

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------------|----------|------------------|-----------|
| 116 | 06-00104-02-WR | McHENRY | 38 | 15 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS | FED. AID PROJECT | |

STORM SEWER STRUCTURE TABLE:

| STR. NO. | STATION | OFFSET | STRUCTURE TYPE/SIZE | | | | F&G | INVERTS | | | | RIM ELEV. |
|----------|-----------|----------|---------------------|----|----------|-------|---------|---------|--------|--------|--------|-----------|
| | | | MH | CB | IN | OTHER | | N | S | E | W | |
| 1 | 137+58.80 | 31.40 RT | | | A | | 24" | | | | | 929.85 |
| 2 | 137+46.50 | 41.40 RT | | | A | | 24" | 925.34 | | 925.34 | | 929.60 |
| 3 | 138+85.30 | 41.60 RT | A | | | | TY 1 CL | 924.73 | | 924.73 | 924.73 | 931.50 |
| 4 | 138+85.30 | 16.50 RT | | | A | | 24" | | 924.83 | | | 929.48 |
| 5 | 140+42.30 | 16.50 RT | | | A | | 24" | | | 924.03 | | 928.38 |
| 6 | 140+42.30 | 16.50 LT | | | A | | 24" | | | 924.19 | | 928.38 |
| 7 | 140+52.10 | 43.60 RT | A | | | | TY 1 OL | 922.25 | | 922.25 | 923.90 | 929.40 |
| 8 | 140+52.10 | 16.50 RT | | | A | | 24" | 923.99 | 923.67 | | 923.99 | 928.37 |
| 9 | 140+52.10 | 16.50 LT | | | A | | 24" | | 924.14 | | 924.14 | 928.37 |
| 10 | 141+27.50 | 46.50 RT | A | | | | TY 1 CL | 922.01 | | | 922.01 | 929.70 |
| 10A | 141+36.00 | 32.50 RT | A | | | | TY 1 CL | | 921.95 | 921.95 | 924.79 | 929.50 |
| 11 | 141+12.80 | 30.60 RT | | | A | | 24" | | | 924.90 | | 928.03 |
| 12 | 142+75.60 | 38.50 RT | A | | | | TY 1 OL | 924.41 | | 921.53 | 921.53 | 926.75 |
| 13 | 142+75.60 | 16.50 RT | | | A | | 24" | | 924.50 | | | 927.66 |
| 14 | 142+75.60 | 16.50 LT | | | A | | 24" | | | 922.98 | | 927.07 |
| 15 | 143+67.60 | 30.50 LT | A | | | | TY 1 CL | 921.81 | 921.81 | 921.81 | 922.57 | 924.75 |
| 16 | 143+80.70 | 38.60 RT | A | | | | TY 1 CL | 923.21 | | 921.19 | 921.19 | 928.30 |
| 17 | 143+80.70 | 16.50 RT | | | A | | 24" | | 923.30 | | | 926.54 |
| 18 | 144+45.60 | 38.50 RT | A | | | | TY 1 CL | 921.21 | | 920.86 | 920.86 | 927.40 |
| 19 | 144+45.60 | 16.50 RT | | | A | | 24" | | 921.30 | | | 926.21 |
| 20 | 144+45.60 | 16.50 LT | | | A | | 24" | | | 922.15 | | 925.71 |
| 21 | 145+10.60 | 38.50 RT | A | | | | TY 1 CL | 922.21 | | 920.53 | 920.53 | 926.90 |
| 22 | 145+10.60 | 16.50 RT | | | A | | 24" | | 922.30 | | | 925.95 |
| 23 | 146+30.70 | 34.00 RT | A | | | | TY 1 CL | 921.62 | | 919.33 | 919.33 | 926.10 |
| 24 | 146+30.70 | 16.50 RT | | | A | | 24" | 921.69 | 921.69 | | | 925.47 |
| 25 | 146+30.70 | 16.50 LT | | | A | | 24" | | 921.84 | | | 925.47 |
| 26 | 148+25.50 | 36.15 RT | A | | | | TY 1 CL | | | 913.45 | 914.45 | 921.80 |
| 27 | 148+25.50 | 16.50 RT | | | A | | 24" | 914.58 | | | | 921.05 |
| 28 | 148+46.30 | 44.10 LT | A | | | | TY 1 CL | | 914.27 | 914.27 | 915.30 | 919.40 |
| 29 | 148+52.60 | 26.30 LT | | | A | | 24" | 914.35 | 914.35 | | | 919.26 |
| 30 | 150+20.30 | 38.40 RT | A | | | | TY 1 CL | 910.71 | | 909.05 | 909.55 | 915.90 |
| 31 | 150+20.30 | 16.50 RT | | | A | | 24" | | 910.80 | | | 914.68 |
| 32 | 151+70.80 | 23.50 RT | | | A | | 24" | | | 908.83 | | 912.99 |
| 33 | 151+70.44 | 20.50 LT | | | A | | 24" | | | 903.40 | | 912.99 |
| 34 | 151+81.20 | 24.30 RT | | | A | | 24" | | 908.78 | | 908.78 | 912.98 |
| 35 | 151+79.44 | 20.50 LT | | | A | | 24" | | | 903.35 | 903.35 | 912.98 |
| 36 | 151+87.10 | 37.90 RT | A | | | | TY 1 CL | 908.71 | 908.15 | | 908.60 | 913.40 |
| 36A | 151+96.70 | 54.70 RT | | | FES | | 24" | 908.00 | | | | 908.00 |
| 37 | 154+13.20 | 28.10 LT | | | A | | 24" | | | 909.16 | 909.21 | 914.01 |
| 38 | 154+32.30 | 31.50 RT | | | A | | 24" | | 910.63 | 910.63 | | 913.50 |
| 39 | 154+41.20 | 28.90 RT | | | A | | 24" | | | 910.67 | | 913.60 |
| 40 | 159+12.40 | 16.50 RT | | | A | | 24" | 909.10 | | | | 914.89 |
| 41 | 159+72.60 | 28.90 LT | | | A | | TY 1 OL | 903.95 | | 908.56 | | 915.15 |
| 42 | 159+72.60 | 78.50 LT | | | DRY WELL | | 24" | 902.10 | 903.50 | | | 908.00 |
| 42A | 159+72.60 | 92.50 LT | | | FES | | 24" | 902.00 | | | | 903.00 |
| 43 | 160+17.10 | 16.50 RT | | | A | | 24" | 910.63 | | 910.63 | | 913.80 |
| 44 | 160+17.10 | 16.50 LT | | | A | | 24" | | 910.33 | 909.30 | 909.00 | 913.80 |
| 45 | 160+02.80 | 16.50 RT | | | A | | 24" | | | | 910.77 | 913.78 |
| 46 | 160+32.10 | 17.40 LT | | | A | | 24" | | | | 909.44 | 913.78 |

STORM SEWER PIPE TABLE:

| PIPE NO. | FROM STR. | TO STR. | DESCRIPTION | DIA. (IN) | L (FT) | SLOPE (%) | TBF Cu Yd |
|----------|-----------|----------|------------------|-----------|--------|-----------|-----------|
| S1 | 1 | 2 | CLASS A, TYPE II | 12 | 16 | 0.440 | 0.8 |
| S2 | 2 | 3 | WM REQUIREMENTS | 12 | 138 | 0.440 | 10.0 |
| S3 | 3 | 7 | CLASS A, TYPE II | 12 | 166 | 0.499 | 33.0 |
| S4 | 4 | 3 | CLASS A, TYPE II | 12 | 22 | 0.451 | 2.8 |
| S5 | 5 | 8 | CLASS A, TYPE II | 12 | 10 | 0.440 | 1.7 |
| S6 | 6 | 9 | CLASS A, TYPE II | 12 | 10 | 0.500 | 1.6 |
| S7 | 7 | 10 | CLASS A, TYPE II | 15 | 75 | 0.320 | 21.5 |
| S8 | 8 | 7 | CLASS A, TYPE II | 12 | 26 | 4.120 | 3.0 |
| S9 | 9 | 8 | CLASS A, TYPE II | 12 | 36 | 0.440 | 6.3 |
| S10 | 10 | 12 | WM REQUIREMENTS | 15 | 132 | 0.320 | 11.5 |
| S10A | 10 | 10A | CLASS A, TYPE II | 15 | 18 | 0.320 | - |
| S11 | 11 | 10 | CLASS A, TYPE II | 12 | 26 | 0.440 | 0.5 |
| S12 | 12 | 16 | CLASS A, TYPE II | 15 | 105 | 0.320 | 6.4 |
| S13 | 13 | 12 | CLASS A, TYPE I | 12 | 20 | 0.443 | 4.1 |
| S14 | 14 | 15 | CLASS A, TYPE I | 12 | 94 | 0.440 | 23.2 |
| S16 | 16 | 18 | CLASS A, TYPE II | 15 | 65 | 0.507 | 4.8 |
| S17 | 17 | 16 | CLASS A, TYPE II | 12 | 20 | 0.443 | 3.7 |
| S18 | 18 | 21 | CLASS A, TYPE II | 15 | 65 | 0.508 | 4.4 |
| S19 | 19 | 18 | CLASS A, TYPE II | 12 | 20 | 0.442 | 3.7 |
| S20 | 20 | 15 | CLASS A, TYPE I | 12 | 78 | 0.440 | 10.3 |
| S21 | 21 | 23 | CLASS A, TYPE II | 15 | 120 | 1.000 | 7.9 |
| S22 | 22 | 21 | CLASS A, TYPE II | 12 | 20 | 0.441 | 3.9 |
| S23 | 23 | 26 | CLASS A, TYPE II | 15 | 195 | 2.503 | 21.4 |
| S24 | 24 | 23 | CLASS A, TYPE II | 12 | 15 | 0.442 | 4.7 |
| S25 | 25 | 24 | CLASS A, TYPE II | 12 | 36 | 0.442 | 10.8 |
| S26 | 26 | 30 | CLASS A, TYPE II | 18 | 195 | 2.000 | - |
| S27 | 27 | 29 | WM REQUIREMENTS | 12 | 52 | 0.442 | 16.6 |
| S28 | 28 | EXISTING | CLASS A, TYPE II | 12 | 30 | 0.466 | 9.6 |
| S29 | 29 | 28 | WM REQUIREMENTS | 12 | 18 | 0.444 | 5.0 |
| S30 | 30 | 36 | CLASS A, TYPE II | 18 | 172 | 0.260 | 3.7 |
| S31 | 31 | 30 | CLASS A, TYPE II | 12 | 20 | 0.443 | 3.2 |
| S32 | 32 | 34 | CLASS A, TYPE II | 12 | 10 | 0.449 | 3.2 |
| S33 | 33 | 35 | CLASS A, TYPE II | 12 | 12 | 0.440 | 13.5 |
| S34 | 34 | 36 | CLASS A, TYPE II | 12 | 17 | 0.440 | 2.2 |
| S35 | 35 | EXISTING | CLASS A, TYPE II | 12 | 11 | 0.440 | 11.3 |
| S36 | 36 | 36A | CLASS A, TYPE I | 18 | 15 | 1.000 | - |
| S38 | 38 | EXISTING | CLASS A, TYPE II | 12 | 13 | 0.440 | 1.7 |
| S39 | 39 | 38 | CLASS A, TYPE I | 12 | 10 | 0.440 | 1.7 |
| S41 | 41 | 42 | CLASS A, TYPE II | 12 | 45 | 1.000 | 2.0 |
| S42 | 42 | 42A | CLASS A, TYPE I | 12 | 10 | 1.000 | 4.8 |
| S43 | 43 | 44 | CLASS A, TYPE II | 12 | 30 | 1.000 | - |
| S44 | 44 | 41 | WM REQUIREMENTS | 12 | 44 | 1.000 | 2.6 |
| S45 | 45 | 43 | CLASS A, TYPE I | 12 | 14 | 1.000 | 2.0 |
| S46 | 44 | 46 | CLASS A, TYPE II | 12 | 15 | 1.000 | 2.0 |

| REVISIONS | |
|-----------|------|
| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 116 (EAST CRYSTAL LAKE AVE)

DRAINAGE PLAN

SCALE: NONE
DATE 10/30/08
DRAWN BY LP
CHECKED BY JIP