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

COMPUTED BY: RWZ DATE: MARCH 2004

CHECKED BY: WCP DATE: APRIL 2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.	SHEET NO.
R-513C	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								BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) SIZE									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		QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS			C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE			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
THICKNESS OR GAUGE		FROM	TO					300	375	450	600	750	900	1050	1200	300	400	450	600	800	900	1000	1200				R.C.P.	C.S.P.	PER EACH (0 THRU 1.50)	A: 1.5 THRU 3.00	B: 3.00 AND ABOVE		E	F	G																										
		66	67		41.82	41.77																																															
34+00 -Y2-	CL	67		43.92																									1	1.2																						0.96			REM. 2 FES - 2 COLLARS
		67	67A		41.77	41.56						15.6																																									
34+00 -Y2-	RT	67A		44.06																									1	1.2																								
		67A	68		41.56	COLLAR																																															
34+00 -Y2-	RT	68			COLLAR	41.48						15.6																																							0.48			REMOVE FES
8+88 -RPD-	RT	69			42	41.9						18.0																		1																								
8+88 -RPD-	RT	70			41.9	42.1				32.4																																											
7+83 -RPD-	LT	71		42.94	42.38	42.25			26.4																				1																								
4+97 -LPD-	RT	72		43.46	42.7	42.65			4.8																				1			1	1																			
4+48 -LPD-	CL	73			42.8	42.55				25.2																																											
3+30 -LPD-	RT	74		46.39	45.45	43.41											16.8												1			1		1																2 @ 400			
31+25 -Y2-	LT	75		44.77																									1																								
		75	76		44.21	44.08			20.4																																											
31+25 -Y2-	LT	76		44.91																									1																								
		76	57		44.08	42.71			183.6																																											
		76	77		44.08	44.33			12.0																																											
31+25 -Y2-	RT	77		44.89																									1																								
31+25 -Y2-	RT	78		44.23	43.63	43.27			22.8																				1																								
280+40 -L-	CL	79		49.72	48.91	42.62											54.0												1																						2 @ 400			
282+23 -L-	CL	80		46.63	45.82	41.73											38.4												1																						2 @ 400			
284+30 -L-	CL	81		42.5																									1																								
		81	89		41.69	41.05			40.8																																											
286+16 -L-	CL	82			40.29	39.85								136.8														4.6																								
286+19 -L-	CL	83			40.29	39.85								139.2																																					
4+15 -LPA-	LT	84		44.16	43.22	42.96			9.6																				1			1	1																			
3+40 -LPA-	CL	84A			42.3	42.1				36.0																																											
2+40 -LPA-	LT	85		45.95	45.01	42.41											18.0												1			1			1															2 @ 400			
1+60 -LPA-	LT	86		46.88	45.94	42.67											20.4												1			1			1															2 @ 400			
4+12 -RPA-	CL	87			41.5	41.3					58.8																																										
3+24 -RPA-	CL	88			41.9	41.8				39.6																																										
0+97 -RPA-	RT	89		41.86																									1																								
		89	90		41.05	40.27				82.8																																										
4+12 -RPA-	RT	90		41.72																									1																								
		90	91		40.27	40.12					69.6																																									
285+90 -L-	LT	91		41.08	40.12	40.1					9.6																		1																								
2+05 -LPD-	RT	92		49.03	48.09	42.61											38.4												1			1		1															2 @ 400			
2+25 -LPD-	CL	93			42.4	42.2					73.2																																										
2+22 -RPD-	CL	94			42	41.8					44.4																																									
SHEET TOTALS									320.4	216.0	255.6	49.2		276.0			186.0												4.6			20	2.4		6	2	2	2		2	7	4		13		1											12 @ 400	1.44			

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