WS-0025

COMPUTED BY:	MSR	DATE:	1/30/2020
CHECKED BY:	CRS	DATE:	2/3/2020

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-4707	3D-9

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 54 INCHES & OVER)

| LINE & STATION / SIZE / THICKNESS OR GAUGE | OFFSET | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12 | 54 | 60 | 66 | 72 | 78 | 84 | | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | C. S. PIPE 12 | 48 | 54 | 60 | 66 | | R. C. PIPE CLASS III 12 | 48 | 54 | 60 | 66 | | R. C. PIPE CLASS IV 12 | 54 | 60 | 66 | | R. C. PIPE CLASS V 12 | 54 | 60 | 66 | | STRUCTURAL PLATE PIPE 60 | 66 | 72 | | | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | ##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | | ##" x ##" C.S. PIPE ARCH CULVERTS, ##" THICK | ##" x ##" C.S. STRUCTURAL PLATE PIPE ARCH, ## GAUGE | 60" WELDED STEEL PIPE .844" THICK, GRADE ## IN SOIL | #0" WELDED STEEL PIPE ##" THICK, GRADE ## NOT IN SOIL | ##" WELDED STEEL PIPE ##" THICK, GRADE B (UNDER RR) | 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)) 0' THRU 5' EACH | 5' THRU 10' A LIN. FT. | 10' AND ABOVE B 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 | OPEN THROAT C.B. STD. 840.04 OR STD. 840.05 | J.B. STD. 840.31 OR STD. 840.32 | ANGLED VANE GRATES AND FRAMES STD. 840.33 | STEEL FRAME WITH TWO GRATES STD. 840.37 | TEMP STEEL PLATE COVER MASONRY DRAINAGE | ##" SPRING BOX PIPE | | ##" PIPE END SECTION | | CONCRETE COLLARS CL. "B" STD. 840.72 CY | CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY | PIPE REMOVAL LIN. FT. | REMARKS |
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