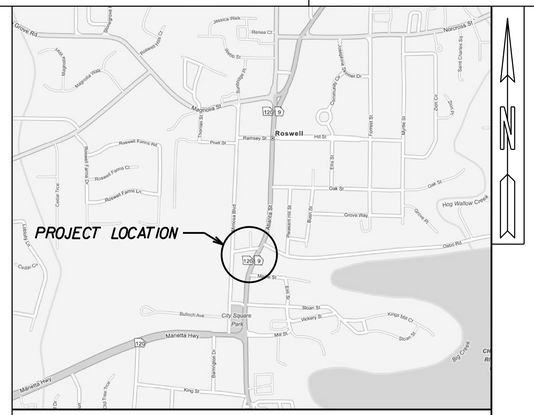
2/8/2016 gnicolas	GPLOT-V8 gplotborder-V81-PO.tbl	7282015_01-001.dgn GRWCOV	GDOT	P.I. No.

DEPARTMENT OF TRANSPORTATION
CITY OF ROSWELL

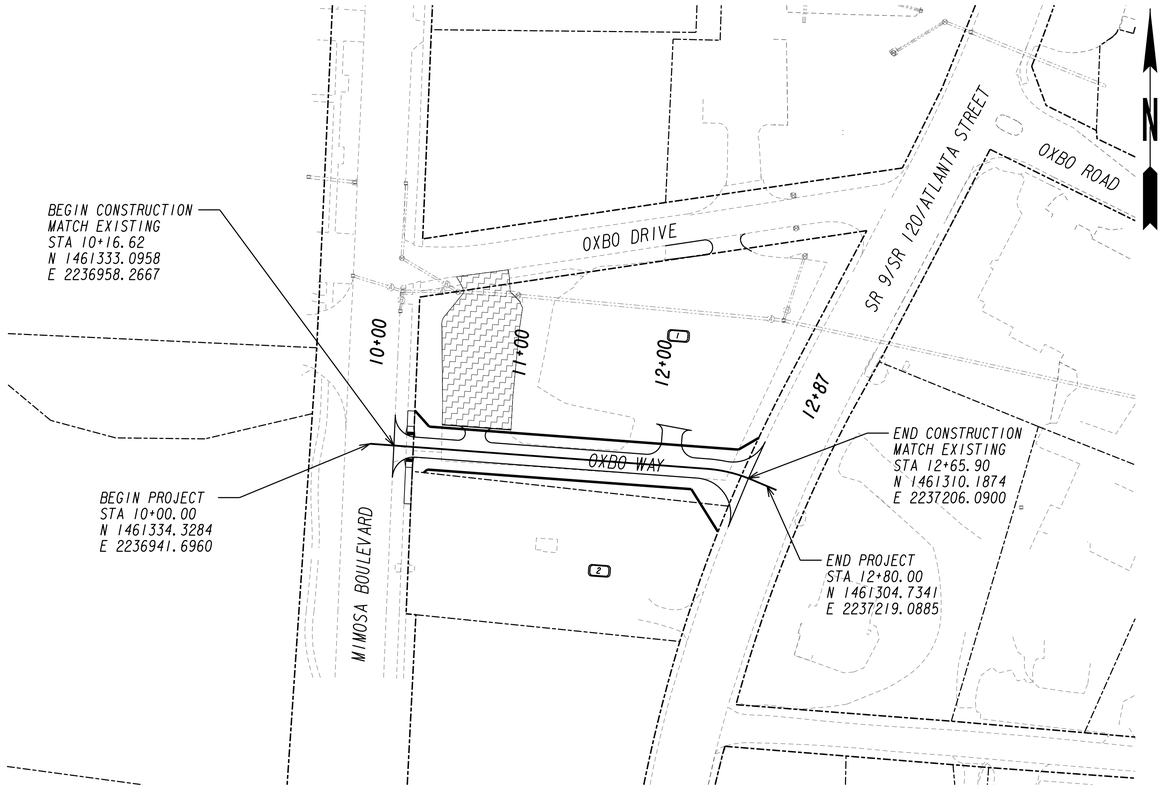
PLAN AND PROFILE OF PROPOSED

OXBO DRIVE ONE-WAY PAIR @ SR 9/SR 120/ATLANTA STREET



LOCATION SKETCH

LOCAL LET PROJECT



ROSWELL GEORGIA SINCE 1854

CITY OF ROSWELL
DEPARTMENT OF TRANSPORTATION
38 HILL STREET, SUITE 235
ROSWELL, GA 30075
770-594-6420

GEORGIA REGISTERED NO. 035687 PROFESSIONAL ENGINEER GREGORY J. NICOLAS

THE TOTAL AREA FOR THIS PROJECT IS 0.24 ACRES. THE TOTAL DISTURBED AREA FOR THIS PROJECT IS 0J9 ACRES. A NOTICE OF INTENT (NOI) IS NOT REQUIRED.

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

LENGTH OF PROJECT	COUNTY No. / Project No.
	MILES
NET LENGTH OF ROADWAY	0.05
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.05
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.05

SCALE IN FEET
0 50 100 200

DATE	GREGORY NICOLAS, P.E., 770-641-3704
PLANS COMPLETED 2 -5 -2016	
REVISIONS	

DRAWING No. 01-0001

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

CONCEP
07/31/2015

DRAWING NO.	DESCRIPTION
	INDEX
1-001	Cover
2-001	Index
4-001	General Notes
5-001	Typical Sections
6-001	Summary Quantities
13-001 to 13-004	Mainline Plan
15-001	Mainline Roadway Profile
17-001	Driveway Profile
23-001 to 23-004	Cross Sections
24-001A to 24-001	Utility Plans
26-001	Signing and Marking Plans
40-001 to 40-008	Construction Details
41-001 to 41-002	Georgia Standards
51-001	ESPC General Notes
52-001 to 52-006	Erosion Control Legend and Uniform Code Sheet
54-001	BMP Location Details
56-001	Erosion Control Construction Standards and Details
	GEORGIA DETAILS
40-001	A-3 Concrete sidewalk Details; Curb Cut (Wheelchair) Ramps (6-09)
40-002	A-4 Detectable Warning Surface; Truncated Dome Size; Spacing and (6-09)
40-003	T-1 Details of Sign Plates (1-00)
40-004	T-2 Details for Typical Framing (3-00)
40-005	T-3A Type 7, 8 and 9 Square Tube Post Installation Detail (7-02)
40-006	T-11A Details of Pavement Marking Placement (1-00)
	Non-Limited Access Roadway
40-007	T-12B Details of Pavement Markings - Arrows (1-00)
40-008	T-18 Details of Handicapped Pavement Markings (1-00)
	GEORGIA STANDARDS
41-001	9032-B Concrete Curb and Gutter, Concrete Curbs, (11-11)
	Concrete Medians
41-002	9107 Traffic Control Detail for Lane Closure on (3-06)
	Multi-Lane Undivided Highway
	EROSION CONTROL LEGEND
40-001	EC-L1 Erosion Control Legend and Uniform Code Sheet (Sheet 1 of 6) (1-13)
40-002	EC-L2 Erosion Control Legend and Uniform Code Sheet (Sheet 2 of 6) (1-13)
40-003	EC-L3 Erosion Control Legend and Uniform Code Sheet (Sheet 3 of 6) (1-13)
40-004	EC-L4 Erosion Control Legend and Uniform Code Sheet (Sheet 4 of 6) (1-13)
40-005	EC-L5 Erosion Control Legend and Uniform Code Sheet (Sheet 5 of 6) (1-13)
40-006	EC-L6 Erosion Control Legend and Uniform Code Sheet (Sheet 6 of 6) (1-13)
	DRAINAGE AND EROSION CONTROLS
40-001	D-24A Temporary Silt Fence (Sheet 1 of 4) (1-11)

DRAWING NO.	DESCRIPTION

ROSWELL GEORGIA SINCE 1854

REVISION DATES

INDEX

CHECKED:		DATE:		DRAWING No.
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7/31/2015 GPLN

GENERAL NOTES

1. A NOTICE OF INTENT (NOI) IS NOT REQURIED FOR THIS PROJECT.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY RESULTING BROKEN WATER, SANITARY SEWER, OR OTHER UTILITIES DURING CONSTRUCTION.
3. ADD ALTERNATE #1 SHALL CONSIST OF 6" GRADED AGGREGATE BASE AND 1.5" 9.5 MM SUPERPAVE.
4. ADD ALTERNATE #2 SHALL CONSIST OF AGGREGATE SURFACE COURSE - #89 STONE.
5. THE 1ST BAPTIST CHURCH SHALL BE NOTIFIED 7 DAYS PRIOR TO ANY WORK TO BE DONE.

STANDARD SIGNS GENERAL NOTES

1. ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE SPECIFIC ITEM.
2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES,(MUTCD), LATEST EDITION, AND ANY APPLICABLE CITY OF ROSWELL STANDARDS.
3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH THE CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
4. ALL PAVEMENT MARKINGS SHALL BE PAINTED UNLESS OTHERWISE NOTED.
5. ALL SIGNS SHALL HAVE TYPE III OR TYPE IX RETROREFLECTIVE SHEETING EXCEPT SCHOOL RELATED SIGNS, WITH THEIR REQUIRED PLAQUES AND ADVISORY NAME BLADES, WHICH SHALL HAVE FLUORESCENT YELLOW/GREEN COLOR AND TYPE IX SHEETING.
6. ALL SIGNS SHALL BE ON 5052-H38 FLAT ALUMINUM ALLOY (0.080 GAUGE THICKNESS) WITH ROUNDED CORNERS. ALL SIGNS SHALL MEET OR EXCEED ASTM D 4956 SPECIFICATIONS FOR RETROREFLECTIVITY. SIGN COLORS SHALL BE MATCHED VISUALLY AND BE WITHIN THE COLOR TOLERANCE LIMITS SHOWN ON THE APPROPRIATE HIGHWAY COLOR TOLERANCE CHARTS ISSUED BY THE FHWA UTILIZING THE INSTRUCTIONS THEREON.
7. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS OF THE MUTCD, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR WITHOUT WITHOUT PRIOR APPROVAL FROM CITY OF ROSWELL DEPARTMENT OF TRANSPORTATION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL SIGNS/POSTS/PAVEMENT MARKINGS THAT ARE DUPLICATED OR CONTRARY TO THESE PLANS.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING TRAFFIC CONTROL SIGNS THROUGHOUT CONSTRUCTION. THIS INCLUDES CLEANING AND REPLACEMENT OF EXISTING SIGNS SHOULD THESE SIGNS NEED CLEANING, REPAIR OR REPLACEMENT DURING CONSTRUCTION.

UTILITY OWNER	SERVICE	CONTACT NUMBERS	SHEET NUMBERS
GEORGIA POWER	GUY POLE	JOHN GAY	24-001

GEORGIA811
Utilities Protection Center, Inc.
Know what's below.
Call before you dig.

ROSWELL GEORGIA SINCE 1854

REVISION DATES

GENERAL NOTES

CHECKED:		DATE:		DRAWING No.
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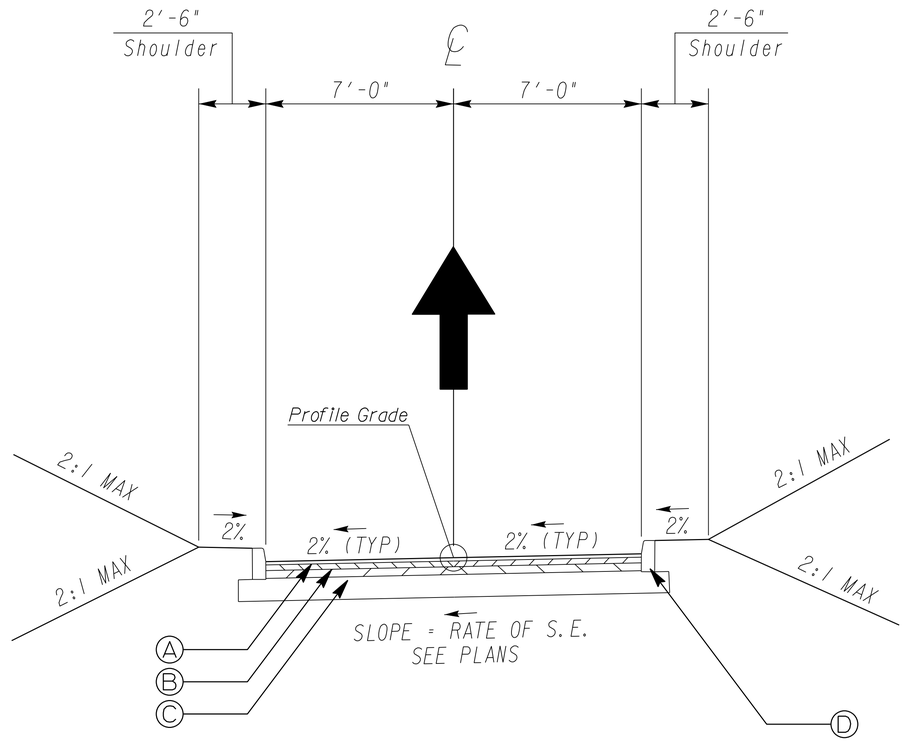
7/31/2015 GPLN



TS-01

REQUIRED PAVEMENT SECTION

A 1 ½" RECYCLED ASPH. CONC. 9.5mm SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB/SQ YD)
B 2" RECYCLED ASPH. CONC. 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SQ YD)
C 8" GRADED AGGREGATE BASE
D 6" CONCRETE HEADER CURB, GA. STD. 9032B, TYPE 2

ROSWELL GEORGIA SINCE 1854

NOT TO SCALE

REVISION DATES

TYPICAL SECTIONS

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7/31/2015 GPLN

SUMMARY OF QUANTITIES

GRADING COMPLETE

LUMP SUM

* INCLUDES CLEARING AND GRUBBING (0.19 AC. EST.)
SEE SECTION 210 - GA. STD. SPECIFICATIONS
(ESTIMATED EARTHWORK: 95 CU. YDS.
UNCL. EXCAVATION AND 85 CU. YDS. OF
BORROW). A 15% SHRINKAGE FACTOR HAS
BEEN APPLIED TO CUT & BORROW EXCAVATION.

TRAFFIC CONTROL

LUMP SUM

CONCRETE SIDEWALK, 4 IN

TOTAL	35 SY

CONCRETE HEADER CURB 6 IN, TP 2 - GA STD 9032B

TOTAL	750 LF

SAWED JOINTS IN EXIST PAVEMENT (ASPHALT)

TOTAL	350 LF

SURFACING QUANTITIES

ITEMS	UNIT	ROADWAY			TOTALS
GRADED AGGREGATE BASE COURSE	TON	260			260
RECYCLED ASPH CONC, 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TON	55			55
RECYCLED ASPH CONC, 9.5 MM SUPERPAVE, TYPE II, GP 2 ONLY, INCL BITUM MATL & H LIME	TON	45			45
BITUMINOUS TACK COAT	GAL	35			35
HA-5 MINERAL BOND SURFACE TREATMENT	SY	600			600

EROSION CONTROL QUANTITIES

DESCRIPTION	UNIT	QUANTITY
MULCH	TN	35
SOD	SY	450
EROSION CONTROL MATS, SLOPES	SY	300
AGRICULTURAL LIME	TN	1
FERTILIZER MIXED GRADE	TN	1
FERTILIZER NITROGEN CONTENT	LB	10
TEMPORARY SILT FENCE, TYPE C	LF	425
MAINTENANCE OF SILT FENCE, TYPE C	LF	212.5

SUMMARY OF QUANTITIES - STANDARD SIGNS

INSTL. NO.	STATION	SIDE	CODE	SIGNS (TYPE III REFLECTIVE SHEETING) TYPE 1 (0.08) SIZE	QTY	SQUARE FEET	TYPE 2 (0.10) SIZE	QTY	SQUARE FEET	SIGNS (TYPE IX REFLECTIVE SHEETING) TYPE 1 (0.08) SIZE	QTY	SQUARE FEET	TYPE 2 (0.10) SIZE	QTY	SQUARE FEET	SQUARE TUBE POST TYPE 7 LENGTH (FEET)	QTY	TOTAL LENGTH	TYPE 8 LENGTH (FEET)	QTY	TOTAL LENGTH	TYPE 9 LENGTH (FEET)	QTY	TOTAL LENGTH
OXBO DRIVE																								
	10+93	LT	R3-1	24x24	1	4										13	1	13						
			R5-1							30x30		6.25												
	12+52	LT	R3-1	24x24	1	4										12	1	12						
Oxbo Way																								
	9+75	LT	M4-5	24x12		2										15	1	15						
			M1-5 (9)	24x24		4																		
			M5-1L	21x15		2.2																		
	10+21	LT	R6-2L	24x30		5										13	1	13						
			R6-2R	24x30		5																		
			D3-1 (Oxbo Way)	24x12																				
			D3-1 (Mimosa Blvd)	24x12																				
	10+22	RT	M4-5	24x12		2										15	1	15						
			M1-5 (9)	24x24		4																		
			M5-1R	21x15		2.2																		
	11+00	RT	W3-1							30x30		6.25				14	1	14						
	12+52	RT	R1-1							30x30		6.25				13	1	13						
	12+57	RT	R6-1L							36x12		3				14	1	14						
			R5-1							30x30		6.25												
	12+60	LT	R6-1R							36x12		3				14	1	14						
			R5-1							30x30		6.25												
TOTAL						34.4						37.25						123						

THERMOPLASTIC TRAFFIC STRIPE

DESCRIPTION	UNIT	QUANTITY
5" SOLID WHITE	LF	475
TRAFFIC STRIPE WHITE	SY	56
24" SOLID WHITE	LF	37
8" SOLID WHITE	LF	75
HANDICAP SYMBOL MARKING	EA	3
TYPE 1 ARROW PAVEMENT MARKING	EA	3
REMOVE EXISTING STRIPE	LF	400

ADD ALTERNATE #1

DESCRIPTION	UNIT	QUANTITY
GRADING COMPLETE	LS	1
GRADED AGGREGATE BASE	TN	66
9.5 MM SUPERPAVE, TYPE II	TN	15
CONCRETE HEADER CURB, 6 IN, TP 2	LF	120

ADD ALTERNATE #2

DESCRIPTION	UNIT	QUANTITY
GRADING COMPLETE	LF	1
AGGREGATE SURFACE CRS-#89 STONE	TN	50

ROSWELL GEORGIA SINCE 1854

REVISION DATES

SUMMARY QUANTITIES

CHECKED: DATE:
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DRAWING No. 06-001

7/31/2015 GPLN

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EXIST. R/W

EXIST. R/W

OXBO DRIVE

R 5'

R 4'

R 7'

20.0'

R 5'

SR 9/SR 120/ATLANTA STREET

EXIST. R/W

SEAL EXISTING ASPHALT

N/F

FIRST BAPTIST CHURCH OF ROSWELL TRS

10+00

11+00

12+00

12+87

HEADER CURB (TYP)

BEGIN CONSTRUCTION
MATCH EXISTING
STA 10+16.62
N 1461333.0958
E 2236958.2667

MATCH EXISTING

14.0'

R 5' X 4

R 5' X 2

MATCH EXISTING

14.0'

R 10' X 2

END CONSTRUCTION
MATCH EXISTING
STA 12+65.90
N 1461310.1874
E 2237206.0900

R 15'

S85°44'45.8"E

OXBO WAY

CURVE 1

R 25'

R 25'

REQ'D R/W

P.C. 12+35.92

P.T. 12+68.45

R 15'

BEGIN PROJECT
STA 10+00.00
N 1461334.3284
E 2236941.6960

GA DTL A-3
TYPE D RAMP (TYP)

EXIST. R/W

MIMOSA BOULEVARD

EXIST. R/W

SVA103
BENCHMARK
NORTH CORNER
OF SIDEWALK
INTERSECTION
ELEV=1034.75

SVA101
BENCHMARK
CHISELED "X"
OLD CONCRETE
SIGN FOOTING
ELEV=1014.33

END PROJECT
STA 12+80.00
N 1461304.7341
E 2237219.0885

2
N/F
MARIAN B DAVID

Curve 1
PI Sta: 12+52.33
N: 1461315.6115
E: 2237193.3273
DELTA: 18°38'15.0" (RT)
D: 57°17'44.81"
T: 16.41
L: 32.53
R: 100.00

AC

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

		DATE:		DRAWING No.
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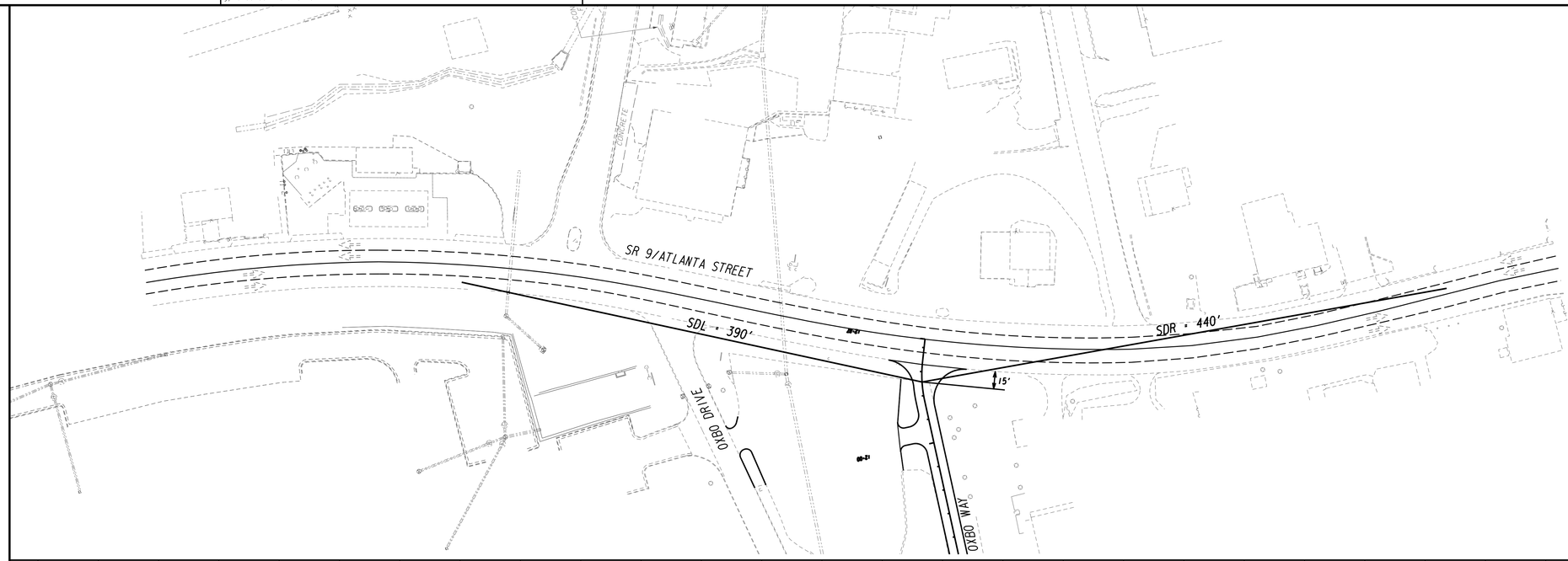

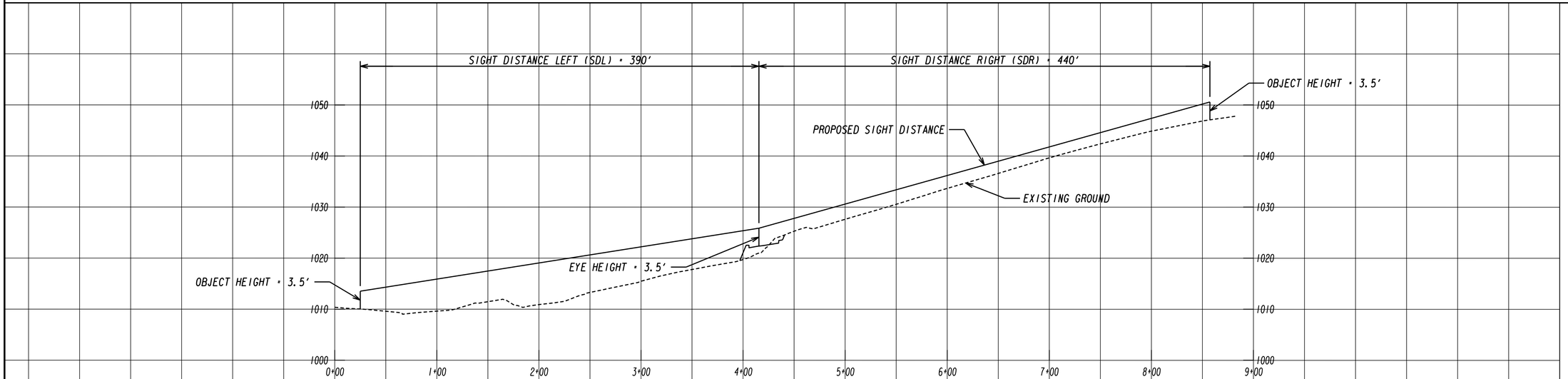

NOTE:
INTERSECTION SIGHT DISTANCE
DESIGN SPEED = 35 MPH

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 50 100 200

REVISION DATES

MAINLINE PLAN

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		13-002
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PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

ADD ALTERNATE # 1

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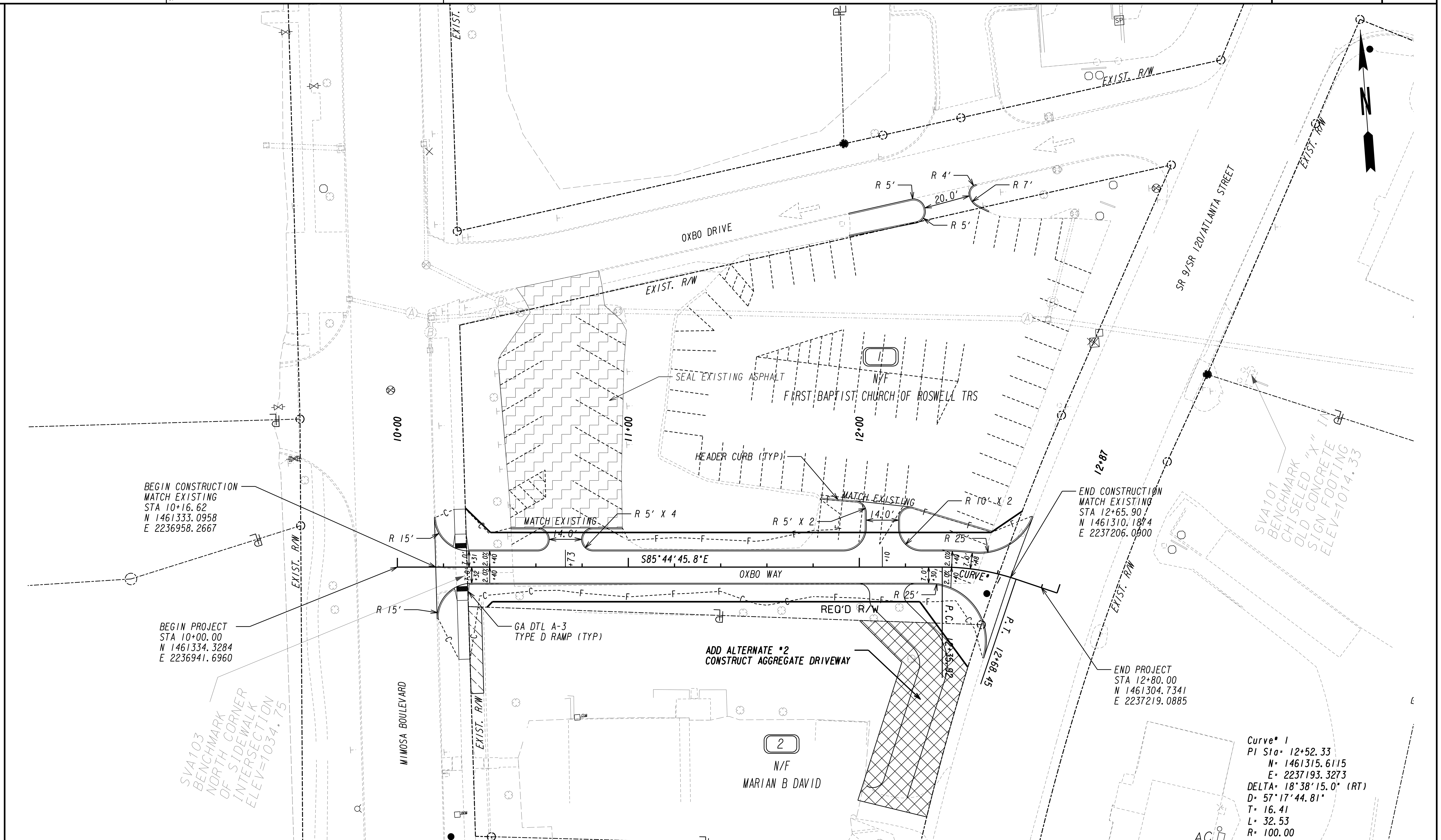
7/31/2015 GPLN


OXBO DRIVE
EXIST. R/W
SR 9/SR 120/ATLANTA STREET
SEAL EXISTING ASPHALT
N/F
FIRST BAPTIST CHURCH OF ROSWELL TRS
HEADER CURB (TYP)
MATCH EXISTING
BEGIN CONSTRUCTION
MATCH EXISTING
STA 10+16.62
N 1461333.0958
E 2236958.2667
END CONSTRUCTION
MATCH EXISTING
STA 12+65.90
N 1461310.1874
E 2237206.0900
S85°44'45.8"E
OXBO WAY
REQ'D R/W
BEGIN PROJECT
STA 10+00.00
N 1461334.3284
E 2236941.6960
GA DTL A-3
TYPE D RAMP (TYP)
ADD ALTERNATE #2
CONSTRUCT AGGREGATE DRIVEWAY
END PROJECT
STA 12+80.00
N 1461304.7341
E 2237219.0885
MIMOSA BOULEVARD
N/F
MARIAN B DAVID
SVA103
BENCHMARK
NORTH CORNER
OF SIDEWALK
INTERSECTION
ELEV=1034.75
SVA101
BENCHMARK "X"
CHISELED CONCRETE
OLD CONCRETE
SIGN FOOTING
ELEV=1014.33
Curve# 1
PI Sta= 12+52.33
N= 1461315.6115
E= 2237193.3273
DELTA= 18°38'15.0" (RT)
D= 57°17'44.81"
T= 16.41
L= 32.53
R= 100.00

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

ADD ALTERNATE # 2

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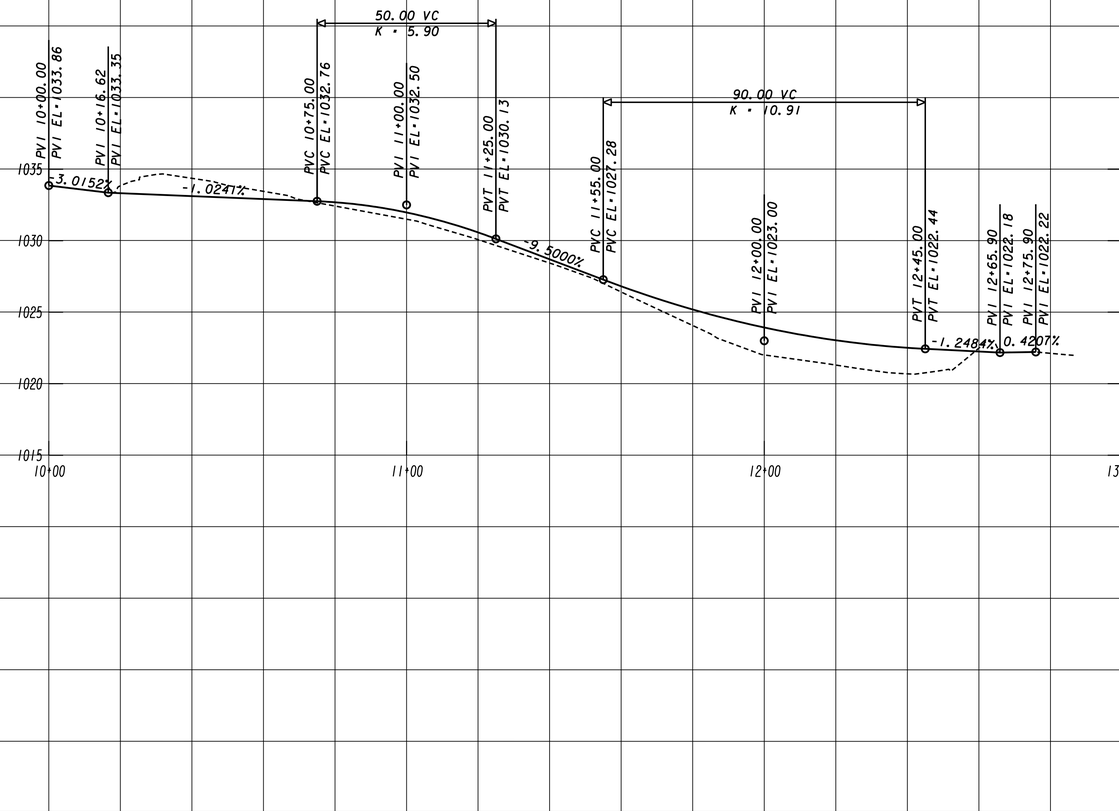
13-004



NOTES:
1. PROPOSED SPEED DESIGN = 15 MPH
2. MINIMUM K CREST = 3
3. MINIMUM K SAG = 10

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PROFILE

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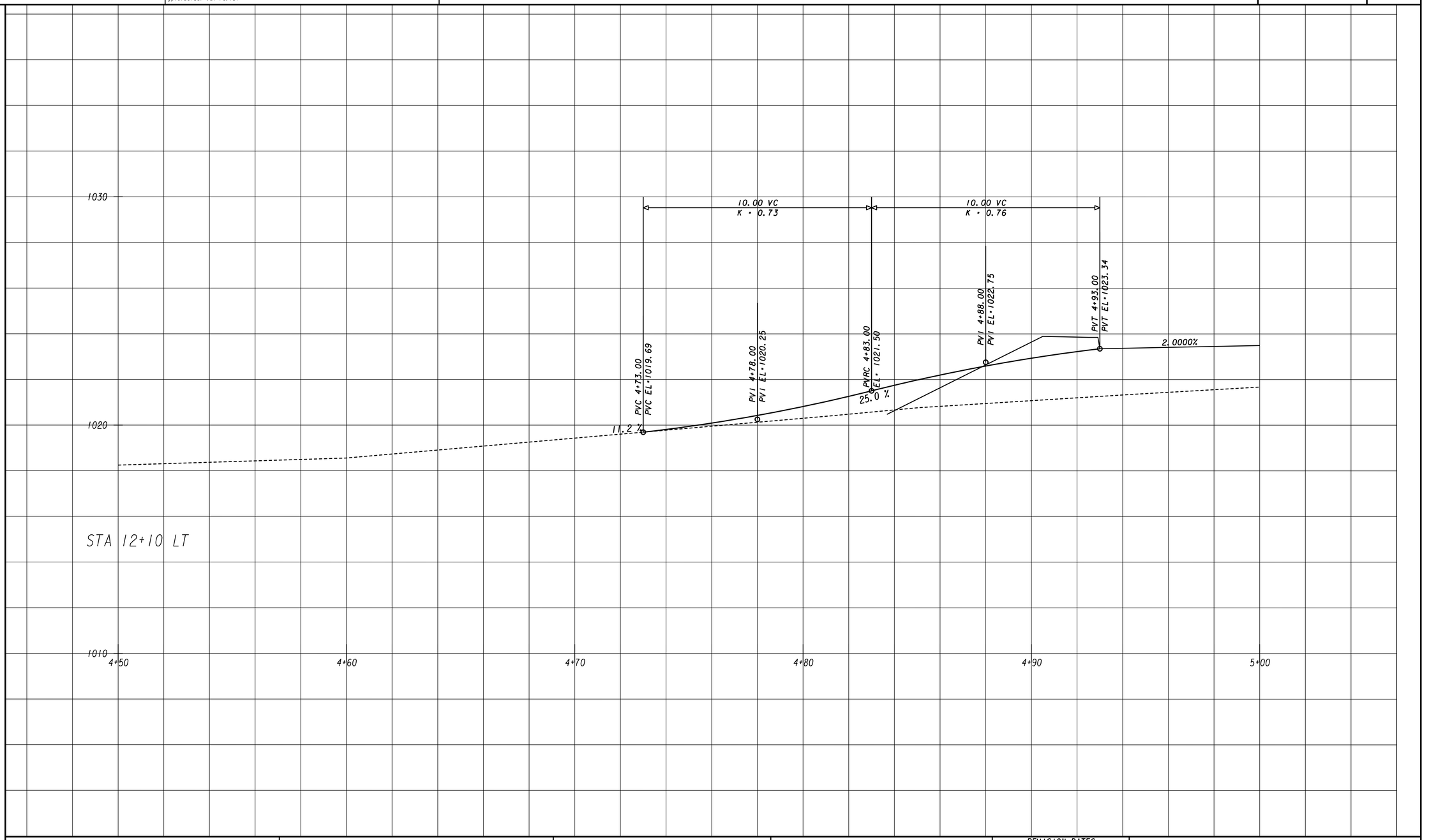

7/31/2015 GPLN

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES		

DRIVEWAY PROFILE

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GDOT

10+80

10+60

10+40

10+20

10+00

2:1 -11.26 | 2.0% | 1032.68 | 2.0% | 1032.42 | 2.0% | 2:1 11.31

2:1 -10.01 | 2.0% | 1032.91 | 2.0% | 1033.45 | 2.0% | 2:1 10.21

2:1 -10.64 | 2.0% | 1033.11 | 2.0% | 1034.36 | 2.0% | 2:1 12.19

2:1 -14.77 | 2.0% | 1033.32 | 2.0% | 1033.84 | 2.0% | 2:1 16.43

1033.86

7/31/2015 SUXSEW

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET

0 10 20 40

REVISION DATES

CROSS SECTIONS

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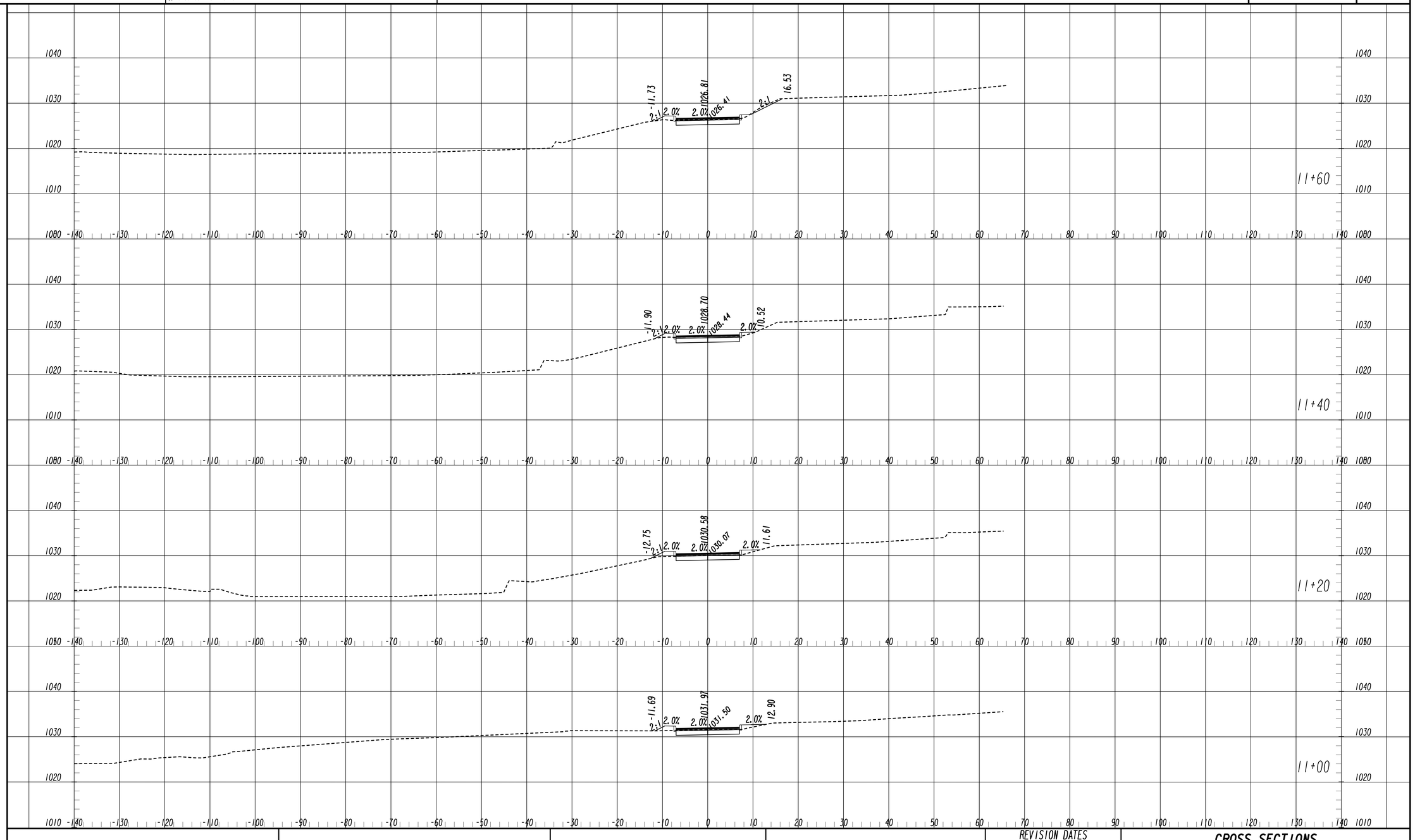

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 10 20 40

REVISION DATES

CROSS SECTIONS

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BACKCHECKED:		DATE:		23-002
CORRECTED:		DATE:		
VERIFIED:		DATE:		

7/31/2015 SUXSEW

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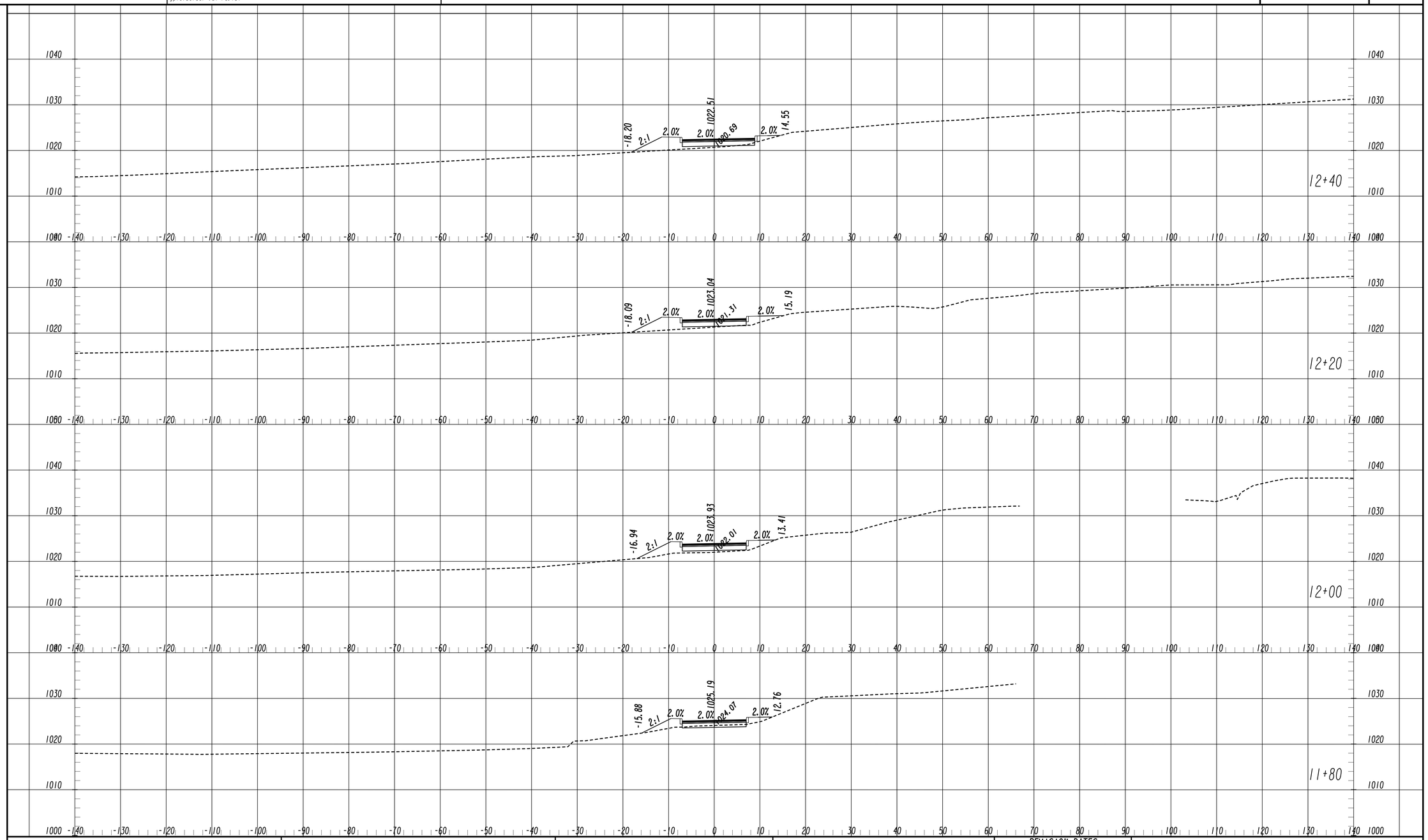

7/31/2015 SUXSEW

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 10 20 40

REVISION DATES

CROSS SECTIONS

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

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GDOT

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1040
1030
1020
1010
1000

-140 -130 -120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

1021.97

12+87

1022.13

12+80

19.84
2:1 2.0%
1022.25
1022.48
2.0%
2:1
28.73

12+60

REVISION DATES

CROSS SECTIONS

ROSWELL
GEORGIA
SINCE 1854

SCALE IN FEET
0 10 20 40

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		23-004
CORRECTED:		DATE:		
VERIFIED:		DATE:		

7/31/2015 SUXSEW

UTILITY LINECODES

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD	E	E	E	ELECTRIC
	E-T	E-T	E-T	ELECTRIC/TELECOMMUNICATIONS
	E-TV	E-TV	E-TV	ELECTRIC/CABLE TV
	E-T-TV	E-T-TV	E-T-TV	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
	GW	GW	GW	GUY WIRE
	T	T	T	TELECOMMUNICATIONS
	T-TV	T-TV	T-TV	TELECOMUNICATIONS/CABLE TV
	TV	TV	TV	CABLE TV
UNDERGROUND	E	E	E	ELECTRIC
	T	T	T	TELECOMMUNICATIONS
	TV	TV	TV	CABLE TV
	W	W	W	WATER
	**W	**W	**W	WATER FOR LABELED PIPE SIZES
	NW	NW	NW	NON-POTABLE WATER
	**NW	**NW	**NW	NON-POTABLE WATER FOR LABELED PIPE SIZES
	STM	STM	STM	STEAM
	**STM	**STM	**STM	STEAM FOR LABELED PIPE SIZES
	SS	SS	SS	SANITARY SEWER WITH FLOW DIRECTION
	Σ**SS	Σ**SS	Σ**SS	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES
	SFM	SFM	SFM	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION
	G	G	G	GAS
	**G	**G	**G	GAS FOR LABELED PIPE SIZES
	P	P	P	PETROLEUM
	**P	**P	**P	PETROLEUM FOR LABELED PIPE SIZES

UTILITY SYMBOLS

EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE
			LIGHT POLE
			GUY ANCHOR
M	M	M	MARKER
X	X	X	SPLICE BOX
			CABINET
			VENT
E	E	E	ELECTRIC MANHOLE
H	H	H	HAND HOLE
E	E	E	TRANSFORMER
E	E	E	ELECTRIC METER
E	E	E	ELECTRIC BOX
T	T	T	TELECOMMUNICATIONS MANHOLE
T	T	T	TELECOMMUNICATIONS PEDESTAL
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")
			PHONE BOOTH
			CABLE TV PEDESTAL
TV	TV	TV	CABLE TV MANHOLE
W	W	W	WATER VALVE
W	W	W	WATER METER
W	W	W	WATER MANHOLE

EXISTING	PROPOSED	TEMPORARY	
			FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
BFP	BFP	BFP	BACKFLOW PREVENTER
PIV	PIV	PIV	PRESSURE INDICATOR VALVE
ARV	ARV	ARV	AIR RELEASE VALVE
W	W	W	WELL
W	W	W	WATER VAULT
W	W	W	WATER VALVE MARKER
			STAND PIPE
			CLEANOUT
SS	SS	SS	SANITARY SEWER MANHOLE
ARV	ARV	ARV	AIR RELEASE VALVE
GT	GT	GT	GREASE TRAP
S	S	S	SANITARY SEWER FORCE MAIN VALVE
G	G	G	GAS VALVE
G	G	G	GAS METER
G	G	G	GAS MANHOLE
GPR	GPR	GPR	GAS PRESSURE REGULATOR
G	G	G	GAS VAULT
GTS	GTS	GTS	GAS TEST STATION
P	P	P	PETROLEUM VALVE

GEORGIA811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

ROSWELL GEORGIA SINCE 1854

REVISION DATES

UTILITY PLANS

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		24-001A
CORRECTED:		DATE:		
VERIFIED:		DATE:		

7/31/2015 GPLN

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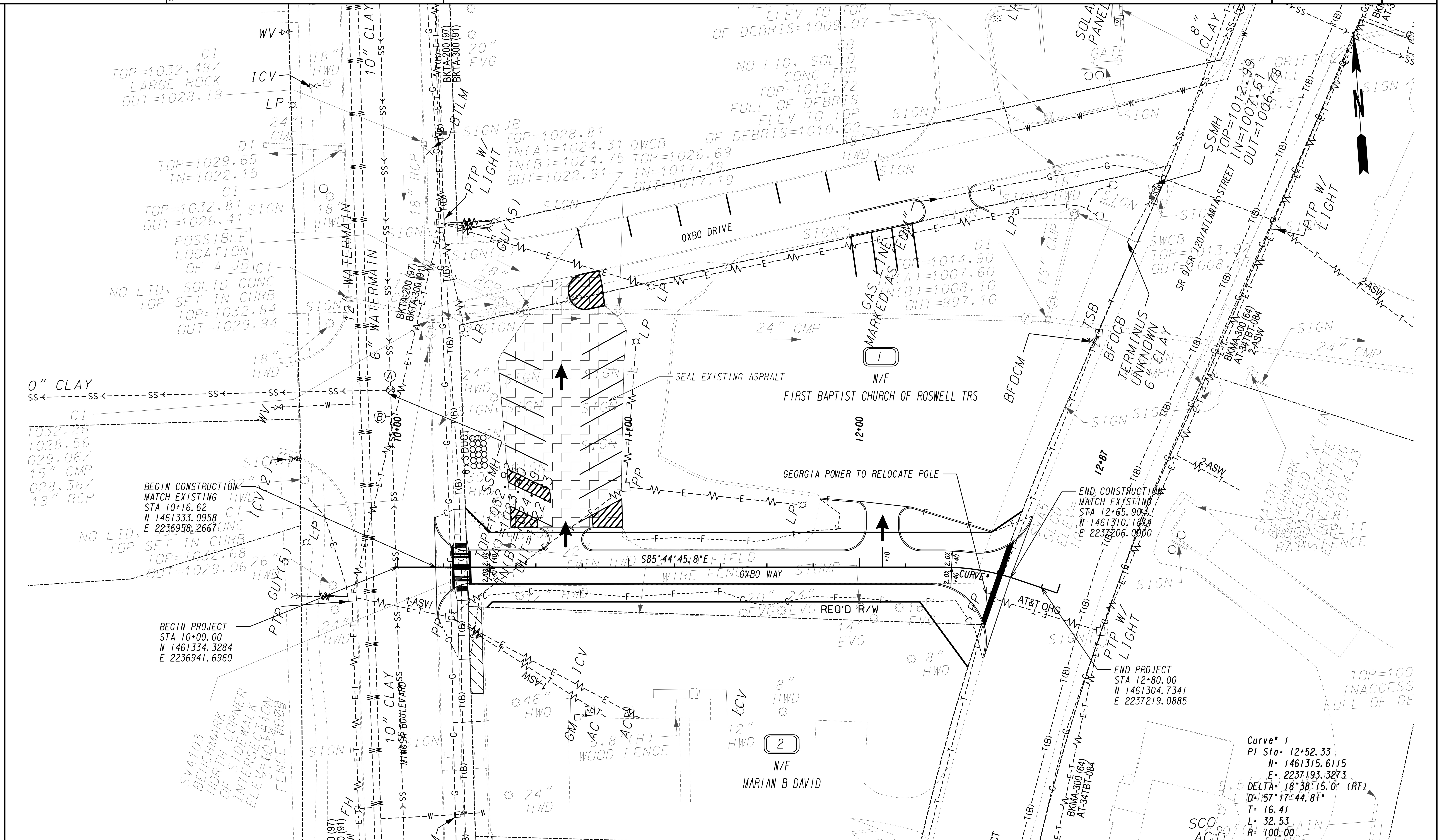

OXBO DRIVE
OXBO WAY
SEAL EXISTING ASPHALT
1
N/F
FIRST BAPTIST CHURCH OF ROSWELL TRS
2
N/F
MARIAN B DAVID
GEORGIA POWER TO RELOCATE POLE
BEGIN CONSTRUCTION
MATCH EXISTING
STA 10+16.62
N 1461333.0958
E 2236958.2667
BEGIN PROJECT
STA 10+00.00
N 1461334.3284
E 2236941.6960
END CONSTRUCTION
MATCH EXISTING
STA 12+65.903
N 1461310.1824
E 2237206.0900
END PROJECT
STA 12+80.00
N 1461304.7341
E 2237219.0885
S85°44'45.8"E
REQ'D R/W
CURVE 1
AT&T OHG
GAS LINE MARKED AS "ECN"
SR 9/SR 120/ATLANTA STREET
10" CLAY
12" WATERMAIN
6" WATERMAIN
BFOCB TERMINUS UNKNOWN
Curve# 1
PI Sta= 12+52.33
N= 1461315.6115
E= 2237193.3273
DELTA= 18°38'15.0" (RT)
D= 57°17'44.81"
T= 16.41
L= 32.53
R= 100.00

GEORGIA811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

UTILITY PLANS

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
24-001

7/31/2015 GPLN

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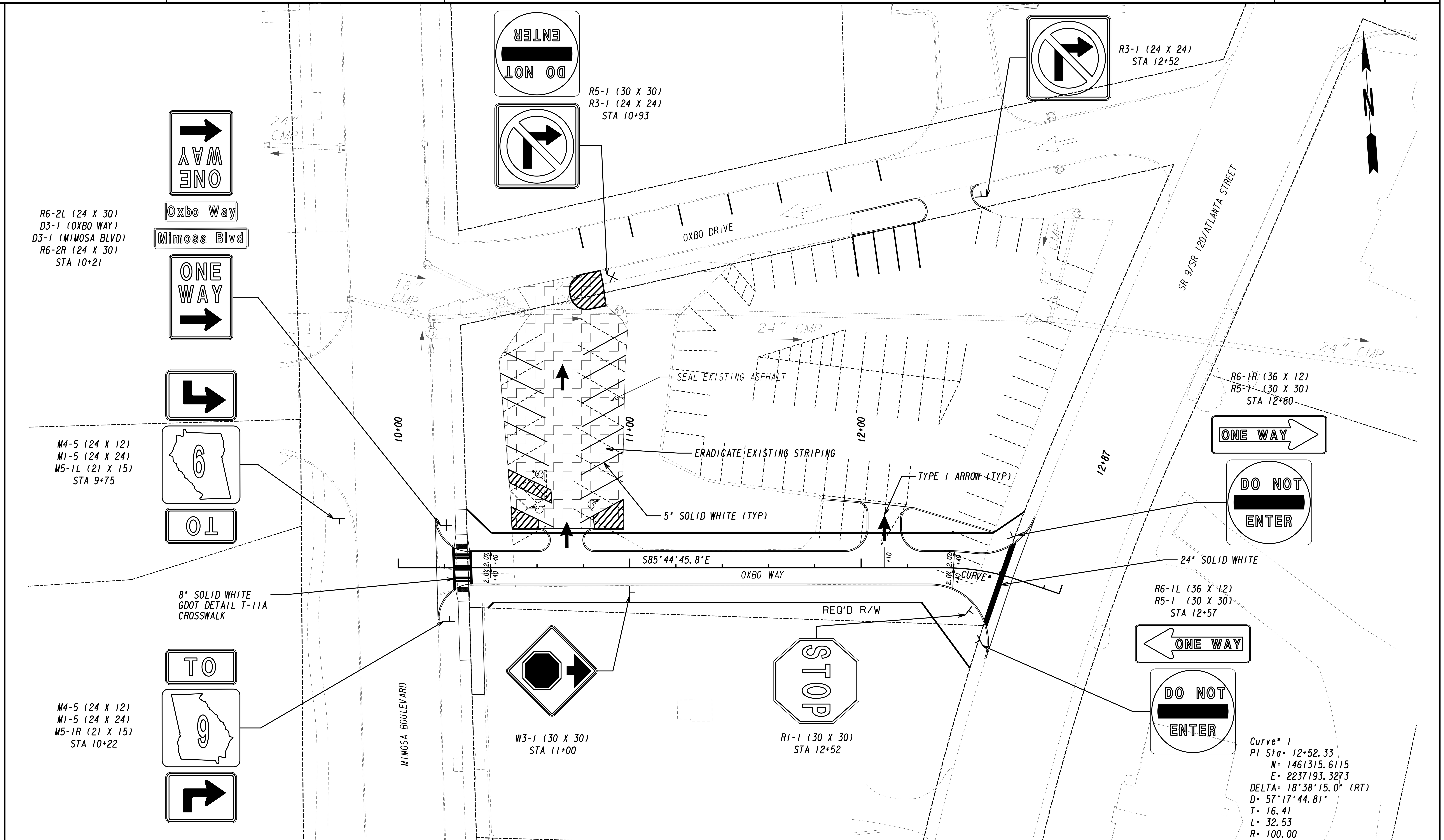


R5-1 (30 X 30)
R3-1 (24 X 24)
STA 10+93
R3-1 (24 X 24)
STA 12+52
DO NOT ENTER
ONE WAY
Oxbo Way
Mimosa Blvd
R6-2L (24 X 30)
D3-1 (OXBO WAY)
D3-1 (MIMOSA BLVD)
R6-2R (24 X 30)
STA 10+21
24" CMP
18" CMP
15" CMP
OXBO DRIVE
SR 9/SR 120/ATLANTA STREET
N
SEAL EXISTING ASPHALT
ERADICATE EXISTING STRIPING
5" SOLID WHITE (TYP)
TYPE 1 ARROW (TYP)
10+00
11+00
12+00
12+87
R6-1R (36 X 12)
R5-1 (30 X 30)
STA 12+60
M4-5 (24 X 12)
M1-5 (24 X 24)
M5-1L (21 X 15)
STA 9+75
TO
6
S85°44'45.8"E
OXBO WAY
CURVE
24" SOLID WHITE
8" SOLID WHITE
GDOT DETAIL T-11A
CROSSWALK
REQ'D R/W
R6-1L (36 X 12)
R5-1 (30 X 30)
STA 12+57
M4-5 (24 X 12)
M1-5 (24 X 24)
M5-1R (21 X 15)
STA 10+22
MIMOSA BOULEVARD
W3-1 (30 X 30)
STA 11+00
STOP
R1-1 (30 X 30)
STA 12+52
Curve 1
PI Sta= 12+52.33
N= 1461315.6115
E= 2237193.3273
DELTA= 18°38'15.0" (RT)
D= 57°17'44.81"
T= 16.41
L= 32.53
R= 100.00

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

SIGNING AND MARKING PLANS

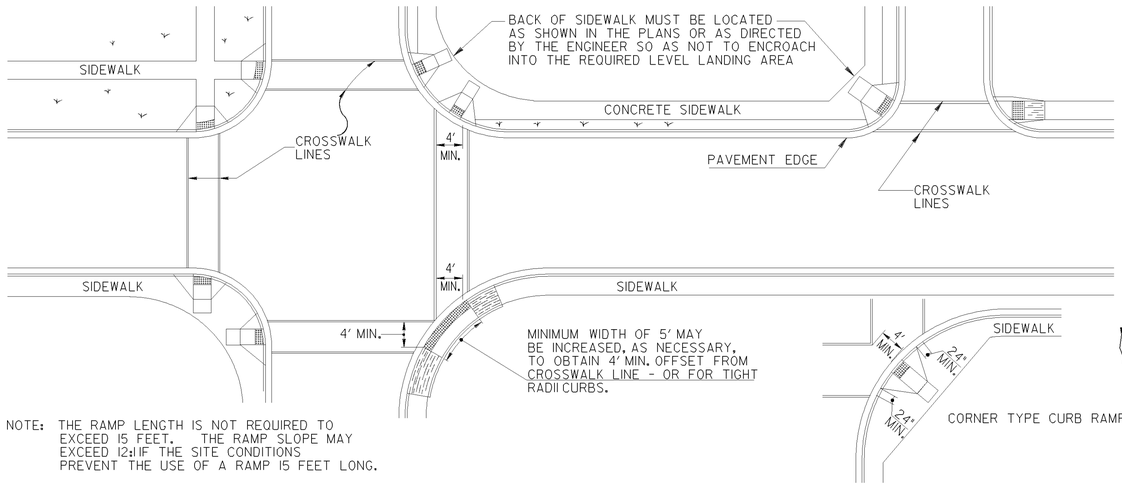
CHECKED: DATE:
BACKCHECKED: DATE:
CORRECTED: DATE:
VERIFIED: DATE:

DRAWING No.
26-001

7/31/2015 GPLN

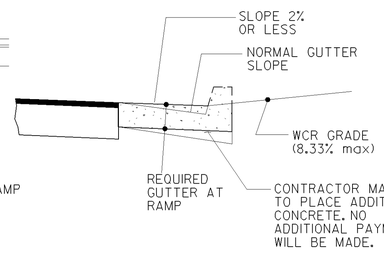
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW

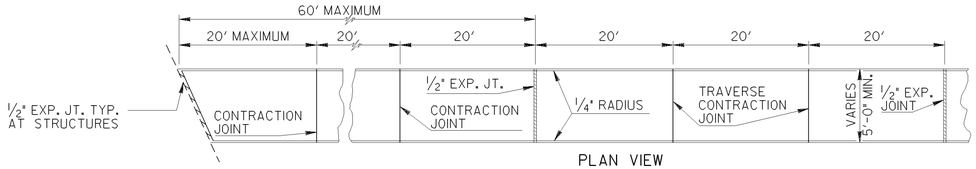


NOTE: THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.

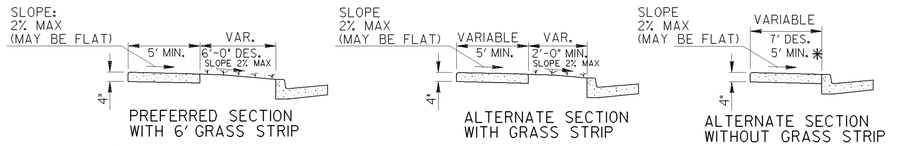
GUTTER TRANSITION DETAIL



CONCRETE SIDEWALK DETAILS



PLAN VIEW



NOTES FOR CONCRETE SIDEWALK:

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 ¼" RADIUS.
C. ½" EXPANSION JOINTS SHALL BE PLACED, WHERE SIDEWALK 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 RAMPS 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 REMOVAL OF THE PAVEMENT.
8. DETECTABLE WARNING SURFACES ARE REQUIRED ON ALL INTERSECTIONS WITH PUBLIC STREETS, SIGNALIZED COMMERCIAL DRIVEWAYS, AND COMMERCIAL DRIVEWAYS WITH AN AADT OF 25 VPD.

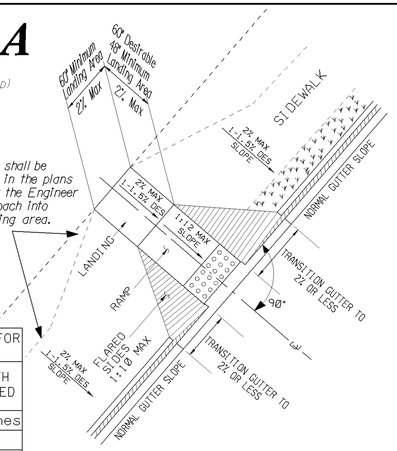
This Detail Replaces Ga Standard 9031W

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.

Type A

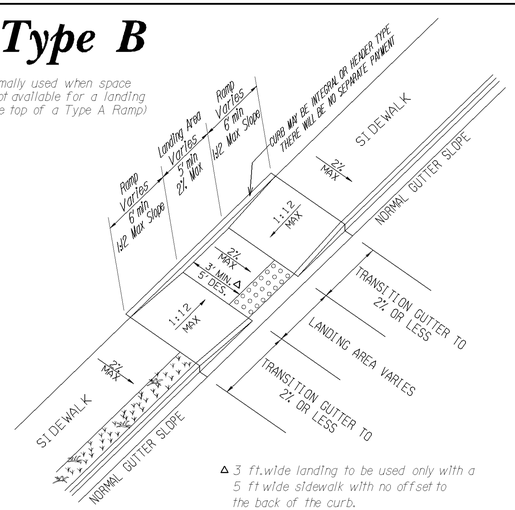
(The Prefered Ramp)



LENGHT REQUIRED FOR A 1:10 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	10 inches
2 inches	1'-8"
3 inches	2'-6"
4 inches	3'-4"
5 inches	4'-2"
6 inches	5 feet

Type B

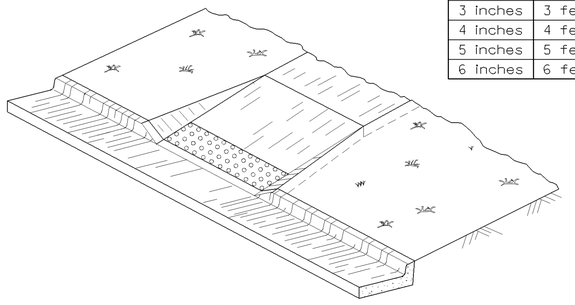
(Normally used when space is not available for a landing at the top of a Type A Ramp)



Δ *3 ft. wide landing to be used only with a 5 ft wide sidewalk with no offset to the back of the curb.*

Type D

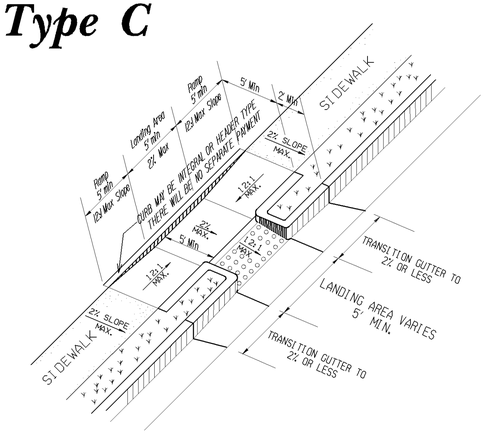
(Normally used when the sidewalk ties directly into the crosswalk)



IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 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.

LENGHT REQUIRED FOR A 1:12 SLOPE	
DIFFERENCE IN HEIGHT	LENGTH REQUIRED
1 inch	1 foot
2 inches	2 feet
3 inches	3 feet
4 inches	4 feet
5 inches	5 feet
6 inches	6 feet

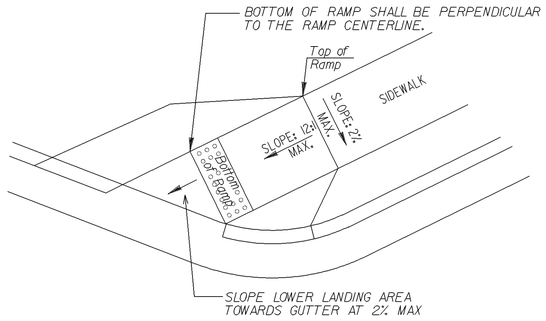
Type C

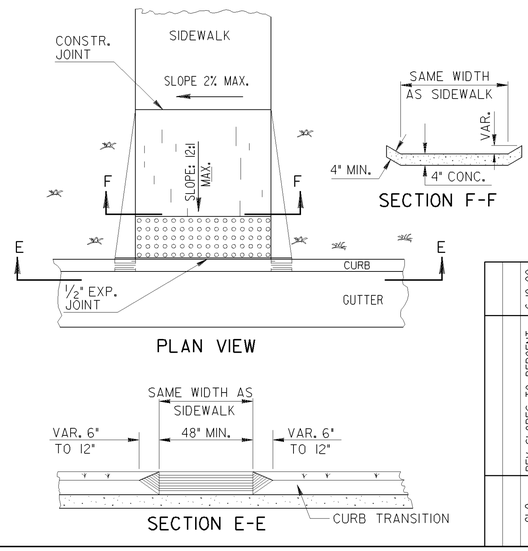


Skewed Ramp Details

(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% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.





DATE	REVISION	
6-18-09	REV. SLOPES TO PERCENT AND ADDED 12:1 & 10:1 CHART. ADDED GEN. NOTE NO. 8.	GLO
5-10-06	REV. TRUNCATED DOMES	GLO
2-21-03	REVISED	
2-10-03	REVISED	
7-29-02	REVISED	
5-29-02	REVISED	
5-23-02	REVISED	
5-13-02	REVISED	
4-29-02	REVISED	
4-11-02	REVISED	
4-3-02	REVISED	
3-28-02	REVISED	

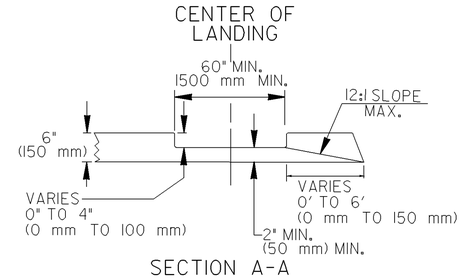
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL
CONCRETE SIDEWALK DETAILS
CURB CUT (WHEELCHAIR) RAMPS

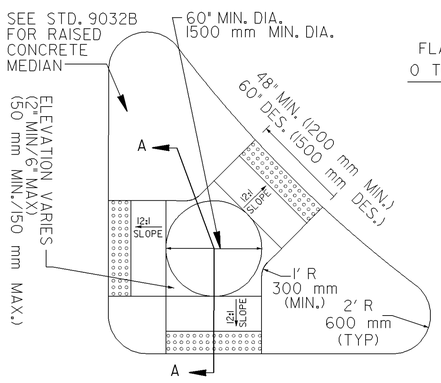
NO SCALE — MARCH 12, 2002

NUMBER A3

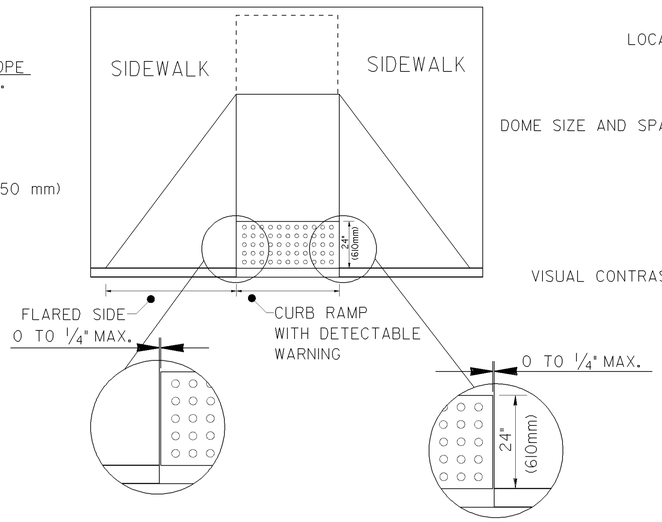
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION A-A



CONCRETE ISLAND WITH ELEVATED CUT THROUGH



SIZE: DETECTABLE WARNINGS SHALL BE 24 INCHES (610 mm) IN THE DIRECTION OF PEDESTRAIN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

LOCATION: THE DETECTABLE WARNING SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE OR OTHER POTENTIAL HAZARD IS 6 TO 8 INCHES (150 mm to 180mm) FROM THE CURB LINE OR OTHER POTENTIAL HAZARD, SUSH AS A REFLECTIVE POOL EDGE OR THE DYNAMIC ENVELOPE OF RAIL OPERATIONS.

DOME SIZE AND SPACING: TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 INCH TO 1.4 INCH (23mm-36mm) AT THE BOTTOM, A DIAMETER OF 0.45 INCH TO 0.91 INCH (11mm-23mm) AT THE TOP, THE TOP DIAMETER SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMENTER, A HEIGHT OF 0.2 INCH (5.1mm) AND A CENTER-TO-CENTER SPACING OF 2.40 INCHES (61mm) DESIRABLE 1.60 INCHES (41mm) MINIMUM MEASURED ALONG ONE SIDE OF A SQUARE ARRANGEMENT. DOMES SHALL HAVE A SQUARE ARRANGEMENT. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.

VISUAL CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE VISUAL CONTRACT SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.

MATERIALS:

NEW CONSTRUCTION

THE DETECTABLE WARNINGS SHALL BE MADE OF MATERIALS SPECIFIED ON QPL 87.

RETROFIT OF EXISTING RAMPS

SURFACED APPLIED MATERIALS WILL ONLY BE APPROVED TO BE USED ON EXISTING WHEELCHAIR RAMPS.

INSTALLATION:

BRICK PAVERS SHALL BE SET IN A WET MORTAR BED. THE BED SHALL BE PLACED ON CONCRETE. THE CONCRETE SHALL BE A MINIMUM OF 4" THICK.

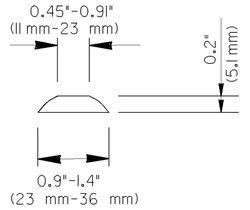
CERAMIC TILE SHALL BE EPOXIED IN PLACE OR SET IN A WET MORTAR BED. MANUFACTURER RECOMMEND ADHESIVE OR FASTENER SHALL BE USED IN THE INSTALLATION.

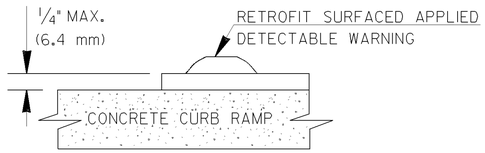
ALL OTHER MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURES DETAILS OR INSTRUCTION.

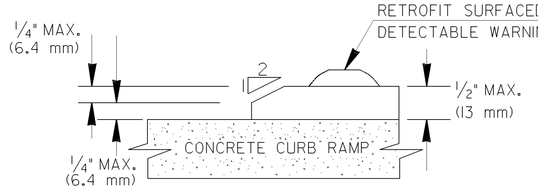
GENERAL NOTES:

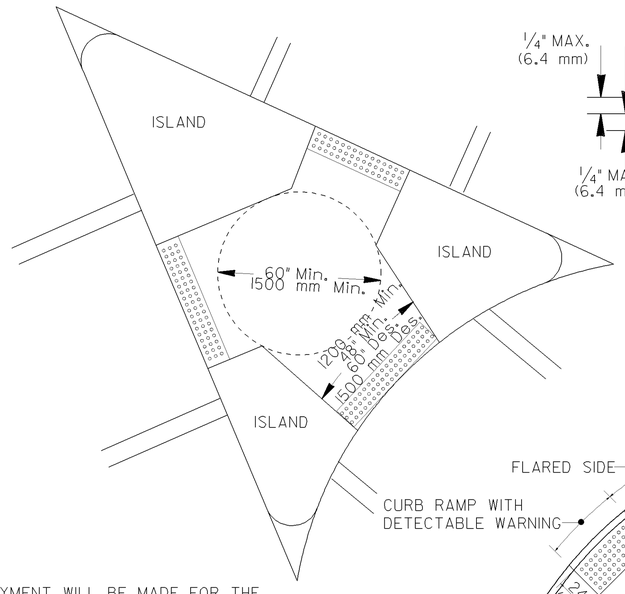
RETROFIT SURFACED APPLIED MATERIALS ONLY:

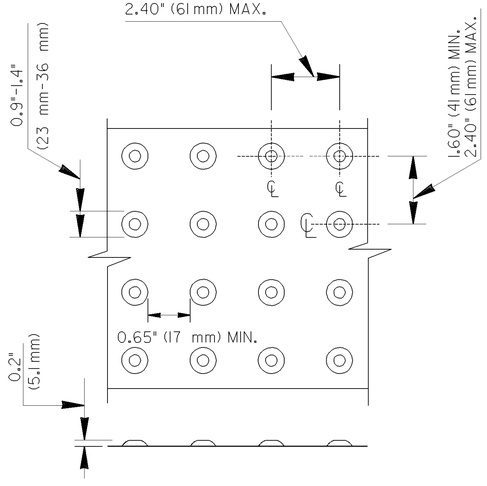
1. CHANGES IN LEVEL OF 1/4" (6.4 mm) HIGH MAXIMUM SHALL BE PERMITTED VERTICALLY ON SURFACED APPLIED MATERIALS.
2. CHANGES IN LEVEL BETWEEN 1/4" (6.4 mm) HIGH MINIMUM AND 1/2" (13mm) HIGH MAXIMUM SHALL BE BELEVELED WITH A SLOPE NOT STEEPER THAN 2:1.

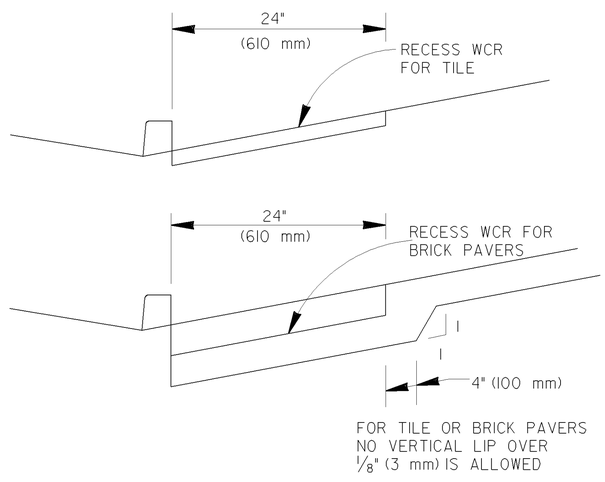








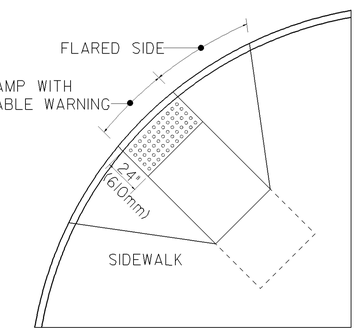




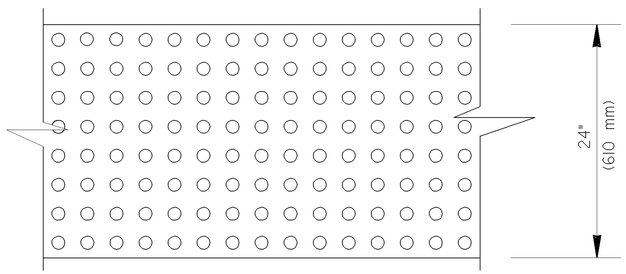
FOR TILE OR BRICK PAVERS NO VERTICAL LIP OVER 1/8" (3 mm) IS ALLOWED

NO SEPARATE PAYMENT WILL BE MADE FOR THE DETECTABLE WARNINGS. THE COST SHALL BE INCLUDED IN THE PRICE BID FOR SIDEWALK (OR CURB CUT RAMP IF THE ITEM IS INCLUDED IN THE PROPOSAL).

FOR CUT-THRU ISLANDS AND EXISTING RAMPS, WHERE NO SIDEWALK OR CURB CUT RAMPS ARE IN THE PROPOSAL. THE COST OF THE DETECTABLE WARINGS SHALL BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED.



DETAIL FOR DETECTABLE WARNING AT CUT-THRU CONCRETE ISLAND



BY	REVISION	DATE
GLO	ADDED RETROFIT DETAIL AND ADDED ALT. RAMP DETAIL AND GEN. NOTES	6-18-09
GLO	ADDED TOLERANCE TO DTL.	10-2-06
GLO	REVISED TRUNCATED DOMES AND NOTES.	5-10-06
	REVISED	11-14-02
	REVISED	7-29-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SPECIAL DETAIL

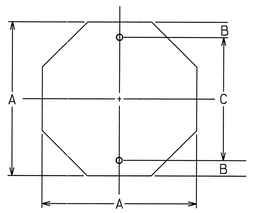
DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS

NO SCALE

MARCH 12, 2002

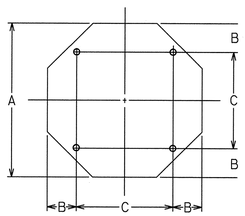
NUMBER
A4

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

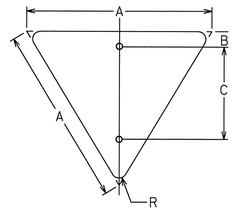


OCTAGON

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

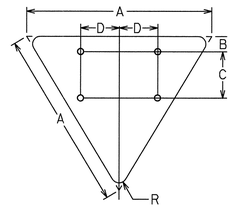


A	B	C
48	9	30

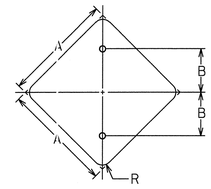


EQUILATERAL TRIANGLE

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

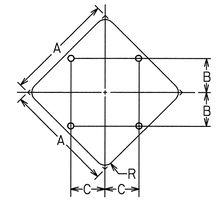


A	B	C	D	R
60	3	18	15	3



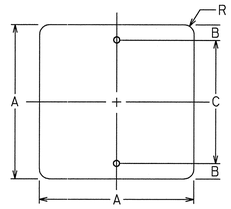
DIAMOND

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



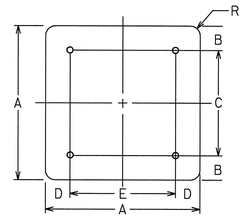
A	B	C	R
*36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

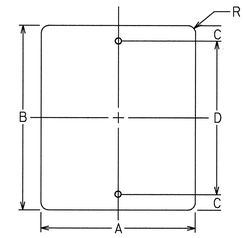


SQUARE

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

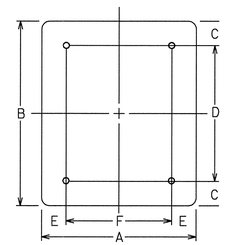


A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

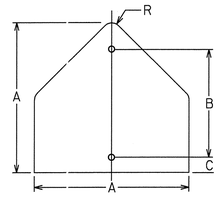


VERTICAL RECTANGLE

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

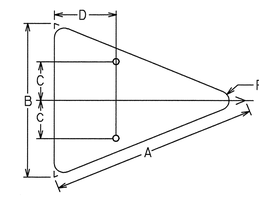


A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



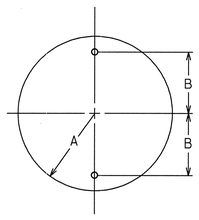
PENTAGON

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



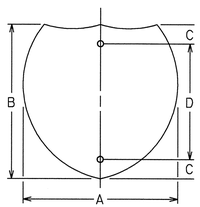
ISOSCELES TRIANGLE

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



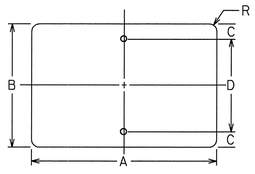
CIRCLE

A	B
15	12
18	15

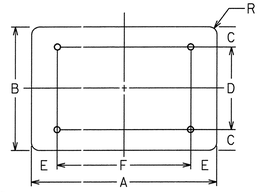


INTERSTATE SHIELD

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



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



HORIZONTAL RECTANGLE

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

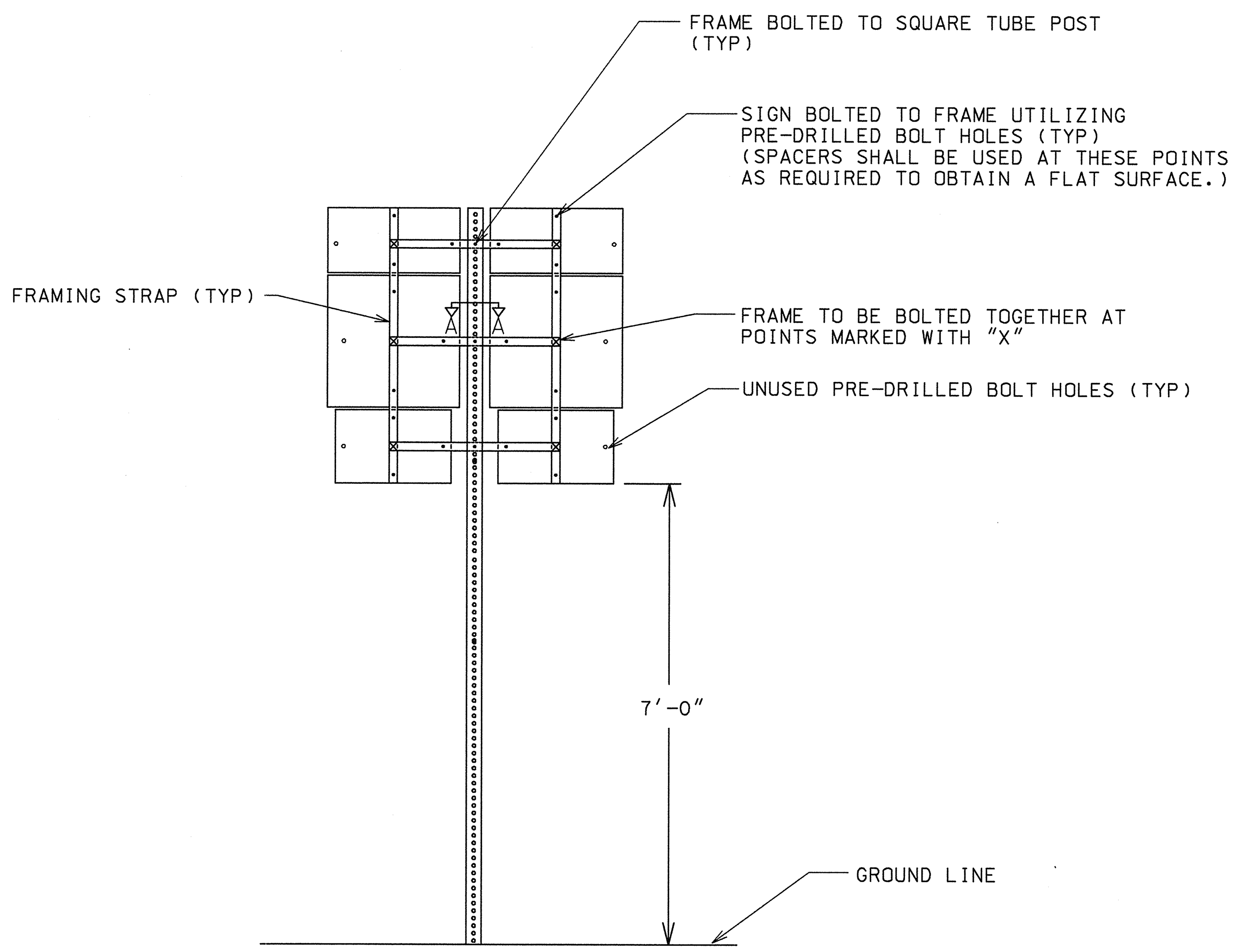
DETAILS OF SIGN PLATES

NO SCALE JANUARY 2000

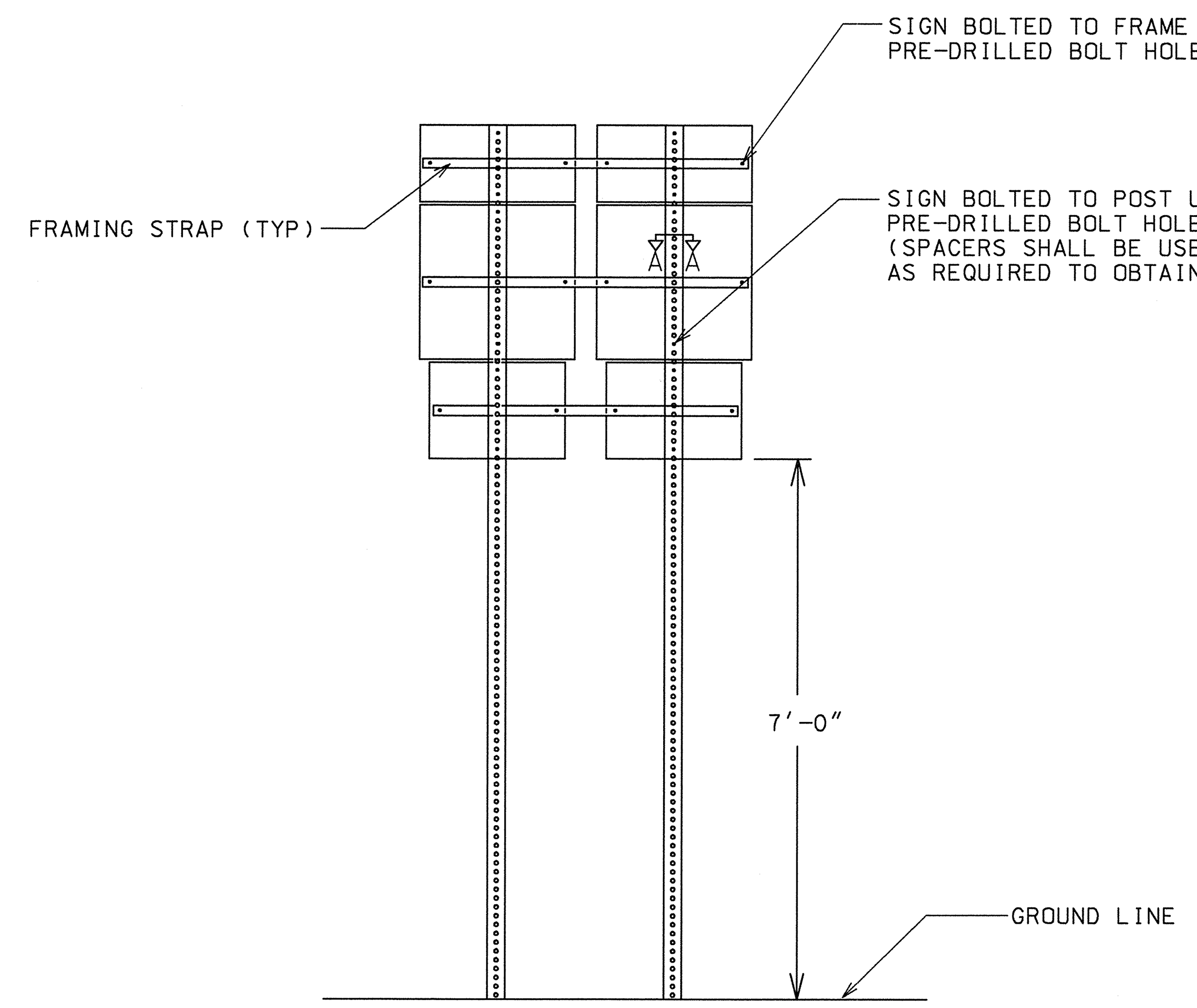
PCBDTB

...\100sign plates.dgn Jul. 03, 2002 16:10:10

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

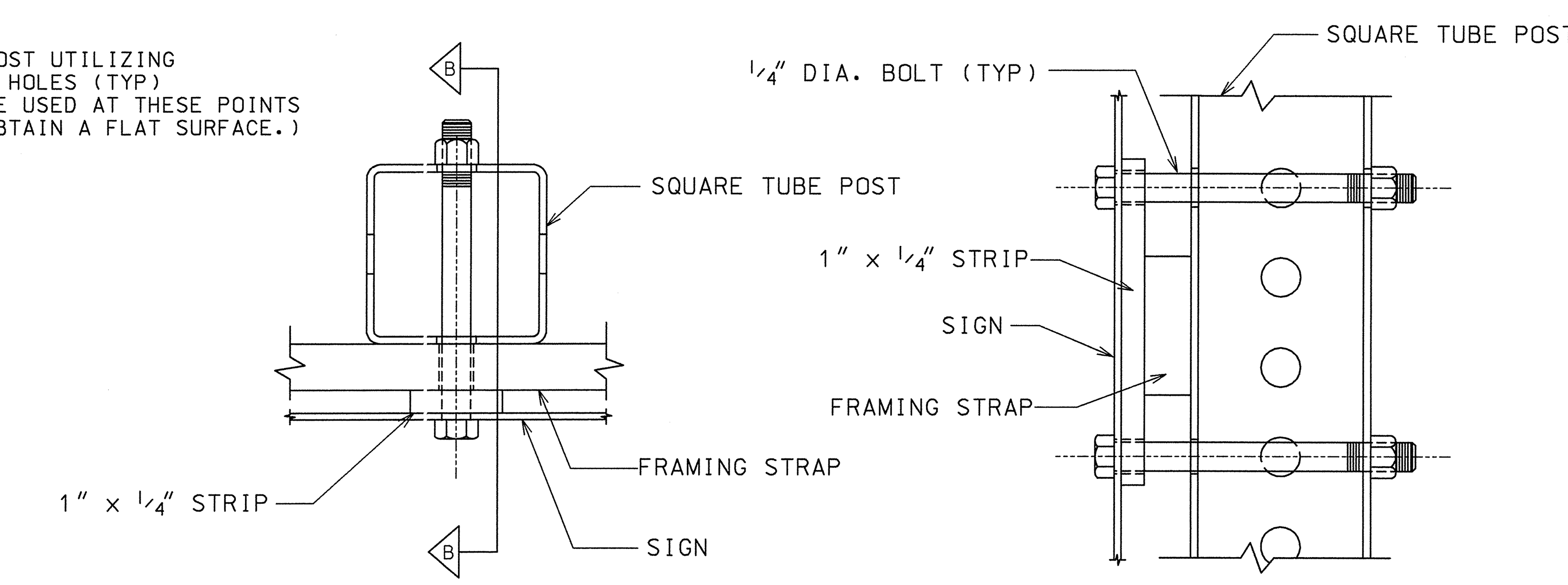


SINGLE POST ERECTION



DUAL POST ERECTION

TYPICAL ASSEMBLY UNIT (BACK VIEW)

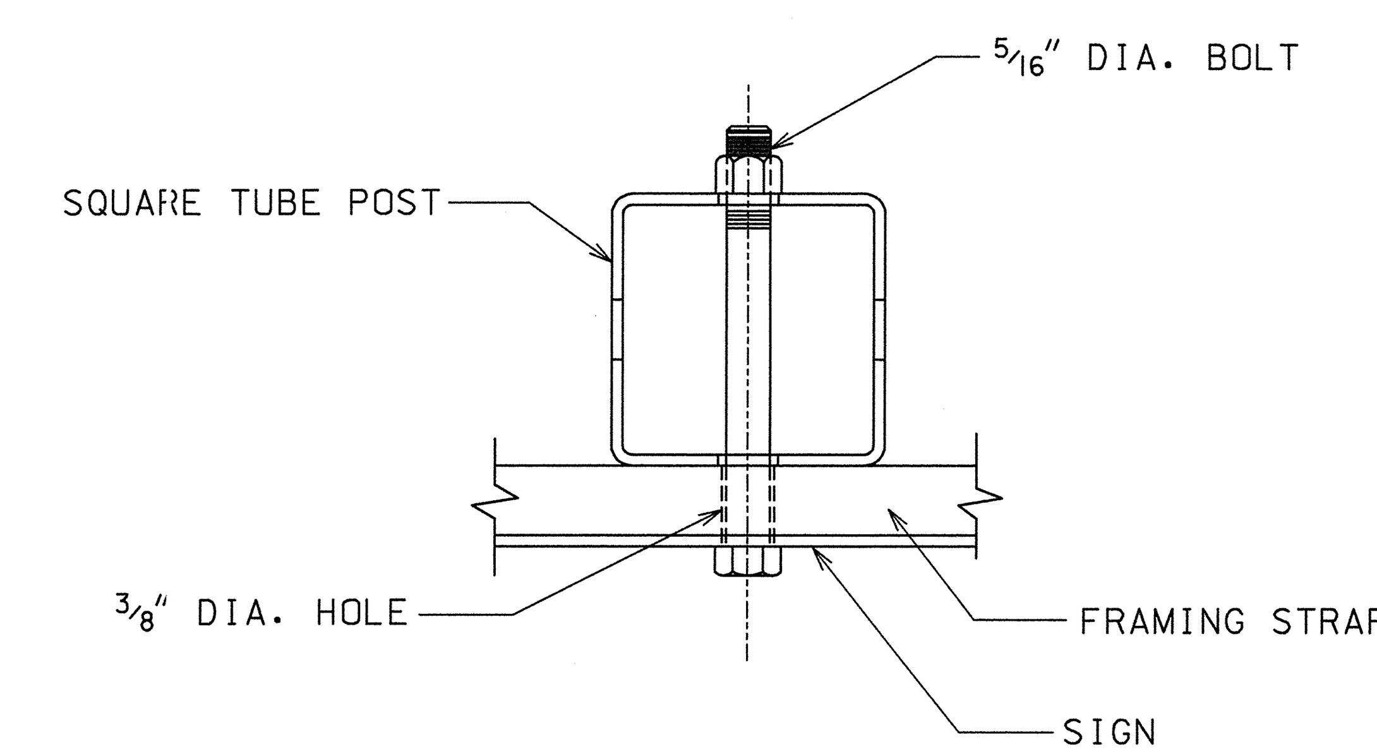


SECTION A-A

SECTION B-B (ROTATED 90°)

OPTION #1 - FRAMING STRAP WITHOUT MOUNTING HOLE

(ALL FRAMING STRAPS SHALL BE 1 1/2" x 1/2" x REQUIRED LENGTH)



OPTION #2 - FRAMING STRAP WITH MOUNTING HOLE

(ALL FRAMING STRAPS SHALL BE 2" x 1/2" x REQUIRED LENGTH)

GENERAL NOTES:

1. STYLE OF FRAMING IS OPTIONAL. ALTERNATE DESIGNS ARE ACCEPTABLE UPON APPROVAL OF THE ENGINEER. FRAME SHALL BE DESIGNED SO AS TO HOLD THE ASSEMBLY IN A FIXED, RIGID POSITION.
2. FRAMING STRAPS SHALL BE GALVANIZED STEEL OR ALUMINUM.
3. STEEL SHALL BE A.S.T.M. DESIGNATION A-283, GRADE D, GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-123.
4. ALUMINUM SHALL BE ALLOY 6061-T6.
5. BOLTS, NUTS, WASHERS, AND SPACERS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
6. FRAMING STRAPS ON A DUAL POST ERECTION SHALL NOT BE BOLTED TO THE POST.

DATE	REVISIONS
3/31/00	CHANGED U-CHANNEL POST TO SQUARE TUBE POST

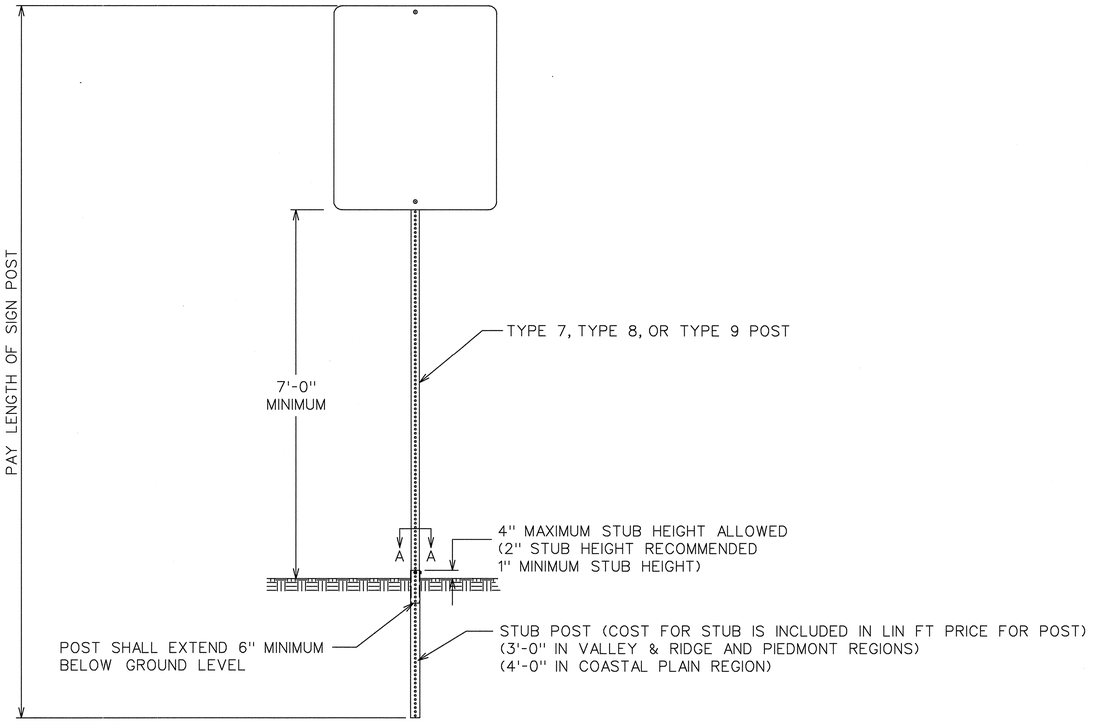
GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC OPERATIONS

DETAILS FOR TYPICAL FRAMING

NO SCALE JANUARY 2000

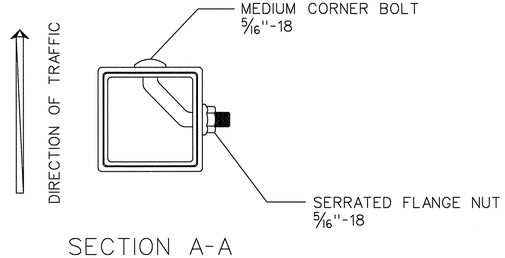
PCBOTB

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



FRONT VIEW

POST	STUB SIZE
TYPE 7	$2\frac{1}{4}$" x $2\frac{1}{4}$"
TYPE 8	$2\frac{3}{4}$" x $2\frac{3}{4}$"
TYPE 9	$2\frac{1}{2}$" x $2\frac{1}{2}$"



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

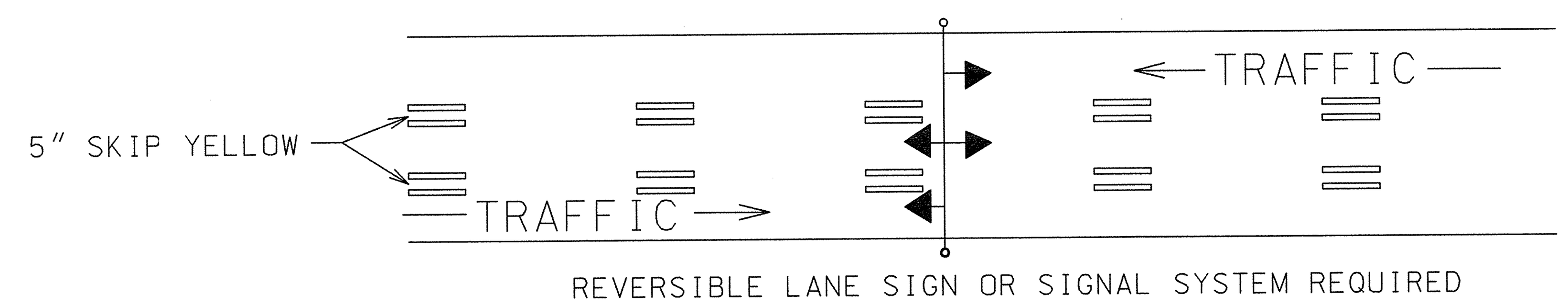
NO SCALE JULY 2002

T-3A

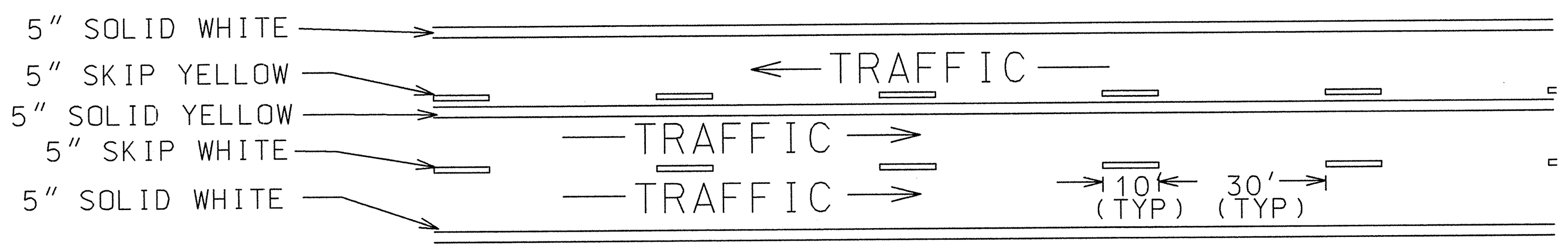
PCBDTB

...\t03dist09.dgn Jul. 03, 2003 16:10:11

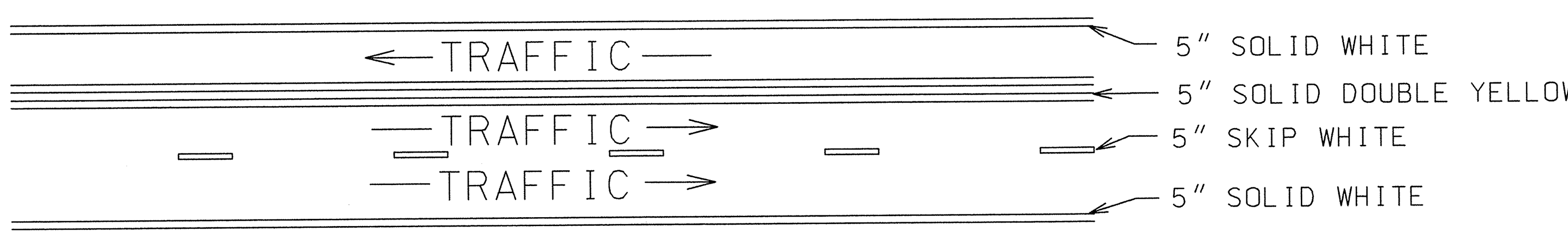
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



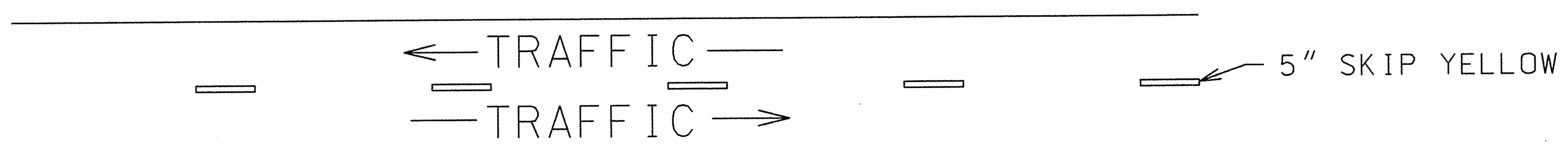
TWO-WAY TRAFFIC WITH A REVERSIBLE CENTER LANE



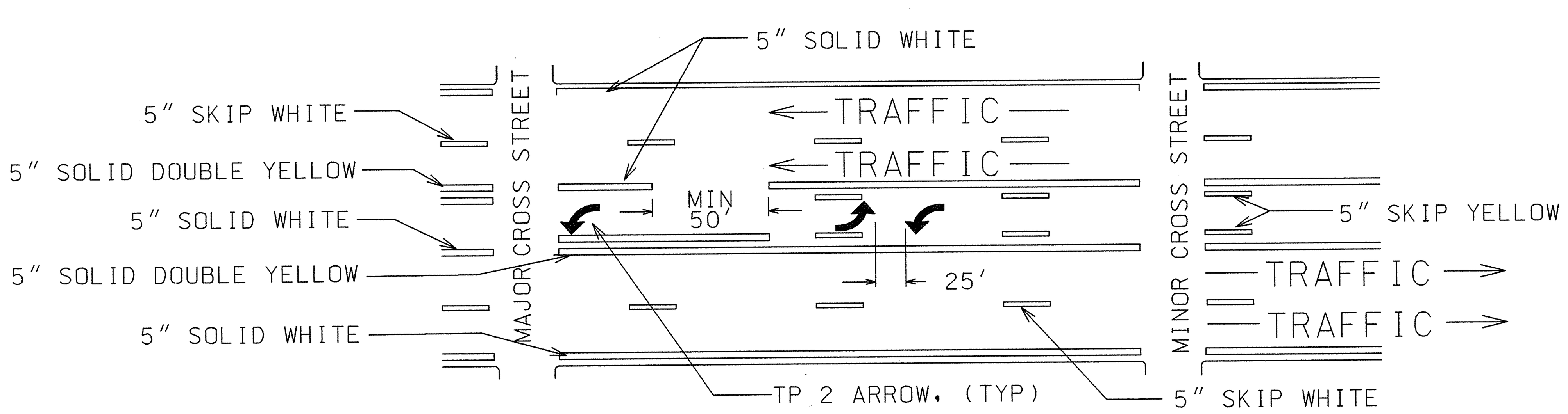
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE PERMITTED TO PASS



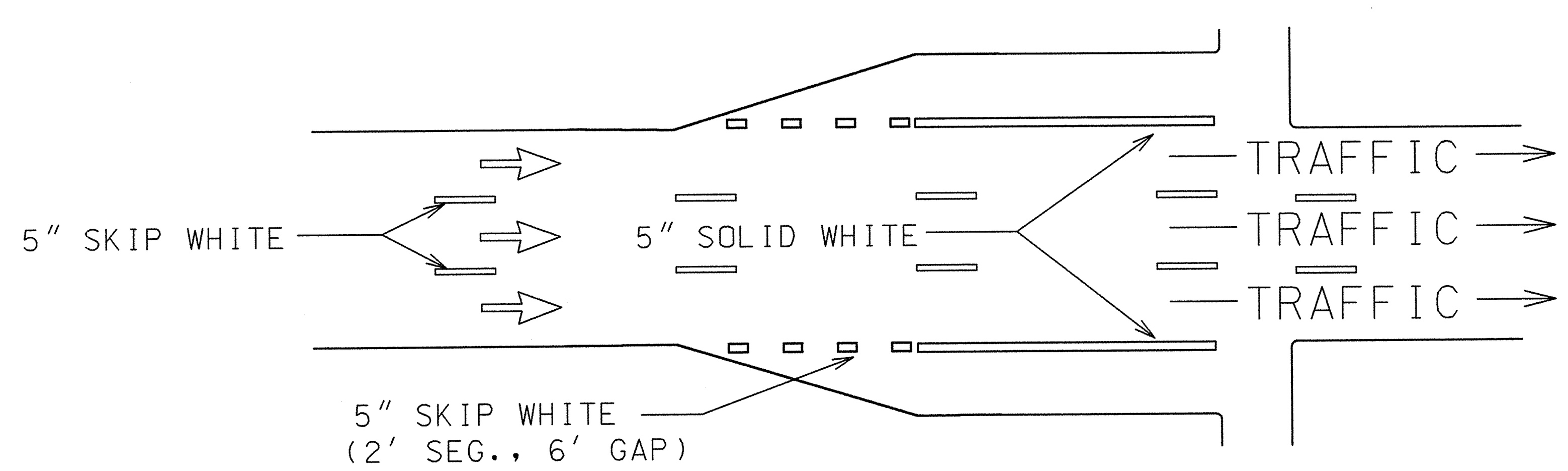
TWO-WAY TRAFFIC WHERE MOTORISTS IN A SINGLE LANE ARE NOT PERMITTED TO PASS



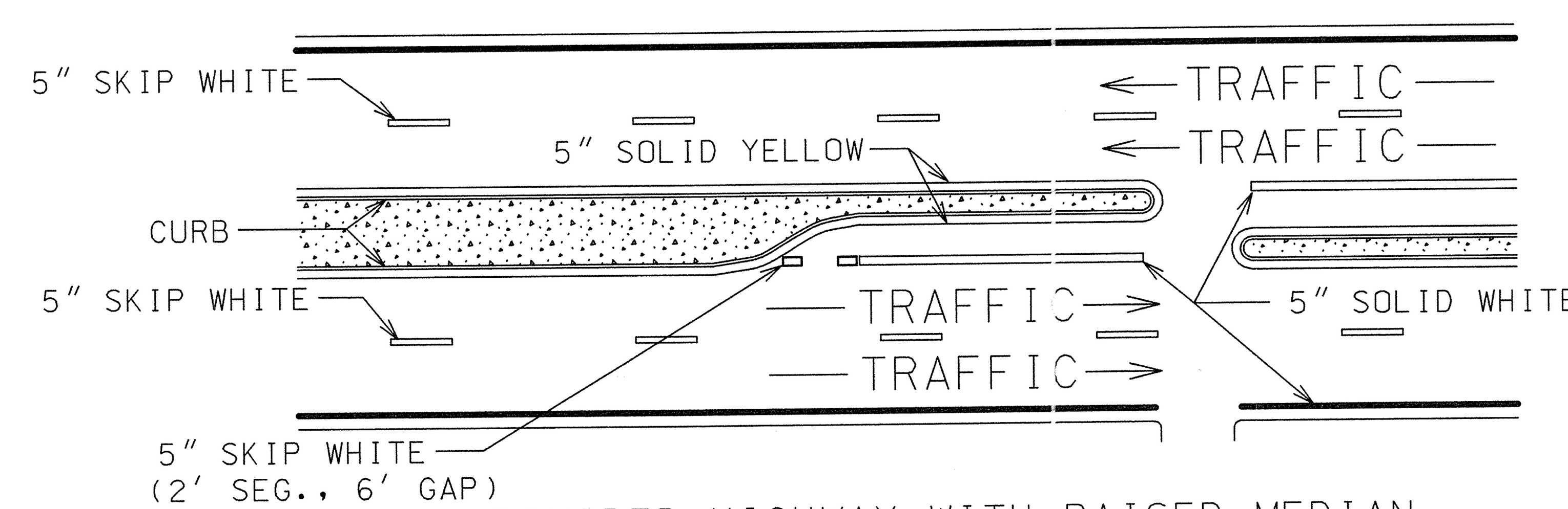
TWO-LANE, TWO-WAY TRAFFIC WITH PASSING PERMITTED



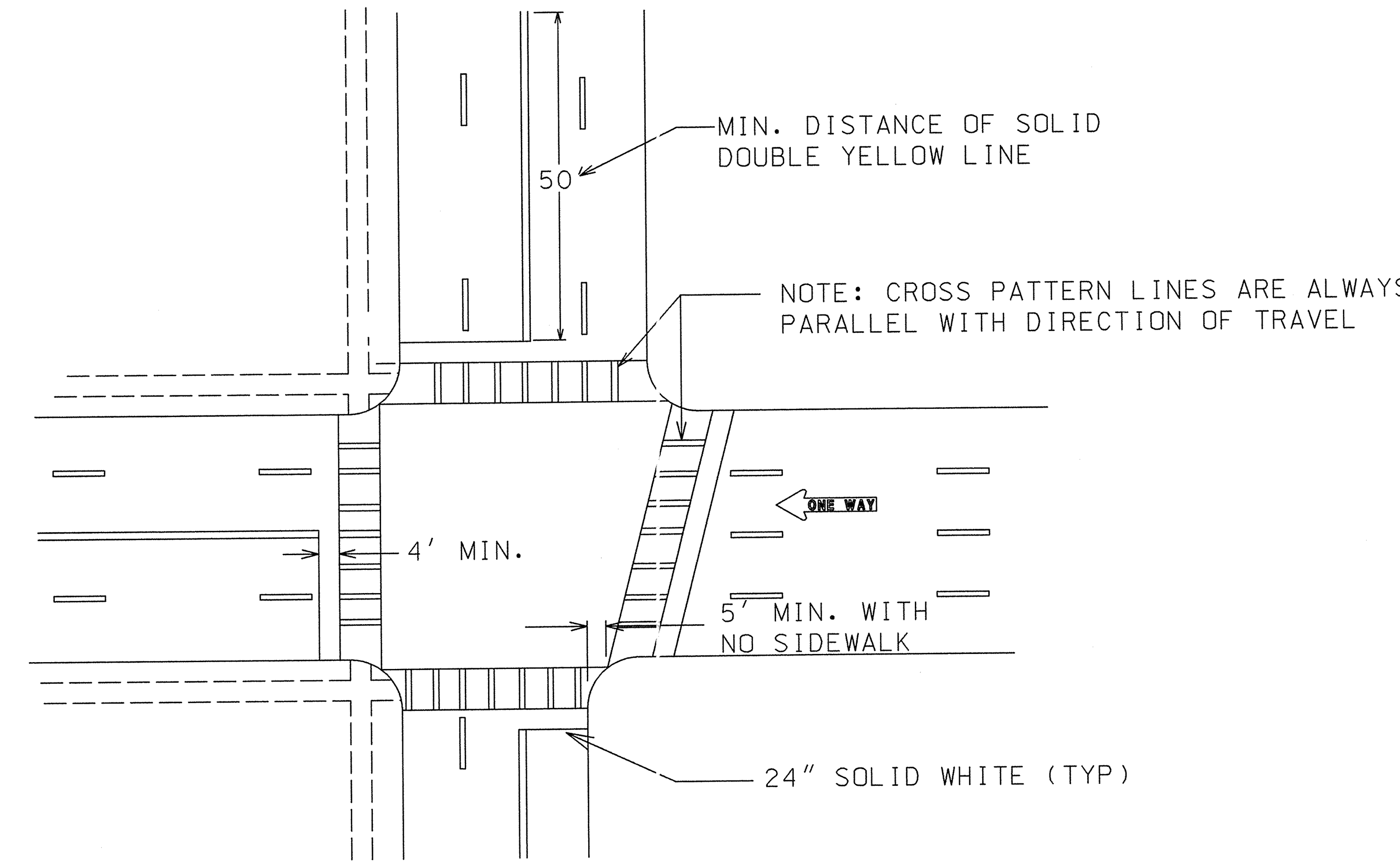
MULTI-LANE, TWO-WAY TRAFFIC WITH SINGLE LANE, TWO-WAY LEFT TURN CHANNELIZATION



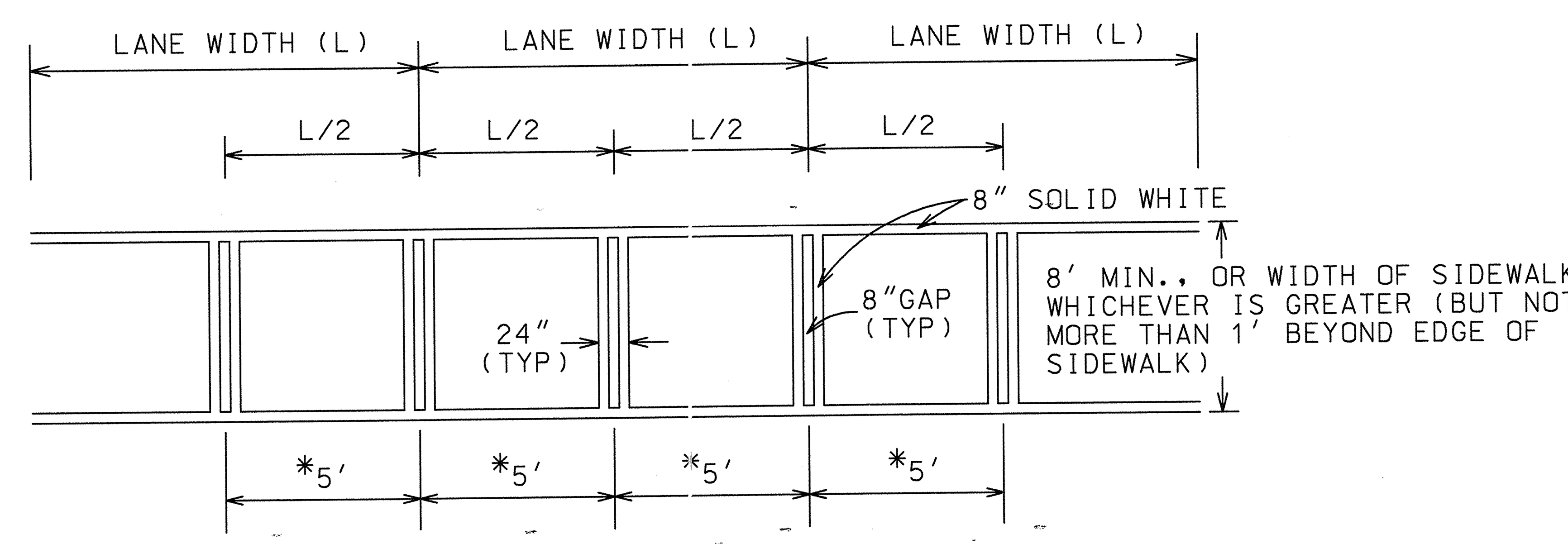
ONE-WAY TRAFFIC WITH ADDED TURN LANES



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

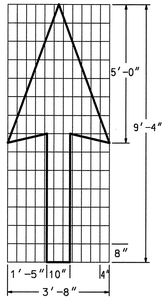
DETAILS OF
PAVEMENT MARKING PLACEMENT
NON-LIMITED ACCESS ROADWAY

NO SCALE JANUARY 2000

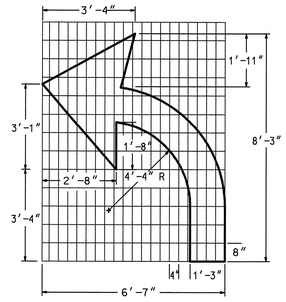
T-11A

PCBOTB

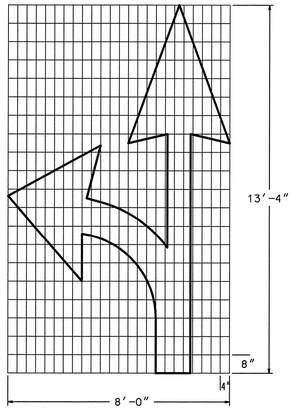
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



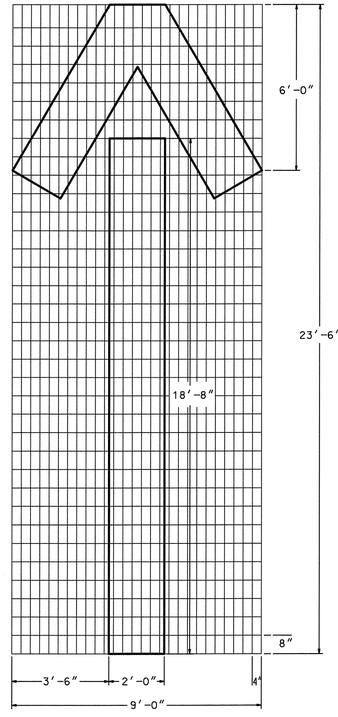
PAVEMENT MARKING, ARROW, TYPE 1
WHITE
(12.0 SQ. FT.)



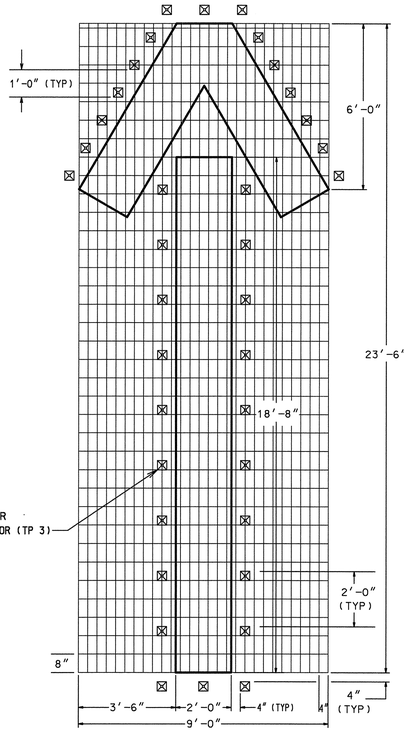
PAVEMENT MARKING, ARROW, TYPE 2
WHITE
(16.0 SQ. FT.)



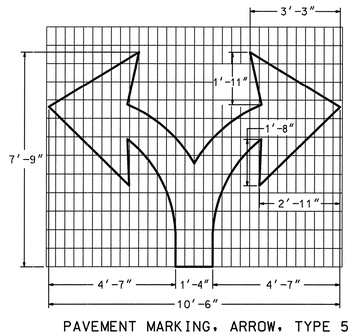
PAVEMENT MARKING, ARROW, TYPE 3
WHITE
(28.5 SQ. FT.)



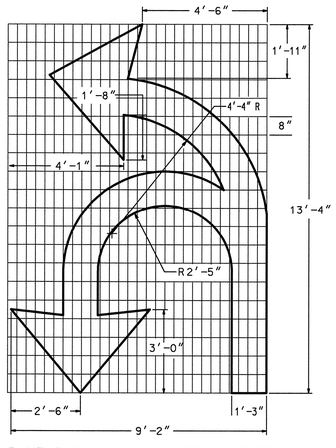
PAVEMENT MARKING, ARROW, TYPE 4
WHITE
(64.5 SQ. FT.)



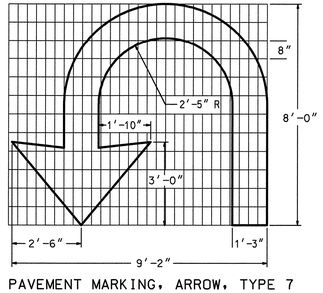
PAVEMENT MARKING, ARROW, WRONG WAY
WHITE
(64.5 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 5
WHITE
(25.5 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 6
WHITE
(42.0 SQ. FT.)



PAVEMENT MARKING, ARROW, TYPE 7
WHITE
(26.0 SQ. FT.)

ARROW- WHITE REFLECTORIZED PAINT THERMOPLASTIC, AS SPECIFIED BY GEORGIA STANDARD SPECIFICATIONS, SECTION 655.

DATE	REVISIONS
4-11-00	CHANGED LOCATION OF RPMs ON WRONG WAY ARROW

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

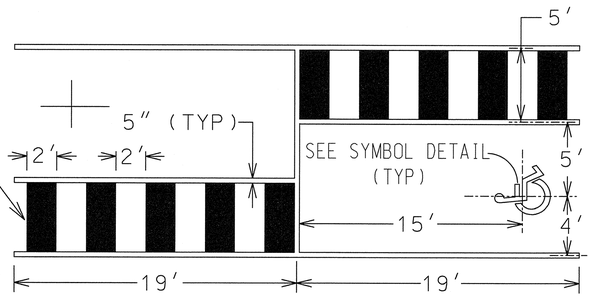
DETAILS OF
PAVEMENT MARKINGS-ARROWS

NO SCALE JANUARY 2000

PCBDTB

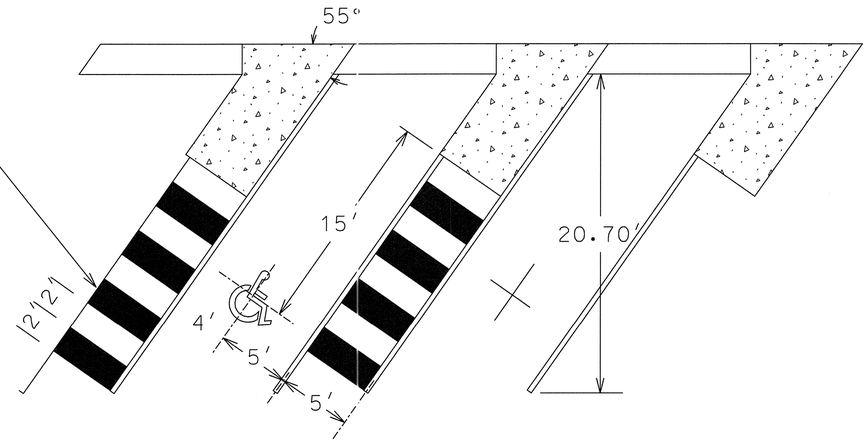
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REQ'D. 6.22 SQ. YDS.- WHITE *
(PER EACH PARKING SPACE)



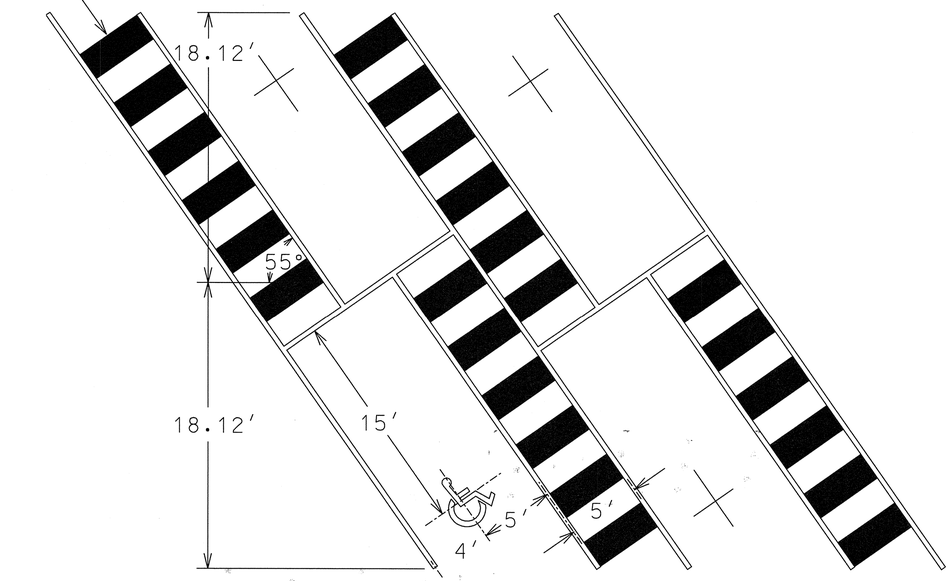
PERPENDICULAR PARKING

REQ'D. 4.15 SQ. YDS.- WHITE *
(PER EACH PARKING SPACE)

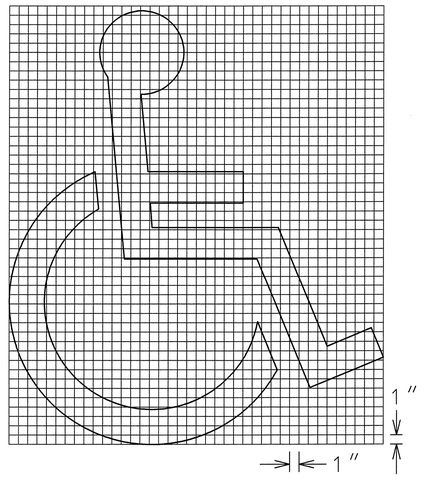


SINGLE ROW 55° ANGULAR PARKING
WITH RAMP

REQ'D. 5.19 SQ. YDS.- WHITE *
(PER EACH PARKING SPACE)



DOUBLE ROW 55° ANGULAR PARKING



HANDICAPPED SYMBOL DETAIL
- NO SCALE -

* SQ. YDS. STRIPING MEASUREMENT SHALL BEGIN AND END WITH A MARKED STRIPE AND SHALL NOT INCLUDE PARKING LANE LINES. PARKING LANE LINES SHALL BE PAID FOR PER LINEAR FOOT.

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF
HANDICAPPED PAVEMENT
MARKINGS

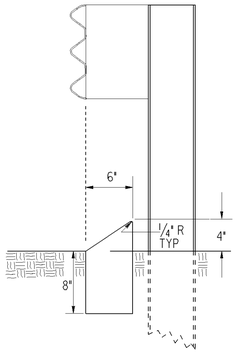
NO SCALE JANUARY 2000

PCBOTB

...\T18\handicapped.dgn Jan. 03, 2003 15:10:19

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

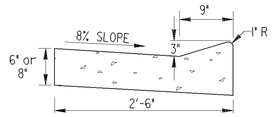
FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4012C.

RAISED EDGE WITH CONCRETE GUTTER



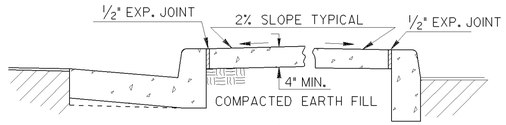
SCALE: 1" = 1FT.

RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

NOTE:
IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIAN (Between Curbs)

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



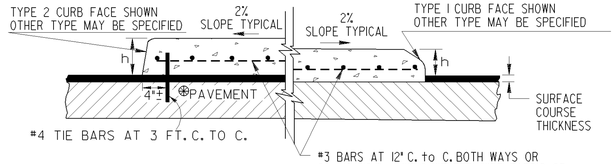
SCALE: 3/4" = 1FT.

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

CONCRETE MEDIANS (Integral)

SCALE: 1"=1FT.

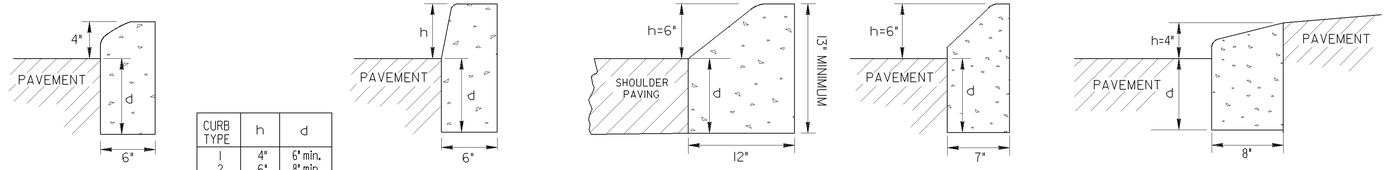
-WITH TIE BARS-



-WITHOUT TIE BARS-

NOTE:
IF FINAL SURFACE COURSE IN PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE HEADER CURBS



TYPE 1 | TYPE 2, 3 OR 4 | TYPE 6 | TYPE 7 | TYPE 9

CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

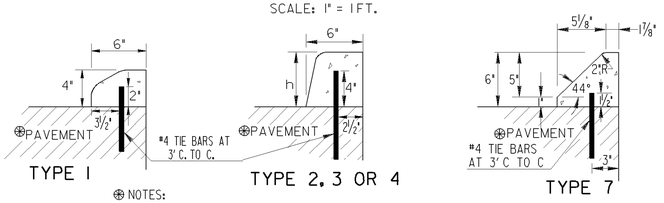
THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

TRUCK APRON IN ROUNDABOUTS

SCALE: 1 1/2" = 1FT.

CONCRETE DOWELED INTEGRAL CURBS

SCALE: 1" = 1FT.



⊕ NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INTIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLAYING CONCRETE PAVEMENT.
2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVMENT.
3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDAIN AT 20 FT. SPACING.

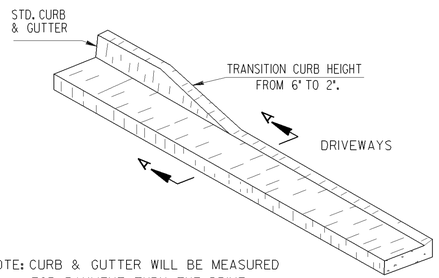
MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"

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)

DETAILS OF RECESSED CURB FOR DRIVEWAYS

NO SCALE

PICTORIAL VIEW

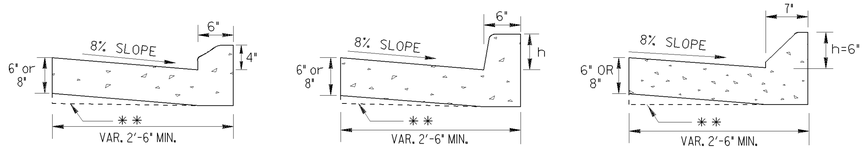


NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE

SECTIONAL VIEW SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

CONCRETE CURB & GUTTER

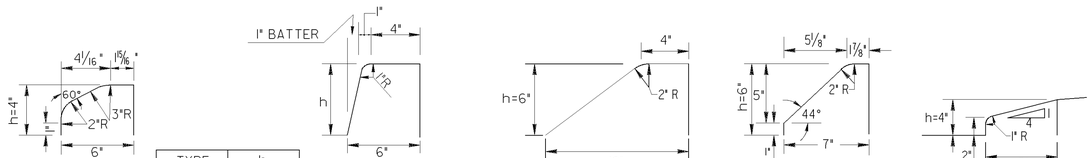


SCALE: 1"= 1FT.

TYPE 1 | TYPE 2, 3 OR 4 | TYPE 7

**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.

CURB FACE DESIGN

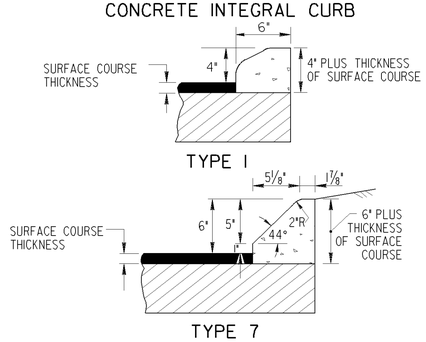


TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	6"
9	4"

TYPE 1 | TYPE 2, 3 OR 4 | TYPE 6 | TYPE 7 | TYPE 9

SCALE: 2"=1FT.

CONCRETE INTEGRAL CURB



SCALE: 1 1/2" = 1FT.

DATE	REVISION	BY
11-15-11	REV. TYPE 9 CURB DETAIL & REV. OVERALL LAYOUT	TC
1-27-11	REV. MEDIAN NOTE AND ADDED TYPE 9 CURB DETAIL	GLO
3-03	ADDED TYPE 9 DETAIL	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

SCALE: AS SHOWN REVISED AND REDRAWN OCT. 2011

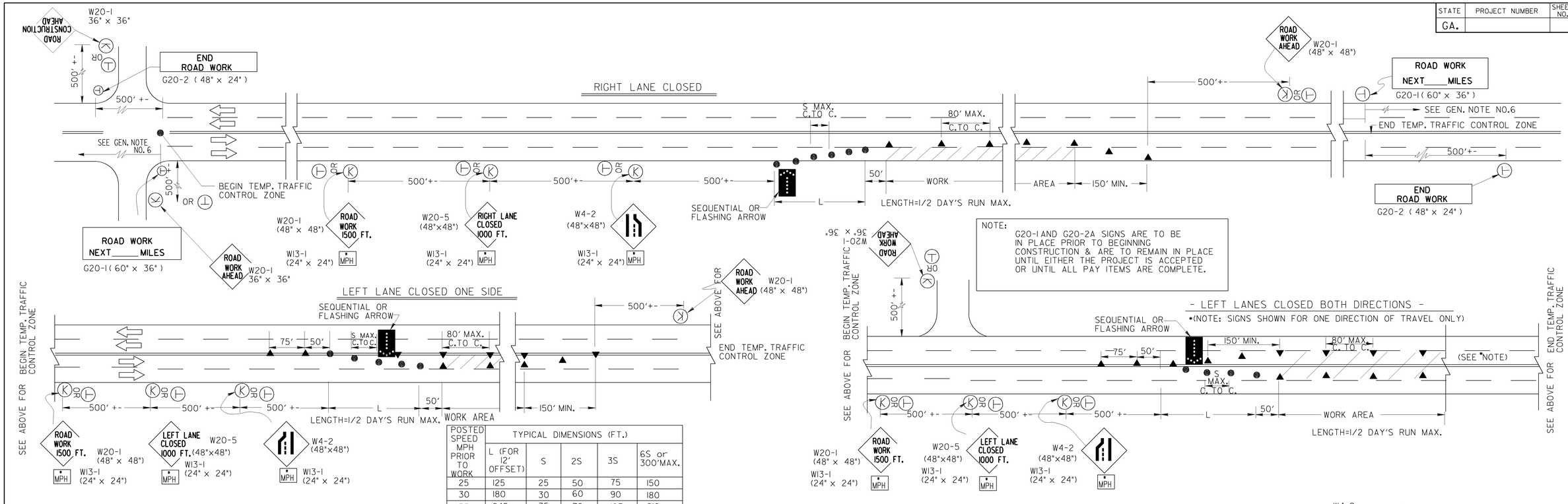
DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE DESIGN POLICY ENGINEER

(APPROVED) Donald M Rus CHIEF ENGINEER

NUMBER 9032B

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



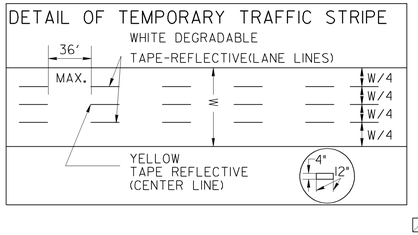
POSTED SPEED MPH PRIOR TO WORK	TYPICAL DIMENSIONS (FT.)				
	L (FOR 12' OFFSET)	S	2S	3S	6S or 300'MAX.
25	125	25	50	75	150
30	180	30	60	90	180
35	245	35	70	105	210
40	320	40	80	120	240
45	540	45	90	135	270
50	600	50	100	150	300
55	660	55	110	165	300
60	720	60	120	180	300
65	780	65	130	195	300

(SEE FORMULA FOR OTHER CONDITIONS)

FOR LOCATIONS ON THIS PROJECT INVOLVING ADDED TURN LANES, THE DISTRICT TRAFFIC OPERATIONS OFFICE WILL FURNISH A SCHEMATIC DRAWING OF THE TEMPORARY PAVEMENT MARKINGS AT THE PRE-CONSTRUCTION CONFRENCE.

(WHERE OTHER PAVEMENT MARKINGS ARE REQUIRED FOR TRAFFIC CONTROL, SEE SEC.150)

DETAIL OF TEMPORARY TRAFFIC STRIPE



- WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (WI3-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED.

STANDARD LEGEND

- ● STRIPED DRUM
- ⊢ TEMPORARY POST MOUNTED SIGN (OFF SHOULDER) --FOR LONG TERM LANE CLOSURE SUCH AS STATIONARY OPERATIONS, BRIDGE WIDENING PROJECTS ETC. - (7' MOUNT HEIGHT)
- Ⓚ PORTABLE MOUNTED SIGN (ON SHOULDER) --FOR SHORT TERM LANE CLOSURE SUCH AS MOVING OPERATIONS, RESURFACING PROJECTS, ETC. (SEE GENERAL NOTE. NO. 3)
- ▲ TRAFFIC CONE - 28" MIN. (DAYTIME USE ONLY)
- SEQUENTIAL OR FLASHING ARROW
- WORK AREA

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. A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE.
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.

GENERAL NOTES:

10. (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.
11. 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.
12. THE G20-1 SIGNS SHOULD BE PLACED AT EACH TERMINUS OF THE PROJECT, PREFERABLY BETWEEN THE LAST ADVANCE WARNING SIGN(ROAD WORK- 500 FT.) AND BEFORE THE ADVANCE WARNING SIGNS FOR LANE SHIFTS, LANE CLOSURES, ETC.

DATE	REVISION	BY
3-30-06	REMOVED FLAGS AND REV. GENERAL NOTES. REV. SIGN G20-2A TO G20-2.	GLO

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TRAFFIC CONTROL DETAIL

FOR LANE CLOSURE ON MULTI-LANE UNDIVIDED HIGHWAY

NO SCALE — REV. & REDR. JULY, 1999

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

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 9107

PRIMARY PERMITEE:
CITY OF ROSWELL
STEVE ACENBRAK
38 HILL STREET, SUITE 235
ROSWELL GA, 30076
770-594-6510

GEORGIA REGISTERED NO. 035687 PROFESSIONAL ENGINEER GREGORY J. NICOLAS

ESPCP GENERAL NOTES

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

The escape of sediment from the site shall be prevented by the installation of erosion and sedimentation control measures and practices prior to, or concurrent with, land-disturbing activities.

Erosion and sedimentation control measures will be maintained at all times during this project. If full implementation of this approved plan does not provide effective erosion and sedimentation control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

The receiving waters for this project is the Big Creek. The stream buffers are not impacted by this project.

The total disturbed area for this project is 0.19 acres. A Notice of Intent (NOI) is not required.

The Runoff Coefficient of the disturbed area before construction activities (*C Before*) is 0.70
The Runoff Coefficient of the disturbed area after constructionactivities (*C After*) is 0.66

The main construction activities involved in this project include grading, paving, and reestablishment of permanent grassing in the disturbed area.

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.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:

MAP UNIT SYMBOL	MAP UNIT NAME
Ub	Urban land
UmC2	Urban land-Madison-Bethlehem complex, 2-10% slopes, moderately eroded

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at http://websoilsurvey.nrcs.usda.gov/.

CONTOUR DISPLAY AND WATERSHED NOTE:

Due to the size and scope of this project, it is not practical to display the existing and proposed contour lines in the project vicinity on a USGS 1":2000' topographical sheet. The existing and proposed contours are shown with greater clarity on sheet 54-001 at 1":20' scale.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming and mulching for this project can be found in section 700 of the current edition of the Department's Standard Specifications (or Special Provisions) and other applicable contract documents, or landscaping plans.

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: District 4 - Fulton County

Project Name: Oxbo One-Way Pair **Address:** Oxbo Drive, Roswell, GA 30075

City/County: Roswell/Fulton **Date on Plans:** 2/5/2016

Plan Page #	Included Y/N		TO BE SHOWN ON ES&PC PLAN
51-001	Y	2	Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
51-001	Y	3	The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
51-001	Y	4	Provide the name, address and phone number of primary permittee.
51-001	Y	5	Note total and disturbed acreage of the project or phase under construction.
51-001	Y	6	Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
51-001	Y	7	Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-001	Y	8	Description of the nature of construction activity.
01-001	Y	9	Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
	N/A	10	Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
51-001	Y	11	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.
	N/A	12	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 15 of the permit.*
	N/A	13	Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on page 26 of permit as applicable.*
	N/A	14	Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins in accordance with part IV.A.5. within 7 days after installation."*
	N/A	15	Clearly note the statement 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 or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
	N/A	16	Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
	N/A	17	Clearly note the statement 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."*
	N/A	18	Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
51-001	Y	19	Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-001	Y	20	Clearly note statement that "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."
51-001	Y	21	Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
	N/A	22	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	23	If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 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.*
	N/A	24	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.*
54-001	Y	25	Provide BMPs for the remediation of all petroleum spills and leaks.
	N/A	26	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.*

Plan Page #	Included Y/N		TO BE SHOWN ON ES&PC PLAN
	N/A	27	Description of the practices that will be used to reduce the pollutants in storm water discharges.*
51-001	Y	28	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).
	N/A	29	Provide complete requirements of inspections and record keeping by the primary permittee.*
	N/A	30	Provide complete requirements of sampling frequency and reporting of sampling results.*
	N/A	31	Provide complete details for retention of records as per Part IV.F. of the permit.*
	N/A	32	Description of analytical methods to be used to collect and analyze the samples from each location.*
	N/A	33	Appendix B rationale for NTU values at all outfall sampling points where applicable.*
	N/A	34	Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.*
	N/A	35	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. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase.*
54-001	Y	36	Graphic scale and North arrow.
54-001	Y	37	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
	N/A	38	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.
	N/A	39	Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*
	N/A	40	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.
	N/A	41	Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
	N/A	42	Delineation and acreage of contributing drainage basins on the project site.
	N/A	43	Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
51-001	Y	44	An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
	N/A	45	Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
54-001	Y	46	Soil series for the project site and their delineation.
54-001	Y	47	The limits of disturbance for each phase of construction.
	N/A	48	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 justification 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. A written justification as to why 67 cubic yards of storage is not attainable must also be given. 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. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.
54-001	Y	49	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.
52-001 to 006	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.
51-001	Y	51	Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2016

24 HOUR CONTACT:
JOE VITALE
770-594-6105

GREGORY J. NICOLAS
GSWCC LEVEL II CERTIFICATION
NUMBER 0000065865

ROSWELL GEORGIA SINCE 1854

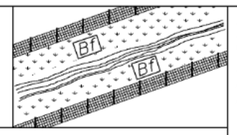
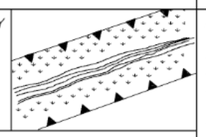
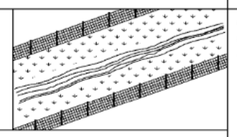
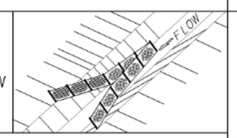
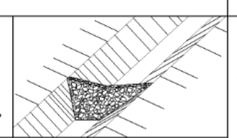
REVISION DATES

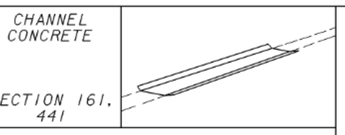
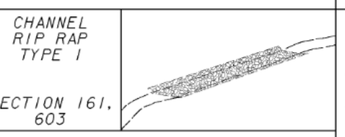
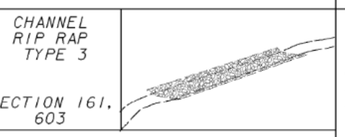
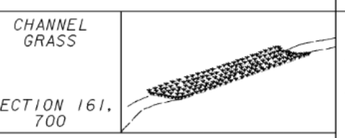
ESPCP GENERAL NOTES

CHECKED: DATE: BACKCHECKED: DATE: CORRECTED: DATE: VERIFIED: DATE:

DRAWING No. 51-001

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	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.
	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. CONTRACTOR MAY USE SANDBAG CHECK DAMS IN LIEU OF STONE CHECK DAMS. SANDBAG CHECK DAMS MUST BE USED IN CONCRETE LINED CHANNELS.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Ch-C	CHANNEL CONCRETE SECTION 161, 441	 	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
	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 Sdl-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 Sdl-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.

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
TC	UDATED DRAWING NO.	1-24-13
TC	REVISED Cd-S DESCRIPTION.	10-2-12
	REMOVED Be & Ch-Br, AND RELOCATED Ch-Rp4, Ch-RP3 AND Ch-V CODES FROM ECL&UC SHEET 2 OF 6.	
GLO	REV. Be, ADDED Bf, ESA, OBF AND Ch-F	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET

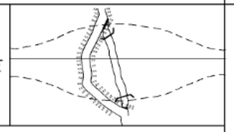
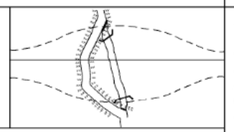
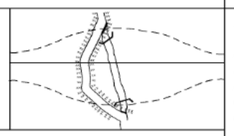
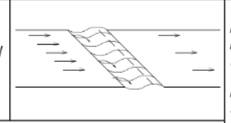
SHEET 1OF 6

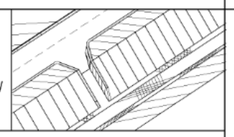
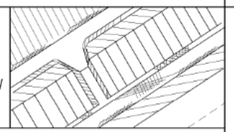
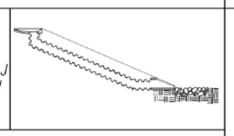
NO SCALE — JANUARY 2007

NUMBER EC-L1

DRAWING No. 52-001

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL LINE CODE Co		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 —D—D—D—(Dc-A)—D—D—D—		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 Sdl-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.
	Dc-B	DIVERSION CHANNEL GEOTEXTILE ONLY SECTION163 LINE CODE —D—D—D—(Dc-B)—D—D—D—		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 Sdl-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 —D—D—D—(Dc-C)—D—D—D—		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 Sdl-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 BERM CONSTRUCTION DETAIL SECTION 161, 205 LINE CODE DI		THIS IS A TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET. DOWN DRAINS "Dnl"OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS. SEE CHAPTER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Dnl	DOWN DRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL SECTION 163 LINE CODE —T—T—T—(Dnl)—T—T—T—		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'.
	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 TPI, D-26 TPI 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).

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
TC	UDATED DRAWING NO.	1-24-13
TC	REV. DI LABEL&DESCRIPTION, RELOCATED Dn2-A, Dn2-B, AND Dn2-1CODES FROM ECL&UC SHEET 3 OF 6.	10-1-12
GLO	REVISED ORDER	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

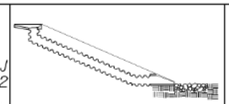
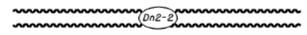
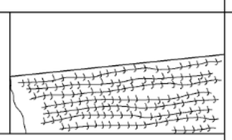
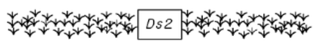
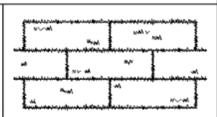
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 2 OF 6

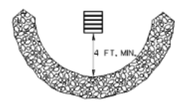
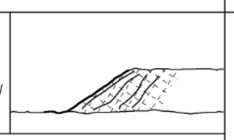
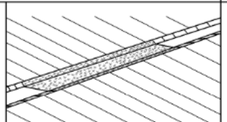
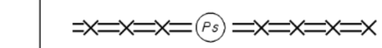
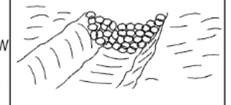
NO SCALE — JANUARY 2007

NUMBER EC-L2

DRAWING No. 52-002

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Dn2-2	PERMANENT DOWN DRAIN STRUCTURE GA. STD. 9017J TP2, D-26 TP2 SECTION 576, 577.	 LINE CODE 	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 	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.
	Ds2	TEMPORARY GRASSING SECTION 163	 LINE CODE 	THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS.
	Ds3	PERMANENT GRASSING SECTION 700	 LINE CODE 	THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON IS TO BE USED ON ALL PROJECTS. PERMANENT VEGETATIVE REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS; HOWEVER, THEY MAY BE SHOWN ON THE PLANS FOR HIGHLY SENSITIVE AREAS WHERE THESE VEGETATIVE PRACTICES ARE CRITICAL.
	Ds4	SODDING SECTION 700	 PATTERN 	THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS.

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Fr	FILTER RING CONSTRUCTION DETAIL	 LINE CODE	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 	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 	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	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.

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

BY	REVISION	DATE
TC	UDATED DRAWING NO., ADDED Ds3 & Ds4 CODES, RELOC. Rp & Rt-P CODES to DRAWING NO. 52-004,	1-24-13
TC	RELOCATED Rd, Rp, & Rt-B CODES FROM ECL&UC SHEET 4 OF 6.	10-2-12
GLO	DELETED Fe, REVISED ORDER	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

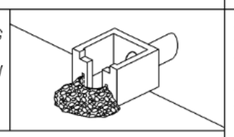
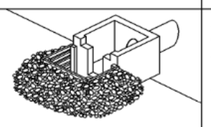
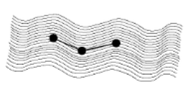
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 3 OF 6

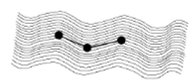
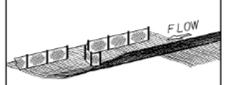
NO SCALE — JANUARY 2007

NUMBER EC-L3

DRAWING No. 52-003

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	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.
	Rt-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 DISTURBED AREA. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
	Rt-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 DISTURBED AREA. THIS ITEM SHOULD BE DESIGNED ACCORDING TO CHAPTER 6 IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA"
	Rt-BSg1 Rt-BSg2 Rt-BSg3	SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163 LINE CODE		A SILT CONTROL GATE IS A STRUCTURE PLACED ON A PIPE. SMALL BOX CULVERT. OR DROP INLET TO FORM A BASIN TO CATCH SILT AND PREVENT IT FROM LEAVING THE CONSTRUCTION SITE. IT IS EFFECTIVE ON SMALL DRAINAGE AREAS ONLY. DO NOT USE IN STATE WATERS. Rt-BSg1=TYPE 1: USED ON BOX CULVERTS Rt-BSg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-BSg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
	Sb-F	SILT RETENTION BARRIER FLOATING SECTION 170 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 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.
	Sdl-A	SILT FENCE TYPE A CONSTRUCTION DETAIL SECTION 171 LINE CODE		USED ALONG THE TOE OF FILLS LESS THAN 10' HIGH, ALONG THE RIGHT OF WAY LINE OR PARALLEL TO STREAMS. THE FENCE SHOULD NEVER RUN CONTINUOUS. IT SHOULD TURN BACK INTO THE FILL TO CREATE SMALL POCKETS TO TRAP SILT.
	Sdl-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.
	Sdl-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, SEEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION. "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

BY	REVISION	DATE
TC	UDATED DRAWING NO. & RELOCATED Sdl-B&&Sdl-Hb CODES TO DRAWING NO. 52-005.	1-24-13
TC	RELABELED AND RELOCATED Sg-1&Sg-2, Sg-3 TO Rt-BSg1, Rt-BSg2, & Rt-BSg3 CODES AND Sdl-Bb, Sdl-Hb CODES FROM ECL&UC SHT. 5 OF 6.	10-2-12
GLO	REV. Sdl-A	
GLO	REV. Sb-F, Sb-S, Sdl-A, Sdl-B AND Sdl-C.	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

EROSION CONTROL LEGEND AND UNIFORM CODE SHEET

SHEET 4 OF 6

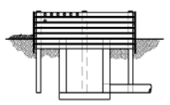
NO SCALE

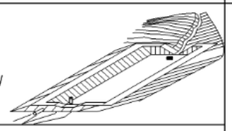
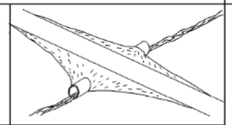
JANUARY 2007

NUMBER EC-L4

DRAWING No. 52-004

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 Q=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 Q=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 Q=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 Q=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.
	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, SEEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

BY	REVISION	DATE
TC	UDATED DRAWING NO. & RELOCATED ST & ST-Rp	1-24-13
	CODES TO DRAWING NO. 52-006.	
TC	DEL. Sg-1, Sg-2, Sg-3 CODES, RELOCATED ST & ST-Rp, CODES FROM ECL & IJC SHT. 6 OF 6.	10-2-12
GLO	REV. Sg-1, Sg-2 AND Sg-3	11-13-07
GLO	REVISED TITLE BLOCK	1-19-07

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

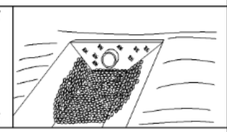
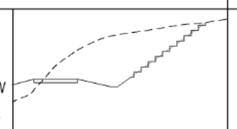
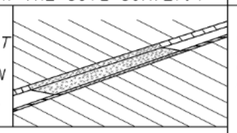
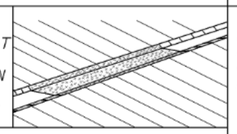
EROSION CONTROL LEGEND
AND UNIFORM CODE SHEET
SHEET 5 OF 6

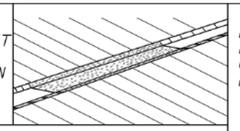
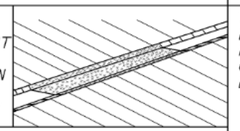
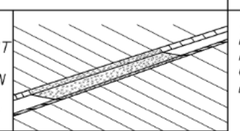
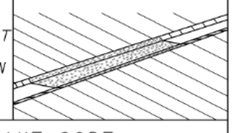
NO SCALE — JANUARY 2007

NUMBER EC-L5

DRAWING No. 52-005

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

	CODE	PRACTICE STD :SPC's :SECTION	DETAIL	DESCRIPTION
	Trm-3	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE (Trm-3)	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	Trm-4	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE (Trm-4)	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	Trm-5	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE (Trm-5)	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)
	Trm-6	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE (Trm-6)	THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN DITCHES TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. (THIS IS ALSO CALLED "Mb" IN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.)

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

BY	REVISION	DATE
TC	UDATED DRAWING NO. 5 of 6.	1-24-13
TC	ADDED Trm-1,Trm-2,Trm-3, Trm-4,Trm-5,AND Trm-6.	10-2-12
	CODES AND DESCRIPTIONS.	
	RELOCATED St & St-Rp	
	CODES TO ECL & UC SHT.	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

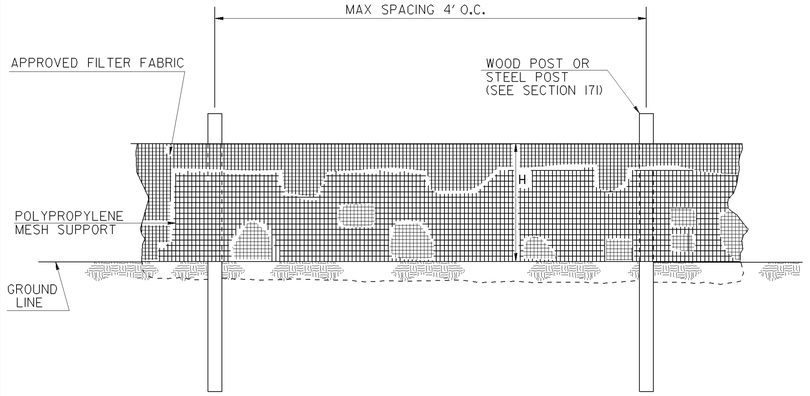
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET
SHEET 6 OF 6

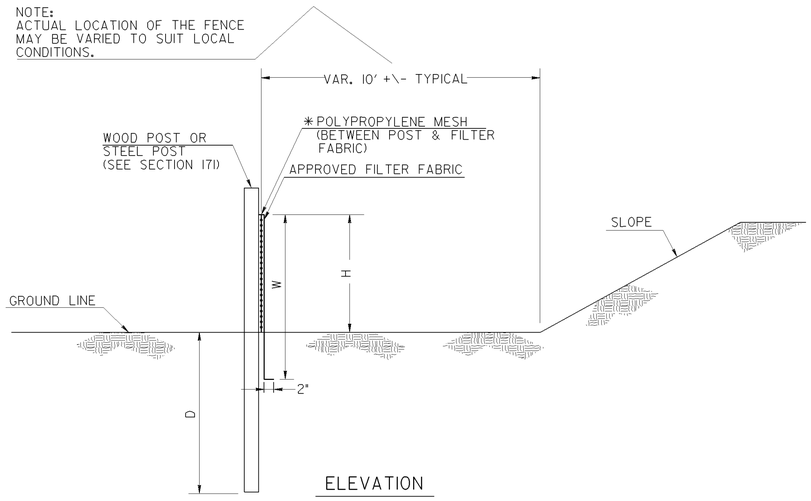
NO SCALE — NOV., 2007

NUMBER EC-L6

DRAWING No. 52-006

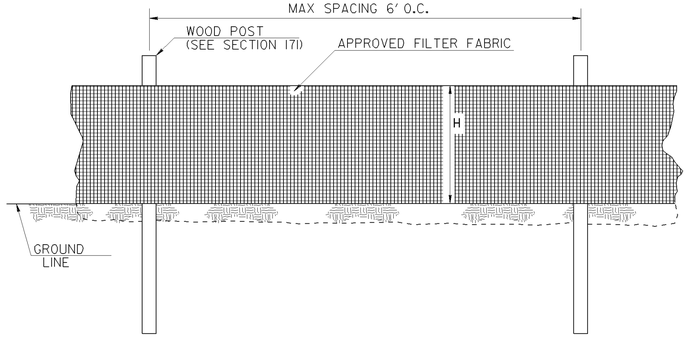
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

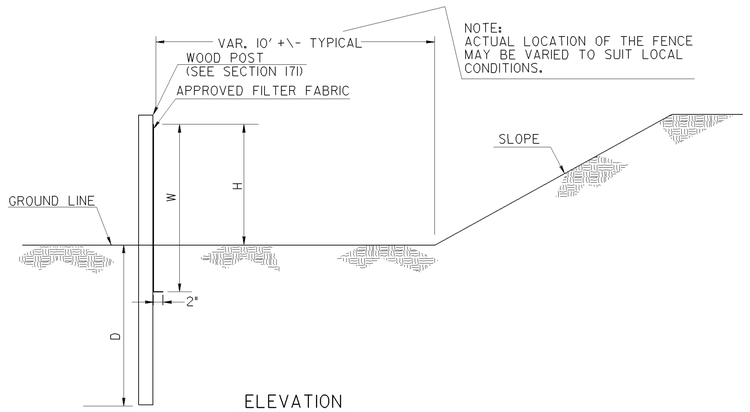




ELEVATION

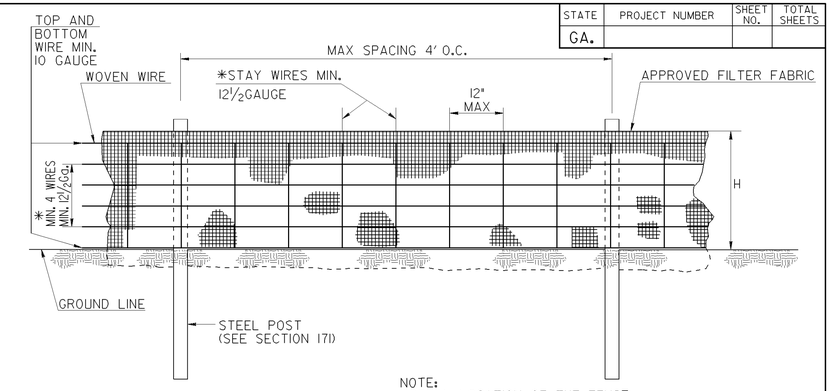
SINGLE ROW TYPE C SILT FENCE WITH POLYPROPYLENE MESH SUPPORT

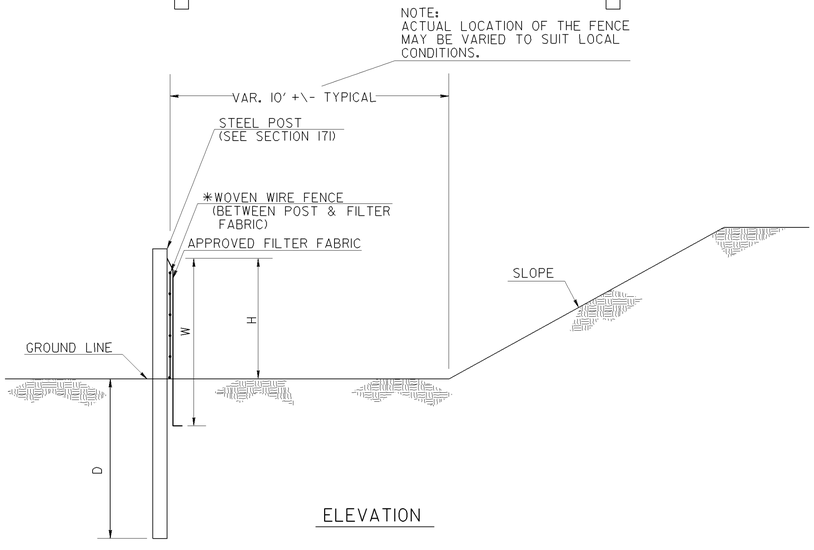




ELEVATION

SINGLE ROW TYPE A SILT FENCE





ELEVATION

SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT

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

NOTES:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST ½ INCHES LONG AND A CROWN AT LEAST ¾ INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG , WITH BUTTON HEADS AT LEAST ¾ INCHES WIDE.
2. NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
3. THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12½ GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE QPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

NO SCALE

REV. AND REDRAWN JAN. 2011

DATE | REVISION | BY

NUMBER D-24A
(SHEET 1 OF 4)

2/8/2016 9:33:11 AM GPLOT-V8 7282015_54-001.dgn P. I. No.
gnlcolas gplotborder-V81-P0.tbl

BEGIN CONSTRUCTION
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N 1461333.0958
E 2236958.2667

BEGIN PROJECT
STA 10+00.00
N 1461334.3284
E 2236941.6960

END CONSTRUCTION
MATCH EXISTING
STA 12+65.90
N 1461310.1874
E 2237206.0900

END PROJECT
STA 12+80.00
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E 2237219.0885

Curve 1
PI Sta: 12+52.33
N: 1461315.6115
E: 2237193.3273
DELTA: 18°38'15.0" (RT)
D: 57°17'44.81"
T: 16.41
L: 32.53
R: 100.00

OXBO DRIVE
SR 9/SR 120/ATLANTA STREET
OXBO WAY
MIMOSA BOULEVARD
CURVE 1
S85°44'45.8"E
REQ'D R/W
P.C. 12+35.92
P.T. 12+68.45
Ds4
Mb
Sdl-C
CONC
BRICK
GRAVEL
AC
10+00
11+00
12+00
12+87

REVISION DATES

BMP LOCATION DETAILS

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		54-001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

7/31/2015 GPLN