COMPUTED BY: Jeremy L. Keaton, PLS DATE: Oct. 11, 2018
CHECKED BY: Scott A. Jones, PE DATE: Oct. 12, 2018

PROJECT REFERENCE NO.	SHEET NO.
I-5823	3D-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NOTE: Invert Elevations 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" & UNDER)

| STATION / SIZE / THICKNESS OR GAUGE | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS IV R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" .064 | 24" .064 | 24" .064 | 24" .064 | 30" .079 | 30" .079 | 36" .079 | 36" .079 | 42" .109 | 42" .109 | 48" .109 | 48" .109 | CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | ENDWALLS CU. YDS. C.S.P. | 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 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | TEMPORARY STEEL PLATE COVER | T.B.D.I. STEEL FRAME WITH TWO GRATES STD. 840.37 | T.B.D.I. STD. 840.35 | G.D.I. FRAME WITH TWO GRATES STD. 840.20 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | DRAINAGE PIPE ELBOWS NO.& SIZE | CONC. COLLARS CL "B" C.Y. STD. 840.72 | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
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