COMPUTED BY: K. DUNN DATE: APRIL 7, 2004
CHECKED BY: J. JATKO DATE: APRIL 7, 2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2514A	3-D

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200 mm & 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) 300	375	450	600	750	900	1050	1200	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300	400	450	600	800	900	1000	1200	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE
THICKNESS OR GAUGE																1.63	1.63	1.63	1.63	2.01	2.01	2.77	2.77			
SHEET 25 CONT.																										
170+00	CL																									
170+17	RT	100																							8.1	
170+73	RT	101																							8.1	
170+80	CL																									
171+00	CL	102	103	13.08	12.24	11.93			44.0																	
171+15	CL																									
171+27	LT																									
171+45	RT		103		12.06	11.55						27.5														
171+45	LT	103	104	12.77	11.55	10.33						49.0														
-Y1- 0+39	RT																									
-Y1- 0+50	RT	104	105	11.04	10.33	10.26						24.0														
-Y2- 0+17	CL																									
-Y2- 0+20	RT																									
-Y2- 0+30	CL	106			12.12	12.06					35.0															
-Y2- 0+49	RT																									
SHEET 26																										
173+33	RT																									
173+60	LT	108	107	11.00	10.19	9.93					23.0															
173+60	RT		108		10.83	10.19					24.5															
174+60	LT	110	109	11.17	10.36	10.14					20.5															
174+60	RT		110		10.84	10.36					20.5															
SHEET 27																										
176+73	LT	112	111	11.80	10.20	9.89					21.5															
176+73	RT		112		11.43	10.20					21.5															
177+45	CL	113			11.00	9.85					49.0															
SHEET 28																										
179+27	CL	114			11.20	10.37					47.0															
179+33	RT																									
179+34	RT																									
180+07	RT	115																						11.6		
180+57	RT																									
180+82	LT																									
181+82	RT	116	117	10.33	9.75	9.64			22.5																	
SHEET 29																										
182+50	CL	118	121	10.07	9.23	8.50											20.0									
182+57	LT	119	118	10.77	9.93	9.23			18.0																	
182+57	RT	120	118	10.77	9.93	9.23			18.0																	
183+10	LT	123	122	10.52	9.68	8.75											6.0									
183+19	RT	124	125	10.50	9.66	8.55											6.0									
183+60	LT	127	126	10.32	9.48	9.30			4.0																	
SHEET 3-D TOTAL									106.5		262.5	100.5					32.0							11.6	16.2	

STATION	LOCATION	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	C.S.P.	PER EACH (0 THRU 1.50) QUANTITIES: STRUCTURES	FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS A 1.50 THRU 3.00	B 3.00 AND ABOVE	C.B. STD. 840.01 OR 840.02	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & 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	T.B.J.B. STD. 840.34	M.H. STD. 840.51 OR 840.53	M.H. FRAME & COVER STD. 840.54	FLOWABLE FILL (m^3)	M.D.I. FRAME WITH TWO GRATES STD. 840.20	CONV. EXIST. J.B. TO D.I.	MODIFIED CONCRETE FLUME	300mm X 450mm X 450mm TEE	300 mm TEMPORARY PIPE (PLAIN C.S.)	450 mm TEMPORARY PIPE (PLAIN C.S.)	600 mm TEMPORARY PIPE (PLAIN C.S.)	800 mm TEMPORARY PIPE (PLAIN C.S.)	900 mm TEMPORARY PIPE (PLAIN C.S.)	CORR. STEEL ELBOW NO. & SIZE	PREFORMED SCOUR HOLES	CONC. COLLARS, CL. "B" m^3 STD. 840.72	CONC. & BRICK PIPE PLUG m^3 STD. 840.71	PIPE REMOVAL (meters)	REMARKS
SHEET 25 CONT.																																								
170+00	CL																																						6.6	
170+17	RT																																							
170+73	RT																																						9.9	
170+80	CL																																						7.9	
171+00	CL			1											1			1																						
171+15	CL																																						21.8	
171+27	LT																								4.2															
171+45	RT																																							
171+45	LT			1											1			1																						
-Y1- 0+39	RT																																						6	
-Y1- 0+50	RT			1								1	1																											
-Y2- 0+17	CL																																						13.4	
-Y2- 0+20	RT																																						10.2	
-Y2- 0+30	CL																																							
-Y2- 0+49	RT																																						7.5	
SHEET 26																																								
173+33	RT																																						4.3	
173+60	LT			1											1			1														2					0.4			
173+60	RT																																							
174+60	LT			1											1			1														2					0.4			
174+60	RT																																							
SHEET 27																																								
176+73	LT			1	0.10										1			1														2					0.4			
176+73	RT																																							
177+45	CL																																				0.4			
SHEET 28																																								
179+27	CL																																				0.4			
179+33	RT																																						7.9	
179+34	RT																																						6.7	
180+07	RT																																							
180+57	RT																																						11.7	
180+82	LT																																						6.2	
181+82	RT			1												1		1																						
SHEET 29																																								
182+50	CL			1											1			1																	2-400					
182+57	LT			1											1											1														
182+57	RT			1											1											1														
183+10	LT			1											1											1		1							2-400					
183+19	RT			1											1											1		1							2-400					
183+60	LT			1											1											1														
SHEET 3-D TOTAL				13	0.10							1	1		11	1		7							4.2	5		2				6			6-400		2.00		120.1	

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 JUCTION BOX