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COMPUTED BY:	BJH	DATE:	03-15-22
CHECKED BY:	REL	DATE:	03-15-22

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
A-0009CA	3D-11

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 % | Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12 | 24 | 30 | 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 | 15 .064 | 18 .064 | 24 .064 | 30 .079 | 36 .079 | 48 .109 | R. C. PIPE CLASS III 12 | 15 | 18 | 24 | 30 | 36 | 48 | R. C. PIPE CLASS IV 12 | 15 | 18 | 24 | 30 | 36 | 48 | 18" PIPE REHABILITAION CIPP LINER | 24" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL | 24" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL | 30" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL | 30" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL | 36" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL | 36" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL | 6" PVC PIPE (SPRING BOX) | 6" DUCTILE IRON PIPE (SPRING BOX) | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY | QUANTITIES FOR DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) A: 0' THRU 5' EACH | B: 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 | D.I. FRAME AND GRATES STD. 840.16 | G.D.I. TYPE "A" STD. 840.17, 840.26, OR 840.45 | G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45 | G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | 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 | SPRING BOX STD. 840.41 | M.H. FRAME AND COVER STD. 840.54 | CONVERT EXISTING C.B. TO D.I. | 15" C.S. ELBOW | 18" C.S. ELBOW | 24" C.S. ELBOW | 30" C.S. ELBOW | 4-SIDED OTCB, SEE DETAIL SHEET 2D-13 | MIN. DEPTH 2GI-A, SEE SHEET DETAIL 2D-1 | JB W/ WEIR WALL, SEE DEITAL SHEET 2D-2 | DRY DET. OUTLET CTL. STR, SEE SHEET 2D-7 | DRY DET. OUTLET CTL. STR, SEE SHEET 2D-11 | BERM DRAINAGE OUTLET STD. 850.10 (SY) | BERM DRAINAGE OUTLET STD. 850.11 (SY) | 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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