RAL_17

COMPUTED BY:	BEN CRAWFORD	DATE:	8/01
CHECKED BY:	TRE DUGAL	DATE:	8/01

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.	SHEET NO.
R-2206B	3-G

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200mm & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 300	375	375 CLASS IV	450	450 CLASS IV	600	600 CLASS IV	750	750 CLASS IV	750 CLASS V	900 CLASS IV	1050 CLASS IV	1050 CLASS V	1200 CLASS IV	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 1.63	400 1.63	450 1.63	600 1.63	600	800 2.01	800	900 2.01	900	1000 2.01	1000	1200 2.01	1200	375mm SIDE DRAIN PIPE	400mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	C.S.P.	QUANITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0 THRU 1.50)	METERS A 1.5 THRU 3.00	METERS B 3.00 AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "D" STD. 840.19 OR 840.28	M.D.I. FRAME WITH GRATE STD. 840.20	M.D.I. FRAME WITH GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32		MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54		OPEN-THROAT CB (SEE DETAIL)	450mm CS PIPE 1.63mm THICK	600mm CS PIPE 1.63mm THICK	450mm PERF CS PIPE TEE RISER 1.63mm THICK	600mm PERF CS PIPE TEE RISER 1.63mm THICK		PARALLEL PIPE END SECTION STD. 310.02	SPRING BOX STD. 840.41	CORR. STEEL ELBOWS NO. & SIZE 400	450	800	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
L 159+55.000	RT	148		239.048																																		1										1				1																				7.5	300 CMP
		148	149		238.235	237.500			16.8																																																																	
L 160+20.000	LT	150		240.766																																		1										1				1																					
		150	151		239.953	232.300																	50.4																																													2						
L 161+71.000	RT	152		248.900																																																																						BDO
		152	153		248.900	244.567																	10.8																																													2						
L 161+71.000	RT	153		245.060																																		1										1				1																					
		153	154		244.517	244.270					26.4																																																																
L 161+66.000	CL	154		245.832																																		1	0.212									1				1																					
		154	155		244.120	234.900							26.4																																																																
L 161+60.000	LT	155		245.406																																		1	0.206									1				1																					
		155	156		243.700	241.680																					16.8																																													2				
L 163+60.000	LT	157		252.044																																		1										1				1																					
		157	159		251.231	251.100			25.2																																																																	
L 163+60.000	RT	158		252.044																																		1										1				1																					
		158	159		251.231	251.100			25.2																																																																		
L 163+60.000	CL	159		252.472																																		1										1				1																					
		159	154		251.050	244.345			194.4																																																																		
L 165+60.000	RT	160		258.878																																		1										1				1																					
		160	161		258.065	257.765			25.2																																																																	
L 165+60.000	CL	161		258.528																																		1										1				1																					
		161	162		257.715	257.048			25.2																																																																	
L 165+60.000	LT	162		257.862																																		1										1				1																					
		162	163		256.973	253.875																		21.6																																													2					
L 167+60.000	CL	164		262.186																																		1										1				1																					
		164	165		261.373	259.900			30.0																																																																	
L 169+00.000	LT	166		263.786																																		1										1				1																					
		166	167		262.973	262.709			19.2																																																																	
L 169+00.000	CL	167		263.472																																		1										1				1																					
		167	168		262.659	257.000																	36.0																																													2						
L 169+95.500	CL	169	169A		245.650	242.680														124.8																		3.4																																										CLASS V, METHOD 'B' INSTALLATION
L 171+20.000	LT	170		265.894																																		1										1				1																					
		170	171		265.081	260.000																	10.8																																													2						
L 172+10.000	LT	172		266.770																																		1										1				1																					
		172	173		265.957	265.533			19.2																																																																	
L 172+10.000	CL	173		266.296																																		1										1				1																					
		173	174		265.483	265.350			19.2																																																																	
L 172+10.000	RT	174		266.770																																		1										1				1																					
		174	175		265.300	255.689																	26.4																																													2						
L 172+96.000	CL	176	176A		246.750	243.330											153.6																																																											CLASS V, METHOD 'B' INSTALLATION
L 176+00.000	CL	177	177A		266.250	260.400						66.0																																																																CLASS IV
L 177+44.000	CL	178	178A		249.350	243.680										120.0																																																												CLASS IV
L 178+40.000	LT	179		263.690																																		1										1				1																					
		179	180		262.877	262.453			19.2																																																																	
L 178+40.000	RT	181		263.690																																		1										1				1																					
		181	180		262.877	262.453			19.2																																																																	
L 178+40.000	CL	180		263.216																																		1										1				1																					
		180	184B		262.405	259.297			140.4																																																																	
L 179+80.000	RT	184A		260.610																																		1										1				1																					
		184A	184B		259.797	259.297			19.2														14.4																																																			
SHEET TOTAL							0.0	0.0	597.6	0.0	26.4	66.0	26.4	0.0	0.0	120.0	153.6	0.0	0.0	124.8	0.0	0.0	148.8	21.6	0.0	0.0	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	22.0	0.418	0.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	2.0	2.0	0.0	0.0	7.5	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
M.D.I.(N.S.)	MEDIAN DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX