RAL_17

COMPUTED BY: BEN CRAWFORD DATE: 8/01

CHECKED BY: TRE DUGAL DATE: 8/01

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

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

Size / Thickness or Gauge: CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)

STATION	LOCATION (LT, RT, OR CL')	STRUCTURE NO. FROM	TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	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
		111	112		236.700	227.940															
L 145+60.000	RT	118	118A																		
L 145+67.500	CL	113	113A		229.28	226.5													94.8		
L 146+70.000	LT	114		241.338																	
		114	115		240.525	240.15			28.8												
L 146+55.000	CL	115		241.489																	
		115	116		240.075	239.721					28.8										
L 146+40.000	RT	116		240.638																	
		116	117		239.571	233.52															
L 149+74.000	LT	119		246.464																	
		119	120		245.651	245.5			25.2												
L 149+74.000	CL	120		246.892																	
		120	121		245.45	241.5			42.0												
L 150+00.000	RT	122		246.514																	
		122	123		245.574	241.500															
L 151+17.500	CL	124	124A		231.680	228.750															121.2
L 152+32.000	LT	125	126		245.7	245.65					10.8										
L 152+30.000	LT	126		246.574																	
		126	127		245.6	245.261					19.2										
L 152+30.000	CL	127		246.100																	
		127	128		245.211	245.125					19.2										
L 152+30.000	RT	128		246.574																	
		128	129		245.075	242.65															
L 154+60.000	CL	130		242.752																	
		130	131		241.939	241.583			25.2												
L 154+60.000	LT	131		242.346																	
		131	132		241.533	237.960															
L 154+87.000	CL	133	133A		234.99	231.58													88.8		
L 155+20.000	LT	134		242.338																	
		134	135		241.528	241.268			19.2												
L 155+20.000	CL	135		241.828																	
		135	136		241.218	240.95			19.2												
L 155+20.000	RT	136		242.338																	
		136	137		240.9	235.66															
L 157+60.000	LT	138		237.958																	
		138	139		237.145	236.94			25.2												
L 157+60.000	CL	139		238.384																	
		139	140		236.89	236.7					26.4										
L 157+60.000	RT	140		237.878																	
		140	141		236.65	233.05															
L 158+22.500	RT	142		238.546																	
		142	143		237.733	237.106			19.2												
L 158+22.500	CL	143		238.072																	
		143	144		237.056	236.95			19.2												
L 158+22.500	LT	144		238.546																	
		144	145		236.9	236.85			4.8												
L 158+22.500	LT	145		237.644																	
		145	146		236.8	236.5			14.4												
L 159+55.000	CL	147		239.476																	
		147	148		238.663	238.285			25.2												
SHEET TOTAL							0.0	0.0	267.6	0.0	104.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	183.6	0.0	121.2

BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE); ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS; QUANITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A'+(1.3 X COL.'B'); FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE

STATION	FROM	TO	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 R.C.P.	ENDWALLS C.S.P.	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	E	F	G
	111	112		33.6																							
L 145+60.000	118	118A																									
L 145+67.500	113	113A																	3.4								
L 146+70.000	114																				1						
	114	115																									
L 146+55.000	115																				1						
	115	116																									
L 146+40.000	116																				1						
	116	117				32.4																					
L 149+74.000	119																				1						
	119	120																									
L 149+74.000	120																				1						
	120	121																									
L 150+00.000	122																				1						
	122	123		32.4																							
L 151+17.500	124	124A																	4.6								
L 152+32.000	125	126																									
L 152+30.000	126																				1						
	126	127																									
L 152+30.000	127																				1						
	127	128																									
L 152+30.000	128																				1						
	128	129			13.2																						
L 154+60.000	130																				1						
	130	131																									
L 154+60.000	131																				1						
	131	132		18.0																							
L 154+87.000	133	133A																	3.4								
L 155+20.000	134																				1						
	134	135																									
L 155+20.000	135																				1						
	135	136																									
L 155+20.000	136																				1						
	136	137		25.2																							
L 157+60.000	138																				1						
	138	139																									
L 157+60.000	139																				1						
	139	140																									
L 157+60.000	140																				1						
	140	141			12.0																						
L 158+22.500	142																				1						
	142	143																									
L 158+22.500	143																				1						
	143	144																									
L 158+22.500	144																				1	0.146					
	144	145																									
L 158+22.500	145																				1						
	145	146																									
L 159+55.000	147																				1						
	147	148																									
SHEET TOTAL			0.0	109.2	25.2	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	22.0	0.146	0.000	0.0	0.0	0.0	0.0

STATION	FROM	TO	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
	111	112																								2						
L 145+60.000	118	118A																			15.6		1									TYPE 'A' BASIN
L 145+67.500	113	113A																														CLASS IV, METHOD 'B' INSTALLATION
L 146+70.000	114					1				1																						
	114	115																														
L 146+55.000	115					1				1																						
	115	116																														
L 146+40.000	116					1				1																						
	116	117																														
L 149+74.000	119					1				1																						
	119	120																														
L 149+74.000	120					1				1																						
	120	121																														
L 150+00.000	122					1				1																						
	122	123																														
L 151+17.500	124	124A																														CLASS IV, METHOD 'B' INSTALLATION
L 152+32.000	125	126																														
L 152+30.000	126					1				1																						
	126	127																														
L 152+30.000	127					1				1																						
	127	128																														
L 152+30.000	128					1				1																						
	128	129																									2					
L 154+60.000	130					1				1																						
	130	131																														
L 154+60.000	131					1				1																						
	131	132																														
L 154+87.000	133	133A																														CLASS IV
L 155+20.000	134					1				1																						
	134	135																														
L 155+20.000	135					1				1																						
	135	136																														
L 155+20.000	136					1				1																						
	136	137																								2						
L 157+60.000	138					1				1																						
	138	139																														
L 157+60.000	139					1				1																						
	139	140																														
L 157+60.000	140					1				1																						
	140	141																									2					
L 158+22.500	142					1				1																						
	142	143																														
L 158+22.500	143				1				1	1																						3GI
	143	144																														
L 158+22.500	144					1				1																						
	144	145																														
L 158+22.500	145					1				1																						
	145	146																														
L 159+55.000	147					1				1																						
	147	148																														
SHEET TOTAL			0.0	0.0	1.0	21.0	0.0	0.0	1.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	0.0	1.0	0.0	0.0	4.0	4.0	0.0	0.0	0.0	0.0	

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