

Specifications for Current Transformer Enclosures

Current transformers (CTs) are for transformer-rated watt-hour metering. They are used when a member's electrical needs are more than 320 amps of three phase service or more than 320 amps of single-phase service. CTs are also required on services of either 480 volts phase to ground or phase to phase. Most CTs are mounted atop PEC utility poles adjacent to our transformers. If a member needs or prefers the CTs away from the pole, a special housing enclosure is necessary to ensure safety and efficiency. This sheet highlights the specifications for those enclosures.

Necessary Materials-Enclosure

- Enclosure must meet Underwriter's Laboratories Standard Type 3R.
- Body and cover of the enclosure must be made of at least 14-gauge galvanized steel. The bottom must be at least 16-gauge galvanized steel.
- The enclosure must have a dripshield top and seam free sides, front, and back.
- Provisions for padlocking the enclosure must be provided.
- The enclosure must have a ground lug on the body.
- No plywood backboards will be accepted.
- The enclosure must be coated inside and out in either ANSI 61 gray powder finish over phosphatized surfaces or in galvanized sheet metal.

Necessary Materials-Unistrut

Two pieces of 12-gauge unistrut, 13/16 inches high x 1 5/8 inches wide x 20 inches long.

Installation Responsibilities

Acquiring and installing the CT enclosure and unistrut described above is the responsibility of the member or the member's qualified electrician. The member is also responsible for replacing or repairing the CT enclosure if it becomes damaged or deteriorated. The member or the electrician is responsible for properly grounding the CT enclosure.

PEC will supply and install the CTs, meter socket, and associated metering wiring. PEC will also maintain the noted equipment.

If available space does not allow, the meter socket can be moved up to 20 feet from the enclosure. The member or the member's electrician is responsible for the acquisition and installation of 1 inch EMT, unistrut, pipe straps, and conduit fittings connecting the enclosure to the meter socket.

Installation Specifications (See Illustration)

The center of the CT enclosure should be located 5 feet above ground level. The enclosure should be attached with appropriate fasteners to make sure it stays attached under normal conditions.

The unistrut pieces can be wall mounted at either side of the CT enclosure but must be at least 10 inches away. The two pieces of unistrut should be mounted horizontally and parallel to each other.

The top piece of unistrut should be mounted 66 inches above ground level. The second piece should be mounted 17 1/2 inches between centers below the top horizontal piece.

Approved Models of CT Enclosures

- Durham Current Transformer Enclosure
-Catalog Number: TC-3A
Dimensions: 33 in. high x 32 in. wide x 10 in. deep
- Electrical & Construction Products, Inc.
-Catalog Number: PEC303012 CT Can
Dimensions: 30 in. wide x 31 in. high x 12 in. deep
-Catalog Number: PEC363614 CT Can
Dimensions: 36 in. wide x 37 in. high x 14 in. deep
-Catalog Number: PEC424214 CT Can
Dimensions: 42 in. wide x 43 in. high x 14 in. deep
-Catalog Number: PEC484814 CT Can
Dimensions: 48 in. wide x 49 in. high x 14 in. deep
- Hoffman
-Catalog Number: A303012CTCJ
Dimensions: 30 in. wide x 30 in. high x 12 in. deep
-Catalog Number: A363614CTCJ
Dimensions: 36 in. wide x 36 in. high x 14 in. deep
-Catalog Number: A424214CTCJ
Dimensions: 42 in. wide x 42 in. high x 14 in. deep
-Catalog Number: A4848114CTCJ
Dimensions: 48 in. wide x 48 in. high x 14 in. deep
- Milbank CT3R CT Cabinet/Panel Enclosure Type 3R with Accessory Panel
-Catalog Number: 363010-CT3R (Enclosure)
Dimensions: 36 in. wide x 30 in. high x 10 in. deep
-Catalog Number: A-36P30A (Aluminum) or A-36P30S (Stainless Steel) Plate
Dimensions: 33 in. high x 27 in. wide

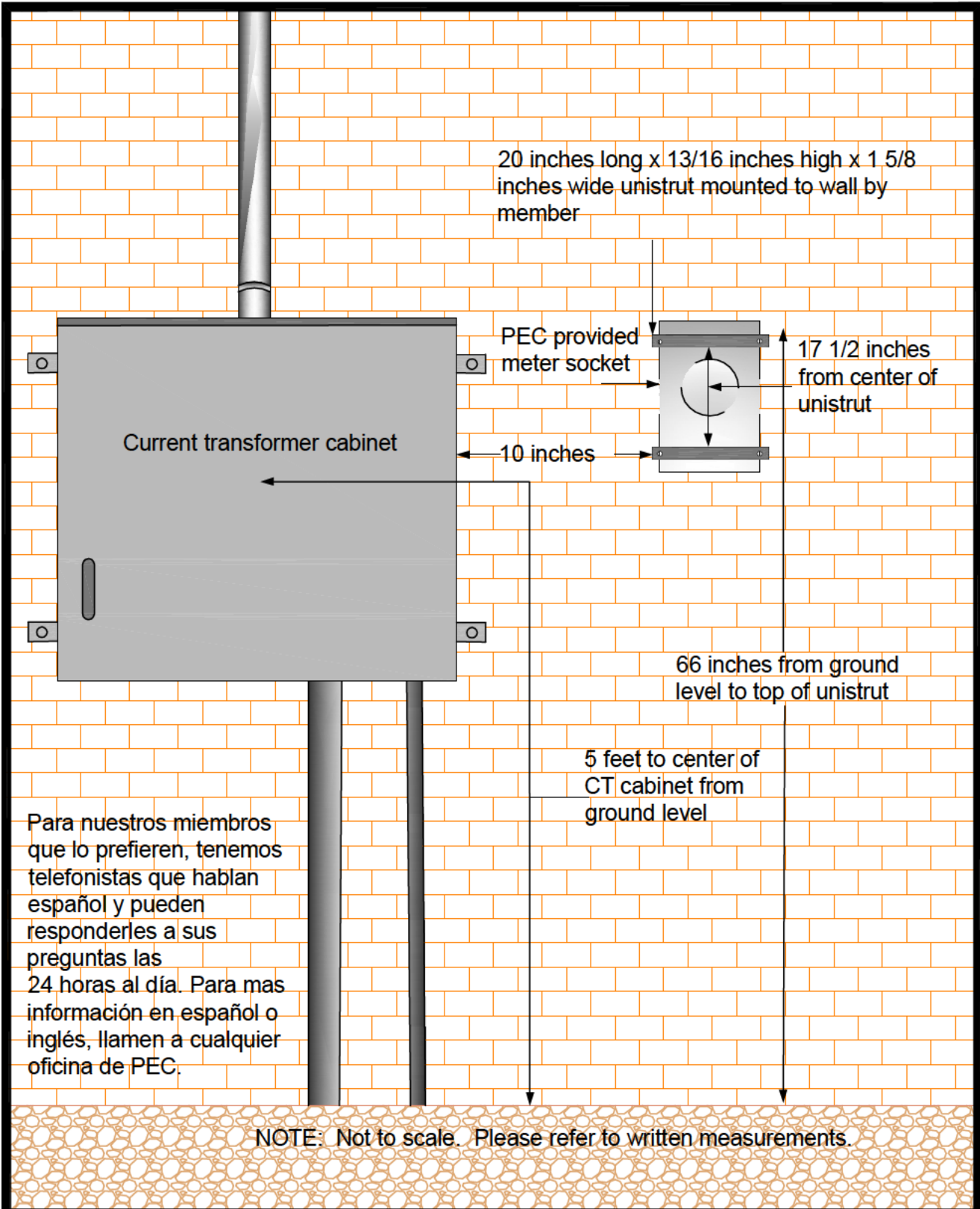


PEDERNALES ELECTRIC
COOPERATIVE, INC.
CT Metering

Current Transformer Enclosure

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REB	MJB	10/10/11	

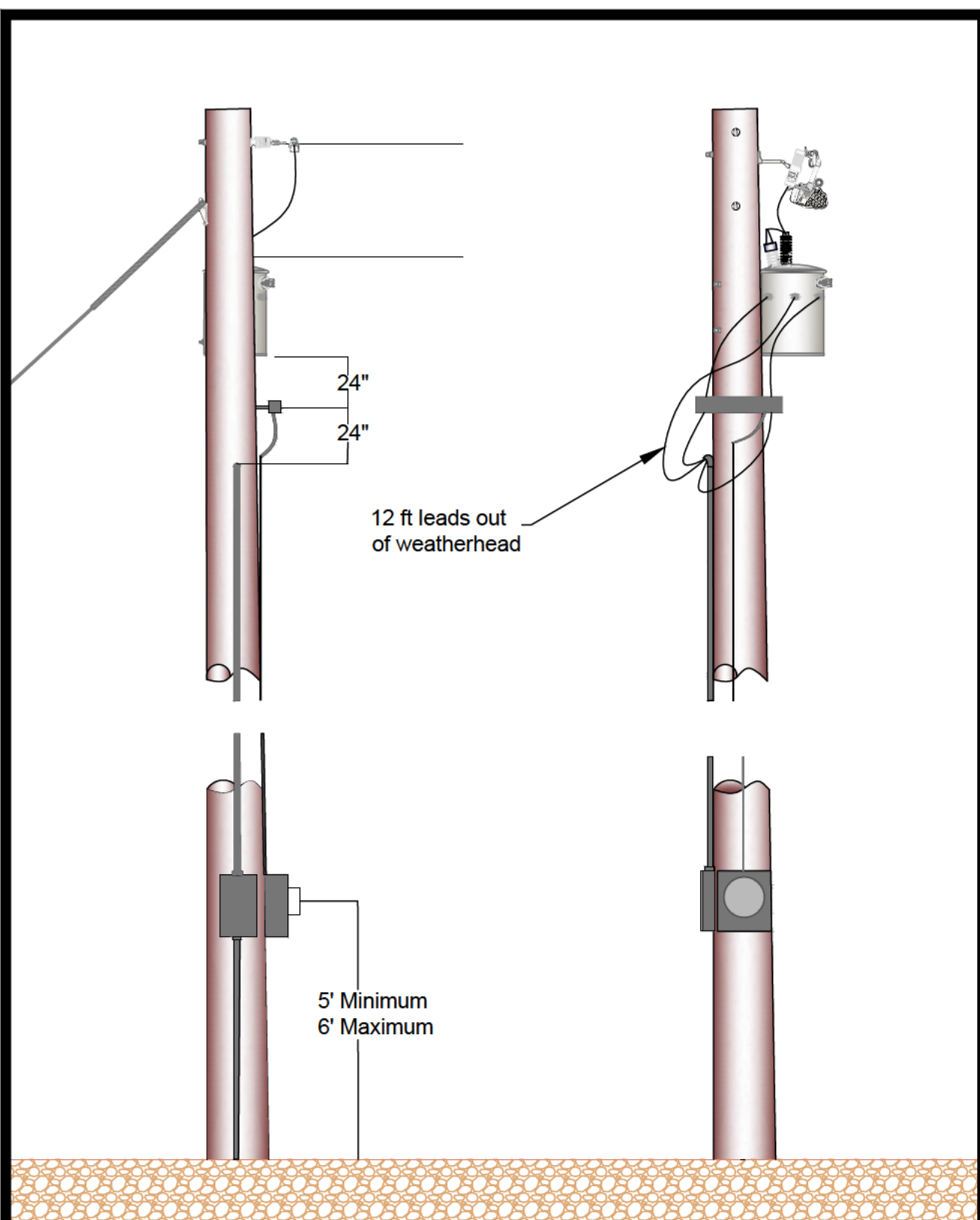
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CT Metering

Current Transformer Enclosure

drawn:	approved	date:
REB	MJB	10/10/11



PEDERNALES ELECTRIC
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CT Metering

1 Phase CT Metering

drawn:	approved	date:
REB	MJB	10/10/11