RD104,10/13/00,G:\Admin\DataMasters\Excel_sheets\Drainage_Summaries.xls

COMPUTED BY: RWZ DATE: MARCH 2004

CHECKED BY: WCP DATE: APRIL 2004

METRIC

PROJECT NO. R-513C SHEET NO. 3-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

STATION (SIZE / THICKNESS OR GAUGE)	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 (1.63)	400 (1.63)	450 (1.63)	600 (1.63)	800 (2.01)	900 (2.01)	1000 (2.01)	1200 (2.01)	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.	QUANTIES 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 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 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	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
23+85 -Y5-	LT	34		43.01	42.2	41.19			64.8																				1										1			1											
23+90 -Y5-	LT	35		51.68																									1										1		1												
		35	36		50.87	50.82			10.8																																												
23+94 -Y5-	RT	36		51.68	50.82	41.19											37.2												1										1		1								2 @ 400				
272+66 -L-	CL	37		42.78	41.97	41.36			42.0																				1										1			1											
272+90 -L-	CL	38			41.15	41									104.4												4.6																									16.8	
275+20 -L-	CL	39		50.06	49.25	42.9											55.2												1										1			1							2 @ 400				
276+50 -L-	CL	40			42.3	41.8				129.6 (CL IV)																																											METHOD "B" INSTALLATION
276+68 -L-	RT	41		51.59	50.78	43.72											26.4												1										1		1								2 @ 400				
277+21 -L-	LT	42		52.58	51.77	42.58											43.2												1										1		1								2 @ 400				
278+69 -L-	LT	42A		52.35																									1										1		1												
		42A	59		51.54												21.6																																2 @ 400				
278+15 -L-	RT	43		52.59	51.78	42.54											39.6												1										1		1								2 @ 400				
21+93 -Y5-	CL	44			40.72	40.55									58.8												4.6																										
4+11 -RPB-	CL	45			41.92	41.25				80.4																																											
4+37 -RPB-	CL	46			41.3	41.15						106.8																																									
2+15 -LPB-	RT	47		48.67	47.73	41.15											30.0												1			1		1															2 @ 400				
3+80 -LPB-	RT	48		45.54	44.6	42.4											15.6												1			1		1															2 @ 400				
5+49 -LPB-	RT	49		43.54	42.5	42.45				7.2																			1			1	1																				
5+49 -LPB-	CL	50		43.54	42.5	42.71				18.0																																											
18+43 -Y5-	CL	51			41	40.85							32.4														2.6																										
18+79 -Y5-	CL	51A			41.2	40.4				33.6																																											
5+88 -RPB-	CL	52			41.84	42				51.6																																											
17+03 -Y5-	CL	53		42.76	41.84	41.75				27.6																			1										1					1									
29+55 -COBC-	CL	54		44.3	43.46	41.67			26.4																				1										1			1											
28+23 -COBC-	CL	55		44.18	43.37	42.9			21.6																				1										1			1								0.29			REMOVE FES
29+40 -Y2-	RT	56		44.89																									1										1			1											
		56	57		44.08	44			12.0																																												
29+40 -Y2-	LT	57		44.89																									1										1			1											
		57	58		42.71	42.61				19.2																																											
29+40 -Y2-	LT	58		44.88																									1										1			1											
		58	59		42.61	42.44				34.8																																											
29+14 -Y2-	LT	59			42.44	42.19				50.4																			1																1								
+40 -RPC-	CL	60			42.58	42.5				33.6																																										16.8	REMOVE 375 CONC.
1+67 -LPC-	LT	61		45.85	44.91	42			22.8																				1			1			1																		
1+82 -LPC-	CL	62			41.25	41.21								34.8													3.4																										
2+60 -LPC-	LT	63		44.08	43.14	41.6			14.4																				1			1			1																		
																											3.4																										
3+33 -LPC-	CL	64			41.43	41.37								30.0																																							
3+41 -LPC-	LT	65		43.46	42.52	41.5			12.0																				1			1	1																				
34+00 -Y2-	LT	66		44.57																									1	1.1									1			1											
SHEET TOTALS									226.8	356.4		106.8	32.4	64.8	163.2		268.8										18.6		23	1.1		6	2	2	2				16		6	9		1	1				16 @ 400	0.29		33.6	
										129.6 (CL IV)																																											

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