NCCAR-MARTE10

| COMPUTED BY: | C. F. - NCDOT | DATE: | 11-14-16 |
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| CHECKED BY: | E.S.M. - NV5 | DATE: | 3-17-21 |

# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
# DIVISION OF HIGHWAYS

| PROJECT NO. | SHEET NO. |
|---|---|
| R-5014 | 3D-6 |

**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 | C.A.A PIPE 54 0.135" (10 GAUGE) | C.A.A PIPE 60 0.164" (8 GAUGE) | C.A.A PIPE 66 0.135" (10 GAUGE) | C.A.A PIPE 72 0.135" (10 GAUGE) | C.A.A PIPE 78 | R. C. PIPE CLASS III 54 | R. C. PIPE CLASS III 60 | R. C. PIPE CLASS III 66 | R. C. PIPE CLASS III 72 | R. C. PIPE CLASS III 78 | R. C. PIPE CLASS IV 54 | R. C. PIPE CLASS IV 60 | R. C. PIPE CLASS IV 66 | R. C. PIPE CLASS IV 72 | R. C. PIPE CLASS IV 78 | R. C. PIPE CLASS V 54 | R. C. PIPE CLASS V 60 | R. C. PIPE CLASS V 66 | R. C. PIPE CLASS V 72 | R. C. PIPE CLASS V 78 | R. C. PIPE CLASS V 84 | ALUMINUM HEADWALL, 0.150" THICK (CONTRACTOR DESIGNED) | 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' LIN. FT. (A) | 10' AND ABOVE LIN. FT. (B) | 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 | G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27 | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | G.D.I.(W.S. FLAT) FRAME WITH GRATE STD. 840.20 | G.D.I.(W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I.(W.S. SAG) FRAME W/ GRATE STD. 840.22 | G.D.I.(W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I.(N.S. SAG) FRAME W/ GRATE STD. 840.24 | G.D.I.(N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I.(N.S. FLAT) FRAME W/ GRATE STD. 840.29 | G.D.I.(N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | J.B. STD. 840.31 OR STD. 840.32 | T.B.J.B. STD. 840.34 | T.B.D.I. STD. 840.35 | T.B.D.I. FOR STEEL GRATES STD. 840.36 | STEEL FRAME WITH TWO GRATES STD. 840.37 | TEMP STEEL PLATE COVER MASONRY DRAINAGE | M.H. STD. 840.51, STD. 840.52, OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | CONVERT EXISTING D.I. TO J.B. | CONVERT EXISTING J.B. TO D.I. | ADJUST C.B. | ADJUST D.I. | 15" C.S. ELBOW | 18" C.S. ELBOW | BERM DITCH OUTLET STD. 850.10 (PER EACH) | BERM DITCH OUTLET STD. 850.11 (PER EACH) | 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 |
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