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NCCAR-MARTE10

COMPUTED BY:	C. F. - NCDOT	DATE:	11-14-16
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-3

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)

| 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 15 0.105" (12 GAUGE) | C.A.A. PIPE 18 0.105" (12 GAUGE) | C.A.A. PIPE 24 0.135" (10 GAUGE) | C.A.A. PIPE 36 0.135" (10 GAUGE) | C.A.A. PIPE 42 0.135" (10 GAUGE) | C.A.A. PIPE 48 0.164" (8 GAUGE) | DUCTILE IRON PIPE SEALED PIPE SYSTEM SEE SPECIAL PROVISION 12 (CLASS 250) | 15 (CLASS 250) | 18 (CLASS 250) | 24 (CLASS 250) | 30 (CLASS 150) | 36 (CLASS 150) | 42 (CLASS 150) | 48 (CLASS 150) | R. C. PIPE CLASS IV 12 | 15 | 18 | 24 | 30 | 35" x 24" CORRUGATED ALUMINUM PIPE ARCH 0.105" THICK (12 GAUGE) | ALUMINUM HEADWALL, 0.150" THICK (CONTRACTOR DESIGNED) | 12" DUCTILE IRON PIPE | ENDWALLS STD. 826.01 OR STD. 828.11 (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 | 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 T.B.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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