COMPUTED BY: JIMMY GOODNIGHT, PE DATE: 01/23/2015
COMPUTED BY: JOSH G. DALTON, PE DATE: 01/23/2015



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

# 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 |
|---|---|---|---|---|---|---|---|
| 16+00 -L- | CL | 401 | | | 222.0 | 221.8 | |
| 38+96 -L- | CL | 501 | | | | | |
| 28+28 -Y- | CL | 601 | | | | | |
| 29+94-Y- | RT | 602 | | | | | |
| 30+60-Y- | RT | 603 | | | | | |
| 34+00-Y- | CL | 604 | | | 217.6 | 217.3 | |
| TOTALS | | | | | | | |

| STATION | DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | C.S. PIPE 12" .064 | 15" .064 | 18" .064 | 24" .064 | 30" .079 | 36" .079 | 42" .109 | 48" .109 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16+00 -L- | | | | | | | | | | | | | | | | | | | | |
| 38+96 -L- | | | | | | | | | | | | | | | | | | | | |
| 28+28 -Y- | | | | | | | | | | | | | | | | | | | | |
| 29+94-Y- | | | | | | | | | | | | | | | | | | | | |
| 30+60-Y- | | | | | | | | | | | | | | | | | | | | |
| 34+00-Y- | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | | | | | | | | | | | | | |

| STATION | R.C. PIPE CLASS III 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS IV 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16+00 -L- | | | | | | | | | | | 60' | | | | | |
| 38+96 -L- | | | | | | | | | | | | | | | | |
| 28+28 -Y- | | | | | | | | | | | | | | | | |
| 29+94-Y- | | | | | | | | | | | | | | | | |
| 30+60-Y- | | | | | | | | | | | | | | | | |
| 34+00-Y- | | | | 92' | | | | | | | | | | | | |
| TOTALS | | | | 92' | | | | | | | 60' | | | | | |

| STATION | ** " R.C. PIPE (CLASS V) | **** RC PIPE CULVERTS, CONTRACTOR DESIGN | **** RC PIPE CULVERTS, CONTRACTOR DESIGN | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A 5.0' THRU 10.0' | B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION DROP INLET | CATCH BASIN | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. FRAME WITH GRATE STD. 840.20 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | T.B.J.B. STD. 840.34 | M.H. FRAME AND COVER STD. 840.54 | T.B.D.I. STD. 840.35 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16+00 -L- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38+96 -L- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28+28 -Y- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29+94-Y- | | | | | 40' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30+60-Y- | | | | | 40' | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34+00-Y- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | 80' | | | | | | | | | | | | | | | | | | | | | | | | | |

| STATION | DRAINAGE PIPE ELBOWS NO. & SIZE | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | FLOWABLE FILL MATERIAL CUBIC YDS. | PIPE REMOVAL LIN. FT. | REMARKS |
|---|---|---|---|---|---|
| 16+00 -L- | | | | | |
| 38+96 -L- | | | | 80' | REMOVE 80 LF OF EXISTING 15" RCP |
| 28+28 -Y- | | | 2.75 | | FILL EXIST 18" WTH FLOWABLE FILL MATERIAL |
| 29+94-Y- | | | | | |
| 30+60-Y- | | | | | |
| 34+00-Y- | | | | | |
| TOTALS | | | 2.75 SAY 3CY | 80' | |

ABBREVIATIONS

| | |
|---|---|
| C.B. | CATCH BASIN |
| N.D.I. | NARROW DROP INLET |
| D.I. | DROP INLET |
| G.D.I. | GRATED DROP INLET |
| G.D.I.(N.S.) | (NARROW SLOT) |
| J.B. | JUNCTION BOX |
| M.H. | MANHOLE |
| T.B.D.I. | TRAFFIC BEARING DROP INLET |
| T.B.J.B. | TRAFFIC BEARING JUNCTION BOX |

## PARCEL INDEX SUMMARY

| PARCEL NUMBER | SHEET NUMBER | PROPERTY OWNER NAME |
|---|---|---|
| 1 | 4 | DUNCAN, B. AND SYLVIA; PARKER, DAVIS K. AND ELLEN K. PARKER (NO CLAIM) |
| 2 | 4 | MALCOLM D. AND JUDY M. GILLIS |
| 2a | 4 | MALCOLM D. AND JUDY M. GILLIS |
| 4 | 4 | GALATIA PRESBYTERIAN CHURCH INC. (NO CLAIM) |
| 5 | 4 | WILLIAM K. GILLIS |
| 2a | 5 | MALCOLM D. AND JUDY M. GILLIS |
| 2a | 5 | MD GILLIS C/O JUDY GILLIS |
| 4 | 5 | GALATIA PRESBYTERIAN CHURCH INC. |
| 2a | 6 | MALCOLM D. AND JUDY M. GILLIS |
| 3 | 6 | GILLIS, J McN |
| 5 | 6 | WILLIAM K. GILLIS |
| 6 | 6 | MALCOLM D. AND JUDY M. GILLIS |
| 6a | 6 | MALCOLM D. AND JUDY M. GILLIS |
| 7 | 6 | JOHN D. GILLIS |
| 8 | 6 | WILLIAM K. AND GRACE W. GILLIS |
| 7 | 7 | JOHN D. GILLIS |
| 8 | 7 | WILLIAM K. AND GRACE W. GILLIS |
| 6a | 8 | MALCOLM D. AND JUDY M. GILLIS |

## SUMMARY OF EARTHWORK

| STATION | STATION | UNCL. EXCAV. | EMBANK. +% | BORROW | WASTE |
|---|---|---|---|---|---|
| 10+85 -L- | 19+21 -L- | 139 | 1019 | 880 | 0 |
| | | | | | |
| 28+00 -Y- | 41+60 -Y- | 2382 | 887 | 0 | 1495 |
| 41+60 -Y- | 45+50 -Y- | 150 | 0 | 0 | 150 |
| 13+97 -Y1- | 22+68 -Y1- | 1355 | 160 | 0 | 1195 |
| 22+68 -Y1- | 29+00 -Y1- | 1700 | 0 | 0 | 1700 |
| TOTALS: | | 5726 | 2066 | 880 | 4540 |
| WASTE IN LIEU OF BORROW: | | | | -880 | -880 |
| TOTALS: | | 5726 | 2066 | 0 | 3660 |
| SAY: | | 5800 | | 0 | |

4/04/06
1/23/2015
W5206Z_rdy_psh_03_summary.dgn