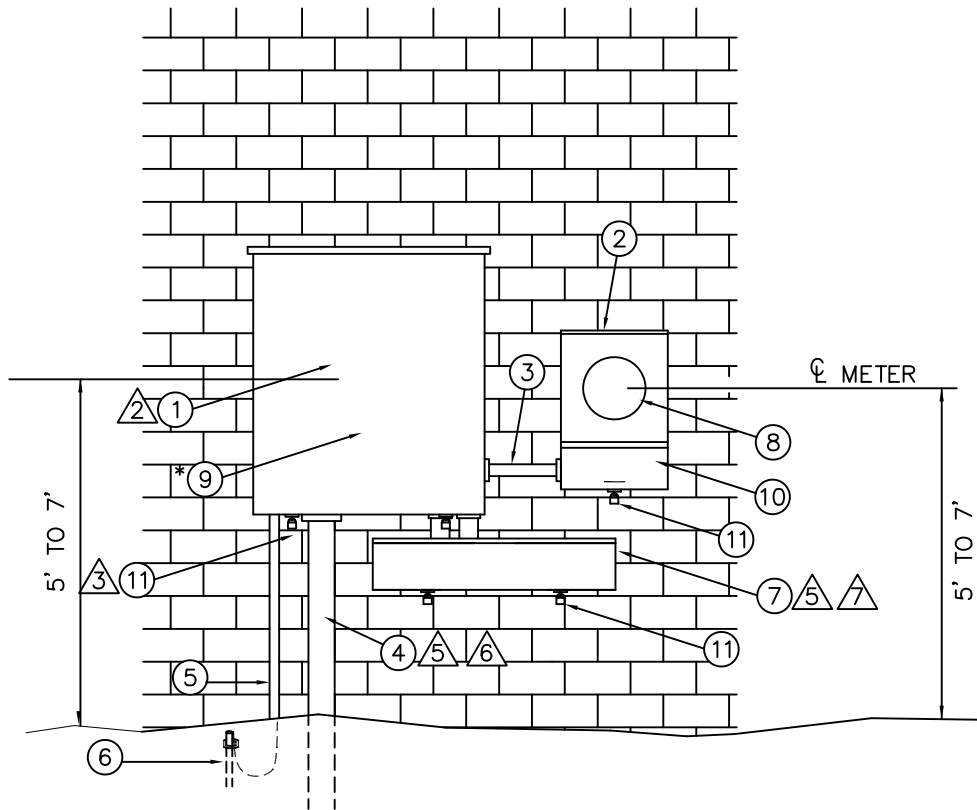


SU-1-CT

APPLICATION GUIDE

| DESCRIPTION | VOLTAGE | |
|-------------|--------------------------------|--------------------------------|
| | OH/UG 1 ϕ 120/240 V | OH/UG 1 ϕ 120/208 V |
| COMMERCIAL | X | X |
| RESIDENTIAL | X | |



| | | | |
|---|----------------------|--|---|
| △ | GENERAL NOTES | ELECTRIC SERVICE STANDARD CITY UTILITIES OF SPRINGFIELD MO. | |
| | SEE PAGE 2 FOR NOTES | DRAWN BY: G.GUEVARA REV BY: W.BROOKS FILE: SU-1-CT1 | SERVICE UNDERGROUND 1 ϕ C.T. SERVICE MAXIMUM 1200 AMPS |
| | | APPROVED: 09/18/06 | REVISED: 06/01/06 |
| | | SHEET OF 1 OF 2 | STD. NO. SU-1-CT |

MATERIAL LIST

| QTY. | DESCRIPTION | STOCK NO. | QTY. | DESCRIPTION | STOCK NO. |
|------|---|-----------|------|--|-----------|
| | FURNISHED and INSTALLED BY CUSTOMER | | | FURNISHED BY CITY UTILITIES | |
| 1. | 1 CURRENT TRANSFORMER ENCLOSURE (RAINTIGHT, AND HAVE PROVISION FOR LOCKING WITH A CITY UTILITIES PADLOCK) - Δ FOR 400 AMP SERVICES, THE MINIMUM RECOMMENDED SIZE IS 24" x 24" x 12". FOR 600 OR 800 AMP SERVICES, THE MINIMUM RECOMMENDED SIZE IS 36" x 36" x 12". THE C.T. ENCLOSURE SHALL NOT BE SMALLER THAN ALLOWED BY 2017 NEC ARTICLE 314.28 | | 8. | 1 8 TERMINAL METER | |
| | | | *9. | 2 CURRENT TRANSFORMERS | |
| | | | 10. | 1 TEST SWITCH. | |
| | | | 11. | AS REQD PADLOCK OR METER SEAL | |
| 2. | 1 METER ENCLOSURE, FOR 8 TERMINAL METER (RAINTIGHT, ENCLOSURE MUST HAVE ROOM AND MOUNTING PLATE FOR TEST SWITCH, MINIMUM SIZE 12" WIDE x 18" HIGH x 4" DEEP) | | | | |
| 3. | AS REQD 1" EMT CONDUIT - Δ | | | | |
| 4. | AS REQD SERVICE LATERAL CONDUIT(S) AND CONDUCTORS - Δ | | | | |
| 5. | AS REQD GROUNDING ELECTRODE CONDUCTOR - Δ | | | | |
| 6. | AS REQD GROUNDING ELECTRODE - Δ | | | | |
| 7. | 1 GUTTER MAY BE REQUIRED BY INSPECTOR - Δ (RAINTIGHT, AND HAVE PROVISION FOR LOCKING) FOR 400 AMP SERVICES THE MINIMUM RECOMMENDED SIZE IS 8" x 8" x LENGTH AS REQUIRED. FOR 600 OR 800 AMP SERVICES THE MINIMUM RECOMMENDED SIZE IS 12" x 12" x LENGTH AS REQUIRED. THE GUTTER SHALL NOT BE SMALLER THAN ALLOWED BY 2017 NEC ARTICLE 366 | | | | |
| | | | | *FURNISHED BY CITY UTILITIES INSTALLED BY CUSTOMER PICK UP AT 825 N. BELCREST | |



GENERAL NOTES

1. CUSTOMER TO VERIFY SIZE AND LOCATION OF ALL SERVICE EQUIPMENT WITH CITY UTILITIES AND APPROPRIATE INSPECTION AUTHORITY BEFORE BEGINNING WORK.
2. THE CUSTOMER SHALL NOT SPLICE ANY SERVICE CONDUCTOR IN THE CURRENT TRANSFORMER ENCLOSURE.
3. THE CURRENT TRANSFORMER ENCLOSURE SHALL NOT BE LOCKED BY THE CUSTOMER.
4. CONTACT CITY UTILITIES FOR QUESTIONS ON METERING OR METERING EQUIPMENT.
5. WHEN SERVICE ENTRANCE CONDUCTORS ARE INSTALLED AS PARALLEL RUNS, ALL CONNECTIONS SHALL BE IN ACCORDANCE WITH 2017 NEC ARTICLE 310.1H.
6. YOU MUST RECEIVE PRIOR APPROVAL FROM CITY UTILITIES IF YOUR SERVICE REQUIRES MORE THAN 3 SERVICE LATERAL CONDUITS.
7. USE INSULATED TAP BARS FOR ALL CONNECTIONS IN GUTTER, EACH BAR SHALL HAVE AT LEAST ONE OPEN TERMINAL.
8. 1200 AMPS MAXIMUM SIZE WITHOUT PRIOR APPROVAL FROM CITY UTILITIES.
9. CHECK WITH LOCAL INSPECTION AUTHORITY TO VERIFY REQUIREMENTS FOR GROUNDING ELECTRODE CONDUCTOR SIZE AND TYPE OF GROUNDING ELECTRODE TO BE USED. ALL GROUNDING TO MEET 2017 NEC ARTICLE 250.
10. IF CTs ARE REQUIRED FOR A SERVICE, THE CUSTOMER SHALL FURNISH AND INSTALL A CONDUIT NO LESS THAN 1" IN DIAMETER BETWEEN THE METER SOCKET AND THE CT LOCATION FOR THE EXCLUSIVE USE OF CITY UTILITIES. LB TYPE CONNECTORS "ELBOWS WITH REMOVABLE COVERS" SHALL NOT BE ALLOWED. THE MAXIMUM TOTAL LENGTH IS 40', WITH NO MORE THAN THREE 90° BENDS, UNLESS APPROVED BY THE ELECTRIC METERING SECTION.
11. METER SOCKET BONDING AS REQUIRED BY 2017 NEC ARTICLE 250(C).

**ELECTRIC SERVICE STANDARD
CITY UTILITIES OF SPRINGFIELD MO.**

| | | | |
|------------------------|--|--------------------|----------------------------|
| DRAWN BY: G.GUEVARA | SERVICE UNDERGROUND 1 \emptyset C.T. SERVICE MAXIMUM 1200 AMPS | | |
| REV BY: K.DENTON | | | |
| FILE: SU-1-CT2 | | | |
| APPROVED: 10/29/14 | REVISED: 03/19/18 | SHEET OF 2 2 | STD. NO. SU-1-CT |