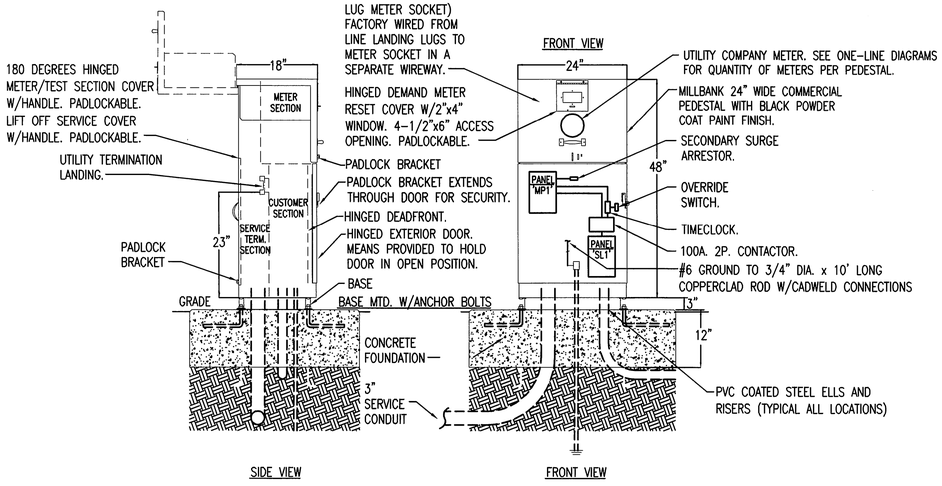
PEDESTAL NOTES:

1. CONTROL CABINET SHALL BE U/L LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
2. CONSTRUCTION SHALL BE NEMA 3R.
3. PROVIDE 100A METER, SOCKET, AND PANELBOARDS PER NOTES.
4. SERVICE EQUIPMENT ENCLOSURE AND METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY. THE METER AREA SHALL HAVE A SEALABLE, LOCKABLE, RAINTIGHT COVER THAT CAN BE REMOVED WITHOUT THE USE OF TOOLS.
5. SERVICE EQUIPMENT SHALL BE FACTORY WIRED AND CONFORM TO NEMA STANDARDS.
6. THE EXTERIOR DOOR SHALL HAVE PROVISIONS FOR PADLOCKING. THE PADLOCK HOLE SHALL BE A MINIMUM DIAMETER OF 11mm.
7. ALL TERMINALS FOR INCOMING SERVICE CONDUCTORS SHALL BE COMPATIBLE WITH EITHER COPPER OR ALUMINUM CONDUCTORS SIZED TO SUIT THE CONDUCTORS SHOWN ON THE PLAN. TERMINAL LUGS SHALL BE COPPER OR TIN-PLATED ALUMINUM. SOLID NEUTRAL TERMINAL STRIP SHALL BE RATED 125A UNLESS OTHERWISE SPECIFIED AND FOR USE WITH COPPER OR ALUMINUM CONDUCTORS. THE TERMINAL SHOULD INCLUDE BUT NOT BE LIMITED TO:
   A) INCOMING TERMINALS (LANDING LUGS)
   B) NEUTRAL LUGS
   C) SOLID NEUTRAL TERMINAL STRIP.
   D) TERMINAL STRIPS FOR CONDUCTORS WITHIN THE ENCLOSURE.
8. PROVIDE PANELBOARD PER PANELBOARD SCHEDULES. SEE ONE-LINE DIAGRAMS FOR PANELBOARD QUANTITIES.
9. PLUG-IN CIRCUIT BREAKERS MAY BE MOUNTED IN THE VERTICAL OR HORIZONTAL POSITION. CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS SHALL BE MOUNTED IN THE VERTICAL POSITION.
10. FASTENERS ON THE EXTERIOR OF THE ENCLOSURE SHALL BE VANDAL RESISTANT AND SHALL NOT BE REMOVABLE FROM THE EXTERIOR. ALL NUTS, BOLTS, SCREWS, WASHERS, AND HINGES SHALL BE STAINLESS STEEL.
11. PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
12. A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
13. FOUNDATION/PAD SHALL EXTEND 18" MINIMUM BEYOND EDGE OF ENCLOSURE.

CONSTRUCTION

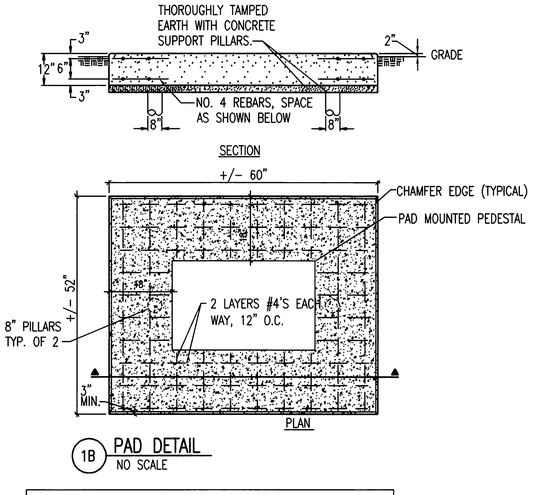
METER SOCKET (100 AMP MINIMUM PER WESTAR STANDARDS. 120/208V SERVICE REQUIRES A 5 LUG METER SOCKET) FACTORY WIRED FROM LINE LANDING LUGS TO METER SOCKET IN A SEPARATE WIREWAY.




1A PEDESTAL DETAIL
NO SCALE

PAD NOTES:

1. THE TOP OF THE PAD SHALL RECEIVE A SMOOTH TROWEL FINISH. THE CORNERS AND EDGES SHALL BE CHAMFERED.
2. THE CONCRETE SHALL BE A MINIMUM OF 4,000 LB. MIX.
3. CONTRACTOR SHALL EXTEND FORMS DOWN TO AT LEAST 3" BELOW AVERAGE GROUND LINE.
4. TOP OF CONDUITS SHALL BE FLUSH WITH TOP OF PAD.
5. THE CONDUIT OPENING SHALL BE FREE AND CLEAR OF CONCRETE.
6. CONCRETE FILLED PILLARS ARE FORMED BY AUGERING AN 8" DIAMETER HOLE TO A DEPTH OF UNDISTURBED EARTH (MIN. 36"). A SEPARATOR, SUCH AS TAR PAPER, SHOULD BE PLACED BETWEEN THE PILLAR AND THE PAD SO THE PAD CAN BE LEVELLED AT A LATER TIME IF NECESSARY.

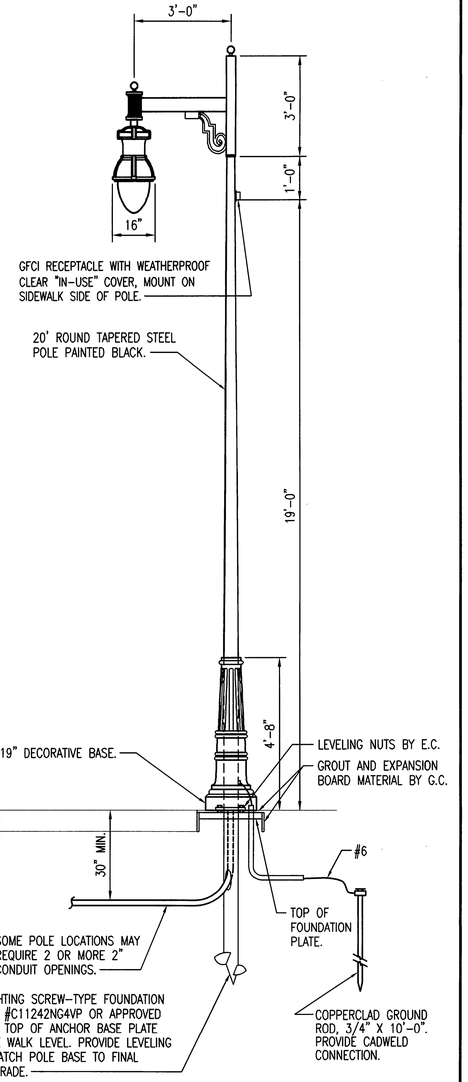



1B PAD DETAIL
NO SCALE

NOTE:
1. UTILITY METER SHALL BE LOCATED PER WESTAR REQUIREMENTS. VERIFY ALL SERVICE REQUIREMENTS WITH WESTAR.
2. SEE SITE PLANS FOR APPROXIMATE LOCATIONS.

PAD BY CONTRACTOR, VERIFY ALL REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO PLACING CONCRETE PAD.

TYPICAL ELECTRICAL SERVICE PEDESTAL DETAIL
1 NO SCALE VOLTAGE: 208V, 3ø, 4-WIRE

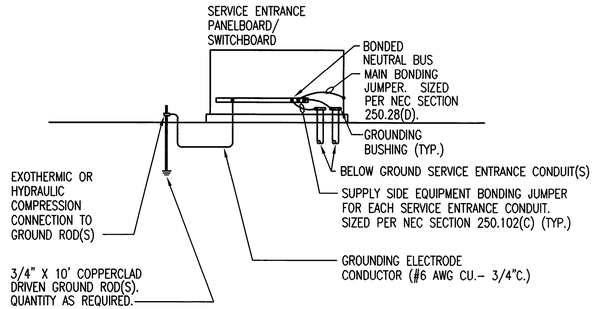



2 LIGHTING POLE 'S2' DETAIL
NO SCALE

# SUMMARY OF ELECTRIC LIGHTING SYSTEM QUANTITIES *

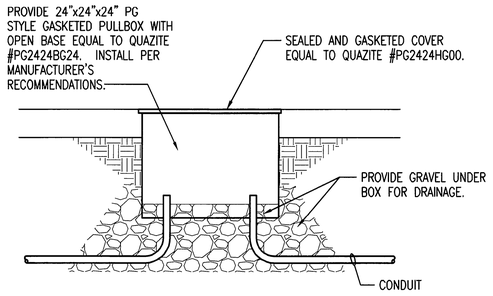
| DESCRIPTION | UNIT OF MEASURE | QUANTITY |
|---|---|---|
| ENCLOSURE PEDESTAL | EACH | 1 |
| #1 AWG COPPER CABLE | FOOT | 660 |
| #6 AWG COPPER CABLE | FOOT | 3033 |
| #8 AWG COPPER CABLE | FOOT | 17805 |
| #10 AWG COPPER CABLE | FOOT | 11957 |
| #12 AWG COPPER CABLE | FOOT | 6150 |
| 3" PVC CONDUIT | FOOT | 205 |
| 2" RGS CONDUIT | FOOT | 4400 |
| 3" PVC CONDUIT 90° ELBOW | EACH | 2 |
| 2" RGS CONDUIT 90° ELBOW | EACH | 79 |
| 3/4" x 10'-0" GROUND RODS WITH CLAMPS | EACH | 35 |
| STREET LIGHT FIXTURE S1 - PROVIDED BY OTHERS, INSTALLED BY CONTRACTOR | EACH | 4 |
| STREET LIGHT FIXTURE S2 - 175W PMH - 20'-0" RTS POLE | EACH | 34 |
| SCREW IN FOUNDATION FOR LIGHT POLE | EACH | 38 |
| 20A. 125V. 2P. 3W. GFCI RECEPTACLE WITH IN-USE COVER | EACH | 34 |
| TRENCH AND BACKFILL | FOOT | 3562 |
| GROUND MOUNTED J-BOX | EACH | 2 |

FOR INFORMATION ONLY. THE BID ITEM "STREET LIGHTING" SHALL INCLUDE ALL ITEMS LISTED AND ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE COMPLETE OPERATION OF THE ELECTRICAL LIGHTING SYSTEM.




NOTE: PROVIDE OTHER GROUNDING CONNECTIONS AS SPECIFIED IN NEC SECTION 250.50.

3 SYSTEM GROUNDING DETAIL - PANEL
NO SCALE




4 GROUND MOUNTED J-BOX
NO SCALE

NOTE: E.C. SHALL PROVIDE A J-BOX WHERE SHOWN ON PLANS.

| No. | Revision | By | Date |
|---|---|---|---|
| | | | |

ST. FRANCIS STREET
ELECTRICAL DETAILS
JAMES L. ARMOUR, P.E. - CITY ENGINEER
CITY OF WICHITA PROJECT NO. 472-84920

SHAWN M. SCHRADER LICENSED 13340 7-14-11 KANSAS PROFESSIONAL ENGINEER

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com

| Designed by | SMS | Job No. | 10310 | Sht. E2 of 7 |
|---|---|---|---|---|
| Drawn by | ADM | Date | JULY 2011 | |

Saved 07-14-2011 9:27:27 AM by ADM
Plot Scale 1:20 07-14-2011 9:28:10 AM by ADM
E:\2010\10310\10310-E2