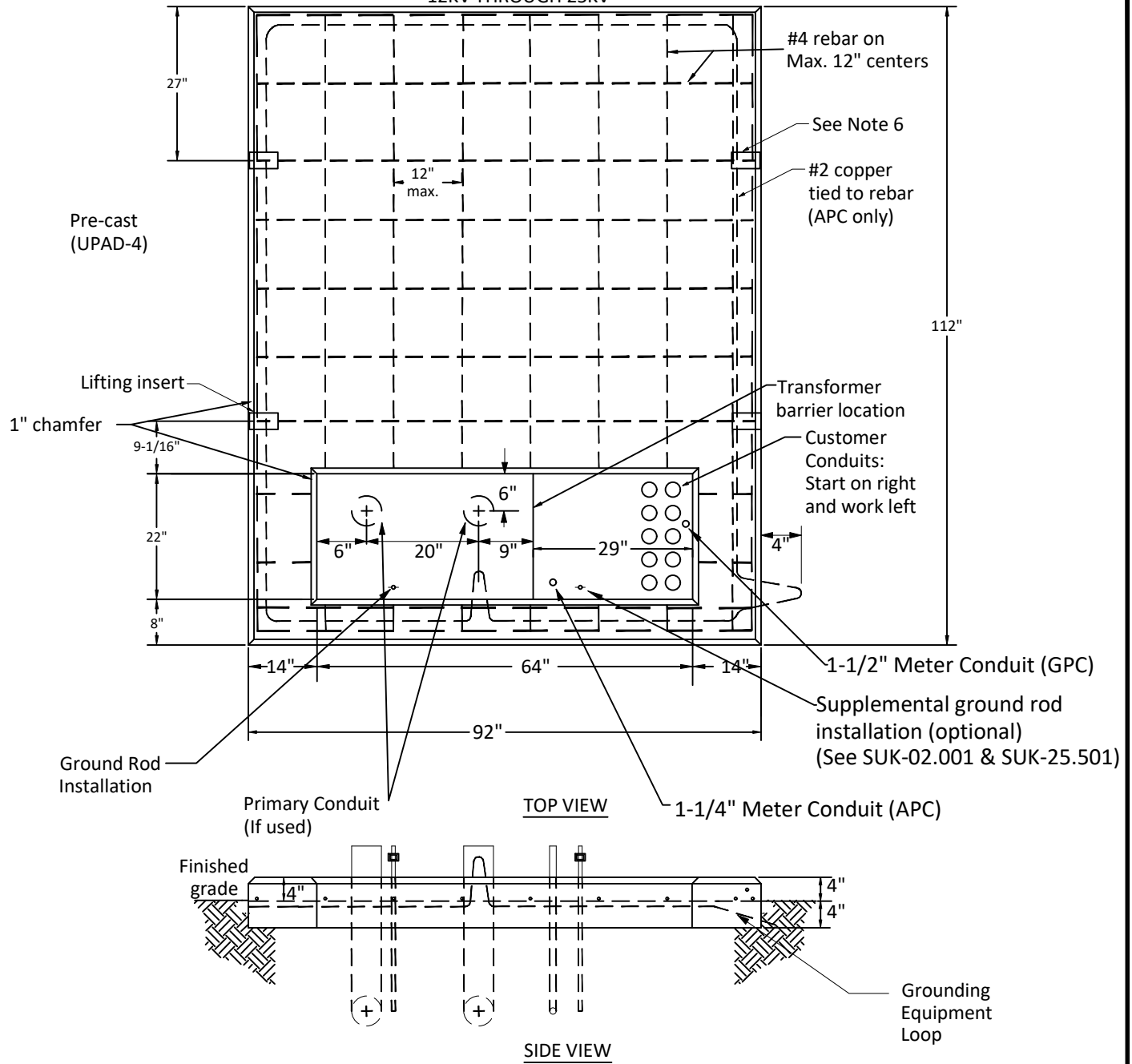


**STANDARD PAD FOR 500 KVA THROUGH 3750 KVA LOOP FEED
AND 500KVA THROUGH 2500KVA RADIAL STEP-UP/DOWN PAD MOUNTED TRANSFORMER
12KV THROUGH 25KV**



NOTES:

1. Maintain 2 in. of clear concrete between rebar and all outer surfaces.
2. Reinforce with No. 4 rebars with a 12"x 12" grid, 4 in. below top of pad except as shown above.
3. Concrete shall have a minimum ultimate 28 day compressive strength of not less than 3,000 psi, pad shall be cured not less than 72 hours.
4. Average weight of pad is 5,800 pounds.
5. Mounting surface shall be level, smooth and uniform with minimal irregularities.
6. Lifting insert for 1 in. diameter threaded bolt, 4" depth, Meadow Burke FX-14 or equivalent, 4 locations (omit if poured in place).

SUBJECT **UNDERGROUND DISTRIBUTION**

DETAIL **EQUIPMENT PADS AND VAULTS - STANDARD PAD FOR 500KVA THROUGH 3750KVA LOOP FEED AND
500KVA THROUGH 2500KVA RADIAL STEP-UP/DOWN PAD-MOUNTED TRANSFORMER, 12KV THROUGH 25KV**

Date **02-26-99**

REVISED **09-25-00, 01-26-02, 01-09-07, 12-20-13**

03-26-15, 04-05-18, 10-23-18, 01-09-19



A- SUH16001

1. (APC only) Grounding is to be provided by enhanced grounding consisting of 100 ft. of #2 copper 7 strand conductor installed in the bottom of the trench or 32 ft. stacked sections of ground rod installed in both the primary and secondary sides of the concrete pad window. The ground rod locations are not dimensioned to allow maximum flexibility in locating the ground rods, but the separation between ground rods should be as great as possible.
2. The transformer pad should NOT be located near: fire escapes, doors, windows, ventilation ducts, within 4 ft. of fire hydrants, or under building overhangs (GPC requires 10 ft from buildings and 14 ft from doors and windows.). If possible the pad should be installed on ground that slopes away from the building. There should be no above ground obstructions such as air conditioners, walls, shrubbery, trash bins, etc. in front of the transformer location. The transformer location must be accessible by large truck or crane.
3. There must be clear area around the transformer pad as detailed in the drawing below. The 10' X 10' area at the rear of the pad is necessary for the proper operation of the bayonet fuse of the transformer.
4. See SUK-37.002 for operating clearances.
5. The concrete shall develop a minimum compression strength of 3000 PSI within 28 days. Pads shall be placed in pad form within 1-1/2 hours after mixing and shall be cured a minimum of 72 hours prior to transformer installation.
6. All surfaces shall be smooth finished and the top surface shall be flat. All top outside edges shall be beveled one inch with no sharp edges.
7. (APC only) A #2 copper ground bus wire shall be cast in the concrete pad as detailed in attached drawing. The #2 copper wire shall be tied or clamped to the reinforcing steel bar to assure a good electrical connection. A four inch (4") loop of the ground bus wire shall extend from the concrete pad into the cable window of the pad and from the right hand side of the pad for connection to the system ground. The #2 copper wire shall be bare soft drawn solid or 7 strand.
8. Distribution Engineering shall be the final authority in the interpretation of this specification.

SUBJECT **UNDERGROUND DISTRIBUTION**

DETAIL **EQUIPMENT AND PADS - POURED IN PLACE CONCRETE 3 PHASE PAD**

150 KVA - 2500 KVA

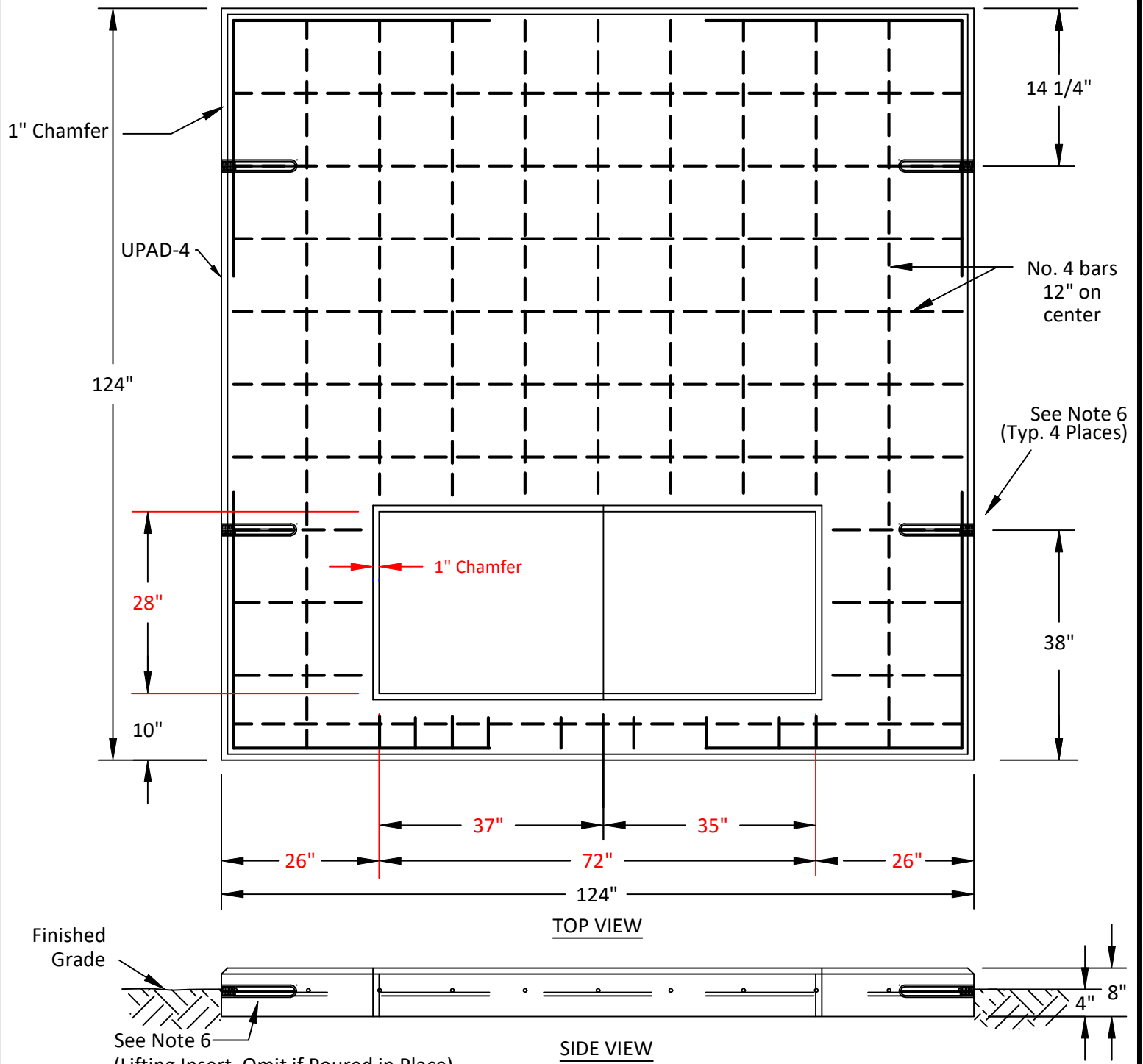
Date **04-05-18**

REVISED _____



A- **SUH16002**

SUH-16.002



- NOTES:
1. Service duct shall be located in the extreme right side of the secondary compartment.
 2. Reinforce with No. 4 bars with a 12" x 12" grid, 4 in. below top of pad except as shown above.
 3. Concrete shall have a minimum ultimate 28 day compressive strength of not less than 3,000 psi, pad shall be cured not less than 72 hours.
 4. Average weight of pad is 9,675 pounds.
 5. Mounting surface shall be level, smooth and uniform with minimal irregularities.
 6. Lifting insert for 1in. diameter threaded bolt, 12" depth, Meadow Burke FX-9 or equivalent, 4 locations.
 7. Maintain 2 in. of clear concrete between rebar and all outer surfaces.

SUBJECT **UNDERGROUND DISTRIBUTION**

DETAIL **EQUIPMENT PADS AND VAULTS - STANDARD PAD FOR 3750 KVA AND LARGER STEP UP/DOWN OR 46 KV TRANSFORMER**

Date **02-26-99**

REVISED **09-25-00, 01-26-02, 09-05-05, 01-09-07
12-20-13, 3-26-15**

 Southern Company

A- **SUH17001**

SUH-17.001