



**1** **UTILITY METER SOCKET WIRING**  
 A1.01 SCALE: NO SCALE

**GENERAL NOTES**

- CONSTRUCTION SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL ELECTRICAL CODES AND STANDARDS.
- COORDINATE WITH UNL UTILITIES TO ALLOW ANY AND ALL INSPECTIONS BEFORE, DURING AND AFTER METER INSTALLATION AND CIRCUITING IS COMPLETE.
- COORDINATE WITH UNL PROJECT MANAGER FOR REQUIRED TEMPORARY POWER OUTAGES AND FOR ANY ANTICIPATED LOUD WORK GENERATING VIBRATIONS. COORDINATE A MINIMUM OF THREE (3) DAYS PRIOR TO SUCH WORK.
- TYPICALLY, SOLID CORE CURRENT TRANSFORMERS (CT'S) WILL BE INSTALLED VS. SPLIT CORE STYLE CT'S. SOLID CORE CT'S REQUIRE TEMPORARY DISCONNECTION OF EXISTING TRANSFORMER SECONDARY CONDUCTORS. PROVIDE THIS WORK AS REQ'D.
- ALL EXTERIOR ENCLOSURE PENETRATIONS SHALL BE WATER PROOFED.
- EXACT LOCATIONS AND PLACEMENT OF POSITIONS OF CT'S, METER SOCKET, AND SOCKET TEST SWITCH ON TRANSFORMER EXTERIOR SHALL BE REVIEWED AND APPROVED ON A PROJECT-BY-PROJECT BASIS.
- AS MUCH AS PRACTICAL, THE METER SOCKET, TEST SWITCH, AND CT'S SHALL BE PRE-WIRED OFF SITE TO MINIMIZE POWER OUTAGE DURATION.
- ALL CONDUCTORS SHALL BE SOLID CORE, #12AWG, COPPER, XHHW-2 TYPE CONDUCTORS. ALL NEW METER CONDUCTORS SHALL HAVE CONTINUOUS COLORED JACKETING MATCHING COLOR CODING PROVIDED ON THIS SHEET.

**# KEY NOTES**

- TERMINATE VOLTAGE CONDUCTOR ON TRANSFORMER SPADE. ADD LUGS AS REQ'D.
- CURRENT TRANSFORMER (CT) POLARITY MARK. POSITION TOWARDS SOURCE.
- CT FURNISHED BY UNL, INSTALLED BY CONTRACTOR. POSITION TO MINIMIZE STRAIN ON SECONDARY CONDUCTORS AS MUCH AS POSSIBLE.
- CT SHORTING BLOCK INTEGRAL TO CT. SHOWN FOR REFERENCE ONLY.
- NEATLY TRAIN METER CONDUCTORS INSIDE TRANSFORMER COMPARTMENT THRU TO TEST SWITCH. USE ZIP TIES AS REQ'D. ENSURE PROPER SLACK IS PROVIDED.
- BOND NEUTRAL METER CONDUCTOR TO GND STUD ON TEST SWITCH ENCLOSURE.
- METER SOCKET TEST SWITCH ENCLOSURE WITH VOLTAGE SWITCHES AND CT SHORTING SWITCHES. FURNISHED BY UNL, INSTALLED BY CONTRACTOR.
- METER SOCKET FURNISHED BY UNL, INSTALLED BY CONTRACTOR. METER BY UNL. SOCKET INTERNAL WIRING SHOWN HERE FOR REFERENCE ONLY.
- 1" GRS CONDUIT SURFACE MOUNTED ON TRANSFORMER EXTERIOR. PROVIDE TWO (2) 600V RATED CAT 5E CABLES FROM METER SOCKET TO J-BOX (KEYNOTE 8). BELDEN #7957A OR EQUAL CABLES. PROVIDE WITH FACTORY RJ45 JACKS ON BOTH ENDS.
- 4" SQ., NEMA 3R, GASKETED J-BOX. MOUNT TO TRANSFORMER EXTERIOR AT 18" ABOVE TRANSFORMER PAD. CONNECT CAT 5E CABLES VIA A RJ45-TO-RJ45 COUPLER.
- 1" GRS CONDUIT SURFACE MOUNTED ON TRANSFORMER EXTERIOR. PROVIDE TWO (2) CAT 5E CABLES FROM J-BOX TO BUILDING PER PROJECT DIRECTION. CABLES SHALL BE BELDEN #7929A OR EQUAL CABLES WITH RJ45 JACKS ON BOTH ENDS.

**SYMBOLS LEGEND**

- CONDUCTOR TERMINATION/CONNECTION
- CURRENT TRANSFORMER POLARITY MARK
- ⊂ CURRENT TRANSFORMER
- J JUNCTION BOX

PHASE TAP CONDUCTORS	
GY	GRAY JACKETED CONDUCTOR
BL	BLACK JACKETED CONDUCTOR
BU	BLUE JACKETED CONDUCTOR
RE	RED JACKETED CONDUCTOR

  

CURRENT XFMR CONDUCTORS	
WH	WHITE JACKETED CONDUCTOR
BR	BROWN JACKETED CONDUCTOR
OR	ORANGE JACKETED CONDUCTOR
YW	YELLOW JACKETED CONDUCTOR