RD203044

COMPUTED BY: YJA DATE: 9/14/02
CHECKED BY: TLS DATE: 2/22/04

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.	SHEET NO.
R-0513BB	3-C

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

STATION	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) SIZE 300	375	450	600	750	900	1050	1200	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) SIZE 300	400	450	600		800		900		1000		1200	
THICKNESS OR GAUGE																1.63	1.63	1.63	1.63		2.01		2.01		2.01		2.01	
SHEET 4																											
-L- 154+05	CL	1			44.98	44.21						171.6															
-SR5- 10+20	LT	1C																									
-SR5- 10+28	RT	1A																									
-SR5- 11+20	LT	1B																									
-L- 155+50	CL	2		47.47																							
-L- 155+50	CL	2	2A		45.39	45.24			30.0																		
SHEET 5																											
-L- 156+32	CL	3		47.28																							
-L- 156+32	CL	3B	3		45.49	45.05					27.6																
-L- 156+32	CL	3	3A		44.98	44.52					26.4																
-SR5- 13+07	CL	4			44.50	44.44						24.0															
-L- 157+20	CL	5		47.53																							
-L- 157+20	CL	5	5A		45.72	45.57			26.4																		
-L- 158+50	CL	6		48.07																							
-L- 158+50	CL	6B	6		45.55	45.42					27.6																
-L- 158+50	CL	6	6A		45.42	45.25					31.2																
-SR5- 15+59	CL	7			45.21	45.18					26.4																
SHEET 6																											
-L- 161+51	CL	8		47.91																							
-L- 161+51	CL	8B	8		45.27	45.24								27.6													
-L- 161+51	CL	8	8A		45.21	45.18								31.2													
-SR5- 18+33	CL	9			45.17	45.12								30.0													
SHEET 7																											
-L- 162+62	CL	10		47.61																							
-L- 162+62	CL	10	10A		45.37	45.51			30.0																		
-SR5- 19+55	CL	11			45.49	45.44					30.0																
-L- 163+40	CL	12		47.79																							
-L- 163+40	CL	12	12A		46.57	46.44			26.4																		
-L- 165+40	CL	13		48.44																							
-L- 165+40	RT	13B	13		46.69	46.47						27.6															
-L- 165+40	LT	14		47.21																							
-L- 165+40	LT	13	14		46.44	46.2						30.0															
-SR5- 22+15	LT	14	14A		46.17	45.89						36.0															
-L- 165+40	CL	14B	14		46.89	46.17				28.8																	
SHEET 8																											
-L- 168+79	CL	15		48.39																							
-L- 168+79	RT	15B	15		46.42	46.37					30.0																
-L- 168+79	LT	15	15A		46.34	46.31					27.6																
-SR5- 25+65	CL	16			46.29	46.23					30.0																
SHEET TOTALS								0.0	112.8	28.8	256.8	289.2	0.0	88.8	0.0	0.0	0.0	0.0	0.0		0.0		0.0		0.0		0.0	

STATION	376mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	750mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL (m) FOR PAY QUANTITY SHALL BE COL. "A" + (1.5 X COL. "B") PER EACH (0 THRU 1.50)	METERS A 1.5 THRU 3.00	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. 840.22	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	TRAFFIC BEARING DI STD. 840.36 (EA)	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	STL. GRATE & FRAME STD 840.37 (EA)	M.D.I. FRAME WITH GRATES STD. 840.20	CONVERT D.I. TO J.B.	ADJUST D.I.	T.B.J.B. STD 840.34	CONVERT J.B. TO 2GI	PREFORMED SCOUR HOLE	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" M^3 STD. 840.72	CONC. & BRICK PIPE PLUG, M^3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
SHEET 4																																						
-L- 154+05				2.4																																		STR # 1 (PIPE L. INCL. BOTH PIPES)
-SR5- 10+20																																					7.0	
-SR5- 10+28		7.2																																			8.0	
-SR5- 11+20			8.4																																			
-L- 155+50						1	0.58								1			1																				
-L- 155+50																																						
SHEET 5																																						
-L- 156+32						1	0.80								1			1																				
-L- 156+32																																						
-L- 156+32																																						
-SR5- 13+07																																						
-L- 157+20						1	0.31								1			1																				
-L- 157+20																																						
-L- 158+50						1	1.18								1			1																				
-L- 158+50																																						
-L- 158+50																																						
-SR5- 15+59																																						
SHEET 6																																						
-L- 161+51						1	1.20							1				1																				
-L- 161+51				3.4																																		
-L- 161+51																																						
-SR5- 18+33				3.4																																		
SHEET 7																																						
-L- 162+62						1	0.75							1		1	1																					3-GI
-L- 162+62																																						
-SR5- 19+55																																						
-L- 163+40						1									1			1																				
-L- 163+40																																						
-L- 165+40						1	0.50								1			1																				
-L- 165+40																																						
-L- 165+40						1	0.50									1		1																				
-L- 165+40																																						
-SR5- 22+15																																						
-L- 165+40																																						
SHEET 8																																						
-L- 168+79						1	0.55								1			1																				
-L- 168+79																																						
-L- 168+79																																						
-SR5- 25+65																																						
SHEET TOTALS	0.0	7.2	8.4	9.2	0	10	6.37	0.00	0	0	0	0	0	0	2	7	1	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15.0	

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