



METER - INSTALLATION

Pad Mount Transformer

07-01-15
ER 13-210-C
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USE: Pad mount transformer secondary compartment

PREVIOUS REVISION
10-01-12

ORIGINATED
03-94

PREVIOUS NUMBER
ER 700, 10-01-86

LATEST REVISION: Added specification for placement and height of rigid metal conduit to transformer rated meter socket and updated Figure 2.1.

SPECIFICATION:

1. GENERAL:

1.1 Any single phase pad mount transformer secondary voltage that requires instrument transformers must have a current transformer (CT) cabinet installed. Instrument transformers shall not be installed inside single phase pad mount transformers. If additional information is required, contact Electric Metering or Electric Standards.

1.2 Instrument current and potential transformers will be required as follows:

Padmount Transformer Secondary Voltage	Phase	Wire	Number of CT's	Number of PT's and Ratio
120/208	3	4	3	None
277/480	3	4	3	3-2.4:1
240	3	3	2	None
480	3	3	2	2-4:1

1.3 The instrument current and potential transformers shall be installed at the District Operating Headquarters prior to the installation of the pad mount transformer.

1.3.1 The current transformers will rest on the secondary blades of the pad mount transformer (if the CT's do not fit securely, they should be taped or a nut and bolt can be used to prevent any possibility of their falling off of the blades while the pad mount transformer is being transported).

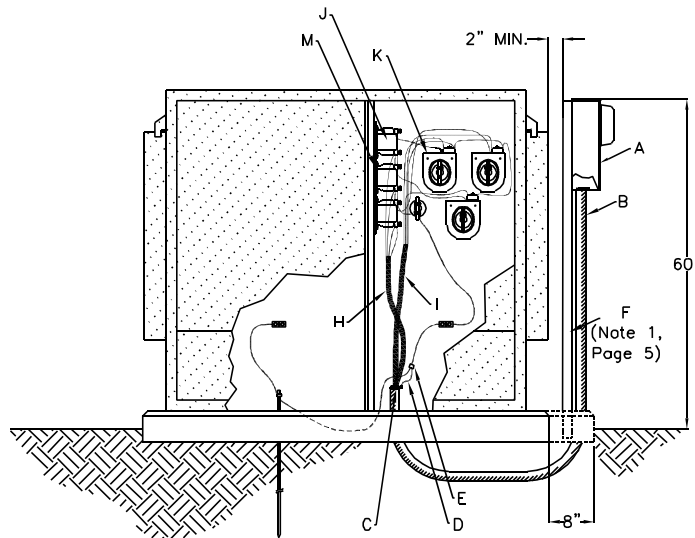
1.3.2 The potential transformers will be mounted on a bracket. The bracket will be attached to the High Voltage - Low Voltage barrier wall in the secondary compartment in a convenient area not interfering with the secondary blades or customer's secondary conductors.

1.4 The meter socket shall be furnished by the Company and installed by the Customer at his expense. The meter socket should be mounted on the building being served by the pad mount transformer at a distance not exceeding 20 feet. If the distance would exceed 20 feet, then a mounting stand as shown on page 3 shall be used.

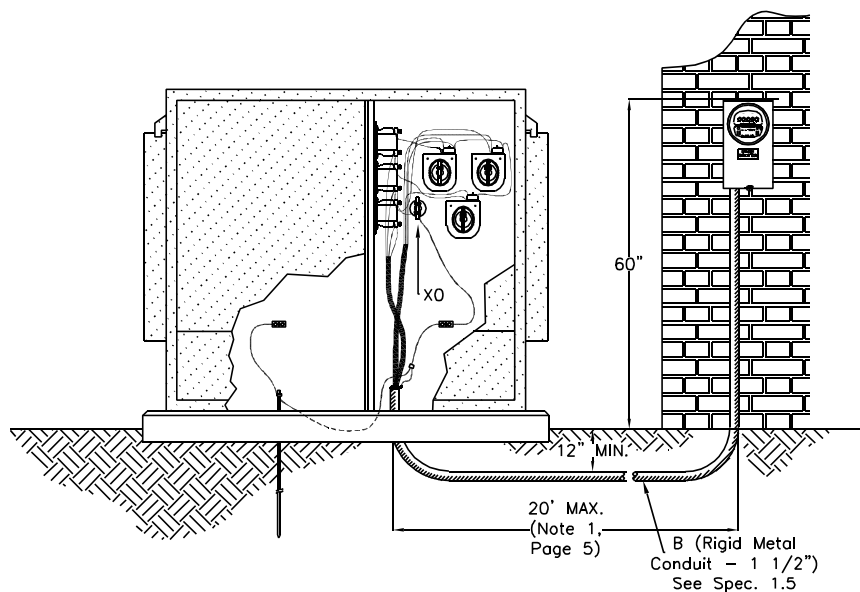
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1.5 The conduit running from the transformer secondary compartment to the transformer rated meter socket shall be 1 1/2" rigid metal conduit and shall be installed in front of the service conduits and at the same height as the service conduits to enable the installation of meter wiring.

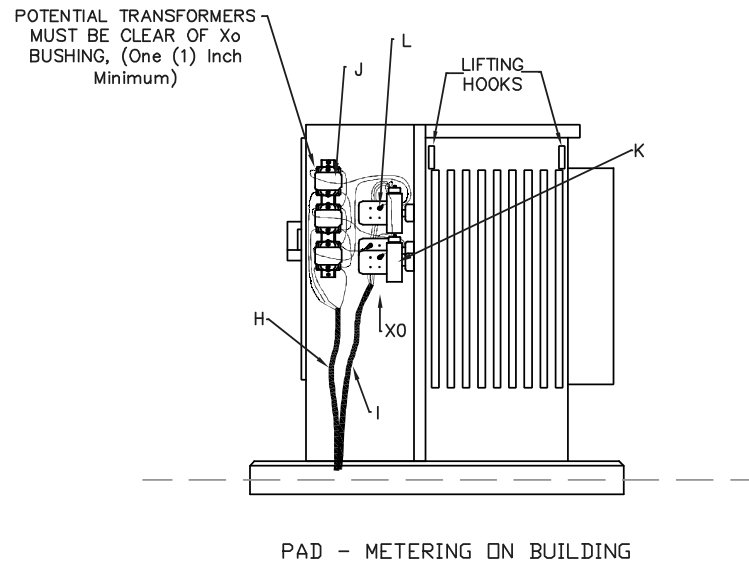
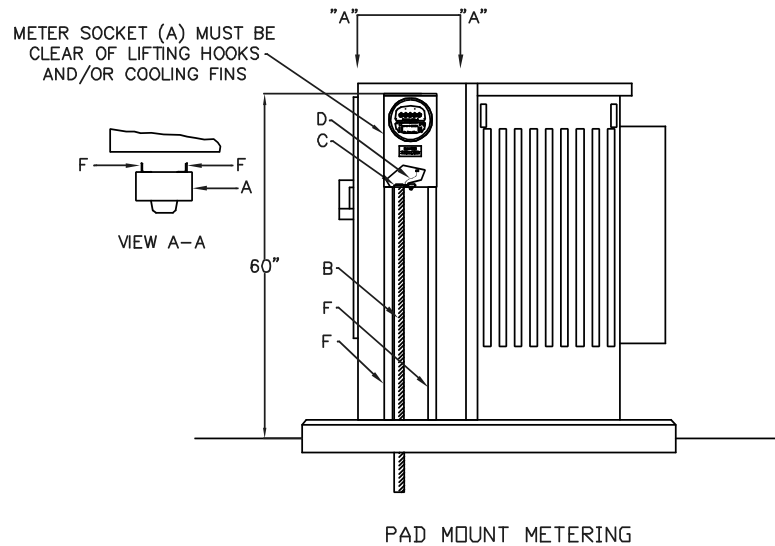
1.6 No customer equipment except service conductors shall be allowed in the compartments of a Company owned padmount transformer.

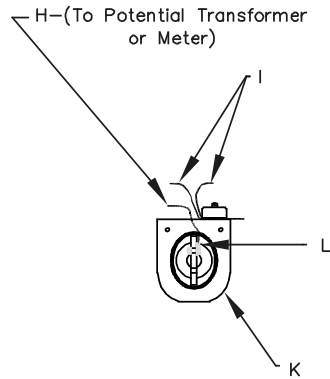
2. METERING LAYOUTS:**2.1 Front View:**

PAD MOUNT METERING - TYP. INSTALLATION

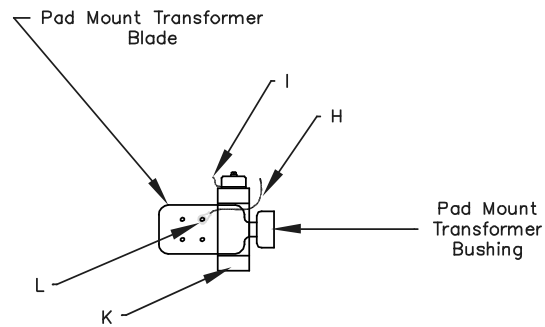
PAD - METERING ON BUILDING
TYP. INSTALLATION

2.2 Side View:

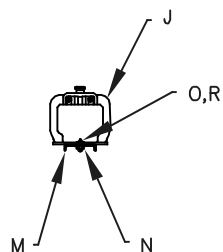
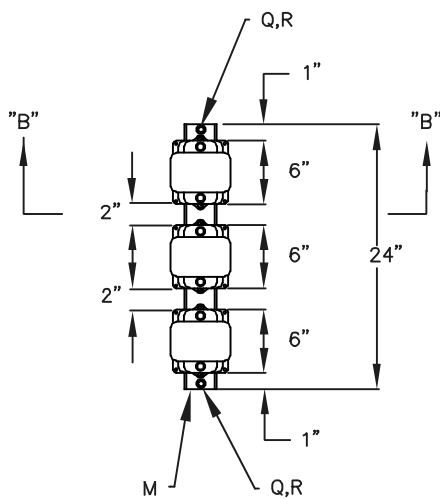


METER - INSTALLATION**Pad Mount Transformer****3. INSTRUMENT TRANSFORMER INSTALLATION:****3.1 Current Transformer (CT):**

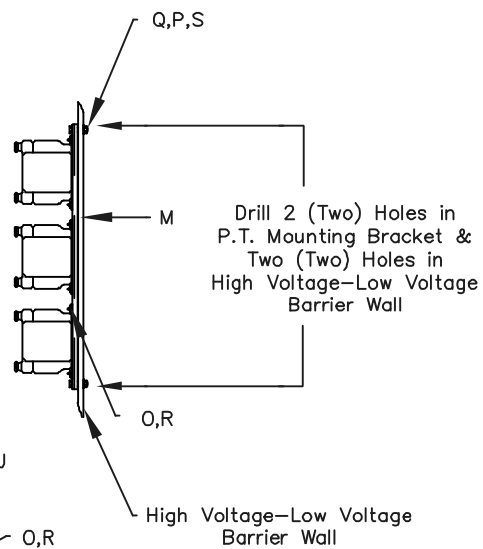
FRONT VIEW



SIDE VIEW

3.2 Potential Transformer (PT):

VIEW B-B





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4. MATERIALS:

Material Furnished and Installed by Customer			
Mark	Description	Quantity	Material Standard
A	Socket, Meter (Note 2)	1	63-400
B	Conduit, Rigid Metal, 1-1/2"	As Required	--
C	Bushing, Grounding, 1-1/2", #6 Lug	2	--
D	Wire, Bare, Stranded, #6 CU	As Required	--
E	Connector, Compression, Ground	1	--
F	Angle Iron, Galvanized, 10 Ga., 2" x 2" x Length (As Required) (Note 3)	2	--

Material Furnished and Installed by Company			
Mark	Description	Quantity	Material Standard
H	Cable, Control, 4 Cond. #12 CU 600V	As Required	8-690
I	Cable, Control, 4 Cond. #9 CU 600V	As Required	8-690
J	Transformer, Instrument, Potential	As Required	76-200
K	Transformer, Instrument, Current	As Required	76-100
L	Connector, Compression, Potential Tap (12-10 Str., Screw Size 1/2")	4	19-446
M	Channel, Steel, 24", Fig. 3 on M10-900	2	10-900
N	Nut, Spring, 1/4" X 20	6	10-900
O	Screw, Machine, 1/4" - 20 x 3/4"	6	60-008
P	Nut, Hex Head, 1/4" - 20	2	45-066
Q	Screw, Machine, 1/4" - 20 x 1	2	60-008
R	Washers, Flat, 1/4"	8	78-500
S	Washer, Spring, Lock, 1/4"	2	78-500

NOTES:

1. Beyond 20 feet, the customer shall provide a mounting stand adjacent to the secondary compartment.
2. Furnished by Company and installed by Customer.
3. See Section 2.2, Page 3, View A-A.