COMPUTED BY:	KAP	DATE:	10/3/2016
CHECKED BY:	DZK	DATE:	10/3/2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-4753	3D-4

RD24821

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 / SIZE / THICKNESS OR GAUGE | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE 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" | 15" R.C. PIPE CLASS V | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 48" WELDED STEEL PIPE, 0.688" THICK, GRADE B IN SOIL | 48" WELDED STEEL PIPE, 0.688" THICK, GRADE B NOT IN SOIL | 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 | 10.0' AND ABOVE B | "TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') | | | | SPECIAL TBJB (SEE DETAIL SHEET 2C-1) | OTCB STD. 840.04 OR 840.05 | | | | T.B.J.B. STD. 840.34 | M.H. FRAME AND COVER STD. 840.54 | 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. TYPE "D" STD. 840.19 OR 840.28 | | T.B.D.I. STD. 840.35 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.29 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | C.S. PIPE ELBOWS 15" | C.S. PIPE ELBOWS 18" | C.S. PIPE ELBOWS 24" | C.S. PIPE ELBOWS 36" | C.S. PIPE ELBOWS 48" | 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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