GENERAL NOTES

1. A NOTICE OF INTENT WILL BE REQUIRED FOR THIS PROJECT.
2. ALL EXISTING DRAINAGE PIPES AND CULVERTS SHALL BE CLEANED OUT BEFORE STARTING CONSTRUCTION. PAYMENT WILL BE INCLUDED IN THE OVERALL BID. ALL EXISTING PIPES AND STRUCTURES NOT USED AND ALL TEMPORARY PIPES AMD STRUCTURES WILL BE REMOVED OR FILLED - SEE PLANS.
3. GEORGIA 811 Utilities Protection Center, Inc.
   Know what's **below.**
   Call before you dig.

UTILITY OWNER	SERVICE
AGL Resources, Inc.	Gas
Etowah Water & Sewer Authority	Water
Sawnee EMC	Electricity
Windstream Communications	CATV
Windstream Communications	Telephone

4. DRIVEWAYS WILL BE PAVED FROM THE OUTSIDE EDGE OF THE TRAVEL LANE TO THE TIE-IN POINT OF THE EXISTING DRIVEWAY OR TO THE REQUIRED RIGHT OF WAY LINE, WHICHEVER IS FARTHEST AWAY FROM THE CENTERLINE. WHERE REQUIRED, DRIVEWAYS SHALL BE CONSTRUCTED AS FOLLOWS:

ASPHALT DRIVES

RESIDENTIAL:
135 lb/yd2 ASPHALTIC CONCRETE, 12.5 mm SUPERPAVE
220 lb/yd2 ASPHALTIC CONCRETE, 19mm SUPERPAVE
4 INCH GRADED AGGREGATE BASE COURSE

COMMERCIAL:
135 lb/yd2 ASPHALTIC CONCRETE, 12.5 mm SUPERPAVE
220 lb/yd2 ASPHALTIC CONCRETE, 19 mm SUPERPAVE
440 lb/yd2 ASPHALTIC CONCRETE 25mm SUPERPAVE
6 INCH GRADED AGGREGATE BASE COURSE

CONCRETE DRIVES

RESIDENTIAL:
6 INCH DRIVEWAY CONCRETE OR
6 INCH CONCRETE VALLEY GUTTER

COMMERCIAL:
6 INCH DRIVEWAY CONCRETE OR
6 INCH CONCRETE VALLEY GUTTER

PROJECT SPECIFIC NOTES

1. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.
2. METHOD OF UTILITY LOCATION - SUE. SEE UTILITY PLANS 24-0A THROUGH 24-10
3. WASTE - NONE OF THE SOILS ENCOUNTERED ON THIS PROJECT WILL REQUIRE WASTING. HOWEVER, CLASS IIIC2 AND IIIC3 SOILS, WHICH EXHIBIT HIGH VOLUME CHANGE AND ARE CONSIDERED TO HAVE POOR LOAD-CARRYING CHARACTERISTICS, WILL LIKELY BE ENCOUNTERED AT THE FOLLOWING CUT AREAS:

   STATION TO STATION — LOCATION
   106+00 +/- TO 121+00 +/- (SR53) LT.
   20+00 +/- TO 24+50 +/- (ETOWAH RIVER RD) RT.

   CLASS IIIC2 AND IIIC3 SOILS EXCAVATED FROM THE ABOVE CUT AREAS, AND UNDERCUT FROM AT-GRADE AREAS (AS DESCRIBED UNDER "7 PAVMENT DESIGN) OF THE PROJECT ALIGNMENT SHALL NOT BE PLACED WITHIN THE UPPER THREE FEET OF SUBGRADE DIRECTLY BENEATH THE PAVEMENT SECTION. THESE SOILS MAY BE USED IN THE BOTTOM OF HIGH FILL SECTIONS, IN THE SHOULDERS, OR IN THE SIDE SLOPES AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SPECIAL PROVISION 205.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL BORROW/WASTE PITS NEEDED FOR THE PROJECT AT NO ADDITIONAL COST TO THE DEPARTMENT. FURTHERMORE, THE CONTRACTOR SHALL NOTIFY THE DISTRICT MATERIALS ENGINEER SIX WEEKS PRIOR TO ANY LAND DISTURBING ACTIVITIES IN BORROW/WASTE PITS TO ALLOW AMPLE TIME FOR INVESTIGATION OF MATERIALS AND ENVIRONMENTAL CONSIDERATIONS.
5. A ROOT PRUNING TREATMENT AND A LAYER OF TEMPORARY MULCH WILL BE REQUIRED PRIOR TO CONSTRUCTION FOR THE HISTORIC TREE LOCATED ON THE SOUTHWEST CORNER OF THE PROPERTY AT 3679 HIGHWAY 53 OF THE ROE-RHODES HOUSE/ELIGIBLE NRHP RESOURCE. THE COST IS TO BE INCLUDED IN THE OVERALL PRICE BID FOR THE PROJECT.

PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT/BLUE RIDGE REGION

TYPE OF PIPE INSTALLATION			CONCRETE	CORRUGATED STEEL AASHTO M-36		CORRUGATED ALUMINUM AASHTO M-196	PLASTIC			
				ALUMINUM COATED (TYPE 2) CORR. STEEL	PLAIN 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
STORM DRAIN	LONGITUDINAL INTERSTATE AND TRAVEL BEARING		X							
	LONGITUDINAL NON-INTERSTATE AND NON-TRAVEL BEARING		X	X		X		X	X	X
	CROSS DRAIN GRADE ≤ 10%	ADT < 250								
		250 < ADT < 1500								
		1500 < ADT < 15,000								
		ADT > 15000	X							
	CROSS DRAIN GRADE > 10%	ADT < 250								
		ADT > 250				X		X	X	X
SIDE DRAIN			X	X	X	X		X	X	X
PERMANENT SLOPE DRAIN				X	X	X		X	X	X
PERFORATED UNDERDRAIN				X	X	X	X	X		X

* THIS TYPE PIPE CAN BE USED IF THE ADDITION OF TYPE "B" COATING (AASHTO M-190, HALF BITUMINOUS COATED WITH PAVED INVERT) IS UTILIZED.

NOTE:

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. USE THE ALLOWABLE MATERIALS CHART UNLESS OTHERWISE NOTED IN THE PLANS.
5. TEMPORARY PIPE MAY BE PLASTIC, CMP, OR CONCRETE.

ENVIRONMENTAL RESOURCES IMPACT TABLE

RESOURCE NAME/TYPE	LOCATION BEGINNING STA	LOCATION ENDING STA	SIDE	CONSTRUCTION ACTIVITY	PERMITTED ACTIVITY	CONTROLLING CRITERIA	SPECIAL PROVISION?	COMMENTS INCLUDING ANY PERMIT EXPIRATION DATES
STREAM 3	14+72 THOMPSON ROAD	15+73 THOMPSON ROAD	RT	DITCH, DRAINAGE INLET, PIPE AND OUTLET, RIP RAP	PERMIT REQD FOR 37 LINEAR FEET OF IMPACTS TO STREAM 3	NATIONWIDE 23 PERMIT	NO	NO BUFFER VARIANCE NEEDED
NRHP RESOURCE	118+70 SR53	121+55 SR53	LT	RECONSTRUCTION OF DRIVEWAY	RECONSTRUCTION OF DRIVEWAY	AOE DATED 1/5/09 AND MEMO TO DESIGN DATED 8/6/09	107	CONTRACTOR SHALL DIRECT QUESTIONS TO THE ENGINEER, AND THE ENGINEER SHALL CONTACT ENVIRONMENTAL SERVICES IF NECESSARY FOR RESOLUTION
				TREE - PRUNING TREATMENT AND LAYER OF TEMPORARY MULCH	TREE - PRUNING TREATMENT AND LAYER OF TEMPORARY MULCH	AOE DATED 1/5/09 AND MEMO TO DESIGN DATED 8/6/09	107	THE LAYER OF TEMPORARY MULCH 1-3 FEET WILL BE MAINTAINED DURING CONSTRUCTION FOR THE HISTORIC TREE
				WALL OUTSIDE OF ELIGIBLE RESOURCE	NA	LETTER TO RDC DATED 2/9/09	500	AS REQUESTED BY RDC, THE PROPSED RETAINING WALL SHALL BE TINTED AND STAMPED ACCORDING TO THE MANDATES SPECIFIED IN SPECIAL PROVISION SECTION 500.

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 1

GENERAL NOTES

DRAWING No. 4-01

3/1/2007 GPLN