D9CAD212285,8/9/2004,R:\Drainage_summaries2.xls

D9CAD206385

COMPUTED BY: BLC DATE: 8/6/2004

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PROJECT NO.	SHEET NO.
I-2102	3-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & 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) 12"	15"	18"	24"	30"	36"	42"	48"	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109
4+08 RAMP A	L	19	OUT	807	804.16				24														
26+49 -L-	R	20		804.1			X																
		20	21		801.3	800.3			232														
28+80 -L-	R	21		803.1			X																
		21	23		800.3	800.1			8														
28+88 -L-	R	23		803.1																			
		23	24		800.1	798			144														
30+28 -L-	R	24	OUT	804.2	798	791.6				120													
28+86 -L-	L	25	OUT	803.2	800.4	797.4			48														
31+52 -L-	L	26		808.2																			
		26	25		805.3	800.4			272														
31+50 -L-	L	26A		808.8																			
		26A	26		806.5	805.4			12														
35+58 -L-	L	27		828.5																			
		27	28		826.3	825.8			12														
35+60 -L-	L	28		828.6																			
		28	26		825.8	805.4			408														
5+39 RAMP B	R	29		780.2																			
		29	30		774.1	770.6						120											
4+36 RAMP B	L	30		775.9																			
		30	31		770.6	767.8						32											
15+01 -Y1-	R	31	OUT	772.3	767.8	767.3							56										
4+45 RAMP B	R	EX	30			770.6				40													
12+05 -Y1-	R	32		768.2	763.6					4													
21+25 -I40-	L	33	37	767.2	764.2	763.7				120													
17+25 -I40-	L	34	35	758.5	755.5	754.8				120													
16+10 -I40-	L	35		759	754.8																		
14+51 -I40-	L	36	OUT														56						
20+10 -I40-	L	37		768	763.7																		
SHEET TOTALS									1160	404		152	56				56						

STATION	FROM	TO	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A 5.0' THRU 10.0'	B 10.0' 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 GRATE 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	TRAFFIC BEARING J.B. STD. 840.34	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	CONCRETE APRON FOR DI STD. 852.06
4+08 RAMP A	19	OUT						1			1		1																	
26+49 -L-	20							1			1		1																	
	20	21																												
28+80 -L-	21							1			1	1																		
	21	23																												
28+88 -L-	23							1			1	1																		
	23	24																												
30+28 -L-	24	OUT						1	1.4		1			1																
28+86 -L-	25	OUT						1			1	1																		
31+52 -L-	26							1			1		1																	
	26	25																												
31+50 -L-	26A							1							1	1														
	26A	26																												
35+58 -L-	27							1							1	1														
	27	28																												
35+60 -L-	28							1			1		1																	
	28	26																												
5+39 RAMP B	29							1	1.1									1			1									
	29	30																												
4+36 RAMP B	30							1	0.3									1			1									
	30	31																												
15+01 -Y1-	31	OUT						1										1			1									
4+45 RAMP B	EX	30																												
12+05 -Y1-	32							1										1			1									
21+25 -I40-	33	37						1										1			1									
17+25 -I40-	34	35						1										1			1									
16+10 -I40-	35							1																	1					
14+51 -I40-	36	OUT																											1	
20+10 -I40-	37							1																	1					
SHEET TOTALS								18	2.8		8	3	4	1	2	2		6			6				2				1	

STATION	FROM	TO	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
4+08 RAMP A	19	OUT					CB
26+49 -L-	20					104.63	CB
	20	21					
28+80 -L-	21						CB
	21	23					
28+88 -L-	23					39.37	CB
	23	24					
30+28 -L-	24	OUT					CB
28+86 -L-	25	OUT					CB
31+52 -L-	26					106.6	CB
	26	25					
31+50 -L-	26A						DI
	26A	26					
35+58 -L-	27						DI
	27	28					
35+60 -L-	28					316.02	CB
	28	26					
5+39 RAMP B	29					141.56	2GI
	29	30					
4+36 RAMP B	30						2GI
	30	31					
15+01 -Y1-	31	OUT					2GI
4+45 RAMP B	EX	30			0.4465	8.72	
12+05 -Y1-	32				0.4465		2GI
21+25 -I40-	33	37					2GI
17+25 -I40-	34	35					2GI
16+10 -I40-	35						CONVERT TO TBJB
14+51 -I40-	36	OUT	2@15"				BDO
20+10 -I40-	37						CONVERT TO TBJB
SHEET TOTALS			2		0.893	716.9	

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