RD187117,6/24/04,R:\Quantities\NEW_021303_r513bbdrainsum.xls

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RD187117

METRIC

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

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)							
SIZE								300	375	450	600	750	900	1050	1200
THICKNESS OR GAUGE															
SHEET 16															
-L- 196+60	CL	60		47.95											
-L- 196+60	CL	60	60A		46.44	45.97			27.6						
-L- 198+00	CL	61		47.55											
-L- 198+00	CL	61	61A		46.05	45.17			30.0						
SHEET 17															
-L- 199+30	CL	62		47.16											
-L- 199+30	CL	62	62A		45.36	44.37			31.2						
-L- 200+05	CL	63		47.01											
-L- 200+05	CL	63	63A		45.01	43.91			32.4						
-L- 200+26.75	CL	64			43.85	43.61							67.2		
-L- 200+80	CL	65		47.16											
-L- 200+80	CL	65	65A		45.66	45.49			27.6						
-L- 202+30	CL	66		47.61											
-L- 202+30	CL	66	66A		46.61	46.39			27.6						
SHEET 18															
-L- 205+40	CL	67		47.61											
-L- 205+40	CL	67	67A		45.81	45.11			31.2						
SHEET 19															
-L- 206+34	CL	68			44.26	43.99						68.4			
-L-207+00	CL	69		47.13											
-L-207+00	CL	69	69A		45.63	45.31			27.6						
-Y- 12+68	CL	70			43.36	43.18						76.8			
-Y- 12+78	RT	70A													
-Y- 14+57	RT	71		54.36											
-Y- 14+88	RT	72		54.73											
-Y- 14+88	RT	72	71		53.73	53.36			30.0						
-Y- 14+57	RT	71	71A		53.33	45.23									
-L- 208+80	CL	73		46.95											
-L- 208+80	CL	73	73A		44.49	43.04			36.0						
-L- 209+00	CL	74			43.00	42.84									80.4
-Y- 15+40	LT	74A													
-Y- 15+47	LT	74C													
-Y- 15+48	LT	74B													
-Y- 16+50	RT	75		53.49											
-Y- 16+50	RT	75	75A		52.49	45.60									
-L- 210+80	CL	76		45.99											
-L- 210+80	CL	76	76A		45.20	45.12			27.6						
-Y- 13+00	LT	76B													
-Y- 13+00	RT	76C													
SHEET 20															
-L- 212+80	CL	77		45.39											
-L- 212+80	CL	77	77A		44.55	44.47			27.6						
SHEET TOTALS								0.0	356.40	0.0	0.0	145.20	67.20	0.0	80.40

STATION	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)													375mm 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		QUANITIES FOR DRAINAGE STRUCTURES *TOTAL (m) FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')	METERS		C.B. STD. 840.01 OR STD. 840.02
SIZE	300	400	450	600		800		900		1000		1200								A	B	
THICKNESS OR GAUGE	1.63	1.63	1.63	1.63		2.01		2.01		2.01		2.01					R.C.P.	C.S.P.	PER EACH (0 THRU 1.50)	1.5 THRU 3.00	3.00 AND ABOVE	
SHEET 16																						
-L- 196+60																			1			
-L- 196+60																						
-L- 198+00																			1			
-L- 198+00																						
SHEET 17																						
-L- 199+30																			1	0.30		
-L- 199+30																						
-L- 200+05																			1	0.50		
-L- 200+05																						
-L- 200+26.75																	2.6					
-L- 200+80																			1	0.30		
-L- 200+80																						
-L- 202+30																			1			
-L- 202+30																						
SHEET 18																						
-L- 205+40																			1	0.30		
-L- 205+40																						
SHEET 19																						
-L- 206+34																						
-L-207+00																			1			
-L-207+00																						
-Y- 12+68																						
-Y- 12+78																						
-Y- 14+57																			1			
-Y- 14+88																			1			
-Y- 14+88																						
-Y- 14+57		37.2																				
-L- 208+80																			1	0.96		
-L- 208+80																						
-L- 209+00																	4.6					
-Y- 15+40																						
-Y- 15+47																						
-Y- 15+48																						
-Y- 16+50																			1			
-Y- 16+50		30.0																				
-L- 210+80																			1			
-L- 210+80																						
-Y- 13+00															51.6							
-Y- 13+00															36.0							
SHEET 20																						
-L- 212+80																			1			
-L- 212+80																						
SHEET TOTALS	0.0	67.20	0.0	0.0		0.0		0.0		0.0		0.0		0.0	87.6	0.0	7.2	0	14	2.36	0	0

STATION	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 16																																						
-L- 196+60							1			1																												
-L- 196+60																																						
-L- 198+00							1			1																												
-L- 198+00																																						
SHEET 17																																						
-L- 199+30							1			1																												
-L- 199+30																																						
-L- 200+05							1			1																												
-L- 200+05																																					11.9	
-L- 200+26.75																																						BURIED 0.15 m BOTH ENDS
-L- 200+80							1			1																												
-L- 200+80																																						
-L- 202+30							1			1																												
-L- 202+30																																						
SHEET 18																																						
-L- 205+40							1			1																												
-L- 205+40																																						
SHEET 19																																						
-L- 206+34																																						
-L-207+00							1			1																												
-L-207+00																																						
-Y- 12+68																																						
-Y- 12+78																																					5.8	
-Y- 14+57							1												1																			
-Y- 14+88							1												1																			
-Y- 14+88																																						SEE STD 820.04
-Y- 14+57																																		2-400				SEE STD 820.04
-L- 208+80							1			1																												
-L- 208+80																																						
-L- 209+00																																						
-Y- 15+40																																					8.3	
-Y- 15+47																																					16.3	
-Y- 15+48																																					5.9	
-Y- 16+50							1												1																			SEE STD 820.04
-Y- 16+50																																		2-400				
-L- 210+80								1		1																												
-L- 210+80																																						
-Y- 13+00																																						
-Y- 13+00																																						
SHEET 20																																						
-L- 212+80								1		1																												
-L- 212+80																																						
SHEET TOTALS				0	0	0	12	2	0	11	0	0	0	0	0	0	0	0	3	0	0	0	0										0	4-400			48.2	

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

6/24/04