COMPUTED BY: JCL DATE: 12/30/14
CHECKED BY: PHS DATE: 1/8/15

PROJECT REFERENCE NO.	SHEET NO.
R-3622B	3D-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

SUB-REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

| STATION / SIZE / THICKNESS OR GAUGE | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 4" | 6" | 8" | 12" | 15" | 18" | 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" | 15" | 18" | 24" | 30" | 36" | 42" | R.C. PIPE (CLASS III) 15" | 18" | 24" | 30" | 36" | 42" | WELDED STEEL PIPE 36" | WELDED STEEL PIPE 0.5" | R.C. PIPE (CLASS V) 36" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") PER EACH (0' THRU 5.0') | LIN. *FT. A 5.0' THRU 10.0' | LIN. *FT. B 10.0' AND ABOVE | T.B.D.I. STD. 840.35 | SPECIAL T.B.D.I. (SEE SHEET 2C-1 FOR DETAIL) | SPECIAL T.B.D.I. "A" STD. 840.17 OR STD. 840.26 | 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.X. 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/2 GRATES STD. 840.24 | G.D.I. (N.S. SAG) FRAME W/GRATE STD. 840.29 | G.D.I. (N.S. FLAT) FRAME W/2 GRATES STD. 840.29 | G.D.I. (N.S.) WITH GRATE FOR DRIVEWAY STD. 840.30 | J.B. STD. 840.31 OR 840.32 | T.B.J.B STD. 840.34 | SPRING BOX STD. 840.41 | M.H. FRAME AND COVER STD. 840.54 | 18" CS SLOTTED DRAIN -SEE SHEET 2C-5 FOR DETAIL | 8"X8"X15" HDPE TEE | 15"X15"X15" HDPE TEE | ##" DRAINAGE PIPE ELBOW | 12" C.S. ELBOW | 15" C.S. ELBOW | 18" C.S. ELBOW | 24" C.S. ELBOW | 30" C.S. ELBOW | 36" C.S. ELBOW | BERM DITCH OUTLET STD. 850.10 OR 850.11 (SY) | SPECIAL BERM DITCH OUTLET (SEE SHEET 2C-2) | CONC. COLLARS CL. "B" C.Y. (SEE SHEET 2C-3) | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
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