

# STANDARD SIGN SUMMARY GENERAL NOTES

- ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
- SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OF BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC SAFETY AND DESIGN.
- ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF SEVEN (7) FEET THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY.
- HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE SIX (6) FEET FROM THE EDGE OF THE PAVED SHOULDER OR TWELVE (12) FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST TWO (2) FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
- HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE SIX (6) FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).
- SIGN PLATE, HORIZONTAL RECTANGULAR SIGNS OVER FORTY-EIGHT (48) INCHES IN WIDTH SHALL BE MOUNTED ON TWO (2) POSTS WITH TWO (2) EACH 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
- EACH 42 OR 48 INCH WIDE X 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH X 1/2 INCH X (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
- SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY - TYPICAL FRAMING DETAILS.
- TYPE 111 (ENCAPSULATED LENS) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
- TYPE 1X (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3A, R1-4A, R5-1, R5-1A).
- TYPE 1X (WIDE ANGLE PRISMATIC) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W1A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE VI (WIDE ANGLE PRISMATIC) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.
- TYPE 1X (WIDE ANGLE PRISMATIC) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
- A 1/4 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
- WHERE SIGNS WITHIN AS ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
- FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
- CONTRACTOR WILL, AS DIRECTED BY ENGINEER, BE REQUIRED TO BE REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.
- ALL EXISTING STEEL POLES WITH DIRECTIONAL SIGNS ARE TO BE REMOVED AND THE COST INCLUDED UNDER GRADING COMPLETE.

# GENERAL NOTES

UTILITY OWNER	FACILITY
WINDSTREAM	TELEPHONE
GA POWER TRANSMISSION-MEDIACOM	ELECTRICAL CABLE TV
CITY OF DONALSONVILLE	SEWER/WATER/GAS
GA POWER DISTRIBUTION	ELECTRICAL
CSX RAILROAD	RAILROAD



Know what's below.  
Call before you dig.

- FOR THE CONTAMINATED MATERIAL AT PARCELS\* 6, 7, AND 12. THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT THE BEST POSSIBLE ENGINEERING AND MANAGEMENT CONTROLS TO ENSURE ADEQUATE PROTECTION OF EMPLOYEE SAFETY AS STATED ON THE UST/HAZARDOUS WASTE INVESTIGATION REPORT
- ALL WASTE SITES, STOCKPILES AND BORROW PITS MUST BE ENVIRONMENTALLY APPROVED BEFORE USE.
- ANY REQUIRED SHORING WILL BE INCLUDED IN THE OVERALL BID.
- THIS PROJECT REQUIRES A N.O.I.
- DRAINS ARE TO BE CLEANED OUT FOLLOWING THE MILLING OPERATION.
- TIE ALL DRIVENWAYS AS THEY EXIST (ASPHALT FOR ASPHALT AND CONCRETE FOR CONCRETE.) 8 INCH FOR COMMERCIAL AND 6 INCH FOR RESIDENTIAL
- IF ANY PETROLEUM-IMPACTED SOILS ARE ENCOUNTERED ALL APPLICABLE LAWS AND REGULATIONS CONCERNING THE REMOVAL OF TOXIC OR HAZARDOUS MATERIALS ARE TO BE FOLLOWED AND THE REMOVAL COORDINATED WITH EPD. ALL MATERIAL IS TO BE HANDLED ACCORDING TO THE OIL AND HAZARDOUS WASTE MANAGEMENT ACT (O.C.G.A. 12-8-60). THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL HANDLING AND DISPOSAL REGULATIONS AND OBTAIN ALL NECESSARY PERMITS.
- REMOVAL OF EXISTING PIPES TO BE INCLUDED IN COST OF GRADING COMPLETE
- ALL ABANDONED PIPES MUST BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS

PIPE CULVERT MATERIAL ALTERNATES FOR COASTAL PLAIN REGION

TYPE OF PIPE INSTALLATION	CORRUGATED ALUMINUM AASHTO M-196	CORRUGATED STEEL AASHTO M-36		PLASTIC			
		ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	CORR. POLY-ETHYLENE AASHTO M-252	CORR. POLYETHYLENE SMOOTH LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949
LONGITUDINAL INTERSTATE AND TRAVEL BEARING	X						
LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING	X	X		X		X	X
CROSS DRAIN	GRADE ≤ 10%	ADT < 250	X	X	X		X
		250 < ADT < 1500	X		X		X
		1,500 < ADT < 15,000	X		X		X
		ADT > 15,000	X				
GRADE > 10%	ADT < 250		X	X	X		X
	ADT > 250			X		X	X
SIDE DRAIN	X	X	X	X		X	X
PERMANENT SLOPE DRAIN		X	X	X		X	X
PERFORATED UNDERDRAIN		X	X	X	X	X	X

*Cross Drain and Storm Drain Pipe*  
Unless noted otherwise in the plans, the pipe sizes specified for cross drain pipe and storm drain pipe are based on a Manning's "N" design value of 0.012. Alternate pipe materials with Manning's "N" design values less than or equal to 0.012 may be used as noted in the Allowable Pipe Materials Chart.

*The Contractor may, at his own expense, submit other designs considering alternative pipe materials with Manning's "N" design values greater than 0.012 to the Project Engineer for approval. The submitted designs shall be stamped and sealed by a qualified Professional Engineer.*

*Side Drain Pipe and Under Drain Pipe*  
Alternate pipe materials may be used as noted in the Allowable Pipe Materials Chart. Side drain pipe is normally designed using a Manning's "N" value for corrugated metal pipe. Submission of alternate designs with lesser friction coefficients is not required.

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

NOTES:  
1. Allowable materials are indicated by a "X"  
2. Structural requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P, whichever is applicable, and the Standard Specifications.  
3. Graded aggregate backfill shall be used in cross drain applications for all plastic pipes (AASHTO M-294, HOPE pipe; AASHTO M-304, PVC; ASTM F-949, PVC pipe).  
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4. The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.  
5. Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.  
6. Project specific pH and Resistivity values are entered into the respective boxes above to determine allowable pipe materials.

ENVIRONMENTAL RESOURCES IMPACT TABLE

Resource Name/Type	Location		Side	Construction Activity	Permitted Activity	Controlling Criteria	Special Provision?	Comments including any permit expiration dates
	Beginning STA	Ending STA						
STREAM* 1 BUFFER	3+10	4+00	LT	NO IMPACT				
STREAM *3	3+47.93	9+69.49	RT	NO IMPACT				
HISTORIC BOUNDARY	2+17.9/TENNILE AVE.	4+46.7/TENNILE AVE.	LT	YES IMPACT				
HISTORIC BOUNDARY	6+55.7/TENNILE AVE.	10+19/TENNILE AVE.	LT& RT	YES IMPACT				
HISTORIC BOUNDARY	5+19.22/WILEY AVE.	7+50/TENNILE AVE.	LT& RT	YES IMPACT				

## REVISION DATES


STATE OF GEORGIA  
DEPARTMENT OF TRANSPORTATION  
OFFICE: DISTRICT 4  
**GENERAL NOTES**