R4LD071

COMPUTED BY:	BRC	DATE:	1/26/16
CHECKED BY:	BJH	DATE:	8/22/16

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2915C	3D-1

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 % | Side Drain Pipe (RCP, CSP, CAAP, or HDPE) 15 | 18 | 24 | 30 | 36 | 48 | DO NOT USE RCP | DO NOT USE HDPE | DO NOT USE PVC | C. S. PIPE 15 .064 | 18 .064 | 24 .064 | 30 .079 | 42 .109 | 48 .109 | R. C. PIPE CLASS III 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | R. C. PIPE CLASS IV 12 | 15 | 18 | 24 | 15" WELDED STEEL PIPE 0.28" THICK, GRADE B IN SOIL | 15" WELDED STEEL PIPE 0.28" THICK, GRADE B NOT IN SOIL | 18" WELDED STEEL PIPE 0.31" THICK, GRADE B IN SOIL | 18" WELDED STEEL PIPE 0.31" THICK, GRADE B NOT IN SOIL | 24" WELDED STEEL PIPE 0.38" THICK, GRADE B IN SOIL | 24" WELDED STEEL PIPE 0.38" THICK, GRADE B NOT IN SOIL | 30" WELDED STEEL PIPE 0.47" THICK, GRADE B IN SOIL | 30" WELDED STEEL PIPE 0.47" THICK, GRADE B NOT IN SOIL | 36" WELDED STEEL PIPE 0.53" THICK, GRADE B IN SOIL | 36" WELDED STEEL PIPE 0.53" THICK, GRADE B NOT IN SOIL | 6" PVC PIPE (SPRING BOX) | 6" DUCTILE IRON PIPE (SPRING BOX) | 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) 0' THRU 5' EACH | A 5' THRU 10' LIN. FT. | B 10' AND ABOVE LIN. FT. | CONCRETE TRANSITIONAL SECTION D.I. STD. 852.06 | G.D.I. (SEE DETAIL SHEET 2C-2) | OPEN THROAT C.B. STD. 840.04 OR STD. 840.05 | 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 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. FLAT) FRAME W/ 2 GRATES STD. 840.29 | J.B. STD. 840.31 OR STD. 840.32 | T.B.J.B. STD. 840.34 OR STD. 840.46 | T.B.D.I. STD. 840.35 OR STD. 840.46 | T.B. 2GI SPECIAL DESIGN | T.B. 3GI SPECIAL DESIGN | SPRING BOX STD. 840.41 | 15" PARALLEL PIPE END SECTION STD. 310.02 | CONVERT EXIST. DI TO 3GI SPECIAL DESIGN | CONVERT EXISTING DI. TO J.B. | CONVERT EXISTING J.B. TO D.I. | CONVERT EXISTING T.B.J.B. TO 2GI | CONVERT TB2GI TO TBJB W/ SLAB LID | 15" SIDE DRAIN PIPE ELBOW | 18" SIDE DRAIN PIPE ELBOW | 24" SIDE DRAIN PIPE ELBOW | 36" SIDE DRAIN PIPE ELBOW | 18" C.S. ELBOW | 30" C.S. ELBOW | BERM DITCH OUTLET (PER EACH) | PREFORMED SCOUR HOLE (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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