COMPUTED BY: JBJ	DATE: 05-19-2015
CHECKED BY: LHJ	DATE: 06-26-2015

PROJECT REFERENCE NO.	SHEET NO.
17BP.1.R.59	3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

| LINE & STATION | OFFSET | | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | % MINIMUM REQUIRED SLOPE | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12" | 15" | 18" | 24" | 30" | 36" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | C.S. PIPE 12" | 15" | 18" | 24" | | 30" | | 54" | | R.C. PIPE CLASS III 12" | 15" | 18" | 24" | 30" | 60" | | R.C. PIPE CLASS IV 12" | 15" | 18" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | | 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) A: 0' THRU 5' EACH | B: 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 | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | 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 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. (W.S. FLAT) FRAME W/2 GRATES STD. 840.20 | T.B.D.I. STD. 840.35 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 CY | PIPE REMOVAL LIN.FT. LIN. FT. | REMARKS |
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