

Drawings Required for CPS Energy Padmount Transformer Service

*****Drawings must be SEALED ENGINEERED DRAWINGS*****
*****ANY revisions done to a SEALED DRAWING need to be Re-Sealed*****

X-Y Dimensions

- Transformer location detail with x-y dimensions from a permanent fixed structure to the edge of transformer SLAB. (Ex: Building, Riser pole)

Transformers slabs within 10' of any drive-able surface i.e parking lots will need bollards as per CPS Underground Engineering Department.

Utility Site Plan

- Desired Route of Overhead Primary
- Riser Pole Location (inline risers typically not allowed)
- Desired Route of Underground Primary ductbank & manholes
- Detailed transformer location
 - Show Perimeter Clearance (Distance from drive-able areas ex: drive-ways, roadway) to determine if bollards are needed
 - Dimension from building/structures
 - Show side the transformer doors will open
- Meter Location (dimension if other than side of transformer)
- Location of main distribution switch and/or tap-box and secondary routes from transformer

Electrical One-line Diagram

- Secondary Cable
 - Size, Number per phase, Total Number of Secondary Cables, Type (Cu or Al), Neutral Size
- Secondary exiting transformer by:
 - Conduit (number & size), number of spares
 - Wireway Size
- Cable Tap-Box (Customer to provide cut sheet)
- Auto Throwover Switch for Generator Installation (Customer to provide cut sheet)
- Meter Location

Electrical Load Summary

- Building Square Footage
- Hours and days of operation
- Customer's Service Voltage
- Load Analysis in kVA units, not kW
 - Existing Load if applicable, A/C & Heat, Lighting, Motor Load, Receptacles, Other, Total kVA & amperage
 - Unusual loads require discussion