

<b>COMPUTED BY:</b>	VWB	<b>DATE:</b>	2/9/2018
<b>CHECKED BY:</b>	JDL	<b>DATE:</b>	2/12/2018

**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 48 INCHES & UNDER)***

LINE & STATION		OFFSET		STRUCTURE NUMBER		SHEET TOTALS																		PROJECT TOTALS																		ABBREVIATIONS																																																																																																																																																																																																																							
SIZE	THICKNESS OR GAUGE	From	To	Top Elevation FT.	Invert Elevation FT.	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC)						C. S. PIPE						R. C. PIPE CLASS III						R. C. PIPE CLASS IV						36" WELDED STEEL PIPE 0.532" THICK, GRADE B (UNDER RR)						36" WELDED STEEL PIPE 0.532" THICK, GRADE B (UNDER RR)						REINFORCED ENDWALLS						QUANTITIES FOR DRAINAGE STRUCTURES						D.I. STD. 832.04 OR STD. 832.06 CONCRETE SECTION						C.B. STD. 832.05 TRANSITIONAL SECTION						OPEN THROAT C.B. STD. 840.04 OR STD. 840.05						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. SAGI) FRAME W/ GRATE STD. 840.22						G.D.I. (W.S. SAGI) FRAME W/ 2 GRATES STD. 840.22						G.D.I. (N.S. SAGI) FRAME W/ GRATE STD. 840.24						G.D.I. (N.S. SAGI) 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.J.B. STD. 840.34						T.B.D.I. STD. 840.35						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						CONVERT EXISTING C.B. TO J.B.						CONVERT EXISTING C.B. TO D.I.						CONVERT EXISTING D.I. TO J.B.						CONVERT EXISTING J.B. TO G.D.I.						ADJUST C.B.						ADJUST D.I.						15" C.S. ELBOW						18" C.S. ELBOW						4" CONCRETE PAVED DITCH, S.Y.						PIPE REMOVAL						REMARKS					
LINE & STATION		OFFSET		STRUCTURE NUMBER		Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC)						C. S. PIPE						R. C. PIPE CLASS III						R. C. PIPE CLASS IV						36" WELDED STEEL PIPE 0.532" THICK, GRADE B (UNDER RR)						ENDWALLS						CY						REINFORCED ENDWALLS						CY						MASONRY						DRAINAGE STRUCTURE						NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)						STD. 840.01 OR STD. 840.02						STD. 840.03						E						F						G						D.I. STD. 832.04 OR STD. 832.06 CONCRETE SECTION						C.B. STD. 832.05 TRANSITIONAL SECTION						OPEN THROAT C.B. STD. 840.04 OR STD. 840.05						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. SAGI) FRAME W/ GRATE STD. 840.22						G.D.I. (W.S. SAGI) FRAME W/ 2 GRATES STD. 840.22						G.D.I. (N.S. SAGI) FRAME W/ GRATE STD. 840.24						G.D.I. (N.S. SAGI) 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						ANGLE VANE GRATES AND FRAMES STD. 840.33						T.B.J.B. STD. 840.34						T.B.D.I. STD. 840.35						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						CONVERT EXISTING C.B. TO J.B.											

SHEET TOT

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