DocuSign Envelope ID: 730748B6-DDBF-4704-9D99-3E2A7BDB69BF

TGSZJR-LAPTOP

| | | | |
|---|---|---|---|
| COMPUTED BY: | Zachary Richard, PE | DATE: | 10/12/2022 |
| CHECKED BY: | David Petty, PE | DATE: | 11/17/2022 |

# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
# DIVISION OF HIGHWAYS

| PROJECT NO. | SHEET NO. |
|---|---|
| A-0009CC | 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 % | Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 15 | 18 | 24 | 30 | 36 | 42 | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C. S. PIPE .064 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | R. C. PIPE CLASS III 18 | 24 | 30 | 36 | 42 | 48 | R. C. PIPE CLASS IV 15 | 18 | 24 | 30 | 36 | 42 | 36" CAAP, 0.075" THICK | 42" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL | 42" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL | 24" PIPE REHABILITATION CIPP LINER | 36" PIPE REHABILITATION CIPP LINER | 42" PIPE REHABILITATION CIPP LINER | 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. | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E | F | G | 4-SIDED OTCB, SEE DETAIL SHEET 2D-5 | 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, 840.26, OR 840.45 | G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45 | 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 | J.B. STD. 840.31 OR STD. 840.32 | T.B.J.B. STD. 840.34 | T.B.D.I. STD. 840.35 | 6" PVC PIPE (SPRING BOX) | SPRING BOX STD. 840.41 | M.H. FRAME AND COVER STD. 840.54 | PRECAST 4' DIA MH STD 840.52 | T.B. G.D.I TYPE "A" SEE SHEET 2D-2 | MIN DEPTH TYPE A SPECIAL DSN SEE SHEET 2D-1 | 15" C.S. ELBOW, 0.064" THICK | 18" C.S. ELBOW, 0.064" THICK | 24" C.S. ELBOW, 0.064" THICK | 30" C.S. ELBOW, 0.064" THICK | 36" C.S. ELBOW, 0.064" THICK | 42" C.S. ELBOW, 0.064" THICK | 48" C.S. ELBOW, 0.064" THICK | 15" ELBOW | 18" ELBOW | 24" ELBOW | 36" ELBOW | BERM DRAINAGE OUTLET STD. 850.10 (SY) | BERM DRAINAGE OUTLET STD. 850.11 (SY) | BERM DRAINAGE OUTLET 36" DSN, SHT 2D-3 (SY) | BERM DRAINAGE OUTLET 42" DSN, SHT 2D-4 (SY) | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---