

pH 5.75  
 Resistivity 11500

Project No.: NHS00-0000-00(762)

County: Lowndes Co.

P.I. No.: 0000762

## Pipe Culvert Material Alternates For Coastal Plain Region

TYPE OF PIPE INSTALLATION	C O N C R E T E	CORRUGATED STEEL AASHTO M-36		CORRU- GATED ALUMINUM AASHTO M-196	PLASTIC					
		ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN ZINC COATED	PLAIN UNCOATED ALUMINUM	CORR. POLY- ETHYLENE AASHTO M-252	CORR. POLY- ETHYLENE SMOOTHED LINED AASHTO M-294 TYPE "S"	POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO M-304	POLY VINYL CHLORIDE (PVC) CORRUGATED SMOOTH INTERIOR ASTM F-949		
LONGITUDINAL INTERSTATE AND TRAVEL BEARING	<b>X</b>									
LONGITUDINAL NON- INTERSTATE AND NON- TRAVEL BEARING	<b>X</b>	<b>X</b>		<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>		
S T O R M D R A I N	C R O S S D R A I N	ADT < 250	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>	
		250 < ADT < 1,500	<b>X</b>		<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>	
		GRADE ≤ 10% 1,500 < ADT < 15,000	<b>X</b>					<b>X</b>	<b>X</b>	<b>X</b>
		ADT > 15,000	<b>X</b>							
	G R A D E > 10%	ADT < 250		<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>	
		ADT > 250			<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>	
SIDE DRAIN	<b>X</b>	<b>X</b>		<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>		
PERMANENT SLOPE DRAIN		<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>	<b>X</b>	<b>X</b>		
PERFORATED UNDERDRAIN		<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>		<b>X</b>		

**NOTES:**

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