RAL-WS061

COMPUTED BY:	Harminder Singh	DATE:	March 10, 2016
CHECKED BY:	Max Price	DATE:	March 10, 2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-2525C	3D-19

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, or CAAP) 12 | 48 | 54 | | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | C. S. PIPE 12 | | | | .064 | R. C. PIPE CLASS III 12 | 60 | 66 | 72 | 78 | 84 | | R. C. PIPE CLASS IV 12 | | R. C. PIPE CLASS V 12 | 66 | STRUCTURAL PLATE PIPE 60 | | 54" R.C. PIPE CULVERTS, CONTRACTOR DESIGN | 60" 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 | ###" WELDED STEEL PIPE ###" THICK, GRADE ## IN SOIL | ###" 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 | A 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 | OPEN THROAT C.B. STD. 840.04 OR STD. 840.05 | CONCRETE BRIDGE APPROACH D.I. STD. 840.13 | 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 STD. 840.26 | | BERM DITCH OUTLET STD. 850.10 (PER EACH) | BERM DITCH OUTLET STD. 850.11 (PER EACH) | | ##" SLUICE GATE (##" SIZE SLUICE GATE) | | MODIFIED CONC. FLUME | PREFORMED SCOUR HOLE (PER EACH) | ENERGY DISSIPATION BASIN | | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---