GENERAL NOTES

PROJECT SPECIFIC NOTES

1. THE FOLLOWING UTILITIES HAVE FACILITIES WHICH MAY CONFLICT WITH THIS PROJECT:

UTILITY NAME	TYPE OF UTILITIES
AT&T	TELEPHONE
GA POWER DISTRIBUTION	POWER
CITY OF GREENSBORO	GAS
CITY OF GREENSBORO	WATER & SEWER

2. THIS PROJECT REQUIRES A NOTICE OF INTENT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ENVIROMENTALLY APPROVED BORROW SITE.
4. THERE IS NO SUITABLE SITE WITHIN THE PROJECT LIMITS FOR BURIAL OF CULVERTS AND PIPES. THE CONTRACTOR SHALL PROVIDE ALL BORROW AND WASTE PITS FOR THIS PROJECT. ALL PITS SHALL BE ENVIRONMENTALLY APPROVED AT NO ADDITIONAL COST TO THE DEPARTMENT.
5. SAWJOINTS FOR THE REMOVAL OF EXISTING ASPHALT PAVEMENT AND THE REMOVAL OF EXISTING DRAINAGE PIPES SHALL BE PAID FOR UNDER GRADING COMPLETE.
6. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL OR IN AN ENGINEERED FILL.

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

ENVIRONMENTAL RESOURCES IMPACT TABLE

RESOURCE NAME/TYPE	LOCATION BEGINING STA	LOCATION ENDING STA	SIDE	CONSTRUCTION ACTIVITY	PERMITTED ACTIVITY	CONTROLLING CRITERIA	SPECIAL PROVISION	COMMENTS INCLUDING ANY PERMIT EXPIRATION DATES
Stream 2	52+67	52+67	Both	2 - 24" Pipes	90 linear ft and 0.005 acre of stream impacts	Section 404 of the CWA-NWP 14		Any additional fill other than what is shown on plans will require a permit modification or a new permit prior to commencement of the activity. The Regional Permit One expires May 16, 2013.
	52+52	52+82	Right	Rip rap placement				
Stream 3 Buffer	62+82	63+53	Left	Replace 72" pipe w/ 2 - 60" Pipes	Activities within 50 ft of the proposed drainage structures are exempt. The impact to the stream totals 32 ft of pipe extension & 30 ft of impact due to rip rap.	Memo from EPD dated 6/8/06 Re: Buffer Variance Issues		Roadway drainage exemption - work beyond 50 ft of the proposed drainage structures will require a buffer variance or written premission from EPD prior to commencement of the activity.
	62+23	63+29	Right					
	62+57	62+86	Right	Rip rap placement				

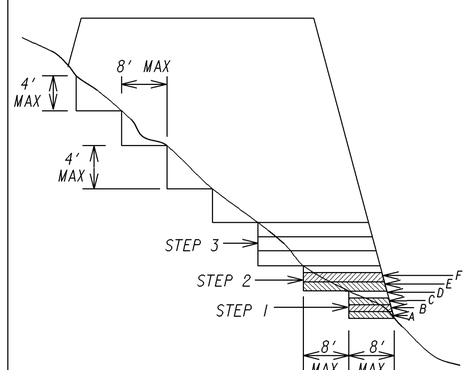
PIPE CULVERT MATERIAL ALTERNATES
FOR PIEDMONT / BLUE RIDGE REGION

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

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

NOTES:

1. ALLOWABLE MATERIALS ARE INDICATED BY AN "X".
2. STRUCTURAL REQUIREMENTS OF STORM DRAIN PIPE WILL BE IN ACCORDANCE WITH GEORGIA STANDARD 1030-D OR 1030-P, WHICHEVER IS APPLICABLE, AND THE STANDARD SPECIFICATIONS.
3. GRADED AGGREGATE BACKFILL SHALL BE USED IN CROSS DRAIN APPLICATIONS FOR ALL PLASTIC PIPES (AASHTO M-294, HDPE PIPE, AASHTO M-304, PVC PIPE, ASTM F-949, PVC PIPE) REVISED 09-07-06
4. TEMPORARY PIPE CAN BE CMP, PLASTIC OR CONCRETE.
5. USE THE ALLOWABLE PIPE CHART UNLESS OTHERWISE NOTED ON THE PLANS.
6. THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.



BENCHING DETAIL

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE. (SEE DIAGRAM AT LEFT.)
2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT⅔ THE WIDTH OF THE USUAL D-8 BULLDOZER BLADE) SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED. THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.
3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

GEORGIA DEPARTMENT OF TRANSPORTATION

REVISION DATES		
6-4-12		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 2 - TENNILLE

GENERAL NOTES/PROJECT NOTES

CSSTP-0006-00(944)
GREENE COUNTY

DRAWING NO. 04-001

GPLN