5/28/99

COMPUTED BY: RES DATE: 12-14
CHECKED BY: DJM DATE: 1-15

PROJECT REFERENCE NO.	SHEET NO.
B-5404	3D-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

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

STATION	LOCATION (LT, RT, OR CL)*	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
								THICKNESS OR GAUGE											
-L- 15+54	LT.	402			3537.90	3536.94													
-L- 16+54	RT.	403		3541.59															
		403	404		3538.42	3537.75													
-L- 17+17	RT.	405			3537.63	3535.06													
-L- 18+69	RT.	406			3540.67	3540.25													
-L- 19+64	RT.	407			3542.30	3541.80													
-L- 20+95	RT.	408			3547.08	3547.00													
-L- 21+58	LT.	409																	
-L- 15+53	LT.	410			3539.47	3539.15													
SHEET TOTALS																			

STATION	C.S. PIPE SIZE 12"	15"	18"	24"	30"	36"	42"	48"	THICKNESS OR GAUGE .064	.064	.064	.079	.079	.109	.109	R.C. PIPE CLASS III SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV SIZE 12"	15"	18"	24"	30"	36"	42"	48"
-L- 15+54																														
-L- 16+54																														
										12																				
-L- 17+17																														
-L- 18+69																														
-L- 19+64																														
-L- 20+95																														
-L- 21+58																														
-L- 15+53										40																				
SHEET TOTALS										52																				

STATION	** R.C. PIPE (CLASS V)	*** RC PIPE CULVERTS, CONTRACTOR DESIGN	**** RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	LIN. FT. 5.0' THRU 10.0' A	10.0' AND ABOVE B	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B")	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.G.D.I. STD. 840.35	T.B.D.I. FRAME WITH TWO GRATES STD. 840.29	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L- 15+54				52																										
-L- 16+54								1																						
-L- 17+17					44																									
-L- 18+69				28																										
-L- 19+64				24																										
-L- 20+95				24																										
-L- 21+58																														20
-L- 15+53																														40 SEE TMP-4 FOR TEMPORARY DRIVEWAY PIPE
SHEET TOTALS				128	44			1																			1	1		131

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	(NARROW SLOT) JUNCTION BOX
J.B.	MANHOLE
M.H.	TRAFFIC BEARING DROP INLET
T.B.D.I.	TRAFFIC BEARING JUNCTION BOX
T.B.J.B.	

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