NC1010,11/10/2003,G:\TRA\30135\TRA\GEOPAK\Quant\Drainage_summaries.xls

LTNC1005

COMPUTED BY: LGC DATE: 2/20/2002

CHECKED BY: BDS DATE: 5/20/2002

METRIC

PROJECT NO.	SHEET NO.
R-2911A	3-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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) 300	375	450	600	750	900	1050	1200	CLASS IV R.C. PIPE 750	900	###	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300	400	450	600	800	900	375mm SIDE DRAIN PIPE	450mm 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.
THICKNESS OR GAUGE																			1.63	1.63	1.63	1.63	2.01	2.01					
15+77.000	LT	14	17		263.90	262.87					88.8																		
15+89.071	RT																												
16+64.971	LT	17		263.94																									
16+64.971	LT	17	18		262.72	262.00					16.8																		
16+82.000	LT	18		263.94																									
16+82.000	L/R	18	OUT		261.50	260.30						39.6																	
16+82.000	LT	18	19		262.00	262.67				18.0																			
17+00.000	LT	19		263.94																									
17+00.000	LT	19	20		262.82	263.00				30.0																			
17+30.000	LT	20		264.16																									
17+30.000	LT	20	21		263.15	263.95				62.4																			
17+41.209	CL																												
17+67.581	RT																												
17+71.353	RT																												
17+93.000	LT	21		264.96																									
17+93.000	L/R	21	IN		264.10	264.60				24.0																			
17+93.000	LT	21	21A		264.10	264.60			30.0																				
18+23.000	LT	21A		265.50																									
18+87.000	RT	22		266.35																									
18+87.000	RT	22	23		265.51	264.89		30.0																					
19+16.000	RT	23		266.75																									
19+16.000	LT	24		266.75																									
19+16.000	L/R	24	23		264.84	264.89						19.2																	
19+16.000	LT	24	OUT		264.84	264.81						10.8																	
19+16.000	RT	23	25		264.89	266.23						99.6																	
19+16.049	LT																												
Sheet 07																													
19+51.266	LT																												
19+87.387	LT																												
20+09.635	LT																												
20+15.000	LT	26		268.12																									
20+15.000	L/R	26	25		266.65	266.38						19.2																	
20+15.000	RT	25		268.12																									
20+15.000	LT	26	28		266.80	269.41						140.4																	
20+26.407	LT																												
20+66.758	CL																												
20+86.847	RT																												
21+55.000	LT	28		271.82																									
21+55.000	LT	28	IN		270.25	270.37				8.4																			
21+55.000	LT	28	29		268.47	269.70		1.2																					
21+58.000	LT	29		271.82																									
21+55.000	L/R	28	27		269.41	269.64				19.2																			
21+55.000	RT	27		271.78																									
21+55.000	RT	27	IN		269.64	269.70				8.4																			
Sheet 08																													
23+53.335	LT	30			274.46	272.60					51.6																		
24+20.000	LT	31		275.42																									
24+20.000	LT	31	32		274.51	273.81			88.8																				
25+02.771	RT																												
25+08.000	LT	32		274.72																									
SHEET TOTALS								31.2	118.8	170.4	157.2	328.8																	

STATION	QUANITIES FOR DRAINAGE STRUCTURES PER EACH (0 THRU 1.50)	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') METERS A 1.5 THRU 3.00	B 3.00 AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOODS 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 TWO GRATES STD. 840.20	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	C.B. STD. 840D01 OR STD. 840D02 (SHEET 2R)*	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	T.B.J.B. STD. 840.34	CONCRETE APRON FOR CB STD. 852.05	CONCRETE APRON FOR DI STD. 852.06	CORR. STEEL ELBOWS NO. & SIZE 300	400	450	600	800	900	CONC. COLLARS CL. "B" M^3 STD. 840.72 450	1200	CONC. & BRICK PIPE PLUG, M^3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
15+77.000																																				
15+89.071																																			15	
16+64.971	1			1			1																													
16+64.971																																				
16+82.000	1	0.94		1	1																															
16+82.000																																				
16+82.000																																				
17+00.000	1			1		1																														
17+00.000																																				
17+30.000	1			1		1																														
17+30.000																																				
17+41.209																																			29	
17+67.581																																			16	
17+71.353																																			51	
17+93.000	1			1		1																														
17+93.000																																				
17+93.000																																				
18+23.000	1			1		1																														
18+87.000	1			1			1																													
18+87.000																																				
19+16.000	1	0.36		1			1																													
19+16.000	1	0.41		1		1																														
19+16.000																																				
19+16.000																																				
19+16.000																																				
19+16.049																																			14	
Sheet 07																																				
19+51.266																																			7	
19+87.387																																			19	
20+09.635																																			14	
20+15.000	1			1		1																														
20+15.000																																				
20+15.000	1	0.39		1			1																													
20+15.000																																				
20+26.407																																			18	
20+66.758																																			12	
20+86.847																																			11	
21+55.000	1	1.5	0.35	1		1																														
21+55.000																																				
21+55.000																																				
21+58.000	1	0.62		1		1																														
21+55.000																																				
21+55.000	1	0.64		1			1																													
21+55.000																																				
Sheet 08																																				
23+53.335																																				
24+20.000	1			1			1																													
24+20.000																																				
25+02.771																																			11	
25+08.000	1			1			1																													
SHEET TOTALS	16	4.86	0.35	16	1	8	7																												217	

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