COMPUTED BY: BJF

CHECKED BY: ARV

RD248621

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-5751	3D-4

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 54 INCHES & OVER)

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) 54"	60"	66"	72"	78"	84"	90"	96"	C.S. PIPE 54"	60"	66"	72"	78"	84"	90"	96"
L 24+12	CL	0502A	0502B		79.00	78.59																	
L 24+22	CL	0503A	0503B		79.00	78.59																	
Y1RPC 19+65	CL	0645A	0645B		79.10	79.00																	
SHEET TOTAL																							

LINE & STATION	R.C. PIPE CLASS III 54"	60"	66"	72"	78"	84"	90"	96"	R.C. PIPE CLASS IV 54"	60"	66"	72"	78"	84"	90"	96"	STRUCTURAL PLATE PIPE 60"	66"	72"	78"	84"
L 24+12																					
L 24+22																					
Y1RPC 19+65	92																				
SHEET TOTAL	92																				

LINE & STATION	##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	##" x ##" C.A.A. PIPE ARCH CULVERTS, ##" THICK	##" x ##" C.S. STRUCTURAL PLATE PIPE ARCH, ## GAUGE	66" WELDED STEEL PIPE 1.000" THICK, GRADE B IN SOIL	##" WELDED STEEL PIPE ##" THICK, GRADE ## NOT IN SOIL	##" WELDED STEEL PIPE ##" THICK, GRADE B (UNDER RR)	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	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
L 24+12					172				9.3							
L 24+22					172				9.3							
Y1RPC 19+65									10.0							
SHEET TOTAL					344				28.6							

LINE & STATION	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE 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. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 3 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 3 GRATES STD. 840.22	J.B. STD. 840.31 OR 840.32	T.B.G.D.I. STD. 840.35	T.B.G.D.I. STD. 840.36	STEEL FRAME AND TWO GRATES STD. 840.37	STEEL FRAME AND GRATE STD. 840.37	M.H. STD. 840.51, STD. 840.52, OR STD.53	M.H. FRAME AND COVER STD. 840.54
L 24+12																		
L 24+22																		
Y1RPC 19+65																		
SHEET TOTAL																		

LINE & STATION	CONVERT EXISTING D.I. TO C.B.	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO 2 G.I.	ADJUST EXISTING MANHOLE	ADJUST D.I.	ADJUST 2GI	15" C.S. ELBOW	18" C.S. ELBOW	24"C.S. ELBOW	SPECIAL CONCRETE MEDIAN 2GI	BERM DITCH OUTLET STD. 850.10 (PER EACH)	PREFORMED SCOUR HOLE (PER EACH)	CONC. COLLARS CL. "B" C.Y. STD. 840.72	FLOWABLE FILL, C.Y.	CONC. & BRICK PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN. FT.					REMARKS
L 24+12															3.40		159					Use 838.34 Reinforced Concrete Endwall w/ Wingwalls Plug & Fill 75LF of 15" RCP / Remove 159LF of 36" RCP
L 24+22																	159					Use 838.34 Reinforced Concrete Endwall w/ Wingwalls Remove 159LF of 36" RCP
Y1RPC 19+65																						Use 838.21 Reinforced Concrete Endwall w/ Wingwalls
SHEET TOTAL															3.40		318					

ABBREVIATIONS

C.A.A - CORRUGATED ALUMINUM INLET
C.B - CATCH BASIN
C.S. - CORRUGATED STEEL
D.I. - DROP INLET
G.D.I. - GRATED DROP INLET
P.D.P.E. - HIGH DENSITY POLYETHYLENE
J.B. - JUNCTION BOX
M.H. - MANHOLE
N.S. - NARROW SLOT
P.V.C. - POLYVINYL CHLORIDE
R.C. - REINFORCED CONCRETE
T.B.D.I. - TRAFFIC BEARING DROP INLET
T.B.J.B. - TRAFFIC BEARING JUNCTION BOX
W.S. - WIDE SLOT