6/21/00

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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PROJECT REFERENCE NO.	SHEET NO.
B-3450	3-B

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & 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) 12"	15"	18"	24"	30"	36"	42"	48"	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHRWISE) 12"	15"	18"	24"	30"	36"	42"	48"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	CU. YDS. C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL."B") PER EACH (0' THRU 5.0')	LIN. *FT. A (5.0' THRU 10.0')	LIN. *FT. 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 & 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	M.D.I. FRAME WITH TWO FLAT GRATES STD. 840.29	PARALLEL PIPE END SECTION	CORR. STEEL ELBOWS NO. & SIZE 24"	CORR. STEEL ELBOWS NO. & SIZE 15"	CONC. COLLARS CL. "B" C.Y. STD 840.72	15" C.S. PIPE CULVERT, 0.064" THICK	PIPE REMOVAL LIN.FT.	REMARKS
-L-25+30	Lt	18		256.07																									1			1			1																	
		18	16		247.80	247.20	Y					199																																									
-L-26+05	Lt	19		252.65																									1	3.37																						
		19	20		249.65	249.03	Y			19																																									
-L-26+06	Lt	20		256.40																									1	3.30		1	1																		
		20	18		248.03	247.80	Y					75																																								
-L-26+95	Lt	21		REMARK																									1			1			1																	22	TOP ELEV. TO MATCH EX. CB
		21	20		248.30	248.03	Y					89																																								
-DET1- 2+75	Lt	6A																																																40	40	
-DET2- 1+55	Lt	OE	14A		254.40	253.95																																											36	36	
-DET2- 1+90	Lt	14A		256.70																									1						1																	
		14A	15A		253.95	253.70	Y																																											84	84	
-DET2- 2+70	Lt	15A		258.15																									1						1																	
		15A	OUT		253.70	248.50																																											64	64	
SUBTOTAL																														6.67																						
SHEET TOTAL										19		363																	6	6.67		3	1		2																309	
TOTAL									253	360	234	454					92		24										23	18.86		15	2	5	8															2	4		224	706	

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 JUCTION BOX

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 54" & OVER)

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) 54"	60"	66"	72"	78"	84"	BITUMINOUS COATED C.S. PIPE TYPE B 54" .109	54" .138	54" .168	54" SHOP ELONGATED .138	54" SHOP ELONGATED .168	60" .138	60" .168	66" .138	66" .168	72" .138	72" .168	STRUCTURAL PLATE PIPE 60" 12	60" 10	66" 12	66" 10	72" 12	72" 10	REINFORCED ENDWALLS WITH R.C. – C.Y.	REINFORCED ENDWALLS WITH C.S. – C.Y.	MASONARY DRAINAGE STRUCTURES CUBIC YARDS	142" X 91" C.S. PIPE ARCH CULVERT, 0.138" THICK	REINF. CONC. FLARED END SECTIONS NO. & SIZE	CORR. STEEL FLARED END SECTIONS NO. & SIZE	REINF. CONC. ELBOWS NO. & SIZE	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD 840.72	PIPE REMOVAL LIN.FT.	REMARKS
-DET1- 4+10	Lt&Rt	8A			247.6	247.2																	78																	PLAIN CS PIPE
-DET1- 4+18	Lt&Rt	9A			247.6	247.2																	78																	PLAIN CS PIPE
-DET1- 4+31	Lt&Rt	10A			246.1	245.7																												78								PLAIN CS PIPE
-DET1- 4+43	Lt&Rt	11A			247.6	247.2																	78																	PLAIN CS PIPE
TOTAL																							234													78										

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 JUCTION BOX

STIMES
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