COMPUTED BY:
 MJB
 DATE:
 1/16/2023

 CHECKED BY:
 ASB
 DATE:
 11/7/2023

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO. R-2577A 3D-2

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" & UNDER)

| | | | | | | | | | | | | ло л | | л л | | | | | | ДД Д | | | | <u> </u> | | | | | | | | | | | \top | | Τ | | | | |
|---|----------------------------|---|------------------|------------|---|-------------|---|----------------------------------|----------------------------------|---------|-----------|--------------------|---------|----------|---|---------|-----------------------|----------------|--|-------------------|----------------|--------|--|--------------------|----------------------|-------------------------------|-------------------------------|---|--|--|--|------------------------------------|---|--|---|-------------------------------|--------------------------------------|-------------------------|--|----------------------------|-----------------------------------|
| LINE & STATION | | CTURE NO. | | | | (F | SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, PP or PVC) | | | | C.S. PIPE | | | | R.C. PIPE CLASS III | | R.C. PIPE CLASS IV | | PIPE AS NOTED | | ENDW STD. 8 | 338.01 | QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY UANTITY SHALL BE COL. | | A ((: 2 X COE: D) | FRAME, GRATES, AND HOOD | CRETE TRANSITIONAL SECTION | | | | | | | | | | | | C.B. N.D.I. | NARR | CH BASIN ROW DROP |
| | | STRU | ATION | EVATION | EVATION | UIRED SLOPE | | | | | | | | | STD. 838.11 (UNLESS NOTED OTHERWISE) | | | | | | LIN. FT. | | _ | STANDARD 840.03 | 103 | | | 840.20 | 840.24 D. 840.29 | | | | | | | | D.I. G.D.I. G.D.I.(N.S J.B. | DRO GRATED (NARF) | INLET OP INLET D DROP INLET ROW SLOT) CTION BOX | | |
| SIZE | OFFS | | TOP ELEV | INVERT ELF | INVERT ELI | 15" | 18" 24" 30" | 3" 24" 30" | S PVC | 15" 18' | 24" 30" | 0" 36" 42" 48" 15' | 48" 15" | 18" 24" | 30" 36" 42" | 48" 15" | 18" 24" 30" 36 | 24" 24 | 4" 30" 30" | 48" 48' | CU. YA | ARDS | A | | | | | 16 | 10.26 | 10.28 RATES STD. STD. 840.22 | CATES STD. GRATES. ST | | 840.37 | 0.54 | | | STD. 840.71 | | M.H. T.B.D.I. | M <i>A</i> TRAFF DRO | ANHOLE FIC BEARING OP INLET |
| THICKNESS OR GAUGE | | ROM | 2 | | i iii iii ii | WII % | | DO NOT USE RCP DO NOT USE CSP | NOT USE CAAP USE HDPE. PP. OF | .064 | .064 | .079 | .109 | | | | | W.S. (IN SOIL) | S. (NOT IN SOIL) W.S. (IN SOIL) S. (NOT IN SOIL) | SS W.S. (IN SOIL) | | .S.P. | 4RU 5.0') | ш | OR STD. 840.02 | TYPE OF GRATE | | OR STD. 840.15 GRATE STD. 840 | STD. 840.17 OR 84 STD. 840.18 OR 84 | STD. 840.19 OR 84 TH TWO FLAT GF TH TWO GRATES | ME WITH TWO GF WITH TWO FLAT | STD. 840.41 | 14 0.35 IND FRAME STD. 840.37 | D COVER STD. 84 | NINAGE OUTLET . 840.04 OR 840.05 | - (CY) NS NO. & SIZE | PIPE PLUG, C.Y. | LIN. FT. | T.B.J.B. | JUNC | FIC BEARING CTION BOX |
| OK GAUGE | | ш. | | | | | | ăă | DONOD | | | | | | | | | Trenchless | nchles nchles | Trenchless | c c | ວ | PER EACH (0' TH 5.0' THRU 10.0' | | C.B. STD. 840.01 | E F G | DROP INLET | CALCH BASIN D.I. STD. 840.14 (D.I. FRAME AND | G.D.I. TYPE "A" (| G.D.I. TYPE "D" (G.D.I. FRAME WI | G.D.I. (N.S.) FRA G.D.I. (N.S.) FR. 1 | SPRING BOX, ST J.B. STD. 840.31 | TBJB STD. 840.34 T.B.D.I. STD. 840.35 STEEL GRATE AND | M.H. FRAME ANI ADJUST MH ADJUST CB | BERM DRAINAG OTCB STD. 840. | FLOWABLE FILL C.S. PIPE ELBOV | CONC. & BRICK | PIPE REMOVAL | | REMARKS | |
| SHEET 5 (cont.) | -28 LT | 561 | 919.4 | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | | | | |
| - Y1B- 11+52.55 - Y1B- 11+52.55 - Y1B- 11+26.10 | -28 LT -28 LT -64 LT | 561 | 508 508 | | 914.3 0.6 | 6% 5% | | | | | | | 28 | 32 | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| - Y1B- 11+20.00 - Y1B- 11+20.00 | -33 LT | 508 508 | 920.1 509 | + | 911.0 0.9 | 9% | | | | | | | | 32 | | | | | | | | | 1 1. | | 1 | 1 | | | | | | | | | | | | | | | |
| - Y1B- 11+20.00 - Y1B- 11+20.00 | 0 RT | 509 509 | 921.5 | | 904.1 3.5 | | | | | 5 | 6 | | | | | | | | | | | | 1 5.0 | 1.8 | | | 1 | 1 1 | | | | | | | | 2 @ 1 | 0 | | | | |
| - Y1B- 11+24.50 | 56 RT | 560 | 908.0 | | | | | | | 5 | 0 | | | | | | | | | | | | 1 3.6 | i | | | | | | | | 1 | | 1 | | 2 @ 1 | 8 | | | | |
| - Y1B- 11+24.50 - L- 6+50.00 | 56 RT -68 LT | 560 510 | 552 414 | | 899.3 0.9 882.5 1.7 | 9% 7% | | | | 25 | 6 | | | 16 | | | | + | | | | | | _ | + | | ++ | + | | | | | | | | 2 @ 1 | 8 | + | | | |
| - L- 13+00.00 | 53 RT | 511 | 919.6 | | | 40/ | | | | | | | | 404 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | | 1 | | |
| - L- 13+00.00 - L- 13+00.00 | -14 LT | 511 512 | 525 920.9 | 915.4 | 913.9 0.4 | 4% | | | | | | | | 124 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | | | | |
| - L- 13+00.00 - L- 12+25.00 | -14 LT | 512 513 | 513 919.7 | + | 915.4 0.4 | 4% | | | | | | | | 76 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | | | | |
| - L- 12+25.00 - L- 11+75.00 | -14 LT | 513 514 | | 915.4 | 914.8 0.4 | 4% | | | | | | | | 48 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | + | | | |
| - L- 11+75.00 | -14 LT | 514 | 525 | 914.8 | 913.9 0.4 | 4% | | | | | | | | 68 | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | | |
| - L- 11+75.00 - L- 11+75.00 | 53 RT | 525 525 | 918.2 524 | 913.9 | 906.4 0.5 | 5% | | | | | | | | 124 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | \pm | | | |
| - L- 10+50.00 - Y1A- 16+00.00 | 51 RT | 524 515 | 916.2 916.6 | _ | | | | | | | | | | | | | | | | | | | 1 4.9 1 5.0 | _ | 1 | 1 | 1 | 1 1 | | | | | | | | _ | <u> </u> | | | | |
| - Y1A- 16+00.00 | -1 LT | 515 | 543 | 904.1 | 900.5 0.5 | 5% | | | | | | | | 56 | | | | | | | | | | 2.0 | | | | | | | | | | | | | | | | | |
| - L- 8+50.00 - L- 8+50.00 | -41 LT | 531 531 | 913.2 516 | 908.9 | 908.0 0.4 | 4% | | | | | | | | 224 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | +++ | + | + | + | | | |
| - Y1A- 16+45.00 | -1 LT | 516 516 | 917.0 | | 0046 04 | 40/ | | | | | | | | 44 | | | | | | | | | 1 4.0 |) | | | 1 | 1 1 | | | | | | | | | | | | | |
| - Y1A- 16+45.00 - Y1A- 13+50.00 | -1 L1 28 RT | 516 | 922.3 | + | 904.6 0.4 | 4% | | | | | | | | 44 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | | | | |
| - Y1A- 13+50.00 - Y1A- 14+56.00 | 28 RT | 519 523 | 523 918.4 | 918.1 | 914.2 0.5 | 5% | | + - | | + | | | | 96 | | | | | | | | | 1 | | 1 | 1 | 1 | | | | | | | | + | | | | | | |
| - Y1A- 14+56.00 | 27 RT | 523 | 518 | 913.7 | 910.7 0.5 | 5% | | | | | | | | 104 | | | | | | | | | ' | | | | | | | | | | | | | | | | | | |
| - Y1A- 15+70.00 - Y1A- 15+70.00 | 32 RT 32 RT | 518 518 | 915.5 517 | _ | 908.4 0.5 | 5% | | | | ++ | | | | 28 | | | | | | | | | 1 | - | 1 | 1 | | | | | | | | | +++ | | - | | | | |
| - Y1A- 16+30.00 | 69 RT | 558 | 915.8 | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | ### | | | 1 | | | |
| - Y1A- 16+30.00 - Y1A- 15+96.00 | 69 RT 42 RT | 558 517 | 517 915.6 | _ | 910.7 0.2 | 2% | | | | | | | | 44 | | | | | | | | | 1 2.2 | ! | _ 1 | 1 | | | | | | | | | | | | <u> </u> | | | |
| - Y1A- 15+96.00 | 42 RT | + | 515 915.8 | | 904.1 0.5 | 5% | | | | | | | | 44 | | | | | | | | | | | | | 4 | | | | | | | | | | | 1 | | | |
| - L- 9+55.00 - L- 9+55.00 | 12 RT | 521 521 | 522 | 910.1 | 909.8 2.5 | 5% | | | | | | | | 92 | | | | | | | | | 1 0.6 | | | | | 1 1 | | | | | | | | | | | | | |
| - L- 10+50.00 - L- 10+50.00 | 12 RT 12 RT | 522 522 | 917.5 524 | | 906.4 3.2 | 2% | | | | | | | | 36 | | | | | | | | | 1 2.9 | | | | 1 | 1 1 | | | | | | | | | | | | | |
| - L- 8+50.00 | 41 RT | 526 | 913.2 | | | | | | | | | | | 000 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | ### | | | | | | |
| - L- 8+50.00 - L- 6+75.00 | 41 RT 41 RT | 526 527 | 910.3 | | 906.4 0.4 | 4% | | | | | | | | 200 | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | <u> </u> | <u></u> | <u> </u> | | |
| - L- 6+75.00 | 41 RT 41 RT | 527 | 533 908.0 | 906.1 | 903.7 0.4 | 4% | | | | \prod | | | | 144 | | | | | | | | | 1 | | 1 | | | | | | | | | | + | | | | | | |
| - L- 5+30.00 - L- 5+30.00 | 41 RT | 533 533 | | | 902.4 0.4 | 4% | | | | | | | | 80 | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | |
| - L- 4+50.00 - L- 4+50.00 | 41 RT | 528 528 | 906.6 | | 878.8 1.7 | | | | | 7 | 2 | | | | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | + | 2 @ 1 | 8 | | | | |
| 3D-2 SHEET TOTALS | 3 +1 11 | 520 | - 100 | 302.4 | 010.0 1.7 | 1 /0 | | | | 38 | | | 28 | 1480 232 | | | | | | | | | 24 2 | 0.2 | 4.3 18 | 1 5 1 | 2 5 | 5 5 | <u> </u> | | | 1 | | 1 | 1 | 6 @ 1 | 8 | <u> </u> | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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