

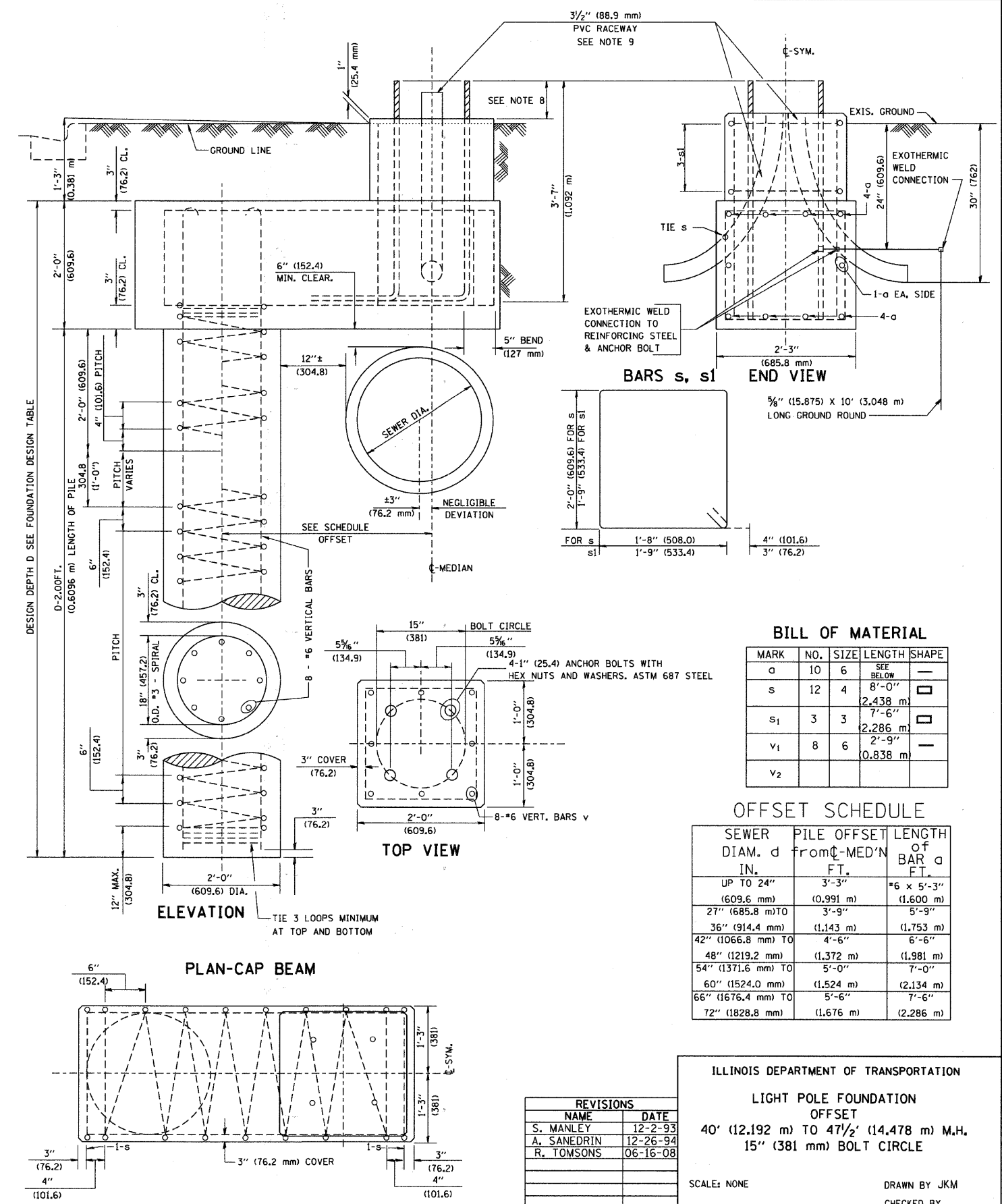
| F. A. SHE.            | SECTION        | COUNTY   | TOTAL SHEETS | SHEET NO.        |
|-----------------------|----------------|----------|--------------|------------------|
| 2582                  | 10-00102-00-LT | COOK     | 13           | 10               |
| STA.                  |                | TO STA.  |              |                  |
| FED. ROAD DIST. NO. 7 |                | ILLINOIS |              | FED. AID PROJECT |

FOUNDATION DESIGN TABLE

| TYPE OF SOIL            | DESIGN DEPTH OF FOUNDATION |                     | REINFORCEMENT IN FOUNDATION |                       |                          |                       |
|-------------------------|----------------------------|---------------------|-----------------------------|-----------------------|--------------------------|-----------------------|
|                         | SINGLE ARM<br>D            | TWIN ARM<br>D       | SINGLE ARM                  |                       | TWIN ARM                 |                       |
|                         |                            |                     | VERT BARS                   | SPIRAL                | VERT BARS                | SPIRAL                |
| SOFT CLAY               | 13'-0"<br>(3.962 m)        | 15'-0"<br>(4.572 m) | 8-#6X12'-6"<br>(3.810 m)    | *3X122'<br>(37.186 m) | 8-#6X14'-3"<br>(4.343 m) | *3X141'<br>(42.977 m) |
| MEDIUM CLAY             | 9'-6"<br>(2.896 m)         | 10'-9"<br>(3.277 m) | 8-#6X9'-0"<br>(2.743 m)     | *3X90'<br>(27.432 m)  | 8-#6X10'-0"<br>(3.048 m) | *3X100'<br>(30.480 m) |
| STIFF CLAY              | 7'-0"<br>(2.134 m)         | 8'-0"<br>(2.438 m)  | 8-#6X6'-6"<br>(1.981 m)     | *3X66'<br>(20.112 m)  | 8-#6X7'-6"<br>(2.286 m)  | *3X76'<br>(23.165 m)  |
| LOOSE SAND              | 9'-0"<br>(2.743 m)         | 10'-0"<br>(3.048 m) | 8-#6X8'-6"<br>(2.591 m)     | *3X85'<br>(25.908 m)  | 8-#6X9'-6"<br>(2.896 m)  | *3X94'<br>(28.651 m)  |
| MEDIUM SAND             | 8'-3"<br>(2.515 m)         | 9'-0"<br>(2.743 m)  | 8-#6X8'-0"<br>(2.438 m)     | *3X78'<br>(23.774 m)  | 8-#6X8'-6"<br>(2.591 m)  | *3X85'<br>(25.908 m)  |
| DENSE SAND              | 7'-9"<br>(2.362 m)         | 9'-0"<br>(2.743 m)  | 8-#6X7'-6"<br>(2.286 m)     | *3X73'<br>(22.250 m)  | 8-#6X8'-6"<br>(2.591 m)  | *3X85'<br>(25.908 m)  |
| ROCK OR SOLIDIFIED SLAG | 5'-0"<br>(1.524 m)         | 5'-0"<br>(1.524 m)  | NONE                        | NONE                  | NONE                     | NONE                  |

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ENGINEER SHALL DETERMINE THE CLASS OF SOIL DURING EXCAVATION AND SELECT THE DESIGN DEPTH OF FOUNDATION FROM THE DESIGN TABLE.
- EXCAVATION OF THE POLE FOUNDATION SHALL BE MADE WITH AN AUGER, 24" (609.6 mm) OR 30" (762.0 mm) IN DIAMETER.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR BOLTS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF FOUNDATION WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS. IF LIGHT POLE IS MOUNTED WITHOUT BREAKAWAY DEVICE, ANCHOR BOLTS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE TOP OF THE FOUNDATION. THE CONTRACTOR SHALL CONFIRM ANCHOR BOLT EXTENTION WITH ENGINEER.
- RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE LIGHT IS ERECTED.



| REVISIONS   |          |
|-------------|----------|
| NAME        | DATE     |
| S. MANLEY   | 12-2-93  |
| A. SANEDRIN | 12-26-94 |
| R. TOMSONS  | 06-16-08 |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 LIGHT POLE FOUNDATION  
 OFFSET  
 40' (12,192 m) TO 47 1/2' (14,478 m) M.H.  
 15" (381 mm) BOLT CIRCLE

SCALE: NONE  
 DRAWN BY JKM  
 CHECKED BY