11/14/23

BR-0168

FP | 3D-4

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION FORSYTH COUNTY

ROADWAY DESIGN UNIT

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
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 54 INCHES & GREATER)

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 %	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	54	60	66	72	78	84	90
LPB 10+45	49	LT	0502		823.0																		
			0502	0501		815.6	809.0											92					
L 23+12	124	LT	0523		813.4																		
			0523	0430		805.4	804.1												48				
L 22+94	75	LT	0430		821.2																		
			0430	0433		804.1	797.9																
L 21+87	115	RT	0433		817.2																		
			0433	0434		797.9	795.7												77				
LPB 10+10	26	RT	0501	0532		809.0	808.7											48					
LPB 10+00	78	RT	0532		816.4																		
			0532	0500		808.7	808.4											51					
LPB 10+00	26	RT	0501		815.8																		
SHEET TOTALS (54" or More)																		191	125				
PROJECT TOTALS (54" or More)																		191	125				

LINE & STATION	FROM	TO	##" x ##" C.S. PIPE ARCH CULVERTS, ##" THICK	##" x ##" C.S. STRUCTURAL PLATE PIPE ARCH, ## GAUGE	66" WELDED STEEL PIPE 0.875" THICK, GRADE B IN SOIL	66" WELDED STEEL PIPE 0.875" THICK, GRADE B 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	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G
LPB 10+45	0502								5.600								
	0502	0501															
L 23+12	0523								6.300								
	0523	0430															
L 22+94	0430									13.000							
	0430	0433			109	109											
L 21+87	0433									15.000							
	0433	0434															
LPB 10+10	0501	0532															
LPB 10+00	0532									5.180							
	0532	0500															
LPB 10+00	0501									4.090							
SHEET TOTALS (54" or More)					109	109			12	37							
PROJECT TOTALS (54" or More)					109	109			12	37							

LINE & STATION	FROM	TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	C.B. MIN DEPTH STD. (SPECIAL DETAIL)	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
LPB 10+45	0502																																	
	0502	0501																																
L 23+12	0523																																	
	0523	0430																																
L 22+94	0430																						1						1					
	0430	0433																																
L 21+87	0433																						1						1					
	0433	0434																																
LPB 10+10	0501	0532																																
LPB 10+00	0532									1						1																		
	0532	0500																																
LPB 10+00	0501																																	
SHEET TOTALS (54" or More)										1						1							2						2					
PROJECT TOTALS (54" or More)										1						1							2						2					

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.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**

REVISIONS