RA1-D6HNJ01,7/24/2003,R:\Roadway\Estimate\Final\Drainage_Summary.xls

COMPUTED BY: CLB DATE: 7/22/2003

CHECKED BY: RDH DATE: 7/22/2003

RA1-FLD8501

PROJECT NO.	SHEET NO.
U-0620	*3-C*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT, RT, OR CL)'	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) SHADED BLOCK = CLASS IV R.C. PIPE								BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)								15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	36" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS		QUANITIES FOR DRAINAGE STRUCTURES	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT.		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. (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.D.I. STD. 840.35 OR 840.32	T.B.J.B. STD. 840.34	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	BERM DRAINAGE OUTLET STD 850.10	24x24x15 RC PIPE TEES, CLASS III	15x15x15 RC PIPE TEES, CLASS III	18x18x18 RC PIPE TEES, CLASS III	CONVERT EXISTING DROP INLET TO JUNCTION BOX	CONVERT EXISTING DROP INLET TO CATCH BASIN	CONCRETE APRON FOR CATCH BASIN STD. 852.05	CONCRETE APRON FOR DROP INLET STD. 852.06	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 LIN. FT.	REMARKS
SIZE								12	15	18	24	30	36	42	48	12	15	18	24"	30"	36"	42"	48"							A	B																													
THICKNESS OR GAUGE		FROM	TO													.064	.064	.064	.064	.079	.079	.109	.109				R.C.P.	C.S.P.	PER EACH (0' THRU 5.0')	5.0' THRU 10.0'	10.0' AND ABOVE		E	F	G																									
SHEET 6																																																												
-Y3- 12+00	RT	56	54		164.91	163.77				72																																																		
-Y3- 12+00	LT	54		168.11																									1			1			1																									
-Y3- 11+98	LT	55		167.80																									1							1	1																						115	REMOVE 2 DI
-Y3- 11+98	LT	55	54		164.01	163.77				12																																																		
-Y3- 12+00	LT	54	53		163.77	160.52					88																																																	
-Y3- 13+08	LT	53		TEE																																													1												TEE - 24'x24"x15"
-Y4- 10+75	RT	52		164.91																									1			1	1																													
-Y4- 10+75	RT	52	53		161.81	160.52			40																																																			
-Y3- 13+08	LT	53	51		160.52	158.00					68																																																	
-Y3- 13+60	LT	51		161.75																									1			1			1																									
-Y3- 13+60	CL	50		162.57																									1														1																		148	TBJB W/SLAB TOP, FUTURE TBDI
-Y3- 13+60	CL	50	51		159.47	158.75			32																																																			
-Y3- 13+60	LT	51	50A		157.85	148.38					128																																																	
-Y3- 16+15	LT	48		148.35																									1			1			1																									
-Y3- 16+05	LT	49	48		159.60	145.10												40																																										
-Y3- 16+15	LT	48	47		144.45	144.28	X				32																																																	
-Y3- 16+15	CL	47		149.47																									1	0.34		1			1																					1						
-Y3- 16+15	CL	47	46		144.13	140.66					60																																																	
-Y3- 16+30	RT	46		144.46																									1															1																		
-Y3- 15+65	RT	IN	46		141.20	140.66				84																																																		
-Y3- 16+30	RT	46	OUT		140.66	139.50					20																																																	
-Y3- 16+11	LT	49																																															1									2 - 18				BDO
-L- 39+00	RT	57	44		140.48	126.44						300																																																	
-L- 42+00	RT	57		145.58																									1	0.10		1			1																									
-L- 42+20	CL	59		147.90																									1			1			1																				1							
-L- 42+20	CL	59	58		144.80	144.32			20																																																			
-L- 42+00	CL	58		147.27																									1			1			1																				1							
-L- 42+00	CL	58	57		144.17	141.73			56																																																			
-L- 42+00	RT	60	57		149.65	140.98					252																																																	
-L- 44+50	RT	60		153.55																									1			1			1																									
-L- 44+50	CL	61		155.51																									1			1			1																				1							
-L- 44+50	CL	61	60		152.41	150.55			64																																																			
-L- 44+50	RT	62	60		154.46	149.80					152																																																	
-L- 46+00	RT	62		158.36																									1			1			1																									
-L- 47+00	CL	64		163.13																									1			1			1																				1							
-L- 47+00	CL	64	63		160.03	157.20			100																																																			
-L- 46+00	CL	63		160.15																									1			1			1																				1							
-L- 46+00	CL	63	62		157.05	155.36			60																																																			
-L- 46+00	RT	65	62		163.34	154.61					268																																																	
-L- 48+72	RT	65		167.24																									1			1			1																									
-L- 48+72	RT	66	65		164.10	163.49					76																																																	
-L- 48+85	LT	66		168.00																									1			1		1																										
-L- 48+85	LT	67	66		168.30	164.25					212																																																	
SHEET 7																																																												
-L- 50+95	LT	67		174.33																									1	1.03		1		1																										
-L- 51+50	CL	69		176.61																									1			1		1																				1							
-L- 51+50	CL	69	68		173.51	172.34			56																																																			
SHEET TOTALS									428	168	1356	300						40											20	1.47		17	1	3	13	1	1						1	1				1	1					6	1	2 - 18			263	

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