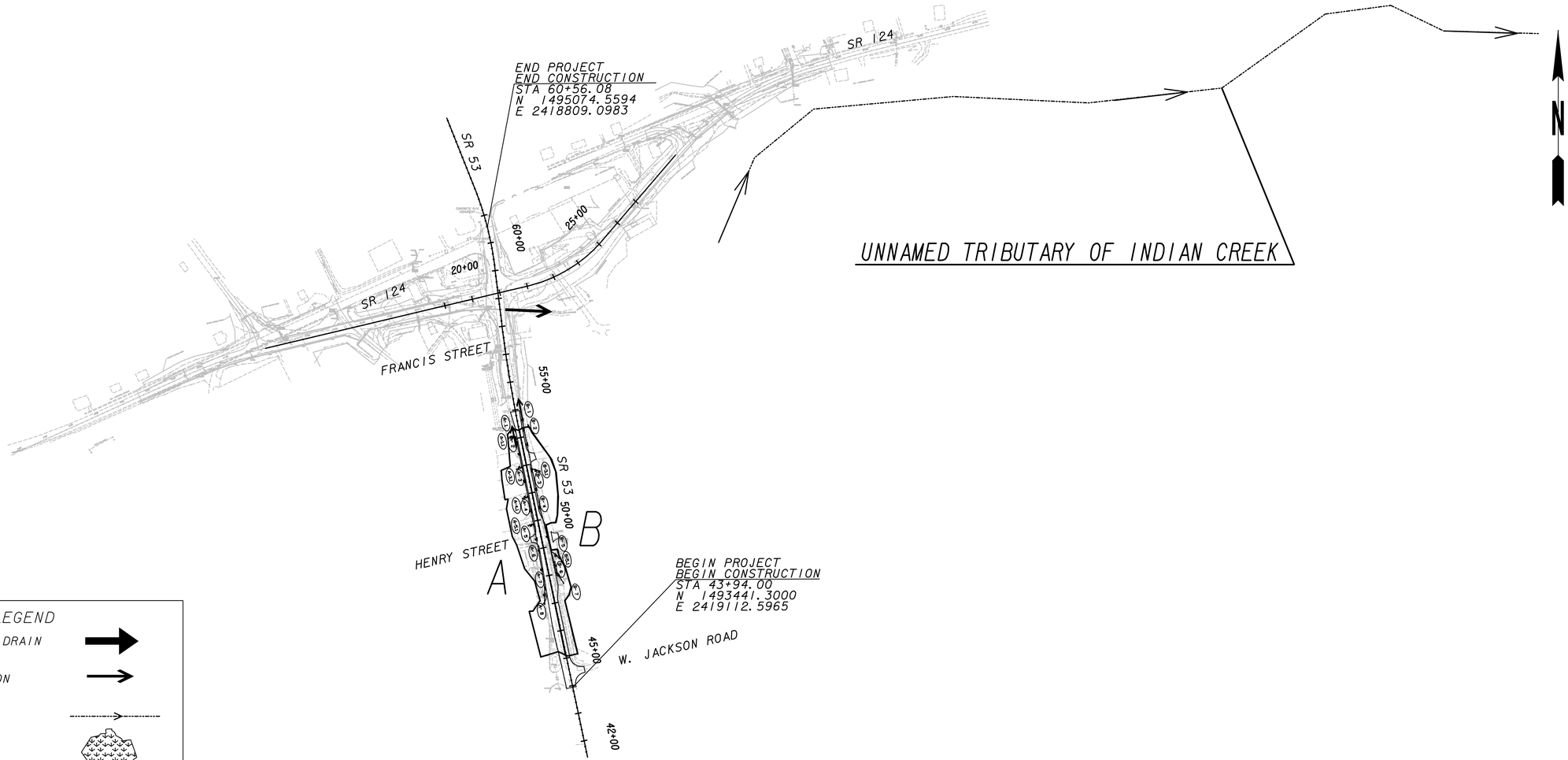
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

DRIVEWAY PROFILE

DRAWING No. 17- 02

11/3/2010 3:25:26 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097dm01.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSTEE-0009-00(097)	20	99



LEGEND

PROPOSED CROSS DRAIN

OUTFALL LOCATION

STREAM

WETLANDS

OUTFALL STRUCTURE	DRAINAGE BASIN	DRAINAGE AREA	DISTURBED DRAINAGE AREA	℄ STRUCTURE STATION	ALIGNMENT	OUTFALL CULVERT SIZE	OUTFALL CULVERT SKEW	RECEIVING WATERS	OUTFALL CHANNEL SLOPE
EXIST. CULVERT	A & B	2.54	0.75	57+42	S.R. 53	4' X 3' (BOX CULVERT)	79.70°	INDIAN CREEK	1.00%

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 200 400 800

REVISION DATES

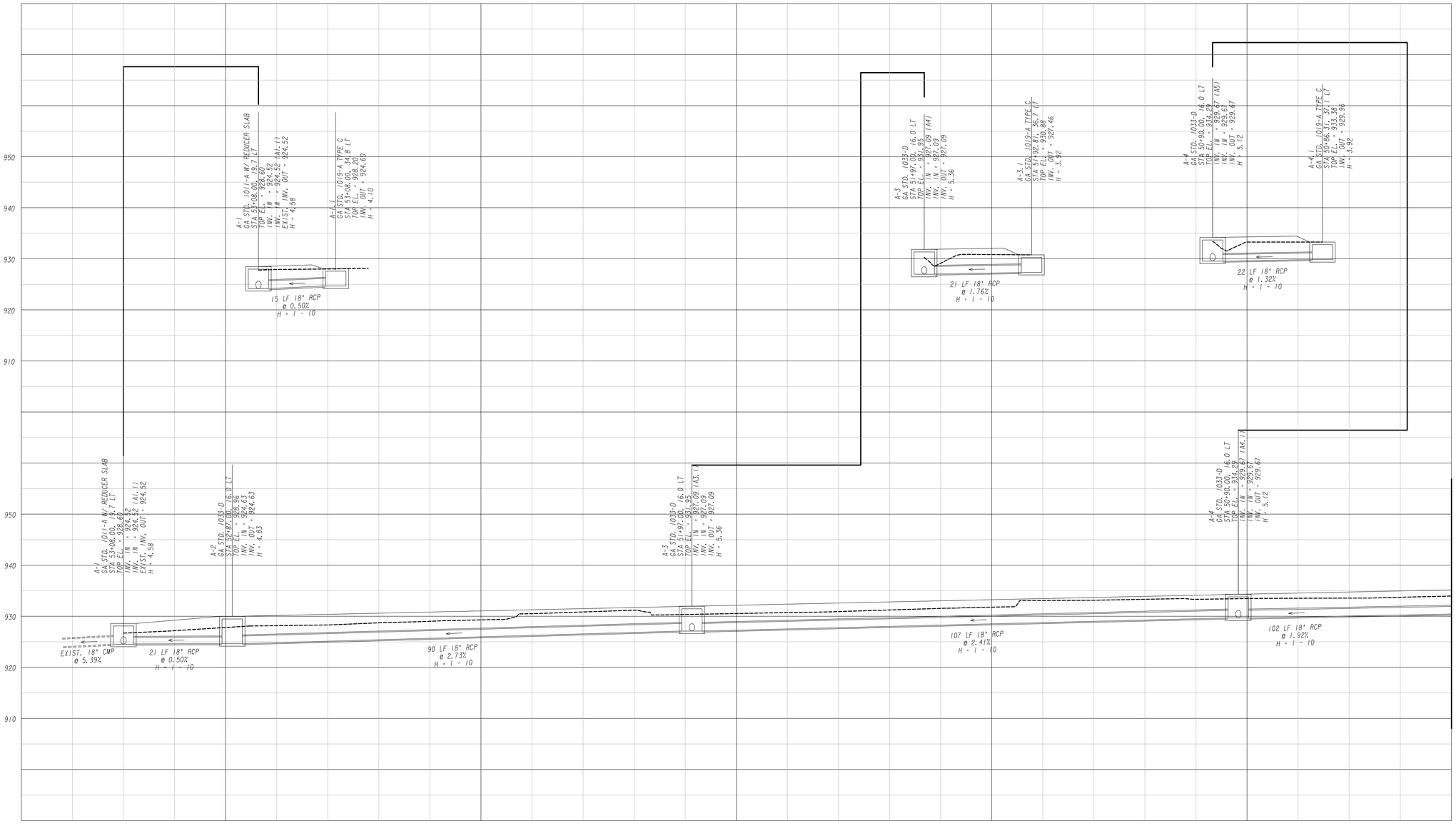
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

DRAINAGE AREA MAP

SR 53 STREETSCAPE

DRAWING No. 21-01

11/3/2010	3:25:26 PM	GDOTRoad	p:\02\02358\008\dgn\009097dp01.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray		ROAD.TBL		GA	CSTEE-0009-00(097)	21	99



NOT RELEASED FOR CONSTRUCTION

SCALE: H: 1" = 20'
V: 1" = 10'

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

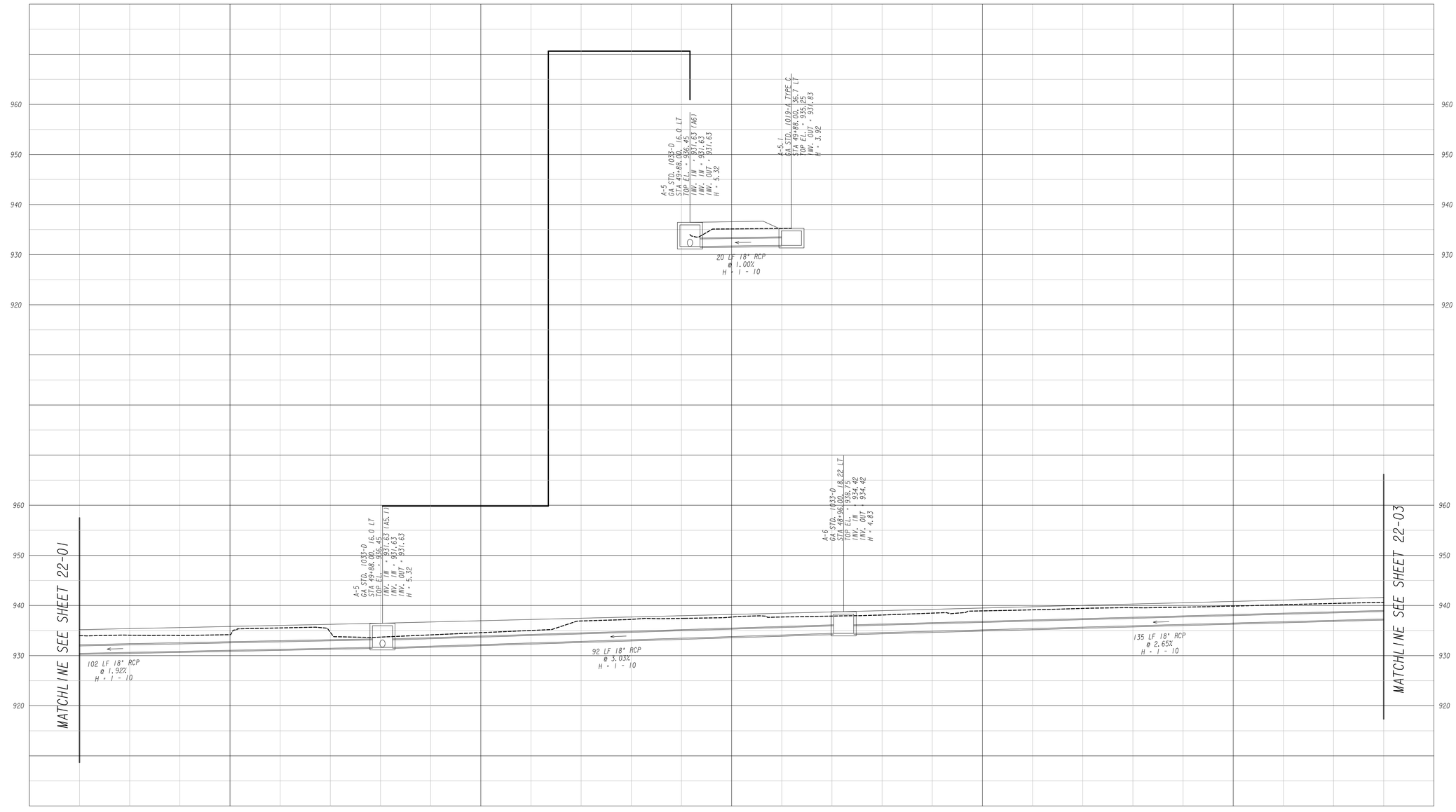
OFFICE:

DRAINAGE PROFILE

SR 53 STREETSCAPE

DRAWING No. 22-01

11/3/2010 3:25:27 PM	GDOTRoad	p:\02\02358\008\dgn\009097dp02.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray	ROAD.TBL		GA	CSTEE-0009-00(097)	22	99



NOT RELEASED FOR CONSTRUCTION

SCALE: H: 1" = 20'
V: 1" = 10'

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

DRAINAGE PROFILE

SR 53 STREETSCAPE

DRAWING No. 22-02

11/3/2010 3:25:27 PM	GDOTRoad	p:\02\02358\008\dgn\009097dp03.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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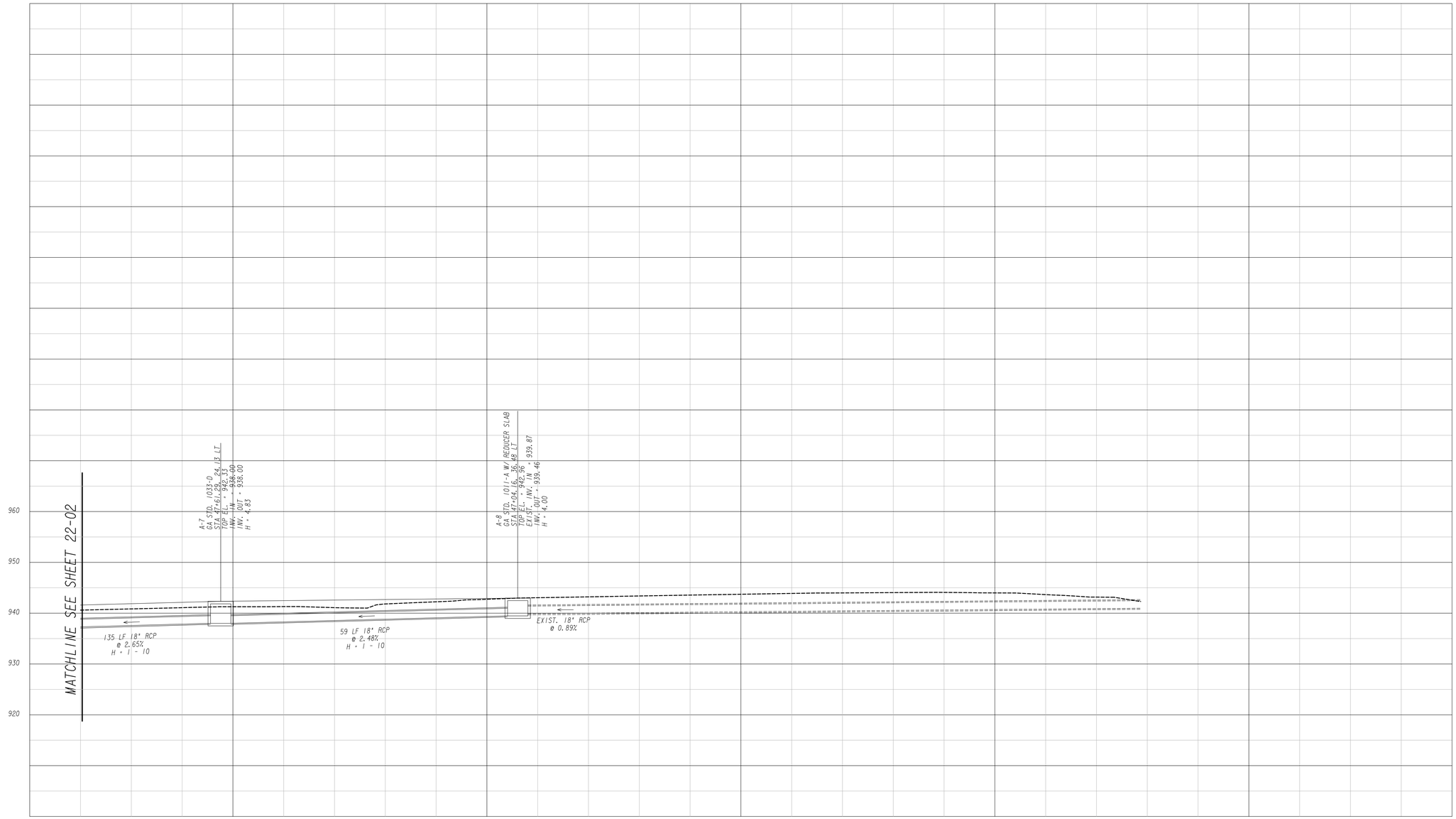

NOT RELEASED FOR CONSTRUCTION

SCALE: H: 1" = 20'
V: 1" = 10'

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

DRAINAGE PROFILE

SR 53 STREETSCAPE

DRAWING No. 22-03

11/3/2010 3:25:28 PM	GDOTRoad	p:\02\02358\008\dgn\009097dp04.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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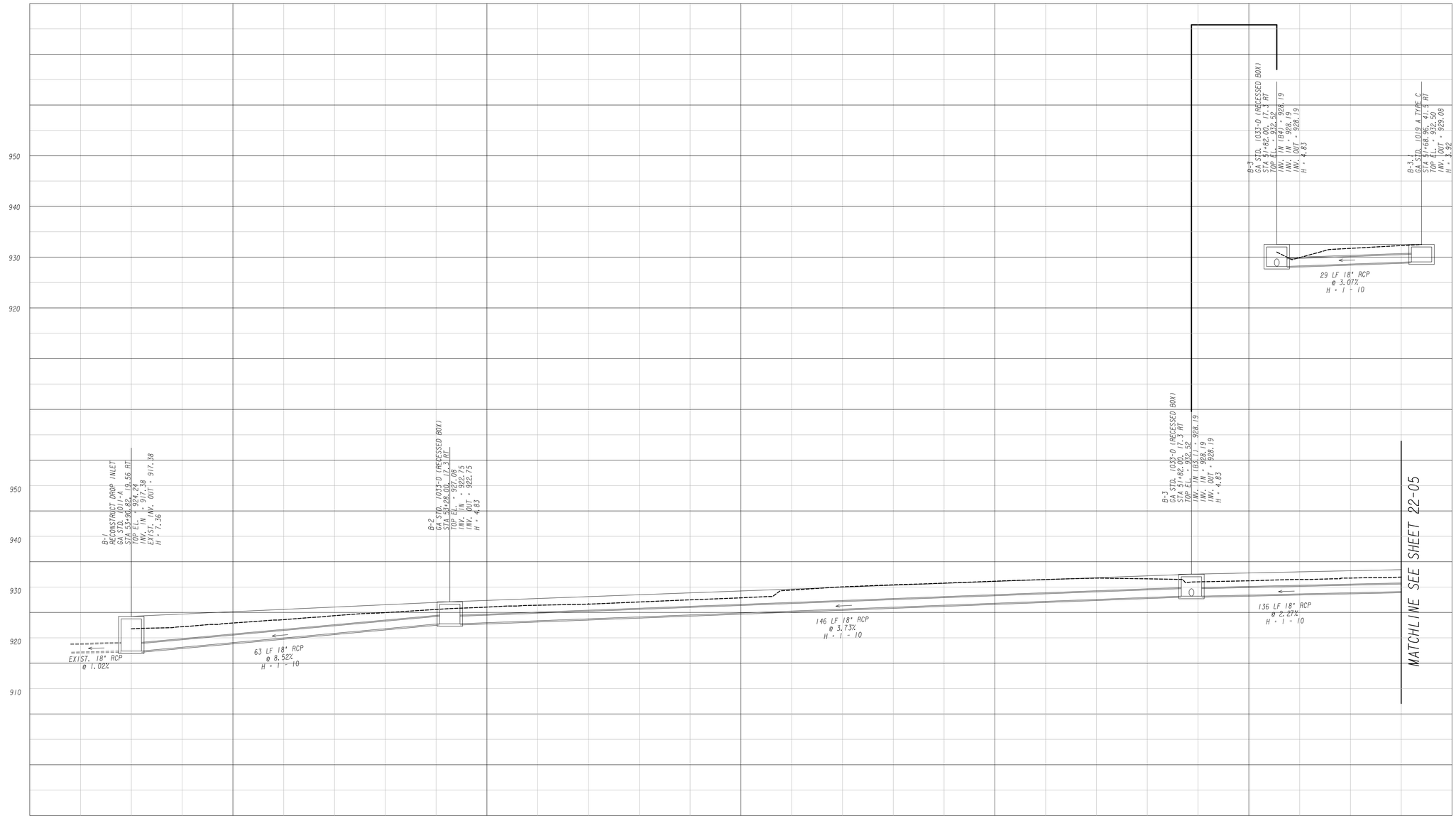

NOT RELEASED FOR CONSTRUCTION

SCALE: H: 1" = 20'
V: 1" = 10'

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

DRAINAGE PROFILE

SR 53 STREETSCAPE

DRAWING No. 22-04

11/3/2010 3:25:28 PM	GDOTRoad	p:\02\02358\008\dgn\009097dp05.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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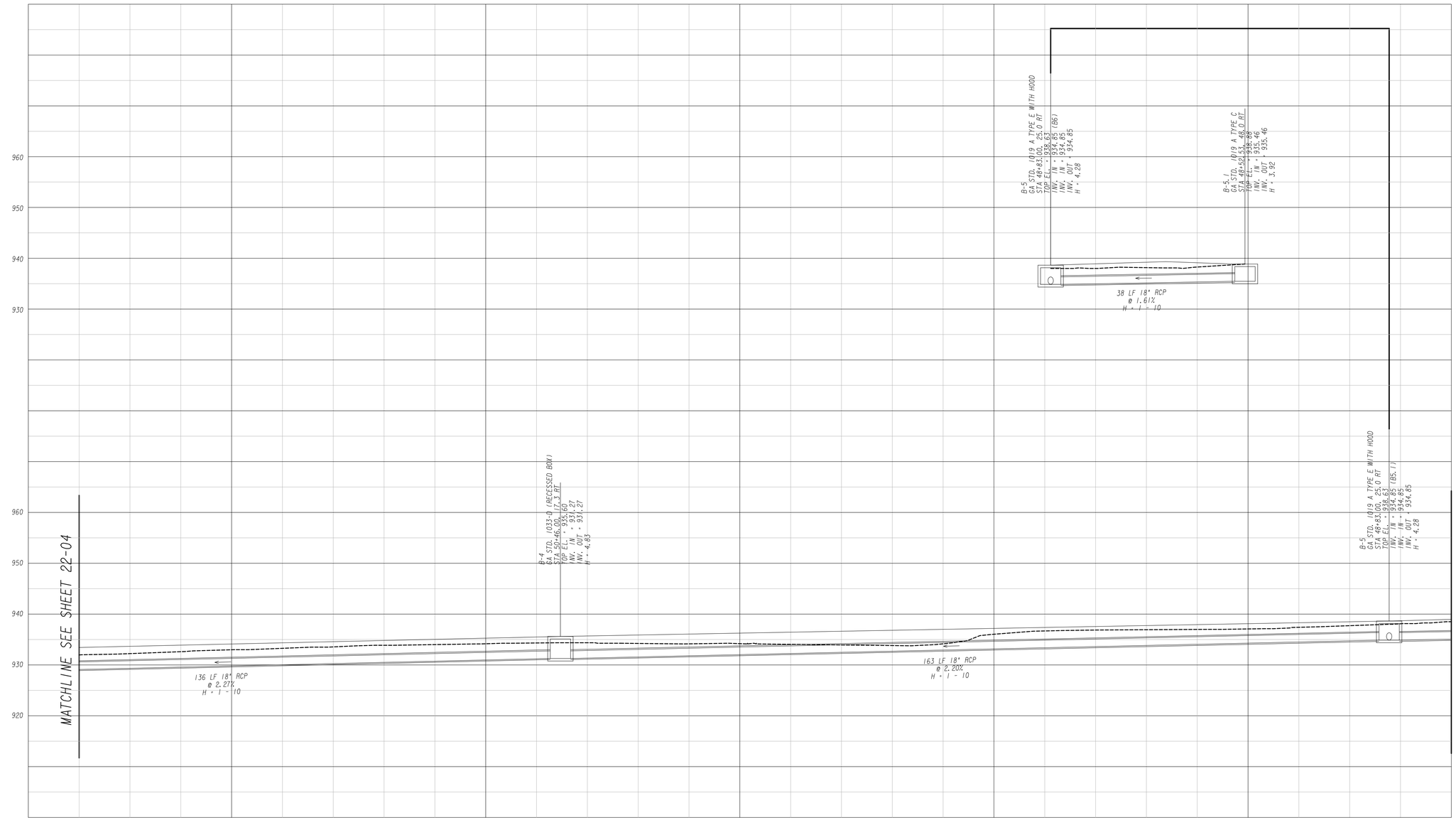


NOT RELEASED FOR CONSTRUCTION

SCALE: H: 1" = 20'
V: 1" = 10'

REVISION DATES		

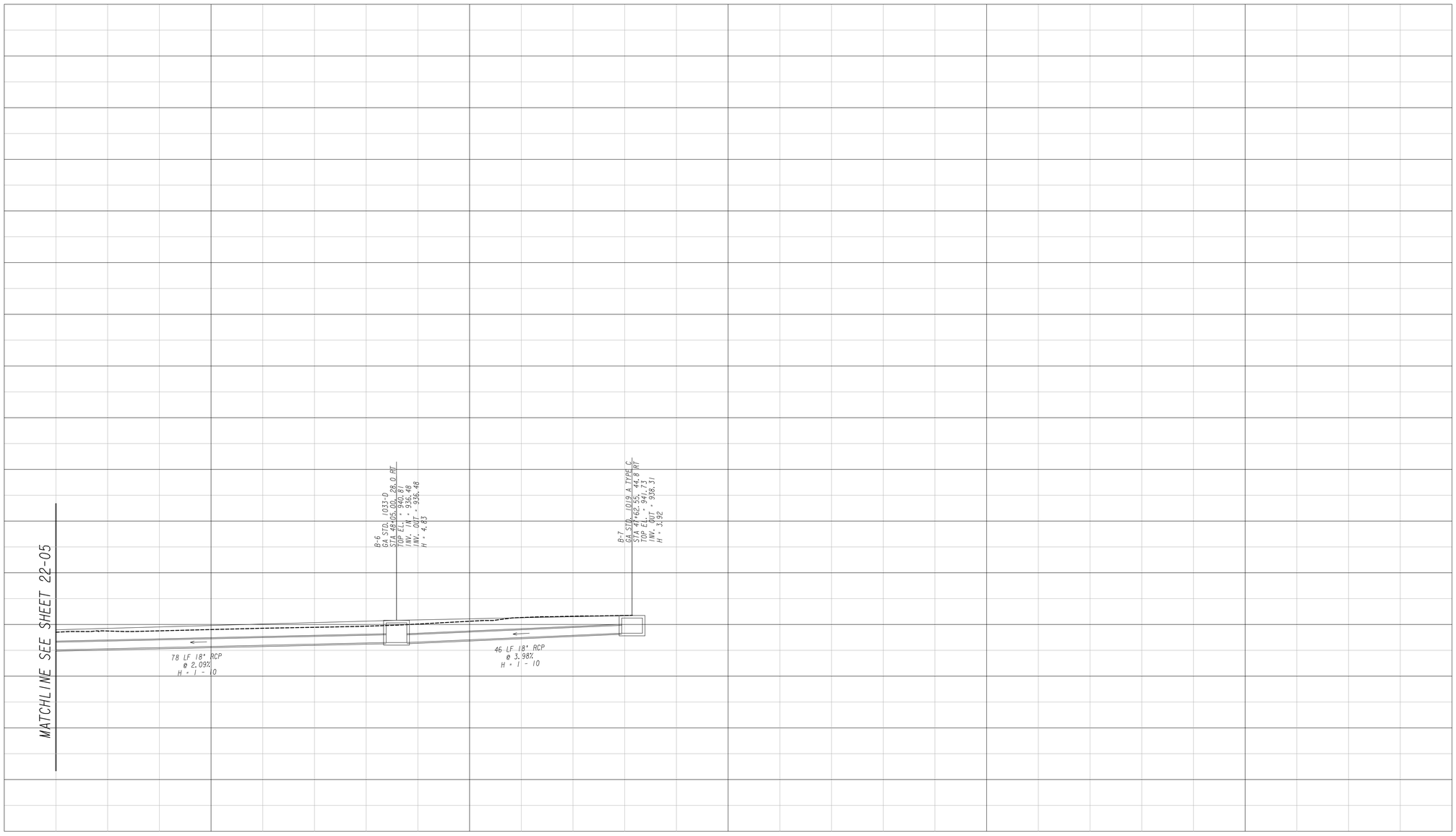
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

DRAINAGE PROFILE

SR 53 STREETSCAPE

DRAWING No. 22-05



NOT RELEASED FOR CONSTRUCTION

SCALE: H: 1" = 20'
V: 1" = 10'

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

DRAINAGE PROFILE

SR 53 STREETSCAPE

DRAWING No. 22-06

DATETIME$$$	TIME$$$	GDOTRoad	p:\02\02358\008\dgn\009097xs01.dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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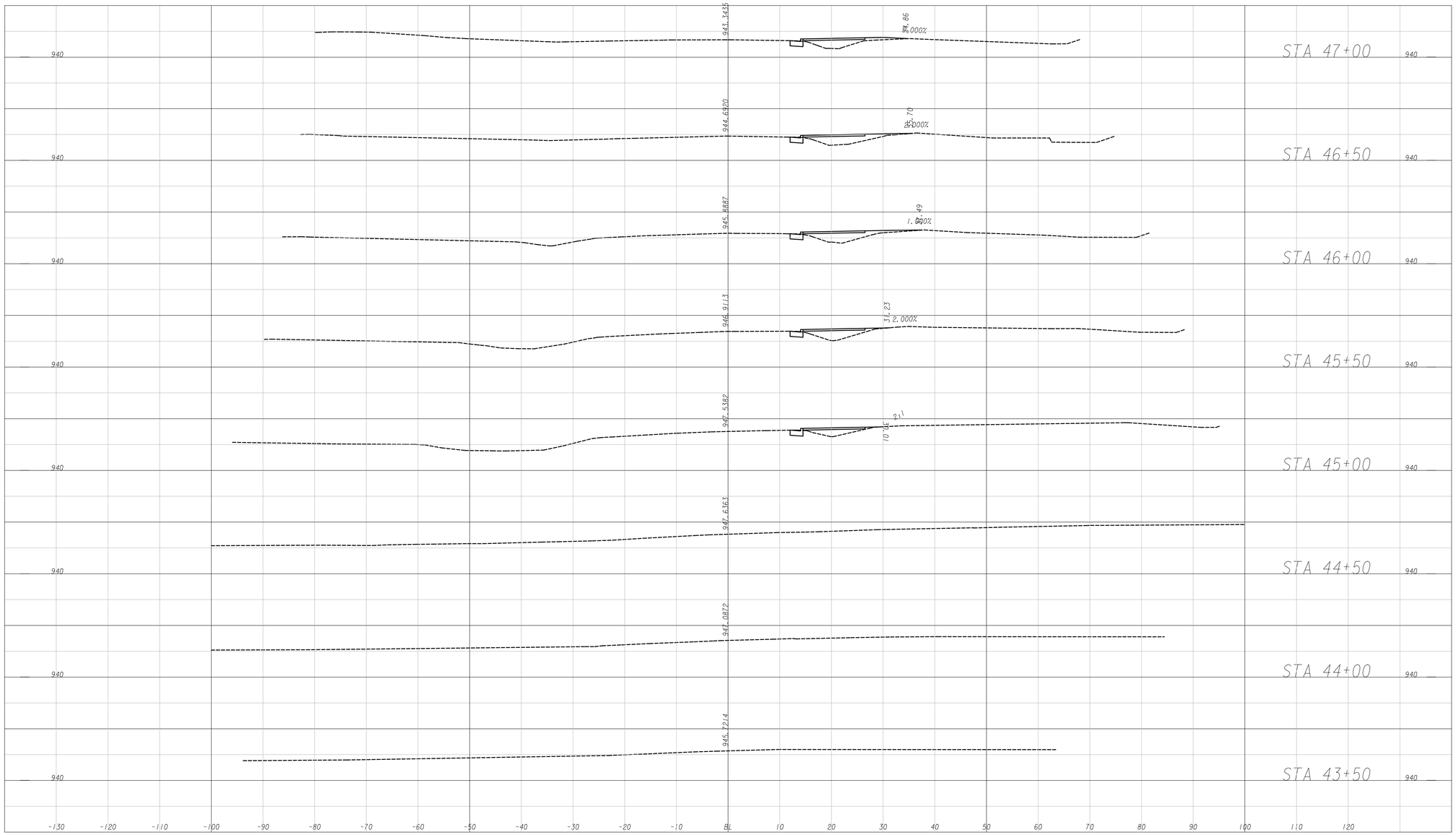


NOT RELEASED FOR CONSTRUCTION

SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL

REVISION DATES

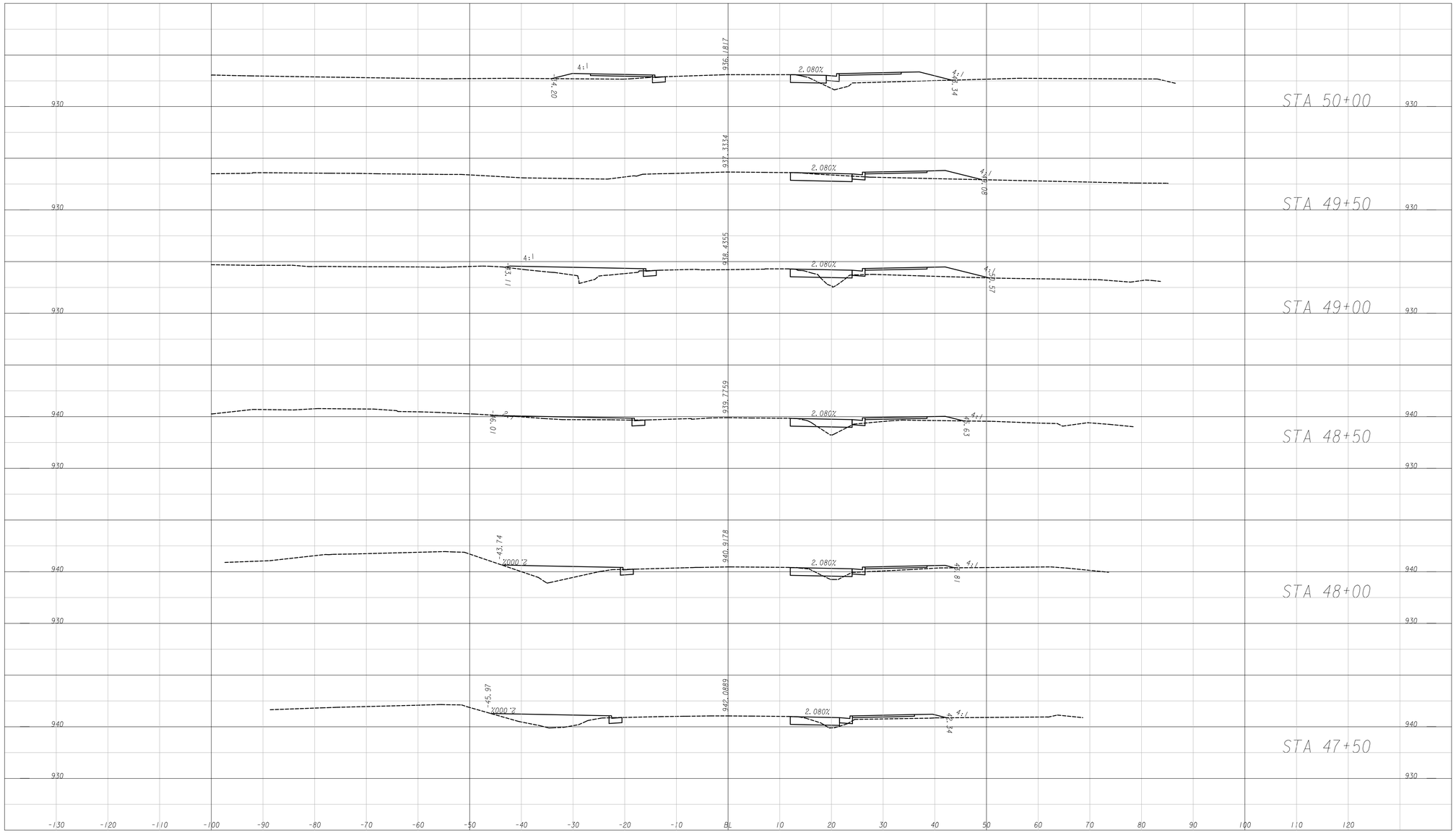
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

EARTHWORK CROSS SECTIONS
S.R. 53

DRAWING No.
23-01

DATETIME$$$	TIME$$$	GDOTRoad	p:\02\02358\008\dgn\009097xs01.dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray		ROAD.TBL		JACKSON	CSTEE-0009-00(097)	28	99



NOT RELEASED FOR CONSTRUCTION

SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

EARTHWORK CROSS SECTIONS
S.R. 53

DRAWING No. 23-02

DATETIME$$$	TIME$$$	GDOTRoad	p:\02\02358\008\dgn\009097xs01.dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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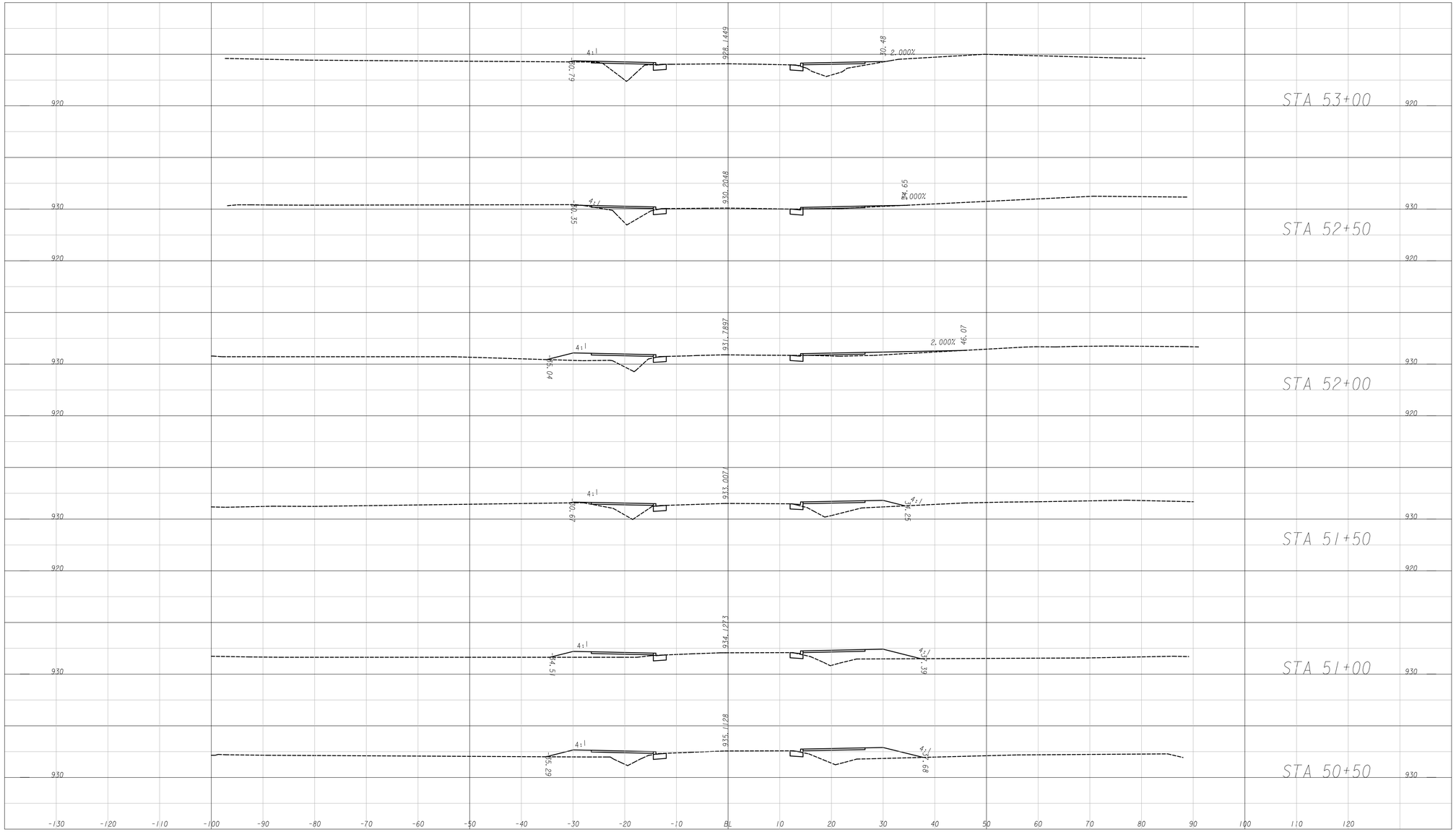

NOT RELEASED
FOR CONSTRUCTION

SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

EARTHWORK CROSS SECTIONS
S.R. 53

DRAWING No.
23-03

DATETIME$$$	TIME$$$	GDOTRoad	p:\02\02358\008\dgn\009097xs01.dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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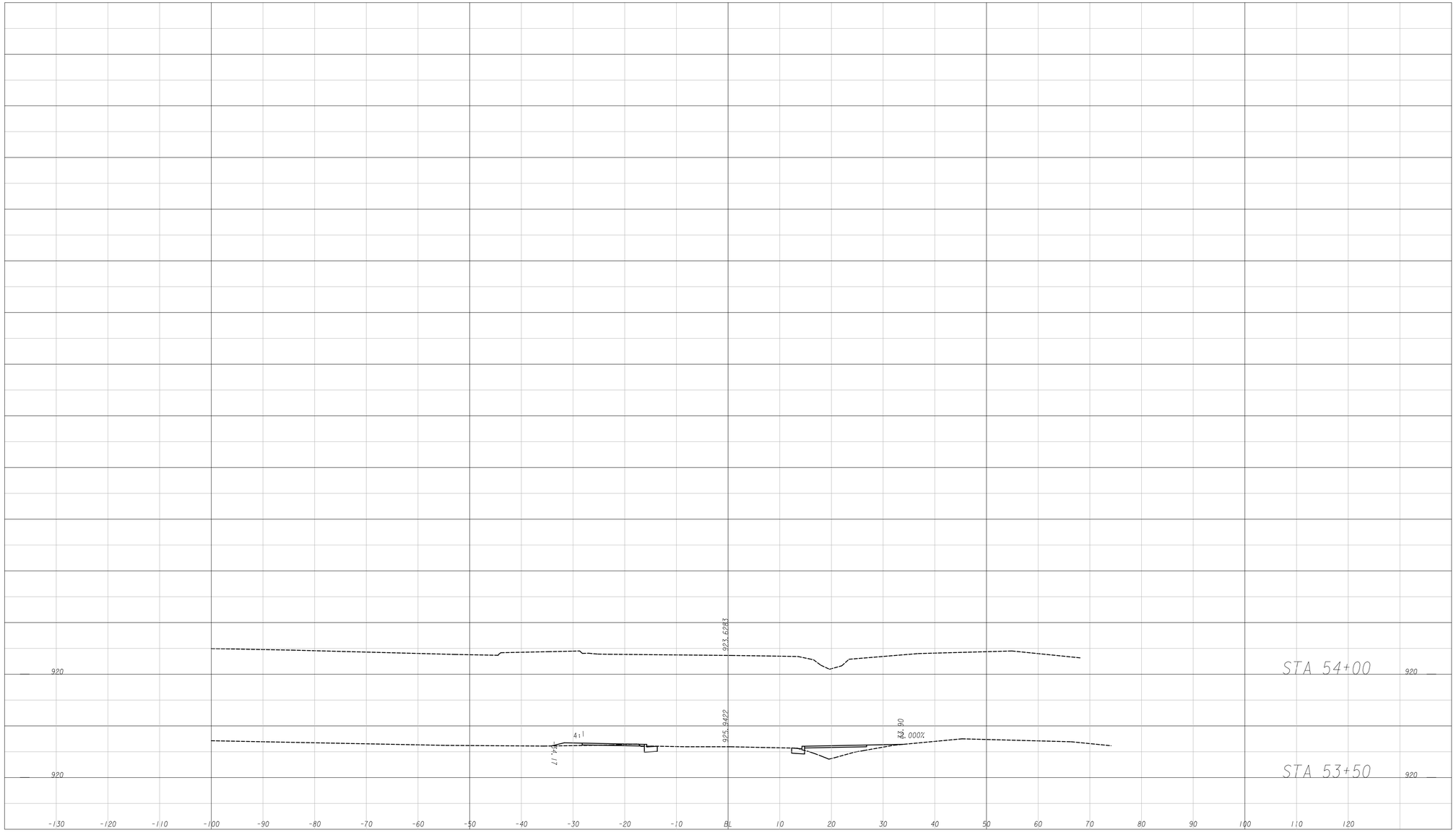


NOT RELEASED
FOR CONSTRUCTION

SCALE: 1"=10' HORIZONTAL
1"=10' VERTICAL

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

EARTHWORK CROSS SECTIONS
S.R. 53

DRAWING No.
23-04

11/3/2010 3:25:32 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097utcl.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSTEE-0009-00(097)	31	99

Utilities Legend

Electricity

- EXISTING OVERHEAD ELECTRIC POWER
- REMOVED OVERHEAD ELECTRIC POWER
- PROPOSED OVERHEAD ELECTRIC POWER
- EXISTING UNDERGROUND ELECTRIC POWER
- REMOVED UNDERGROUND ELECTRIC POWER
- PROPOSED UNDERGROUND ELECTRIC POWER
- EXISTING ELECTRIC POWER POLE
- TEMPORARY ELECTRIC POWER POLE
- PROPOSED ELECTRIC POWER POLE
- EXISTING ELECTRIC POWER GUY
- TEMPORARY ELECTRIC POWER GUY
- PROPOSED ELECTRIC POWER GUY
- EXISTING ELECTRIC MANHOLE
- TEMPORARY ELECTRIC MANHOLE
- PROPOSED ELECTRIC MANHOLE
- EXISTING ELECTRIC HANDHOLE
- TEMPORARY ELECTRIC HANDHOLE
- PROPOSED ELECTRIC HANDHOLE
- EXISTING ELECTRIC LIGHTPOLE
- TEMPORARY ELECTRIC LIGHTPOLE
- PROPOSED ELECTRIC LIGHTPOLE
- EXISTING ELECTRIC TRANSFORMER
- TEMPORARY ELECTRIC TRANSFORMER
- PROPOSED ELECTRIC TRANSFORMER
- EXISTING ELECTRIC METER
- TEMPORARY ELECTRIC METER
- PROPOSED ELECTRIC METER
- EXISTING ELECTRIC MARKER
- TEMPORARY ELECTRIC MARKER
- PROPOSED ELECTRIC MARKER
- EXISTING ELECTRIC BOX
- TEMPORARY ELECTRIC BOX
- PROPOSED ELECTRIC BOX

Telephone

- EXISTING OVERHEAD TELEPHONE
- REMOVED OVERHEAD TELEPHONE
- PROPOSED OVERHEAD TELEPHONE
- EXISTING UNDERGROUND TELEPHONE
- REMOVED UNDERGROUND TELEPHONE
- PROPOSED UNDERGROUND TELEPHONE
- EXISTING TELEPHONE POLE
- TEMPORARY TELEPHONE POLE
- PROPOSED TELEPHONE POLE
- EXISTING TELEPHONE GUY
- TEMPORARY TELEPHONE GUY
- PROPOSED TELEPHONE GUY
- EXISTING TELEPHONE MANHOLE
- TEMPORARY TELEPHONE MANHOLE
- PROPOSED TELEPHONE MANHOLE

Sanitary Sewer

- EXISTING SANITARY SEWER MAIN
- REMOVED SANITARY SEWER MAIN
- PROPOSED SANITARY SEWER MAIN
- EXISTING SANITARY FORCED SEWER MAIN
- REMOVED SANITARY FORCED SEWER MAIN
- PROPOSED SANITARY FORCED SEWER MAIN
- EXISTING SANITARY SEWER VENT
- TEMPORARY SANITARY SEWER VENT
- PROPOSED SANITARY SEWER VENT
- EXISTING SANITARY SEWER VALVE
- TEMPORARY SANITARY SEWER VALVE
- PROPOSED SANITARY SEWER VALVE
- EXISTING SANITARY SEWER MANHOLE
- TEMPORARY SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER GREASE TRAP
- TEMPORARY SANITARY SEWER GREASE TRAP
- PROPOSED SANITARY SEWER GREASE TRAP
- EXISTING SANITARY SEWER CLEANOUT
- TEMPORARY SANITARY SEWER CLEANOUT
- PROPOSED SANITARY SEWER CLEANOUT

Water

- EXISTING WATER MAIN
- REMOVED WATER MAIN
- PROPOSED WATER MAIN
- EXISTING NON-POTABLE WATER MAIN
- REMOVED NON-POTABLE WATER MAIN
- PROPOSED NON-POTABLE WATER MAIN
- EXISTING WATER VALVE
- TEMPORARY WATER VALVE
- PROPOSED WATER VALVE
- EXISTING WATER METER
- TEMPORARY WATER MATER
- PROPOSED WATER METER
- EXISTING WATER MANHOLE
- TEMPORARY WATER MANHOLE
- PROPOSED WATER MANHOLE
- EXISTING FIRE HYDRANT
- TEMPORARY FIRE HYDRANT
- PROPOSED FIRE HYDRANT

Television

- EXISTING OVERHEAD TELEVISION
- REMOVED OVERHEAD TELEVISION
- PROPOSED OVERHEAD TELEVISION
- EXISTING UNDERGROUND TELEVISION
- REMOVED UNDERGROUND TELEVISION
- PROPOSED UNDERGROUND TELEVISION
- EXISTING TELEVISION PEDESTAL
- TEMPORARY TELEVISION PEDESTAL
- PROPOSED TELEVISION PEDESTAL
- EXISTING TELEVISION HANDHOLE
- TEMPORARY TELEVISION HANDHOLE
- PROPOSED TELEVISION HANDHOLE
- EXISTING TELEVISION MANHOLE
- TEMPORARY TELEVISION MANHOLE
- PROPOSED TELEVISION MANHOLE

Gas

- EXISTING GAS MAIN
- REMOVED GAS MAIN
- PROPOSED GAS MAIN
- EXISTING GAS VENT
- TEMPORARY GAS VENT
- PROPOSED GAS VENT
- EXISTING GAS VALVE
- TEMPORARY GAS VALVE
- PROPOSED GAS VALVE
- EXISTING GAS METER
- TEMPORARY GAS METER
- PROPOSED GAS METER
- EXISTING GAS MANHOLE
- TEMPORARY GAS MANHOLE
- PROPOSED GAS MANHOLE
- EXISTING GAS VAULT
- TEMPORARY GAS VAULT
- PROPOSED GAS VAULT
- EXISTING GAS PRESSURE REGULATOR
- TEMPORARY GAS PRESSURE REGULATOR
- PROPOSED GAS PRESSURE REGULATOR

Petroleum

- EXISTING PETROLEUM PIPE LINE
- REMOVED PETROLEUM PIPE LINE
- PROPOSED PETROLEUM PIPE LINE
- EXISTING PETROLEUM MANHOLE
- REMOVED PETROLEUM MANHOLE
- PROPOSED PETROLEUM MANHOLE

Steam

- EXISTING STEAM PIPE LINE
- REMOVED STEAM PIPE LINE
- PROPOSED STEAM PIPE LINE

LEGEND

ALL UTILITY INFORMATION HEREON IS DEPICTED TO QUALITY LEVEL "B" UNLESS OTHERWISE NOTED.

SIZE INFORMATION SHOWN HEREON IS TAKEN FROM AVAILABLE UTILITY RECORDS.

ABBBREVIATIONS:

(QL-C)	DEPICTED ACCORDING TO RECORD INFORMATION AND EXISTING ASSOCIATED UTILITY STRUCTURES. NO ELECTRONIC INFORMATION WAS OBTAINED.
(QL-D)	DEPICTED ACCORDING TO RECORD INFORMATION. NO ELECTRONIC INFORMATION WAS OBTAINED.
(F.O.)	FIBER OPTIC
(AATUR)	ABANDONED ACCORDING TO UTILITY RECORDS
(AATFI)	ABANDONED ACCORDING TO FIELD INSPECTION
E	UTILITY ENDPOINT
	LINE MAY CONTINUE BUT NO RECORD INFORMATION
EOI	END OF ELECTRONIC DESIGNATING INFORMATION
EORI	END OF UTILITY RECORD INFORMATION
(NAP)	NO ASSOCIATED PIPING FOUND FROM UTILITY STRUCTURE
ED (XX.X)	ELECTRONIC DEPTH READINGS (IN FEET)

ELECTRONIC DEPTH READINGS WERE TAKEN DIRECTLY FROM ELECTRONIC DESIGNATING INSTRUMENTS AND HAVE NOT BEEN VERIFIED BY ANY OTHER MEANS. EQUIPMENT MANUFACTURERS WILL NOT GUARANTEE ANY ACCURACY FOR THIS DATA. THEREFORE, THE DEPTH READINGS ARE NOT TO BE CONSIDERED SUITABLE FOR DESIGN DECISIONS. THE SO-DEEP/TSD JOINT VENTURE DOES NOT WARRANT OR GUARANTEE THE ACCURACY OR RELIABILITY OF ANY ELECTRONIC DEPTH READINGS.

UNLESS OTHERWISE NOTED, UTILITY LINE LIMITS DEPICTED REPRESENT FIELD DESIGNATING LIMITS AND NOT ENDPOINTS OF UTILITIES.

UTILITY INFORMATION LABELED "QL-C" OR "QL-D" IS DERIVED FROM RECORDS. SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE. THE SO-DEEP/TSD JOINT VENTURE EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF UTILITY INFORMATION DEPICTED ACCORDING TO RECORDS.

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

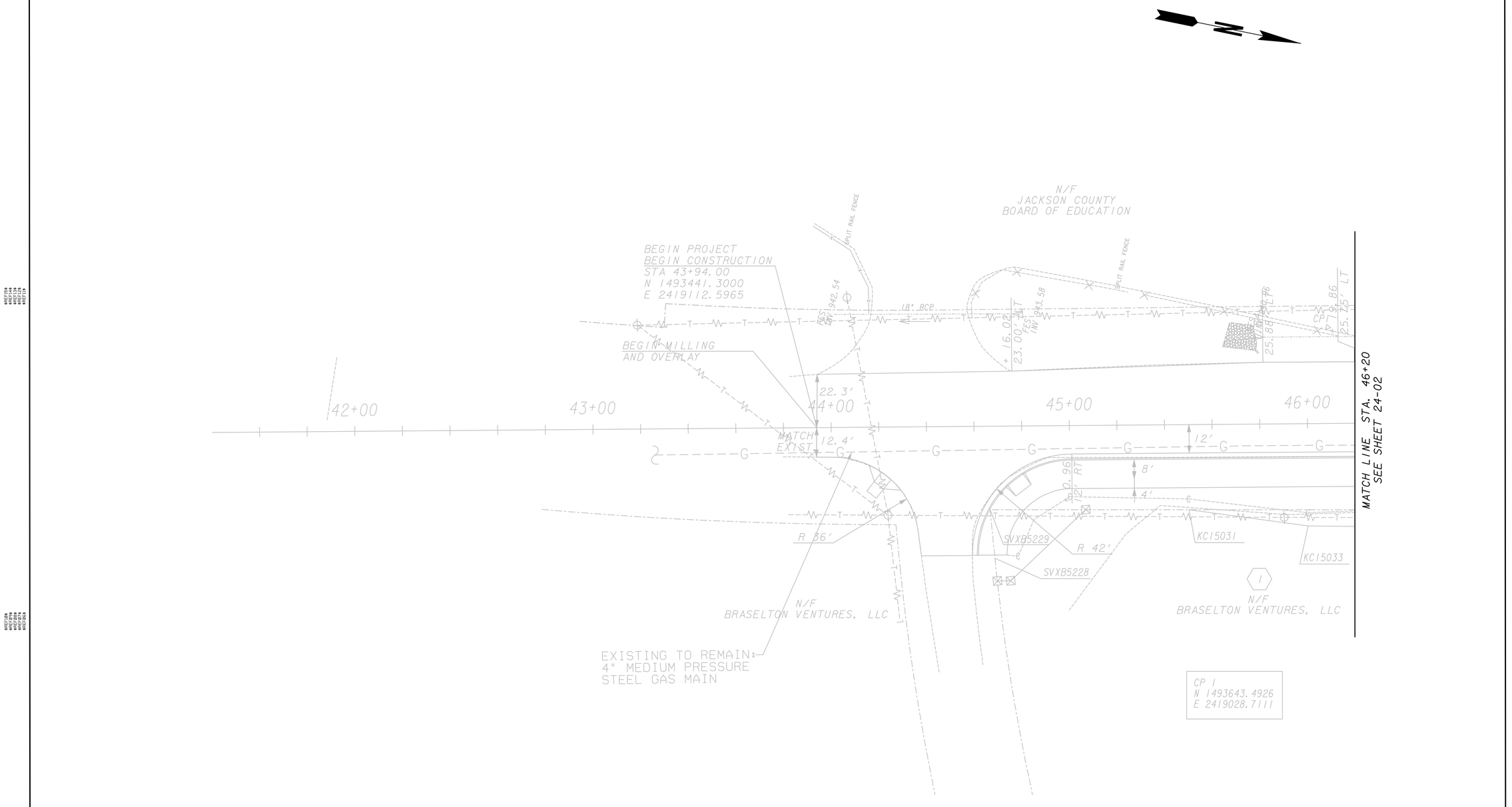
OFFICE:

UTILITY PLANS

SR 53 STREETSCAPE

DRAWING No. 24-00

11/3/2010 brad.gray	3:25:33 PM	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097ut01.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	CSTEE-0009-00(097)	32	99



EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

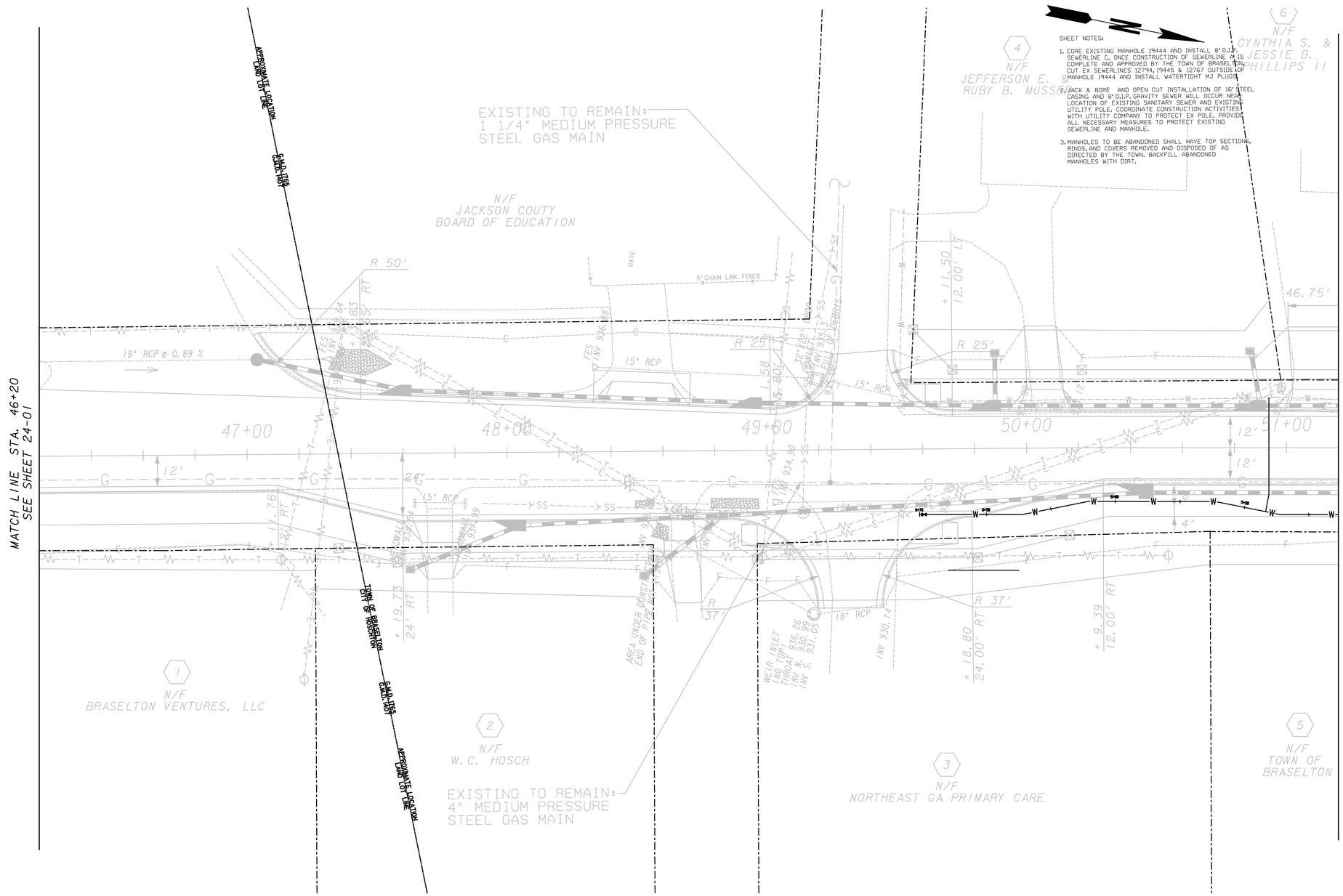
UTILITY PLANS

SR 53 STREETSCAPE

DRAWING No. 24-01

GPLN

11/3/2010 3:25:34 PM	GDOTRoad	p:\02\02358\008\dgn\009097ut02.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray	ROAD.TBL		GA	CSTEE-0009-00(097)	33	99



SHEET NOTES:

1. CORE EXISTING MANHOLE 19444 AND INSTALL 8" D.I.P. SEWERLINE C. ONCE CONSTRUCTION OF SEWERLINE A IS COMPLETE AND APPROVED BY THE TOWN OF BRASELTON, CUT EX SEWERLINES 12794, 19445 & 12767 OUTSIDE OF MANHOLE 19444 AND INSTALL WATERTIGHT MJ PLUGS.
2. JACK & BORE AND OPEN CUT INSTALLATION OF 16" STEEL CASING AND 8" D.I.P. GRAVITY SEWER WILL OCCUR NEAR LOCATION OF EXISTING SANITARY SEWER AND EXISTING UTILITY POLE. COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANY TO PROTECT EX POLE. PROVIDE ALL NECESSARY MEASURES TO PROTECT EXISTING SEWERLINE AND MANHOLE.
3. MANHOLES TO BE ABANDONED SHALL HAVE TOP SECTIONS, RINGS, AND COVERS REMOVED AND DISPOSED OF AS DIRECTED BY THE TOWN. BACKFILL ABANDONED MANHOLES WITH DIRT.

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES		EXISTING PROPERTY LINE	
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE		REQUIRED R/W LINE	
EASEMENT FOR CONSTR OF SLOPES		CONSTRUCTION LIMITS	
EASEMENT FOR CONSTR OF DRIVES		R/W AND LIMIT OF ACCESS	
		EXISTING R/W LINE	
		PAVEMENT OVERLAY	

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

UTILITY PLANS

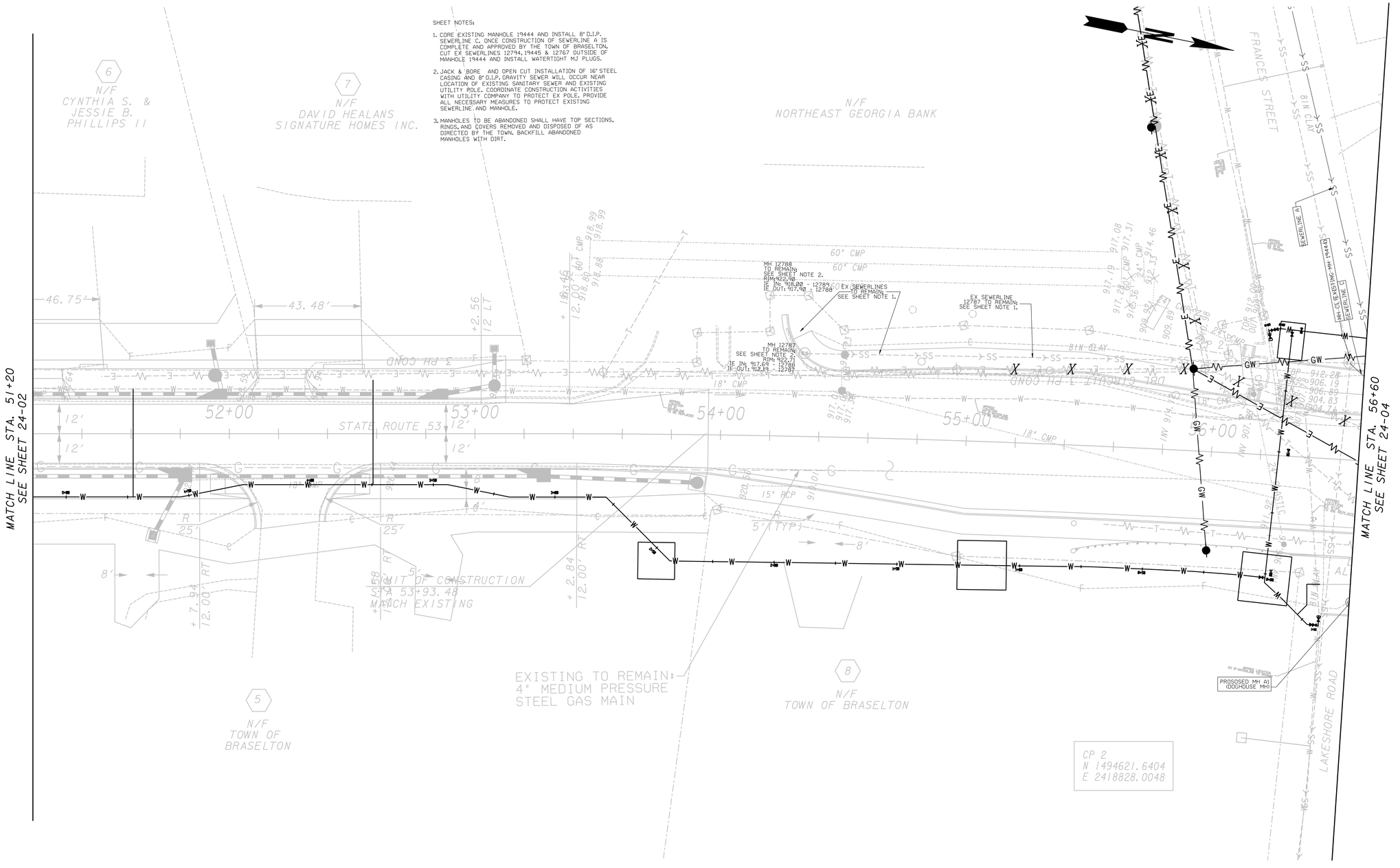
SR 53 STREETSCAPE

DRAWING No. 24-02

11/3/2010 3:25:35 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097ut03.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSTEE-0009-00(097)	34	99

SHEET NOTES:

1. CORE EXISTING MANHOLE 19444 AND INSTALL 8" D.I.P. SEWERLINE C. ONCE CONSTRUCTION OF SEWERLINE A IS COMPLETE AND APPROVED BY THE TOWN OF BRASELTON, CUT EX SEWERLINES 12794, 19445 & 12767 OUTSIDE OF MANHOLE 19444 AND INSTALL WATERTIGHT MJ PLUGS.
2. JACK & BORE AND OPEN CUT INSTALLATION OF 16" STEEL CASING AND 8" D.I.P. GRAVITY SEWER WILL OCCUR NEAR LOCATION OF EXISTING SANITARY SEWER AND EXISTING UTILITY POLE. COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANY TO PROTECT EX POLE. PROVIDE ALL NECESSARY MEASURES TO PROTECT EXISTING SEWERLINE AND MANHOLE.
3. MANHOLES TO BE ABANDONED SHALL HAVE TOP SECTIONS, RINGS, AND COVERS REMOVED AND DISPOSED OF AS DIRECTED BY THE TOWN. BACKFILL ABANDONED MANHOLES WITH DIRT.



EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

UTILITY PLANS

SR 53 STREETSCAPE

DRAWING No. 24-03

11/3/2010 3:25:36 PM	GDOTRoad	p:\02\02358\008\dgn\009097ut04.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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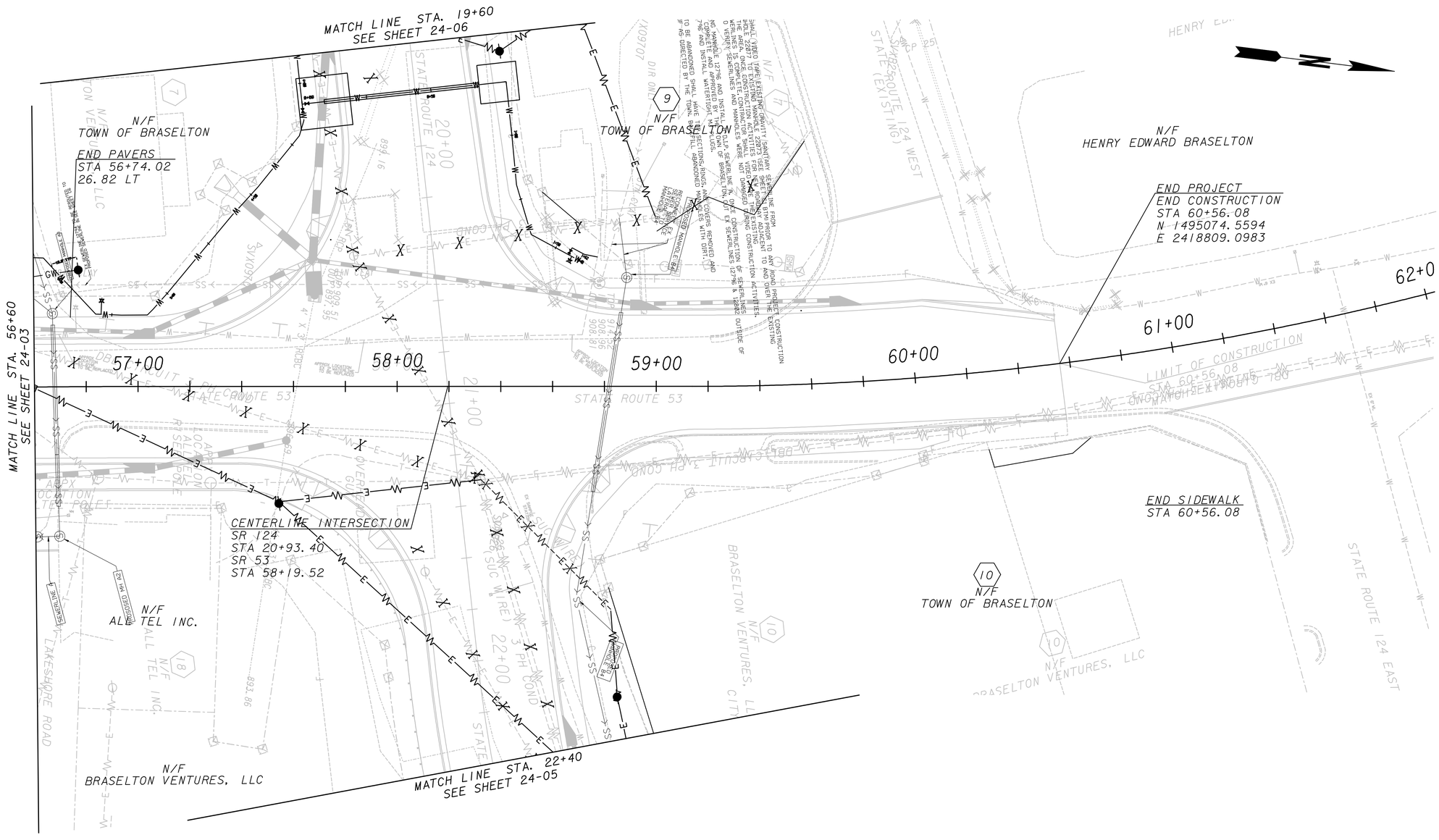

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES		EXISTING PROPERTY LINE	
		REQUIRED R/W LINE	
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE		CONSTRUCTION LIMITS	
		R/W AND LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		EXISTING R/W LINE	
EASEMENT FOR CONSTR OF DRIVES		PAVEMENT OVERLAY	

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

UTILITY PLANS

SR 53 STREETSCAPE

DRAWING No. 24-04

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	REQUIRED R/W LINE
	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

NOT RELEASED
FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

UTILITY PLANS

SR 53 STREETSCAPE

DRAWING No. 24-05

11/3/2010	3:25:38 PM	GDOTRoad	p:\02\02358\008\dgn\009097ut06.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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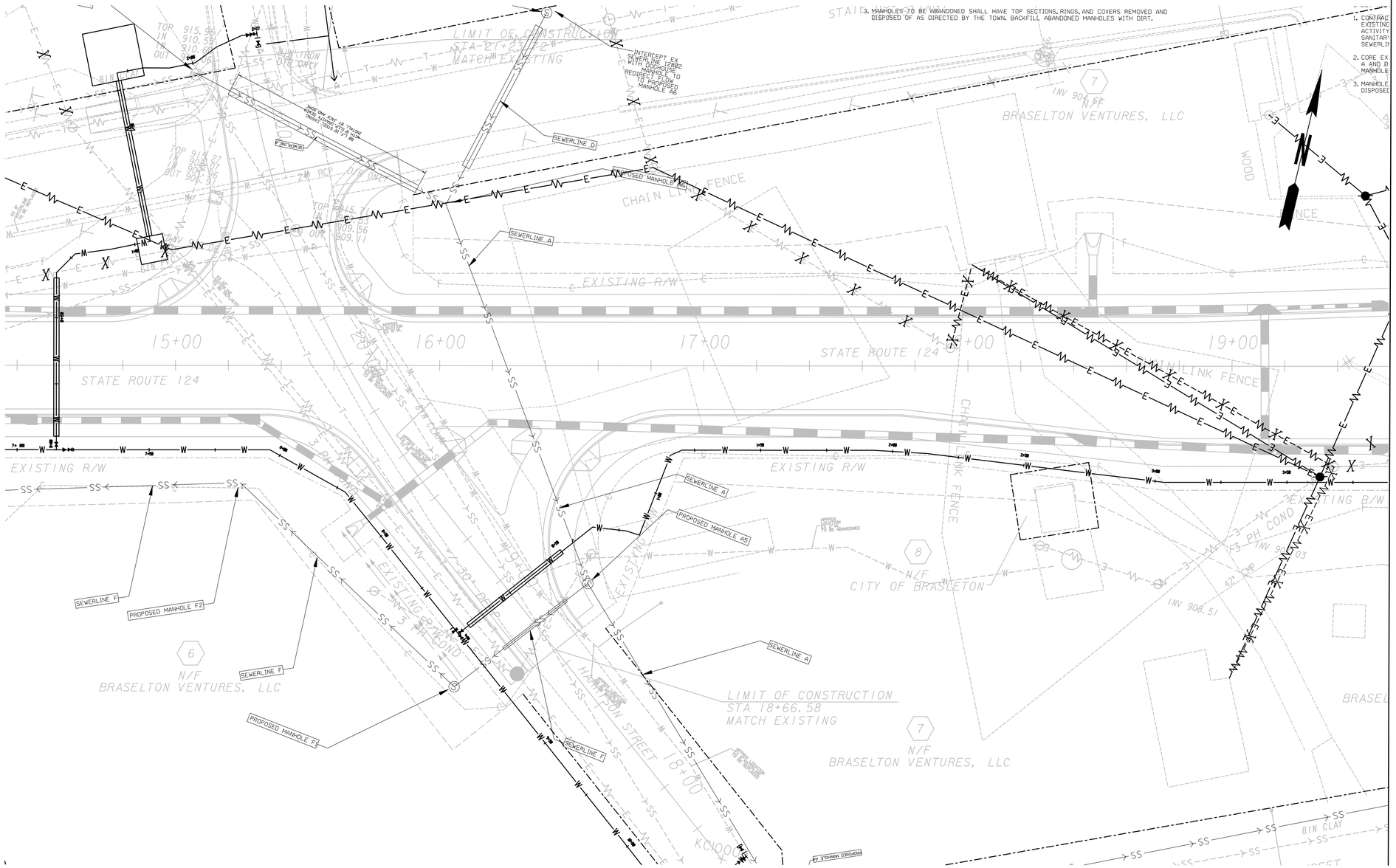


EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES		EXISTING PROPERTY LINE	
		REQUIRED R/W LINE	
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE		CONSTRUCTION LIMITS	
		R/W AND LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES		EXISTING R/W LINE	
EASEMENT FOR CONSTR OF DRIVES		PAVEMENT OVERLAY	

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

UTILITY PLANS

SR 53 STREETSCAPE

DRAWING No. 24-06

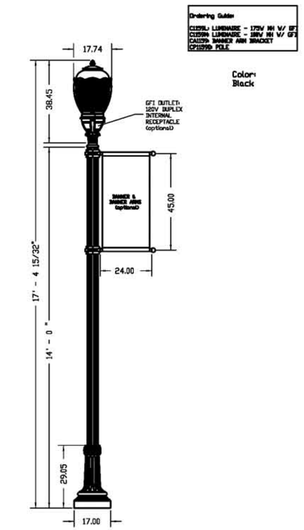
		COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
		Jackson	CSTEE-0009-00(097)	38	99

LEGEND

———	EXPOSED CONDUIT.
- - -	UNDERGROUND CONDUIT. (DIRECT BURIAL)
- - -	UNDERGROUND CONDUIT. (DIRECT BORE)
- - -	EXISTING UNDERGROUND CONDUIT
A ⊕	LIGHT FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE.
⊖	20AMP 125V. STRAIGHT BLADE 3 WIRE GROUNDING DUPLEX OUTLET. NUMBER INDICATES CIRCUIT. WP – INDICATES WEATHERPROOF GFCI – GROUND FAULT CIRCUIT INTERRUPTER
⊠	PANELBOARD.
TFROC	TYPICAL FOR REMAINDER OF CIRCUIT.
38,781 A AVAILABLE	AVAILABLE SYMMETRICAL SHORT CIRCUIT CURRENT AT THE EQUIPMENT AS CALCULATED BY THE ENGINEER. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE A FULLY RATED SYSTEM.
(30')	LENGTH OF FEEDER IN FEET.

NOTES:

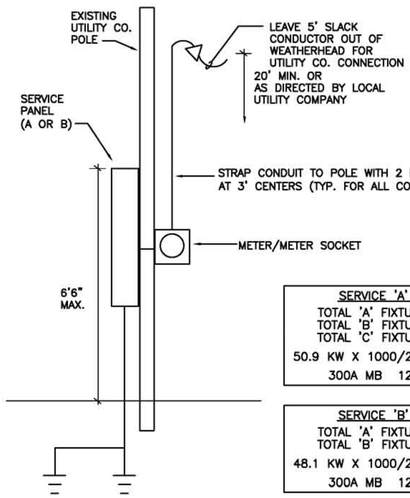
1. CONTRACTOR SHALL ROUTE ALL CONDUIT RUNS BETWEEN EACH FIXTURE AND FROM THE LAST FIXTURE TO THE SERVICE IN THE MOST DIRECT ROUTE POSSIBLE. RUN CONDUITS IN THE GRASS AREA WHEN AVAILABLE. NO CONDUITS ARE TO BE RUN ON PRIVATE PROPERTY. EXTRA CARE MUST BE TAKEN IN THE INSTALLATION OF THE CONDUIT SYSTEM TO AVOID ANY DAMAGE TO EXISTING UNDER-GROUND UTILITIES. LOCATE ALL UTILITIES PRIOR TO START OF PROJECT.



1 25-00 **FIXTURE 'A' DETAIL**
SCALE: NONE

LIGHTING FIXTURE SCHEDULE

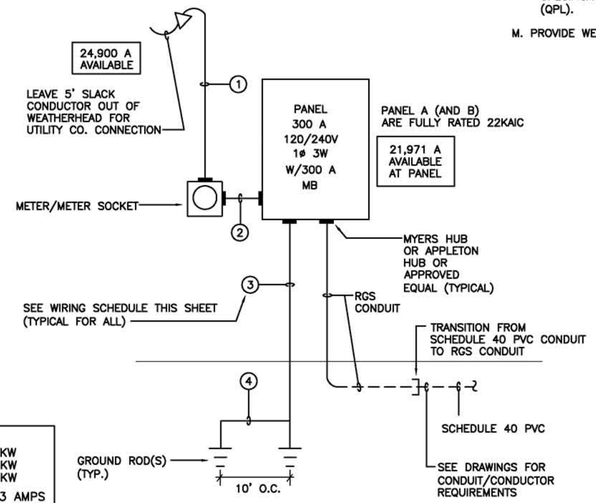
TYPE	MANUFACTURER & CATALOG NUMBER	MOUNTING	NO./LAMPS	LOAD
A	HADCO #C1159 – LUMINAIRE #CA1159 – BANNER ARM BRACKET #CP1159D – POLE W/ 120V DUPLEX INTERNAL RECEPTACLE AT TOP OF POLE & 120V DUPLEX RECEPTACLE AT BASE OF POLE ALTERNATE: GE #PSA 150 S 240 H K 3 G BL W/ HGTA 14 F 3 TABL POLE OR APPROVED EQUAL	14' POLE	1–150W HPS	210W
B	HADCO #C1159I – LUMINAIRE #CA1159G – ARM ADAPTOR #CA1159B – ARM BRACKET #CA1159C – SLIP-OVER BASE #CP1159C – POLE W/ 120V DUPLEX INTERNAL RECEPTACLE AT TOP OF POLE & 120V DUPLEX RECEPTACLE AT BASE OF POLE ALTERNATE: GE #MADX L S 150 S 240 H BL W/ KW INDUSTRIES POLE #RTSP30'-MA17-FA4/MAST ARM NOTE: MAST ARM CUSTOM TO MATCH CITY STANDARD OR APPROVED EQUAL	30' POLE	1–150W HPS	210W
C	HADCO #LED RSS2 ALTERNATE: BRONZELITE #ALA1005D–HL–120–DB–C OR APPROVED EQUAL	RECESSED	INCLUDED 5–1W LED	13.5W



SERVICE 'A' CALCULATION
TOTAL 'A' FIXTURES = 25.48KW
TOTAL 'B' FIXTURES = 25.44KW
TOTAL 'C' FIXTURES = 00.02KW
50.9 KW X 1000/240V = 212.33 AMPS
300A MB 120/240V 1ø 3W

SERVICE 'B' CALCULATION
TOTAL 'A' FIXTURES = 24.95KW
TOTAL 'B' FIXTURES = 23.15KW
48.1 KW X 1000/240V = 200.42 AMPS
300A MB 120/240V 1ø 3W

2 25-00 **SERVICE POLE DETAIL - SERVICE A AND SERVICE B**
SCALE: NONE



3 25-00 **POWER RISER DIAGRAM - PANEL A AND PANEL B**
SCALE: NONE

WIRING SCHEDULE

1. 3–350KCMIL IN 2 1/2" RGS C.
2. 3–350KCMIL + 1#4G IN 3" RGS C.
3. 1#2 IN 3/4" PVC C.
4. #6

ALL CONDUCTORS ARE TO BE COPPER

GENERAL NOTES:

A. NO CONDUIT MAY BE RUN OUTSIDE THE RIGHT OF WAY BOUNDARY OR ON PRIVATE PROPERTY.

B. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY DIGGING. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST.

C. CONTRACTOR SHALL DIRECT BORE WHERE APPLICABLE.

D. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. CONDUIT INSTALLED UNDERNEATH ROADWAYS AND DRIVES SHALL BE RGS. ALL CONDUIT WHICH IS RUN UNDER A ROADWAY SHALL BE INSTALLED PRIOR TO ANY NEW PAVING. NO NEW PAVING SHALL BE CUT TO INSTALL ELECTRICAL LINES.

E. RIGID CONDUIT INSTALLED ON STRUCTURES SHALL BE SUPPORTED AT LEAST EVERY TEN FEET AND WITHIN THREE FEET OF JBOXES, LUMINAIRES, ETC.

F. EXPOSED CONDUIT SHALL BE RGS UNLESS OTHERWISE NOTED.

G. LOCAL UTILITY COMPANY IS JACKSON EMC
CONTACT: MIKE BROWN (706) 367–6202

H. THE CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONDUIT. THE COST OF THIS ITEM WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE CONDUIT.

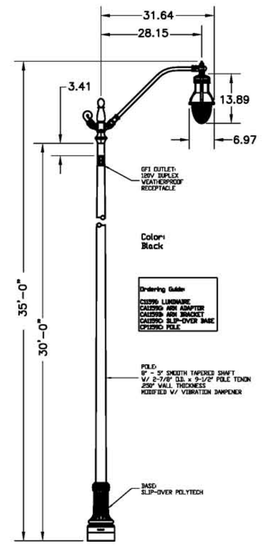
I. ALL LAMPS SHALL BE HIGH PRESSURE SODIUM TYPE.

J. ALL BALLAST SHALL BE AUTOREG TYPE.

K. ALL FUSES AND FUSE HOLDERS SHALL BE WATERPROOF IN–LINE TYPE.

L. ALL ELECTRICAL MATERIALS, SUCH AS CONDUIT, CABLES, WIRES AND JBOXES, SHALL BE UL LISTED AND MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE AMERICAN NATIONAL STANDARDS INSTITUTE. ELECTRICAL CONDUITS, WIRES, CIRCUIT BREAKERS, FUSES, GROUND RODS AND GROUND CONDUCTORS SHALL MEET GDOT'S STANDARD SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH GDOT'S QUALIFIED PRODUCTS LIST (QPL).

M. PROVIDE WEATHERPROOF BREAKAWAY WIRING CONNECTORS.



4 25-00 **FIXTURE 'B' DETAIL**
SCALE: NONE

W&A PROJECT NUMBER - 09079
WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388
PLOT SCALE: 1 = 1

PROPERTY AND EXISTING R/W LINE	——P——	BEGIN LIMIT OF ACCESS .....BLA
REQUIRED R/W LINE	———	END LIMIT OF ACCESS .....ELA
CONSTRUCTION LIMITS	——C——F——	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨	REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	▨	
EASEMENT FOR CONSTR OF DRIVES	▨	

JJG

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
LIGHTING PLANS
SR 53 STREETSCAPE
DRAWING No. 25-00

GPLN

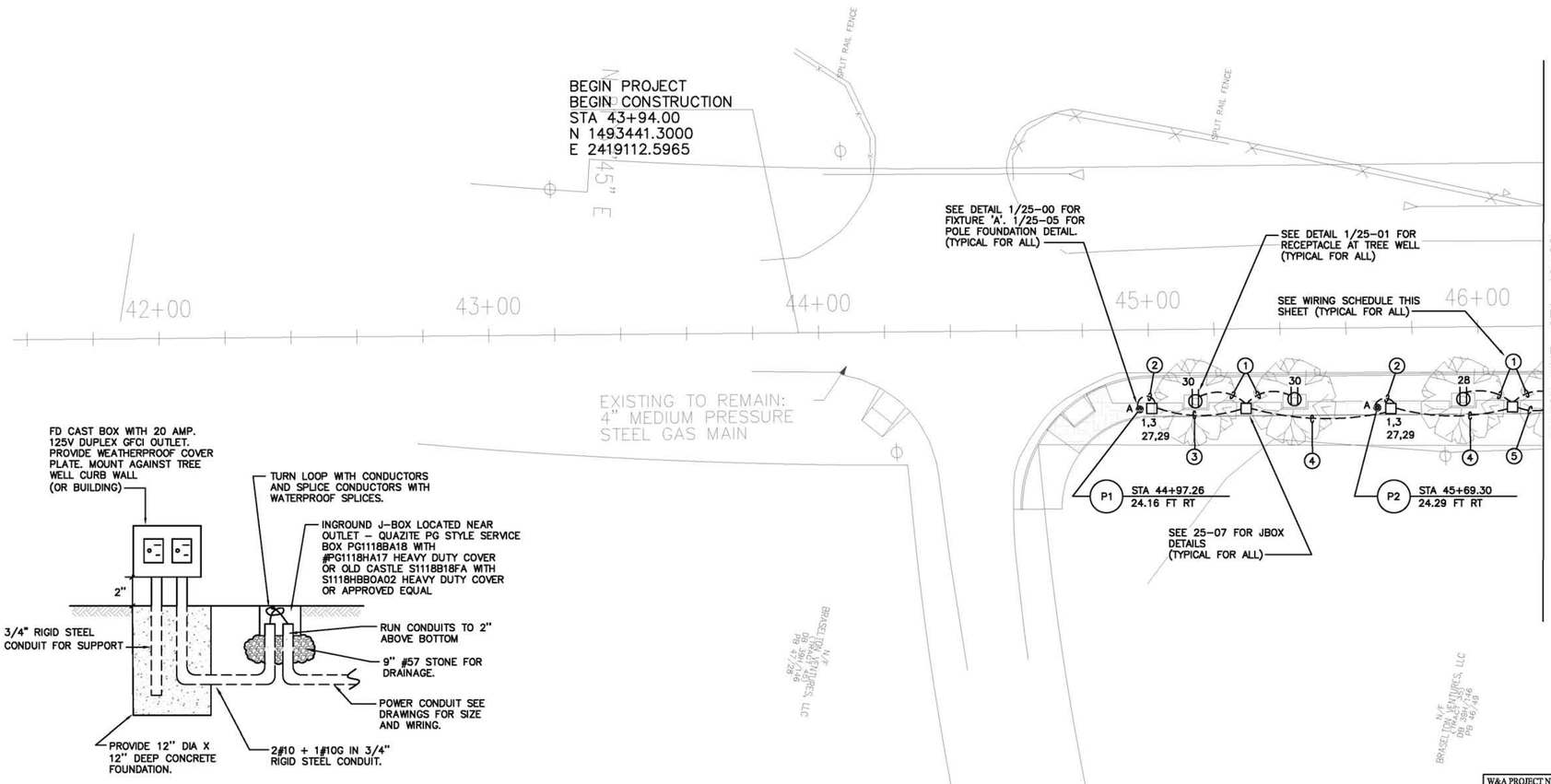
COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Jackson	CSTEE-0009-00(097)	39	99

WIRING SCHEDULE

(1) 2#8 + 1#8G IN 3/4" C
(2) 5#10 + 1#10G IN 1" C
(3) 2#4 + 3#1/0 + 1#1/0G IN 2" C.
(4) 2#4 + 5#1/0 + 1#1/0G IN 2" C.
(5) 2#4 + 6#1/0 + 1#1/0G IN 2 1/2" C.
(6) 2#4 + 8#1/0 + 1#1/0G IN 3" C.
(7) 2#4 + 11#1/0 + 1#1/0G IN 3" C.
(8) 2#4 + 3#1/0 + 2#1 + 1#1/0G IN 2 1/2" C.
(9) 2#4 + 3#1/0 + 6#1 + 1#1/0G IN 2 1/2" C.
(10) 2#4 + 3#1/0 + 6#1 + 1#1/0G IN 3" C.
(11) 2#4 + 3#1/0 + 6#1 + 2#2 + 1#1/0G IN 3" C.
(12) 2#4 + 1#4G IN 2" C.
(13) 2#4 + 2#4 + 3#3 + 1#3G IN 2" C.
(14) 2#4 + 2#4 + 3#3 + 3#6 + 1#3G IN 2" C.
(15) 2#8 + 3#4 + 1#4G IN 2" C.
(16) 2#8 + 3#2 + 1#2G IN 2" C.
(17) 2#8 + 5#2 + 1#2G IN 2" C.
(18) 2#8 + 5#2 + 3#4 + 1#2G IN 2" C.
(19) 2#8 + 5#2 + 3#4 + 2#6 + 1#2G IN 2" C.
(20) 2#8 + 5#2 + 3#4 + 3#6 + 1#2G IN 2" C.
(21) 2#8 + 3#4 + 1#4G IN 2" C.
(22) 2#8 + 3#4 + 2#6 + 1#4G IN 2" C.
(23) 2#8 + 5#2 + 6#4 + 5#6 + 1#2G IN 2 1/2" C.
(24) 2#8 + 5#2 + 9#4 + 5#6 + 1#2G IN 2 1/2" C.
(25) 2#6 + 3#1/0 + 1#1/0G IN 2" C.
(26) 2#6 + 3#1/0 + 2#1 + 1#1/0G IN 2" C.
(27) 2#6 + 3#1/0 + 2#1 + 3#2 + 1#1/0G IN 2" C.
(28) 2#6 + 3#1/0 + 2#1 + 3#2 + 2#3 + 1#1/0G IN 2 1/2" C.
(29) 2#6 + 3#1/0 + 2#1 + 3#2 + 3#3 + 1#1/0G IN 2 1/2" C.
(30) 2#6 + 3#4 + 1#4G IN 2" C.
(31) 2#6 + 3#4 + 2#6 + 1#4G IN 2" C.
(32) 2#6 + 3#4 + 2#6 + 3#8 + 1#4G IN 2" C.
(33) 2#6 + 3#3 + 1#3G IN 2" C.
(34) 2#6 + 6#3 + 1#3G IN 2" C.
(35) 2#6 + 6#3 + 2#4 + 1#3G IN 2" C.
(36) 2#6 + 2#8 + 9#4 + 1#4G IN 2" C.
(37) 2#6 + 2#8 + 12#4 + 1#4G IN 2" C.
(38) 2#6 + 2#8 + 14#4 + 1#4G IN 2 1/2" C.
(39) 2#6 + 2#8 + 17#4 + 1#4G IN 2 1/2" C.
(40) 3/4" EMPTY C. W/#12 TRACER WIRE
(41) 2#6 + 3#2 + 1#2G IN 2" C.
(42) 2#6 + 3#2 + 3#4 + 1#2G IN 2" C.
(43) 2#6 + 3#2 + 3#4 + 3#8 + 1#2G IN 2" C.
(44) 2#6 + 3#2 + 3#4 + 5#8 + 1#2G IN 2 1/2" C.
(45) 2#10 + 1#10 IN 1/2" C.
(46) 2#4 + 3#1/0 + 5#1 + 1#1/0G IN 2 1/2" C.
(47) 2#4 + 3#1/0 + 6#1 + 5#2 + 1#1/0G IN 3" C.

ALL CONDUCTORS ARE TO BE COPPER

1 / 25-01 **OUTLET DETAIL**
SCALE: NTS



2 / 25-01 **PARTIAL SITE PLAN**
SCALE: 1" = 20'-0"

W&A PROJECT NUMBER - 09079
WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388
PLOT SCALE: 1=1

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

BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

NOT RELEASED FOR CONSTRUCTION

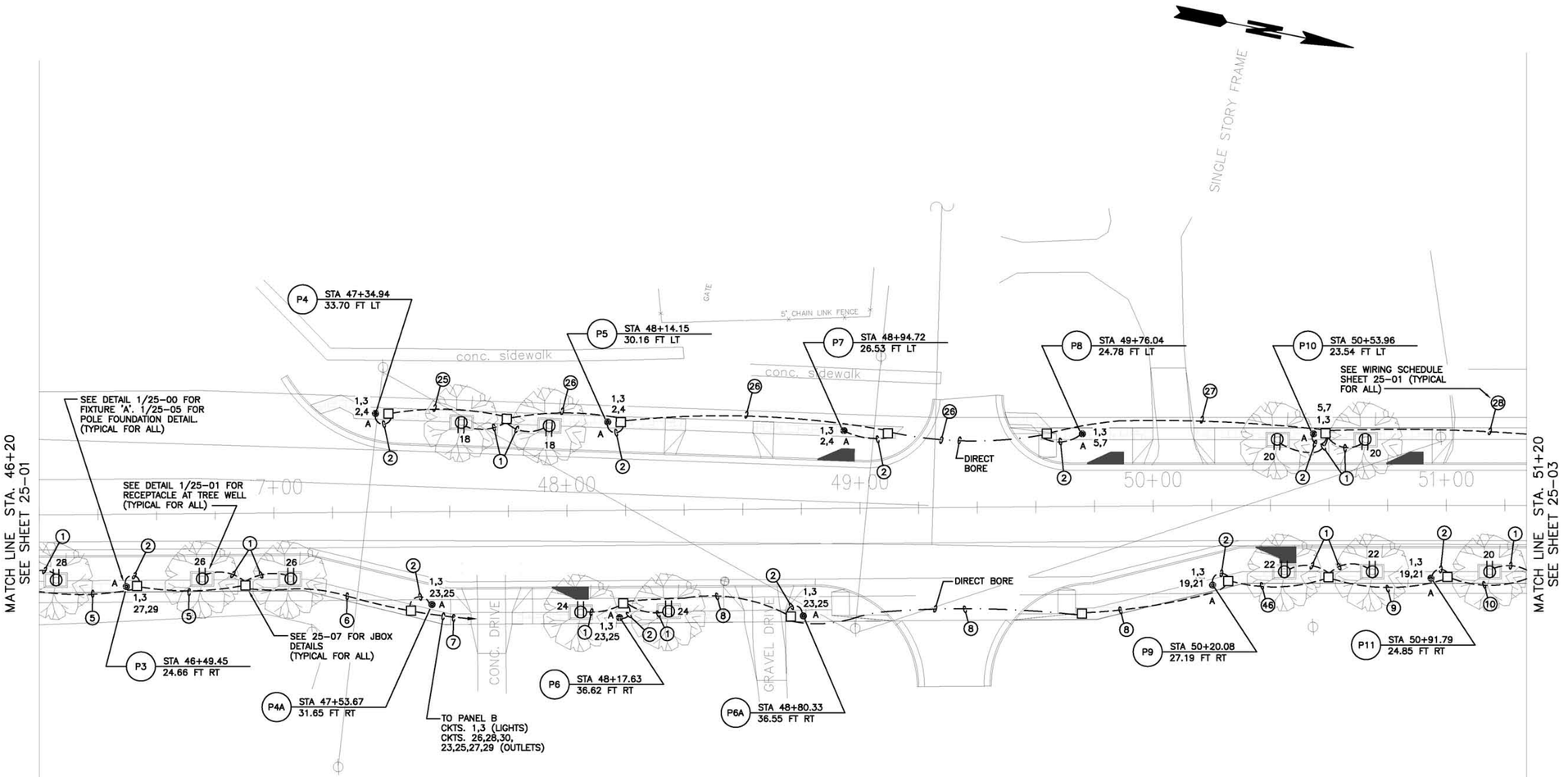
SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
LIGHTING PLANS
SR 53 STREETSCAPE
DRAWING No. 25-01

GPLN

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Jackson	CSTEE-0009-00(097)	40	99



1/25-02 PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

W&A PROJECT NUMBER - 09079

WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388

PLOT SCALE: 1 = 1

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

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
REQ'D R/W AND LIMIT OF ACCESS	

NOT RELEASED FOR CONSTRUCTION

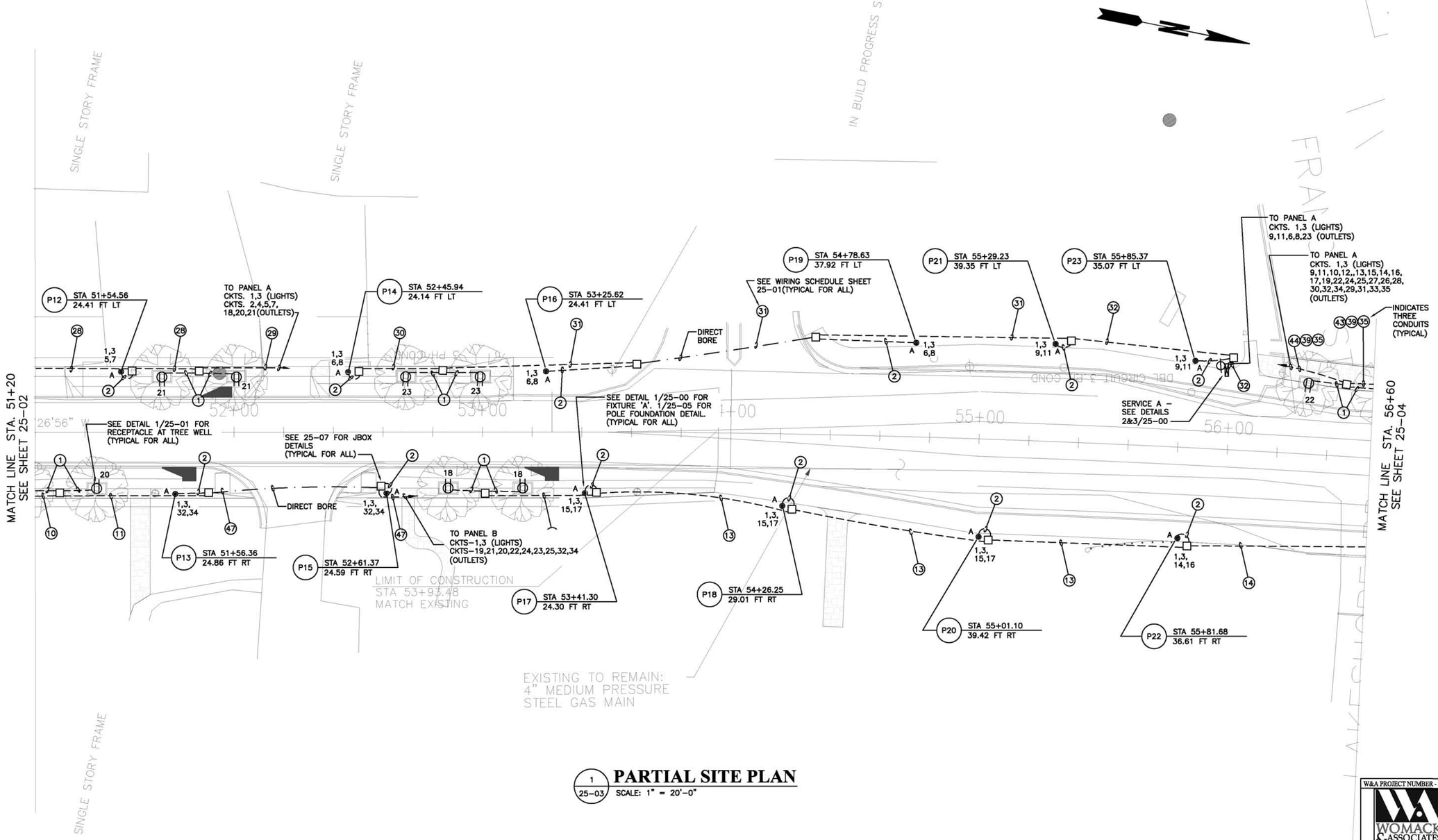
SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
LIGHTING PLANS
SR 53 STREETSCAPE
DRAWING No. 25-02

GPLN

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Jackson	CSTEE-0009-00(097)	41	99



1/25-03 PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

W&A PROJECT NUMBER - 09079

WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388

PLOT SCALE: 1 = 1

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

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
REQ'D R/W AND LIMIT OF ACCESS	

JJG

NOT RELEASED FOR CONSTRUCTION

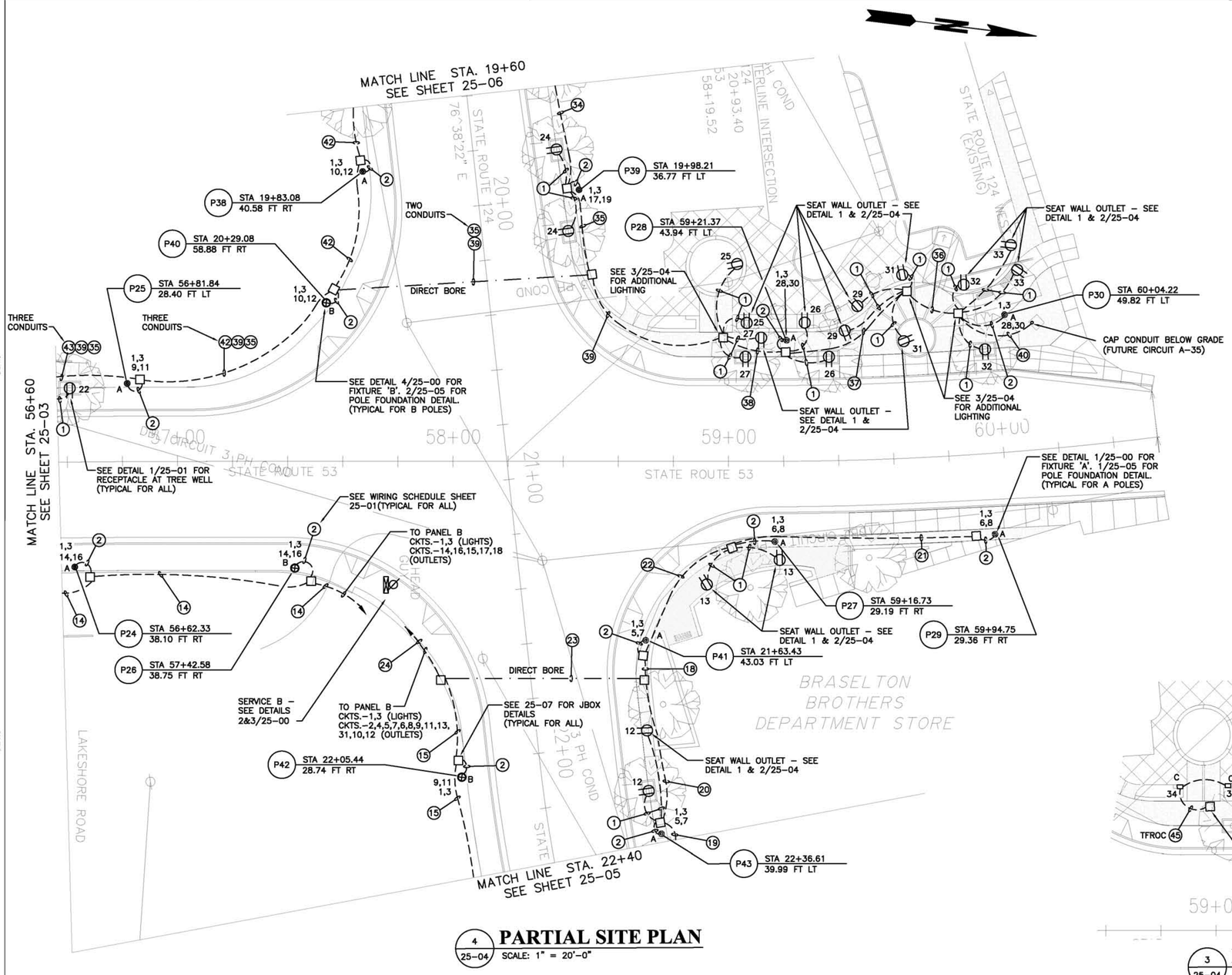
SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
LIGHTING PLANS
SR 53 STREETSCAPE
DRAWING No. 25-03

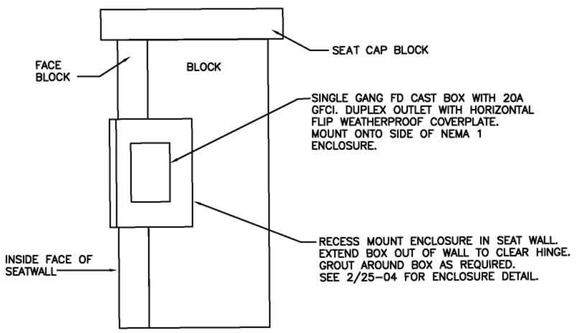
GPLN

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Jackson	CSTEE-0009-00(097)	42	99



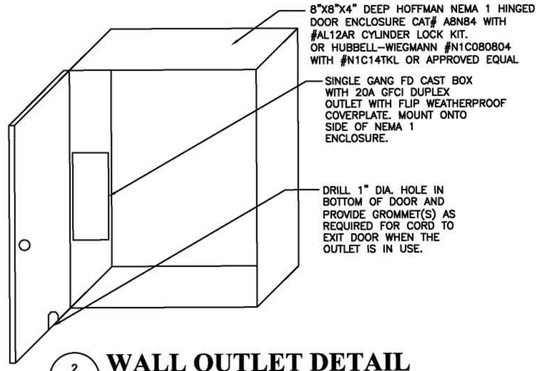
PARTIAL SITE PLAN

4 / 25-04 SCALE: 1" = 20'-0"



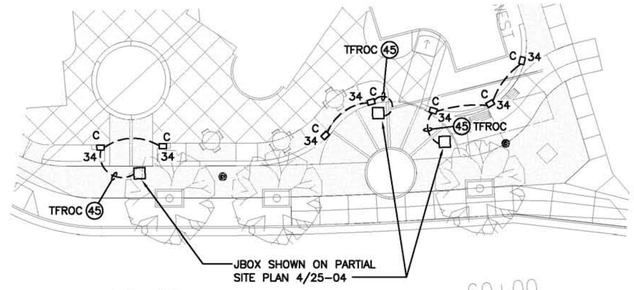
SEAT WALL OUTLET DETAIL

1 / 25-04 SCALE: NTS



WALL OUTLET DETAIL

2 / 25-04 SCALE: N.T.S.



PART PLAN - STATE ROUTE 53

3 / 25-04 SCALE: 1" = 20'-0"

W&A PROJECT NUMBER - 09079
WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388
PLOT SCALE: 1=1

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

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
REQ'D R/W AND LIMIT OF ACCESS	

NOT RELEASED FOR CONSTRUCTION

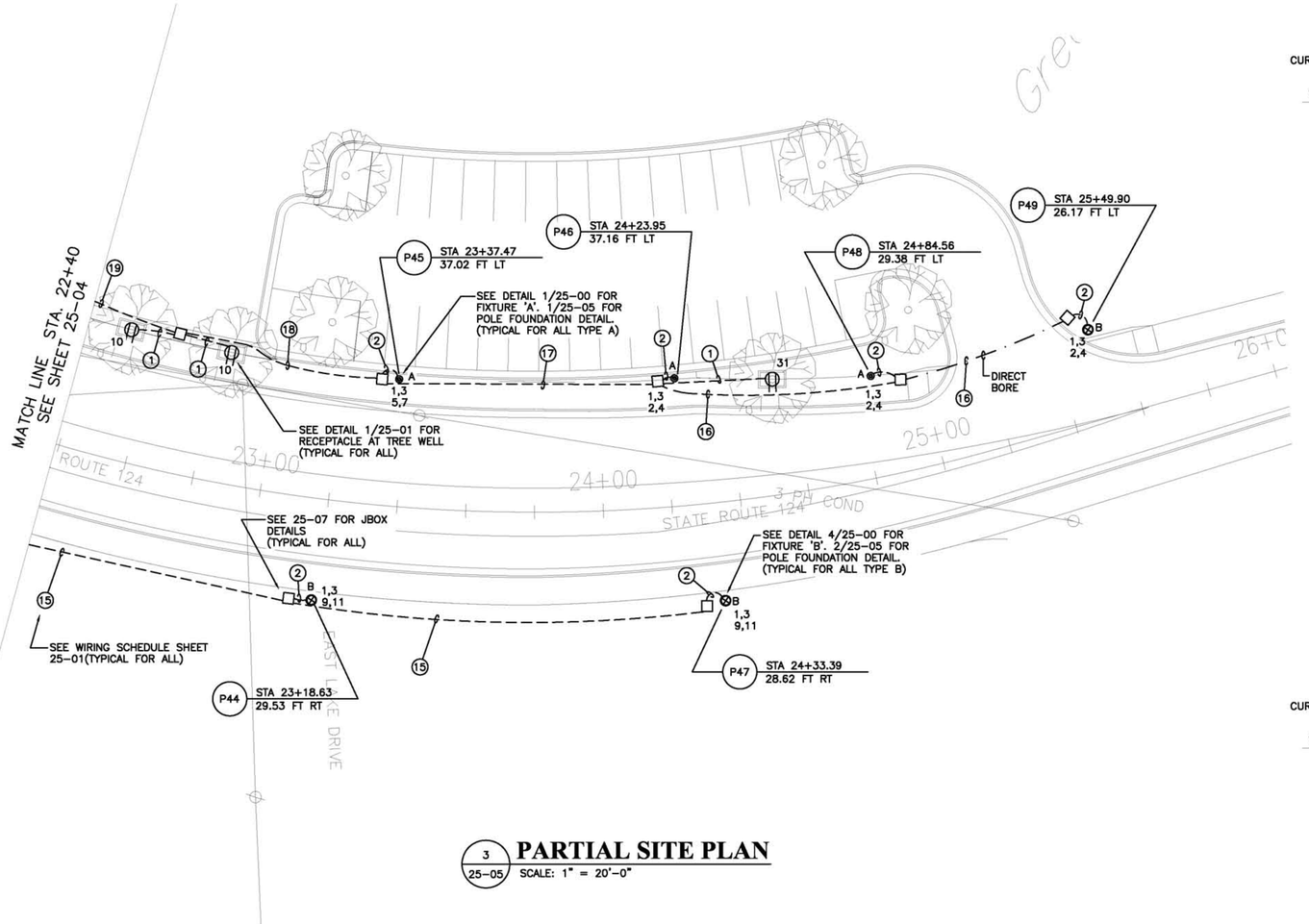
SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
LIGHTING PLANS
SR 53 STREETSCAPE
DRAWING No. 25-04

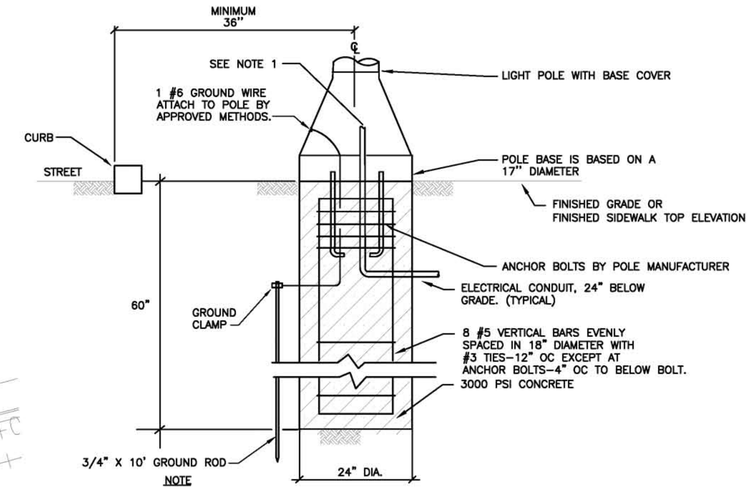
GPLN

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Jackson	CSTEE-0009-00(097)	43	99



PARTIAL SITE PLAN

3 / 25-05 SCALE: 1" = 20'-0"

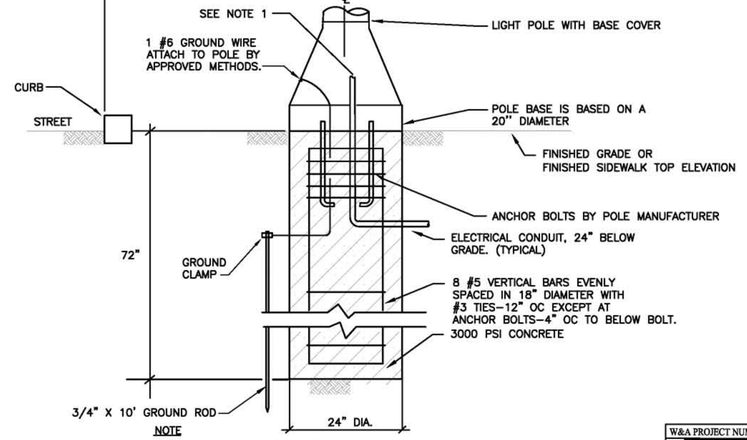


NOTE

1. PROVIDE AND INSTALL WEATHERPROOF INLINE FUSE FOR EACH PHASE CONDUCTOR FOR THE FIXTURE. FUSE @2 AMPS. LOCATE IN POLE BASE.

FIXTURE TYPE 'A' FOUNDATION DETAIL

1 / 25-05 SCALE: NTS



NOTE

1. PROVIDE AND INSTALL WEATHERPROOF INLINE FUSE FOR EACH PHASE CONDUCTOR FOR THE FIXTURE. FUSE @2 AMPS. LOCATE IN POLE BASE.

FIXTURE TYPE 'B' FOUNDATION DETAIL

2 / 25-05 SCALE: NTS

W&A PROJECT NUMBER - 09079
WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388
PLOT SCALE: 1=1

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

BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

JJG

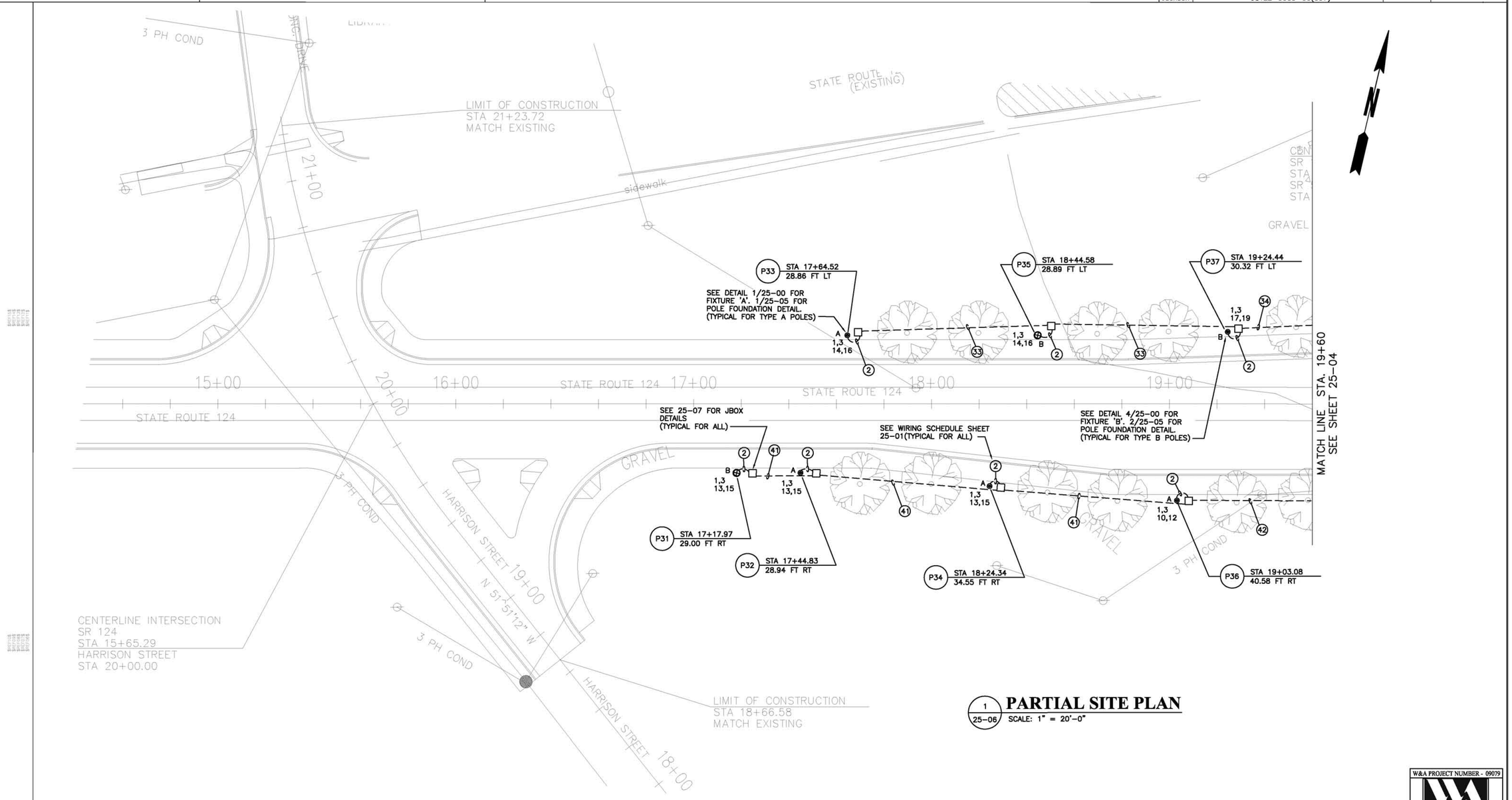
NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
LIGHTING PLANS
SR 53 STREETSCAPE
DRAWING No. 25-05

GPLN

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Jackson	CSTEE-0009-00(097)	44	99



1 / 25-06 PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

W&A PROJECT NUMBER - 09079

WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388

PLOT SCALE: 1=1

PROPERTY AND EXISTING R/W LINE	℄	BEGIN LIMIT OF ACCESS .....BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS .....ELA
CONSTRUCTION LIMITS	C F	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES		
EASEMENT FOR CONSTR OF DRIVES		

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET

0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

LIGHTING PLANS

SR 53 STREETSCAPE

DRAWING No. 25-06

GPLN

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Jackson	CSTEE-0009-00(097)	45	99

PANEL A

VOLTAGE: 120/240V AMPS: 300A MLO SURFACE
3 PHASE, 4 WIRE TOTAL LOAD: 55.3 KVA

CONDUCTORS	No.	SERVES	LOAD (KVA) LTG	RCPT	MTR	A/C	KITCH	MISC	BRKR TRIP	P	PH A	PH B	BRKR P	BRKR TRIP	LOAD (KVA) MISC	KITCH	A/C	MTR	RCPT	LTG	SERVES	No.	CONDUCTORS
6's	1	LIGHTS	2.90						30	2	4.40		1	20					1.50		OUTLETS	2	1/0
6's	3	LIGHTS	2.90									4.40	1	20					1.50		OUTLETS	4	1/0
2's	5	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	6	4's
2's	7	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	8	4's
8's	9	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	10	4's
8's	11	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	12	4's
2's	13	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	14	3's
2's	15	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	16	3's
3's	17	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	18	1's
3's	19	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	20	3's
3's	21	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	22	8's
6's	23	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	24	4's
4's	25	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	26	4's
4's	27	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	28	4's
4's	29	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	30	4's
4's	31	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	32	4's
4's	33	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	34	8's
	35	FUTURE		1.50					20	1		1.50	1	20								36	
	37								20	1	0.00		1	20								38	
	39								20	1		0.00	1	20								40	
	41								20	1	0.00		1	20								42	
											22.40	22.40			0.00	0.00	0.00	0.00	49.50	5.80	CONNECTED KVA 55.3		

PANEL B

VOLTAGE: 120/240V AMPS: 300A MLO SURFACE
3 PHASE, 4 WIRE TOTAL LOAD: 53.0 KVA

CONDUCTORS	No.	SERVES	LOAD (KVA) LTG	RCPT	MTR	A/C	KITCH	MISC	BRKR TRIP	P	PH A	PH B	BRKR P	BRKR TRIP	LOAD (KVA) MISC	KITCH	A/C	MTR	RCPT	LTG	SERVES	No.	CONDUCTORS
4's/8's	1	LIGHTS	3.27						40	2	4.77		1	20					1.50		OUTLETS	2	2's
4's/8's	3	LIGHTS	3.27									4.77	1	20					1.50		OUTLETS	4	2's
4's	5	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	6	4's
4's	7	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	8	4's
4's	9	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	10	6's
4's	11	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	12	6's
6's	13	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	14	6's
3's	15	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	16	6's
3's	17	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	18	4's
1's	19	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	20	2's
1's	21	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	22	1's
1/0	23	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	24	1's
1/0	25	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	26	1/0
1/0	27	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	28	1/0
1/0	29	OUTLETS		1.50					20	1	3.00		1	20					1.50		OUTLETS	30	1/0
2's	31	OUTLETS		1.50					20	1		3.00	1	20					1.50		OUTLETS	32	2's
	33	SPACE								1	1.50		1	20					1.50		OUTLETS	34	2's
	35	SPACE								1		0.00	1								SPACE	36	
	37	SPACE								1	0.00		1								SPACE	38	
	39	SPACE								1		0.00	1								SPACE	40	
	41	SPACE								1	0.00		1								SPACE	42	
											22.77	22.77			0.00	0.00	0.00	0.00	46.50	6.54	CONNECTED KVA 53.04		

FIXTURE NUMBER & FIXTURE DESIGNATION (TYP)

STATION NUMBER (TYP)

P9 STA 312+10 101 FT RT

OFFSET (TYP)

1 / 25-07 **TYPICAL LIGHT POLE IDENTIFICATION**

SCALE: NTS

QUANTITY TAKEOFF

ITEM DESCRIPTION	UNITS	QUANTITY
CLASS A CONCRETE	CY	25
BAR REINF STEEL	LB	4,900
FIXTURE, TYPE 'A'	EA	40
FIXTURE, TYPE 'B'	EA	9
FIXTURE, TYPE 'C'	EA	7
300A 120/240V 1PH/3W PANEL W/300A MAIN BREAKER	EA	2
NEMA 1 ENCLOSURE CAT# A8N84	EA	11
DUPLEX RECEPTACLE, GFCI, WP TYPE	EA	47
CONDUIT, RIGID, 2 IN	LF	305
CONDUIT, RIGID, 2-1/2 IN	LF	290
CONDUIT, RIGID, 3 IN	LF	80
CONDUIT, NONMETL, TP 2, 1/2 IN	LF	90
CONDUIT, NONMETL, TP 2, 3/4 IN	LF	725
CONDUIT, NONMETL, TP 2, 1 IN	LF	380
CONDUIT, NONMETL, TP 2, 2 IN	LF	3,300
CONDUIT, NONMETL, TP 2, 2-1/2 IN	LF	1,250
CONDUIT, NONMETL, TP 2, 3 IN	LF	1,900
GROUND ROD, 10" X 3/4" COPPER CLAD	EA	4
ELECTRICAL JUNCTION BOX, CONC GROUND MOUNTED	EA	67
CABLE, TP XHHW,AWG NO 1/0	LF	12,180
CABLE, TP XHHW,AWG NO 1	LF	7,950
CABLE, TP XHHW,AWG NO 2	LF	9,630
CABLE, TP XHHW, AWG NO 3	LF	8,040
CABLE, TP XHHW,AWG NO 4	LF	24,000
CABLE, TP XHHW, AWG NO 6	LF	9,265
CABLE, TP XHHW, AWG NO 8	LF	5,200
CABLE, TP XHHW, AWG NO 10	LF	2,680
CABLE, TP XHHW, AWG NO 12	LF	35

FIXTURE TABLE

Pole No.	Station No.	Offset	(R)or(L)	SERVICE	Fixture Type	Voltage
P1	44+97.26	24.16	RT	B	A	240
P2	45+69.30	24.29	RT	B	A	240
P3	46+49.45	24.66	RT	B	A	240
P4	47+34.94	33.70	LT	A	A	240
P4A	47+53.67	31.65	RT	B	A	240
P5	48+14.15	30.16	LT	A	A	240
P6	48+17.63	36.62	RT	B	A	240
P6A	48+80.33	36.55	RT	B	A	240
P7	48+94.72	26.53	LT	A	A	240
P8	49+76.04	24.78	LT	A	A	240
P9	50+20.08	27.19	RT	B	A	240
P10	50+53.96	23.54	LT	A	A	240
P11	50+91.79	24.85	RT	B	A	240
P12	51+54.56	24.41	LT	A	A	240
P13	51+56.36	24.86	RT	B	A	240
P14	52+45.94	24.14	LT	A	A	240
P15	52+61.37	24.59	RT	B	A	240
P16	53+25.62	24.41	LT	B	A	240
P17	53+41.30	24.30	RT	A	A	240
P18	54+26.25	29.01	RT	B	A	240
P19	54+78.63	37.92	LT	A	A	240
P20	55+01.10	39.42	RT	B	A	240
P21	55+29.23	39.35	LT	A	A	240
P22	55+81.68	36.61	RT	B	A	240
P23	55+85.37	35.07	LT	A	A	240
P24	56+62.33	38.10	RT	B	A	240
P25	56+81.84	28.40	LT	B	A	240
P26	57+42.58	38.75	RT	A	B	240
P27	59+16.73	29.19	RT	B	A	240
P28	59+21.37	43.94	LT	A	A	240
P29	59+94.75	29.36	RT	A	A	240
P30	60+04.22	49.82	LT	A	A	240
P31	17+17.97	29.00	RT	A	B	240
P32	17+44.83	28.94	RT	A	A	240
P33	17+64.52	28.86	LT	A	A	240
P34	18+24.34	34.55	RT	A	A	240
P35	18+44.58	28.89	LT	A	B	240
P36	19+03.08	40.58	RT	A	A	240
P37	19+24.44	30.32	LT	A	B	240
P38	19+83.08	40.58	RT	A	A	240
P39	19+98.21	36.77	LT	A	A	240
P40	20+29.08	58.88	RT	A	B	240
P41	21+63.43	43.03	LT	B	A	240
P42	22+05.44	28.74	RT	B	B	240
P43	22+36.61	39.99	LT	B	A	240
P44	23+18.63	29.53	RT	B	B	240
P45	23+37.47	37.02	LT	B	A	240
P46	24+23.95	37.16	LT	B	A	240
P47	24+33.39	28.62	RT	B	B	240
P48	24+84.56	29.38	LT	B	A	240
P49	25.+49.90	26.17	LT	B	B	240

W&A PROJECT NUMBER - 09079

WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388
PLOT SCALE: 1 = 1

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

BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

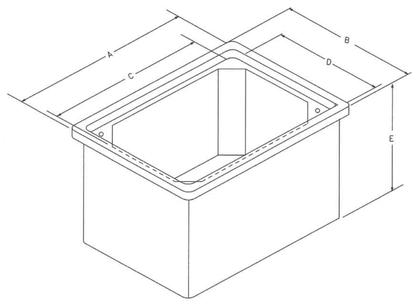
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
LIGHTING PLANS
SR 53 STREETSCAPE

DRAWING No. 25-07

GPLN

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
Jackson	CSTEE-0009-00(097)	46	99

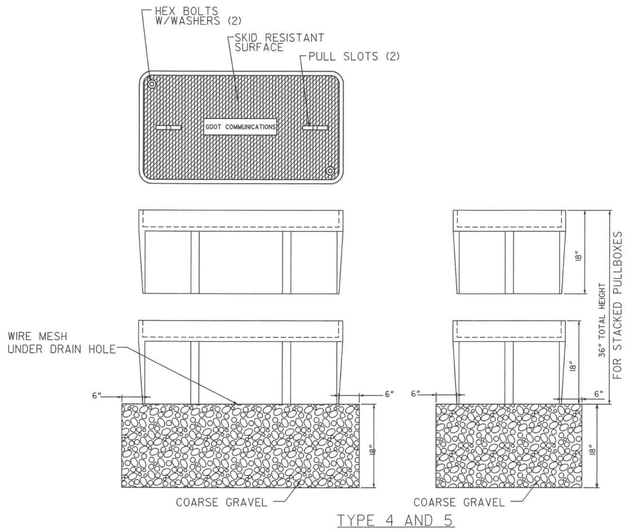
PULLBOX DIMENSIONS



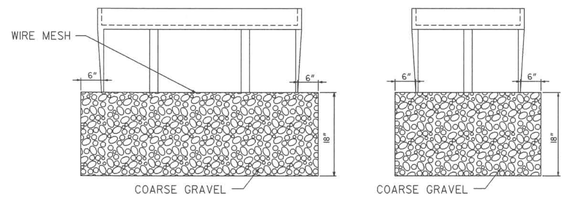
PULL BOX TYPE	* SIZE (IN.)				
	A	B	C	D	E
1	14	14	12	12	12
2	21	14	18	11	12
3	33	20	30	17	12
4S	38	26	36	24	18
4	38	26	36	24	36
5S	50	32	48	30	18
5	50	32	48	30	36
6	38	26	36	24	36
7	50	32	48	30	36

* SIZES SHOWN ARE MINIMUM TRADE SIZES. DIMENSIONS C AND D ARE MINIMUM REQUIREMENTS WITH A TOLERANCE OF NO MORE THAN - 0.50 IN/+2.0 IN.

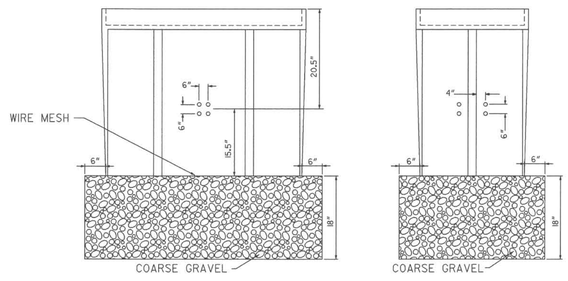
TYPE 4, 5, 4S, 5S, 6, AND 7 PULLBOX ASSEMBLIES



TYPE 4 AND 5



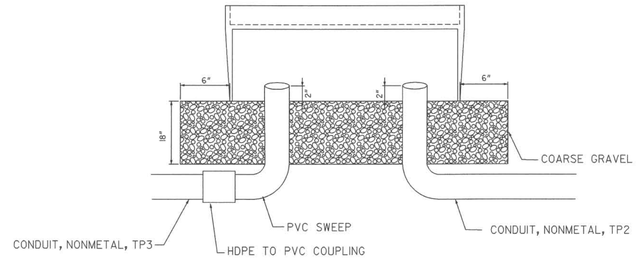
TYPE 4S AND 5S



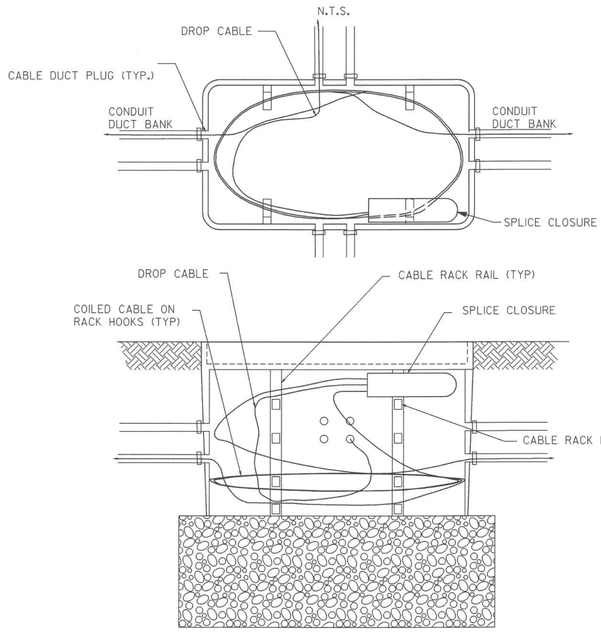
TYPE 6 AND 7

TYPICAL CONDUIT ENTRANCE DETAILS

TYPE 1,2,3,4S & 5S



FIBER OPTIC CABLE MANAGEMENT IN TYPE 4,5,6 & 7 PULL BOX



FIBER TRUNK AND DROP CABLE IN CLOSURE SHALL BE COILED TOGETHER. SEPARATE FIBER CABLES SHALL BE COILED SEPARATELY AND SUPPORTED ON SEPARATE RACK HOOKS.

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1' =300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

W&A PROJECT NUMBER - 09079
WOMACK & ASSOCIATES CONSULTING ENGINEERS
4200 Perimeter Park South, Suite 225
Atlanta, Georgia 30341
Voice 770-458-3005 Fax 770-458-8388

PLOT SCALE: 1 = 1

FOR REFERENCE ONLY

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

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
REQ'D R/W AND LIMIT OF ACCESS	

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

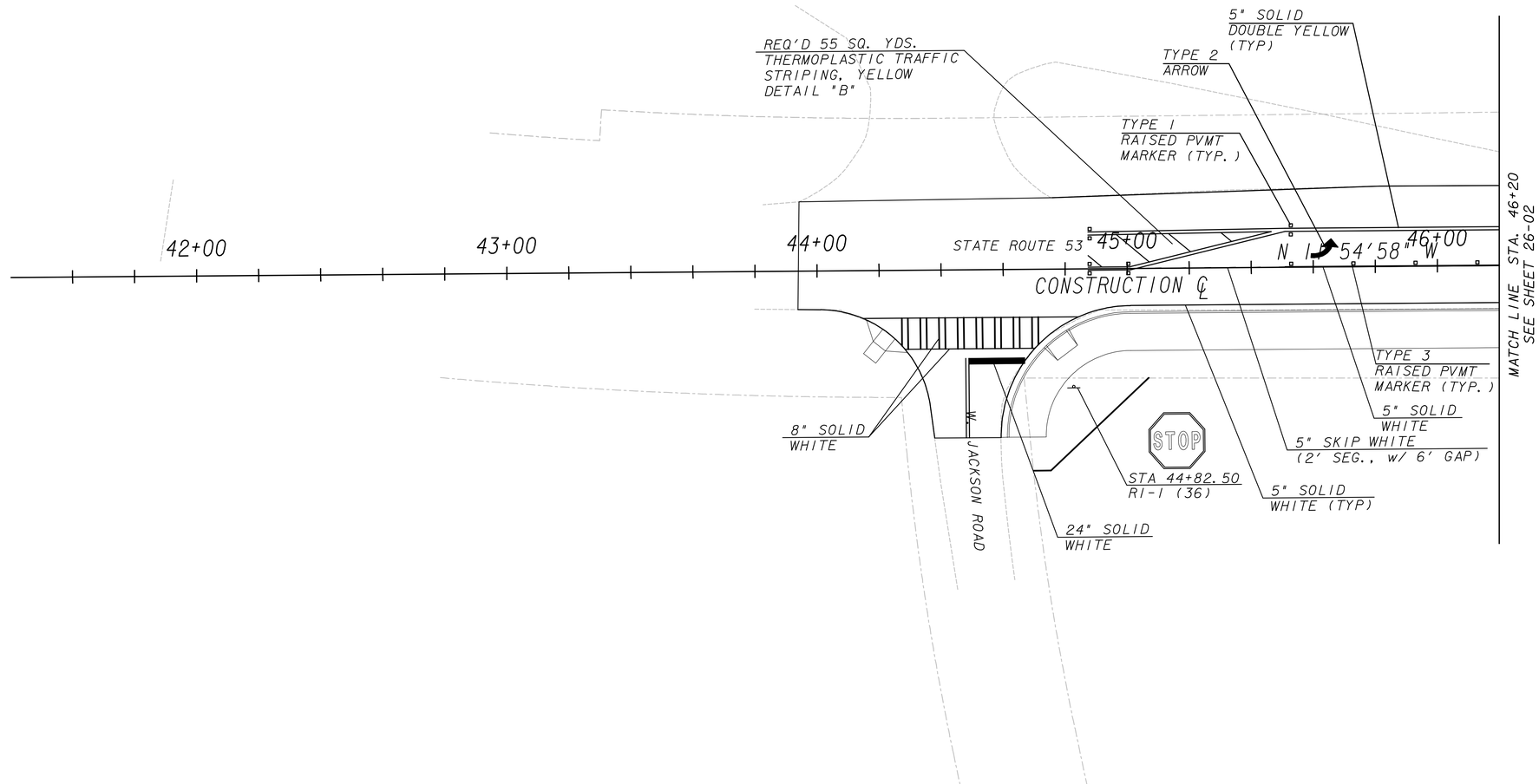
OFFICE:

LIGHTING PLANS

SR 53 STREETSCAPE

DRAWING No. 25-08

GPLN



EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

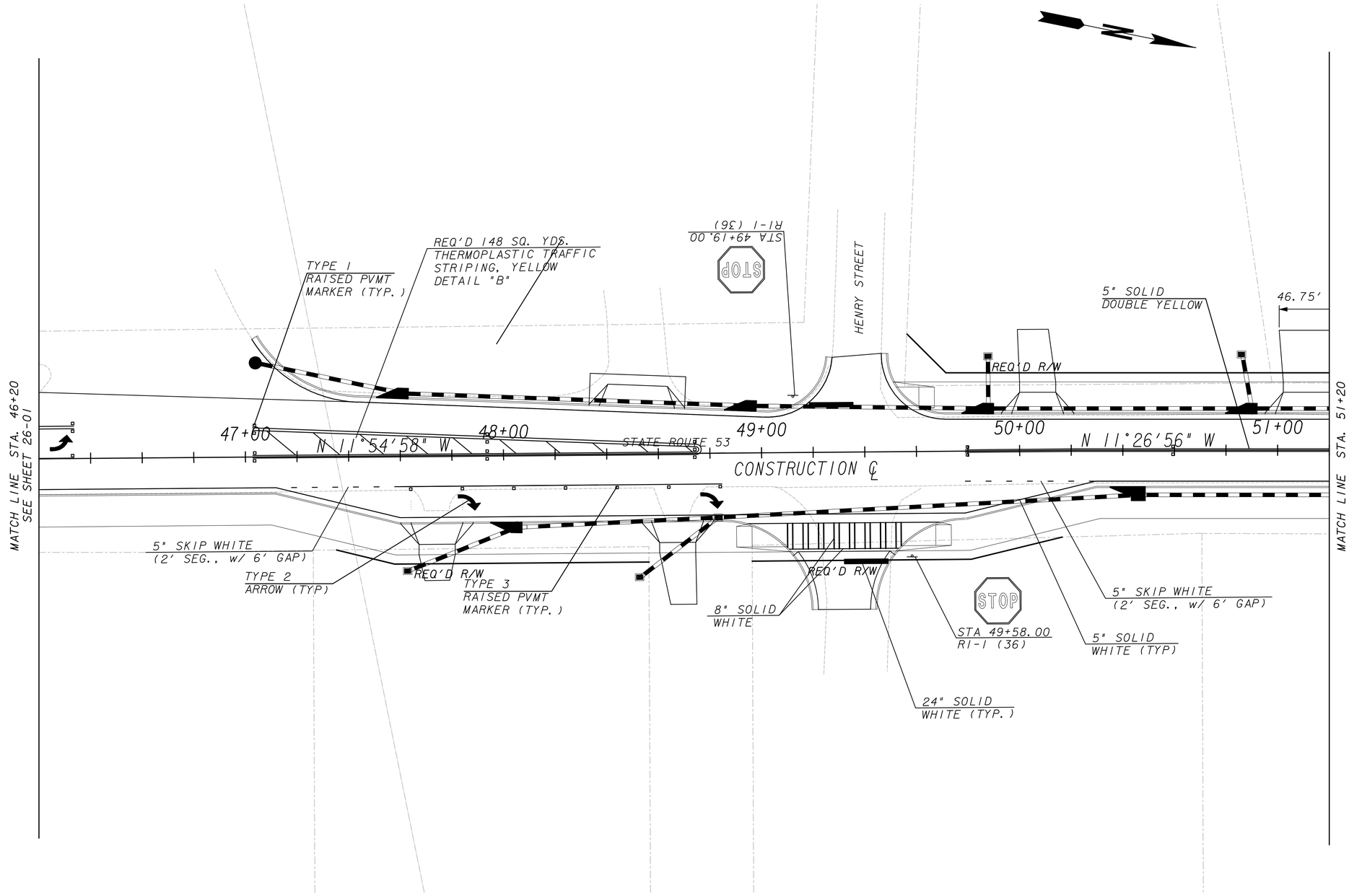
SIGNING AND MARKING PLANS

SR 53 STREETSCAPE

DRAWING No. 26-01

GPLN

11/3/2010 brad.gray	3:25:39 PM	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097sm02.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	CSTEE-0009-00(097)	48	99



EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	REQUIRED R/W LINE
EASEMENT FOR CONSTR OF SLOPES	CONSTRUCTION LIMITS
EASEMENT FOR CONSTR OF DRIVES	R/W AND LIMIT OF ACCESS
	EXISTING R/W LINE
	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

SIGNING AND MARKING PLANS

SR 53 STREETSCAPE

DRAWING No. 26-02

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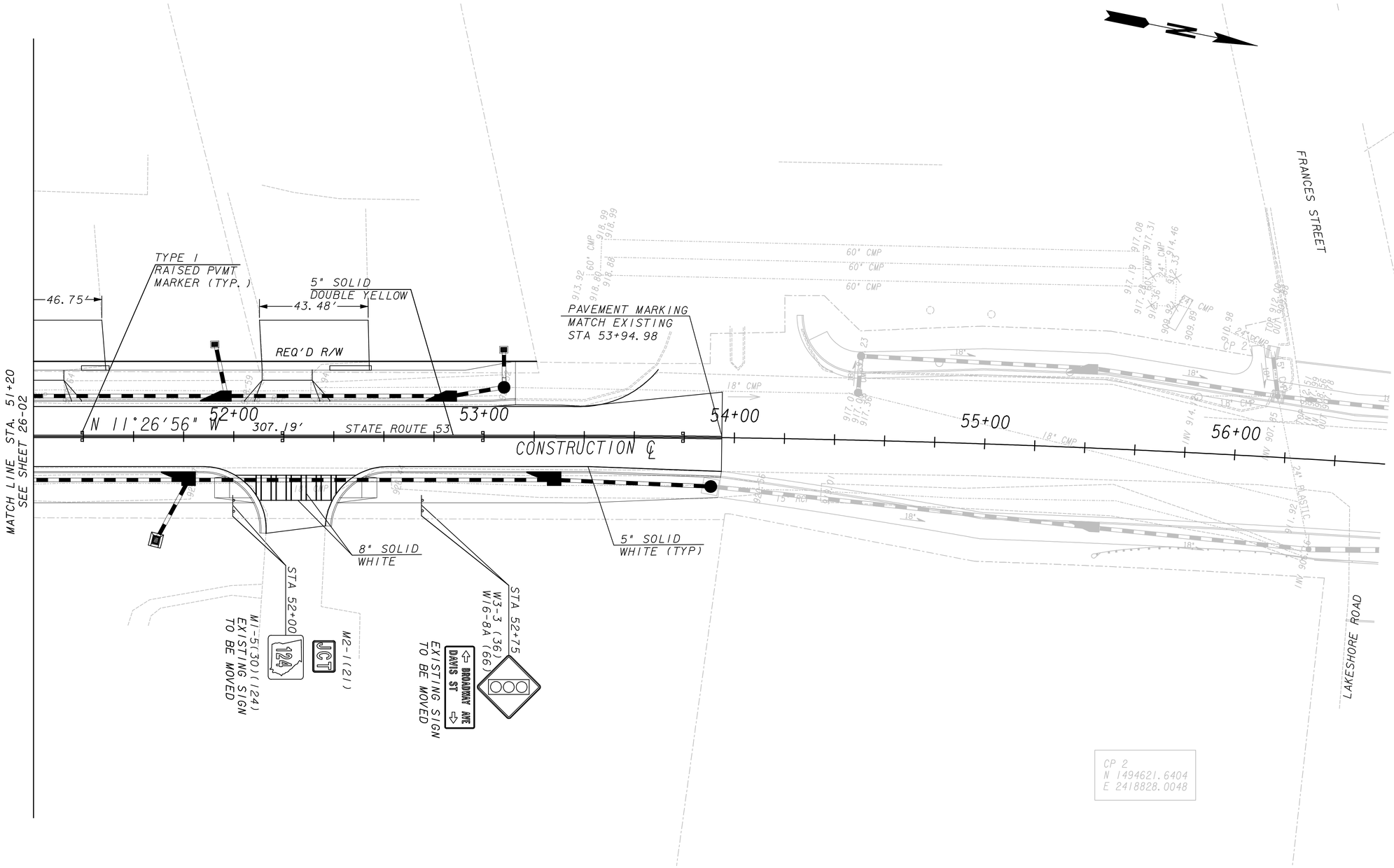
			GA	CSTEE-0009-00(097)	49	99



EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	REQUIRED R/W LINE
EASEMENT FOR CONSTR OF SLOPES	CONSTRUCTION LIMITS
EASEMENT FOR CONSTR OF DRIVES	R/W AND LIMIT OF ACCESS
	EXISTING R/W LINE
	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

SIGNING AND MARKING PLANS

SR 53 STREETSCAPE

DRAWING No. 26-03

GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	50	99

PLANT LIST

SYM.	BOTANICAL NAME COMMON NAME	SIZE	HEIGHT	SPACING	QTY.	NOTES
	TREES					
	AMELANCHIER x GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY	2" CAL.	8'-10'	AS INDICATED	9	MULTI-TRUNK - 3 CANES
	CARPINUS CAROLINIANA AMERICAN HORNBEAM	2.5" CAL.	12'-14'	AS INDICATED	3	SINGLE TRUNK, WELL BRANCHED
	MAGNOLIA GRANDIFLORA 'ALTA' ALTA MAGNOLIA	2.5" CAL.	12'-14'	AS INDICATED	5	MULTI-TRUNK - 3 CANES
	MAGNOLIA VIRGINIANA 'CULLY' CULLY SWEETBAY MAGNOLIA	2.5" CAL.	12'-14'	AS INDICATED	5	SINGLE TRUNK, WELL BRANCHED
	MAGNOLIA X SOULANGIANA 'VERBANICA' SAUCER MAGNOLIA	2.5" CAL.	12'-14'	AS INDICATED	1	SINGLE TRUNK, WELL BRANCHED
	QUERCUS NUTTALLI NUTTALL OAK	3" CAL.	12'-14'	AS INDICATED	6	SINGLE TRUNK, WELL BRANCHED
	TAXODIUM DISTICHUM 'SOFINE' AUTUMN GOLD BALD CYPRESS	3" CAL.	12'-14'	AS INDICATED	13	SINGLE TRUNK, WELL BRANCHED
	ULMUS AMERICANA 'PRINCETON' PRINCETON ELM	3" CAL.	12'-14'	AS INDICATED	24	SINGLE TRUNK, WELL BRANCHED
	SHRUBS/GROUNDCOVER					
	CLETHRA ALNIFOLIA 'HUMMINGBIRD' DWARF SUMMERSWEET CLETHRA	3 GAL.	–	AS INDICATED	73	FULL; WELL BRANCHED
	LIRIOPE MUSCARI 'BIG BLUE' BIG BLUE LILYTURF	4 IN. POT	–	12" O.C.	x	FULL; MATCHING
	THUJA OCCIDENTALIS 'GOLDEN GLOBE' GOLDEN GLOBE ARBORVITAE	3 GAL.	–	2' O.C.	x	FULL; WELL BRANCHED
	MUHLENBERGIA CAPILLARIS PINK MUHLEY GRASS	1 GAL.	–	2' O.C.	x	FULL; NOT CUT
	BERMUDA SOD 'TIFWAY 419'		–	–	x	INSTALL FROM ROLLS, CERT. WEED FREE

PAVING LEGEND:

DUBLIN COBBLE IN MODULAR PATTERN B1+B2. COLOR: POTOMAC BLEND. BY BELGARD 877-235-4273

ALTERNATE: PLAZA STONE COMBINED WITH PLAZA STONE II IN COMBO PATTERN. COLOR: OLD TOWN BLEND. BY PAVESTONE 770-306-9691

CONCRETE PAVING WITH EXPOSED AGGREGATE SURFACE WITH #50 TOP CAST BY DAYTON SUPERIOR

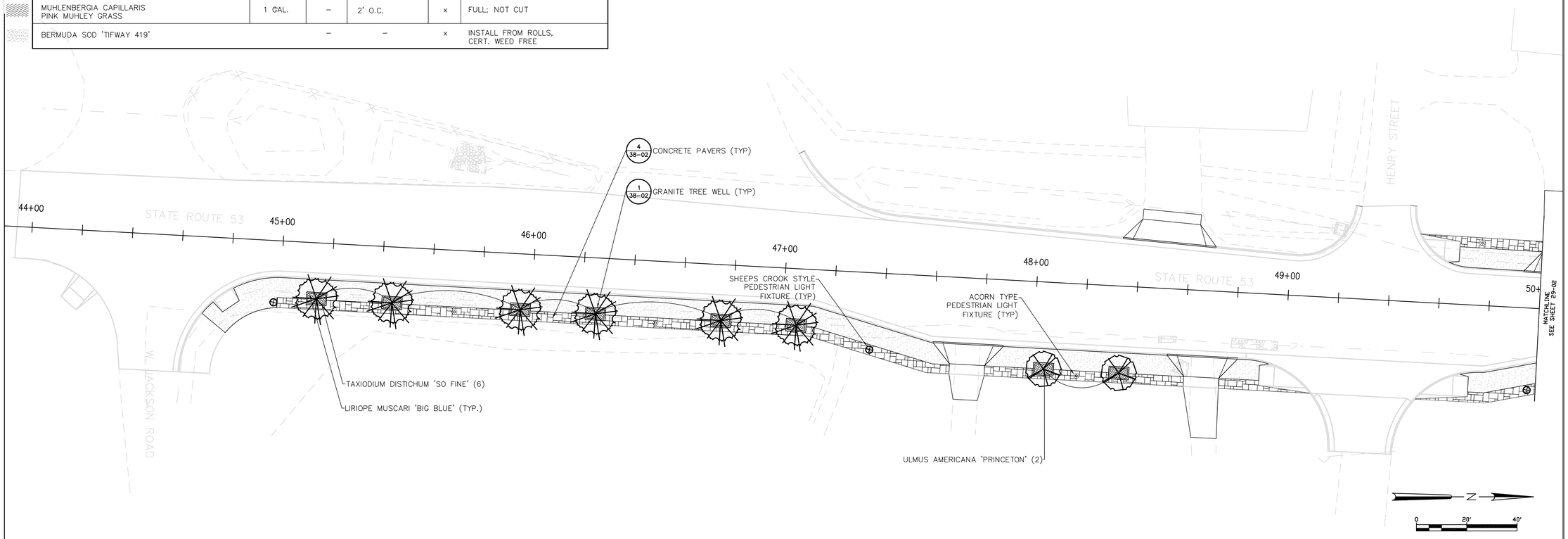
ALTERNATE: PRODUCTS BY SCOFIELD SYSTEMS OR APPROVED EQUAL, 770-833-7429.

"HOLLAND STONE" LAYOUT IN HERRINGBONE PATTERN WITH RUNNING BOND BORDER. COLOR: GEORGIA BLEND. AVAILABLE THROUGH BELGARD

ALTERNATE: "HOLLAND STONE"-HOLLAND STONE HERITAGE SERIES. LAYOUT IN HERRING BONE PATTERN WITH A SOLDIER COURSE BORDER. COLOR: OLD TOWN BLEND AVAILABLE THROUGH PAVESTONE

NOTES:
1. LAYOUT OF SITE FURNISHINGS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL LAYOUT IS TO BE COMPLETED IN FIELD BY CITY'S REPRESENTATIVE.

2. SELECTION AS SHOWN OR AS APPROVED EQUAL.



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

BEGIN LIMIT OF ACCESS	BLA
END LIMIT OF ACCESS	ELA
LIMIT OF ACCESS	
REQ'D R/W AND LIMIT OF ACCESS	

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

LANDSCAPE PLAN SHEET 1 OF 6

SR 53 STREETSCAPE

DRAWING No. 29-01

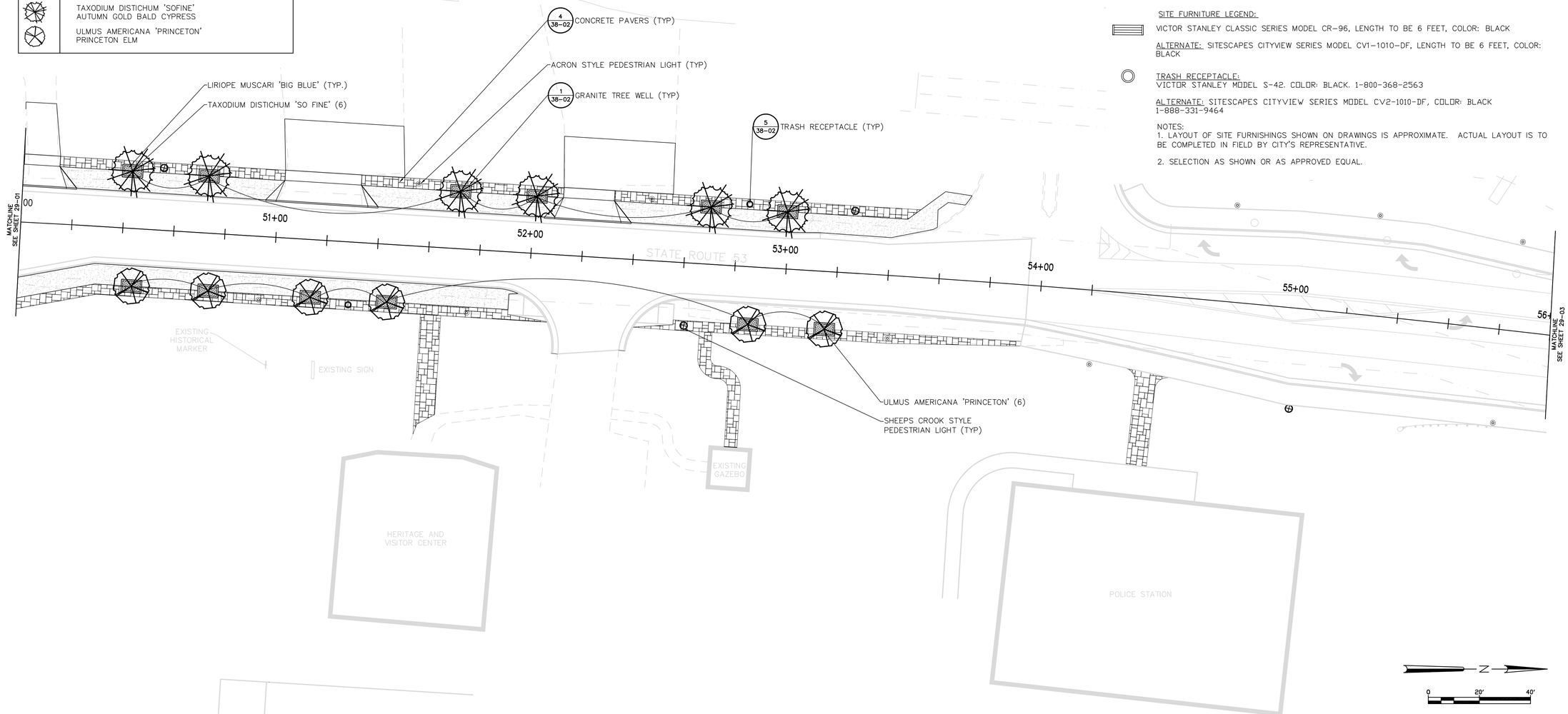
GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	51	99

LANDSCAPE KEY

TREES	
	AMELANCHIER x GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY
	CARPINUS CAROLINIANA AMERICAN HORNBEAM
	MAGNOLIA GRANDIFLORA 'ALTA' ALTA MAGNOLIA
	MAGNOLIA X SOULANGIANA 'VERBANICA' SAUCER MAGNOLIA
	MAGNOLIA VIRGINIANA 'CULLY' CULLY SWEETBAY MAGNOLIA
	QUERCUS NUTTALLI NUTTALL OAK
	TAXODIUM DISTICHUM 'SOFINE' AUTUMN GOLD BALD CYPRESS
	ULMUS AMERICANA 'PRINCETON' PRINCETON ELM

SHRUBS/GROUNDCOVER	
	LIRIOPE MUSCARI 'BIG BLUE' BIG BLUE LILYTURF
	THUJA OCCIDENTALIS 'GOLDEN GLOBE' GOLDEN GLOBE ARBORVITAE
	MUHLENBERGIA CAPILLARIS PINK MUHLEY GRASS
	BERMUDA SOD 'TIFWAY 419'



PAVING LEGEND:

DUBLIN COBBLE IN MODULAR PATTERN B1+B2. COLOR: POTOMAC BLEND. BY BELGARD 877-235-4273

ALTERNATE: PLAZA STONE COMBINED WITH PLAZA STONE II IN COMBO PATTERN. COLOR: OLD TOWN BLEND. BY PAVESTONE 770-306-9691

CONCRETE PAVING WITH EXPOSED AGGREGATE SURFACE WITH #50 TOP CAST BY DAYTON SUPERIOR

ALTERNATE: PRODUCTS BY SCOFIELD SYSTEMS OR APPROVED EQUAL, 770-833-7429.

"HOLLAND STONE" LAYOUT IN HERRINGBONE PATTERN WITH RUNNING BOND BORDER. COLOR: GEORGIA BLEND. AVAILABLE THROUGH BELGARD

ALTERNATE: "HOLLAND STONE"-HOLLAND STONE HERITAGE SERIES. LAYOUT IN HERRING BONE PATTERN WITH A SOLDIER COURSE BORDER. COLOR: OLD TOWN BLEND AVAILABLE THROUGH PAVESTONE

SITE FURNITURE LEGEND:

VICTOR STANLEY CLASSIC SERIES MODEL CR-96, LENGTH TO BE 6 FEET, COLOR: BLACK

ALTERNATE: SITESCAPES CITYVIEW SERIES MODEL CV1-1010-DF, LENGTH TO BE 6 FEET, COLOR: BLACK

TRASH RECEPTACLE:
VICTOR STANLEY MODEL S-42. COLOR: BLACK. 1-800-368-2563

ALTERNATE: SITESCAPES CITYVIEW SERIES MODEL CV2-1010-DF, COLOR: BLACK 1-888-331-9464

NOTES:
1. LAYOUT OF SITE FURNISHINGS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL LAYOUT IS TO BE COMPLETED IN FIELD BY CITY'S REPRESENTATIVE.

2. SELECTION AS SHOWN OR AS APPROVED EQUAL.

PROPERTY AND EXISTING R/W LINE	PL	BEGIN LIMIT OF ACCESS .....BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS .....ELA
CONSTRUCTION LIMITS	C F	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES		
EASEMENT FOR CONSTR OF DRIVES		

JJG

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

LANDSCAPE PLAN
SHEET 2 OF 6

SR 53 STREETSCAPE

DRAWING No. 29-02

GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	52	99

4/38-02 CONCRETE PAVERS (TYP)

1/38-02 GRANITE TREE WELL (TYP)

AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' (2)

LIRIOPE MUSCARI 'BIG BLUE' (TYP.)

SHEEPS CROOK STYLE PEDESTRIAN LIGHT (TYP.)

ACORN STYLE PEDESTRIAN LIGHT (TYP.)

MATCHLINE SEE SHEET 29-02

STATE ROUTE 53

STATE ROUTE 124

REQ'D R/W

SEE ENLARGEMENT ON SHEET 29-04

SEE ENLARGEMENT ON SHEET 29-05

SEE ENLARGEMENT ON SHEET 29-06

EXISTING RAMP

EXISTING STEPS

57+00 58+00 59+00 60+00 61+00

20+00 21+00 22+00 23+00

PAVING LEGEND:

DUBLIN COBBLE IN MODULAR PATTERN B1+B2. COLOR: POTOMAC BLEND. BY BELGARD 877-235-4273

ALTERNATE: PLAZA STONE COMBINED WITH PLAZA STONE II IN COMBO PATTERN. COLOR: OLD TOWN BLEND. BY PAVESTONE 770-306-9691

CONCRETE PAVING WITH EXPOSED AGGREGATE SURFACE WITH #50 TOP CAST BY DAYTON SUPERIOR

ALTERNATE: PRODUCTS BY SCOFIELD SYSTEMS OR APPROVED EQUAL, 770-833-7429.

"HOLLAND STONE" LAYOUT IN HERRINGBONE PATTERN WITH RUNNING BOND BORDER. COLOR: GEORGIA BLEND. AVAILABLE THROUGH BELGARD

ALTERNATE: "HOLLAND STONE"-HOLLAND STONE HERITAGE SERIES. LAYOUT IN HERRING BONE PATTERN WITH A SOLDIER COURSE BORDER. COLOR: OLD TOWN BLEND AVAILABLE THROUGH PAVESTONE

SITE FURNITURE:

VICTOR STANLEY CLASSIC SERIES MODEL CR-96, LENGTH TO BE 6 FEET, COLOR: BLACK

ALTERNATE: SITESCAPES CITYVIEW SERIES MODEL CV1-1010-DF, LENGTH TO BE 6 FEET, COLOR: BLACK

TRASH RECEPTACLE:
VICTOR STANLEY MODEL S-42. COLOR: BLACK. 1-800-368-2563

ALTERNATE: SITESCAPES CITYVIEW SERIES MODEL CV2-1010-DF, COLOR: BLACK 1-888-331-9464

NOTES:
1. LAYOUT OF SITE FURNISHINGS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL LAYOUT IS TO BE COMPLETED IN FIELD BY CITY'S REPRESENTATIVE.

2. SELECTION AS SHOWN OR AS APPROVED EQUAL.

LANDSCAPE KEY

	TREES
	AMELANCHIER x GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY
	CARPINUS CAROLINIANA AMERICAN HORNBEAM
	MAGNOLIA GRANDIFLORA 'ALTA' ALTA MAGNOLIA
	MAGNOLIA X SOULANGIANA 'VERBANICA' SAUCER MAGNOLIA
	MAGNOLIA VIRGINIANA 'CULLY' CULLY SWEETBAY MAGNOLIA
	QUERCUS NUTTALLI NUTTALL OAK
	TAXODIUM DISTICHUM 'SOFINE' AUTUMN GOLD BALD CYPRESS
	ULMUS AMERICANA 'PRINCETON' PRINCETON ELM
	SHRUBS/GROUNDCOVER
	LIRIOPE MUSCARI 'BIG BLUE' BIG BLUE LILYTURF
	THUJA OCCIDENTALIS 'GOLDEN GLOBE' GOLDEN GLOBE ARBORVITAE
	MUHLENBERGIA CAPILLARIS PINK MUHLEY GRASS
	BERMUDA SOD 'TIFWAY 419'

N

0 20' 40'

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

BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

LANDSCAPE PLAN
SHEET 3 OF 6

SR 53 STREETSCAPE

DRAWING No. 29-03

GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	53	99

LANDSCAPE KEY

	TREES
	AMELANCHIER x GRANDIFLORA 'AUTUMN BRILLIANCE' AUTUMN BRILLIANCE SERVICEBERRY
	CARPINUS CAROLINIANA AMERICAN HORNBEAM
	MAGNOLIA GRANDIFLORA 'ALTA' ALTA MAGNOLIA
	MAGNOLIA X SOULANGIANA 'VERBANICA' SAUCER MAGNOLIA
	MAGNOLIA VIRGINIANA 'CULLY' CULLY SWEETBAY MAGNOLIA
	QUERCUS NUTTALLI NUTTALL OAK
	TAXODIUM DISTICHUM 'SOFINE' AUTUMN GOLD BALD CYPRESS
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	MUHLENBERGIA CAPILLARIS PINK MUHLEY GRASS
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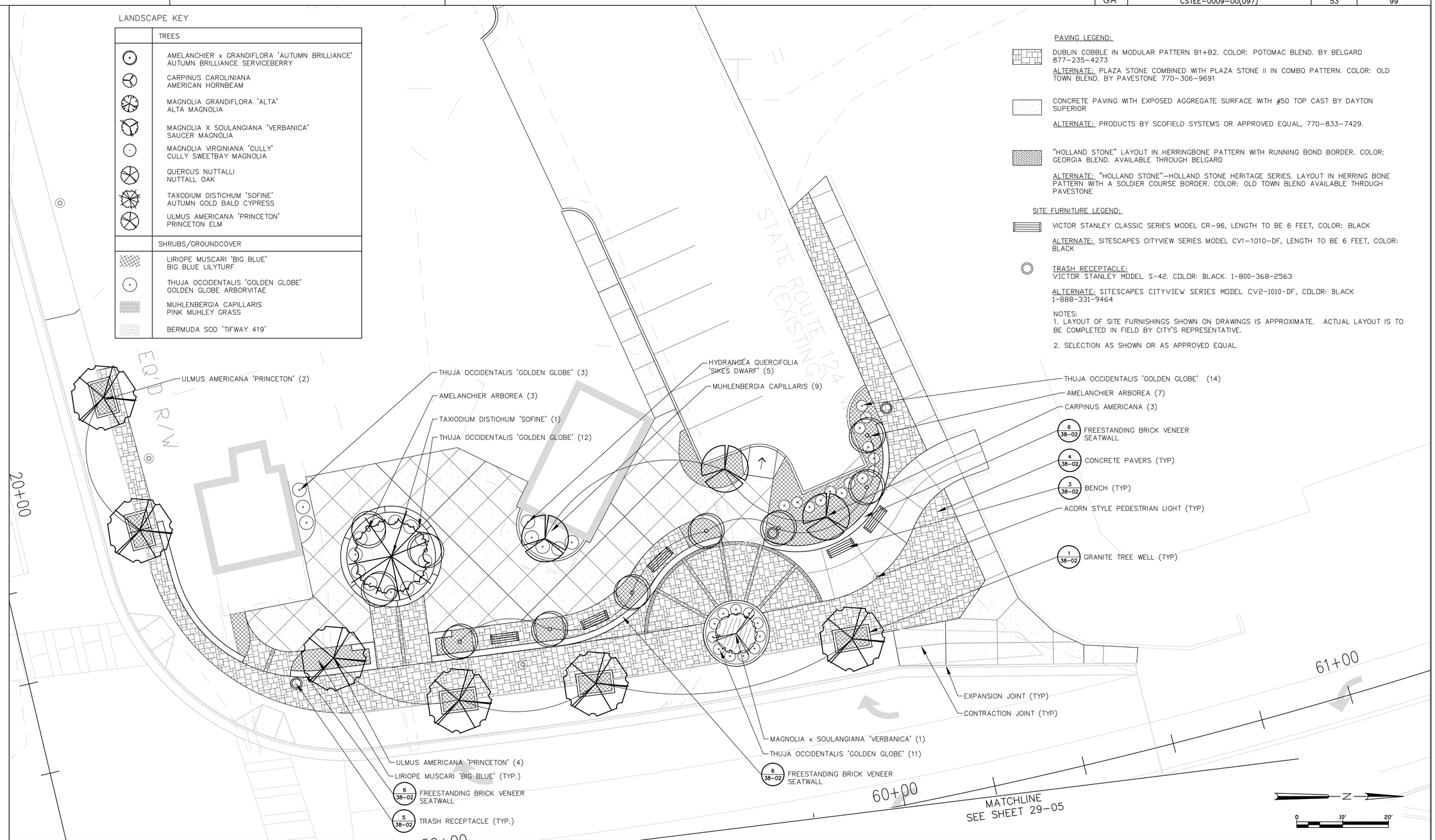

PAVING LEGEND:

DUBLIN COBBLE IN MODULAR PATTERN B1+B2. COLOR: POTOMAC BLEND. BY BELGARD 877-235-4273

ALTERNATE: PLAZA STONE COMBINED WITH PLAZA STONE II IN COMBO PATTERN. COLOR: OLD TOWN BLEND. BY PAVESTONE 770-306-9691

CONCRETE PAVING WITH EXPOSED AGGREGATE SURFACE WITH #50 TOP CAST BY DAYTON SUPERIOR

ALTERNATE: PRODUCTS BY SCOFIELD SYSTEMS OR APPROVED EQUAL, 770-833-7429.

"HOLLAND STONE" LAYOUT IN HERRINGBONE PATTERN WITH RUNNING BOND BORDER. COLOR: GEORGIA BLEND. AVAILABLE THROUGH BELGARD

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SITE FURNITURE LEGEND:

VICTOR STANLEY CLASSIC SERIES MODEL CR-96, LENGTH TO BE 6 FEET, COLOR: BLACK

ALTERNATE: SITESCAPES CITYVIEW SERIES MODEL CV1-1010-DF, LENGTH TO BE 6 FEET, COLOR: BLACK

TRASH RECEPTACLE:
VICTOR STANLEY MODEL S-42. COLOR: BLACK. 1-800-368-2563

ALTERNATE: SITESCAPES CITYVIEW SERIES MODEL CV2-1010-DF, COLOR: BLACK
1-888-331-9464

NOTES:
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2. SELECTION AS SHOWN OR AS APPROVED EQUAL.

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

BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

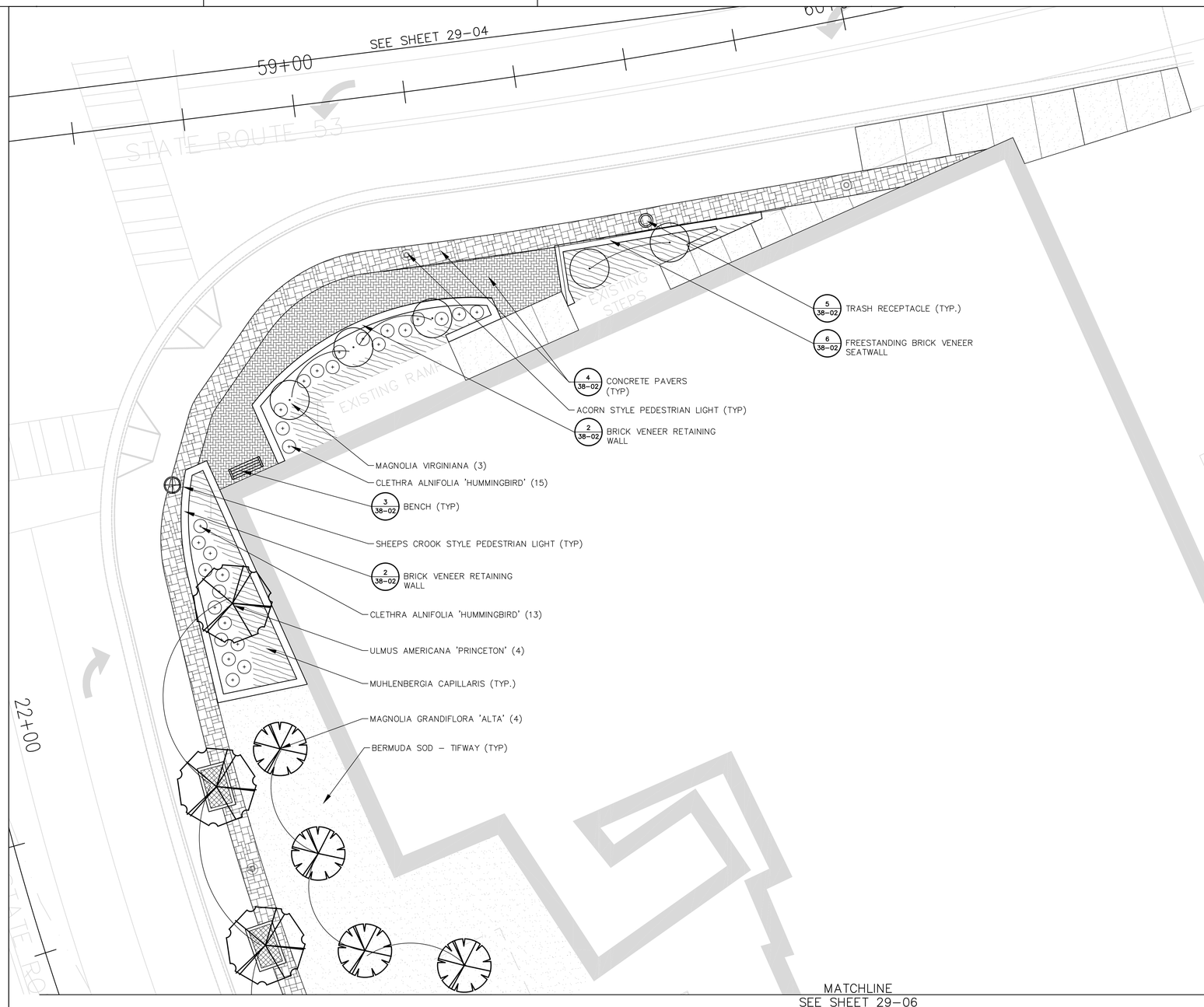
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

LANDSCAPE PLAN
SHEET 4 OF 6
SR 53 STREETSCAPE

DRAWING No. 29-04

GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	54	99



PAVING LEGEND:

DUBLIN COBBLE IN MODULAR PATTERN B1+B2. COLOR: POTOMAC BLEND. BY BELGARD 877-235-4273

ALTERNATE: PLAZA STONE COMBINED WITH PLAZA STONE II IN COMBO PATTERN. COLOR: OLD TOWN BLEND. BY PAVESTONE 770-306-9691

CONCRETE PAVING WITH EXPOSED AGGREGATE SURFACE WITH #50 TOP CAST BY DAYTON SUPERIOR

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"HOLLAND STONE" LAYOUT IN HERRINGBONE PATTERN WITH RUNNING BOND BORDER. COLOR: GEORGIA BLEND. AVAILABLE THROUGH BELGARD

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SITE FURNITURE LEGEND:

VICTOR STANLEY CLASSIC SERIES MODEL CR-96, LENGTH TO BE 6 FEET, COLOR: BLACK

ALTERNATE: SITESCAPES CITYVIEW SERIES MODEL CV1-1010-DF, LENGTH TO BE 6 FEET, COLOR: BLACK

TRASH RECEPTACLE:
VICTOR STANLEY MODEL S-42. COLOR: BLACK. 1-800-368-2563

ALTERNATE: SITESCAPES CITYVIEW SERIES MODEL CV2-1010-DF, COLOR: BLACK 1-888-331-9464

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LANDSCAPE KEY

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PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

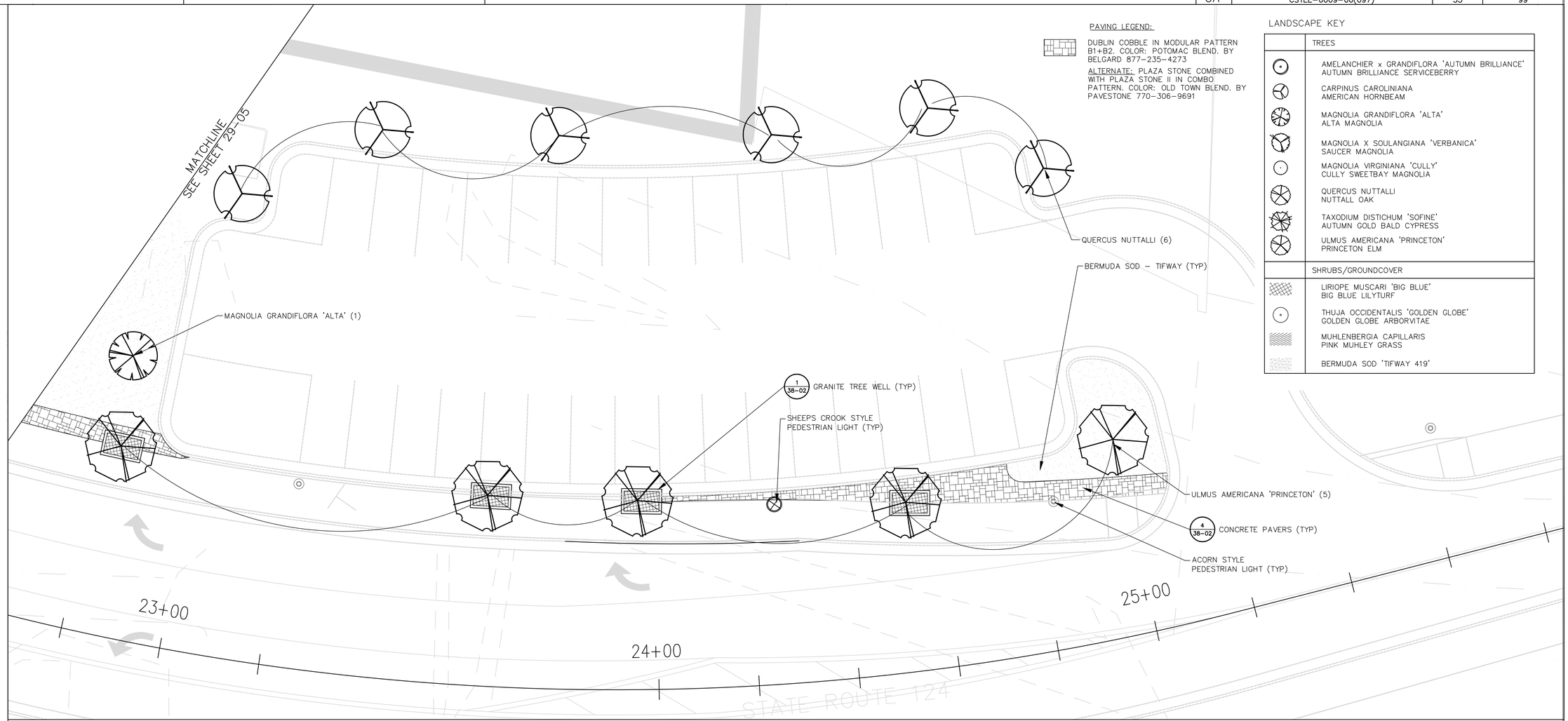
LANDSCAPE PLAN
SHEET 5 OF 6

SR 53 STREETSCAPE

DRAWING No. 29-05

GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	55	99



PAVING LEGEND:

DUBLIN COBBLE IN MODULAR PATTERN B1+B2. COLOR: POTOMAC BLEND. BY BELGARD 877-235-4273

ALTERNATE: PLAZA STONE COMBINED WITH PLAZA STONE II IN COMBO PATTERN. COLOR: OLD TOWN BLEND. BY PAVESTONE 770-306-9691

LANDSCAPE KEY

	TREES
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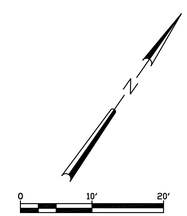
	THUJA OCCIDENTALIS 'GOLDEN GLOBE' GOLDEN GLOBE ARBORVITAE
	MUHLENBERGIA CAPILLARIS PINK MUHLEY GRASS
	BERMUDA SOD 'TIFWAY 419'

PLANTING NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF PLANT MATERIAL ACCORDING TO DRAWINGS. PLANT LIST IS PROVIDED FOR CONTRACTOR'S CONVENIENCE ONLY.
2. WARRANTY: ALL PLANTS SHALL BE WARRANTED TO REMAIN ALIVE AND HEALTHY AND IN THRIVING CONDITION FROM ONE YEAR FROM FINAL ACCEPTANCE.
3. PLANTS SHALL BE SPECIMEN QUALITY. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF.
4. HEIGHT AND SPREAD DIMENSIONS SPECIFIED REFER TO THE MAIN BODY OF THE PLANT AND NOT FROM BRANCH TIP TO TIP. IF A RANGE OF SIZE IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND NOT LESS THAN 50 PERCENT OF THE PLANTS SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED.
5. SHADE TREES SHALL HAVE STRAIGHT TRUNKS AND LEADERS. SEE SPECIFICATIONS FOR FERTILIZER AND AMENDMENT ADDITIVES.
6. OWNER'S REPRESENTATIVE SHALL BE THE SOLE JUDGE OF THE QUALITY AND ACCEPTABILITY OF MATERIALS AND PLACEMENT.
7. PLANTING PLANS INDICATE DIAGRAMMATIC LOCATIONS ONLY. SITE ADJUSTMENTS OF PLANTING DESIGN AND RELOCATION OF PLANT MATERIAL INSTALLED PRIOR TO PROJECT OWNER'S REPRESENTATIVE'S APPROVAL SHALL BE DONE WITHOUT PENALTY OR ADDITIONAL COST TO OWNER. STAKE PLANT LOCATIONS AT SITE AND OBTAIN OWNER'S REPRESENTATIVE'S APPROVAL PRIOR TO PLANT INSTALLATION.
8. PLACE PLANTS UPRIGHT AND TURNED SO THAT THE MOST ATTRACTIVE SIDE IS VIEWED.
9. BE FAMILIAR WITH UNDERGROUND UTILITIES BEFORE DIGGING. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGE OF UTILITY LINES.
10. IF DRAINAGE IS NOT SUFFICIENT NOTIFY PROJECT OWNER'S REPRESENTATIVE IN WRITING BEFORE INSTALLING THE PLANTS, OTHERWISE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR THE GUARANTEE AND LIVABILITY OF THE PLANT.
11. PROVIDE TRENCH EDGING, 7" WIDE AT SHRUB BEDS IN LAWN AREAS UNLESS OTHERWISE NOTED.
12. PROVIDE 3" THICKNESS OF PINESTRAW AT ALL PLANTS AND PLANTING BEDS.
13. MAINTENANCE WORK SHALL BE PERFORMED UNTIL DATE OF FINAL ACCEPTANCE BY OWNER AND PROJECT OWNER'S REPRESENTATIVE.
14. LEAVES: MUST BE OF MEDIUM FOLIAGE, ALL GOOD LEAVES, MAXIMUM OF 10% CHLOROSIS ALLOWED, WITH NO EXTREME SUCCULENCE.
15. ROOT SYSTEM: ROOTS MUST BE STURDILY ESTABLISHED IN BALL THAT HAS BEEN TIGHTLY WRAPPED AND SECURELY TIED WITH TWINE OR WIRE, OR PINNED.
16. CONTRACTOR'S PRICES SHALL INCLUDE ALL LABOR AND MATERIAL NECESSARY TO COMPLETE THE WORK, I.E. MULCH, PLANTING, SOIL MIX, STAKING MATERIAL, ETC.
17. WHERE WIRE BASKETS ARE USED ON TREES OR SHRUBS, CUT WIRE BACK TO BASE OF ROOTBALL AND REMOVE FROM PLANTING HOLE.
18. CONTRACTOR SHALL REPAIR/REPLACE ANY EXISTING SOD ADJACENT TO GRADING OR DEMOLITION WORK.



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

BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

JJG

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

LANDSCAPE PLAN
SHEET 6 OF 6
SR 53 STREETSCAPE

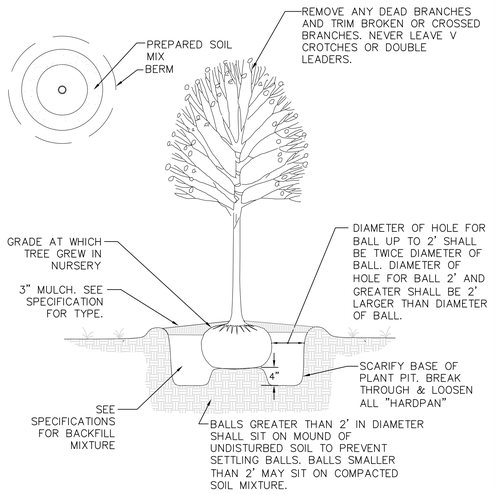
DRAWING No. 29-06

GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	56	99

NOTES:

1) SET TOP OF ROOT BALL A MINIMUM OF 2" ABOVE ADJACENT FINISH GRADE.
2) CUT BURLAP AND REMOVE FROM TOP HALF OF BALL ONLY AFTER LOCATION AND ORIENTATION OF TREE IS APPROVED BY OWNER OR OWNER'S REPRESENTATIVE.
3) CUT AND BEND BACK TOP AND SIDES OF WIRE BASKET TO A MINIMUM OF 12" BELOW THE TOP OF THE ROOTBALL ONLY AFTER LOCATION AND ORIENTATION OF TREE IS APPROVED BY OWNER OR OWNER'S REPRESENTATIVE.
4) WHEN THE TREE IS MOVED, THE ROOTBALL SHOULD ALWAYS BE SUPPORTED. TREES SHOULD NEVER BE HANDLED BY THE TRUNK.



TREE PLANTING
3" CALIPER AND ABOVE
NTS

05401

NOTES:

1) SET TOP OF ROOT BALL A MINIMUM OF 2" ABOVE ADJACENT FINISH GRADE.
2) CUT BURLAP AND REMOVE FROM TOP HALF OF BALL ONLY AFTER LOCATION AND ORIENTATION OF TREE IS APPROVED BY OWNER OR OWNER'S REPRESENTATIVE.
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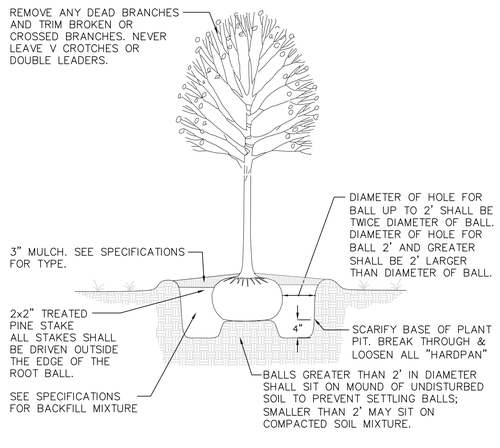
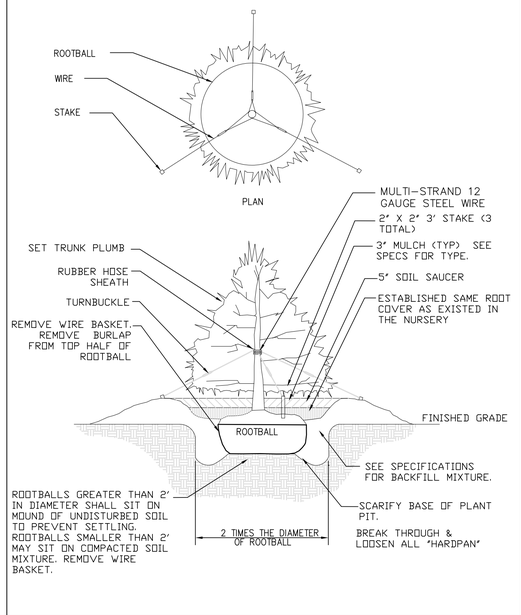


TREE PLANTING
UNDER 3" CALIPER
NTS

04901

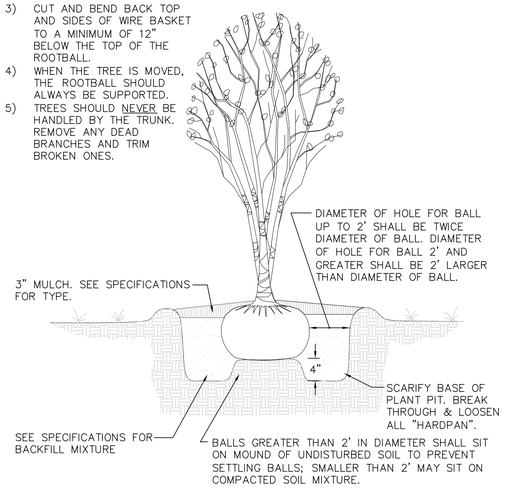


EVERGREEN TREE
PLANTING DETAIL
NTS

04998

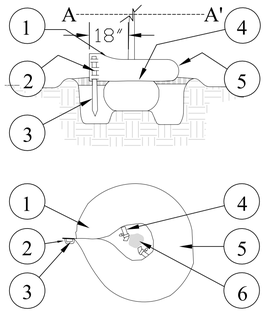
NOTES:

1) SET TOP OF ROOT BALL A MINIMUM OF 2" ABOVE ADJACENT FINISH GRADE.
2) CUT BURLAP AND REMOVE FROM TOP HALF OF BALL ONLY AFTER LOCATION AND ORIENTATION OF TREE IS APPROVED BY OWNER OR OWNER'S REPRESENTATIVE.
3) CUT AND BEND BACK TOP AND SIDES OF WIRE BASKET TO A MINIMUM OF 12" BELOW THE TOP OF THE ROOTBALL.
4) WHEN THE TREE IS MOVED, THE ROOTBALL SHOULD ALWAYS BE SUPPORTED.
5) TREES SHOULD NEVER BE HANDLED BY THE TRUNK. REMOVE ANY DEAD BRANCHES AND TRIM BROKEN ONES.



MULTI-STEM
TREE PLANTING DETAIL
NTS

04904



DETAIL NOTES:

1. FILL/VENT HOLES (TYP. BOTH ENDS)
2. STAKE HOLDING SLOTS (TYP. BOTH ENDS)
3. 30" LG. SURVEYOR STAKE SUPPLIED WITH OOZE TUBE). NOTE: INSTALL AT THE HIGHEST POINT OF ELEVATION.
4. DRIP EMITTER PLACEMENT (SEE TOP VIEW-SECTION "AA")
5. OOZE TUBE (30 GALLON CAPACITY FIRST FILL 25 GALLONS THEREAFTER).
6. TREE CROSS SECTION

NUMBER OF EMITTERS TO BE INSTALLED PER TREE: __2__ (TYPICAL = 2)

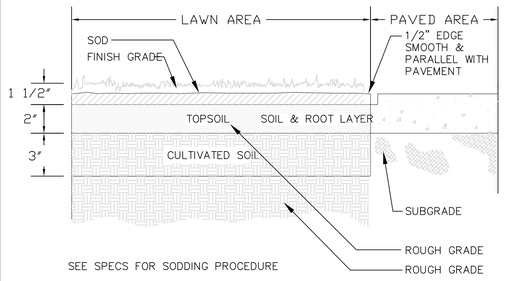
NOTE: TO LOCATE AN OOZE TUBE DISTRIBUTOR, CONTACT:

PQ PARTNERS, LLC (770) 926-1535

OOZE
TUBE DETAIL
NTS

04907

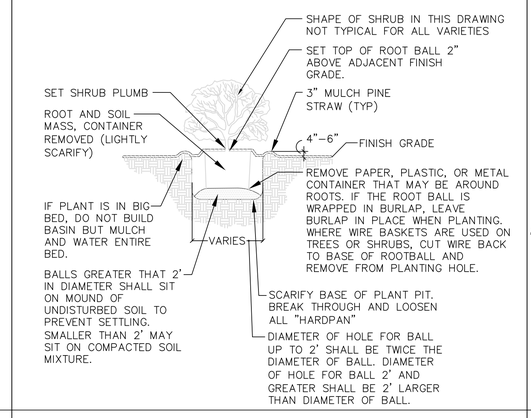
NOTE:
INSTALL SOD SO THAT TOP OF SOIL & ROOT LAYER IS LEVEL WITH TOP OF PAVEMENT.



SEE SPECS FOR SODDING PROCEDURE

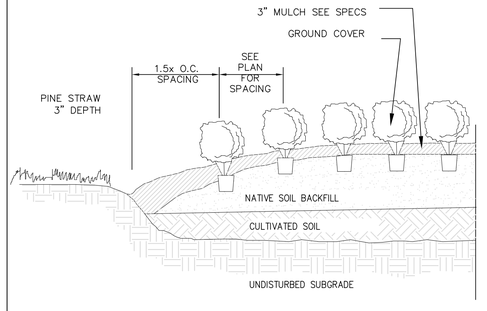
SODDING A
DETAIL
NTS

04950



CONTAINER SHRUB
PLANTING
NTS

04951



GROUND COVER
INSTALLATION DETAIL
NTS.

04999

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

BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

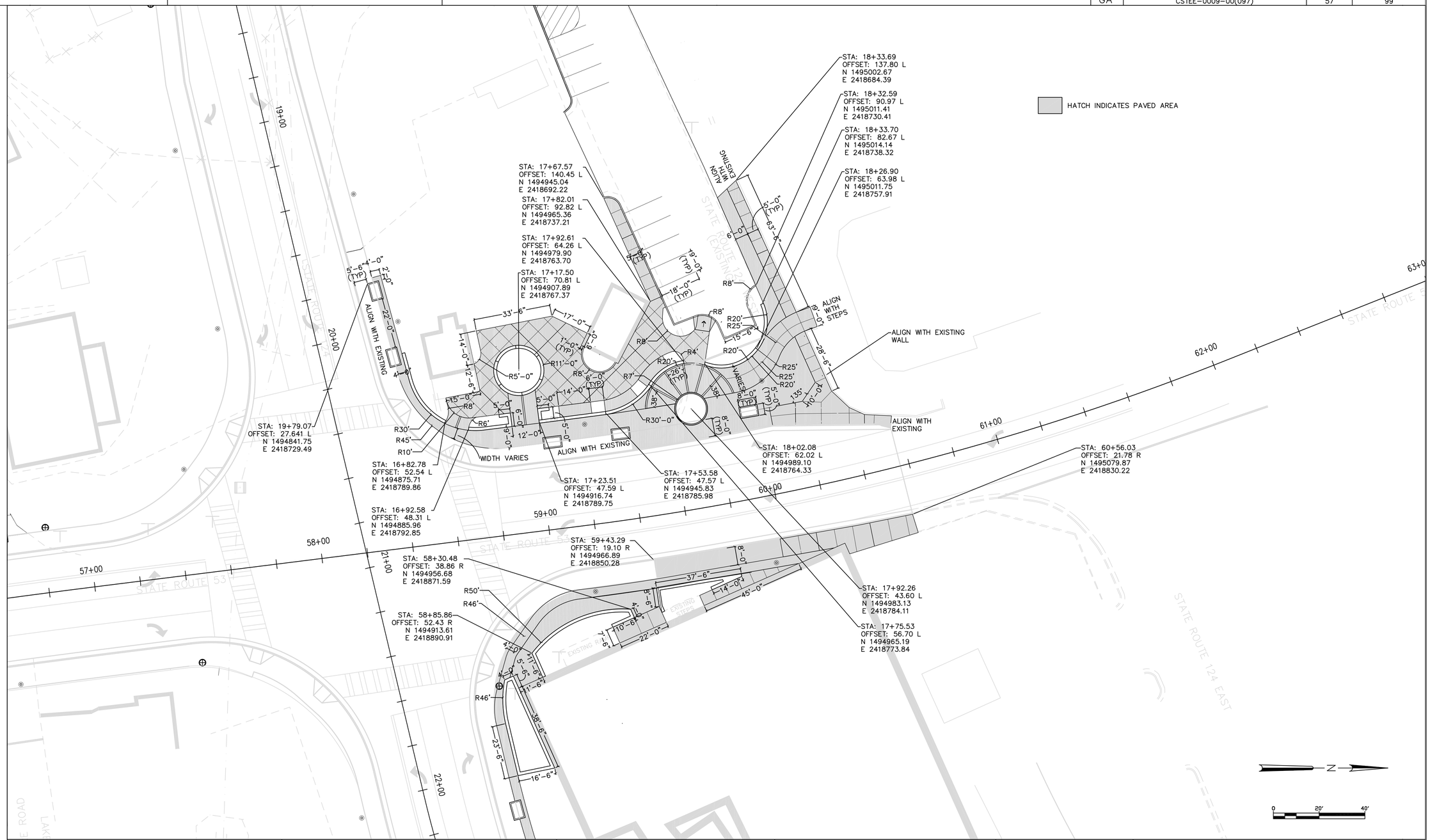
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

LANDSCAPE DETAILS
SR 53 STREETSCAPE

DRAWING No. 29-07

GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	57	99



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

BEGIN LIMIT OF ACCESS .....BLA
END LIMIT OF ACCESS .....ELA
LIMIT OF ACCESS
REQ'D R/W AND LIMIT OF ACCESS

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

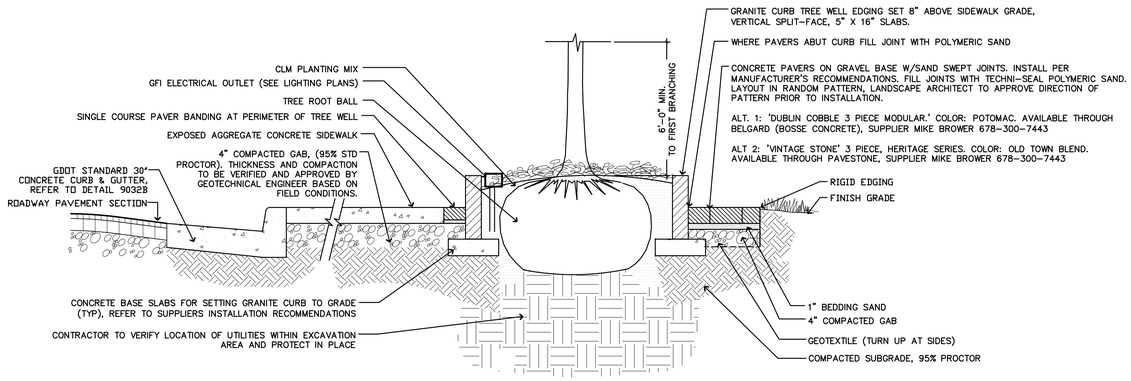
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

SPECIAL DETAILS
PLAZA AREA LAYOUT ENLARGEMENT
SR 53 STREETSCAPE

DRAWING No. 38-01

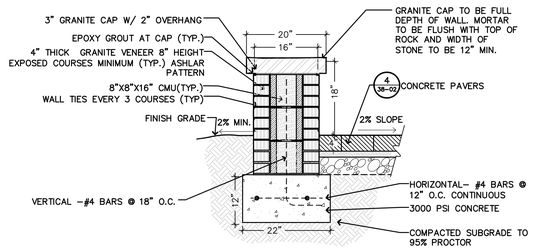
GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	58	99



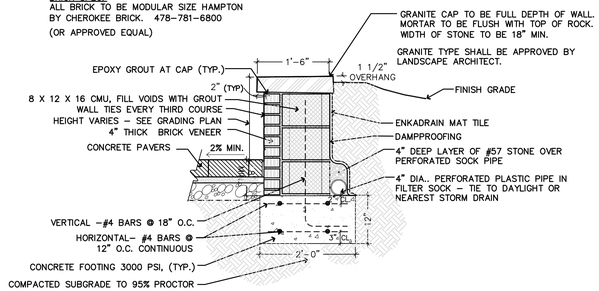
SECTION

1 / 38-02 SIDEWALK AND GRANITE TREE WELL AND PAVER DETAILS
N.T.S.

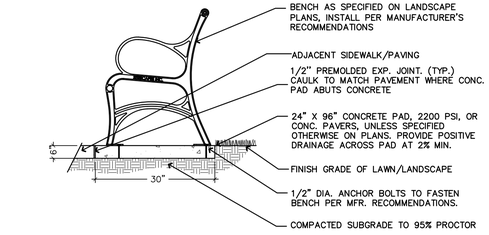


6 / 38-02 18" FREESTANDING BRICK VENEER SEATWALL WITH GRANITE CAP
N.T.S.

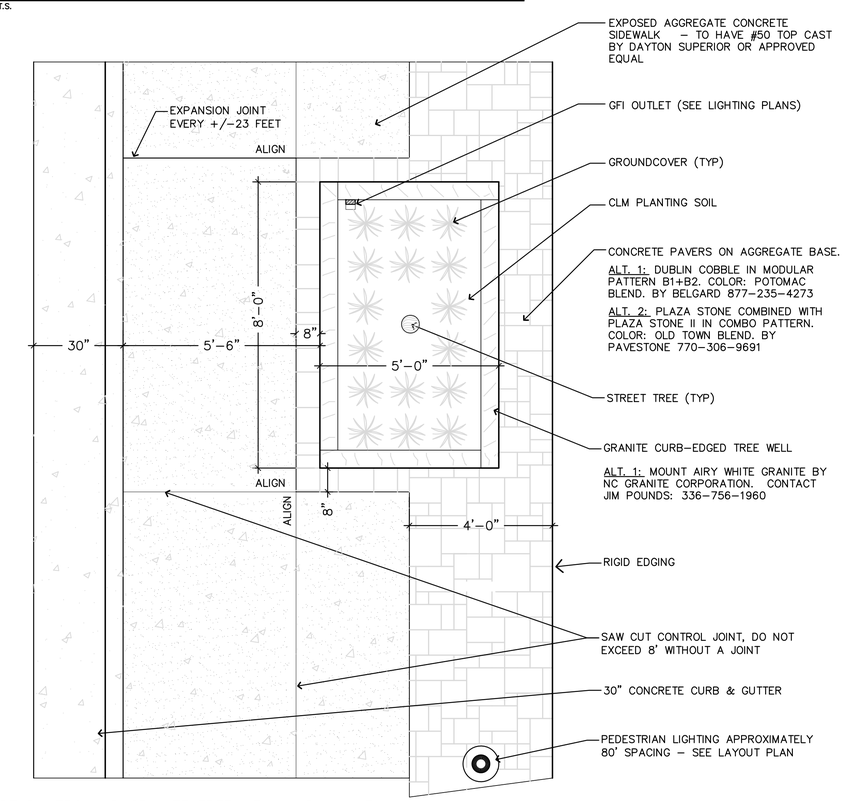
BRICK SPEC:
ALL BRICK TO BE MODULAR SIZE HAMPTON BY CHEROKEE BRICK. 478-781-6800
(OR APPROVED EQUAL)



2 / 38-02 BRICK VENEER RETAINING WALL WITH GRANITE CAP
N.T.S.



3 / 38-02 BENCH DETAILS
N.T.S.



7 / 38-02 STREETSCAPE PAVERS AND GRANITE TREE WELL - PLAN VIEW
N.T.S.

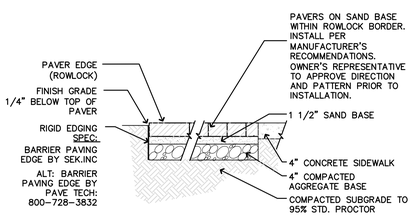
CONCRETE PAVER NOTES:

1. PROVIDE COMPACTED GAB, THICKNESS AND COMPACTION TO BE DETERMINED, VERIFIED AND APPROVED BY GEOTECHNICAL ENGINEER BASED ON FIELD CONDITIONS.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. LAYOUT AND PAVER SPEC AS NOTED ON PLANS. OWNER TO APPROVE DIRECTION OF PATTERN PRIOR TO INSTALLATION.
3. ALL PAVERS TO BE SEALED WITH INVISIBLE "IN PROTECTOR" BY TECHNI-SEAL OR APPROVED EQUAL. APPLY PER MANUFACTURER'S RECOMMENDATIONS.

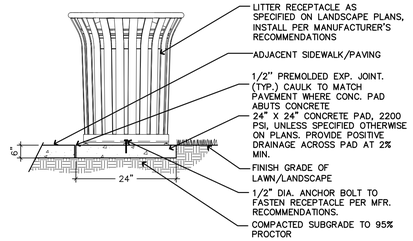
SPEC:
"DUBLIN COBBLE" LAYOUT IN RANDOM PATTERN WITH RUNNING BOND BORDER. COLOR: ARDENNES GREY. AVAILABLE THROUGH BELGARD

ALTERNATE: "PLAZA STONE COMBO I"-PLAZA I, PLAZA II HERITAGE SERIES. LAYOUT IN RANDOM PATTERN WITH RUNNING BOND BORDER. COLOR: OLD TOWN BLEND. AVAILABLE THROUGH PAVESTONE

(OR APPROVED EQUAL)



4 / 38-02 CONCRETE PAVERS
N.T.S.



5 / 38-02 TRASH RECEPTACLE
N.T.S.

PROPERTY AND EXISTING R/W LINE	PL	BEGIN LIMIT OF ACCESS .....BLA
REQUIRED R/W LINE		END LIMIT OF ACCESS .....ELA
CONSTRUCTION LIMITS	C F	LIMIT OF ACCESS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES		
EASEMENT FOR CONSTR OF DRIVES		

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

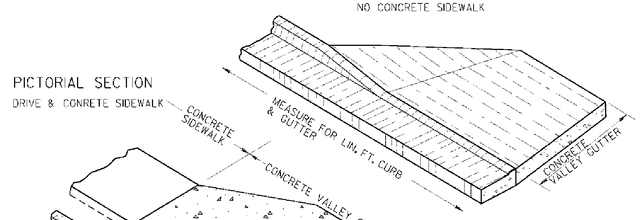
SPECIAL DETAILS
STREETSCAPE DETAILS

SR 53 STREETSCAPE

DRAWING No. 38-02

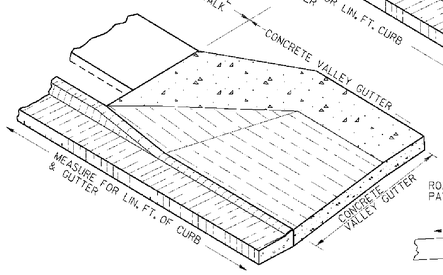
PICTORIAL SECTION

NO CONCRETE SIDEWALK

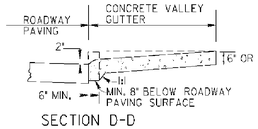


PICTORIAL SECTION

DRIVE & CONRETE SIDEWALK

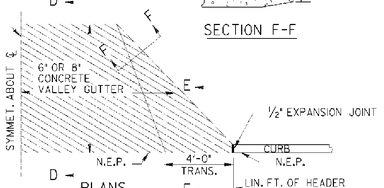


SECTION E-E



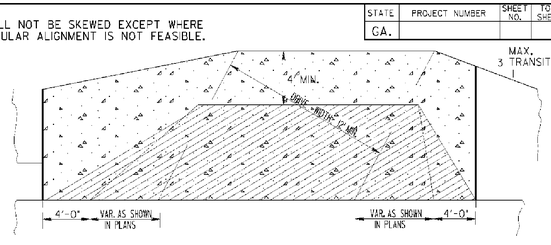
SECTION D-D

NOTE:
DETAILS NOT SHOWN FOR MODIFIED DRIVES WILL BE SIMILAR TO THAT SHOWN FOR STANDARD DRIVEWAYS AT BOTTOM.



PLANS

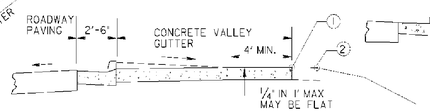
NOTE:
DRIVES WILL NOT BE SKEWED EXCEPT WHERE PERPENDICULAR ALIGNMENT IS NOT FEASIBLE.



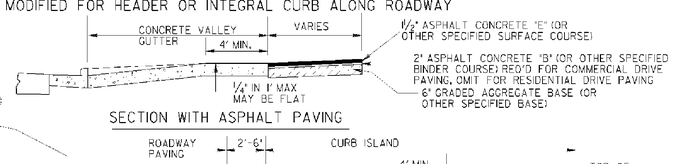
SECTION F-F

DRIVE ENTRANCE MODIFIED FOR SKEW

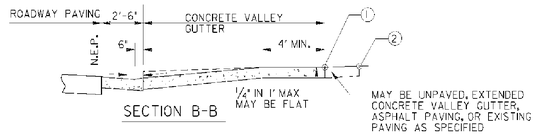
DRIVE MODIFIED FOR HEADER OR INTEGRAL CURB ALONG ROADWAY



(SPECIAL CASE FOR SECTION B-B OR SECTION C-C; WHERE THE SHOULDER OR SIDEWALK IS SLOPED AWAY FROM THE ROAD)

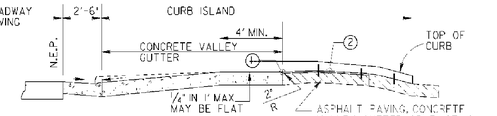


SECTION WITH ASPHALT PAVING

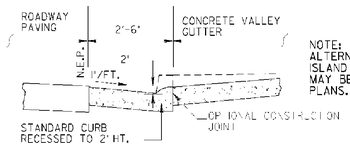


SECTION B-B

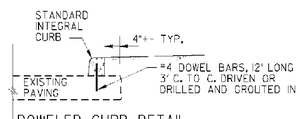
MAY BE UNPAVED, EXTENDED CONCRETE VALLEY GUTTER, ASPHALT PAVING, OR EXISTING PAVING AS SPECIFIED



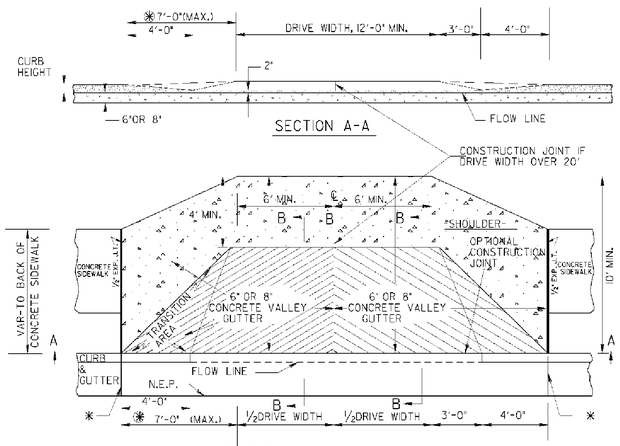
SECTION C-C



NOTE:
ALTERNATES TO THE CURB ISLAND DESIGN SHOWN HERE MAY BE SPECIFIED IN THE PLANS.



DOWELED CURB DETAIL



SECTION A-A

✱ CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED BACK OF THE CURB.

HALF SECTION

SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.

PLAN

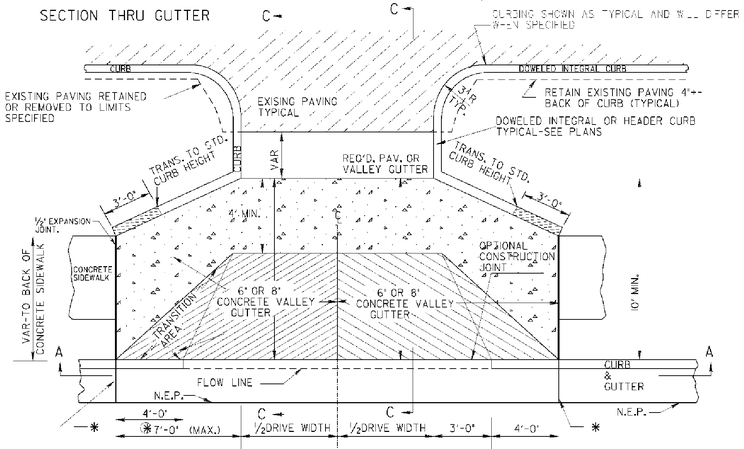
℄

HALF SECTION

PLAN

RESIDENTIAL, COMMERCIAL OR NON-COMMERCIAL DRIVE

SECTION THRU GUTTER



HALF SECTION

SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.

PLAN

℄

HALF SECTION

PLAN

(SHOWN ADJACENT TO EXISTING PAVED PARKING AREA)

DRIVEWAY WITH CURB ISLAND

✱ CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED BACK OF CURB.

✱ 7'-0" OR DISTANCE EQUAL TO THAT FROM BACK OF CURB TO BACK OF SIDEWALK, WHICHEVER IS LESSER

GENERAL NOTES:

1. QUANTITIES WILL BE MEASURED AS FOLLOWS:
   (A) CONCRETE CURB & GUTTER ALONG ROADWAY---
   LIN. FT. OF CURB & GUTTER WILL BE MEASURED FOR PAYMENT CONTINUOUS THRU THE DRIVE ENTRANCES. PAYMENT FOR CURB & GUTTER WILL INCLUDE DAPPING DOWN THE TOP PORTION OF THE CURB. SQ. YDS. OF CONCRETE VALLEY GUTTER WILL BE MEASURED FOR PAYMENT TO THE BACK OF THE CURB LINE.
   (B) HEADER (OR INTEGRAL) CURB ALONG ROADWAY---
   LIN. FT. OF CURB WILL BE MEASURED FOR PAYMENT TO THE BEGINNING OF DRIVE WAY. SQ. YDS. OF CONCRETE VALLEY GUTTER WILL BE MEASURED FOR PAYMENT TO THE EDGE OF THE ROADWAY PAVING.
2. N.E.P. IS DEFINED AS THE POINT WHERE THE ROADWAY PAVING MEETS THE CURB & GUTTER, OR HEADER CURB, OR FACE OF THE INTEGRAL CURB.
3. DRIVES RECONSTRUCTED SHALL BE REPLACED IN KIND, I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND AGGREGATE SURFACE COARSE FOR EARTH.
4. SEE STANDARD 9032-B FOR DETAILS OF CONCRETE CURB & GUTTER, HEADER CURBS AND DOWELED INTEGRAL CURBS.
5. WIDTHS OF COMMERCIAL DRIVEWAYS WILL COMPLY WITH CURRENT "RULES AND REGULATIONS FOR DRIVEWAY AND ENCROACHMENT CONTROL". WIDTHS OF RESIDENTIAL NON-COMMERCIAL DRIVEWAYS WILL BE AS SPECIFIED IN THE PLANS.
6. THE SLOPE OF THE "TRANSITION AREA" OF THE CONCRETE VALLEY GUTTER SHALL NOT BE STEEPER THAN 8.33% (12H) WHERE SIDEWALKS ARE LOCATED.
7. MAXIMUM DRIVEWAY GRADES SHOWN BELOW ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 8% UNLESS SPECIFIED OTHERWISE.

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following: "Rounded-Off" conversion factors: 1"=25mm, 4"=100mm, and 12" or 1'=300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

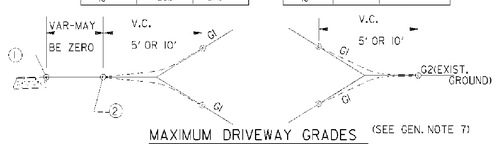
① IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB. SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

② IS BEGINNING OF DRIVEWAY TIE-IN.

NOTE: ① AND ② MAY COINCIDE

V.C.	MAXIMUM G	
	CUT	FILL
5'	27%	16.67%
10'	28%	27%

V.C.	G1-G2 (MAX. ALGEBRAIC GRADE CHANGE)	
	SAG	CREST
5'	20%	25%
10'	25%	36%



MAXIMUM DRIVEWAY GRADES (SEE GEN. NOTE 7)

This Detail Replaces Ga Standard 6050

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DATE	REVISION	BY
4-11-02	REVISED	
4-3-02	REVISED	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS

NO SCALE

MARCH 12, 2002

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

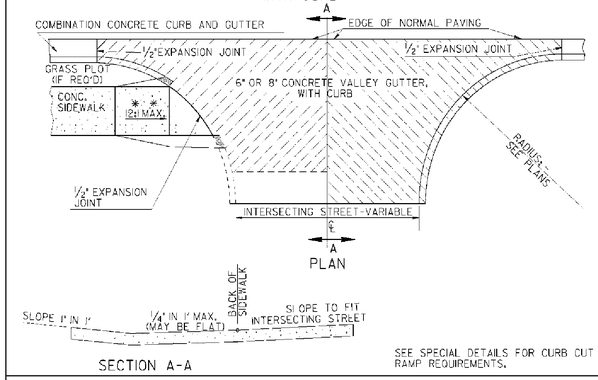
CONSTRUCTION DETAILS

SR 53 STREETSCAPE

DRAWING No. 40-01

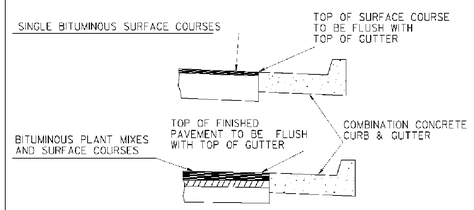
11/3/2010 brad.gray	3:25:43 PM	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097cd02.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
				GA	CSTEE-0009-00(097)	60	99

DETAIL OF CONCRETE VALLEY GUTTER WITH CURB

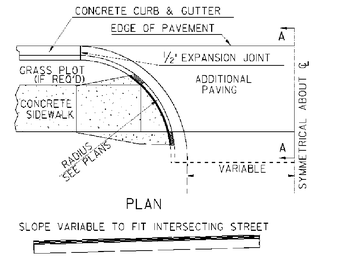


SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.

DETAIL OF PLACING PAVEMENT ADJACENT TO GUTTER



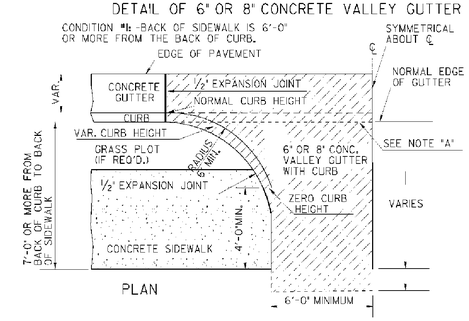
DETAIL OF ADDITIONAL PAVING AT STREET INTERSECTION



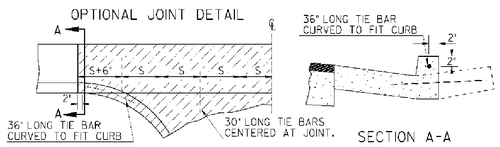
NOTE:
ADDITIONAL PAVING TO EXTEND TO END OF RETURN WHEN NO CONCRETE SIDEWALK IS SET UP.

** SEE SPECIAL DETAILS FOR CURB CUT RAMP REQUIREMENTS.

DETAIL OF 6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE WITHOUT CURB



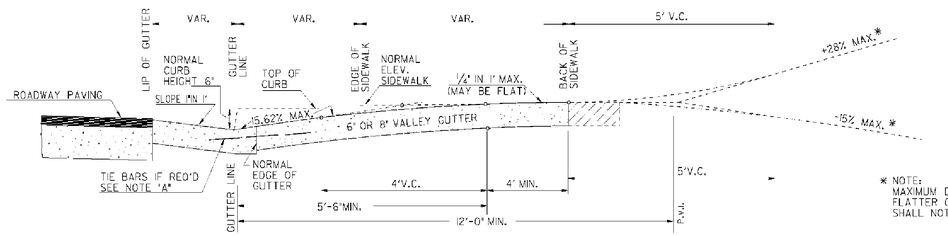
NOTE: "A"
CONSTRUCTION JOINT OPTIONAL: WHEN IMPLEMENTED #4 TIE BARS WILL BE REQUIRED AS SHOWN BELOW TO BE INCLUDED IN UNIT PRICE FOR VALLEY GUTTER. IF CURB IS POURED THROUGH VALLEY GUTTER, THE TOP PORTION WILL BE REMOVED BEFORE SETTING TO MATCH GRADE OF VALLEY GUTTER.



FOR 6" VALLEY GUTTER S(MAX)=24"
FOR 8" VALLEY GUTTER S(MAX)=16"

CONDITION "B"-BACK OF SIDEWALK IS 7'-0" OR MORE FROM BACK OF CURB.

ZERO CURB HT. TO BE A MINIMUM OF 3'-2" FROM GUTTER LINE. IF CURB TRANSITION EXTENDS PAST EDGE OF SIDEWALK, THE TOP OF THE VARIABLE HEIGHT CURB IS TO REMAIN FLUSH WITH THE TOP OF THE SIDEWALK THROUGHTOUT TRANSITION. ZERO CURB HEIGHT WILL BE A MINMUM OF 4'-0" FROM BACK OF SIDEWALK.



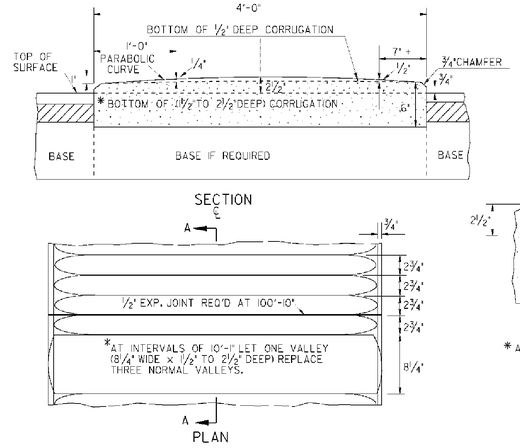
SEE SPECIAL DETAILS FOR DETAILS OF CONCRETE SIDEWALK.

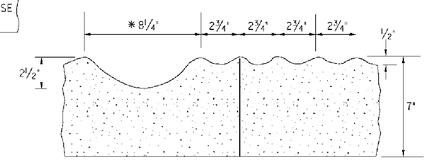
PERCENTAGE OF ASCENDING GRADE MAY BE INCREASED AT A DISTANCE OF 23' FROM THE GUTTER LINE. *

PERCENTAGE DESCENDING GRADE MAY BE INCREASED AT A DISTANCE 18' FROM THE GUTTER LINE. *

* NOTE:
MAXIMUM DRIVEWAY GRADES SHOWN ABOVE ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

DETAIL OF 4' CORRUGATED CONCRETE MEDIAN





SECTION A-A AT CL OF MEDIAN

* APPLIES ONLY TO SUPERELEVATED CURVES, INCLUDING TRANSITIONS.

This Detail Replaces Ga Standard 9031J

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1'-300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

REVISED	2-21-03
REVISED	4-11-02
EY	4-3-02
REVISION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

CONCRETE VALLEY GUTTER AT STREET INTERSECTION
6" OR 8" CONCRETE VALLEY GUTTER AT DRIVE
PLACING PAVEMENT ADJACENT TO GUTTER
ADDITIONAL PAVING AT STREET INTERSECTION

4' CORRUGATED CONCRETE MEDIAN

NO SCALE — MARCH 12, 2002 — A2

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

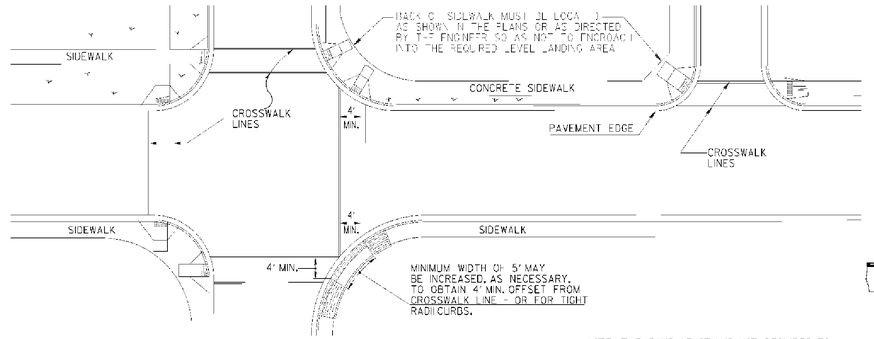
NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS
SR 53 STREETSCAPE

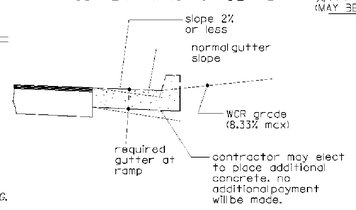
DRAWING No. 40-02

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW



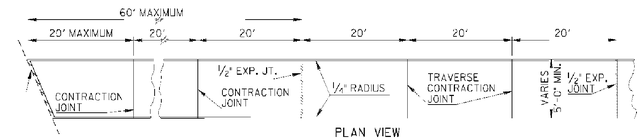
NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

GUTTER TRANSITION DETAIL

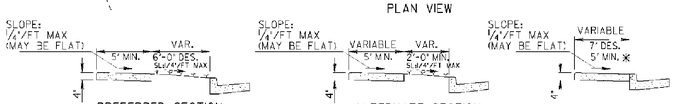


CONCRETE SIDEWALK DETAILS

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN VIEW



PREFERRED SECTION WITH 6' GRASS STRIP
* 16' SHOULDER RECOMMENDED WITH THIS INSTALLATION

ALTERNATE SECTION WITH GRASS STRIP

ALTERNATE SECTION WITHOUT GRASS STRIP
*5' MIN WIDTH WITH NO OBSTRUCTIONS (MAILBOXS, SIGNS,ETC)
7' PREFERRED WIDTH WITH A 2' AREA OF CONTRASTING COLOR & TEXTURE ADJACENT TO THE CURB. (COST OF TEXTURE, COLORING & HOLES REQUIRED FOR MAILBOX AND SIGN POST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK)

NOTES FOR CONCRETE SIDEWALKS

A. CONCRETE TO BE PLACED 4" THICK AND FINISHED WITH TAMPS, WOOD FLOATS AND STIFF-BRISTLE BROOMS.

B. TRANSVERSE CONTRACTION JOINTS SHALL BE PLACED AT 20 FT. INTERVALS. ALL EDGES TO BE ROUNDED TO 1/4" RADIUS.

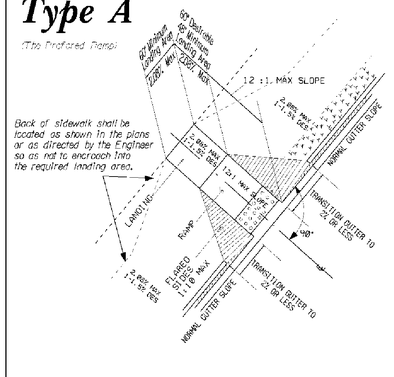
C. 1/2" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALKS TIE INTO A STRUCTURE OR TERMINATE AT CURB, RAMPS OR DRIVEWAYS AND AT 60' INTERVALS.

NOTES FOR CURB CUT RAMPS:

1. CURB CUT RAMPS WILL BE LOCATED AS FOLLOWS UNLESS PLANS OR CONTRACT SPECIFY OTHERWISE.
   a) AT ALL PEDESTRIAN CROSSWALKS WHERE CURB IS CONSTRUCTED OR REPLACED.
   b) WHERE THE SIDEWALK, CONCRETE OR UNPAVED, IS INTERRUPTED BY THE CURB AT TURNOUTS OR AT INTERSECTIONS.
   c) AT OTHER LOCATIONS SUCH AS HOSPITALS, NURSING HOMES, REST AREAS, ETC., WHERE THE CURB WOULD OTHERWISE BE AN OBSTRUCTION TO THE PHYSICALLY DISABLED.
2. RAMPS WILL BE CONSTRUCTED FROM CONCRETE. SPECIFICATIONS FOR RAMP WILL BE THE SAME AS FOR CONCRETE SIDEWALK. RAMPS SHALL HAVE EITHER A ROUGH OR A TEXTURED FINISH.
3. DROP INLETS ARE NOT TO BE LOCATED DIRECTLY IN FRONT OF RAMPS. CATCH BASINS SHOULD BE LOCATED AT LEAST 10 FT. FROM RAMPS WHEN FEASIBLE.
4. WHERE RAMPS ARE LOCATED IN RADII, THE DIMENSIONS SHOWN FOR RAMP WIDTHS AND TAPERS ARE MEASURED PERPENDICULAR TO THE RAMP AND NOT ALONG THE CURVE.
5. WHERE UTILITY STRUCTURES CONFLICT, WHERE SIDEWALK GEOMETRY VARIES, AT SKEWED INTERSECTIONS, OR IN OTHER SPECIAL CASES, THE RAMP DESIGNS MAY BE MODIFIED BY THE DESIGNER OR ENGINEER, PROVIDED THAT THE WIDTH REMAINS A MINIMUM OF 48 INCHES, AND NO SLOPE ON THE ACCESSIBLE PART OF THE RAMP IS STEEPER THAN 12:1.
6. LIN. FT. OF CURB AND GUTTER WILL INCLUDE THE TRANSITIONED CURB IN FRONT OF RAMPS. SQ. YDS. OF CONCRETE SIDEWALK AND CONCRETE MEDIAN PAVING WILL INCLUDE RAMPS. NO ADDITIONAL PAYMENT WILL BE MADE FOR CURB RAMPS.
   NO ADDITIONAL PAYMENT WILL BE MADE FOR SAWING AND REMOVING EXISTING SIDEWALK OR CURB WHERE NECESSARY FOR RAMP CONSTRUCTION
7. WHEN A CURB RAMP IS PLACED ON EXISTING PAVEMENT, THE PAVEMENT SHALL BE REMOVED TO PROVIDE A MINIMUM THICKNESS OF 3 INCHES OF CONCRETE AT ALL LOCATIONS. NO SEPARATE PAYMENT WILL BE MADE FOR THE REMOVAL OF THE PAVEMENT.

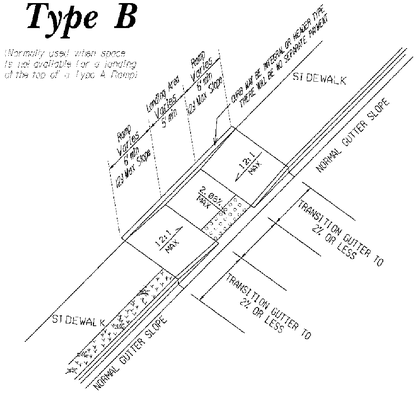
Type A

(The Preferred Ramp)



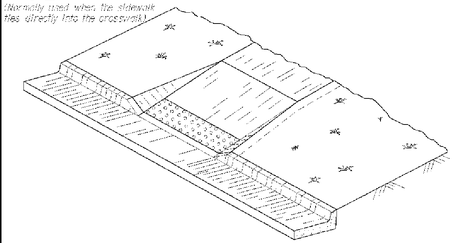
Type B

Normally used when space is not available for a landing at the top of a Type A Ramp.



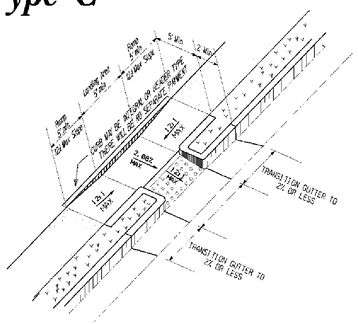
Type D

(Normally used when the sidewalk ties directly into the crosswalk)



IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 5 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.

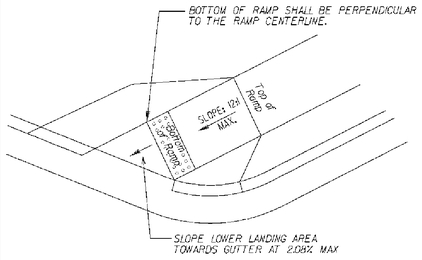
Type C

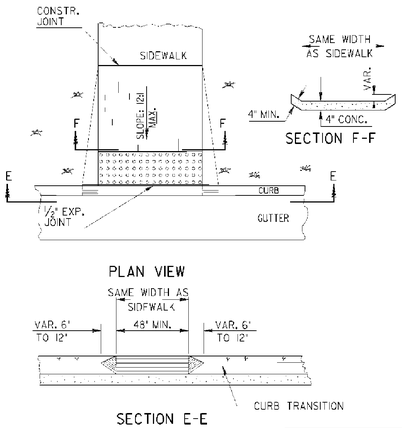


Skewed Ramp Details

(Applies to Type A & Type D Ramps Only)

WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2.08% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.





This Detail Replaces Ga Standard 9031W

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded Off" conversion factors: 1"=25mm, 4"=100mm, and 12" or 1'=300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

REVISION	DATE
REV. TRUNCATED DOMES	5-10-06
REVISED	2-24-03
REVISED	7-29-02
REVISED	5-23-02
REVISED	5-10-02
REVISED	4-29-02
REVISED	4-4-02
REVISED	4-4-02
REVISED	3-28-02
GLO	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

NO SCALE — MARCH 12, 2002

A3

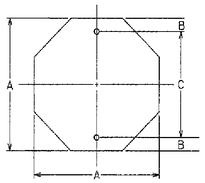
NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS
SR 53 STREETSCAPE

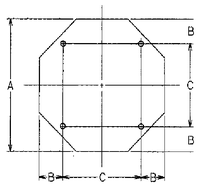
DRAWING No. 40-03

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

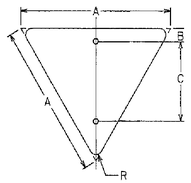


OCTAGON

A	B	C
24	3	18
30	3	24
36	3	30

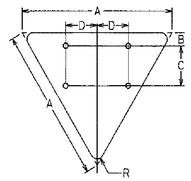


A	B	C
48	9	30

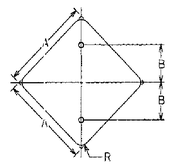


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

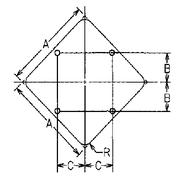


A	B	C	D	R
60	3	18	15	3



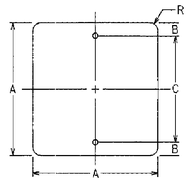
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4



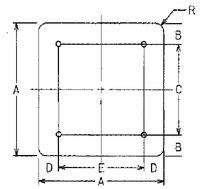
A	B	C	R
36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

*FOR TWO POST ERECTION

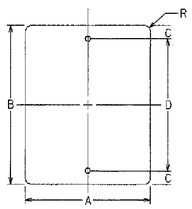


SQUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

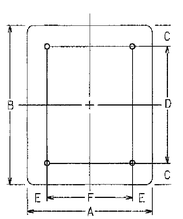


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

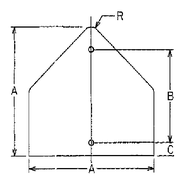


VERTICAL RECTANGLE

A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

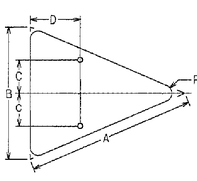


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



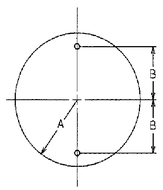
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



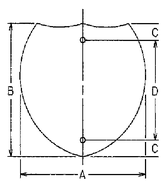
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



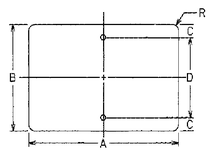
CIRCLE

A	B
15	12
18	15



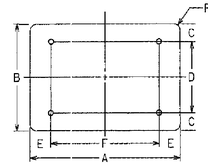
INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



HORIZONTAL RECTANGLE

A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 7/8



A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

DATE	REVISIONS	GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF TRAFFIC SAFETY & DESIGN
		DETAILS OF SIGN PLATES
		NO SCALE JANUARY 2000

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

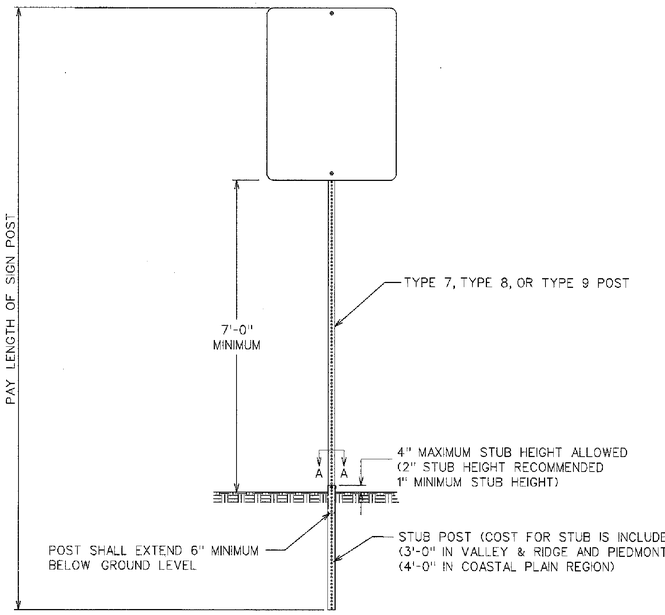
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

CONSTRUCTION DETAILS

SR 53 STREETSCAPE

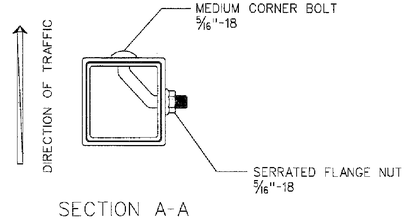
DRAWING No. 40-04

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	2¼" x 2¼"
TYPE 8	2¾" x 2¾"
TYPE 9	2½" x 2½"



SECTION A-A

SIGN POST SELECTION CHART

70 MPH Wind Load Chart + 15% Gust Factor

	SLIP BASE NOT REQUIRED				GROUND MOUNTED BREAKAWAY SIGN SUPPORT REQUIRED				
	TYPE 7 2"14 ga.		TYPE 9 2-1/4"14 ga	TYPE 8 2-1/2"12 ga.	TYPE 8 2-1/2"12 ga.		TYPE 8 w/TYPE 9 Insert* 2-1/2"12 ga. w/2-1/4"14 ga.		
Sign Centroid	1 Post	2 Post	1 Post	1 Post	2 Post	3 Post	1 Post	2 Post	3 Post
	SQUARE FOOTAGE				SQUARE FOOTAGE				
6'	13.50	27.00	19.25	30.00	60.00	90.00	49.25	98.50	147.75
7'	11.60	23.20	16.50	25.75	51.50	77.25	42.25	84.50	126.75
8'	10.15	20.30	14.45	22.55	45.10	67.65	37.00	74.00	111.00
9'	9.00	18.00	12.85	20.00	40.00	60.00	32.85	65.70	98.55
10'	8.10	16.20	11.55	18.00	36.00	54.00	29.55	59.10	88.65
11'	7.40	14.80	10.50	16.40	32.80	49.20	26.90	53.80	80.70
12'	6.80	13.60	9.65	15.00	30.00	45.00	24.65	49.30	73.95
13'	6.25	12.50	8.90	13.85	27.70	41.55	22.75	45.50	68.25
14'	5.80	11.60	8.25	12.90	25.80	38.70	21.15	42.30	63.45
15'	5.00	10.00	6.45	10.10	20.20	30.30	16.55	33.10	49.65
16'	4.70	9.40	6.05	9.45	18.90	28.35	15.50	31.00	46.50
17'	4.40	8.80	5.70	8.90	17.80	26.70	14.60	29.20	43.80
18'	4.15	8.30	5.40	8.40	16.80	25.20	13.80	27.60	41.40
19'	3.95	7.90	5.10	7.95	15.90	23.85	13.05	26.10	39.15
20'	3.75	7.50	4.85	7.55	15.10	22.65	12.40	24.80	37.20

SIGN CENTROID IS DISTANCE FROM GROUND LEVEL TO BOTTOM OF SIGN *PLUS* HALF THE HEIGHT OF SIGN.
EXAMPLE: 24"X 48" SIGN THAT IS 7 FEET FROM GROUND TO BOTTOM OF SIGN. ADD HALF OF 48" (24" OR 2 FT) *PLUS* 7 FT. = 9' CENTROID.

SIGN PLATE SHALL NOT EXCEED 48" IN WIDTH ON A SINGLE POST.

* TYPE 9 INSERT SHALL BE A CONTINOUS POST INSERTED INTO THE TYPE 8 POST WHERE REQUIRED. THE INSERT POST SHALL EXTEND FROM THE BOTTOM OF THE SLIP BASE UPPER ASSEMBLY TO 4" BELOW THE BOTTOM OF THE SIGN. THE INSERT POST SHALL NOT EXTEND ABOVE THE BOTTOM OF THE SIGN. PAYMENT FOR THE INSERT POST SHALL BE PER LINEAR FOOT OF TYPE 9 POST.

GROUND MOUNTED BREAKAWAY SIGN SUPPORT WILL BE MEASURED AND PAID FOR SEPARATELY. THE COST FOR THIS WORK SHALL INCLUDE THE UPPER AND LOWER ASSEMBLY, STUB POST, CLASS "A" CONCRETE, ALL HARDWARE NECESSARY TO COMPLETE THE INSTALLATION, AND BE INCLUDED IN THE BID PRICE SUBMITTED FOR ITEM 636-3010.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

TYPE 7, 8, AND 9
SQUARE TUBE POST
INSTALLATION DETAIL

NO SCALE JULY 2002

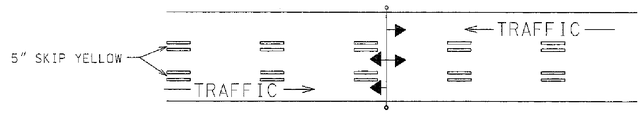
NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS
SR 53 STREETSCAPE

DRAWING No. 40-05

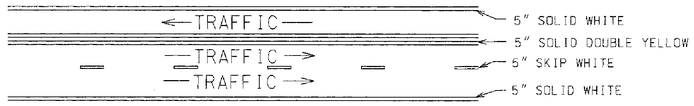
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



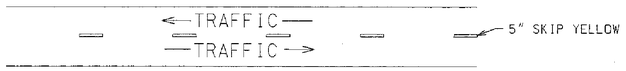
REVERSIBLE LANE SIGN OR SIGNAL SYSTEM REQUIRED

TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE

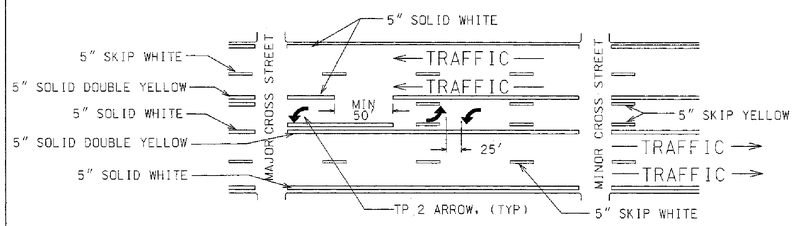
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS



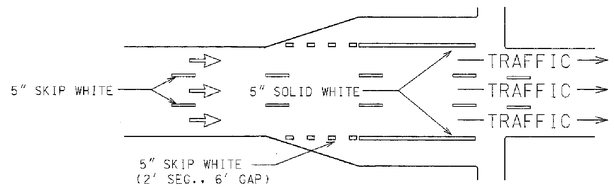
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS



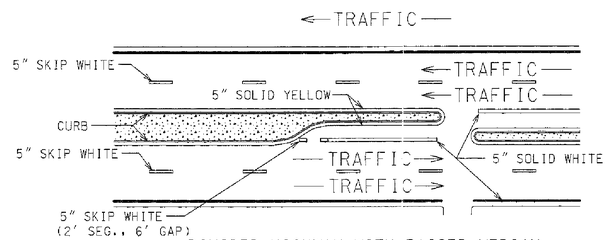
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



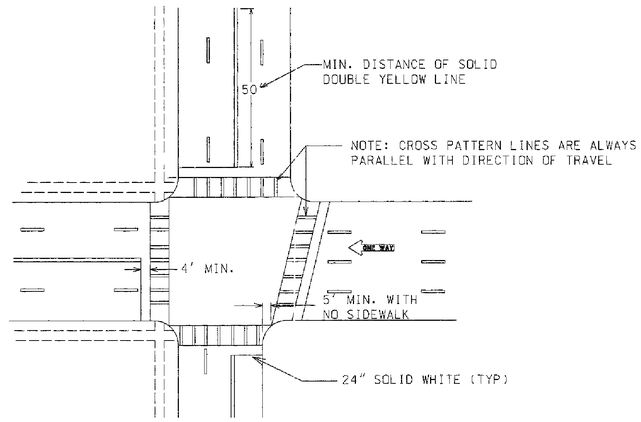
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



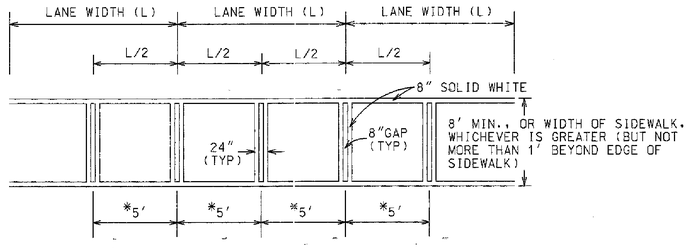
ONE-WAY TRAFFIC WITH ADDED TURN LANES



DIVIDED HIGHWAY WITH RAISED MEDIAN



TYPICAL LOCATION OF CROSSWALKS AND STOP BARS



*USE WHERE THE LANE WIDTH EXCEEDS 12' OR WHERE LANE LINES HAVE BEEN OMITTED

CROSSWALK DETAIL

GENERAL NOTES:

1. SPACING BETWEEEN DOUBLE LINES SHALL BE EQUAL TO THE LINE WIDTH.
2. EDGE LINES SHALL BE PLACED A MINIMUM OF 4 INCHES FROM THE NORMAL EDGE OF PAVEMENT.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY

NO SCALE JANUARY 2000

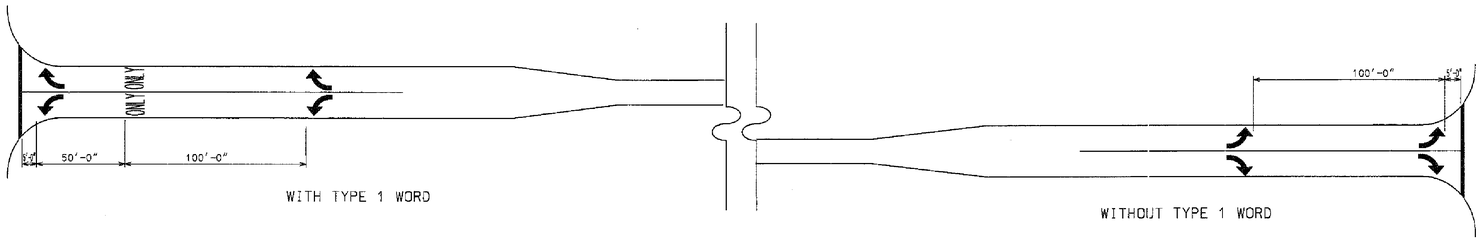
NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS
SR 53 STREETSCAPE
DRAWING No. 40-06

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

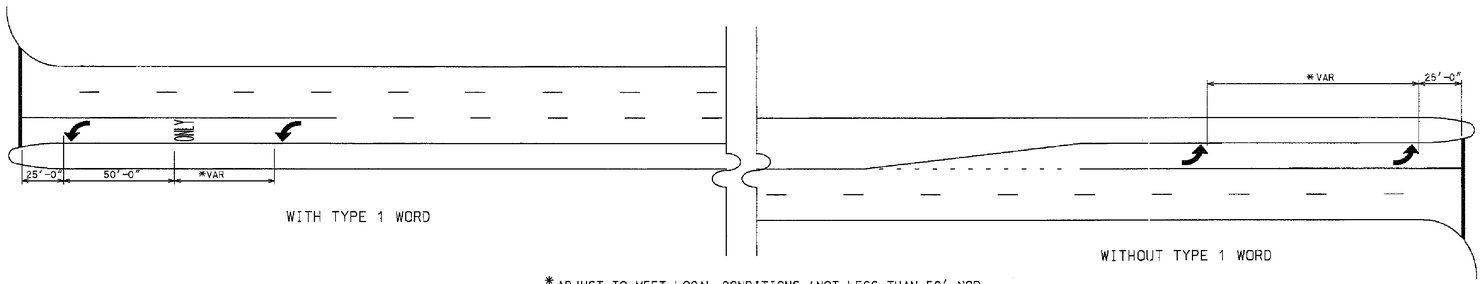
EXIT RAMPS



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

SHORT TURN LANES

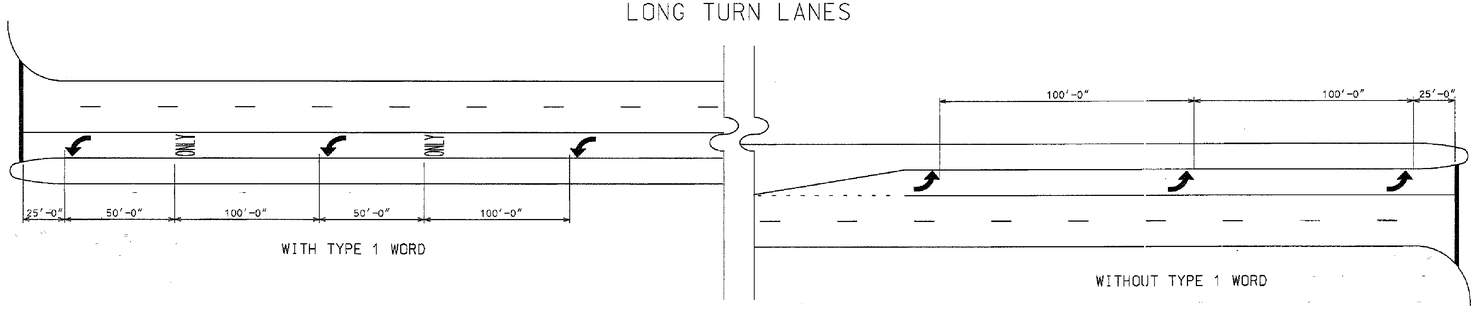


WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

*ADJUST TO MEET LOCAL CONDITIONS (NOT LESS THAN 50' NOR MORE THAN 100')

LONG TURN LANES



WITH TYPE 1 WORD

WITHOUT TYPE 1 WORD

GENERAL NOTES:

1. SPACING OF TYPE 2 ARROW IS REPRESENTATIVE OF SPACING FOR TYPE 1, TYPE 3, TYPE 4, & TYPE 5 ARROWS.
2. ALL TURNING LANES SHALL HAVE A MINIMUM OF 2 ARROWS.
3. GROUND MOUNTED OR OVERHEAD SIGNING SHALL BE SUPPLEMENTED BY TYPE 1 WORD.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF PAVEMENT MARKING ARROW LOCATION

NO SCALE JANUARY 2000

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

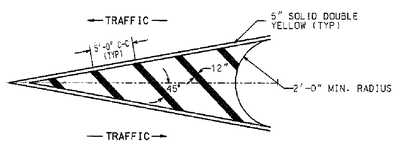
CONSTRUCTION DETAILS

SR 53 STREETSCAPE

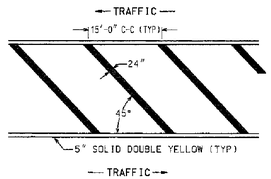
DRAWING No. 40-07

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

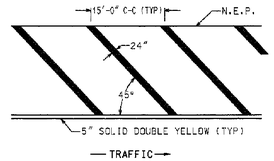
DETAIL "A" (YELLOW)



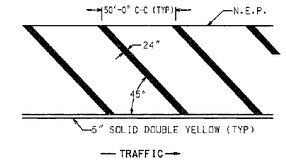
DETAIL "B" (YELLOW)



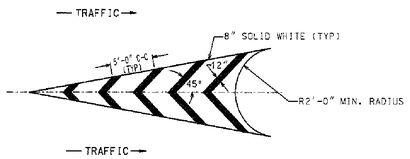
DETAIL "C" (YELLOW)



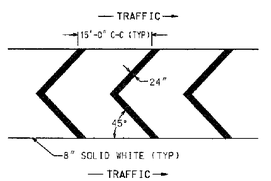
DETAIL "D" (YELLOW)



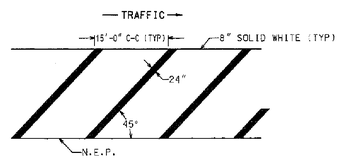
DETAIL "A" (WHITE)



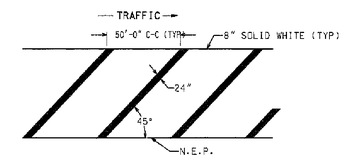
DETAIL "B" (WHITE)



DETAIL "C" (WHITE)



DETAIL "D" (WHITE)



GENERAL NOTES:

1. FOR YELLOW STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS. THE 5" SOLID DOUBLE YELLOW BORDERS SHALL BE SUMMARIZED AND PAID FOR SEPARATELY.
2. FOR WHITE STRIPING, THE SQUARE YARDS SHOWN ON PLAN, SUMMARY AND DETAILED ESTIMATE SHEETS INCLUDES THE AREA WITHIN THE BORDERS AS WELL AS THE 8" SOLID WHITE BORDER.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
PAVEMENT MARKING HATCHING

NO SCALE JANUARY 2000

NOT RELEASED FOR CONSTRUCTION

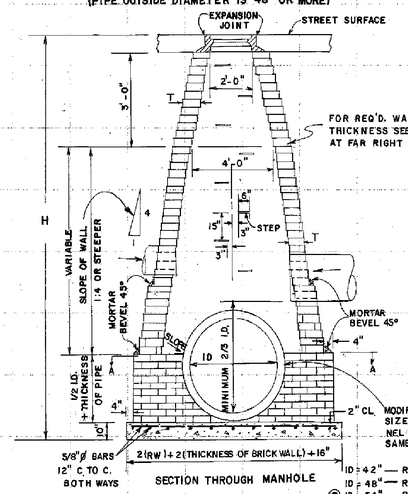
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS

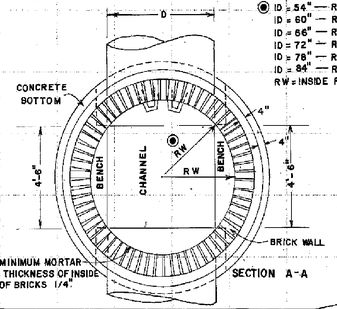
SR 53 STREETSCAPE

DRAWING No. 40-08

BRICK MANHOLE SECTION
(PIPE OUTSIDE DIAMETER IS 48" OR MORE)

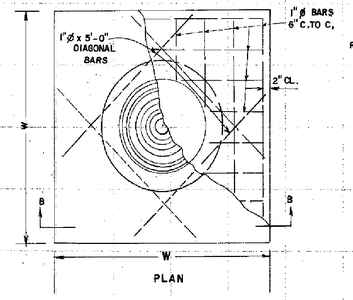


ID = 42" — RW = 2'-8"
ID = 48" — RW = 3'-0"
ID = 54" — RW = 3'-2"
ID = 60" — RW = 3'-4"
ID = 66" — RW = 3'-7"
ID = 72" — RW = 3'-9"
ID = 78" — RW = 3'-11"
ID = 84" — RW = 4'-2"
RW = INSIDE RADIUS OF WALL

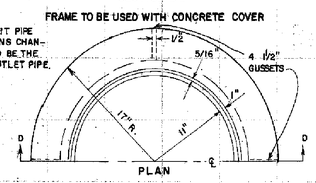


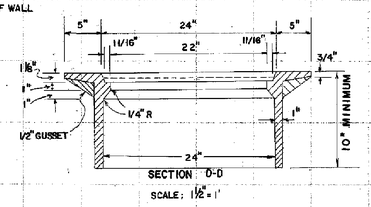
NOTE: MINIMUM MORTAR JOINT THICKNESS OF INSIDE EDGE OF BRICKS 1/4".

REINFORCED CONCRETE COVER



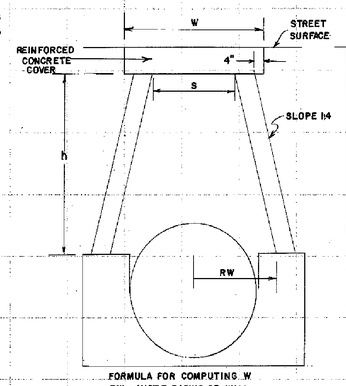
FRAME TO BE USED WITH CONCRETE COVER





SCALE: 1 1/2" = 1'

PLACEMENT FOR CONCRETE COVER



FORMULA FOR COMPUTING W
RW = INSIDE RADIUS OF WALL
S = 2RW − 1/2
W = S + 24"

NOTE: USE CONCRETE COVER WITH MANHOLE CASTINGS IF FILL FROM TOP OF PIPE TO FINISHED SURFACE IS LESS THAN:

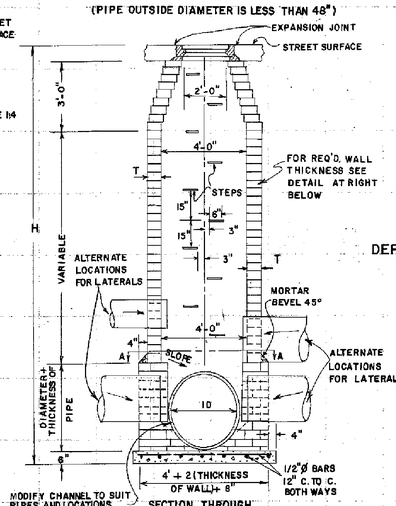
4'-6" FOR 42" PIPE
5'-0" FOR 48" PIPE
5'-6" FOR 54" PIPE
6'-0" FOR 60" PIPE
6'-6" FOR 66" PIPE
7'-0" FOR 72" PIPE
7'-6" FOR 78" PIPE
8'-0" FOR 84" PIPE

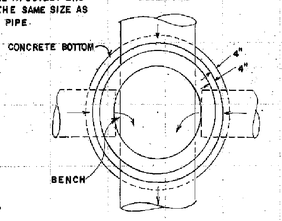
THICKNESS OF BRICK WALL
(SEE DETAIL AT FAR RIGHT)

DEPTH	THICKNESS (T)
TO 10'	*8" MIN.
10' TO 20'	12" MIN.
20' TO 30'	16" MIN.

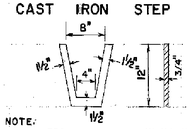
*FOR COMBINATION BRICK & PRECAST M.H. (SEE BELOW) ONLY 12" OR 16" BRICK WALL THICKNESS IS TO BE USED FOR BASE.

BRICK MANHOLE SECTION
(PIPE OUTSIDE DIAMETER IS LESS THAN 48")





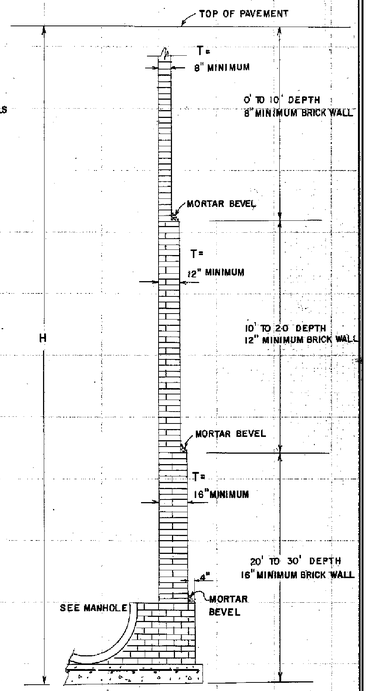
CAST IRON STEP



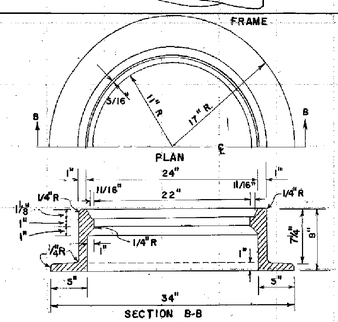
SCALE: 1 1/2" = 1'

NOTE:
STEPS ARE REQUIRED IN ALL MANHOLES WHERE "H" IS GREATER THAN 4'-0" NUMBER AND LOCATION OF STEPS TO BE AS DIRECTED BY THE ENGINEER. PLASTIC OR RUBBER COATED STEPS LISTED IN THE GA. D.O.T. QUALIFIED PRODUCTS MANUAL MAY BE SUBSTITUTED.

DEPTH LIMITS FOR INCREASING WALL THICKNESS



MANHOLE CASTINGS

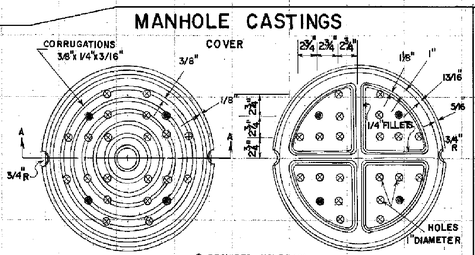


SCALE: 1 1/2" = 1"

APPROXIMATE WEIGHTS
C.I. FRAME 282 LBS.
C.I. COVER 178 LBS.

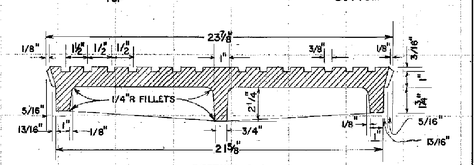
NOTE: COVER AND FRAME MUST BE FITTED BEFORE LEAVING SHOP, PAINT ACTUAL WEIGHT OF EACH CASTING ON ITS FACE.

MANHOLE FRAME & COVER SHOWN ON STD. 1011 A PRECAST MAY BE USED AN ALTERNATE TO CASTINGS SHOWN HERE.



● REQUIRED HOLES (4)
⊗ OPTIONAL HOLES

SCALE: 1 1/2" = 1'

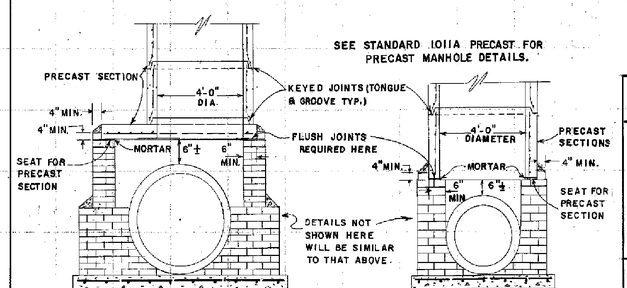


SCALE 3" = 1'

ALTERNATE - COMBINATION BRICK & PRECAST MANHOLES

NOTES FOR COMBINATION MANHOLE:
— BRICK PORTION OF MANHOLE WILL BE CONSTRUCTED WITH SEAT TO GIVE BEST POSSIBLE FIT FOR PRECAST UNIT. MINIMUM THICKNESS FOR BRICK WALL WILL BE 12" FOR H TO 20 FT. AND 16" FOR H=20 FT. TO 30 FT.
— PRECAST UNIT WITHOUT TONGUE OR GROOVE AT BOTTOM SHALL BE PLACED IN BRICK SEAT WITH MORTAR IN JOINT ALL ROUND. BRICK BASE SHALL SET FOR 24 HOURS MIN. BEFORE PRECAST SECTIONS ARE INSTALLED.
— STEPS IN THE BRICK PORTION OF MANHOLE WILL BE IN ALIGNMENT WITH AND MATCH THE STEPS IN THE PRECAST SECTIONS RATHER THAN AS SHOWN FOR THE ALL BRICK MANHOLES.

SEE STANDARD 1011A PRECAST FOR PRECAST MANHOLE DETAILS.



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
BRICK MANHOLES

SCALE AS SHOWN — REV. & RE DR. OCTOBER, 1981

DES. 8-58
DRW. R.M.U.
TRA. G.M.E.
CHK. R.K.C.

(SUBMITTED) Floyd E. Hardy — STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) Thomas D. Moreland — STATE HIGHWAY ENGINEER

NUMBER 1011A

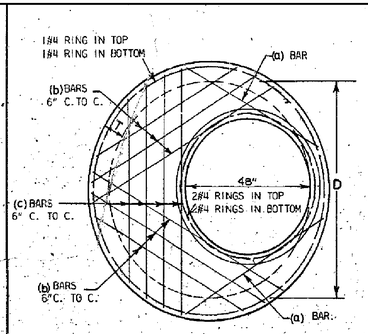
NOT RELEASED FOR CONSTRUCTION

REVISION DATES

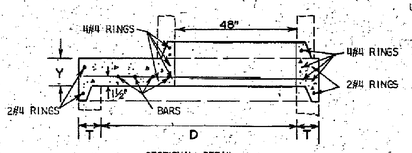
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

SR 53 STREETSCAPE

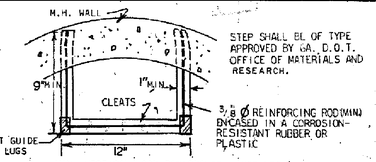
DRAWING No. 41-01



PLAN OF STEEL REINFORCEMENT



SECTIONAL DETAIL
REDUCER SLAB



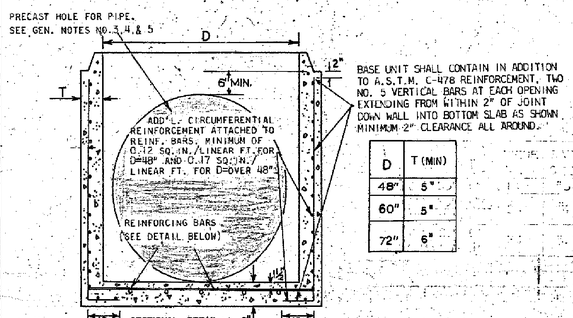
MIN. VERTICAL LOAD RESISTANCE = 400 LBS.
MIN. PULLOUT RESISTANCE = 700 LBS.

STEP DETAIL

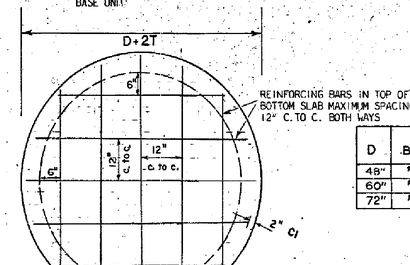
D.	Y MIN.	(a) BARS No.	(a) BARS SIZE	(b) BARS No.	(b) BARS SIZE	(c) BARS No.	(c) BARS SIZE
60"	8"	2	#6	4	#6	2	#6
72"	9"	2	#6	6	#6	4	#6

NOTE: 10 FT. MAXIMUM ALLOWANCE COVER ABOVE TOP OF REDUCER SLABS. REDUCER CONES TO BE USED WHERE REDUCER SLABS NOT PERMITTED.

D = INSIDE DIAMETER OF BASE UNIT



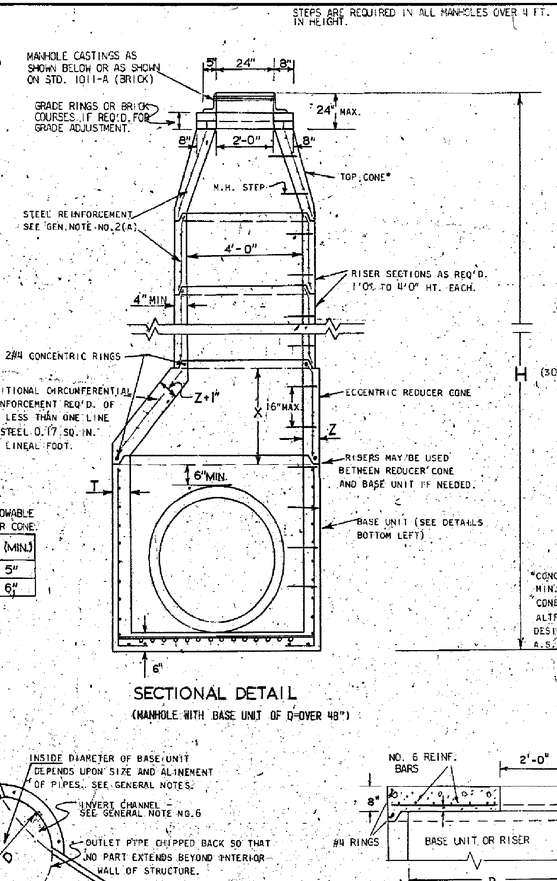
D	T (MIN)
48"	5"
60"	5"
72"	6"



PLAN OF STEEL REINFORCEMENT IN BOTTOM SLAB

BASE UNIT

D	BAR SIZE
48"	#5
60"	#6
72"	#6

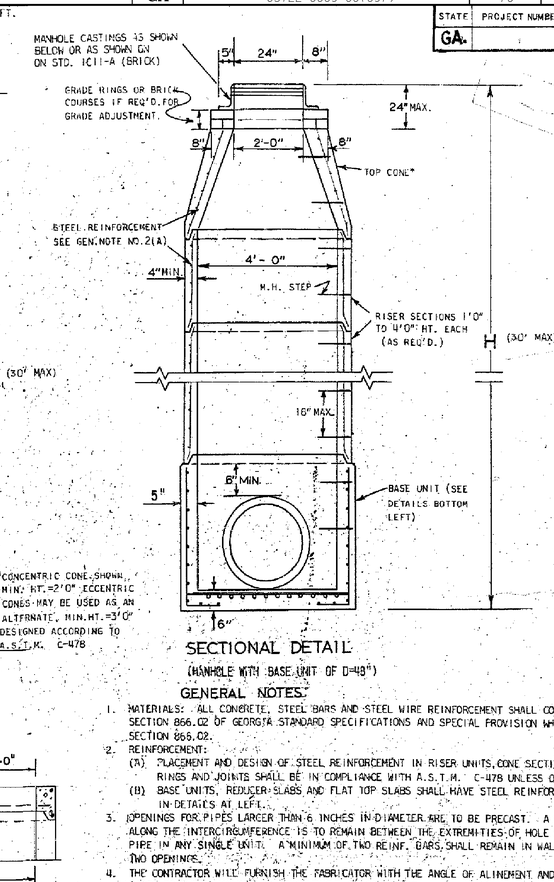


NOTE:
25 FT. MAXIMUM ALLOWABLE COVER ABOVE REDUCER CONE.

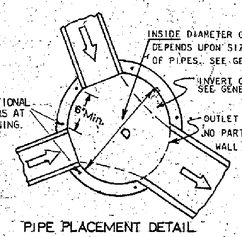
D	X (MIN.)	Z (MIN.)
60"	1'-6"	5"
72"	3'-0"	6"

SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D=OVER 48")

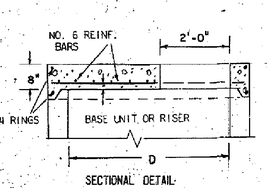
*CONCENTRIC CONE SHOWN, MIN. HT. =2'0" ECCENTRIC CONES MAY BE USED AS AN ALTERNATE, MIN. HT. =3'0" DESIGNED ACCORDING TO A.S.T.M. C-478



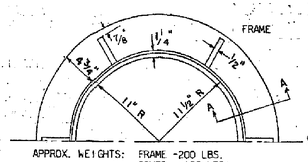
SECTIONAL DETAIL
(MANHOLE WITH BASE UNIT OF D=48")

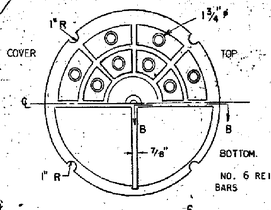


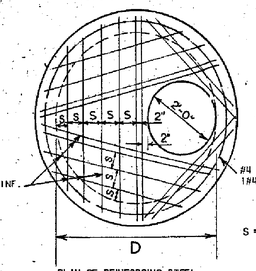
PIPE PLACEMENT DETAIL



SECTIONAL DETAIL





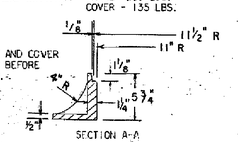


PLAN OF REINFORCING STEEL

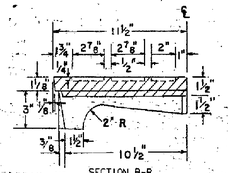
FLAT TOP SLAB IS FOR USE IN AREA OF MINIMUM COVER ONLY. MAXIMUM HEIGHT OF MANHOLE WITH FLAT TOP SLAB SHALL BE 4 FT. ABOVE TOP OF HIGHEST ENTERING PIPE.

FLAT TOP SLAB

NOTE: FRAME AND COVER TO BE FITTED BEFORE LEAVING SHOP.



SECTION A-A



SECTION B-B

MANHOLE CASTINGS (C.I.)

GENERAL NOTES:

1. MATERIALS: ALL CONCRETE, STEEL BARS AND STEEL WIRE REINFORCEMENT SHALL COMPLY WITH SECTION 866.02 OF GEORGIA STANDARD SPECIFICATIONS AND SPECIAL PROVISION WHICH MODIFY SECTION 866.02.
2. REINFORCEMENT:
   (A) PLACEMENT AND DESIGN OF STEEL REINFORCEMENT IN RISER UNITS, CONE SECTIONS, GRADE RINGS AND JOINTS SHALL BE IN COMPLIANCE WITH A.S.T.M. C-478 UNLESS OTHERWISE NOTED.
   (B) BASE UNITS, REDUCER SLABS AND FLAT TOP SLABS SHALL HAVE STEEL REINFORCEMENT AS SHOWN IN DETAILS AT LEFT.
3. OPENINGS FOR PIPES LARGER THAN 6 INCHES IN DIAMETER ARE TO BE PRECAST. A MINIMUM OF 6" ALONG THE INTERCIRCUMFERENCE IS TO REMAIN BETWEEN THE EXTREMITIES OF HOLE FOR ADJACENT PIPE IN ANY SINGLE UNIT. A MINIMUM OF TWO REINF. BARS SHALL REMAIN IN WALL BETWEEN ANY TWO OPENINGS.
4. THE CONTRACTOR WILL FURNISH THE FABRICATOR WITH THE ANGLE OF ALINEMENT AND SIZE OF ALL PIPES TO ENTER MANHOLE AND THE HEIGHT OF STRUCTURE.
5. BASE UNITS SHALL HAVE SUFFICIENT HEIGHT TO ALLOW FOR MINIMUM OF 6" OF WALL BETWEEN TOP OF HIGHEST OPENING FOR PIPES AND BOTTOM OF JOINT.
6. INVERT CHANNELS:
   (A) FOR SANITARY SEWER MANHOLES SEE GEORGIA STANDARD SPECIFICATIONS FOR CHANNEL REQUIREMENTS.
   (B) FOR STORM SEWER MANHOLES, CHANNELS BUILT TO SUIT PIPE SIZES AND LOCATION. HEIGHT OF CHANNEL EQUAL TO 1/2 DIAMETER OF OUTLET PIPE. CHANNEL BUILT FROM GROUT OR CLASS "A" CONCRETE.
7. PIPES ARE TO BE EXTENDED INTO STRUCTURE WALL A MINIMUM OF 4" BUT SHOULD NOT EXTEND BEYOND INTERIOR WALL OF STRUCTURE.
8. ALL JOINTS, EXCEPT FOR GRADE RINGS AND TOP OF TOP CONE, SHALL HAVE TONGUE AND GROOVE SECTION.

BY	REVISIONS	DATE
R.M.U.	CASTINGS & BASE U.	6-11-75

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PRECAST REINFORCED CONCRETE MANHOLE

NO SCALE AUGUST, 1973

DESIGNED: GCL / RMU
DRAWN: RMU
CHECKED: JEC
SUBMITTED: S. Kratzer STATE ROAD DESIGN ENGINEER
APPROVED: STATE BRIDGE ENGINEER

NUMBER 10M-A
PRECAST

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS
SR 53 STREETSCAPE

DRAWING No. 41-02

TYPE "A"

TYPE "B" WITH WEIR

TYPE "C"

TYPE "C" WITH WEIR

TYPE "D"

NOTE:
FOR LARGER PIPE SIZES, TYPE "D" DROP INLET BOX WILL HAVE DETAILS AND DIMENSIONS AS SHOWN FOR TYPE "C" INLETS.

TYPE "E" (WITH HOOD)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DETAILS OF C.I. GRATING & FRAME

Approx. Weights
Grate-200 lbs.
Frame-137 lbs.

DETAIL OF*HOOD (NON-MOUNTABLE USE WITH TP2 CURB)

DETAIL OF*HOOD (MOUNTABLE)

(use with Tp 7 Curb)

*CONTRACTOR SHALL SPECIFY EITHER MOUNTABLE OR NON-MOUNTABLE TO FOUNDRY IF HOOD IS REQUIRED.

BRICK WALL THICKNESSES

(FOR ALL TYPE INLETS)

H	T
TO 10'	8"
TO 20'	12"
TO 30'	16"

SPECIAL NOTE:
STANDARD 1019A INLETS ARE FOR USE AT LOW POINTS & WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.

NOTE:
DETAILS NOT SHOWN FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO THAT SHOWN FOR BRICK MASONRY.

CONSTRUCTION ALTERNATES

NOTE: CONCRETE WALLS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS, BUT WHERE H IS OVER 9 FT., AND PIPE IS OVER 30" I.D., THE HORIZONTAL STEEL, WHICH IS MORE THAN 9 FT. DEEP WILL BE INCREASED TO 6" SPACINGS. 6" CONC. BOTTOM SLABS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS.

NOTE: FOR PRECAST ALTERNATES, SEE STD. 1019-A PRECAST AND/OR STD. 1040 PRECAST AND BUILT-IN-PLACE COMPONENTS MAY BE USED IN COMBINATIONS WHICH PROVIDE PROPER FITS AND STRUCTURAL ADEQUACY.

NOTE:
MINIMUM DIMENSIONS GIVEN IN TABLE BELOW ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES WITH NORMAL COVER AND CLEARANCES, THESE DIMENSIONS MAY BE MODIFIED IF SO DETAILED IN THE PLANS OR AS DIRECTED BY THE ENGINEER, DIMENSIONS GIVEN ARE MINIMUM EXCEPT FOR "a" WHICH IS MAXIMUM.

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPES "A" OR "B" BRICK OR REINF. CONC.			TYPE "C" OR "D" (BRICK)						TYPE "E" (BRICK)						TYPE "C", "D" OR "E" (REINFORCED CONCRETE)						
	W1	W2	H(Min.)	W1	W2	W3	a (MAX.)	b	H(Min.)	W1	W2	W3	a (MAX.)	b	H(Min.)	W1 TYPE "C"	W1 TYPE "E"	W2	W3	a (MAX.)	b	H(Min.)
15"	2'-0"	2'-7"	3'-3½"	2'-2⅛"	2'-11"	2'-9⅛"	0'-4 9/16"	0'-7⅞"	3'-9½"	3'-2⅛"	3'-1"	3'-0⅝"	0'-7 9/16"	1'-1⅛"	3'-11½"	2'-0"	2'-1"	2'-7"	2'-0"	3½"	6"	3'-6"
18"	2'-0"	2'-10"	3'-7"	2'-2⅛"	3'-2½"	2'-9⅛"	0'-4 9/16"	0'-7⅞"	4'-1"	3'-2⅛"	3'-4½"	3'-0⅝"	0'-7 9/16"	1'-1⅛"	4'-1"	2'-0"	2'-1"	3'-0"	2'-0"	3½"	6"	3'-11"
24"	~	~	~	2'-8⅛"	3'-3⅛"	3'-3⅛"	0'-7 9/16"	1'-1⅛"	4'-9"	3'-2⅛"	3'-11½	3'-0⅝"	0'-7 9/16"	1'-1⅛"	4'-8¼"	2'-8"	2'-9"	3'-8"	2'-6"	6½"	11¼"	4'-7"
30"	~	~	~	3'-7¼"	4'-0¼"	3'-10 1/16"	1'-0⅛"	1'-9"	5'-10"	3'-5½"	4'-8⅜"	3'-4"	0'-8"	1'-1⅞"	5'-6⅞"	3'-4"	3'-6"	4'-9"	3'-0"	9½"	16½"	5'-10"
36"	~	~	~	4'-1⅞"	6'-0⅝"	4'-8⅞"	1'-4 7/16"	2'-2¼"	6'-11⅛"	3'-11½	5'-8 9/16"	3'-10"	0'-11"	1'-7 1/16"	6'-7 1/16"	3'-10"	4'-0"	5'-10"	3'-9"	1'-2"	2'-0"	6'-10"
42"	~	~	~	4'-5"	7'-1¾"	5'-0"	1'-6"	2'-7 3/16"	8'-0¼"	4'-6½"	7'-5 11/16"	4'-5"	1'-2½"	2'-1 3/16"	8'-4 3/16"	4'-5"	4'-6"	7'-0"	4'-3"	1'-5"	2'-5½"	7'-11"
48"	~	~	~	5'-0"	8'-2¾"	5'-7"	1'-9½"	3'-1¼"	9'-1¼"	5'-1½"	8'-6 11/16"	5'-0"	1'-6"	2'-7 3/16"	9'-5 3/16"	5'-0"	5'-0"	8'-2"	5'-0"	1'-9½"	3'-1½"	9'-2"
54"	~	~	~	5'-7"	9'-4"	6'-2"	2'-1"	3'-7½"	10'-2½"	5'-8½"	9'-7¾"	5'-7"	1'-9½"	3'-1¼"	10'-6¼"	5'-6"	5'-6"	9'-2"	5'-6"	2'-0½"	3'-6½"	10'-0"
60"	~	~	~	6'-2"	1'-4⅞"	6'-9"	2'-4½"	4'-1⅜"	11'-3¼"	6'-3½"	10'-8 13/16"	6'-2"	2'-1"	3'-7 5/16"	1'-7 5/16"	6'-0"	6'-0"	10'-3"	6'-0"	2'-3½"	4'-0"	11'-1"

GENERAL NOTES:

1. SPECIFICATIONS:GEORGIA STANDARD AND CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. ½" EXPANSION JOINT WILL BE REQUIRED WHERE RIGID PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.
3. ALIGNMENT, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL, SEE PLANS FOR ACTUAL PIPE CULVERT REQUIREMENTS.
4. ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN), SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
5. BRICK MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED AS SHOWN, BOTTOM SLAB MAY BE 8" MIN. NON-REINFORCED CONCRETE, 8" BRICK OR 6" MIN. REINFORCED CONCRETE, SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

DATE | REVISION | BY

STANDARD
DROP INLETS
(BUILT-IN-PLACE)

SCALE AS SHOWN REV. & REDR. AUG., 1999

DES. ___ REV. ___ TRA. ___ CHK. ___
(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) CHIEF ENGINEER

NUMBER 1019A

NOT RELEASED FOR CONSTRUCTION

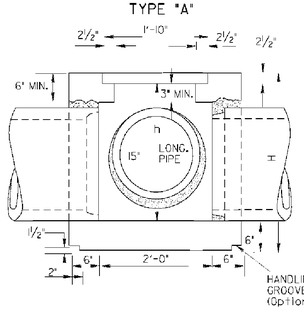
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

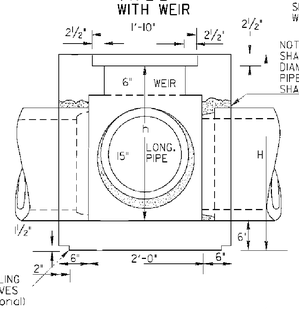
SR 53 STREETSCAPE

DRAWING No. 41-03

TYPE "A"



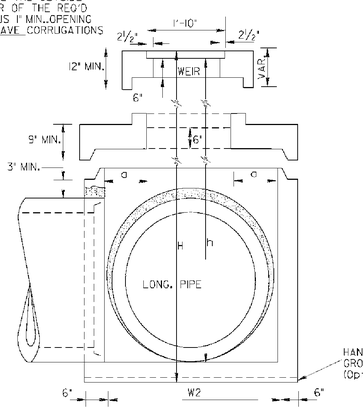
TYPE "B" WITH WEIR



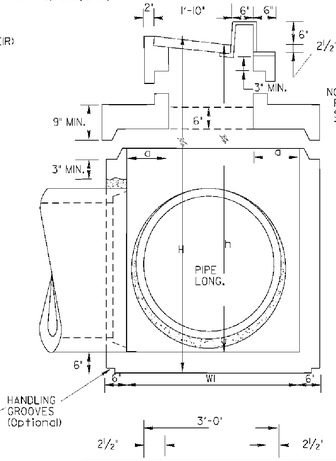
NOTE: OPENING FOR PIPE SHALL BE THE OUTSIDE DIAMETER OF THE REQ'D PIPE PLUS 1" MIN. OPENING SHALL HAVE CORRUGATIONS

NOTE:
SEE STANDARD 1019-A- BRICK DROP INLETS- FOR DETAIL OF GRATING FRAME, HOOD, ETC., WHERE NEEDED.

TYPE "C" (WITH OR WITHOUT WEIR)

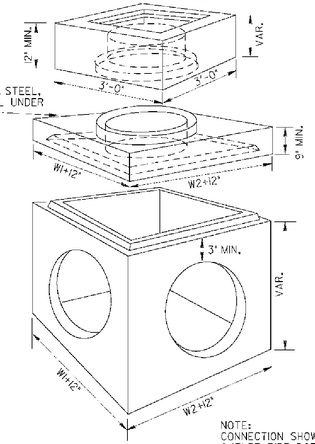


TYPE "E"

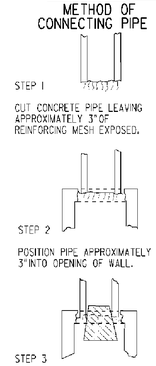


NOTE:
FOR REINF. STEEL, SEE DETAIL UNDER TYPE "C"

ISOMETRIC VIEW OF DROP INLET TYPE "C" OR "E" FOR PIPES LARGER THAN 18" (WITH OR WITHOUT WEIR)



METHOD OF CONNECTING PIPE



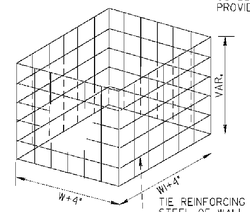
STEP 1
CUT CONCRETE PIPE LEAVING APPROXIMATELY 3" OF REINFORCING MESH EXPOSED.

STEP 2
POSITION PIPE APPROXIMATELY 3" INTO OPENING OF WALL.

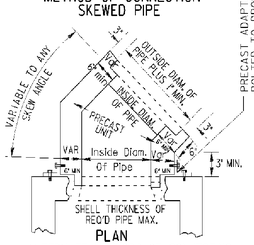
STEP 3
POSITION CONICAL CORE INSIDE OF PIPE AND SEAL WITH GROUT (1/2" MIN. THICKNESS OF GROUT). REMOVE CORE WHEN SET AND RUB GROUT TO SEAL JOINTS.

NOTE:
CONNECTION SHOWN ABOVE FOR USE WHERE CONCRETE OUTLET PIPE DOES NOT HAVE BELL OR HUB END PROVIDED AT STRUCTURE OUTLET.

IF THIS SIDEWALL SECTION SLAB IS USED TO REDUCE THE DIMENSIONS OR INCREASE THE MIN. THICKNESS TO 9" AND USE REINF. STEEL SHOWN UNDER TYPE "C"



ALTERNATE METHOD OF CONNECTION SKEWED PIPE

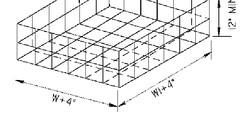


PLAN

ALTERNATE METHODS OF CONNECTING SKEWED PIPES MAY INCLUDE PIPE ELBOWS OR CIRCULAR PRECAST BASE UNITS. SEE SEPARATE STANDARDS.

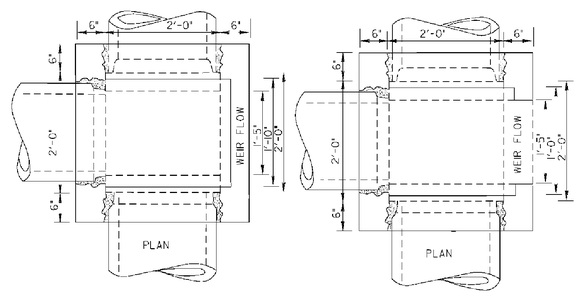
REINFORCING STEEL FOR BOTTOM SLAB

TIE REINFORCING STEEL OF WALL TO BOTTOM SLAB REINF. STEEL.



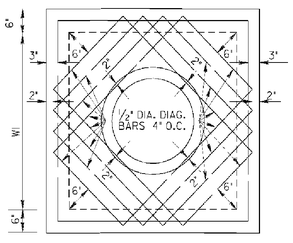
NOTE: REINFORCING STEEL SHALL BE No. 4 STEEL BARS AT 12" O.C. BOTH WAYS OR EQUIVALENT WIRE FABRIC REINFORCING.

SPECIAL NOTE:
STANDARD 1019A INLETS ARE FOR USE AT LOW POINTS AND WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.



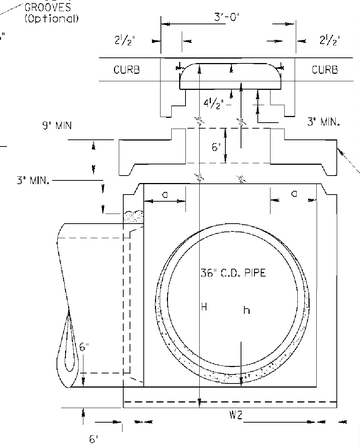
SCALE: 1" =1'

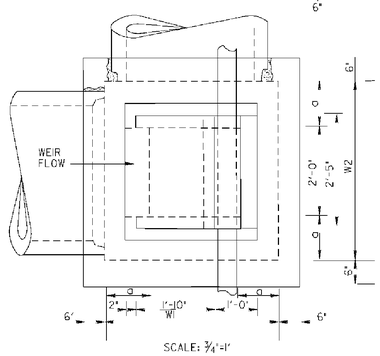
SCALE: 1" =1'



SCALE: ¾" =1'

FOR OTHER DETAILS, SEE TYPE "B"





SCALE: ¾"=1'

DIMENTIONS FOR DROP INLETS

PIPE SIZE	TYPE "A"		TYPE "B"		TYPE "C"				TYPE "E"			
	MIN. θ	MIN. H	MIN. θ	MIN. H	WIDTH W2	a	MIN. θ	MIN. H	WIDTH W2	a	MIN. θ	MIN. H
15"	2'- 0"	2'-8½"	2'- 7"	3'-3½"	2'- 0"		2'-7"	3'-3½"	2'- 0"		2'-7"	3 - 3½"
18"	2'-3½"	3'- 0"	2'-10"	3'-6½"	2'- 0"		2'-10"	3'-6½"	2'- 0"		2'-10"	3 - 6½"
24"					3'- 0"	0'- 6"	4'- 3½"	5'- 0"	3'- 0"	0'- 6"	4'- 7"	5 - 3 "
30"					3'- 6"	0'- 9"	4'-10½"	5'- 7"	3'- 6"	0'- 9"	5'- 2"	5 - 10"
36"					4'- 0"	1'- 0"	5'- 9½"	6'- 2"	4'- 0"	1'- 0"	5'- 9"	6 - 3 "
42"					4'- 6"	1'- 3"	6'-1½"	6'- 8"	4'- 6"	1'- 3"	6'- 4"	7 - 0 "
48"					5'- 0"	1'- 6"	6'- 7½"	7'- 3"	5'- 0"	1'- 6"	6'- 11"	7 - 7 "
54"					5'- 6"	1'- 9"	7'- 2½"	7'-10"	5'- 6"	1'- 9"	7'- 6"	8 - 2 "
60"					6'- 0"	2'- 0"	7'- 9½"	8'- 5"	6'- 0"	2'- 0"	8'- 1"	8 - 9 "

NOTE:
SEE STANDARD 1019A (BRICK) AND STANDARD 1040 FOR CONSTRUCTION ALTERNATES BRICK MASONRY AND CIRCULAR PRECAST SECTIONS RESPECTIVELY.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PRECAST DROP INLETS

SCALE AS SHOWN AUG. 1999

DESIGNED (SUBMITTED) James A. Kennard STATE ROAD & AIRPORT DESIGN ENGINEER
DRAWN
TRACED
CHECKED
(APPROVED) Carol L. Comer CHIEF ENGINEER

NUMBER 1019A PRECAST

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

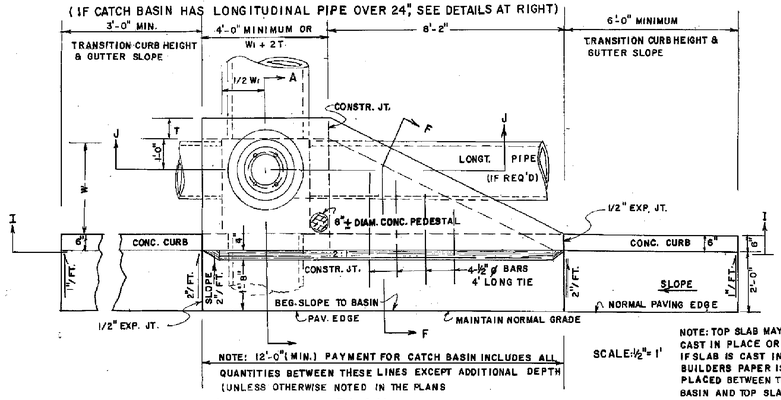
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

SR 53 STREETSCAPE

DRAWING No. 41-04

CATCH BASIN

(IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT)

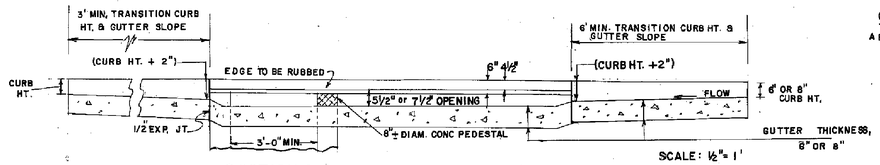


NOTE: 12'-0" (MIN.) PAYMENT FOR CATCH BASIN INCLUDES ALL QUANTITIES BETWEEN THESE LINES EXCEPT ADDITIONAL DEPTH (UNLESS OTHERWISE NOTED IN THE PLANS

SCALE: 1/2" = 1'

NOTE: TOP SLAB MAY BE CAST IN PLACE OR PRECAST. IF SLAB IS CAST IN PLACE, BUILDERS PAPER IS TO BE PLACED BETWEEN THE CATCH BASIN AND TOP SLAB.

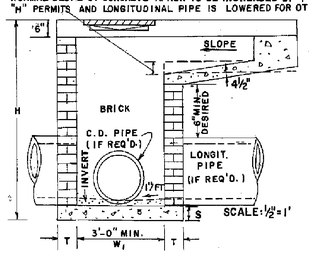
PLAN



SCALE: 1/2" = 1'

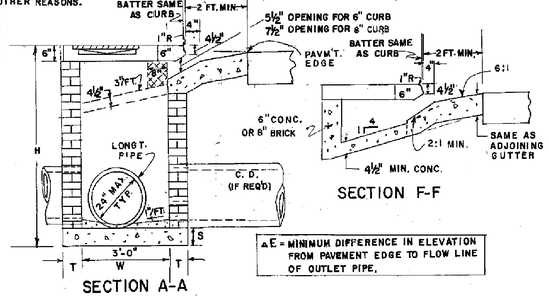
SECTION I-I

NOTE: NORMAL SLOPE OF CONCRETE APRON TO BE INCREASED BY 4" TO 8" WHERE "H" PERMITS AND LONGITUDINAL PIPE IS LOWERED FOR OTHER REASONS.



SCALE: 1/2" = 1'

SECTION J-J

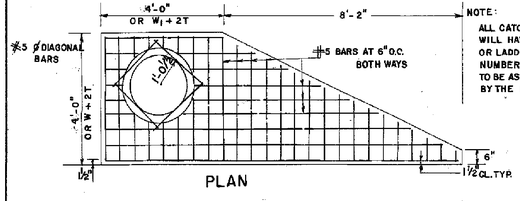


SECTION A-A

SECTION F-F

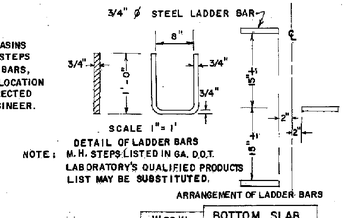
ΔE = MINIMUM DIFFERENCE IN ELEVATION FROM PAVEMENT EDGE TO FLOW LINE OF OUTLET PIPE.

DETAIL OF TOP REINFORCED CONCRETE SLAB



PLAN

NOTE: ALL CATCH BASINS WILL HAVE STEPS OR LADDER BARS, NUMBER & LOCATION TO BE AS DIRECTED BY THE ENGINEER.



DETAIL OF LADDER BARS

NOTE: M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

ARRANGEMENT OF LADDER BARS

W or W1 (MAX.)	BOTTOM SLAB MATERIALS	S
TO 4'-6"	NON-REINF. CONCRETE	6"
	OR BRICK	8"
OVER 4'-6"	CONC. REINF. W. #4 BARS 12" O.C. BOTH WAYS 2" CL. FROM SLAB TOP	8"

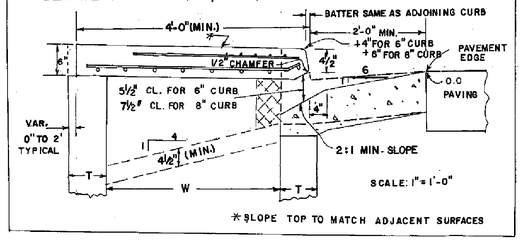
NOTE: ALL BARS IN PLAN VIEW ARE SPACED AT 6" O.C.

NOTE: FOR PLAN DETAIL OF REINFORCING STEEL IN TOP PORTION OF SLAB, SEE PART PLAN AT TOP RIGHT.

ELEVATION

FORM EF3

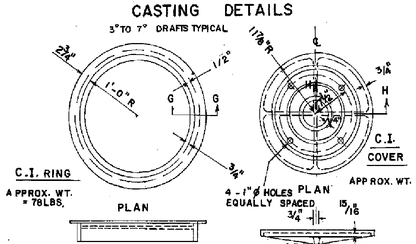
DETAIL OF TOP SLAB, REINF. STEEL & CLEARANCES REQ'D.

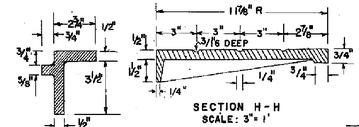


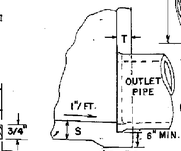
* SLOPE TOP TO MATCH ADJACENT SURFACES

CASTING DETAILS

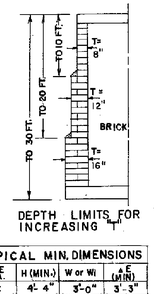
3" TO 7" DRAFTS TYPICAL

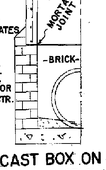






ALTERNATE TO INVERT

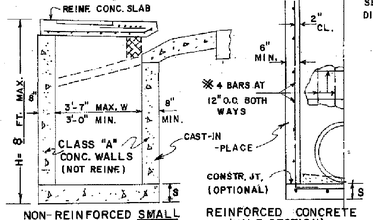




NOTE: SEE SEPARATE STDS. FOR PRECAST ALTERNATES ADAPTERS (STD. 1040) WILL BE REQUIRED WITH CIRCULAR PRE-CAST UNITS. PRECAST BOX, CIRCULAR, AND/OR BUILT-IN-PLACE CONSTR. MAY BE USED IN COMBINATIONS.

PRECAST BOX ON BRICK (HALF-SECTION)

NOTE: TYPICAL TREATMENT FOR SKEWED PIPE ARE: CIRCULAR PRECAST SWIVEL SECTIONS; PIPE ELBOWS OR INCREASED BOX SIZE.



PIPE DIA.	H (MIN.)	W or W1	ΔE (MIN)
12	4'-4"	3'-0"	3'-3"
15	4'-7"	3'-0"	3'-6"
18	4'-10"	3'-0"	3'-9"
24	5'-6"	3'-0"	4'-4"
30	6'-2"	3'-7"	5'-0"
36	6'-10"	4'-6"	5'-7"
42	7'-4"	5'-3"	5'-11"
48	8'-0"	6'-0"	6'-6"
56	8'-6"	6'-6"	7'-0"
60	9'-2"	7'-4"	7'-7"

NOTE: THE MIN. H & MIN. ΔE GIVEN IN ABOVE TABLE ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONC. PIPE AND MAY BE VARIED IF CONDITIONS PERMIT WITH VARIED DIMENSIONS SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. W, & W. DIMENSIONS DO NOT HAVE TO BE EQUAL.

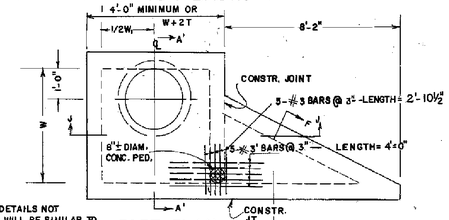
CONSTRUCTION ALTERNATES

NOTE: DETAILS NOT SHOWN ABOVE FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO BRICK CATCH BASIN DETAILS.

SEE SEPARATE STANDARDS FOR PRECAST ALTERNATES.

(TYPICAL FOR CATCH BASIN WITH LARGE LONGITUDINAL PIPE OR RECESSED BOX)

CATCH BASIN - (WITH PROTRUDED BACK)

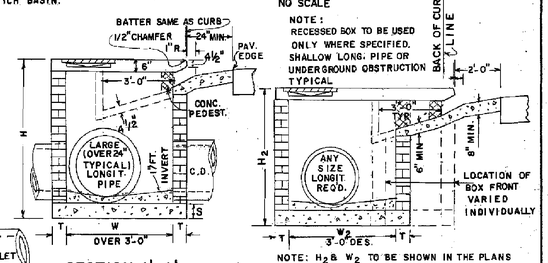


PART PLAN

NOTE: CATCH BASIN DETAILS NOT SHOWN HERE WILL BE SIMILAR TO THOSE AT LEFT FOR NORMAL CATCH BASIN.

NO SCALE

NOTE: RECESSED BOX TO BE USED ONLY WHERE SPECIFIED. SHALLOW LONG. PIPE OR UNDERGROUND OBSTRUCTION TYPICAL

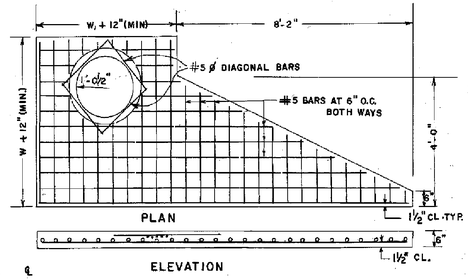


NOTE: H_2 & W_2 TO BE SHOWN IN THE PLANS

SECTION A'-A' (WITH LARGE LONGITUDINAL PIPE)

SECTION A-A (WITH RECESSED BOX)

DETAIL OF TOP REINFORCED CONCRETE SLAB



PLAN

ELEVATION

NOTE: PIPE SIZES, NUMBER, ALIGNMENT, AND INVERT SHOWN ARE ILLUSTRATIVE. SEE PLANS FOR SPECIFICS. INVERTS TO BE FORMED WITH GROUT OR CONCRETE AS DIRECTED BY THE ENGINEER OR AS SHOWN IN THE PLANS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD CATCH BASINS

FOR USE WITH CURB (6" HT. OR 8" HT.) & GUTTER

SCALE AS SHOWN

RED. & REDR. AUGUST, 1982

REV. & REDR.	RMU
TRA.	GME
CHK.	RKC

(SUBMITTED) Floyd E. Hardy
STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) Thomas D. Moore
STATE HIGHWAY ENGINEER

NUMBER 1033D

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

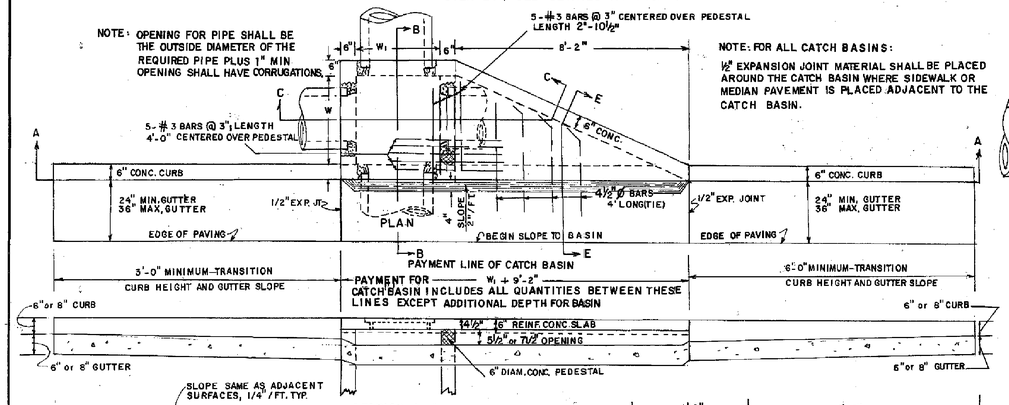
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

SR 53 STREETSCAPE

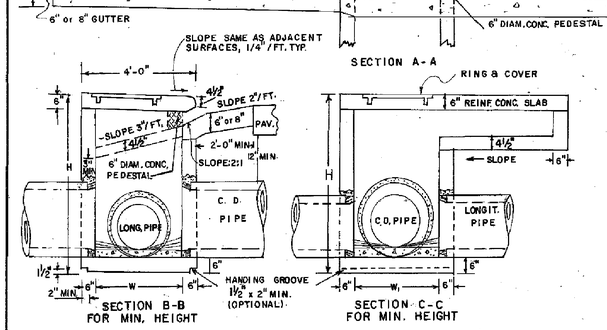
DRAWING No. 41-05

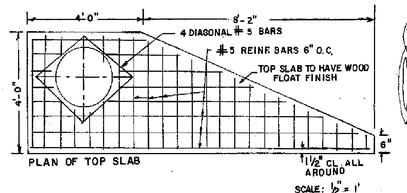
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

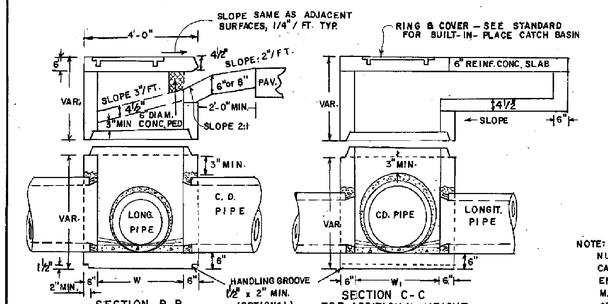
CATCH BASIN (IF CATCH BASIN HAS LONGITUDINAL PIPE OVER 24", SEE DETAILS AT RIGHT.)

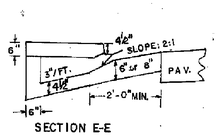


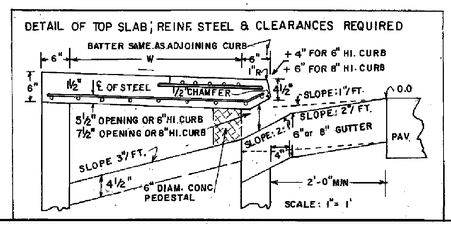
NOTE: FOR ALL CATCH BASINS:
½" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.



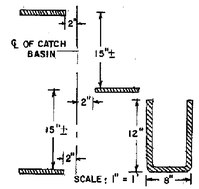






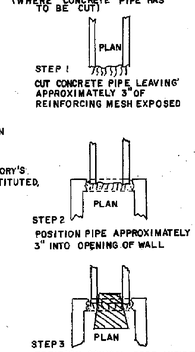


DETAIL AND ARRANGEMENT OF LADDER BARS

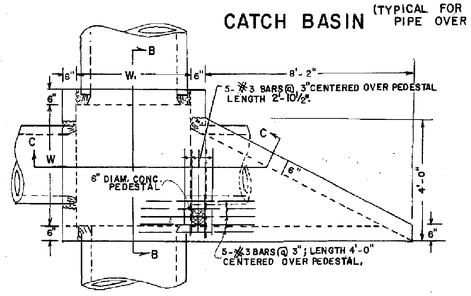


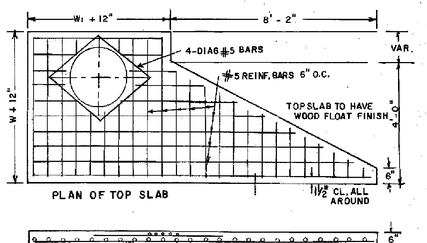
NOTE:
NUMBER AND LOCATION OF LADDER BARS IN CATCH BASIN TO BE AS DIRECTED BY THE ENGINEER.
M.H. STEPS LISTED IN GA. D.O.T. LABORATORY'S QUALIFIED PRODUCTS LIST MAY BE SUBSTITUTED.

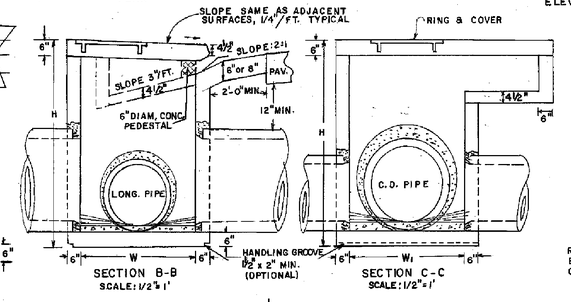
METHOD OF CONNECTING PIPE (WHERE CONCRETE PIPE HAS TO BE CUT)



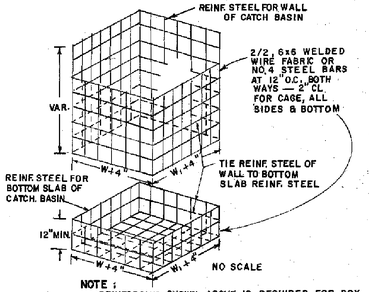
CATCH BASIN (TYPICAL FOR CATCH BASIN WITH LONGITUDINAL PIPE OVER 24".)





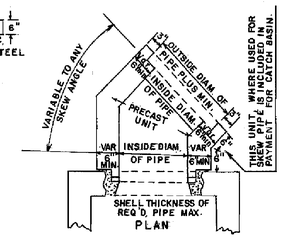


REINFORCING - ISOMETRIC VIEW



NOTE:
REINFORCING SHOWN ABOVE IS REQUIRED FOR BOX SHAPED BASIN. REINFORCING FOR CIRCULAR PRECAST ALTERNATE SHALL BE ACCORDING TO STD. 1040.

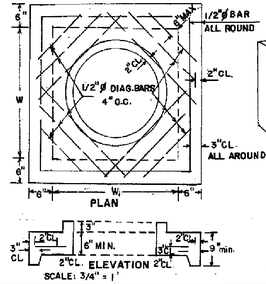
ALL JOINTS BETWEEN PRECAST RISERS OR BETWEEN PRECAST BASE AND RISER WILL BE KEYED. KEYED JOINTS SHOWN ARE TYPICAL AND MAY BE VARIED.



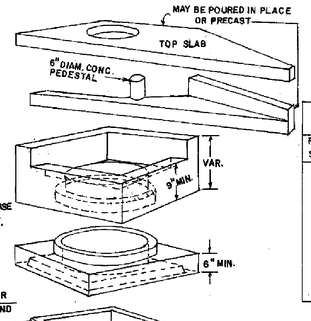
A METHOD OF CONNECTING SKEWED PIPE

IF THIS SWIVEL SECTION SLAB IS USED TO REDUCE THE W AND W_1 DIMENSIONS, INCREASE THE MIN. THICKNESS TO 9" AND USE REINF. STEEL. SEE DETAIL BELOW.

DETAIL FOR REINFORCED STEEL.



TYPICAL ISOMETRIC VIEW



SWIVEL SECTION MAY BE USED WHERE SKEWED PIPE CONNECTS TO PRECAST CONCRETE BOX.
THE ABOVE VIEW DEPICTS PRECAST BOX. SEE SEPARATE STANDARDS FOR CIRCULAR ALTERNATE OR BUILT-IN-PLACE BOX.

DIMENSIONS FOR CATCH BASINS		
PIPE SIZE	NORMAL W OR W_1	MIN H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-0"	5'-6"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-6"
48"	6'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

NOTE:
DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & W_1 DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE:
BUILT-IN-PLACE PRECAST BOX, AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE:
FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1033D FOR BUILT-IN-PLACE CATCH BASIN.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST CATCH BASINS
FOR USE WITH CURB (6" OR 8" HT.) & GUTTER

SCALE AS SHOWN — REV. & REDR., SEPT., 1982

REV & REDR. RMU	(SUBMITTED) Harold E. Hardy	NUMBER 1033D PRECAST
TRA GME	STATE ROAD & AIRPORT DESIGN ENGR	
CHK RKC	(APPROVED) [signature] STATE HIGHWAY ENGINEER	

FORM EF3

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

SR 53 STREETSCAPE

DRAWING No. 41-06

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CIRCULAR PRECAST REINFORCED CONCRETE SECTIONS

ADAPTER TYPE I

PLAN OF REINFORCING STEEL

NOTE:

WHERE W=48" (ONLY) A BARS NOT REQUIRED

WHERE W1 = 48" (ONLY) B BARS NOT REQUIRED

FOR CONSTRUCTION OF BOX TYPE BASES AND W AND W1 DIMENSIONS, SEE APPLICABLE STANDARDS FOR CATCH BASINS OR DROP INLETS.

SECTIONAL DETAIL

FIRST 2 BARS SPACED WITH 2" CL. AS SHOWN. ALL OTHERS MAX. SPACING OF "S" C. TO C. BARS SHALL BE IN BOTTOM OF SLAB WITH 1-1/2" CLEARANCE.

D (OR W)	"X"
54"	3"
60"	6"
72"	1'-0"
78"	1'-3"
84"	1'-6"

*WHERE W AND W1 DIMENSIONS DIFFER, USE SLAB THICKNESS AND REINFORCEMENTS FOR LARGER DIMENSION.

Y = MIN. THICKNESS WHERE HEIGHT OF FILL IS 12 ft., OR LESS, ABOVE TOP OF ADAPTER, TYPE I, OR CIRCULAR REDUCER.
Y1 = MIN. THICKNESS WHERE HEIGHT OF FILL ABOVE ADAPTER, TYPE I, OR CIRCULAR REDUCER = OVER 12 ft.

W & W1 OR D	BAR SIZE	S (Max.)	Y (Min.)	Y1 (Min)
48"	#4	6"	6"	6"
54"	#4	6"	8"	8"
60"	#5	6"	8"	9"
66"	#6	6"	8"	10"
72"	#6	5 1/2"	9"	11"
84"	#6	5"	9"	12"

CIRCULAR REDUCER SLAB

SECTIONAL DETAIL

CIRCULAR RISER SECTIONS- DESIGN AND STEEL REINFORCEMENT TO COMPLY WITH A.S.T.M. C-478 FOR PRECAST MANHOLE SECTIONS HT. = 1'0" TO 4'0" EACH.

KEYED JOINT REQUIRED AT ALL SECTIONS UNLESS NOTED OTHERWISE

CIRCULAR BASE UNIT- WALL DESIGN AND REINFORCEMENT TO COMPLY WITH A.S.T.M. C-478 EXCEPT THAT MIN. (T) THICKNESS = 5" AND ALL PRECAST OPENINGS FOR PIPES SHALL HAVE TWO ADDITIONAL VERTICAL REINFORCING BARS AS SHOWN.

SECTIONAL DETAIL

MIN WALL THICKNESS (T)		
D	BASE	RISER
48"	5"	4"
60"	5"	5"
72"	6"	6"

MATERIALS FOR BASE UNITS AND RISERS WILL COMPLY WITH GA. STANDARD SPECIFICATIONS FOR PRECAST MANHOLE SECTIONS.

D	MAX PIPE SIZE
48"	30"
60"	42"
72"	48"

REINF. STEEL OF WALL LAPPED UNDER AND TIED TO BOTTOM SLAB REINF. BARS ALL AROUND.

REINF. STEEL BARS IN BOTTOM MAX. SPAING 12" C. TO C. BOTH WAYS

D	BAR SIZE	NO.
48"	#5	8
60"	#5	10
72"	#6	12

ALL REINF. BARS EXTENDED TO WITHIN 2" OF OUTSIDE OF BASE

PLAN OF REINFORCING STEEL IN BOTTOM SLAB

ADDITIONAL 5 VERTICAL BARS, TWO PER OPENING, SPACED AS SHOWN

OUTLET PIPE-SET BELL OR GROOVE FLUSH WITH CORNERS OR BEVEL CORNERS 2" TO IMPROVE HYDRAULIC EFFICIENCY.

MIN. CIRCUMFERENTIAL AND LONGITUDINAL REINF. REQ'D BY A.S.T.M. C-478 THROUGH ENTIRE WALL OF BASE.

SECTION A-A

CONTRACTOR SHALL PROVIDE FABRICATOR WITH PIPE SIZES AND ALIGNMENT

ADAPTER TYPE 2

FOR USE WITH CATCH BASINS

PLAN OF REINFORCING STEEL

ADAPTER, TYPE 2, MAY BE USED WITH DRAINAGE STRUCTURES OTHER THAN CATCH BASINS, IF SO NOTED ON OTHER STANDARDS OR IN THE PLANS.

ADAPTER, TYPE 3, WILL BE USED FOR STRUCTURES WHICH ARE UNDER TRAFFIC.

SECTIONAL DETAIL

TYPICAL PLAN VIEWS OF CATCH BASINS

NOTE: FOR CURB AND GUTTER TRANSITION LOCATION RELATIVE TO ROADWAY, ETC., SEE APPLICABLE CATCH BASIN STANDARD.

DETAIL FOR CENTERING CIRCULAR SECTION OF CATCH BASINS BACK OF CURB

ADAPTER TYPE 3

FOR USE WITH DROP INLETS

PLAN OF REINFORCING STEEL

SECTIONAL DETAIL

NOTE: OPENING IN AN ADAPTER, TYPE 3, DEPENDS ON TYPE OF INLET, OPENING = 1'5" X 2'0" FOR INLET TYPES A,B,C, OR D, AND 2'0" X 2'0" FOR INLET, TYPE E (STANDARD 1019-A). FOR OTHER INLET TYPES OPENING EQUAL TO OPENING REQUIRED FOR INLET WITH BOX TYPE BASES.

GENERAL NOTES:

1. ALL CIRCULAR SECTIONS WILL HAVE KEYED TYPE JOINT IN ACCORDANCE WITH A.S.T.M. C-478.
2. ALL OPENINGS FOR PIPES OVER 6" IN DIAMETER MUST BE PRECAST.
3. ALL ADAPTERS AND REDUCER SLABS SHALL CONTAIN, IN ADDITION TO STEEL BAR REINF. SHOWN, CIRCUMFERENTIAL REINFORCEMENT IN LIP AND EXTENDING INTO BODY OF SLAB AS SHOWN.
4. FOR CONSTRUCTION ABOVE ADAPTER, TYPE 2, AND TYPE 3, AND BELOW TYPE I, SEE APPLICABLE GA. STDS. FOR CATCH BASINS OR DROP INLETS.
5. CIRCULAR SECTIONS SHOWN ON THIS STANDARD MAY BE SUBSTITUTED FOR THE BOX TYPE BASE ON GA. STDS. AND CONSTRUCTION DETAILS FOR CATCH BASINS AND DROP INLETS, WHERE STRUCTURE HEIGHT, PIPE SIZE, AND ALIGNMENT PERMIT. SPECIFIED STRUCTURE HEIGHT SHALL BE SUFFICIENT TO ACCOMODATE THE REQUIRED BASE SIZE, ADAPTERS, RISERS, AND TOP PORTION FOR ALLOWANCE OF THE CIRCULAR ALTERNATES.

DROP INLET WITH CIRCULAR SECTIONS

SEE APPLICABLE STANDARD OR CONSTRUCTION DETAILS FOR DROP INLET DETAILS NOT SHOWN HERE.

PLAN

INLET TYPE		MIN θ3
STD. 1019A	A,B,& C	6"
	D	8"
	E	12"
STD. 1019 B TYPE V1 & V2		12"
9031-S MED.		12"
DITCH D.I.		6"
STD 1010-T "C"		8"

TYPICAL: BRICK MASONARY AND/OR CONCRETE CONSTRUCTION PER APPLICABLE SEPARATE STANDARD.

SECTIONAL VIEW

** TYPE 3 ADAPTER NOT REQUIRED FOR STD. 9031-S MEDIAN D.I. IF PRECAST APRON IS USED. (SEE STANDARD 9031-S PRECAST)

BUILT-IN-PLACE CIRCULAR BASE

(BRICK MASONRY OR CLASS "A" CONCRETE)

SECTION B-B

PIPE SIZE	MIN. θ1
12"	2'-3"
15"	2'-6"
18"	2'-9"
24"	3'-6"
30"	4'-0"
36"	4'-6"
42"	5'-3"
48"	5'-9"

CATCH BASIN WITH CIRCULAR SECTIONS

CONSTRUCTION ABOVE ADAPTER WILL BE EITHER PRECAST, BUILT-IN-PLACE, OR A COMBINATION OF BOTH ACCORDING TO APPLICABLE CATCH BASIN STANDARDS.

SECTIONAL VIEW

⊛ STD. NO	CURB HEIGHT	MIN. θ2	"E"
1033 D; 1033 G	6"	2'-0"	2'-0"
	8"	2'-2"	2'-0"
1033 E	4"	2'-0"	3'-0"
1033 F	4"	1'-11"	4'-0"
	6"	2'-1"	4'-0"
	8"	2'-1"	3'-0"
	10"	2'-1"	2'-0"
1034 D; 1034 G	6"	2'-1"	2'-0"
	8"	2'-2"	2'-0"
1034 E	4"	2'-0"	3'-0"
1034 F	4"	1'-11"	4'-0"
	6"	2'-1"	4'-0"
	8"	2'-1"	3'-0"
	10"	2'-1"	2'-0"

⊛REFERENCED STANDARD MAY BE PRECAST OR BUILT - IN PLACE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CIRCULAR BASE UNITS AND RISERS FOR CATCH BASINS AND DROP INLETS
(CONSTRUCTION ALTERNATES)

NO SCALE REV. & REDR.: NOV., 1999

DATE / REVISION / BY

DES. ____ DRW. ____ TRA. ____ CHK. ____
(SUBMITTED) James A. Kennel STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED) [signature] CHIEF ENGINEER

NUMBER 1040

NOT RELEASED FOR CONSTRUCTION

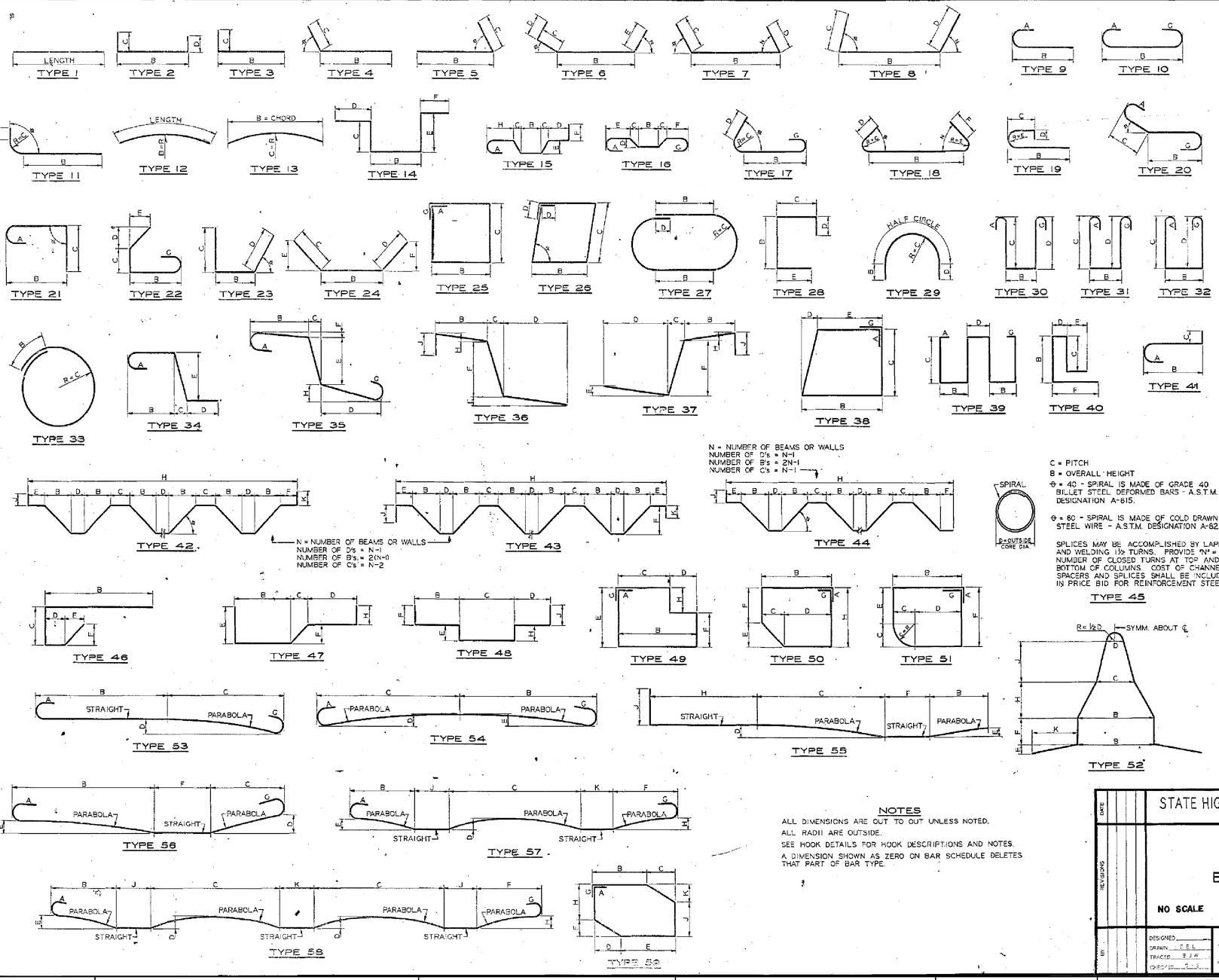
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

SR 53 STREETSCAPE

DRAWING No. 41-07

11/3/2010 3:26:00 PM	GDOTRoad	p:\02\02358\008\dgn\009097gs88.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray	ROAD.TBL		GA	CSTEE-0009-00(097)	76	99



N = NUMBER OF BEAMS OR WALLS
NUMBER OF D's = N-1
NUMBER OF B's = 2N-1
NUMBER OF C's = N-1

N = NUMBER OF BEAMS OR WALLS
NUMBER OF D's = N-1
NUMBER OF B's = 2(N-1)
NUMBER OF C's = N-2

C = PITCH
B = OVERALL HEIGHT

Θ = 40 - SPIRAL IS MADE OF GRADE 40 BILLET STEEL DEFORMED BARS - A.S.T.M. DESIGNATION A-615.

Θ = 60 - SPIRAL IS MADE OF COLD DRAWN STEEL WIRE - A.S.T.M. DESIGNATION A-82.

SPLICES MAY BE ACCOMPLISHED BY LAPPING AND WELDING 1½ TURNS. PROVIDE "N" = TOTAL NUMBER OF CLOSED TURNS AT TOP AND BOTTOM OF COLUMNS. COST OF CHANNEL SPACERS AND SPLICES SHALL BE INCLUDED IN PRICE BID FOR REINFORCEMENT STEEL.

HOOK DETAILS

RECOMMENDED 180° HOOKS

GRADE 40 ksi
D = 5d for #3 through #11
D = 10d for #14 and #18

GRADES 50-60-75 ksi
D = 5d for #3 through #8
D = 6d for #9, #10, and #11
D = 10d for #14 and #18

RECOMMENDED 180° END HOOK DIMENSIONS

BAR SIZE	GRADES 50-60-75 ksi A or G	GRADES 50-60-75 ksi J	GRADE 40 ksi A or G	GRADE 40 ksi J
#3	5	3	5	2¼
#4	6	4	6	3½
#5	7	5	7	4½
#6	8	6	8	5¼
#7	10	7	9	6¼
#8	11	8	10	7
#9	1-3	11¼	1-0	9
#10	1-5	1-0¾	1-1	9
#11	1-7	1-2¾	1-2	10
#14	2-2	1-8½	2-2	1-8½
#18	2-11	2-3	2-11	2-3
STYLE	1		2	

RECOMMENDED 90° END HOOK DIMENSIONS
ALL GRADES
D = 6d for #3 through #8
D = 8d for #9, #10, and #11
D = 10d for #14 and #18

BAR SIZE	HOOK A or G
#3	6
#4	8
#5	10
#6	1-0
#7	1-2
#8	1-4
#9	1-7
#10	1-10
#11	2-0
#14	2-7
#18	3-4
HOOK STYLE 3	

STIRRUP AND TIE HOOK

STIRRUPS (TIES SIMILAR)

STIRRUP AND TIE HOOK DIMENSIONS
GRADES 40-50-60 ksi

BAR SIZE	D (in.)	90° HOOK A or G	90° HOOK J	135° HOOK A or G	135° HOOK J Approx.
#3	1½	4	4	4	2⅞
#4	2	4½	4½	5	3
#5	2½	6	5½	6	3⅝
#6	3	6½	6½	6½	4½
STYLE		4		5	

STYLE 6 = NO HOOK

HOOK STYLES DETAILED ON THIS SHEET ARE FOR ILLUSTRATION ONLY. ACTUAL HOOK STYLE FOR ANY PARTICULAR BAR WILL BE SHOWN UNDER A or G HEADING ON BAR SCHEDULE.

NOTES

ALL DIMENSIONS ARE CUT TO CUT UNLESS NOTED.
ALL RADII ARE OUTSIDE.
SEE HOOK DETAILS FOR HOOK DESCRIPTIONS AND NOTES.
A DIMENSION SHOWN AS ZERO ON BAR SCHEDULE DELETES THAT PART OF BAR TYPE.

STATE HIGHWAY DEPARTMENT OF GEORGIA
BRIDGE DIVISION

STANDARD
BAR BENDING DETAILS

NO SCALE — AUGUST 1969

DESIGNED
DRAWN T.S.L.
TRACED B.J.W.
CHECKED T.J.W.

SUBMITTED R.L. Glassman Jr. BRIDGE ENGINEER
APPROVED STATE HIGHWAY ENGINEER

NUMBER 3901

NOT RELEASED FOR CONSTRUCTION

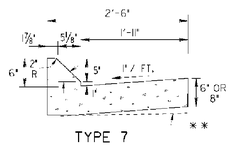
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

SR 53 STREETSCAPE

DRAWING No. 41-08

CONCRETE CURB & GUTTER

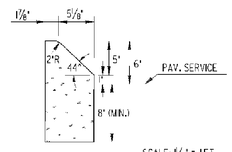


TYPE 7

SCALE 1" = 1FT.

**AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CONCRETE HEADER CURB

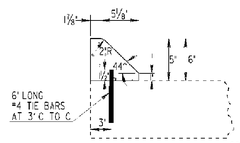


TYPE 7

SCALE: 1½" = 1FT.

THE 8" MIN. DEPTH MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB ALIGNS WITH PAV. BOTTOM.

CONCRETE DOWELED INTEGRAL CURB

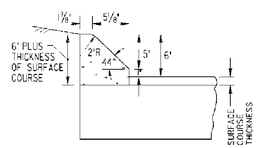


TYPE 7

SCALE: 1½" = 1FT.

TIE BARS WILL BE PLACED AS SOON AS PRACTICAL AFTER FINISHING AND BEFORE INITIAL SET IN PCC PAVEMENT. TIE BARS MAY BE DRIVEN IN OR DRILLED & GROUTED IN ASPHALT PAVING. JOINTS IN CURB SHALL MATCH THOSE IN PCC PAV. OR BE AT 20' SPA. FOR ASPHALT PAVING

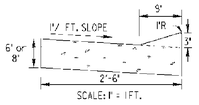
CONCRETE INTEGRAL CURB



TYPE 7

SCALE: 1½" = 1FT.

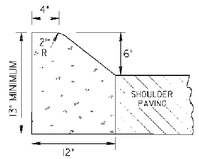
RAISED EDGE WITH CONCRETE GUTTER



SCALE: 1" = 1FT.

RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED IMMEDIATELY AFTER GUTTER HAS BEEN FINISHED OR FORMED MONOLITHIC WITH GUTTER JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

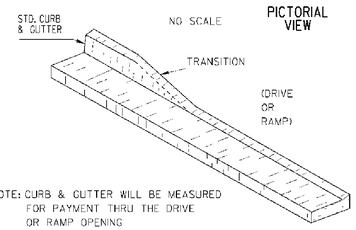
CONCRETE HEADER CURB (TYPE 6)



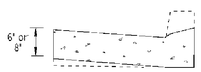
SCALE: 1½" = 1FT.

DETAILS OF RECESSED CURB

TYPICAL USE: AT DRIVEWAYS OR CURB CUT RAMPS



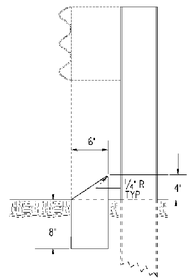
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE OR RAMP OPENING



SECTIONAL VIEW

(SEE SEPARATE STANDARD FOR DRIVEWAY OR CURB RAMP FOR ADDITIONAL DETAILS.)

FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

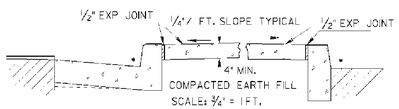
TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 402C.

NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (STANDARD 9031-W) WILL BE REQUIRED.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CONCRETE MEDIAN (Between Curbs)

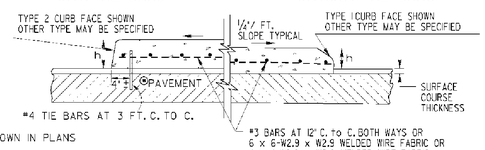
NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.



SCALE: ¾" = 1FT.

CONCRETE MEDIANS (Integral)

SCALE: 1"=1FT.

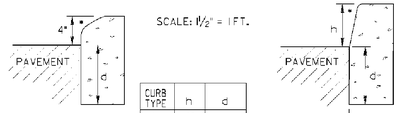


NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

CONCRETE HEADER CURBS

(STANDARD FACE DESIGNS)

SCALE: 1½" = 1FT.

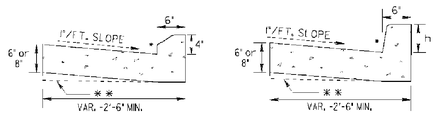


CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.

TYPE 1 TYPE 2,3 OR 4

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVING

CONCRETE CURB & GUTTER

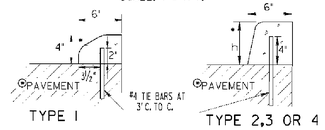


TYPE 1 SCALE: 1" = 1FT. TYPE 2, 3 OR 4

**AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CONCRETE DOWELED INTEGRAL CURBS

SCALE: 1" = 1FT.



Ⓟ P.C. CONCRETE PAVEMENT-
TIE BARS WILL BE PLACED AS SOON AS PRACTICABLE AFTER FINISHING AND BEFORE INITIAL SET HAS TAKEN PLACE. JOINTS IN CURB OR CONC. MEDIAN WILL MATCH THOSE IN PAVEMENT.

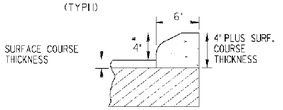
Ⓐ ASPHALT PAVEMENT-
TIE BARS MAY BE DRIVEN IN OR DRILLED AND GROUTED IN. CONTRACTION JOINTS ARE TO BE CONSTRUCTED IN CURB OR CONCRETE MEDIAN AT 20 FT. SPACINGS.

MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"

NOTE:
TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-31)

CONCRETE INTEGRAL CURB

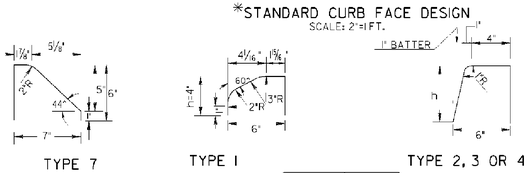
(TYPE I)



SCALE: 1½" = 1FT.

*STANDARD CURB FACE DESIGN

SCALE: 2" = 1FT.



TYPE 7 TYPE 1 TYPE 2, 3 OR 4

TYPE	6
1	4"
2	6"
3	8"
4	10"

DATE	REVISION	BY
3-03	ADDED TYPE 8 DETAIL	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

SCALE: AS SHOWN REDRAWN SEPT., 1999

DES. ____ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.
DRW. ____
TRA. ____ (APPROVED)
CHK. ____ CHIEF ENGINEER

NUMBER 9032B

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

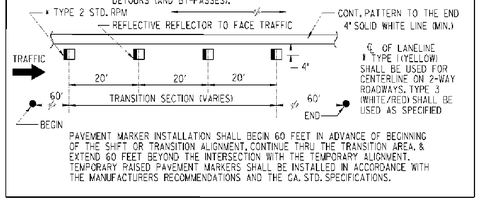
SR 53 STREETSCAPE

DRAWING No. 41-09

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TEMPORARY RAISED PAVEMENT MARKER DETAIL

INSTALLATION PATTERN FOR LATERAL MAINLINE SHIFTS AND CROSSOVER OPERATIONS. ALSO APPLICABLE FOR DETOURS (AND BY-PASSES).



TYPE I (YELLOW) SHALL BE USED FOR CENTERLINE ON 2-WAY ROADWAYS. TYPE I (WHITE/RED) SHALL BE USED AS SPECIFIED

PAVEMENT MARKER INSTALLATION SHALL BEGIN 60 FEET IN ADVANCE OF BEGINNING OF THE SHIFT OR TRANSITION ALIGNMENT, CONTINUE THRU THE TRANSITION AREA, & EXTEND 60 FEET BEYOND THE INTERSECTION WITH THE TEMPORARY ALIGNMENT. TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND THE GA. STD. SPECIFICATIONS.

STANDARD LEGEND

- STRIPED DRUM
- TYPE III BARRICADES
- SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE "C" STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- SEQUENTIAL OR FLASHING ARROW
- PORTABLE CHANGEABLE MESSAGE SIGN
- PERMANENT TYPE POST MOUNTED SIGN
- TEMPORARY POST MOUNTED SIGN
- PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- WORK AREA
- TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- FLAGGER WITH STOP-SLOW PADDLE
- TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE

GENERAL NOTES :

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
7. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS- AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS, UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
10. ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED. EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
11. FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMPS AT ALL TIMES.
12. ALL CROSSROADS, SIDEROADS, RAMPS OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
13. MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED: APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
14. ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
15. CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
16. THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES. REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
17. EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
18. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINII, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.

(b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

DATE	REVISION	BY
4-24-01	REVISED GENERAL NOTES AND LEGEND, DELETED TWO SPEC. BAR. SIG. DETAILS.	G.O
3-30-06		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
TRAFFIC CONTROL
GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS

NO SCALE — AUG., 1999

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9100

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

GEORGIA STANDARDS

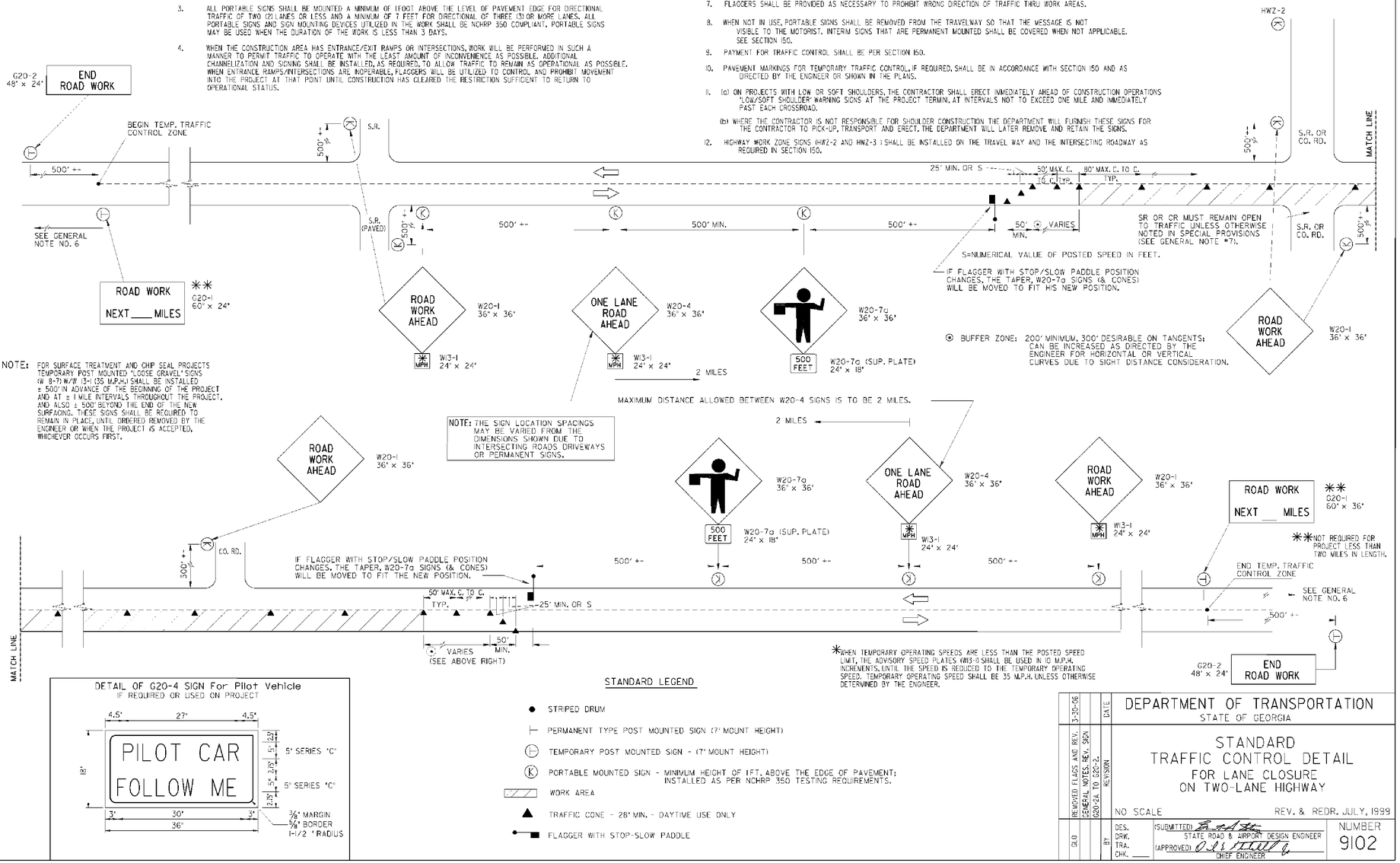
SR 53 STREETSCAPE

DRAWING No. 41-10

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
2. ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
3. ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
4. WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMPS OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMPS/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
5. FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6") INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
6. SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150.
7. FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.
8. WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
9. PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.
10. PAVEMENT MARKINGS FOR TEMPORARY TRAFFIC CONTROL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 150 AND AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS.
11. (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.
    (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
12. HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



NOTE: FOR SURFACE TREATMENT AND CHIP SEAL PROJECTS TEMPORARY POST MOUNTED "LOOSE GRAVEL" SIGNS (W 8-7) W/W (3-I (35 M.P.H.) SHALL BE INSTALLED ± 500' IN ADVANCE OF THE BEGINNING OF THE PROJECT AND AT ± 1 MILE INTERVALS THROUGHOUT THE PROJECT, AND ALSO ± 500' BEYOND THE END OF THE NEW SURFACING. THESE SIGNS SHALL BE REQUIRED TO REMAIN IN PLACE, UNTIL ORDERED REMOVED BY THE ENGINEER OR WHEN THE PROJECT IS ACCEPTED, WHICHEVER OCCURS FIRST.

NOTE: THE SIGN LOCATION SPACINGS MAY BE VARIED FROM THE DIMENSIONS SHOWN DUE TO INTERSECTING ROADS DRIVEWAYS OR PERMANENT SIGNS.

*WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED. TEMPORARY OPERATING SPEED SHALL BE 35 M.P.H. UNLESS OTHERWISE DETERMINED BY THE ENGINEER.

DETAIL OF G20-4 SIGN For Pilot Vehicle
IF REQUIRED OR USED ON PROJECT

STANDARD LEGEND

- STRIPED DRUM
- PERMANENT TYPE POST MOUNTED SIGN (7' MOUNT HEIGHT)
- TEMPORARY POST MOUNTED SIGN - (7' MOUNT HEIGHT)
- PORTABLE MOUNTED SIGN - MINIMUM HEIGHT OF 1FT. ABOVE THE EDGE OF PAVEMENT; INSTALLED AS PER NCHRP 350 TESTING REQUIREMENTS.
- WORK AREA
- TRAFFIC CONE - 28" MIN. - DAYTIME USE ONLY
- FLAGGER WITH STOP-SLOW PADDLE

DATE	REVISION
3-30-06	REMOVED FLAGS AND REV. SIGN, GENERAL NOTES, REV. SIGN G20-2a TO G20-2.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999

GLD — BY — DES. — DRW. — TRA. — CHK. ___

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9102

NOT RELEASED FOR CONSTRUCTION

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
GEORGIA STANDARDS

SR 53 STREETSCAPE

DRAWING No. 41-11

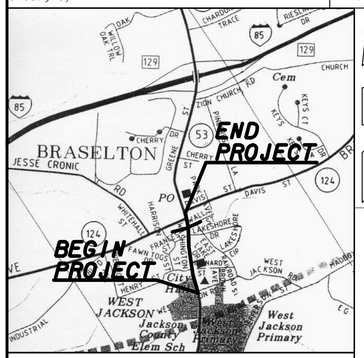
11/3/2010 3:26:06 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097ec01.dgn	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			JACKSON	CSTEE-0009-00(907)	80	99

TOWN OF BRASELTON
JACKSON COUNTY

EROSION, SEDIMENT & POLLUTION CONTROL PLAN AND COMPREHENSIVE MONITORING PROGRAM
SR 53 STREETSCAPE
CSTEE-0009-00(097)

TRANSPORTATION ENHANCEMENT PROJECT

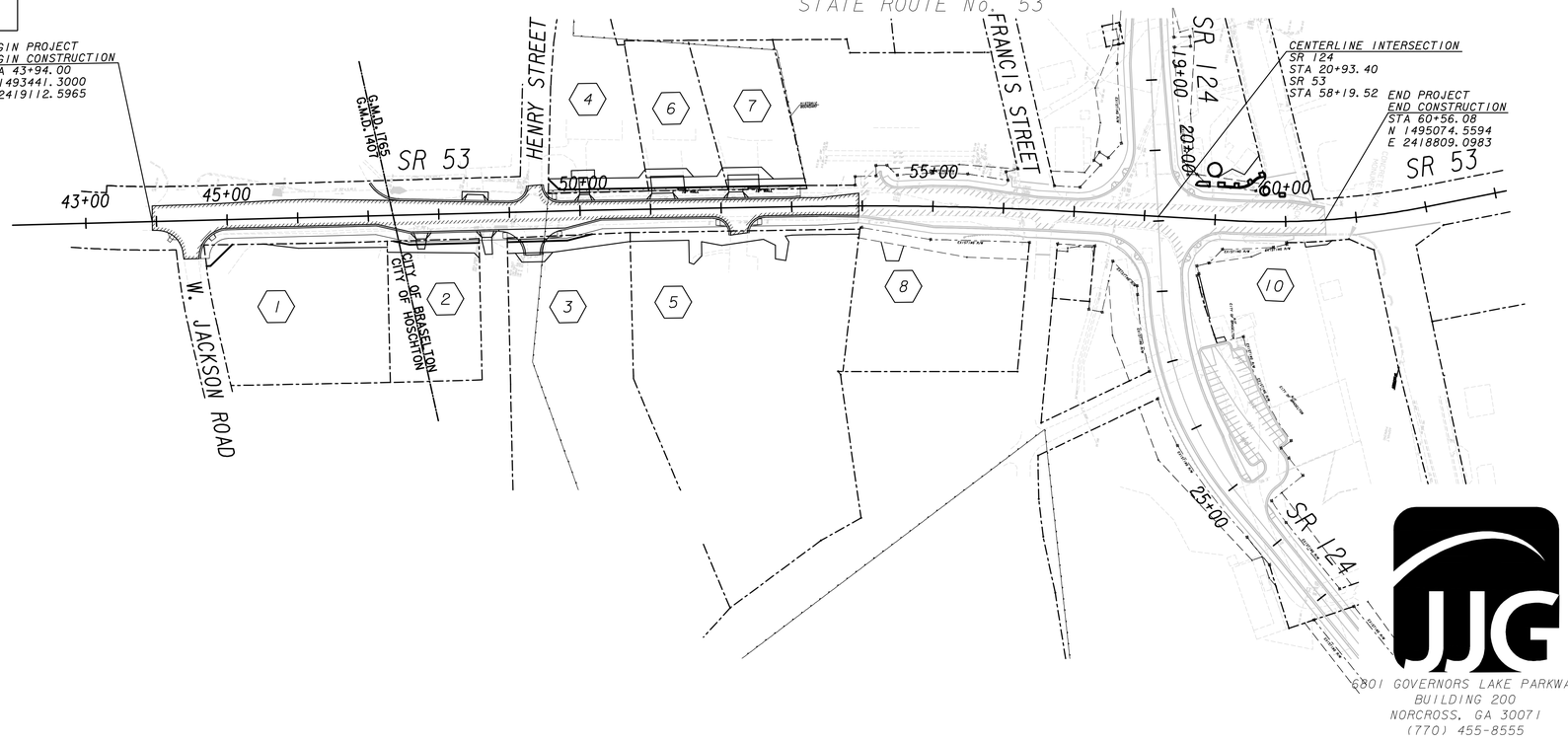
Georgia D.O.T. P.I. No. 0009097
FEDERAL ROUTE No. N/A
STATE ROUTE No. 53



LOCATION SKETCH

NOTE: THE CO-ORDINATES LISTED ARE WEST ZONE GRID CO-ORDINATES BASED ON THE GA. STATE PLANE CO-ORDINATE SYSTEM OF 1985.
HORIZONTAL DATUM : NAD 83/94 MARN
VERTICAL DATUM : NAVD 1988

MIDPOINT COORDINATE
STATION 52+25.04
N 1494254.7681
E 2418942.6301



GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1" = 100'

THIS PROJECT IS LOCATED 100% IN JACKSON COUNTY AND CONGRESSIONAL DISTRICT 10.

NOTE: THESE PLANS ARE IN ENGLISH UNITS

'I certify that this Erosion, Sedimentation and Pollution Control plan has been prepared in accordance with part IV, of the General NPDES Permit No. GAR 100002.'

'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) published by the State Soil and Water Conservation Commission as of January 1of the year in which the land disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of 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.'

'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 other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgement, 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 a specific identified un-sampled receiving water.'

'I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the certifed personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.'

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

PLANS PREPARED BY

JACOBS JJG

UNDER THE SUPERVISION OF

BRAD JONES. LA

RECOMMENDED FOR APPROVAL BY: _____
STATE DESIGN ENGINEER

JJG
6301 GOVERNORS LAKE PARKWAY
BUILDING 200
NORCROSS, GA 30071
(770) 455-8555

PLANS COMPLETED DATE: 11/03/10

REVISION DATES:

DATE	SHEET NO.	REQUESTED BY	SIGNATURE/CERT. NO.

REVISED AUGUST 2008

ESPCP GENERAL NOTES:

The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to, 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 (ESPCP) is provided by the Department. It 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 in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract.

The Contractor, the Certified Design Professional and the WECS shall carefully evaluate this plan prior to commencing land disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC level-II-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 greater than 14 days shall be stabilized with mulch or temporary seeding." - However, the Department typically requires disturbed areas to be stabilized every 7 days. The construction documents, special provisions, or specifications may require mulching more often than 7 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's 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.

This project consists of streetscape enhancements and road improvements on SR 53 and at the intersection of SR 53 and SR 124 in downtown Braselton. The existing pavement shall be milled and overlaid, and landscaping structures, curb & gutter and sidewalk, and walls shall be constructed.

The initial BMP's of this project shall be perimeter fencing around the project limits and check dams for the existing ditches. The intermediate BMP's shall consist of silt fence, inlet sediment traps, temporary grassing, and mulching. The final BMP's shall consist of permanent grassing.

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 materials 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 action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with 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 an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by 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 and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and the in the selection of permanent vegetation and fertilizers.

POST-CONSTRUCTION BMP'S

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project will consist of vegetation, and vegetated swales/ditches where practical. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique, 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 or slopes. The J-Hooks shall be spaced in accordance with the Typical Location Details for silt fences/baled straw. Spacing for 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 three (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 161 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 Department 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 by the contract documents and the 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-refundable deducations as specified in the contract documents.

By agreement with Georgia EPD, the Department's Construction Project Engineer will be responsible for the 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, Department 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 bag or shall be treated equivalenty with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of their pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit utilizing by a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's 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 the BMPs specified in this table.

Outfall I.D.	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (Cu.Yd)	Total Storage Volume Provided (Cu.Yd)	Check Dam		J-Hooks		Sediment Basins	
					# of Devices	Total Volume	# of Devices	Total Volume	# of Ponds	Total Volume
A-1	1.51	0.34	101.17	110	--	--	25	110	--	--
B-1	1.03	0.41	69.01	88	--	--	20	88	--	--

In order to prevent runoff from bypassing inlet sediment traps, a temporary berm shall be installed on the downstream side of all inlet sediment traps that are not located in a low point or an excavated sump. Temporary berms, when necessary, shall be a minimum of 18" high and constructed in a manner that ensures stormwater does not bypass the inlet. The contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

DISCHARGES INTO, OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired Stream Segment that has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macro Invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runnoff).

The following is a summary of project outfalls within 1 mile and within the watershed of an Identified Impaired Stream Segment that has been listed for criteria violated, "Bio F" (Impaired Fish Community) and/or "Bio M" (Impaired Macro Invertebrate Community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

Outfall Location(s)	Basin Name	Reach Name	Location of the Impaired stream segment as Indicated in the 305b/303d list	Criteria Violated (Bio F or Bio M)	Potential Cause (NP or UR)	Numeric waste load allocation for sediment*
N/A	N/A	N/A	N/A	N/A	N/A	N/A

* If the TMDL Implementation Plan establishes a specific numeric waste load allocation that applies to the project discharge(s) to the Impaired Stream Segment, then the Certified Design Professional must incorporate that allocation into the Erosion, Sedimentation and Pollution Control Plan and Implement all necessary measures to meet that allocation.

STREAM BUFFER ENCROACHMENT

Stream Buffers are not impacted by this project.

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

ESPC GENERAL NOTES

SR 53 STREETSCAPE

DRAWING No. 51-01

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 projects drainage area maps, hydrology and hydraulic studies, construction plans and erosion sedimentation and pollution control plans, it has been determined that the increase in turbidity at the specified locations will be representative of the increase in turbidity for all waters leaving the site. Approved primary and alternate representative monitoring sites are identified in the table:

Monitoring site	Primary or Alternate Site	Location (Sta. and Side)	Name of Receiving water.	Applicable construction stage for monitoring	Sampling Type (Outfall or Receiving Water)	Drainage Area (For the receiving water)	Project Site Size Area	Warm or Cold water Stream	Appendix B NTU value (outfall Monitoring Only)	Allowable NTU Increase (For Receiving Water)	Location Description
1.	Primary	SR 53 - 57+42, 115' RT	Indian Creek	N/A	Outfall	65.97 AC	2.27 AC	N/A	50	N/A	Existing 4' x 3' box culvert outlet
2.											

(According to the EPD, additional monitoring sites may be required depending on significant changes in typical sections)

The primary site specified should be used as the initial sampling location. The alternate sampling sites may be used if additional sampling is required and/or if the primary sampling site is no longer located within the active phase of construction.

MONITORING SAMPLING METHODS & PROCEDURES

See Special Provision 167 and other contract documents for Monitoring Sampling Methods and Procedures.

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 this site. In accordance with standard Specification 107 - Legal Regulations and Responsibility to the Public, only the discharge "chute" utilized in portland cement concrete delivery may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travel way, including shoulders, for a wash/pit area. The pit shall be large enough to store all wash-down water without overtopping 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 smoothed out. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down water pit location that includes the following: (1) the pit is located away from a storm drain, stream or river, (2) the pit is accessible to the vehicle being used for wash-down, (3) the pit has enough volume for wash-down water, and (4) make sure you have permission 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 those 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."

24 HOUR CONTACT:

Name

Phone Number

Contractor shall complete the information in this box.

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
ESPC GENERAL NOTES
SR 53 STREETSCAPE
DRAWING No. 51-02

gray
%REF05%
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%REF03%
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%REF08%
%REF09%
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%REF07%
%REF00%
%REF15%
%REF14%
%REF13%
%REF12%
%REF11%

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD:

Project Name: Eastern Connector from Buena Vista Rd to Chattsworth Rd Address: Columbus, GA Muscogee County

City/County: Columbus, GA Muscogee County Date on Plans:

Plan Page #	Included Y/N		TO BE SHOWN ON ES&PC PLAN
83	Y	1.	The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
80	Y	2.	Level II certification number issued by the Commission, signature and seal of the certified design professional.
82	Y	3.	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
82	Y	4.	Provide name, address and phone number of primary permittee.
83	Y	5.	Note total and disturbed acreage of the project or phase under construction.
	N/A	6.	Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.
80	Y	7.	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
$ERO1-$ERO6	Y	8.	Graphic scale and north arrow.
	N/A	9.	Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours:	USGS 1":2000' Topographical Sheets
Proposed Contours:	1":400' Centerline Profile

90	Y	10.	Delineation and acreage of contributing drainage basins on the project site.
97	Y	11.	Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
	N/A	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.
82	Y	13.	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
90	Y	14.	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
81	Y	15.	Soil series for the project site and their delineation.
90	Y	16.	Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
	N/A	17.	Any construction activity which discharges storm water into an impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III.C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.
	N/A	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 submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.
97	Y	19.	Delineate on-site drainage and off-site watersheds using USGS 1":2000' topographical sheets.
80	Y	20.	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
$ERO1-$ERO6	Y	21.	The limits of disturbance for each phase of construction.
82	Y	22.	Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted 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 provided. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls.
	N/A	23.	Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
83	Y	24.	Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust.
82	Y	25.	BMPs 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.
	N/A	26.	Provide BMPs for the remediation of all petroleum spills and leaks.
$ERO1-$ERO6	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.
83	Y	28.	Description of the nature of construction activity.
83	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 BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs.
83	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 BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
83	Y	31.	Description of the practices that will be used to reduce the pollutants in storm water discharges.
83	Y	32.	Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.
80	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 15 of the permit.
80	Y	34.	Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on page 14 of the permit.
80	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.
90	Y	36.	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
	N/A	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 variances and permits.
80	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 BMPs within 7 days after installation.
83	Y	39.	Indication that amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.
83	Y	40.	Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
83	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.
82	Y	42.	Provide complete requirements of inspections and record keeping by the primary permittee.
82	Y	43.	Provide complete requirements of sampling frequency and reporting of sampling results.
82	Y	44.	Provide complete details for retention of records as per Part IV.F. of the permit.
82	Y	45.	Description of analytical methods to be used to collect and analyze the samples from each location.
97	Y	46.	Appendix B rationale for outfall sampling points where applicable.
81	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.'**
81	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.'**
81	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.'**
95-96	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.
	N/A	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 geographic region of Georgia.

Effective January 1, 2009

TOTAL DISTURBED AREA: 0.67 AC
TOTAL SITE AREA: 2.85 AC

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
ESPC GENERAL NOTES
SR 53 STREETSCAPE

DRAWING NO. 51-03

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSTEE-0009-00(097)	83	99

11/3/2010
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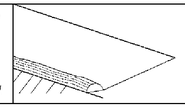
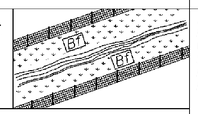
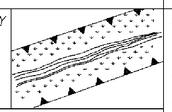
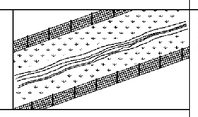
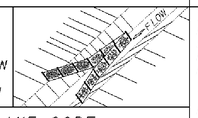
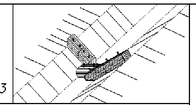
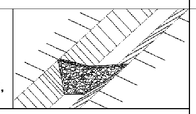
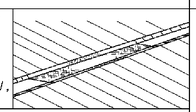
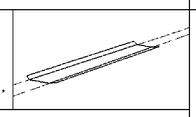
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Be	EARTH BERM SECTION 161 LINE CODE		THIS IS A TEMPORARY EARTH BERM CONSTRUCTED AT THE EDGE OF THE EMBANKMENT DURING THE GRADING OPERATION. THIS BERM WILL PREVENT SLOPE EROSION AND DIRECT RUNOFF TO A DOWN DRAIN "Dn" OR CATCHMENT AREA. THIS WILL BE USED ON ALL GRADING PROJECTS. THIS ITEM IS TO BE USED ALONG THE TOP OF HIGH FILL SECTIONS TO DIRECT RUNOFF INTO THE TEMPORARY SLOPE DRAINS.
	Bf	BUFFER ZONE SYMBOL Bf		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. THE BOUNDARIES OF THESE AREAS ARE BE DELINEATED BY ORANGE BARRIER FENCE.
	ESA	ENVIRONMENTALLY SENSITIVE AREA LINE CODE ESA-25'(OR 50')STREAM BUFFER, ETC.		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.
		ORANGE BARRIER FENCE LINE CODE ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ESA AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
	Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL SECTION 171 LINE CODE Cd-F		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-24b FOR SPACING REQUIREMENT. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS. IF THIS ITEM IS USED IN AN AREA WITHOUT A SEDIMENT BASIN CONSIDERATION SHOULD BE GIVEN TO USING TWO OR MORE ROCK FILTER DAMS NEAR THE DISCHARGE POINT.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Cd-Hb	HAYBALE CHECK DAM SECTION 163 LINE CODE Cd-Hb		HAYBALE CHECK DAMS ARE RECOMMENDED FOR DRAINAGE AREA LESS THAN ONE ACRE.
	Cd-S	STONE OR SANDBAG CHECK DAM SECTION 163, 603 LINE CODE Cd-S		STONE CHECK DAMS ARE USED IN ROADWAY DITCHES. GEOTEXITLE UNDERLINER SHALL BE USED WHEN PLACING STONE CHECK DAMS.
	Ch-Br	BITUMINOUS TREATED ROVING SECTION 161, 715 LINE CODE Ch-Br		THIS ITEM CONSISTS OF PLACING ONE OR MORE LAYERS OF BITUMINOUS TREATED ROVING ON A PLANTED AREA, IN CHANNELS TO STABILIZE VEGETATION AND PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE PLACED TO PROTECT THE DITCH FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT DITCH PROTECTION PROGRAM. ADDITITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
	Ch-C	CHANNEL CONCRETE SECTION 161, 441 LINE CODE Ch-C		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 "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS

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".

BY	DATE	REVISION
GLO	11-13-07	REV. Be, ADDED Bf, ESA,
GLO	1-9-07	CBF AND Ch-F
BY		REVISED TITLE BLOCK

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND
AND UNIFORM CODE SHEET
SHEET 1 OF 6

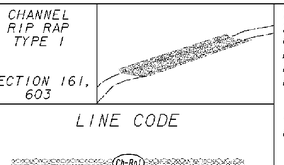
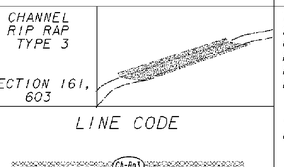
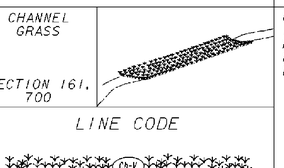
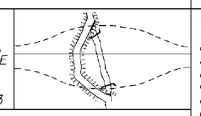
NO SCALE JANUARY 2007

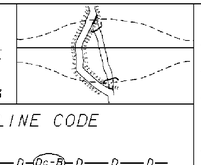
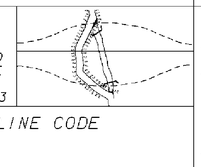
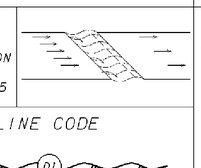
NUMBER EC-L1 DRAWING No. 52-1

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
EROSION CONTROL LEGEND
SR 53 STREETSCAPE
DRAWING No. 52-01

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Ch-Rp1	CHANNEL RIP RAP TYPE 1 SECTION 161, 603 LINE CODE		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 Sdi-C, Rdc OR Sg. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
	Ch-Rp3	CHANNEL RIP RAP TYPE 3 SECTION 161, 603 LINE CODE		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 Sdi-C, Rdc OR Sg. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS
	Ch-V	CHANNEL GRASS SECTION 161, 700 LINE CODE		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.
	Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL LINE CODE		A STONE STABILIZED PAD LOCATED AT ANY POINT WHERE TRAFFIC WILL BE EXITING 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.
	Dc-A	DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163 LINE CODE		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 Sdi-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 0-2.5 fps. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Dc-B	DIVERSION CHANNEL GEOTEXTILE ONLY SECTION163 LINE CODE		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 Sdi-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.
	Dc-C	DIVERSION CHANNEL RIPRAP AND GEOTEXTILE SECTION 163 LINE CODE		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 Sdi-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.
	Di	DIVERSION CONSTRUCTION DETAIL SECTION 205 LINE CODE		AN EARTH CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE, CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE AND TO INTERCEPT RUNOFF AND DIRECT THE RUNOFF TO A STABLE OUTLET. SEE CHAPTHER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.
	Dnl	DOWN DRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL SECTION 163 LINE CODE		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 A 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, SUMP 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'.

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".

DATE	REVISION	BY
11-3-07	REVISED ORDER	G.O
4-9-07	REVISED TITLE BLOCK	G.O

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 2 OF 6

NO SCALE JANUARY 2007

NUMBER EC-L2

DRAWING No. 52-2

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

EROSION CONTROL LEGEND

SR 53 STREETSCAPE

DRAWING No. 52-02

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441	LINE CODE (Dn2-A)	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).
Dn2-B	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441	LINE CODE (Dn2-B)	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 SAFETLY 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).
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD. 9017J TP1, D-26 TP1 SECTION 576, 577.	LINE CODE (Dn2-1)	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).
Dn2-2	PERMANENT DOWN DRAIN STRUCTURE GA. STD. 9017J TP2, D-26 TP2 SECTION 576, 577.	LINE CODE (Dn2-2)	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).
Ds1	MULCH SECTION 163	LINE CODE (Ds1)	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.

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Ds2	TEMPORARY GRASSING SECTION 163	LINE CODE (Ds2)	THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS.
Fr	FILTER RING CONSTRUCTION DETAIL	4 FT. MIN. LINE CODE (Fr)	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.
Mb	EROSION CONTROL MATS CONSTRUCTION DETAIL SECTION 716	PATTERN (Mb)	ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50' OF ALL CROSS DRAINS AND CULVERTS.
Ps	PERMANENT SOIL REINFORCING MAT CONSTRUCTION DETAIL SECTION 710	LINE CODE (Ps)	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG TERM PROTECTION. (THIS IS CALLED "W1" IN MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)

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".

DELETED Fa. REVISED ORDER 1-13-07
REVISED TITLE BLOCK 1-9-07
REVISION DATE
GLO GLO BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND
AND UNIFORM CODE SHEET
SHEET 3 OF 6

NO SCALE JANUARY 2007

NUMBER EC-L3

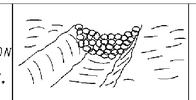
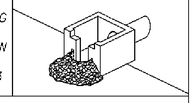
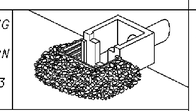
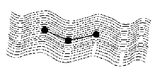
DRAWING No. 52-3

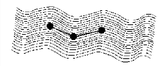
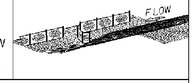
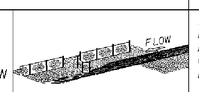
NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
EROSION CONTROL LEGEND
SR 53 STREETSCAPE

DRAWING No. 52-03

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL SECTION 163. 603. LINE CODE		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 GEOTEXITLE UNDERLINER.
Rp	RIPRAP SECTION 603 PATTERN		RIP RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND END ROLLS. RIP RAP, TYPE I SHOULD BE PLACED ON TOP OF A GEOTEXITLE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS.
Ri-P	RETROFITTING CONSTRUCTION DETAIL SECTION 163 LINE CODE		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 DISTRUBED AREA. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
Ri-B	RETROFITTING CONSTRUCTION DETAIL SECTION 163 LINE CODE		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 DISTRUBED AREA. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
Sb-F	SILT RETENTION BARRIER FLOATING SECTION 170 FLOATING LINE CODE		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.

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Sb-S	SILT RETENTION BARRIER STAKED SECTION 170 STAKED LINE CODE		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 "Chl". 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.
Sdi-A	SILT FENCE TYPE A CONSTRUCTION DETAIL SECTION 171 LINE CODE		USED ALONG THE TOE OF FILLS OVER 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.
Sdi-B	SILT FENCE TYPE B CONSTRUCTION DETAIL SECTION 171 LINE CODE		TYPE B MAY BE USED IN LIEU OF BALED STRAW AND AT THE TOE OF FILLS LESS THAN 10 FEET HIGH.
Sdi-C	SILT FENCE TYPE C CONSTRUCTION DETAIL SECTION 171 LINE CODE		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.

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".

DATE	REVISION
1-10-07	REV. Sb-F, Sb-S, Sdi-A,
1-29-07	Sdi-B AND Sdi-C.
	REVISED TITLE BLOCK
GLO	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND
AND UNIFORM CODE SHEET
SHEET 4 OF 6

NO SCALE JANUARY 2007

NUMBER EC-L4

DRAWING No. 52-4

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

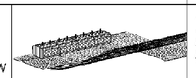
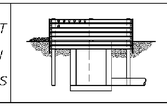
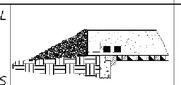
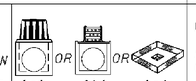
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

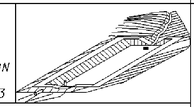
OFFICE:
EROSION CONTROL LEGEND

SR 53 STREETSCAPE

DRAWING No. 52-04

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Sd1-Bb	BRUSH BARRIER CONSTRUCTION DETAIL	 LINE CODE * * * Sd1-Bb * * *	THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT OF WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPERATE PAYMENT SHALL BE MADE.
Sd1-Hb	SEDIMENT BARRIER CONSTRUCTION DETAIL SECTION 163	 LINE CODE — s — s — s — Sd1-Hb — s — s — s —	A BARRIER OF BALED STRAW IS USED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT IS USED IN DITCHES AS DITCH CHECKS OR ALONG THE TOE OF SLOPE OR RIGHT OF WAY IN FILLS LESS THAN 10 FEET HIGH. THE BALES SHOULD RUN PARALLEL TO THE SILT YIELDING AREA UNTIL THE TOP OF THE BALE IS 6 INCHES LOWER THAN THE GROUND ELEVATION OF THE BEGINNING BALE. THEY SHOULD THEN TURN INTO THE FILL WITH A LOW POINT FOR THE WATER TO DRAIN OVER THE BALE. IN DITCHES, BALED STRAW SHOULD BE PERPENDICULAR TO THE FLOW. USED FOR SLOPES LESS THAN 1%, USE 100' SPACING. BALED STRAW SHALL BE STAKED SECURELY TO THE GROUND.
Sd2-B	BAFFLE BOX INLET SEDIMENT TRAP CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163	 LINE CODE Sd2-B	USED FOR INLETS RECEIVING RUNOFF WITH A HIGHER VOLUME OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A 0-7cfs.
Sd2-Bg	BLOCK & GRAVEL DROP INLET PROTECTION CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163	 LINE CODE Sd2-Bg	USED FOR INLET PROTECTION WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A 0-5-7 cfs.
Sd2-F	INLET SEDIMENT TRAP CONSTRUCTION DETAILS SECTION 163	 (a) OR (b) OR (c) LINE CODE Sd2-F	(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5% THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECIEVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOWS THAT RANGE FROM 0-0-4 cfs.

CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
Sd2-G	GRAVEL DROP INLET PROTECTION CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163	 LINE CODE Sd2-G	USED FOR INLET PROTECTION WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A 0-3-5 cfs.
Sd3	SEDIMENT BASIN CONSTRUCTION DETAIL SECTION 163	 LINE CODE Sd3	A BASIN EXCAVATED OR AN AREA THAT IS DAMMED. THE BASIN IS DESIGNED TO HOLD A SEDIMENT LOAD OF 67 CUBIC YARDS OF VOLUME PER ACRE OF DRAINAGE AREA. IT IS USED FOR DRAINAGE AREAS OF 3 TO 5 ACRES OR WHERE A ROADWAY CUTS OR FILLS EXCEEDS 1,000 FEET IN LENGTH. IF A SEDIMENT BASIN IS USED ON AN AREA LARGER THAN 5 ACRES SPECIAL CONSIDERATION FOR CLEAN OUT IS REQUIRED. SUFFICIENT RIGHT OF WAY OR PERMANENT EASEMENT NEEDED FOR THE BASIN AND ACCESS FOR CLEAN OUT VIA A ROUTE WITH 3:1 SLOPES OR LESS. SEDIMENT BASINS SHOULD ALSO BE CONSIDERED WHERE HIGH FILLS OVER 30 FEET DRAIN TO ONE LOCATION.
Sg-1 Sg-2 Sg-3	SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 FRONT VIEW LINE CODE Sg-1 Sg-2 Sg-3	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. Sg-1-TYPE 1: USED ON BOX CULVERTS Sg-2-TYPE 2: USED ON STRAIGHT HEADWALLS Sg-3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
Sr	STREAM CROSSING SECTION 161	 LINE CODE Sr	A TEMPORARY BRIDGE OR PIPE STRUCTURE PROTECTING A STREAM OR WATER COURSE FROM DAMAGE BY CONSTRUCTION EQUIPMENT. THIS AREA MUST BE COMPLETELY STABILIZED. THIS ITEM MUST BE DESIGNED ACCORDING TO CHAPTER 6 OF THE MANUAL FOR EROSION CONTROL IN GEORGIA FOR CONTRACTOR'S USE ONLY

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".

BY	REVISION	DATE
CLO	REV. Sg-1, Sg-2 AND Sg-3	11-13-07
CLO	REVISED TITLE BLOCK	1-9-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND
AND UNIFORM CODE SHEET
SHEET 5 OF 6

NO SCALE JANUARY 2007

NUMBER EC-L5

DRAWING No. 52-5

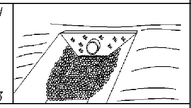
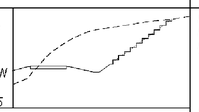
NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
EROSION CONTROL LEGEND
SR 53 STREETSCAPE

DRAWING No. 52-05

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	 LINE CODE St	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.
	St-RP	STORM DRAIN OUTLET PROTECTION SECTION 603	 PATTERN 	THIS ITEM IS ADDED TO "St" WHEN ADDITIONAL PROTECTION IS NEEDED. TYPE I 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 QUANTITIY DETERMINATION.
	Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL SECTION 205	 LINE CODE Su (LINE CODE Su IS SHOWN ON THE PLANS FOR SERRATED SLOPES WHERE SPECIFIED IN THE SOIL SURVEY.)	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 REQUIRTED 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.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION

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 6 OF 6

NO SCALE | NOV., 2007

DATE | REVISION | BY | NUMBER EC-L6 | DRAWING No. 52-6

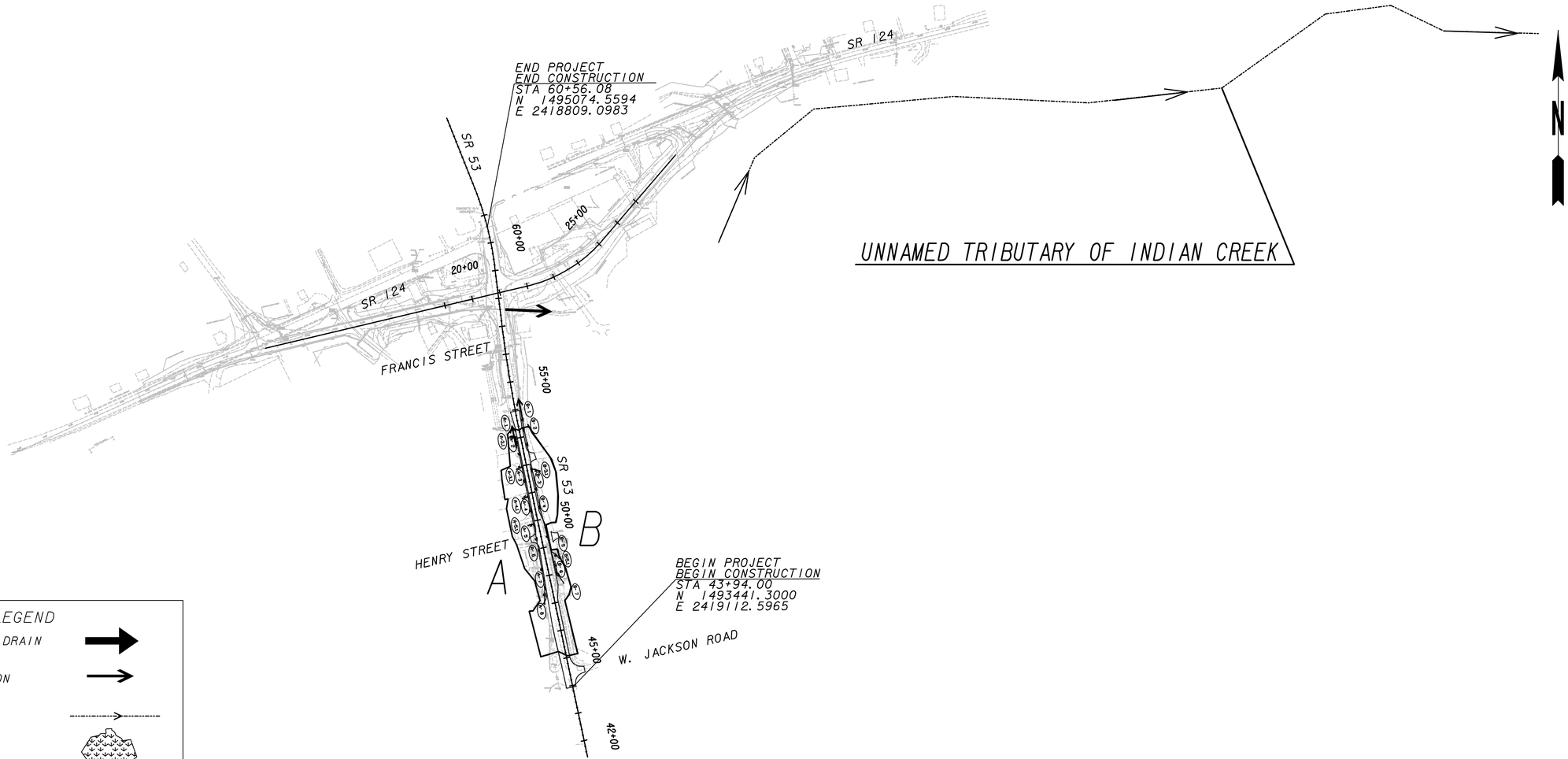
NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
EROSION CONTROL LEGEND
SR 53 STREETSCAPE

DRAWING No. 52-06

11/3/2010 3:26:18 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097ed01.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSTEE-0009-00(097)	90	99



LEGEND

PROPOSED CROSS DRAIN

OUTFALL LOCATION

STREAM

WETLANDS

OUTFALL STRUCTURE	DRAINAGE BASIN	DRAINAGE AREA	DISTURBED DRAINAGE AREA	℄ STRUCTURE STATION	ALIGNMENT	OUTFALL CULVERT SIZE	OUTFALL CULVERT SKEW	RECEIVING WATERS	OUTFALL CHANNEL SLOPE
EXIST. CULVERT	A & B	2.54	0.75	57+42	S.R. 53	4' X 3' (BOX CULVERT)	79.70°	INDIAN CREEK	1.00%

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 200 400 800

REVISION DATES

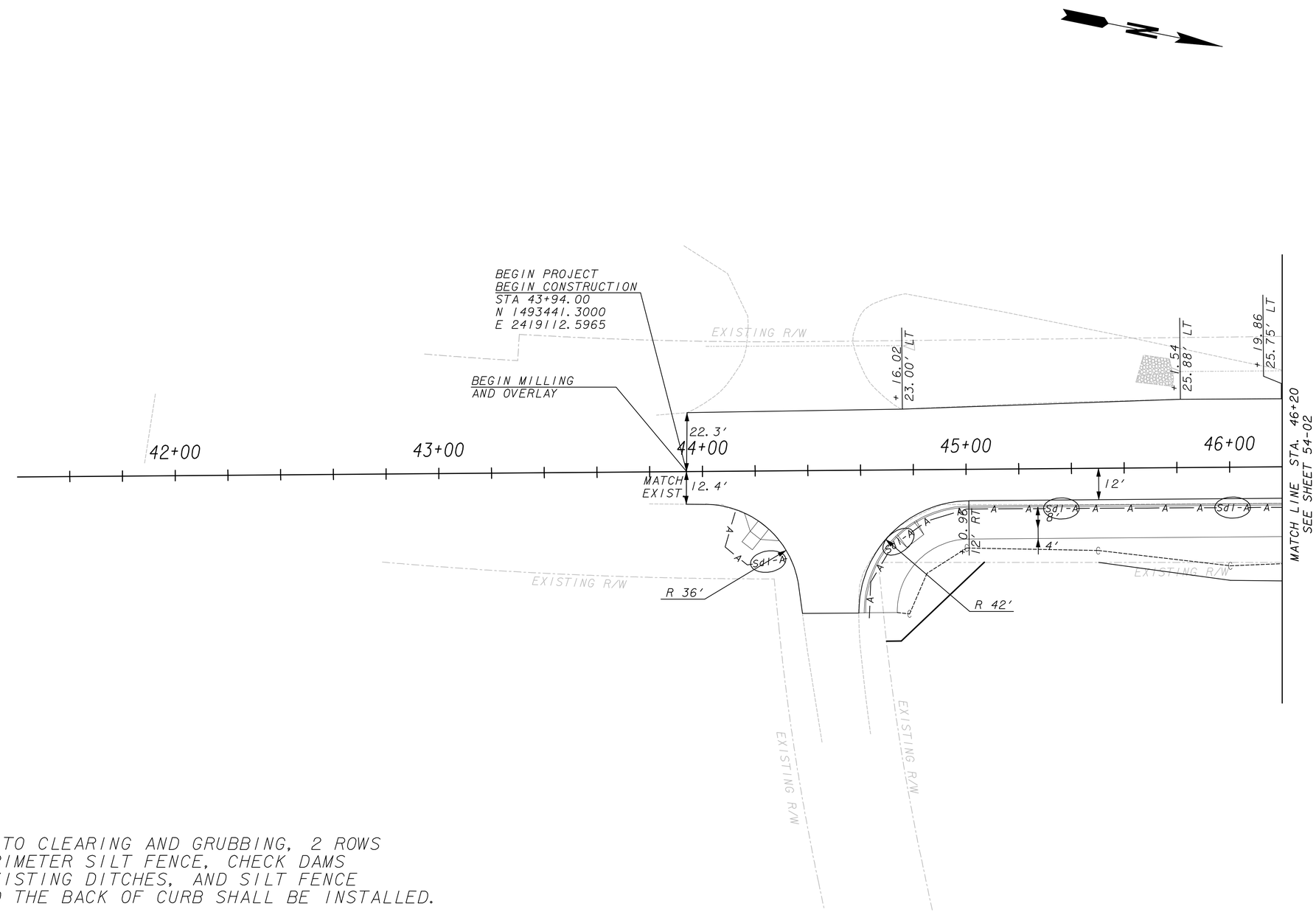
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

EROSION CONTROL DRAINAGE AREA MAP

SR 53 STREETSCAPE

DRAWING No. 53-01

11/3/2010 3:26:20 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097er01.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSTEE-0009-00(097)	91	99



NOTE: PRIOR TO CLEARING AND GRUBBING, 2 ROWS OF PERIMETER SILT FENCE, CHECK DAMS FOR EXISTING DITCHES, AND SILT FENCE BEHIND THE BACK OF CURB SHALL BE INSTALLED.

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

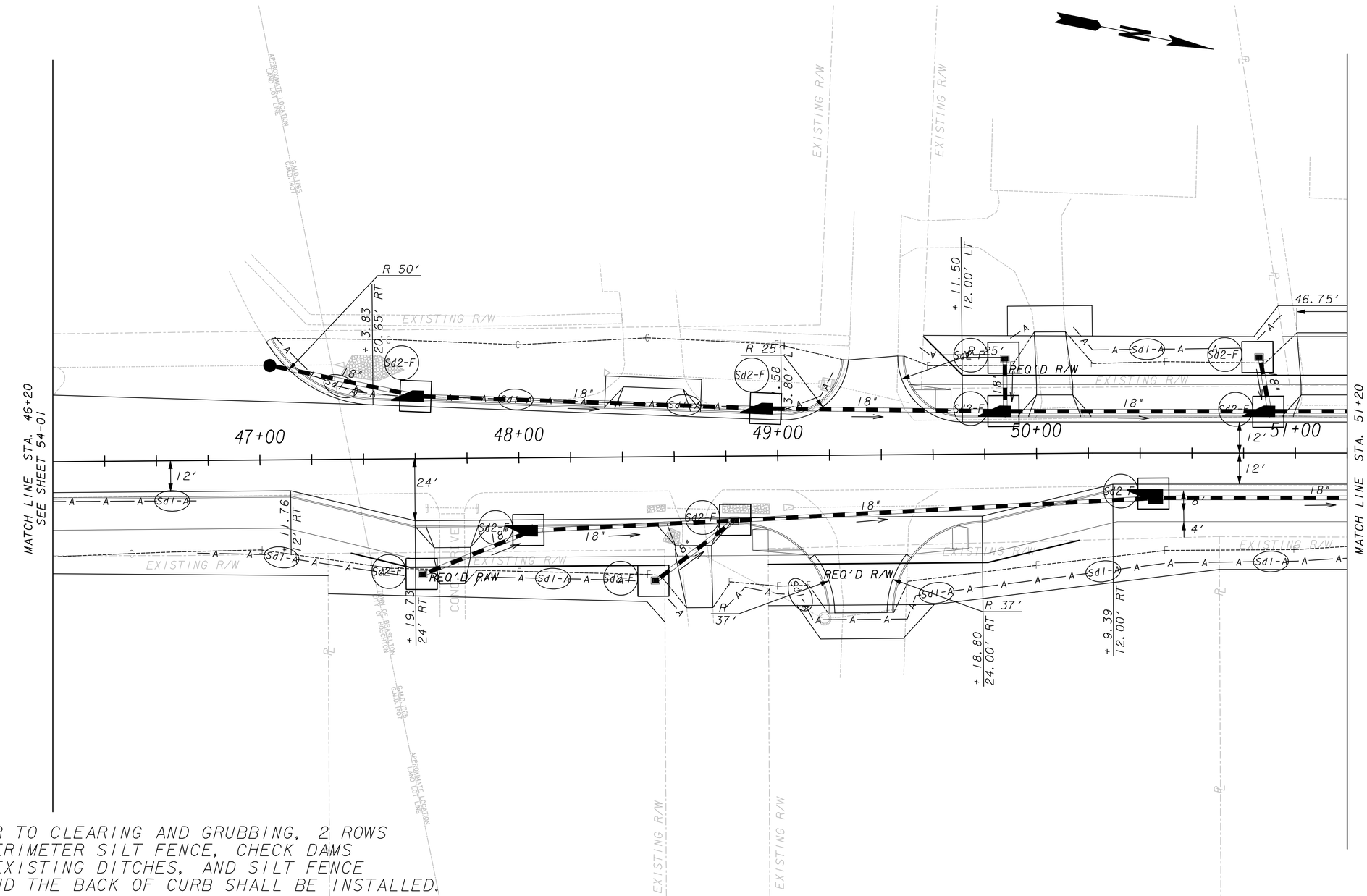
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

BMP LOCATION DETAILS

SR 53 STREETSCAPE

DRAWING No. 54-01

11/3/2010 3:26:20 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097er02.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSTEE-0009-00(097)	92	99



NOTE: PRIOR TO CLEARING AND GRUBBING, 2 ROWS OF PERIMETER SILT FENCE, CHECK DAMS FOR EXISTING DITCHES, AND SILT FENCE BEHIND THE BACK OF CURB SHALL BE INSTALLED.

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	REQUIRED R/W LINE
EASEMENT FOR CONSTR OF SLOPES	CONSTRUCTION LIMITS
EASEMENT FOR CONSTR OF DRIVES	R/W AND LIMIT OF ACCESS
	EXISTING R/W LINE
	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

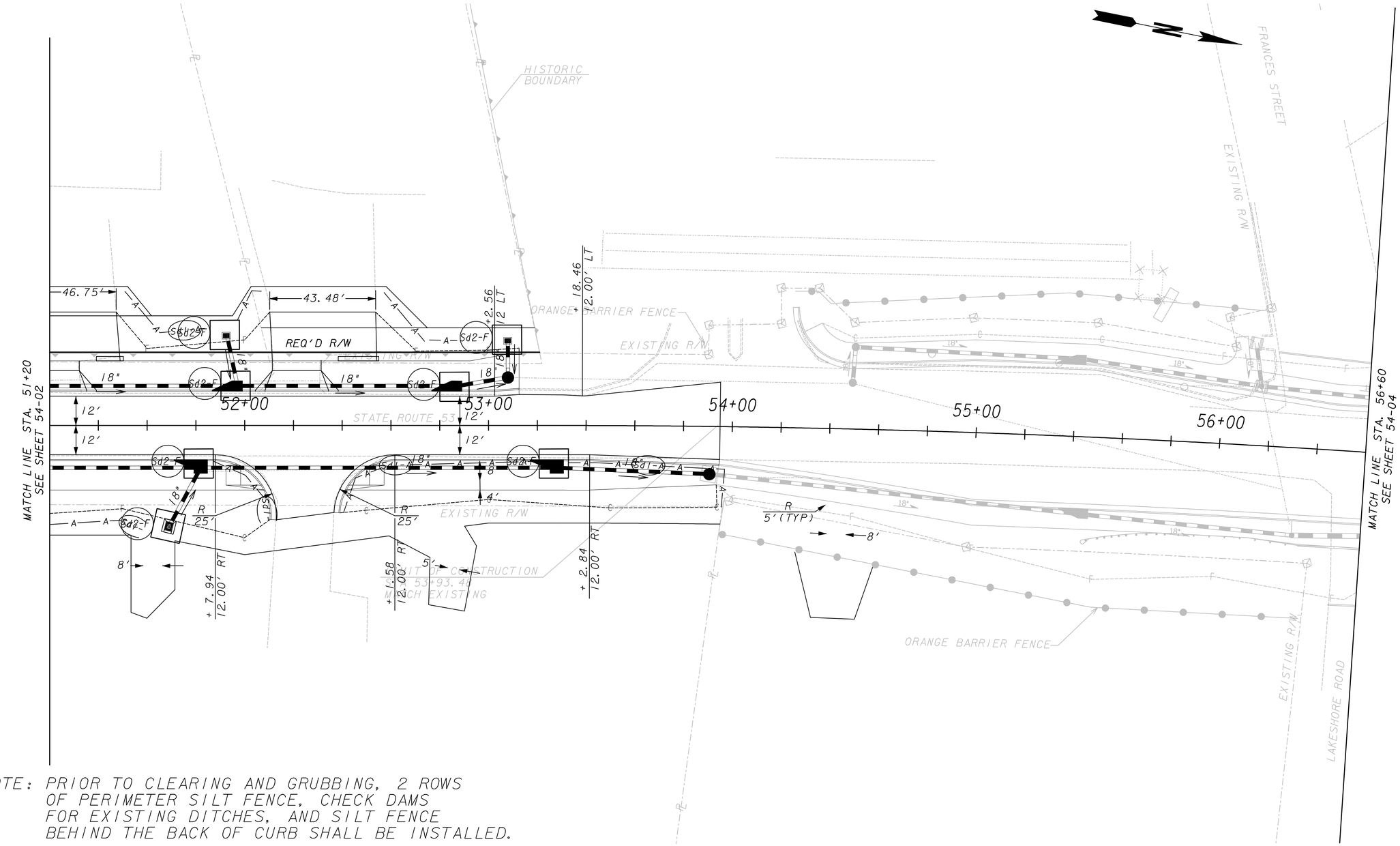
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

BMP LOCATION DETAILS

SR 53 STREETSCAPE

DRAWING No. 54-02

11/3/2010 3:26:21 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097er03.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			GA	CSTEE-0009-00(097)	93	99



NOTE: PRIOR TO CLEARING AND GRUBBING, 2 ROWS OF PERIMETER SILT FENCE, CHECK DAMS FOR EXISTING DITCHES, AND SILT FENCE BEHIND THE BACK OF CURB SHALL BE INSTALLED.

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	REQUIRED R/W LINE
EASEMENT FOR CONSTR OF SLOPES	CONSTRUCTION LIMITS
EASEMENT FOR CONSTR OF DRIVES	R/W AND LIMIT OF ACCESS
	EXISTING R/W LINE
	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES

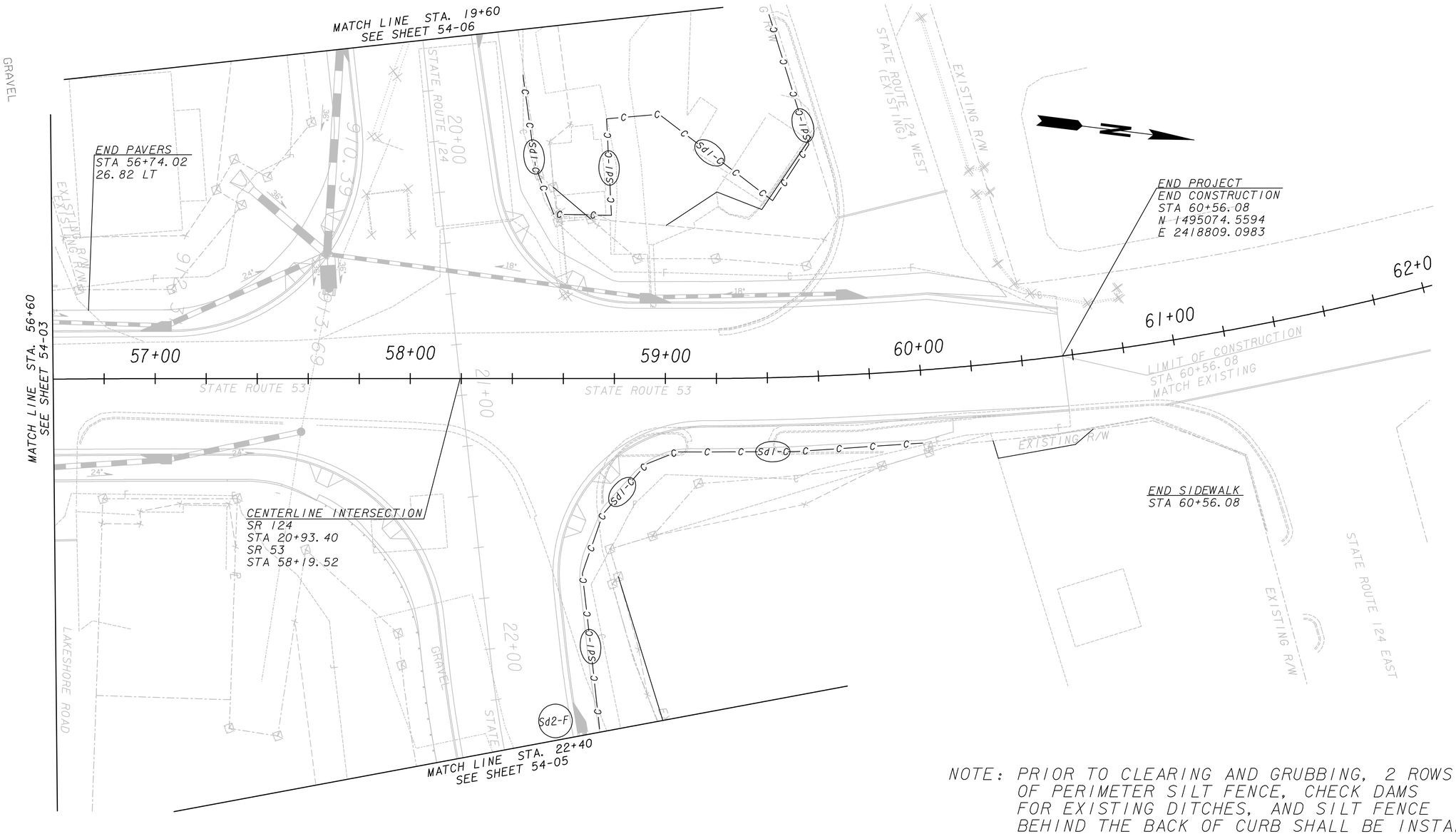
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

BMP LOCATION DETAILS

SR 53 STREETSCAPE

DRAWING No. 54-03

11/3/2010	3:26:22 PM	GDOTRoad	p:\02\02358\008\dgn\009097er04.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
brad.gray		ROAD.TBL		GA	CSTEE-0009-00(097)	94	99



NOTE: PRIOR TO CLEARING AND GRUBBING, 2 ROWS OF PERIMETER SILT FENCE, CHECK DAMS FOR EXISTING DITCHES, AND SILT FENCE BEHIND THE BACK OF CURB SHALL BE INSTALLED.

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
	REQUIRED R/W LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	CONSTRUCTION LIMITS
	R/W AND LIMIT OF ACCESS
EASEMENT FOR CONSTR OF SLOPES	EXISTING R/W LINE
EASEMENT FOR CONSTR OF DRIVES	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

BMP LOCATION DETAILS

SR 53 STREETSCAPE

DRAWING No. 54-04

11/3/2010 3:26:23 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097er05.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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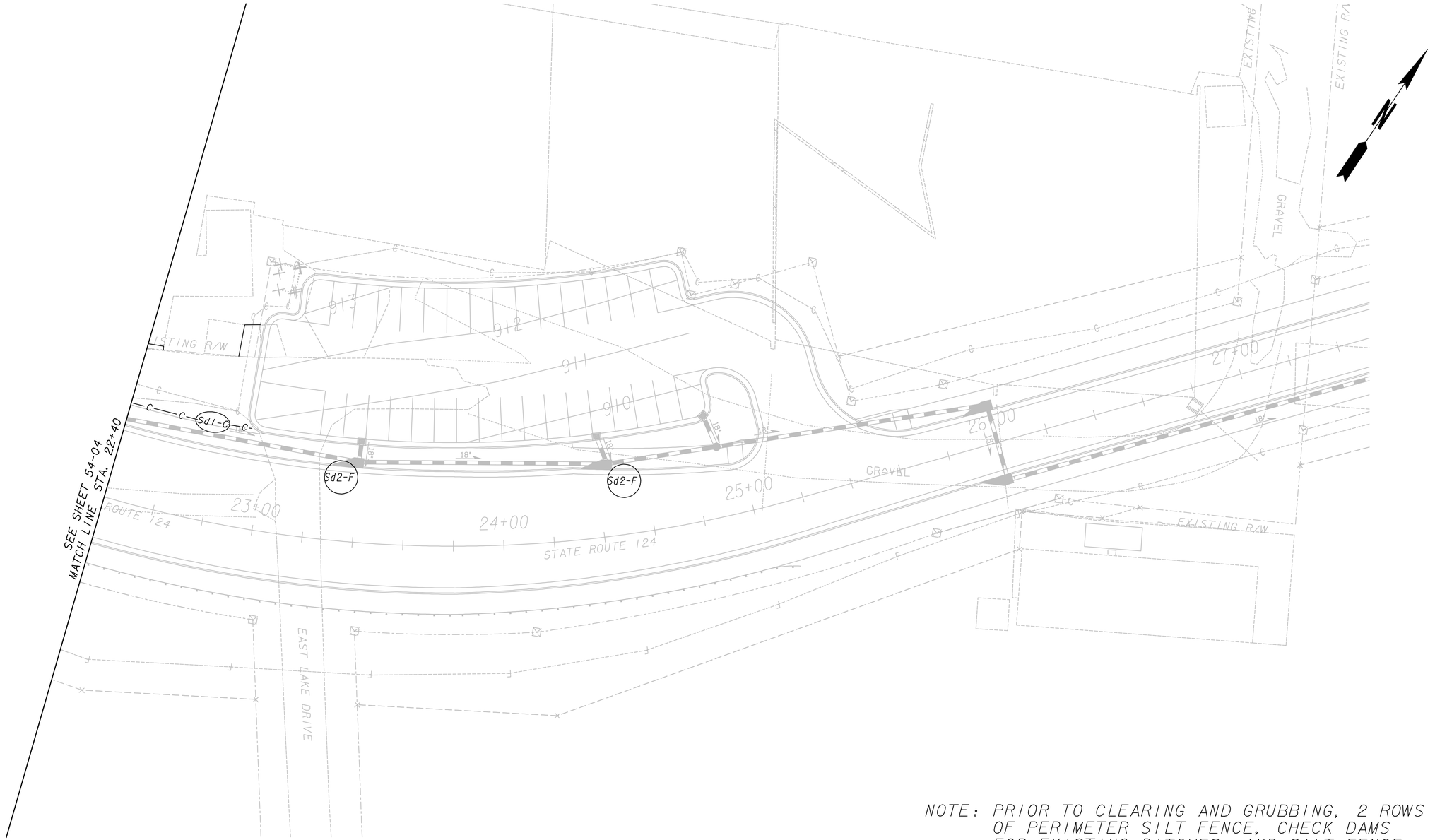

NOTE: PRIOR TO CLEARING AND GRUBBING, 2 ROWS OF PERIMETER SILT FENCE, CHECK DAMS FOR EXISTING DITCHES, AND SILT FENCE BEHIND THE BACK OF CURB SHALL BE INSTALLED.

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	REQUIRED R/W LINE
EASEMENT FOR CONSTR OF SLOPES	CONSTRUCTION LIMITS
EASEMENT FOR CONSTR OF DRIVES	R/W AND LIMIT OF ACCESS
	EXISTING R/W LINE
	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

BMP LOCATION DETAILS

SR 53 STREETSCAPE

DRAWING No. 54-05

11/3/2010 3:26:25 PM brad.gray	GDOTRoad ROAD.TBL	p:\02\02358\008\dgn\009097er06.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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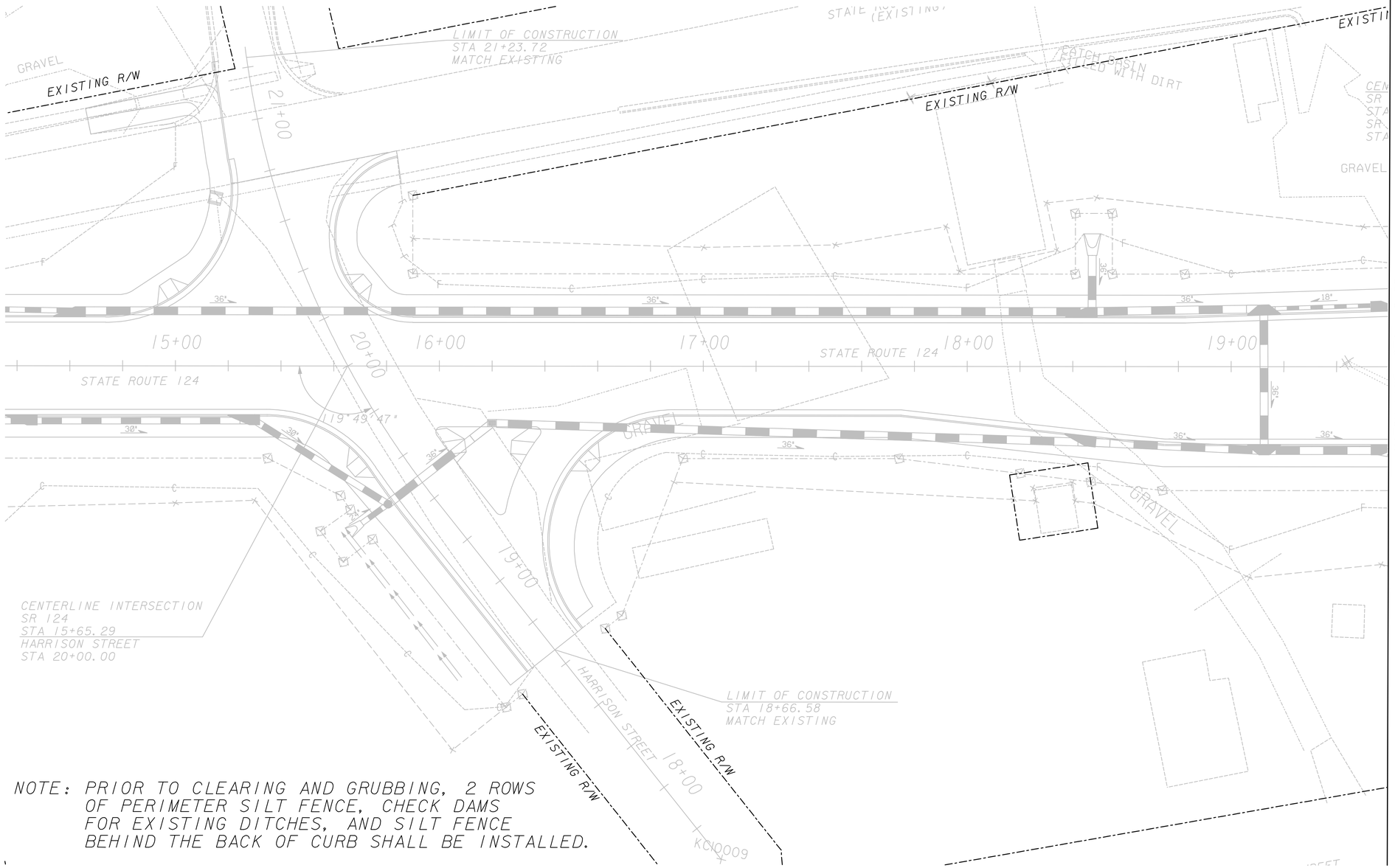


NOTE: PRIOR TO CLEARING AND GRUBBING, 2 ROWS OF PERIMETER SILT FENCE, CHECK DAMS FOR EXISTING DITCHES, AND SILT FENCE BEHIND THE BACK OF CURB SHALL BE INSTALLED.

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES	EXISTING PROPERTY LINE
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE	REQUIRED R/W LINE
EASEMENT FOR CONSTR OF SLOPES	CONSTRUCTION LIMITS
EASEMENT FOR CONSTR OF DRIVES	R/W AND LIMIT OF ACCESS
	EXISTING R/W LINE
	PAVEMENT OVERLAY

JJG

NOT RELEASED FOR CONSTRUCTION

SCALE IN FEET
0 20 40 80

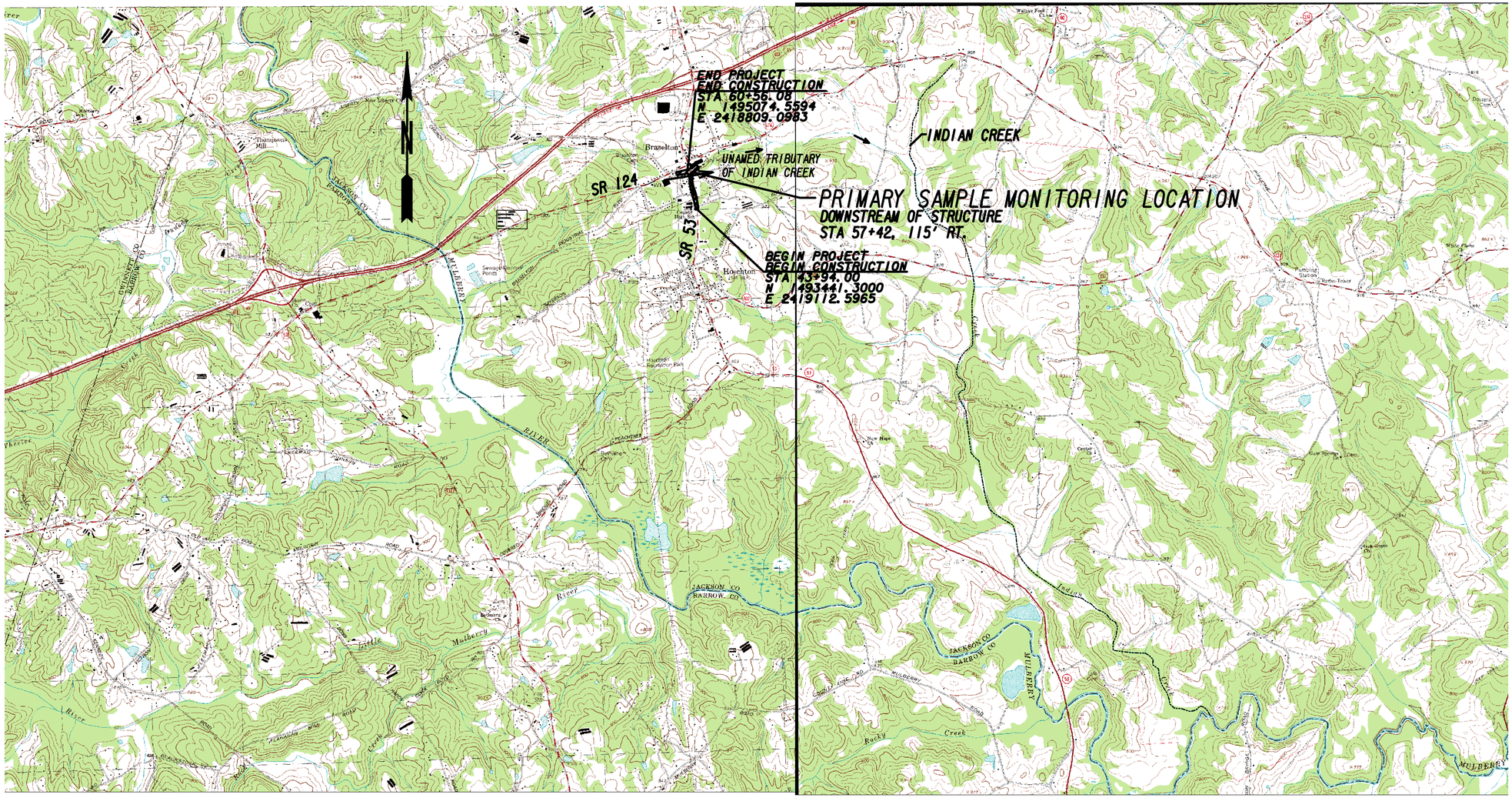
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:

BMP LOCATION DETAILS

SR 53 STREETSCAPE

DRAWING No. 54-06



NOT RELEASED
FOR CONSTRUCTION

SCALE IN FEET
0 2000 4000 8000

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

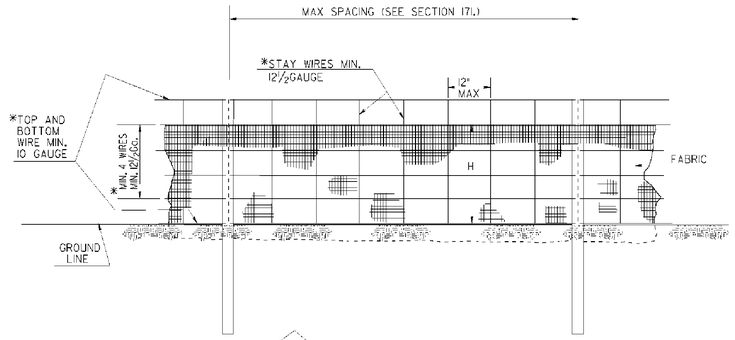
OFFICE:

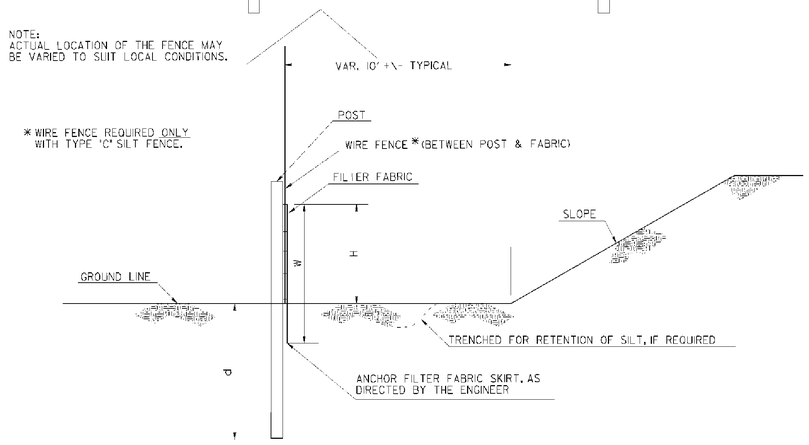
WATERSHED MAP
SITE MONITORING PLAN

SR 53 STREETSCAPE

DRAWING No.
55-01

GPLN





ELEVATION

TEMPORARY SILT FENCES ARE FOR USE WHERE IT HAS BEEN DETERMINED THAT BALED STRAW EROSION CHECKS ARE INADEQUATE OR THAT SILT FENCES CAN BE JUSTIFIED ON A COST EFFECTIVE BASIS.

TEMPORARY SILT FENCES ARE NOT TO BE CONFUSED WITH SILT RETENTION BARRIERS.

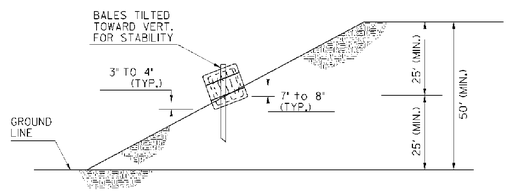
SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE "A"	4 FT.	2'-2"	1'-6"	3'-0"	WHERE FILL EXEEDS 10 FT. HEIGHT;
TYPE "B"	3 FT.	1'-4"±	1'-6"	1'-10"	WHERE FILL HEIGHTS ARE UNDER 10 FT.;
TYPE "C"	4 FT.	2'-2"	1'-6"	3'-0"	& AT BRIDGE END ROLLS, DITCH CHECKS, & AT GRADES OVER 8% AT 25 FT. SPACING.

(SEE SHEET 2 OF 2 FOR ADDITIONAL APPLICATIONS.)

BALED STRAW EROSION CHECK DETAILS

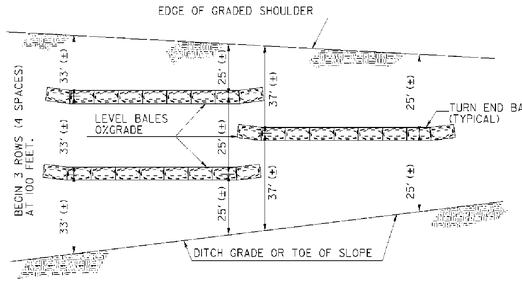
BALED STRAW ON FILL SLOPE



ELEVATION

(ONE ROW OF BALES SHOWN-2 OR MORE MAY BE SPECIFIED)

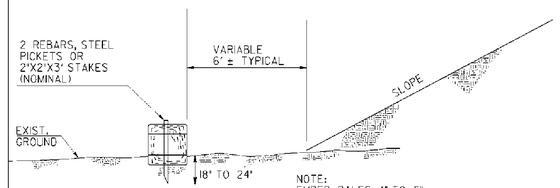
NOTE: FOR BALED STRAW OR SILT FENCE AT TOE OF SLOPE, SEE DETAILS AT LEFT OR RIGHT AND ALSO SHEET 2 OF 2.



LONGITUDINAL VIEW

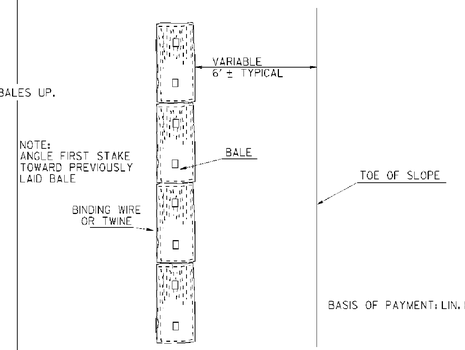
(DIMENSIONS ARE MEASURED VERTICALLY.)

BALED STRAW AT TOE OF SLOPE



ELEVATION

NOTE: THE 6' ± OFFSET MAY BE VARIED TO SUIT LOCAL CONDITIONS.



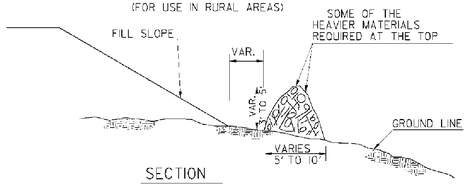
PLAN

NOTE: BALED STRAW IS USED IN TYPICAL RURAL AREAS WHERE FILLS ARE FROM 5 FT. TO 10 FT. HIGH, FOR DITCH CHECKS, AND AS SPECIFIED ELSEWHERE. (See Sh. 2 of 2)

SYNTHETIC HAY BALES OF TYPE WHICH HAVE BEEN CLASSIFIED AS "ACCEPTED" BY THE D.O.T. OFFICE OF MATERIALS & RESEARCH MAY BE USED AS AN ALTERNATE TO BALED STRAW AS APPROVED BY THE ENGINEER.

BRUSH BARRIER DETAILS

(FOR USE IN RURAL AREAS)



SECTION

NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.

FRONT VIEW

NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.

BY	REVISION	DATE
REV. & REDR.		9-01

TEMPORARY SILT FENCE
BALED STRAW EROSION CHECK
BRUSH BARRIER DETAILS

(SHEET 1 OF 2)

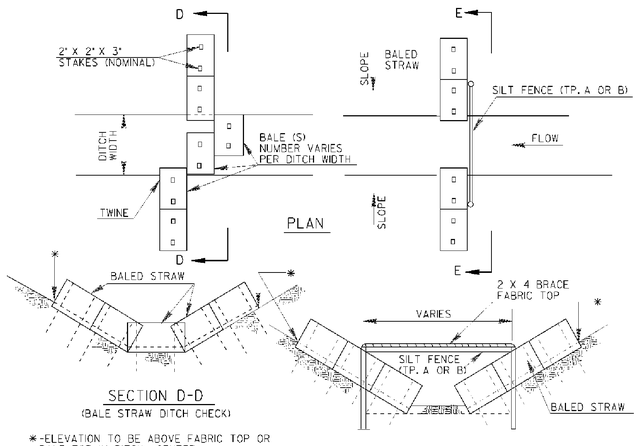
D-24(a)

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS
SR 53 STREETSCAPE
DRAWING No. 56-01

TYPICAL LOCATIONS IN DITCHES

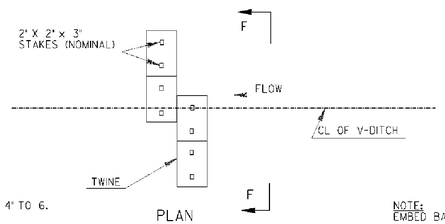


SECTION D-D
(BALE STRAW DITCH CHECK)

*-ELEVATION TO BE ABOVE FABRIC TOP OR BALE TOP IN DITCH CENTER.

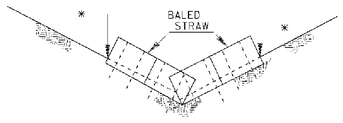
SECTION E-E
(SILT FENCE DITCH CHECK)

NOTE:
BALED STRAW DITCH CHECKS ARE FOR USE ON GRADES OF 1 PERCENT OR LESS AT SPACINGS OF 100 FEET + -.



NOTE:
EMBED BALES 4" TO 6.

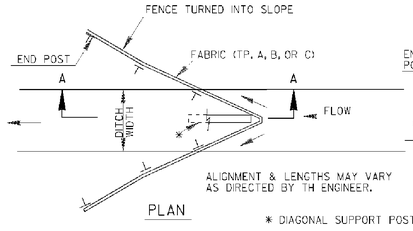
PLAN



SECTION F-F

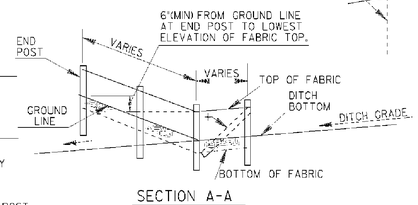
NOTE:
EMBED BALES 4" TO 6".

GRADE OF DITCH OR SLOPE	TYPE OF SILT FENCE	SPACING (METERS)
LESS THAN 1%	TYPE B	100' +-
1% TO 2%	TYPE A	100' +-
2% TO 3%	TYPE A	50' +-
3% TO 4%	TYPE C	50' +-
4% TO 5%	TYPE C	25' +-



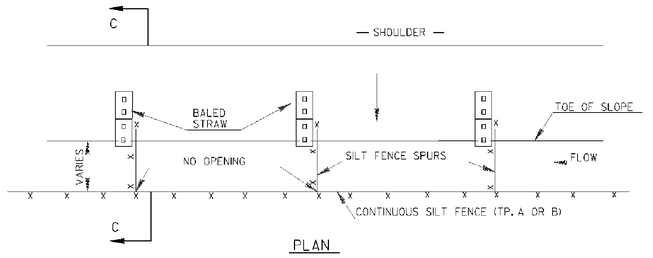
PLAN

* DIAGONAL SUPPORT POST

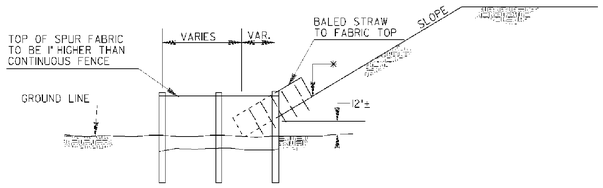


SECTION A-A

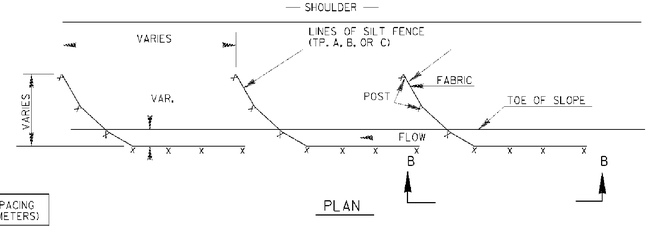
TYPICAL LOCATIONS AT TOE OF SLOPES



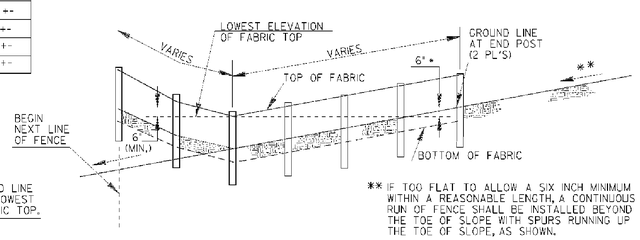
PLAN



SECTION C-C



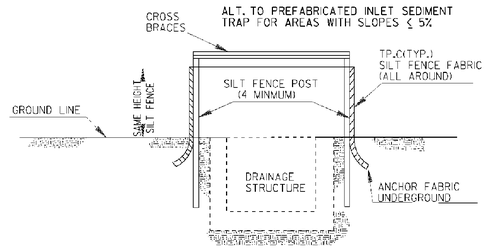
PLAN



** IF TOO FLAT TO ALLOW A SIX INCH MINIMUM WITHIN A REASONABLE LENGTH, A CONTINUOUS RUN OF FENCE SHALL BE INSTALLED BEYOND THE TOE OF SLOPE WITH SPURS RUNNING UP THE TOE OF SLOPE, AS SHOWN.

SECTION B-B

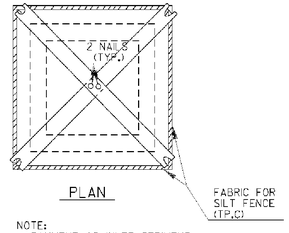
TYPICAL LOCATION AROUND DROP INLETS



ELEVATION

CROSS BRACES:

TWO - 2 X 4's WITH ENDS TO FIT POST, PROVIDING STURDY SUPPORT, OR AN APPROVED ALTERNATE



PLAN

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:

SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE, BALED STRAW EROSION CHECK, BRUSH BARRIER DETAILS" FOR BALED STRAW AT TOE OF SLOPE, FOR SILT FENCE ERECTION DETAILS, OR FOR BRUSH BARRIERS, WHERE REQUIRED.

MGR	BY	REVISION	DATE
		REV. SILT FENCE REC.	10-22-02
RMJ	JAM.	REV. & REINR.	9 01
		ADD "USES" GUIDE	5-14-93

CONSTRUCTION DETAILS
TYPICAL LOCATION DETAILS FOR SILT FENCES / BALED STRAW

(SHEET 2 OF 2)
NO SCALE
AUGUST 1989

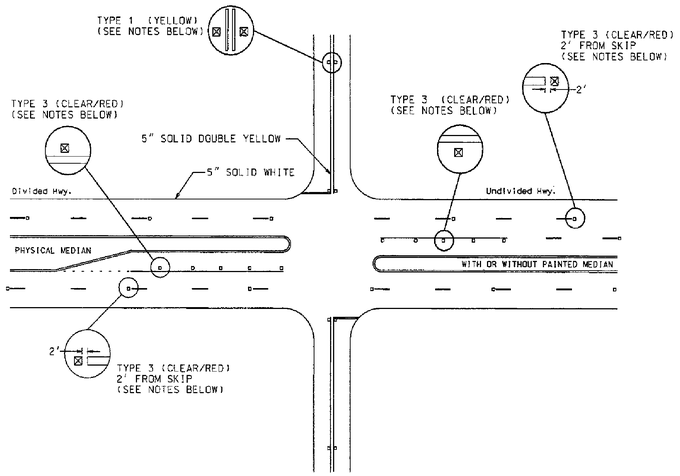
D-24(b)

NOT RELEASED FOR CONSTRUCTION

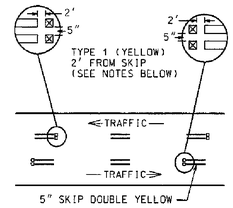
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS
SR 53 STREETSCAPE

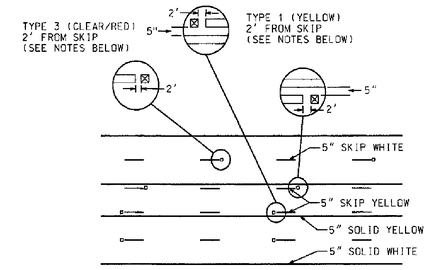
DRAWING No. 56-02



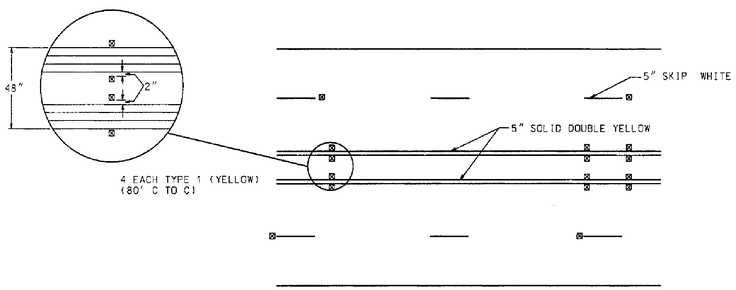
DIVIDED / UNDIVIDED HIGHWAY



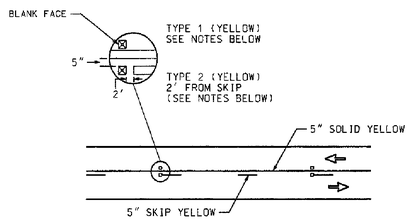
REVERSIBLE LANE



TWO WAY LEFT TURN LANE



4'-0" STRIPED FLUSH MEDIAN



NO PASSING ZONE

GENERAL NOTES:

1. RAISED PAVEMENT MARKERS SHALL BE SPACED EVERY 80 FT UNLESS OTHERWISE SPECIFIED.
2. ON SOLID WHITE TURN BAY LINES. SPACING SHALL BE 20 FT.
3. RAISED PAVEMENT MARKERS SHALL BE OFFSET 5 INCHES FROM SOLID LANE LINES.
4. CLEAR FACE OF TYPE 3 RAISED PAVEMENT MARKERS SHALL BE ORIENTED TOWARD ONCOMING TRAFFIC.
5. ON HORIZONTAL CURVES WHERE AT LEAST 3 MARKERS CANNOT BE SEEN AT ONE TIME USING NORMAL SPACING, MARKERS SHALL BE PLACED 40 FT.

DATE	REVISIONS
9-4-03	NO PASSING ZONE RPM's
1-13-04	NO PASSING ZONE RPM's

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

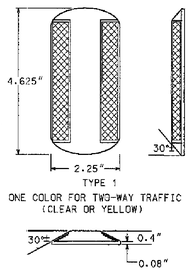
DETAILS OF
RAISED PAVEMENT MARKER LOCATION
NON-LIMITED ACCESS ROADWAY
NO SCALE JANUARY 2000

NOT RELEASED FOR CONSTRUCTION

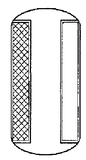
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS
SR 53 STREETSCAPE
DRAWING No. 40-09

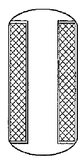
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



TYPE 1
ONE COLOR FOR TWO-WAY TRAFFIC
(CLEAR OR YELLOW)

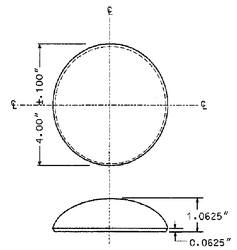


TYPE 2
ONE COLOR FOR ONE-WAY TRAFFIC
(CLEAR, YELLOW OR RED)

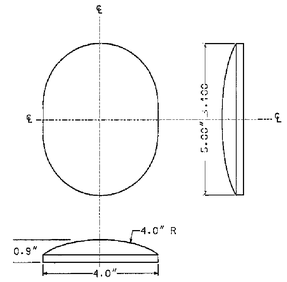


TYPE 3
TWO COLOR FOR ONE-WAY TRAFFIC
(ANY COMBINATION OF CLEAR, YELLOW OR RED)

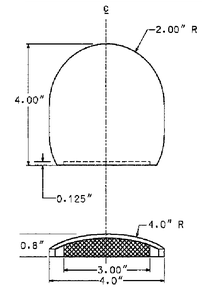
RAISED REFLECTIVE MARKERS



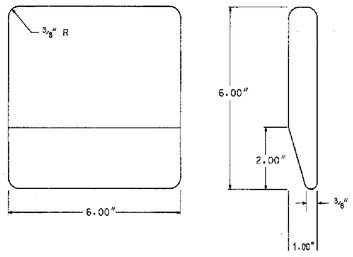
TYPE 4
OPAQUE CERAMIC MARKER
(WHITE, YELLOW OR BLACK)



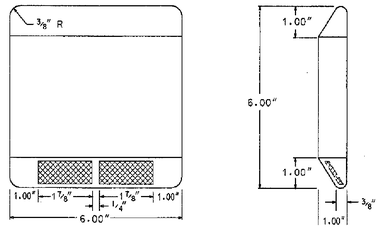
TYPE 5
OVAL CERAMIC MARKER
(NON-REFLECTIVE WHITE, YELLOW OR BLACK)



TYPE 6
REFLECTIVE CERAMIC MARKER
(REFLECTIVE WHITE, YELLOW OR BLACK)

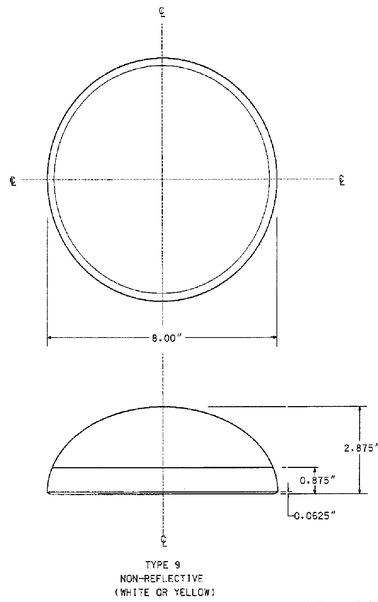


TYPE 7
NON-REFLECTIVE MARKER
(WHITE OR YELLOW)

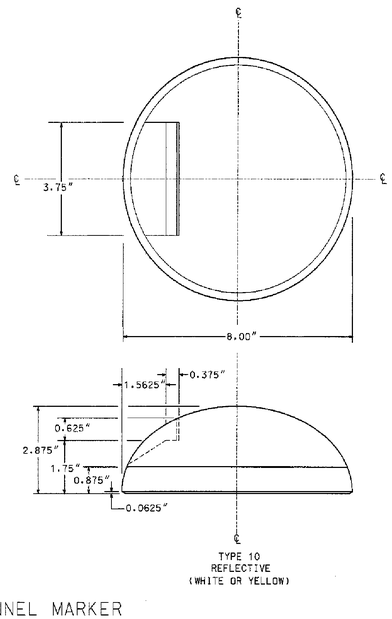


TYPE 8
REFLECTIVE MARKER
(WHITE OR YELLOW)

CERAMIC JIGGLE BAR MARKER

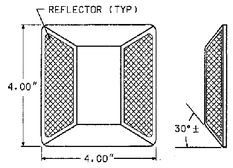


TYPE 9
NON-REFLECTIVE
(WHITE OR YELLOW)

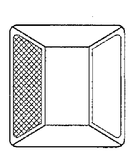


TYPE 10
REFLECTIVE
(WHITE OR YELLOW)

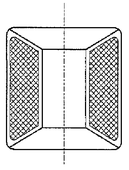
CERAMIC CHANNEL MARKER



TYPE 11
ONE COLOR FOR TWO-WAY TRAFFIC
(CLEAR OR YELLOW)



TYPE 12
ONE COLOR FOR ONE-WAY TRAFFIC
(CLEAR, YELLOW, OR RED)



TYPE 13
TWO COLOR FOR ONE-WAY TRAFFIC
(ANY COMBINATION OF CLEAR, YELLOW, OR RED)

ALTERNATE RAISED REFLECTIVE MARKERS

GENERAL NOTES:

1. SPECIFICATIONS SHALL BE PER THE SPECIAL PROVISIONS, OR AS SPECIFIED BELOW.
2. COLORS FOR REFLECTIVE ELEMENTS SHALL BE EITHER CLEAR, YELLOW, OR RED AS SPECIFIED.
3. THE SHELL OF THE REFLECTIVE MARKERS SHALL BE OF ONE COLOR OR OF A COMBINATION OF TWO COLORS, WHICH SHALL BE THE SAME AS THE REFLECTIVE ELEMENT.
4. THE SURFACE OF OPAQUE CERAMIC MARKERS SHALL BE GLAZED AND OF THE COLOR SPECIFIED IN THE PLANS WITH A WHITE, VITREOUS, CERAMIC BASE.
5. RAISED REFLECTIVE MARKERS TYPES 1, 2, AND 3 SHALL BE STIMSONITE SERIES 948, OR EQUAL.
6. CERAMIC JIGGLE BARS SHALL BE FERRO CORPORATION PENMARK P-6, OR EQUAL. ADHESIVE SHALL BE PER MANUFACTUROR'S SPECIFICATIONS.
7. CERAMIC CHANNEL MARKERS SHALL BE FERRO CORPORATION PENMARK P-18, OR EQUAL. ADHESIVE SHALL BE PER MANUFACTUROR'S SPECIFICATIONS.
8. COLORS FOR ALL RAISED PAVEMENT MARKERS SHALL BE AS SPECIFIED IN THE PLANS.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
RAISED PAVEMENT MARKERS

NO SCALE JANUARY 2000

NOT RELEASED FOR CONSTRUCTION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
CONSTRUCTION DETAILS
SR 53 STREETSCAPE

DRAWING No. 40-10