

|                                |         |          |                  |           |
|--------------------------------|---------|----------|------------------|-----------|
| F.A. ROUTE NO.                 | SECTION | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 866                            | *       | LAKE     | 554              | 127       |
| FED. ROAD DIST. NO.            |         | ILLINOIS | FED. AID PROJECT |           |
| *(L-2[W,R];6,6A & 6 EXT) WRS-1 |         |          |                  |           |

STA 475+00 TO STA 481+00

| STRUCT NO | LOCATION  |             | STRUCTURE TYPE | FRAME & LID OR GRATE | RIM ELEV | INVERT ELEVATION |       |        |        |
|-----------|-----------|-------------|----------------|----------------------|----------|------------------|-------|--------|--------|
|           | STATION   | OFFSET      |                |                      |          | NORTH            | SOUTH | EAST   | WEST   |
| 770       | 478+68.88 | 31.00 FT RT | FES, 24 IN     | HWY STD 542311       |          |                  |       |        | 808.44 |
| 771       | 478+68.88 | 31.80 FT LT | FES, 24 IN     | HWY STD 542311       |          |                  |       | 807.95 |        |

STA 481+00 TO STA 487+00

| STRUCT NO | LOCATION  |             | STRUCTURE TYPE     | FRAME & LID OR GRATE | RIM ELEV | INVERT ELEVATION |        |        |        |
|-----------|-----------|-------------|--------------------|----------------------|----------|------------------|--------|--------|--------|
|           | STATION   | OFFSET      |                    |                      |          | NORTH            | SOUTH  | EAST   | WEST   |
| 773       | 481+25.00 | 25.00 FT LT | CB, TY A, 4 FT DIA | TY 8 GR              | 813.26   | 811.10           |        |        |        |
| 774       | 482+28.00 | 30.00 FT LT | FES, 12 IN         |                      |          |                  | 810.58 |        |        |
| 775       | 485+29.70 | 29.00 FT LT | FES, 24 IN         | HWY STD 542311       |          |                  |        | 805.96 |        |
| 776       | 485+29.70 | 29.40 FT RT | FES, 24 IN         | HWY STD 542311       |          |                  |        |        | 806.19 |

STA 487+00 TO STA 493+00

| STRUCT NO | LOCATION  |             | STRUCTURE TYPE | FRAME & LID OR GRATE | RIM ELEV | INVERT ELEVATION |        |      |      |
|-----------|-----------|-------------|----------------|----------------------|----------|------------------|--------|------|------|
|           | STATION   | OFFSET      |                |                      |          | NORTH            | SOUTH  | EAST | WEST |
| 925       | 492+35.00 | 25.75 FT RT | CB, TY C       | TY 8 GR              | 824.56   |                  | 822.12 |      |      |
| 926       | 491+64.00 | 25.75 FT RT | FES, 12 IN     |                      |          | 821.80           |        |      |      |

GRASS LAKE ROAD

| STRUCT NO | LOCATION |             | STRUCTURE TYPE     | FRAME & LID OR GRATE | RIM ELEV | INVERT ELEVATION |        |        |        |
|-----------|----------|-------------|--------------------|----------------------|----------|------------------|--------|--------|--------|
|           | STATION  | OFFSET      |                    |                      |          | NORTH            | SOUTH  | EAST   | WEST   |
| 799       | 15+59.13 | 32.00 FT LT | FES, EL, 24 IN EQ  | HWY STD 542311       |          |                  | 778.92 |        |        |
| 800       | 15+59.13 | 34.00 FT RT | FES, EL, 24 IN EQ  | HWY STD 542311       |          | 778.39           |        |        |        |
| 801       | 16+85.00 | 19.00 FT LT | CB, TY C           | TY 24 FR & GR        | 781.49   |                  |        |        | 778.43 |
| 802       | 16+75.00 | 19.00 FT LT | CB, TY A, 4 FT DIA | TY 24 FR & GR        | 781.49   | 778.36           | 778.36 | 778.36 |        |
| 803       | 16+75.00 | 30.00 FT LT | CB, TY A, 4 FT DIA | TY 8 GR              | 781.40   |                  | 778.29 | 778.19 |        |
| 804       | 17+50.00 | 19.00 FT LT | CB, TY A, 4 FT DIA | TY 24 FR & GR        | 781.70   | 778.27           |        |        |        |
| 805       | 17+50.00 | 30.00 FT LT | MH, TY A, 4 FT DIA | TY 1 FR & CL         | 782.10   |                  | 778.20 | 777.95 | 777.95 |
| 806       | 13+30.00 | 14.00 FT RT | CB, TY A, 4 FT DIA | TY 24 FR & GR        | 783.26   |                  |        | 780.75 |        |
| 807       | 13+30.00 | 31.00 FT RT | FES, 12 IN         |                      |          |                  |        |        | 780.66 |
| 808       | 15+00.00 | 17.54 FT RT | CB, TY A, 4 FT DIA | TY 24 FR & GR        | 782.12   |                  |        | 778.93 |        |
| 809       | 15+00.00 | 34.00 FT RT | FES, 12 IN         |                      |          |                  |        |        | 778.84 |
| 810       | 16+36.00 | 20.00 FT RT | INLET, TY A        | TY 24 FR & GR        | 781.91   | 778.87           |        |        |        |
| 811       | 16+41.00 | 20.00 FT RT | CB, TY A, 4 FT DIA | TY 24 FR & GR        | 781.91   | 778.84           | 778.84 |        |        |
| 820       | 19+00.00 | 34.16 FT BT | CB, TY A, 4 FT DIA | TY 24 FR & GR        | 781.90   | 777.75           |        |        |        |
| 821       | 19+00.00 | 43.00 FT LT | MH, TY A, 4 FT DIA | TY 1 FR & CL         | 782.28   | 778.32           | 777.70 | 777.45 | 777.45 |
| 822       | 19+27.14 | 44.30 FT LT | MH, TY A, 5 FT DIA | TY 1 FR & CL         | 782.24   | 778.12           | 777.39 |        | 777.39 |
| 823       | 20+75.00 | 30.92 FT LT | CB, TY A, 4 FT DIA | TY 24 FR & GR        | 784.43   |                  |        |        | 780.32 |
| 824       | 20+39.30 | 11.00 FT LT | MH, TY A, 5 FT DIA | TY 1 FR & CL         | 784.40   | 777.62           | 777.62 | 779.95 |        |
| 828       | 19+72.38 | 48.57 FT RT | CB, TY A, 4 FT DIA | TY 24 FR & GR        | 782.03   | 778.15           |        |        |        |
| 829       | 19+76.95 | 42.92 FT RT | MH, TY A, 6 FT DIA | TY 1 FR & CL         | 782.24   | 777.14           | 778.12 | 777.14 |        |
| 830       | 20+67.09 | 42.75 FT RT | MH, TY A, 6 FT DIA | TY 24 FR & GR        | 783.93   | 777.43           |        | 776.93 | 776.93 |
| 835       | 21+50.00 | 6.00 FT RT  | CB, TY A, 4 FT DIA | TY 11V FR & GR       | 786.85   |                  | 782.02 |        |        |

GRASS LAKE ROAD STORM SEWER OUTLET

| STRUCT NO | LOCATION   |             | STRUCTURE TYPE     | FRAME & LID OR GRATE | RIM ELEV | INVERT ELEVATION |        |      |        |
|-----------|------------|-------------|--------------------|----------------------|----------|------------------|--------|------|--------|
|           | STATION    | OFFSET      |                    |                      |          | NORTH            | SOUTH  | EAST | WEST   |
| 831       | 21+50.00   | 38.00 FT RT | MH, TY A, 6 FT DIA | TY 1 FR & CL         | 786.00   | 781.75           | 775.94 |      | 776.84 |
| 832       | 2798+85.43 | 30.00 FT LT | MH, TY A, 6 FT DIA | TY 8 GR              | 780.44   | 775.64           | 775.38 |      | 776.84 |
| 833       | 2794+92.00 | 30.00 FT LT | MH, TY A, 6 FT DIA | TY 8 GR              | 779.27   | 774.91           | 774.91 |      |        |
| 834       | 2794+00.00 | 30.00 FT LT | FES, 36 IN         |                      |          |                  | 774.80 |      |        |

STA 475+00 TO STA 481+00

| PIPE NO | LOCATION  |             |           |             | SIZE In | LENGTH ft | TYPE | SLOPE | TRENCH BACKFILL cu yd |
|---------|-----------|-------------|-----------|-------------|---------|-----------|------|-------|-----------------------|
|         | FROM      |             | TO        |             |         |           |      |       |                       |
|         | STATION   | OFFSET      | STATION   | OFFSET      |         |           |      |       |                       |
| 771     | 478+68.88 | 31.00 FT RT | 478+68.88 | 31.80 FT LT | 24      | 50.8      | 1    | 1.00% | 4.4                   |

STA 481+00 TO STA 487+00

| PIPE NO | LOCATION  |             |           |             | SIZE In | LENGTH ft | TYPE | SLOPE | TRENCH BACKFILL cu yd |
|---------|-----------|-------------|-----------|-------------|---------|-----------|------|-------|-----------------------|
|         | FROM      |             | TO        |             |         |           |      |       |                       |
|         | STATION   | OFFSET      | STATION   | OFFSET      |         |           |      |       |                       |
| 773     | 481+25.00 | 25.00 FT LT | 482+28.00 | 30.00 FT LT | 12      | 101.1     | 1    | 0.50% | 2.4                   |
| 775     | 485+29.70 | 29.40 FT RT | 485+29.70 | 29.00 FT LT | 24      | 46.3      | 1    | 0.50% | 3.7                   |

STA 487+00 TO STA 493+00

| PIPE NO | LOCATION  |             |           |             | SIZE In | LENGTH ft | TYPE | SLOPE | TRENCH BACKFILL cu yd |
|---------|-----------|-------------|-----------|-------------|---------|-----------|------|-------|-----------------------|
|         | FROM      |             | TO        |             |         |           |      |       |                       |
|         | STATION   | OFFSET      | STATION   | OFFSET      |         |           |      |       |                       |
| 925     | 492+35.00 | 25.75 FT RT | 491+64.00 | 25.75 FT RT | 12      | 63.1      | 1    | 0.50% | 3.8                   |

GRASS LAKE ROAD

| PIPE NO | LOCATION |             |           |             | SIZE In | LENGTH ft | TYPE | SLOPE | TRENCH BACKFILL cu yd |
|---------|----------|-------------|-----------|-------------|---------|-----------|------|-------|-----------------------|
|         | FROM     |             | TO        |             |         |           |      |       |                       |
|         | STATION  | OFFSET      | STATION   | OFFSET      |         |           |      |       |                       |
| 800     | 15+59.13 | 32.00 FT LT | 15+59.13  | 34.00 FT RT | 24 EQ   | 53.8      | 1    | 1.00% | 0.0                   |
| 801     | 16+85.00 | 19.00 FT LT | 16+75.00  | 19.00 FT LT | 12      | 7.4       | 1    | 1.00% | 0.2                   |
| 802     | 16+75.00 | 19.00 FT LT | 16+75.00  | 30.00 FT LT | 12      | 7.2       | 1    | 1.00% | 0.1                   |
| 803     | 16+75.00 | 30.00 FT LT | 17+50.00  | 30.00 FT LT | 15      | 71.2      | 1    | 0.34% | 22.4                  |
| 804     | 17+50.00 | 19.00 FT LT | 17+50.00  | 30.00 FT LT | 12      | 7.2       | 2    | 1.00% | 0.6                   |
| 805     | 17+50.00 | 30.00 FT LT | 19+00.00  | 43.00 FT LT | 15      | 146.8     | 1    | 0.34% | 35.5                  |
| 806     | 13+30.00 | 14.00 FT RT | 13+30.00  | 31.00 FT RT | 12      | 9.1       | 1    | 1.00% | 0.0                   |
| 808     | 15+00.00 | 17.54 FT RT | 15+00.00  | 34.00 FT RT | 12      | 8.6       | 1    | 1.00% | 0.0                   |
| 810     | 16+36.00 | 20.00 FT RT | 16+41.00  | 20.00 FT RT | 12      | 2.4       | 1    | 1.27% | 0.0                   |
| 811     | 16+41.00 | 20.00 FT RT | 16+75.00  | 19.00 FT LT | 12      | 48.0      | 1    | 1.00% | 1.4                   |
| 820     | 19+00.00 | 34.16 FT LT | 19+00.00  | 43.00 FT LT | 12      | 5.1       | 2    | 1.00% | 0.3                   |
| 821     | 19+00.00 | 43.00 FT LT | 19+27.14  | 44.30 FT LT | 18      | 22.9      | 2    | 0.26% | 2.4                   |
| 822     | 19+27.14 | 44.30 FT LT | 19+76.95  | 42.92 FT RT | 18      | 95.2      | 2    | 0.26% | 17.2                  |
| 823     | 20+75.00 | 30.92 FT LT | 20+39.30  | 11.00 FT LT | 12      | 36.6      | 2    | 1.00% | 5.4                   |
| 824     | 20+39.30 | 11.00 FT LT | 20+67.09  | 42.75 FT RT | 30      | 55.2      | 2    | 0.35% | 33.3                  |
| 828     | 19+72.38 | 48.57 FT RT | 19+76.95  | 42.92 FT RT | 12      | 2.5       | 2    | 1.00% | 0.2                   |
| 829     | 19+76.95 | 42.92 FT RT | 249+04.70 | 12.00 FT LT | 24      | 19.6      | 1    | 0.12% | 4.2                   |
| 830     | 20+67.09 | 42.75 FT RT | 21+50.00  | 38.00 FT RT | 36      | 78.2      | 2    | 0.12% | 1.8                   |
| 835     | 21+50.00 | 6.00 FT RT  | 21+50.00  | 38.00 FT RT | 12      | 27.0      | 2    | 1.00% | 4.6                   |

GRASS LAKE ROAD STORM SEWER OUTLET

| PIPE NO | LOCATION   |             |            |             | SIZE In | LENGTH ft | TYPE | SLOPE | TRENCH BACKFILL cu yd |
|---------|------------|-------------|------------|-------------|---------|-----------|------|-------|-----------------------|
|         | FROM       |             | TO         |             |         |           |      |       |                       |
|         | STATION    | OFFSET      | STATION    | OFFSET      |         |           |      |       |                       |
| 831     | 21+50.00   | 38.00 FT RT | 2798+85.43 | 30.00 FT LT | 36      | 101.0     | 1    | 0.30% | 0.0                   |
| 832     | 2798+85.43 | 30.00 FT LT | 2794+92.00 | 30.00 FT LT | 36      | 388.0     | 1    | 0.12% | 0.0                   |
| 833     | 2794+92.00 | 30.00 FT LT | 2794+00.00 | 30.00 FT LT | 36      | 89.0      | 1    | 0.12% | 0.0                   |

NOTE:  
PIPES LISTED IN TABLES AS "EQ" REFER TO HORIZONTAL ELLIPTICAL PIPE.  
THIS PIPE IS TO BE PAID FOR AS: PIPE CULVERTS, CLASS A, TYPE 1,  
OF THE EQUIVALENT ROUND SIZE SHOWN

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| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>ILLINOIS ROUTE 83<br>FROM THE WISCONSIN STATE LINE TO<br>NORTH OF PETITE LAKE ROAD<br><br><b>DRAINAGE TABLES</b><br>STA 475+00 TO STA 493+00<br>& GRASS LAKE ROAD<br><br>DATE: 1/30/09<br><br>DRAWN BY: GP<br>CHECKED BY: MW |
|-----------|------|---|
| NAME      | DATE |   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.  
CHICAGO, ILLINOIS