



Taylor County RECC - Standard Single Phase Underground Primary Installation New Construction Guidelines

Rev 10/2/24

Note:

Below items are applicable only for a single site, single phase Underground Primary(UGP) installation – for three phase and subdivision installs consult w/ Taylor County RECC(TCRECC) for site specific instructions.

1. Underground Primary(UGP) is designed and approved by TCRECC on a per site basis.
2. The Consumer/Builder will provide the ditch, conduit and pull string/poly pull line(line will be rated at a minimum of 150lbs). TCRECC will furnish the UG marking tape and the ground sleeve that the Consumer/Builder will install - see Warehouse Hours below for instruction.
3. Consumer/Builder will provide a straight ditch with conduit from pole to ground sleeve.
4. Only two(2) elbows shall be used per pull, to be long sweep type – 36”, Schedule 80.
5. Primary ditch depth is to be minimum 42”. If rock is encountered immediately consult with the Staking Engineer who designed the job in order to obtain the special rock ditch instructions.
6. ***As aside – Secondary/Service ditch depth and all other secondary side requirements will be dictated by the local State Electrical Inspector. The Staking Engineer or office Engineering Department staff can supply the contact info for the State Inspector.
7. All conduit in the trench shall be glued and contain the pull string.
8. All conduit in the trench shall be 2” electrical grade Schedule 40 unless special circumstance. Special circumstances will require Schedule 80 conduit and can include:
 - a. Any area subject to vehicular traffic
 - b. The first(ground level) 10’ section at the pole
 - c. Any special situation deemed necessary by the Staking Engineer.
9. At the pole:
 - a. DO NOT TRENCH/INSTALL CONDUIT prior to pole being in place
 - b. Do not trench/route conduit to pole until TCRECC has installed the lowest level Conduit Standoff Bracket on the pole (Bracket will serve as ‘target’ for the ditch)
 - c. Elbow exit is to be approximately 6” off the pole face so as to line up vertically with the standoff bracket.
 - d. Install and glue the above mentioned ground level 10’ section of Schedule 80 conduit at the long sweep elbow junction and attach to the Standoff Bracket.
 - e. Install a cover on the conduit opening at the pole.
 - f. TCRECC crews, at the time of install, will route the conduit up the pole.
10. At the transformer location:
 - a. The Staking Engineer will dictate orientation(front side) of transformer.
 - b. TCRECC crews will supply and mount the transformer on the Consumer/Builder installed ground sleeve.
 - c. TCRECC crews will make all connections inside the transformer
 - d. The ground sleeve is to be placed on a 6” - #57 gravel base, gravel to be supplied by the Consumer/Builder.
 - e. The ground sleeve is to be level and placed such that 4-6” is exposed above FINAL grade.
 - f. Install conduits to expose ~12” of conduit above the grade of the #57 gravel base.
 - g. Install covers on the conduit openings.

h. **If there are any plans for future development, those conduits need to be installed at this time – make sure to inform the Staking Engineer of any future plans.

11. **TCRECC WILL INSPECT THE DITCH PRIOR TO BACKFILLING.** After installation of conduit, ground sleeve, and pull string call TCRECC to schedule a “DITCH INSPECTION”. If the ditch is not inspected no conductor will be installed and the ditch will have to be opened back up for the required inspection.
12. In any case where TCRECC can not pull wire through conduits, the Consumer/Builder will bear the responsibility to rectify(glue joint comes loose etc).
13. Warehouse Hours – hours are generally 8a-5p est, Monday through Friday. Call and ask to speak with the Warehouse to coordinate pick up of the warning tape and below ground sleeve. As a rule, next day pick up can be expected.

Below Ground Transformer Sleeve



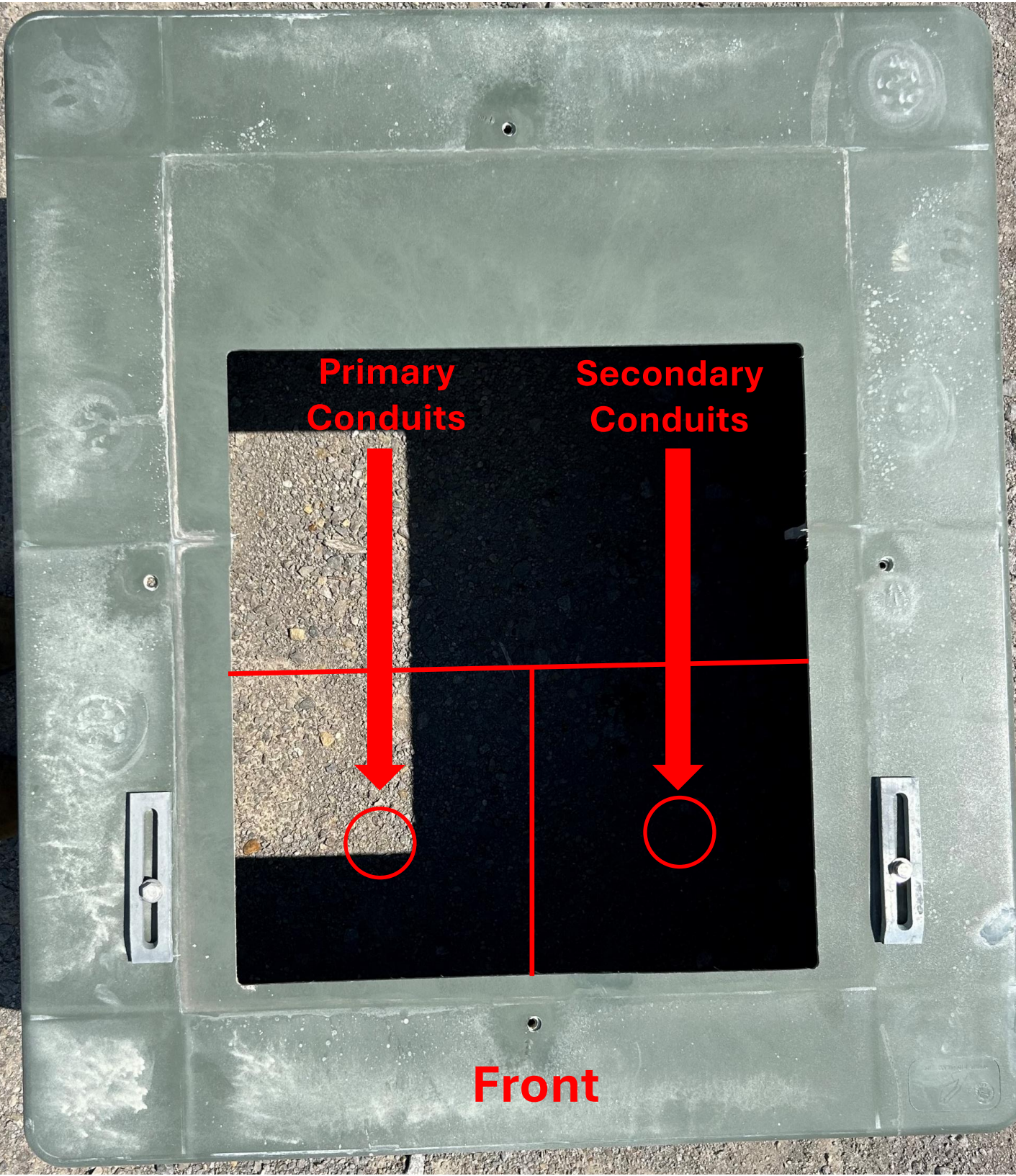
Approximately 42" x 50" x 24"

Front

**Primary
Conduits**

**Secondary
Conduits**

Front





34641

TAYLOR COUNTY RECC
100095

Transformer to be installed by TCRECC



**Top of Sleeve ≈
4" - 6" above
FINAL grade**

25



**Conduit Standoff
Bracket to be
installed by TCRECC-
Pole and bracket to
be placed PRIOR to
conduit install**

**First 10' section of
conduit above ground
is to be Schedule 80**





Taylor County RECC Primary Ditch Specifications

- *Ditch fill is to be clean and free of sharp rocks
- * "Caution Buried Electric Line" tape to be in all primary ditches

