SUMMARY OF DRAINAGE QUANTITIES

NOTE: THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.

PIPE CULVERT MATERIAL ALTERNATES

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 SMOOTH-LINED AASHTO M-294 TYPE S	PLASTIC: POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO-304
STORM DRAIN: LONGITUDINAL INTERSTATE AND TRAVEL BEARING	X						
STORM DRAIN: LONGITUDINAL NON INTERSTATE AND NONTRAVEL BEARING	X	X		X		X	X
STORM DRAIN / CROSS DRAIN: GRADE ≤ 10% ADT < 250	X	X	X	X		X	X
STORM DRAIN / CROSS DRAIN: GRADE ≤ 10% 250 < ADT < 1500	X			X			
STORM DRAIN / CROSS DRAIN: GRADE ≤ 10% ADT > 1500	X						
STORM DRAIN / CROSS DRAIN: GRADE > 10% ADT < 250		X	X	X		X	X
STORM DRAIN / CROSS DRAIN: GRADE > 10% ADT > 250				X			
SIDE DRAIN	X	X	X	X		X	X
PERMANENT SLOPE DRAIN		X	X	X		X	X
PERFORATED UNDERDRAIN		X	X	X	X	X	

DRAINAGE STRUCTURE NUMBER	LOCATION	LINEAR FEET: SLOPE DRAIN 18"	SLOPE DRAIN 24"	STORM DRAIN 15"	STORM DRAIN 18"	STORM DRAIN 24"	STORM DRAIN 30"	STORM DRAIN 36"	STORM DRAIN 48"	MAXIMUM HEIGHT OF FILL OVER PIPE (FT)	FOUNDATION BACK FILL MAT'L (TP II CY)	FLARED END SECTIONS GA. STD. 1120 STORM DRAIN (EA/SZ)	SAFETY END SECTIONS GA. STD. 1120 SIDE DRAIN (EA/SZ)	STRUCTURE DEPTH (H) (LF)	DROP INLETS GP 1: GA. STD. 5001 M1 6 FT OR LESS (EA)	ADD'L DEPTH (LF)	GA. STD. 5001 M2 6 FT OR LESS (EA)	ADD'L DEPTH (LF)	GA. STD. 1019 A TYPE "B" WITH WEIR 6 FT OR LESS (EA)	ADD'L DEPTH (LF)	GA. STD. 9031S 6 FT OR LESS (EA)	ADD'L DEPTH (LF)	DROP INLETS GP 2: GA. STD. 5001 M1 6 FT OR LESS (EA)	ADD'L DEPTH (LF)	GA. STD. 5001 M2 6 FT OR LESS (EA)	ADD'L DEPTH (LF)	GA STD 9031U CLASS A CONC. COLLAR (EA)	GA STD 1125 CLASS A CONC. HEADWALL INCL REINF STEEL (CY)	MANHOLE GA. STD. 1011 A TYPE 1 42" OR LESS: 6 FT OR LESS (EA)	ADD'L DEPTH CLASS 1 (LF)	ADD'L DEPTH CLASS 2 (LF)	ADD'L DEPTH CLASS 3 (LF)	TYPE 2 48" TO 84": 6 FT OR LESS (EA)	ADD'L DEPTH CLASS 1 (LF)	ADD'L DEPTH CLASS 2 (LF)	ADJUST M.H. TO GRADE (EA)	RECONSTRUCT M.H. (EA)	CLASS B CONC. (FLUMES AND SPILLWAY APRON) (CY)	JACK OR BORE PIPE - 18" (LF)	JACK OR BORE PIPE - 24" (LF)	JACK OR BORE PIPE - 30" (LF)	COMMENTS
K-21	370+90, CENTERLINE				270									5.35				1																							
K-22	372+90, CENTERLINE				200									5.13				1																							
L2-5	375+10, CENTERLINE				150									5.01				1																							
L2-4	376+60, CENTERLINE				157									5.78				1																							
L2-2	377+33, 84' RT.						14					1/30																													EXTEND EXISTING 30" PIPE
L2-3	378+17, CENTERLINE													7.13				1	2																						DROPS INTO EXISTING 30" PIPE
L2-1	379+09, 93' LT.																																								EXIST CROSS DRAIN OUTLET 30" PIPE
L-3	380+70, CENTERLINE				117									5.02				1																							
L-2	381+87, CENTERLINE													5.74				1																							USE EXIST MEDIAN OUTLET PIPE
L-1	382+36, 85' RT.																																								
L1-7	384+80, CENTERLINE				240									5.01				1																							
L1-6	387+20, CENTERLINE				170									5.10				1																							
L1-5	388+90, CENTERLINE				95									5.08				1																							
L1-4	389+85, CENTERLINE													8.27				1	3																				87		PROPOSED JACK OR BORE
L1-3	389+85, 150' RT.					16																																			TIE PIPE TO FLUME
L1-3A	389+85, 94' RT.													5.34																											FLUME OUTLET
L1-8	390+37, CENTERLINE				52									6.95				1	1																						EXISTING OUTLET NOT USED
L1-2	390+48, 144' LT.																																								EXIST CROSS DRAIN INLET 6 X 5 BOX CLVT
L1-1	390+48, 147' RT.																																								EXIST CROSS DRAIN OUTLET 6 X 5 BOX CLVT
L1-9	390+53, CENTERLINE				16									6.78				1	1																						
L1-10	390+97, CENTERLINE				44									6.26				1	1																						
L1-11	391+50, CENTERLINE				53									5.58				1																							
L1-12	392+00, CENTERLINE				50									5.25				1																							
L1-13	392+50, CENTERLINE				50									5.03				1																							
L3-2	393+87, CENTERLINE													4.37				1																							USE EXIST MEDIAN OUTLET PIPE
L3-1	393+87, 124' RT.																																								
L3-3	395+30, CENTERLINE				143									4.96	1																										
L3-4	396+30, CENTERLINE				100									4.96	1																										
L4-1	397+37, 92' RT.			10								1/15																													EXTEND EXISTING 15" PIPE
L4-2	397+87, CENTERLINE													4.40	1																										RECONSTRUCT EXISTING DROP INLET TO 5001M
L4-3	399+00, CENTERLINE				113										1																										
L5-1	400+75, 109' LT.																																								
L5-2	401+86, CENTERLINE																																								USE EXISTING MEDIAN OUTLET PIPE
M-4	410+00, CENTERLINE				280																1																				
M-2	412+86, 116' LT.																																								
M-3	412+86, CENTERLINE																																								EXISTING DROP INLET
												1/15																													
	SUB-TOTAL SHEET 7			10	2300	16	14					1/30			4		18	8			1																	87		

NOTE: FOR FLUME QUANTITIES SEE DRAWING 6-02
NOTE: FOR RIP RAP QUANTITIES SEE DRAWING 6-17

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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

OFFICE:

QUANTITIES - DRAINAGE

DRAWING No. 6-10

GPLM