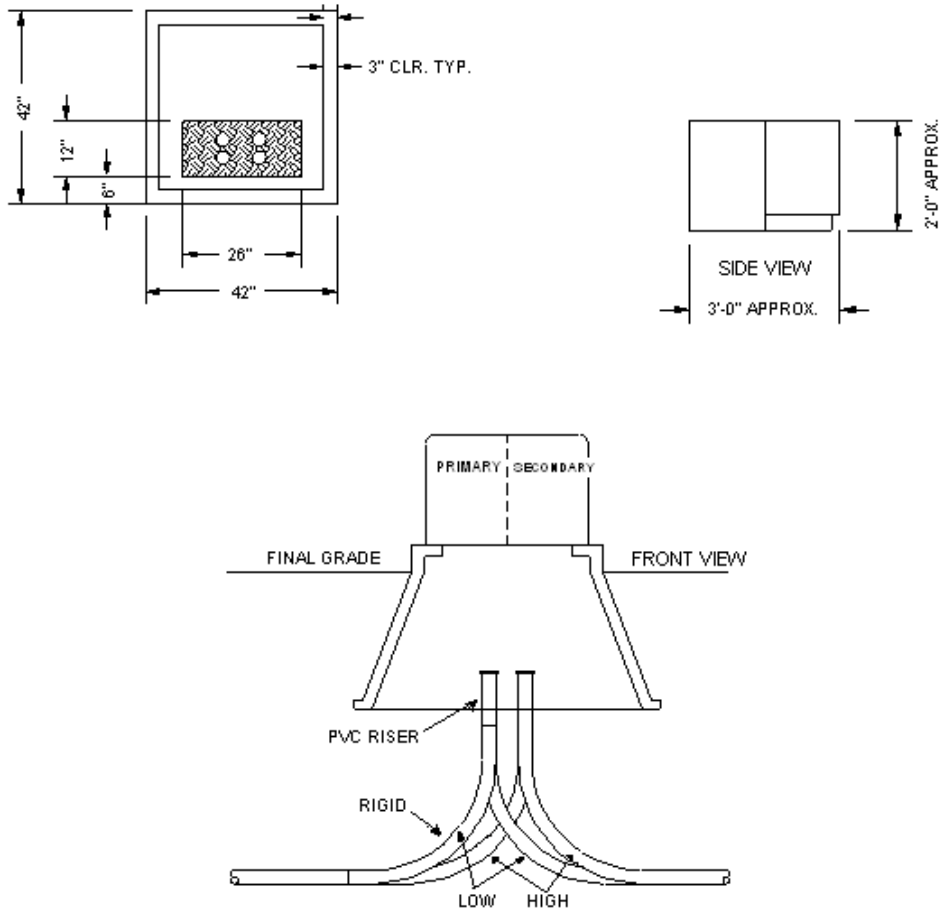


SINGLE-PHASE PAD MOUNTED TRANSFORMERS



Notes:

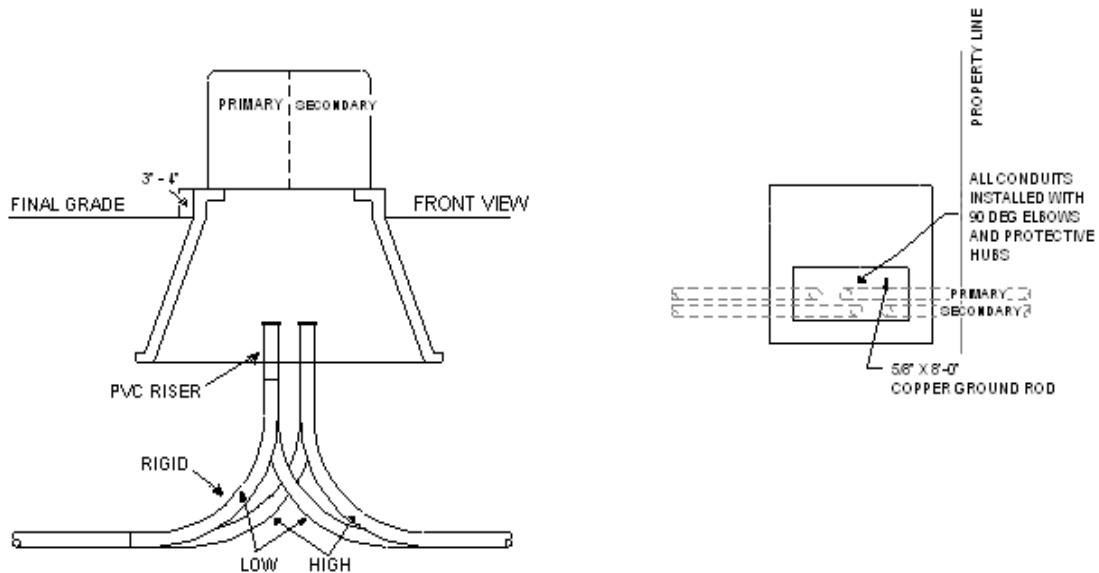
1. The developer will supply and install ground rods, and conduit.
2. Springville City Power will supply transformer pads, transformers, and conductors.
3. Conduit bonding bushings are required on all rigid metallic conduit. The bonding bushing must be properly grounded with 2/0 Cu.
4. Fill material under the primary pad or base shall be road base meeting stat specifications and shall be compacted to 95%. Road base fill shall extend from the bottom of the trench to the transformer pad and shall extend 3 inches on the back and sides and 1 inch on the front.



**SPRINGVILLE CITY
ELECTRICAL REQUIREMENTS
& STANDARDS MANUAL
PAD MOUNTED TRANSFORMERS**

ELECTRIC 5.1
PAD MOUNTED TRANSFORMERS
SCALE: NONE
DATE: 8.28.07
REV:
REV DATE:

SINGLE-PHASE TYPICAL CONDUIT INSTALLATION FOR RESIDENTIAL SUBDIVISIONS



Notes:

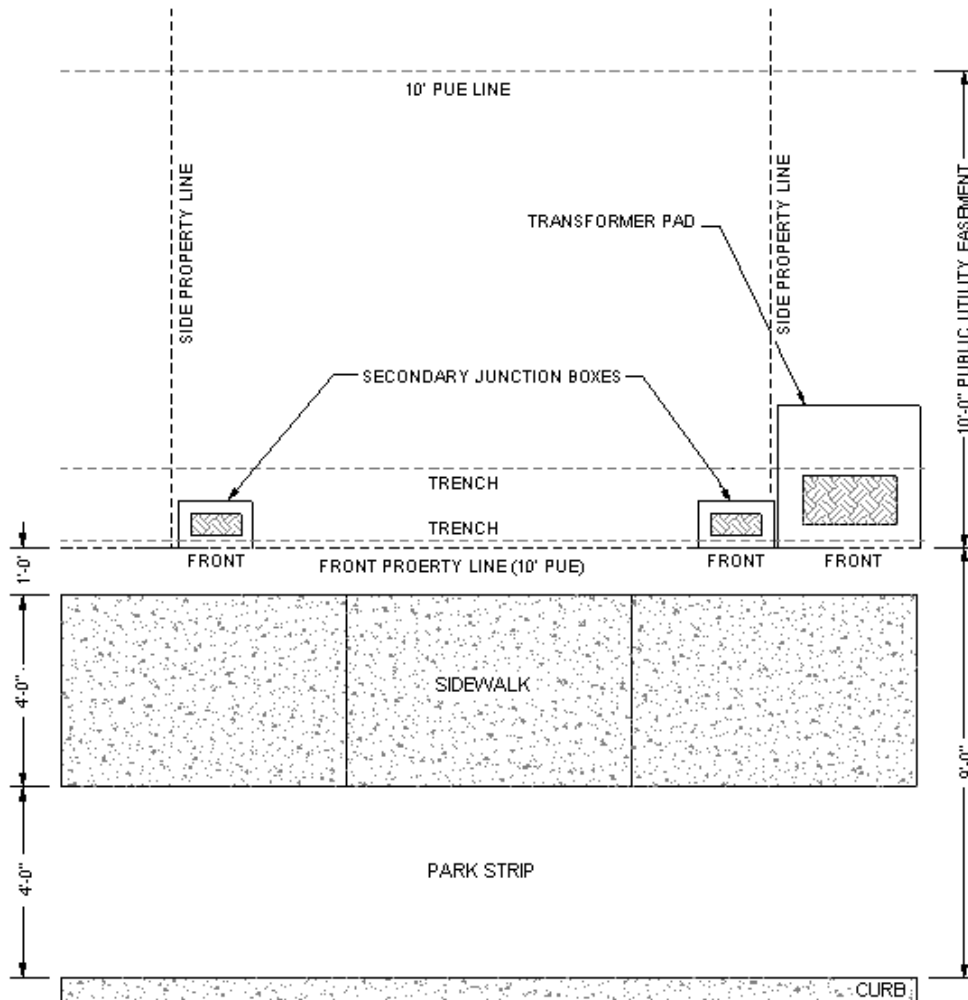
1. The developer is responsible for the installation of conduit system as designed and specified.
2. All stub outs must point in the general direction of the front corner of the building and must extend beyond the property line of the lot being served.
3. For residential 200 Amp services use 2 ½ inch conduit and 3 inch conduit from transformers to secondary junction boxes.
4. Conduit for primary cable shall be a minimum of 3 inch. The developer is required to coordinate with the Power Department for the specific conduit sizes required.
5. Conduit sizes from 2 to 4 inches must be 4 feet deep and 6 inch conduit must be 6 feet deep.
6. Rigid conduit shall be used on riser poles or where otherwise specified by the Springville Power Department.
7. All 6 inch conduits shall use rigid steel 90's and fittings and must be wrapped.
8. All secondary conduits shall be stubbed 10 feet beyond the transformer pad where required for future extension of conduit system.
9. In transformer applications all primary conduits must be marked with red paint.



SPRINGVILLE CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL PAD MOUNTED TRANSFORMERS

ELECTRIC 5.2
PAD MOUNTED TRANSFORMERS
SCALE: NONE
DATE: 8.28.07
REV:
REV DATE:

SINGLE-PHASE TRANSFORMER PAD OR SECONDARY JUNCTION BOX LOCATION WITH PLANTER AND SIDEWALK



Notes:

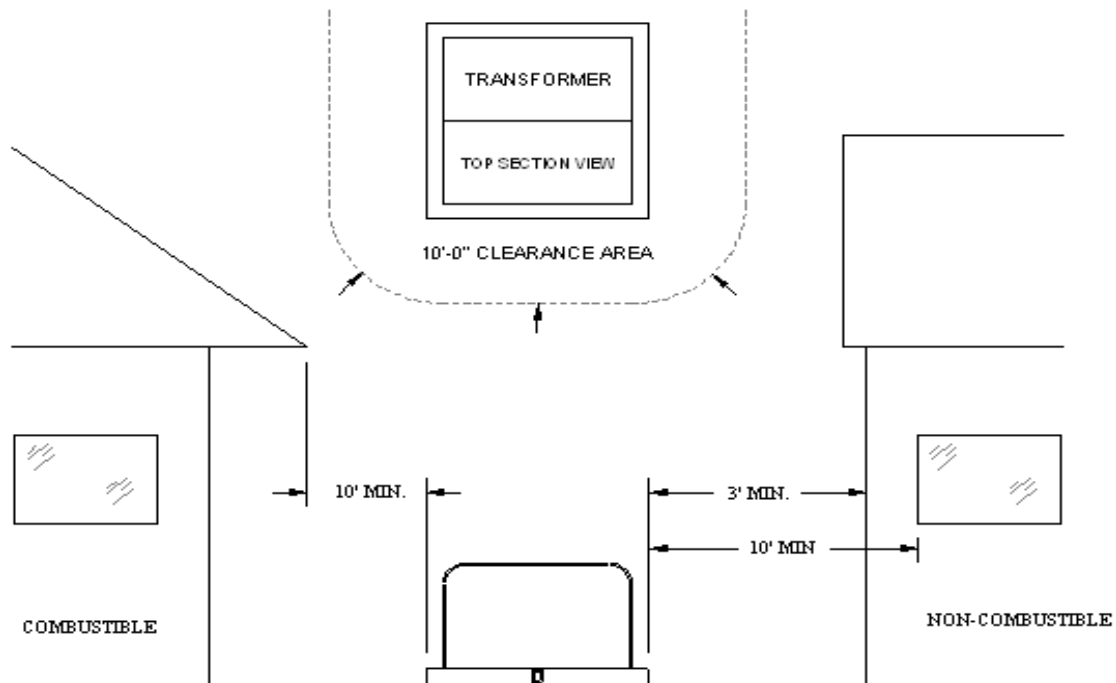
1. Transformers and secondary junction boxes are to be offset from the property line on either side.
2. Transformers and secondary junction boxes are to be located as per the electrical design provided by Springville City.
3. Transformer and other equipment must be installed so that the front of the equipment faces the sidewalk. No obstructions are allowed in front of Springville City's power equipment.



SPRINGVILLE CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL PAD MOUNTED TRANSFORMERS

ELECTRIC 5.3
PAD MOUNTED TRANSFORMERS
SCALE: NONE
DATE: 8.28.07
REV:
REV DATE:

SINGLE-PHASE AND THREE-PHASE PAD MOUNTED TRANSFORMER CLEARANCES



Notes:

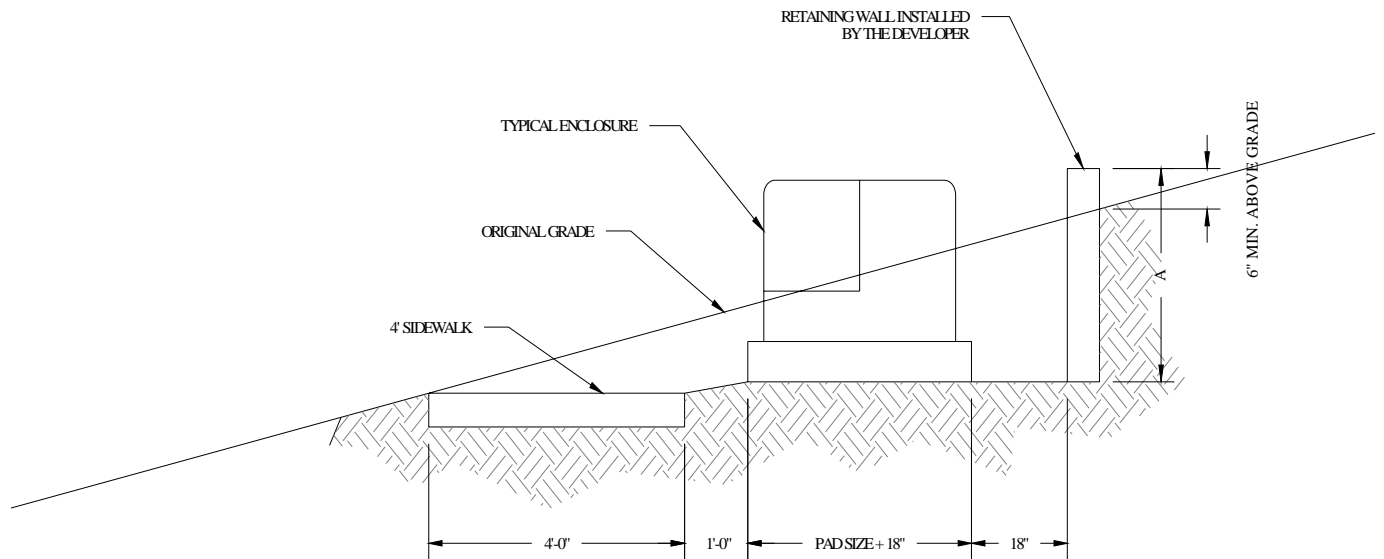
1. A 10 foot clear area must be maintained in front of the equipment to allow for the use of hot sticks.
2. The front of pad-mounted transformers must be located away from building walls or other barriers to allow for safe working practices.
3. A 10 foot clearance is required from any transformer surface if the structure is of combustible material.
4. A 3 foot clearance is required to any non-combustible building surfaces that do not have any openings closer than 10 feet.
5. Consult the national electric safety code, NEC, state and local building and fire codes for additional requirements.
6. Consult the Springville Power Department for additional clearances that may be required for doors, windows, fire escapes, air vents, etc.
7. When pad-mounted transformers or other equipment is installed where it may be struck by a motor vehicle the customer will install and maintain Springville Power Department approved barrier posts to protect the equipment.



SPRINGVILLE CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL PAD MOUNTED TRANSFORMERS

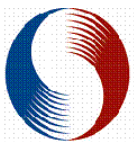
ELECTRIC 5.4
PAD MOUNTED TRANSFORMERS
SCALE: NONE
DATE: 8.28.07
REV:
REV DATE:

EQUIPMENT EROSION PREVENTION



Notes:

1. When it becomes necessary to notch-out or fill a slope to install an enclosure or transformer the cleared area should be of sufficient size to accommodate the enclosure and shorings. The front of the pad shall be placed 2 inches maximum above the sidewalk.
2. The area under and behind the pad must be level and compacted as per the trench specification.
3. A retaining wall is required if dimension "A" is greater than 12 inches.
4. Side retaining walls are also required if dimension "A" is greater than 18 inches. The retaining wall shall be 6 inches above the existing grade and 18 inches from each side and the back of the enclosure.
5. All grading shall be performed by the developer.
6. Contact the Springville Power Department if assistance is required.



Springville
Community. Service. Reliability.

SPRINGVILLE CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL PAD MOUNTED TRANSFORMERS

ELECTRIC 5.5

PAD MOUNTED TRANSFORMERS

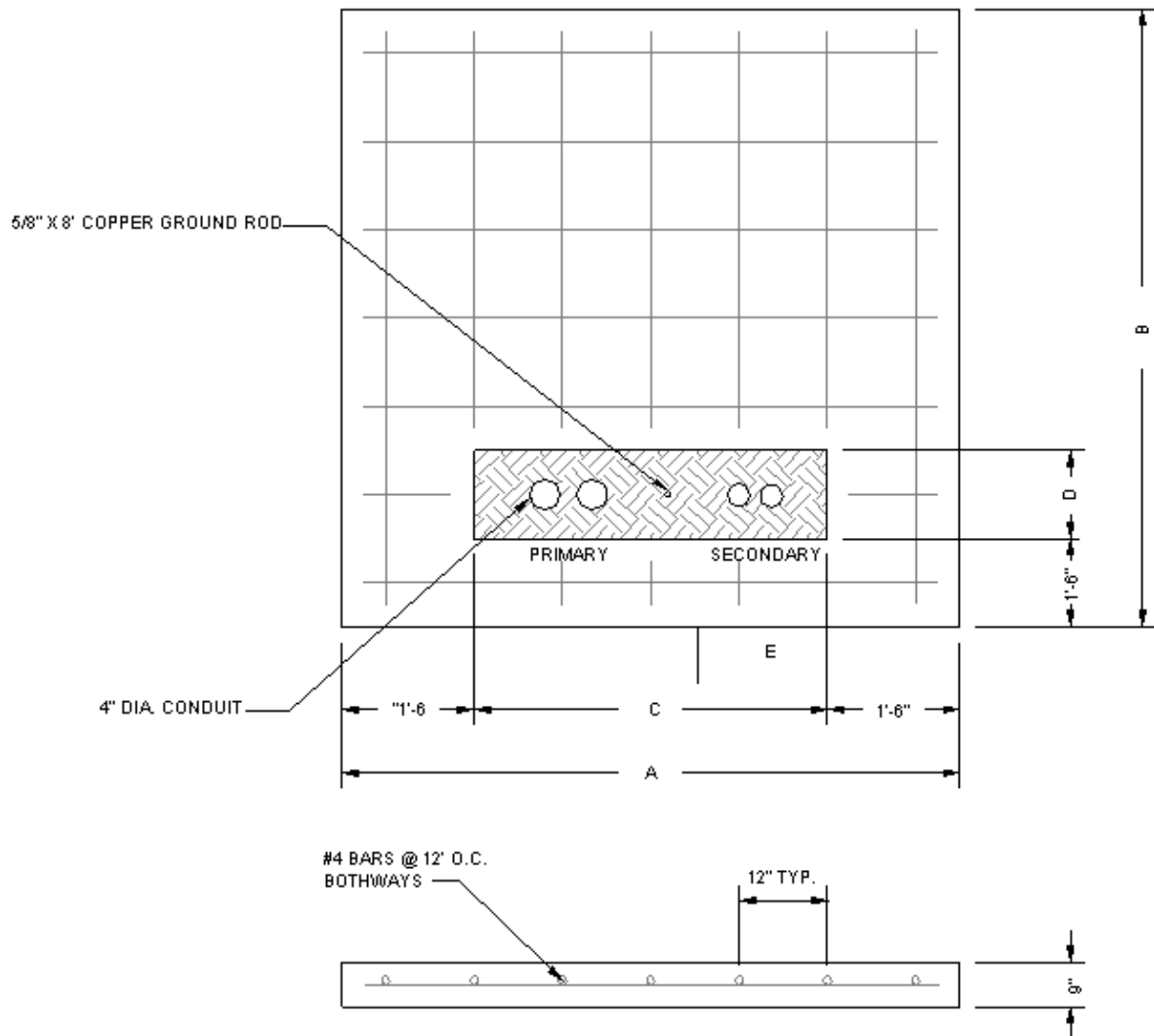
SCALE: NONE

DATE: 8.28.07

REV:

REV DATE:

THREE-PHASE TRANSFORMER CONCRETE PAD WITHOUT CT RACK



Transformer Pad Dimensions

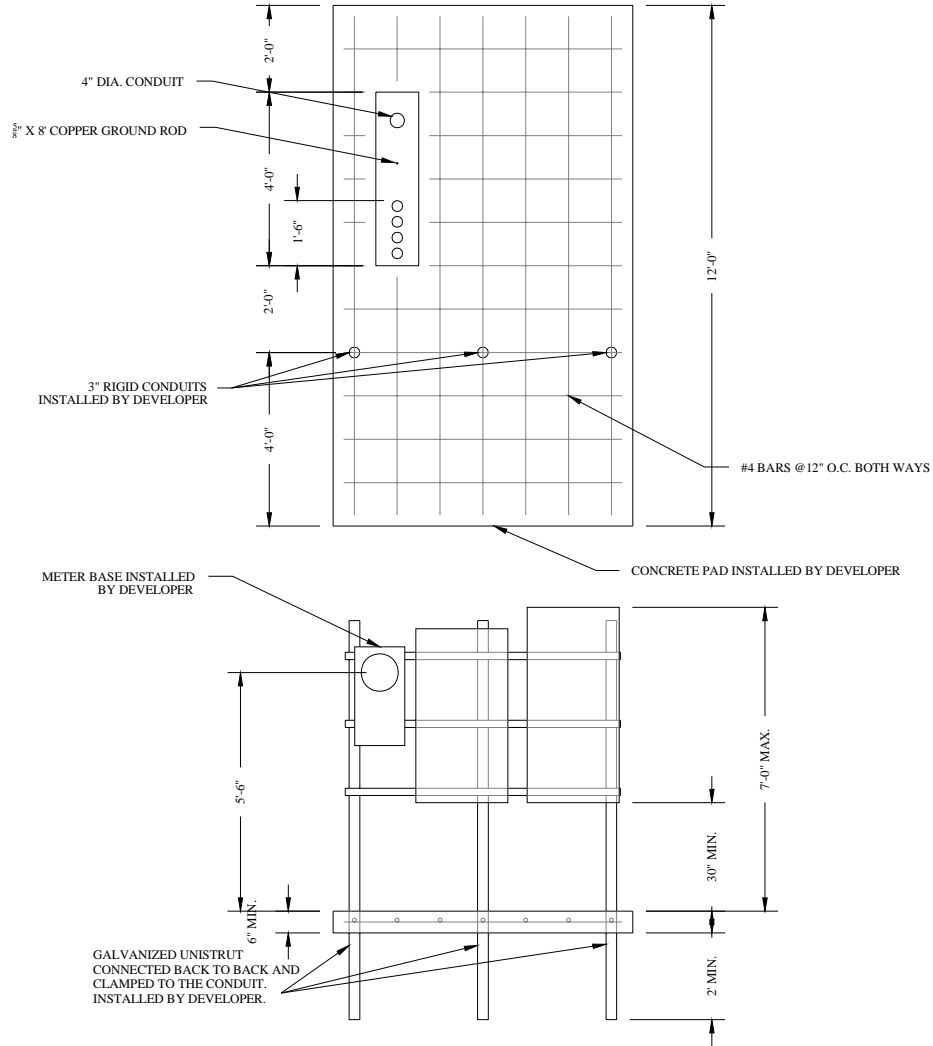
Transformer Rating	Dimensions				
	A	B	C	D	E
75 – 500 KVA	84"	84"	42"	15"	20"
750 – 2500 KVA	96"	96"	60"	16"	30"



SPRINGVILLE CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL PAD MOUNTED TRANSFORMERS

ELECTRIC 5.6
PAD MOUNTED TRANSFORMERS
SCALE: NONE
DATE: 8.28.07
REV:
REV DATE:

THREE-PHASE TRANSFORMER PAD WITH METERING STATION



Notes:

1. Springville City will not pull or terminate commercial services from the secondary side of the transformer.
2. The developer shall terminate all cables in the CT cans.
3. The contractor shall terminate all cables they run and provide lugs for the transformer secondary.



SPRINGVILLE CITY ELECTRICAL REQUIREMENTS & STANDARDS MANUAL PAD MOUNTED TRANSFORMERS

ELECTRIC 5.7
PAD MOUNTED TRANSFORMERS
SCALE: NONE
DATE: 8.28.07
REV:
REV DATE: