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COMPUTED BY: David Bocker	DATE: 2/20/2015	PROJECT NO.	SHEET NO.
CHECKED BY: J. Matthew Pickens	DATE: 2/20/2015	U-2524BC	3D-1

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)

| STATION | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE | 6" | 12" | 15" | 18" | 24" | 30" | 36" | 42" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE THICKNESS OR GAUGE | 12" .064 | 15" .064 | 18" .064 | 24" .064 | 30" .079 | 36" .079 | 42" .109 | 48" .109 | R.C. PIPE CLASS III | 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS IV | 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | *** R.C. PIPE (CLASS V) | **** RC PIPE CULVERTS, CONTRACTOR DESIGN | ***** RC PIPE CULVERTS, CONTRACTOR DESIGN | 15" WELDED STEEL PIPE, 0.500" THK, GRADE "B", IN SOIL (TRENCHLESS INSTALLATION) | 15" WELDED STEEL PIPE, 0.500" THK, GRADE "B", NOT IN SOIL (TRENCHLESS INSTALLATION) | ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | LIN. FT. 5.0' THRU 10.0' A | LIN. FT. 10.0' AND ABOVE B | *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION DROP INLET | CATCH BASIN | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | MODIFIED CONCRETE FLUME | FRAME WITH TWO GRATES, STD. 840.16 | J.B. STD. 840.31 OR 840.32 | G.D.I. TYPE B STD. 840.18 OR 840.27 | T.B.D.I. STD. 840.35 | ADJUST M.H., EA. | D.I. STD. 840.14 OR STD. 840.15 | D.I. STD. 840.51, STD. 840.52 OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | G.D.I. FRAME WITH TWO GRATES STD. 840.24 | G.D.I. FRAME WITH TWO GRATES STD. 840.20 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.29 | PIPE CLEAN-OUT | FLOWABLE FILL C.Y. | SIDE DRAIN PIPE ELBOWS NO. & SIZE | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | PIPE REMOVAL LIN. FT. | REMARKS |
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