

Indianapolis Power & Light Company

Electric Service and Meter Manual

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220 UNDERGROUND SERVICE

A. Installation of Underground Services: Underground services will be installed in accordance with the following division of responsibilities:

1. Company Responsibilities

- a. The Company will furnish and install primary cable and conduit. In new projects, trenching and backfill is provided, if standard trenching equipment can be used.
- b. The Company will furnish and install all riser pole conduits for cables installed by the Company.
- c. The Company will locate, furnish and install the transformer pad and transformer. The concrete pad and transformer shall be set before any conductors are installed by the customer.
- d. The Company will furnish and install all secondary cable between the pad mount transformer and line side of metering equipment or junction cabinet, located on the outside of the building.
- e. The Company will make all connections in the pad mount transformer. The Company will make all connections in the service junction cabinet or junction box in accordance with 560K.

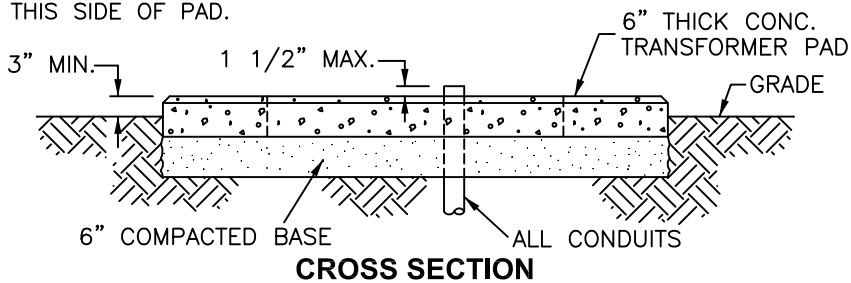
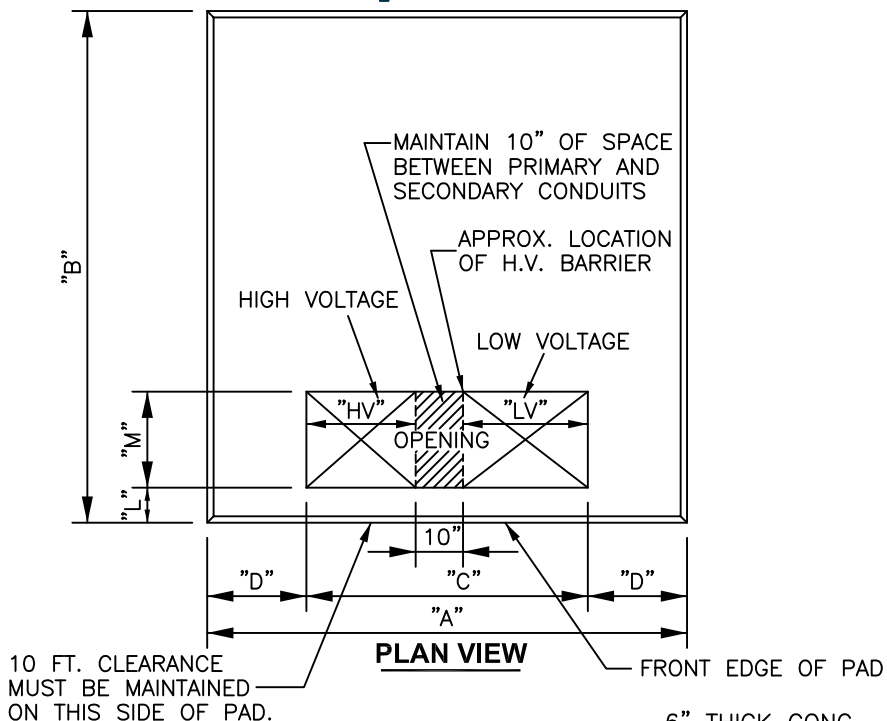
Section 220, cont.

- f. The developer or customer is responsible for non-standard trenching as follows (this is not an all inclusive list):
- Ground frozen deeper than 6 inches
 - Adverse terrain or ground conditions which may require the use of additional equipment to pull the trencher
 - Ground conditions, which may require the use of a backhoe to open and/or maintain the trench
 - Buried debris which requires the use of a backhoe
 - Digging under buried facilities
 - Boring under streets, driveways, trees, alleys, etc.
- g. The customer shall furnish secondary conduit and wire or cable between the riser pole or pad mount transformer and any customer owned equipment whether inside or outside. ●

Exception: The Company will install secondary cable to an outdoor customer owned meter center, meter fitting, or an outdoor customer owned switch if the switch is an integral part of a meter center or meter fitting. The Company will make the actual terminations to the customer owned equipment in this case. The customer shall furnish and install a pull string for IPL use.

Metallic conduit shall not enter a transformer.

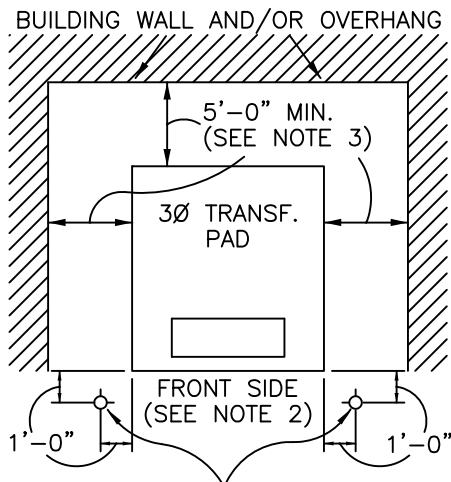
- h. Customer shall furnish and install posts to protect transformers and other facilities as specified by the Company when exposed to vehicular traffic. Each post shall be a minimum of 7'-0" long and 6 inch diameter steel pipe. The posts shall be concrete filled, set in concrete and extend 4'-0" above grade. Contact the Company for approval of post arrangement.
- i. The customer, in some cases, may elect to install the service lines from the Company's secondary distribution system to the meter fitting or junction box. Before installations of this type, the contractor shall submit plans of the proposed installation to the Engineering Department for approval, and enter into an agreement with the Company prior to installation.



STOCK NO.	KVA	TRANSF. WEIGHT	A	B	C	D	L	M	LV	HV
1703-506	75-300	5800	75	80	44	15 1/2	5 1/2	15	19 1/2	14 1/2
1703-507	500-1000	10,100	84	84	44	20	5 1/2	15	19 1/2	14 1/2
1703-508	1500-2500	12,600	84	84	48	18	9	17	23 1/2	14 1/2

ALL DIMENSIONS ARE IN INCHES

NOTES:



7' CONCRETE FILLED 6" STEEL POST 4'-0" ABOVE GRADE, SET IN CONCRETE. (SEE NOTE 1)

1. CUSTOMER SHALL FURNISH AND INSTALL POSTS TO PROTECT TRANSFORMER WHEN EXPOSED TO VEHICULAR TRAFFIC.
2. FOR OPERATION OF THE TRANSFORMER WITH A HOTSTICK, 10 FT. CLEARANCE SHALL BE MAINTAINED ON FRONT SIDE OF PAD, SEE SECTION 225.
3. IF ADJACENT TO WINDOW, DOOR, COMBUSTIBLE WALL OR OVERHANG, THE MINIMUM DISTANCE SHALL BE TEN FEET.
4. ALL BACKFILL UNDER PAD TO BE THOROUGHLY COMPACTED IN SOLID LAYERS NOT TO EXCEED 6 IN.
5. TRANSFORMER PAD SHALL NOT BE SET ON PAVEMENT.
6. METALLIC CONDUITS SHALL NOT BE INSTALLED IN PAD MOUNTED TRANSFORMERS.
7. NO CUSTOMERS GROUNDING GRIDS OR GROUNDING ELECTRODE CONDUCTORS MAY BE CONNECTED AT PAD MOUNTED TRANSFORMER LOCATIONS.
8. THE TRANSFORMER PAD SHALL BE WITHIN 12' OF PAVEMENT
9. MAXIMUM - 8 CONDUITS, ONE CIRCUIT PER CONDUIT. REFER TO SECTION 220A3c EXCEPTION
- ▶ 10. THE COMPANY WILL FURNISH AND SET THE PRECAST TRANSFORMER PAD. PAD AND TRANSFORMER SHALL BE SET BEFORE ANY CONDUCTORS ARE INSTALLED BY THE CUSTOMER. THE DIMENSIONS ARE FOR LOCATING THE PAD AND CONDUIT.

CONCRETE PAD FOR THREE PHASE TRANSFORMER 75-2500 KVA