1400 **UNDERGROUND TRANSFORMERS**

3/13/2023

| ~ | F1A | Fuse Schedule – Padmount Transformers |
|--------|-----------|---|
| ~ | HB16,HB32 | Hillside Barrier |
| ~ | UID1 | Padmounted Equipment Identification Tags & Safety Signs |
| \sim | UT2 | 1Ø Padmount Transformer Radial Feed |
| С | UT4 | Open Y - Open Δ Padmount Transformer Installation |
| ~ | UT21,UT22 | 1Ø Padmount Transformer Assemblies, Loop Feed |
| ~ | UT24-UT28 | 1Ø Pad Xfmr Assembly, Radial or Loop w/ Feed-Thru Bushing |
| \sim | UT30-UT32 | 3Ø Padmount Transformer Assemblies |
| ~ | UTB | 1Ø Padmount Transformer Boxpad (Basement) |
| ~ | UTP1 | 1Ø Transformer Pad – 25 to 75kVA |
| ~ | UTP2 | 1Ø Transformer Pad – 100kVA |
| ~ | UTP3 | 1Ø Transformer Pad Orientation & Conduit Installation |
| ~ | UTP4 | 3Ø Transformer Pad – 75 to 1500kVA |
| \sim | UTP5 | Precast Pad & Vault for 3Ø Transformers |
| \sim | UTP6 | 3Ø Transformer Pad Orientation & Conduit Installation |
| ~ | UTP9 | Typical Barrier Installation to Protect Padmounted Equipment |

- Ν New Standard
- Redrawn Standard R
- Changed Standard No Change С
- \sim

| | 1ø Padmounted Transformers | | | | | | | | | |
|------------------|-----------------------------|---------|-------------------|----------------|----------------|----------------------------------|-----|--|--|--|
| | Transformer Stock Number | | Trans Primary | forme Prote | | Minimur Upstream Fuse Size | OH | | | |
| | BM | BR | | | | | | | | |
| kVA | 240/120 | 480/120 | Bayonet Fuse No | S/N | Isolation Link | Size | S/N | | | |
| 25 ^{*1} | 1317 | | 4000358C05 (8 A) | 653 | 3001861A02 | 25 A | 683 | | | |
| 50 | 1318 | 2016 | 4000358C08 (15 A) | 654 | 3001861A03 | 30 A | 684 | | | |
| 75 | 1320 | | 4000358C10 (25 A) | 655 | 3001861A05 | 65 A | 687 | | | |
| 100 | 1322 | | 4000358C10 (25 A) | 655 | 3001861A05 | 65 A | 687 | | | |

3ø Padmounted Transformers

| | Transformer Stock Number | | | Transformer Primary Protection | | Minimum Upstream OH Fuse ^{*2} | |
|------|-----------------------------|---------------|---------------------------------|-----------------------------------|-------------------------|--|-----|
| kVA | BL 208/120 | BW 480/277 | Bayonet Fuse No | S/N | Isolation Link | Size | S/N |
| 75 | 1328 | 1337 | 4000358C05 (8 A) | 653 | 3001861A02 | 25 A | 683 |
| 150 | 1329 | 1338 | 4000358C08 (15 A) | 654 | 3001861A03 | 30 A | 684 |
| 300 | 1331 | 1340 | 4000358C10 (25 A) | 655 | 3001861A05 | 50 A | 686 |
| 500 | 1332 | 1341 | 4000358C12 (50 A) | 656 | 3001861A06 | 100 A | 689 |
| 750 | 1333 | 1342 | 4000358C12 (50 A) | 656 | 3001861A06 | 100 A | 689 |
| 1000 | 1334 | 1343 | 4000358C14 (65 A) ^{*3} | 657 | 3001861A07 | 100 A ^{*4} | 689 |
| 1500 | | 1344 | 4000353C17 (140 A) | 658 | 3001861A05 | 100 A ^{*4*5} | 689 |
| | | | | | ELSP Fuse ^{*6} | | |
| 2000 | | 2164 | 4038361C05C (125 A) | 2976 | * CBUC08250D100 | See Syste | I |
| 2500 | | 1345 | 4038361C05C (125 A) | 2976 | CBUC08250D100 | Engineerii | ng |

Spare fuses are kept in each transformer. It is the responsibility of the person using the spare fuse to replace it. Fuses are in free issue.

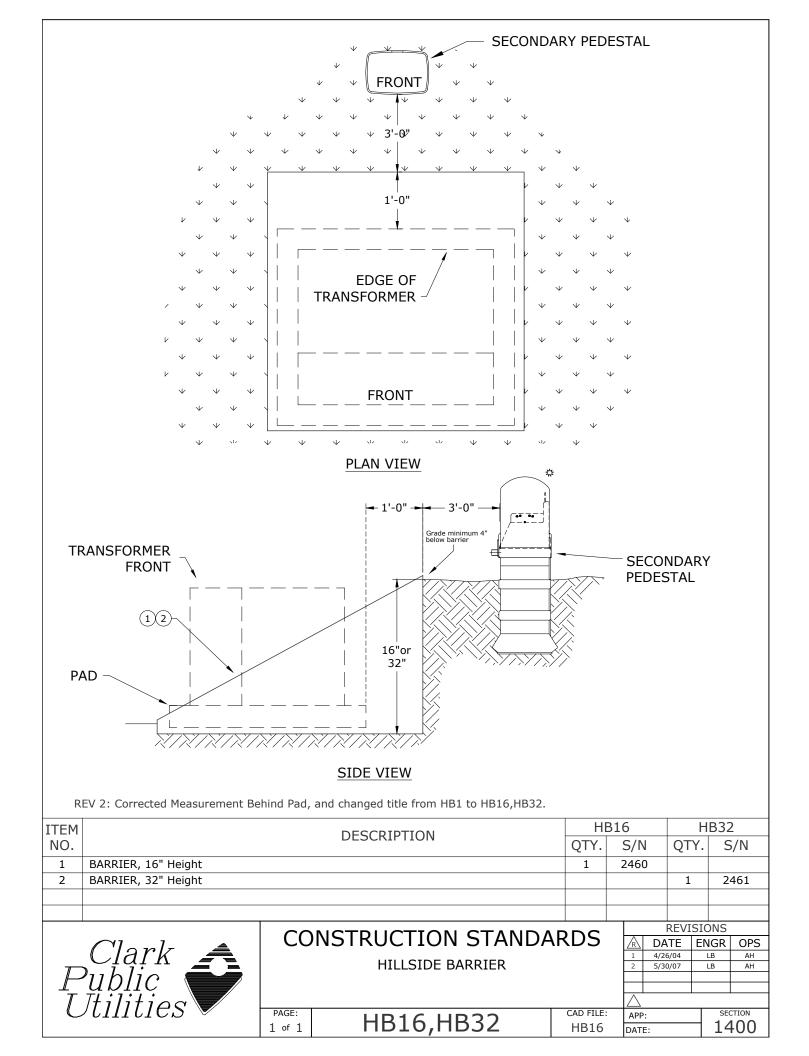
Notes:

*1 Fuses for 25 kVA livefront transformers are stocked for maintenance only (RTE 476B1, S/N 1664).

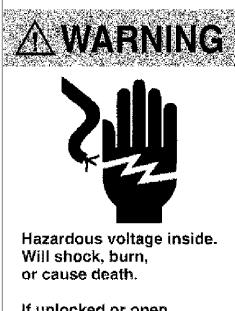
- *2 Use largest fuse size for applications while considering up/downstream fuses, conductor, and loading. Check with Systems Engineering as needed.
- *3 Recommended fuse will result in some loss of overload capability.
- *4 Transformer and upstream protection may miscoordinate, therefore each transformer should ideally be on separate feeders/protection.
- *5 Fuse will limit overload capability of transformer.
- *6 The use of these fuses will provide 175% of rated load for 2 hours and 150% of rated load for 7 hours.

Rev. 3 - Added 2000 & 2500 kVA, stock numbers, upstream fuses and notes.

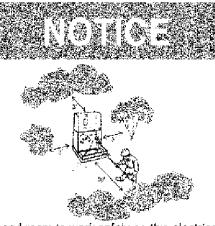
| | CON | | | | REVI | SIONS | |
|------------------------------|----------|-------------------|-----------|--------------|------------|-------|--------|
| Clorela 🛋 | CON | ISTRUCTION STANDA | ARDS | \mathbb{A} | DATE | ENGR | OPS |
| | | | | 1 | 3/02 | DRAWN | IN CAD |
| FUSE SCHEDULE | | | | 2 | 2/11/10 | KJP | |
| PIIDIC PADMOUNT TRANSFORMERS | | | 3 | 7/10/20 | KJP | | |
| | | | | | | | |
| T Itilition | | | | | | | |
| | PAGE: | | CAD FILE: | APP | : ELM | | CTION |
| | 1 of 1 | FIA | F1A | DAT | E: 1/31/80 | 14 | -00 |



Label for outside of padmounted equipment S/N 2568



If unlocked or open *Immediately* call Clark Public Utilities 360-992-3000.



We need room to work safely on this electrical supply device.

Please keep shrubs and structures 10 ft. away from this side and 3 ft. from all other sides.

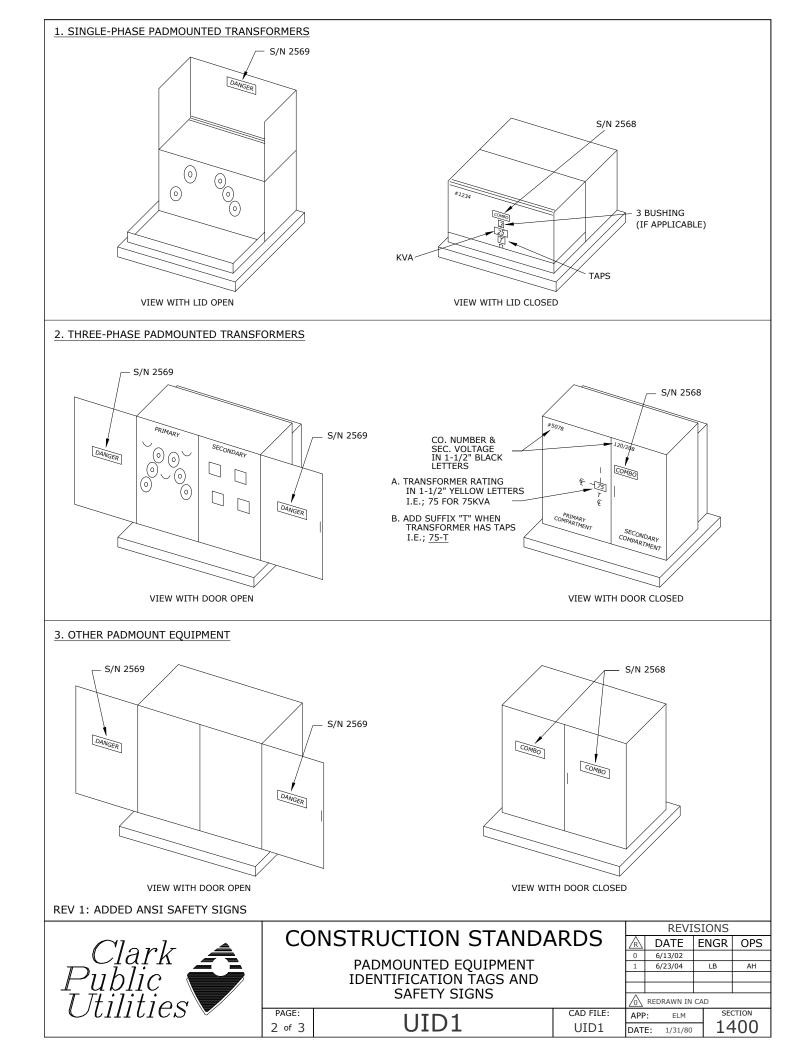
Obstructions cause delays when restoring electric service and will be removed at the owner's expense.

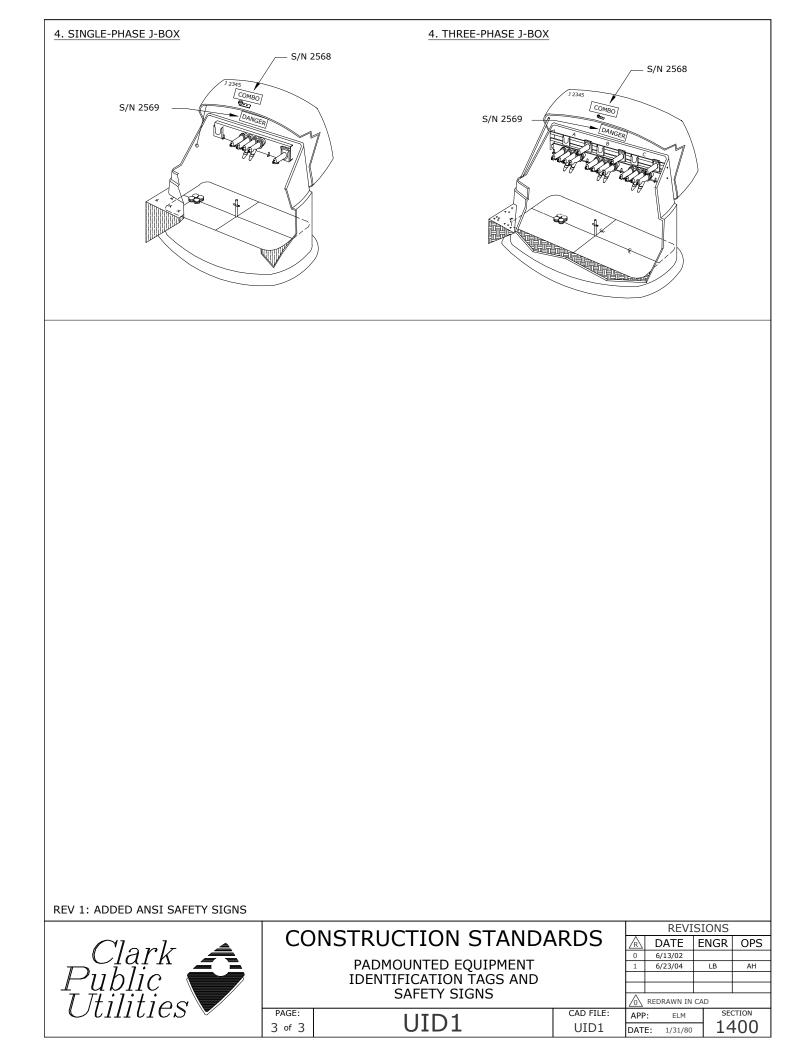




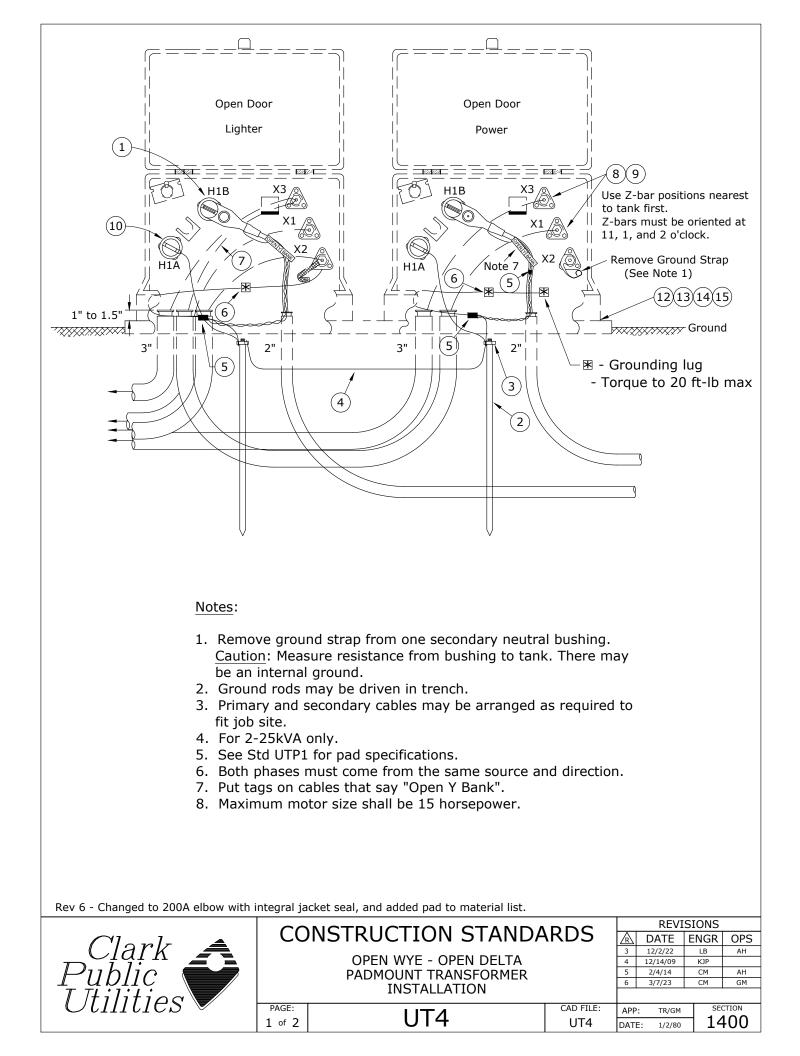
Label for inside of padmounted equipment S/N 2569



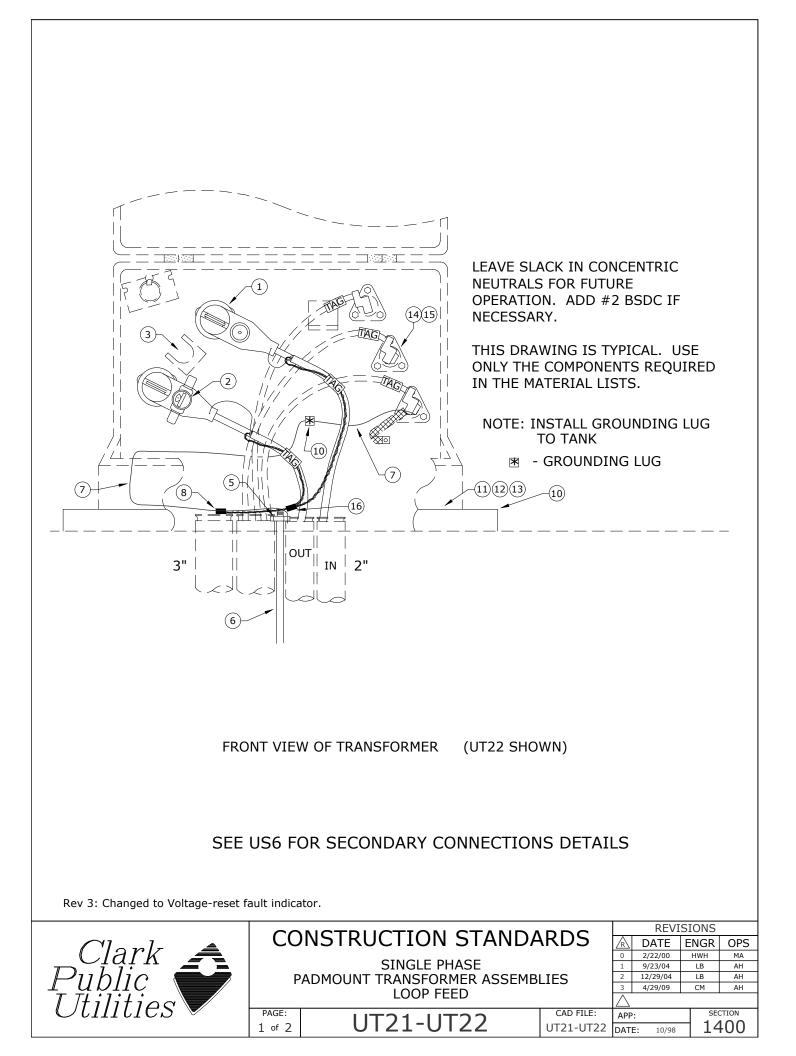




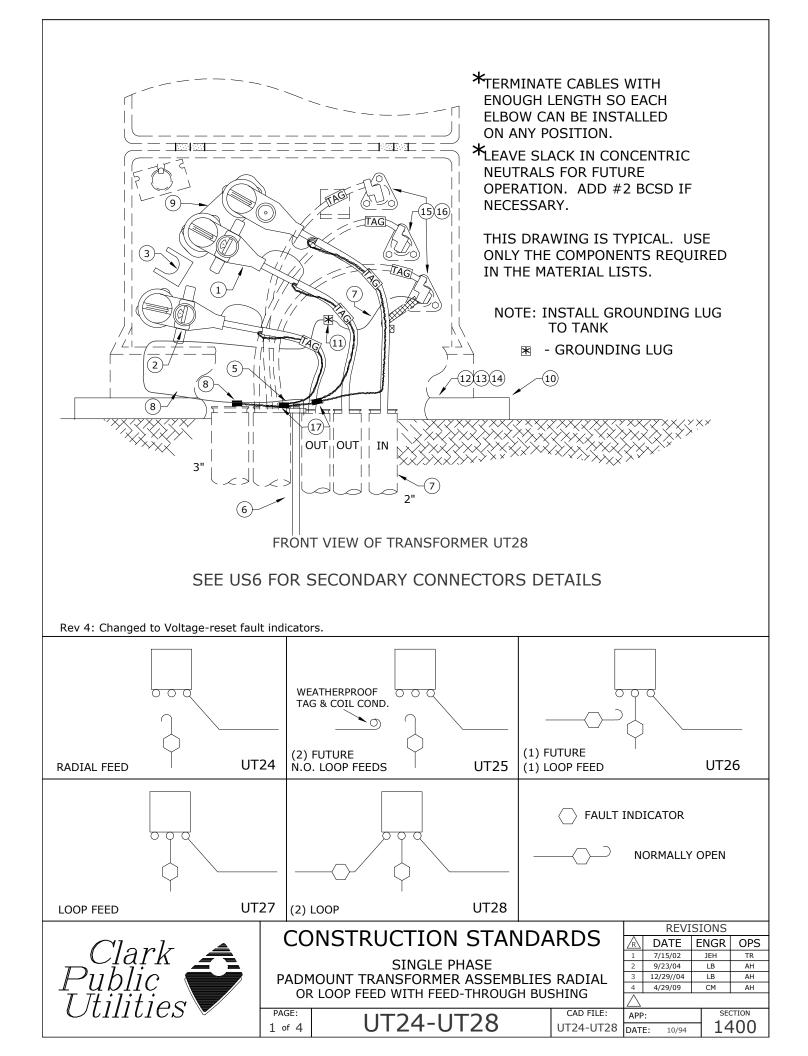
| | Г | | | | | | | |
|-------------|----------------------------------|-------------|---|-----------|---|---|-------------------------------|----------------|
| | | | Image: Second | | FOR FUTU N. ADD #2 Y. WING IS T COMPONE TERIAL LIS | YPICAL NTS RESTS. OUNDI NG LUG | IF . USE EQUIR NG LU | |
| | | | | | | | | |
| | | RADIA | | — UT2 | | | | |
| | SEE US6 | 5 FOR S | SECONDARY CONN | ECTIONS [| DETAILS | | | |
| | | | MATERIAL LIST | | | | 1 | |
| ITEM NO. | | | DESCRIPTION | | | | QTY. | S/N |
| 1 | Elbow, Loadbreak, 1/0, 200A, 1 | 75 mil | | | | | 1 | 1312 |
| 2 | Cap, Protective Insulated, 200A | | | | | | 1 | 265 |
| 3 | Clamp, Ground Rod 5/8", Small | | | | | | 1 | 281 |
| 4 | Rod, Ground 5/8" x 8' | | | | | | 1 | 1124 |
| 5 | Conductor, Wire BSDC #4 SLD | | | | | | 6 | 376 |
| 6 | Connector, Crimpet, #4 to #2 | | | | | | 1 | 454 |
| 7 | Pad, Transformer 42" x 42" | | | | | | 1 | 929 |
| 8 | Ground Lug | | | | | | 1 | 842 |
| 9 | Bolt, Machine, 1/2" x 1-1/2" SS | | | | | | 2 | 131🌣 |
| 10 | Elbow, Sealing Kit, 1/0, 175 & 2 | | | | | | 1 | 2391 🌣 |
| 11 | Washer, 2" x 3" x 3/16" w/ 9/16 | | | | | | 2 | 1415 |
| 12 | Connector, z-bar #2-500 MCM - | + Streetlig | jht | | | | 3 | 2265 |
| 13 | Cover, Connector U.G. | | | | | | 3 | 2266 |
| Rev. 4 | - Corrected material issue. | | | | | 1 | | |
| | | | NSTRUCTION | STANDA | RDS | | | ONS NGR OPS |
| | Clark Public Itilities | | | | | | | NGR OPS |
| 1 | | | SINGLE PH | | | 2 9/2 | 3/04 | LB AH |
| | UDIIC 🗲 | | PADMOUNT TRAN | | | | 29/04 1/16 | LB AH KJP |
| T | Thilition | | RADIAL FE | | | \square | | |
| | ノし111し1てろ 🚿 | PAGE: | UT2 | | CAD FILE: | APP: | JEH | SECTION |
| | | 1 of 1 | 012 | | UT2 | DATE: 2 | 2/22/00 | 1400 |



| | Bay-O-Net Fuse- Bay-O-Net Fuse- | | |
|-------------|--|------------------------------|--|
| | H _{1A} H _{1B} X3 X1 X2 H _{1A} H _{1B} X3 X1 X2 Remove Ground Strap (See Note 1) Wiring Diagram | | |
| | 1234 Image: Company of the second | (11) | 777 |
| Rev 6 | - Changed to 200A elbow with integral jacket seal, and added pad to material list. | 1 | |
| ITEM NO. | DESCRIPTION | QTY. | UT4 S/N |
| 1 | Elbow, 200A, Loadbreak, 1/0, 200A, 175 & 200 mil, Test Point, 15 kV, w/ Jacket Seal | 2 | 1312 🌣 |
| 2 | Rod, Ground, 5/8" x 8' | 2 | 1124 |
| 3 | Clamp, Ground Rod 5/8", Bronze, Small | 2 | 281 |
| 4 | Conductor, Cu, #4 Solid, Bare, Soft-Drawn, 1C | 30 | 376 |
| 5 | Connector, Crimpet, Cu, Run #2 Sol/Str, Tap #8 Sol - #4 Str (2C4) | 2 | 454 |
| 6 7 | Lug, Grounding, #8 Sol-2/0 Str, 4-way Cable, UG, 600v, AI, 4/0, USE, 1C | 3 13 | 842 353 |
| 8 | Connector, Z-Bar, 5/8" Stud, Al/Cu, 6-position, #2 - 500 MCM + Streetlight | 5 | 2265 |
| 9 | Cover, Connector, Z-Bar, 6-position | 5 | 2266 |
| 10 | Cap, Protective Insulated, 200A, 15 kV | 2 | 265 |
| 11 | Label, "Open Bank" | 2 | 2781 |
| 12 | Pad, Transformer 42" x 42", 1Ø, 25-75 kVA | 2 | 929 🌣 |
| 13 | Bolt, Machine, 1/2" x 1-1/2" SS | 4 | 131* |
| 14 15 | Washer, 2" x 3" x 3/16" w/ 9/16" Slotted Hole Nut, Spring Loaded, Galv, 1/2" (Unistrut) | 4 | 1415* |
| P | Clark Ublic Trilities CONSTRUCTION STANDARDS OPEN WYE - OPEN DELTA PADMOUNT TRANSFORMER INSTALLATION | 29/04 I 14/09 k 4/14 0 | IGR OPS B AH CDP CM AH CM GM |
| | PAGE: Q of 2 UT4 CAD FILE: APP: UT4 DATE: | TR/GM 9/94 | section 1400 |



| | | \ | _ | | \ | | | | |
|--------|---|---------------|-----------------|--|------------|-----------------|--------|------------|----------|
| | FUTURE N.O. LOOP FEED | UT | F21 | LOOP FEED | U | T22 | | | |
| | FAULT INDI | CATOR | | | MALLY OPEN | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Rev 3: | Changed to Voltage-reset fault in | ndicator. | | | | | | | |
| ITEM | | D | ESCRIPTION | d | | | ι | JT21 | |
| NO. | | D | | v | | | QTY. | S/N | |
| 1 | Elbow, Loadbreak, 1/0, 175 mil | - | - | 91) | | | 2 | 1312 | |
| 2 | Voltage-Reset Fault Indicator, 4 | | ð UG | | | | 1 | 2694 | |
| 3 | Bushing, Standoff Insulated 200 | A | | | | | 1 | 252 | |
| 4 5 | Cap, Protective Insulated 200A | | | | | | 1 | 265 281 | |
| 5 | Clamp, Ground Rod 5/8", Small Rod, Ground 5/8" x 8' | | | | | | 1 | 1124 | |
| 7 | Conductor, Wire BSDC #4 SLD | | | | | | 12 | 376 | |
| 8 | Connector, Crimpet, #4 to #2 (2 | 2(4) | | | | | 12 | 454 | |
| 9 | Pad, Transformer 42" x 42" | 204) | | | | | 1 | 929 | |
| 10 | Ground Lug | | | | | | 1 | 842 | |
| 11 | Bolt, Unistrut, Padmount Tie Do | wn | | | | | 2 | 193 | |
| 12 | Nut, Spring-Loaded, Galv, 1/2", | | | | | | 2 | 920 | |
| 13 | Washer, 2" x 3" x 3/16" w/ 9/16 | 5" Slotted Ho | ole | | | | 2 | 141 | 5 |
| 14 | Connector, Z-Bar #6-500 MCM - | + St. Lt | | | | | 3 | 226 | 5 |
| 15 | Cover, Connector Z-Bar | | | | | | 3 | 226 | 5 |
| | | | | | | | | | |
| ITEM | | D | ESCRIPTION | N | | | ι | JT22 | |
| NO. | | D | | N Contraction of the second seco | | | QTY. | S/N | 1 |
| 1 | Elbow, Loadbreak, 1/0, 175 mil | (Includes Se | ealing Kit #239 | 91) | | | 2 | 1312 | 2 |
| 2 | Voltage-Reset Fault Indicator, 4 | 00A Trip, 10 | ð UG | | | | 1 | 2694 | 4 🌣 |
| 5 | Clamp, Ground Rod 5/8", Small | | | | | | 1 | 281 | |
| 6 | Rod, Ground 5/8" x 8' | | | | | | 1 | 1124 | |
| 7 | Conductor, Wire BSDC #4 SLD | | | | | | 12 | 376 | |
| 8 9 | Connector, Crimpet, #4 to #2 (2 Pad, Transformer 42" x 42" | 204) | | | | | 1 | 454 929 | |
| 10 | Ground Lug | | | | | | 1 | 842 | |
| 11 | Bolt, Unistrut, Padmount Tie Dov | wn | | | | | 2 | 193 | |
| 12 | Nut, Spring-Loaded, Galv, 1/2", | | | | | | 2 | 920 | |
| 13 | Washer, 2" x 3" x 3/16" w/ 9/16 | | ole | | | | 2 | 141 | 5 |
| 14 | Connector, Z-Bar #6-500 MCM - | + St. Lt | | | | | 3 | 226 | 5 |
| 15 | Cover, Connector Z-Bar | | | | | | 3 | 226 | |
| 16 | Connector, Crimpet, #2 to #2 (2 | 2C2) | | | | 1 | 1 | 455 | |
| | | CON | ISTRUC | TION STANDA | ARDS | A DA | | | PS |
| | Clark Public Itilities | | | | | 0 2/2 | 2/00 1 | нwн | MA |
| | | | | INGLE PHASE ANSFORMER ASSEMB | | 1 9/2 2 12/2 | | | AH AH |
| | | PAL | | LOOP FEED | | 3 4/29 | | | AH |
| | Itilities 🚩 🛛 | PAGE: | | | CAD FILE: | APP: | | SECTIO | N |
| | | 2 of 2 | UT2 | 21-UT22 | | | 10/98 | 140 | |



| Rev 4: Changed to V | oltage-reset fault indicators. |
|---------------------|--------------------------------|
|---------------------|--------------------------------|

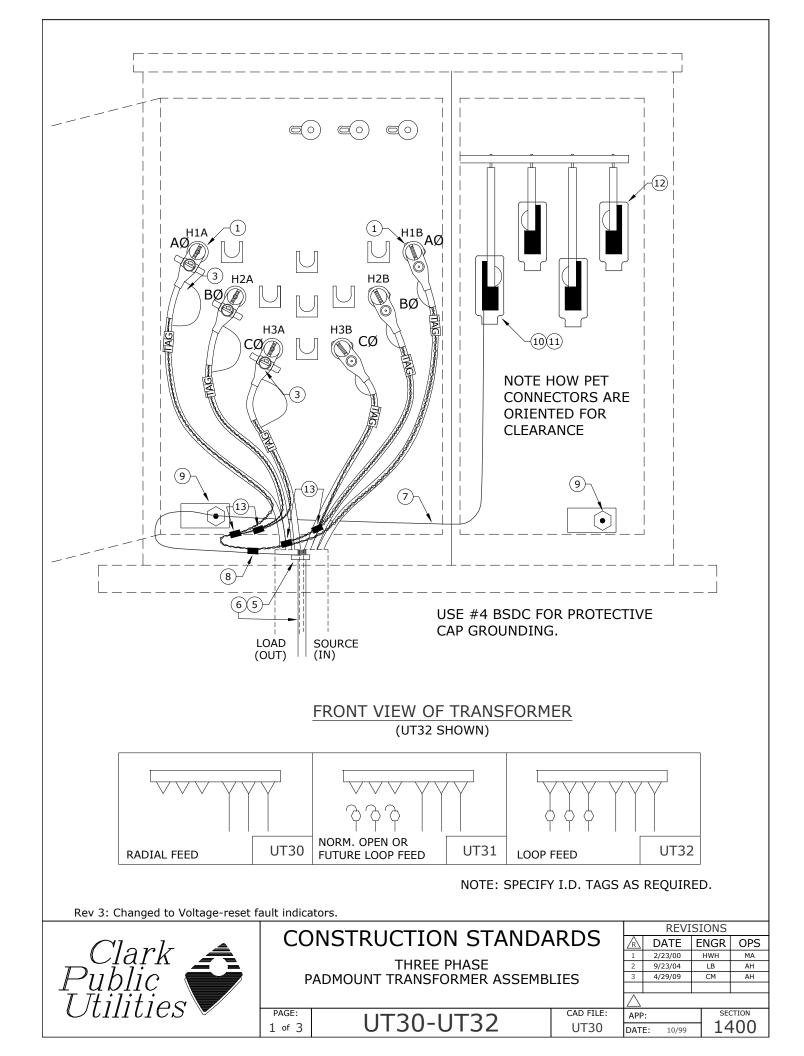
| ITEM | | U | T24 | | |
|------|--|---------|----------------|--|--|
| NO. | DESCRIPTION | QTY. | S/N | | |
| 1 | Elbow, Loadbreak. 1/0, 200A, 175 mil | 2 | 1312 | | |
| 2 | Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG | 1 | 2694 🌣 | | |
| 3 | Bushing, Standoff Insulated 200A | 1 | 252 | | |
| 4 | Cap, Protective Insulated 200A | 2 | 265 | | |
| 5 | Clamp, Ground Rod 5/8", Small | 1 | 281 | | |
| 6 | Rod, Ground 5/8" x 8' | 1 | 1124 | | |
| 7 | Conductor, Wire BSDC #4 SLD | 6 | 376 | | |
| | , | - | | | |
| 8 | Connector, Crimpet, #4 to #2 (2C4) | 1 | 454 | | |
| 9 | Insert, Feed-Through | 1 | 237 | | |
| 10 | Pad, Transformer 42" x 42" | 1 | 929 | | |
| 11 | Ground Lug | 1 | 842 | | |
| 12 | Bolt, Unistrut, Padmount Tie Down | 2 | 193 | | |
| 13 | Nut, Spring-loaded, Galv, 1/2", Unistrut | 2 | 920 | | |
| 14 | Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole | 2 | 1415 | | |
| 15 | Connector, Z-Bar #6-500 MCM + St. Lt | 3 | 2265 | | |
| 16 | Cover, Connector U.G. | 3 | 2266 | | |
| 17 | Connector, Crimpet, #2 to #2 (2C2) | 1 | 455 | | |
| | | | | | |
| | | | | | |
| ITEM | | U. | T25 | | |
| NO. | DESCRIPTION | QTY. | S/N | | |
| | | - | | | |
| 1 | Elbow, Loadbreak. 1/0, 200A, 175 mil | 2 | 1312 | | |
| 2 | Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG | 1 | 2694 🌣 | | |
| 3 | Bushing, Standoff Insulated 200A | 1 | 252 | | |
| 4 | Cap, Protective Insulated 200A | 2 | 265 | | |
| 5 | Clamp, Ground Rod 5/8", Small | 1 | 281 | | |
| 6 | Rod, Ground 5/8" x 8' | 1 | 1124 | | |
| 7 | Conductor, Wire BSDC #4 SLD | 6 | 376 | | |
| 8 | Connector, Crimpet, #4 to #2 (2C4) | 1 | 454 | | |
| 9 | Insert, Feed-Through | 1 | 237 | | |
| 10 | Pad, Transformer 42" x 42" | 1 | 929 | | |
| 11 | Ground Lug | 1 | 842 | | |
| 12 | Bolt, Unistrut, Padmount Tie Down | 2 | 193 | | |
| 13 | Nut, Spring-loaded, Galv, 1/2", Unistrut | 2 | 920 | | |
| 14 | Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole | 2 | 1415 | | |
| 15 | Connector, Z-Bar #6-500 MCM + St. Lt | 3 | 2265 | | |
| 16 | Cover, Connector U.G. | 3 | 2266 | | |
| 17 | Connector, Crimpet, #2 to #2 (2C2) | 1 | 455 | | |
| | | - | | | |
| | | | | | |
| | | REVISIC | NS | | |
| | | | GR OPS | | |
| | $(Jark \land Jark \land$ | | EH TR | | |
| | SINGLE PHASE | | .B AH .B AH | | |
| | PADMOUNT TRANSFORMER ASSEMBLIES RADIAL 3 12/29/ 4 4/29/ | | | | |
| | Clark Public Utilities Additional Construction Standards Single Phase PADMOUNT TRANSFORMER ASSEMBLIES RADIAL OR LOOP FEED WITH FEED-THROUGH BUSHING PAGE: LIT24 LIT29 CAD FILE: APP: | | | | |
| | | | SECTION | | |
| | UT24-UT28 UT24-UT28 DATE: | 10/94 | 1400 | | |

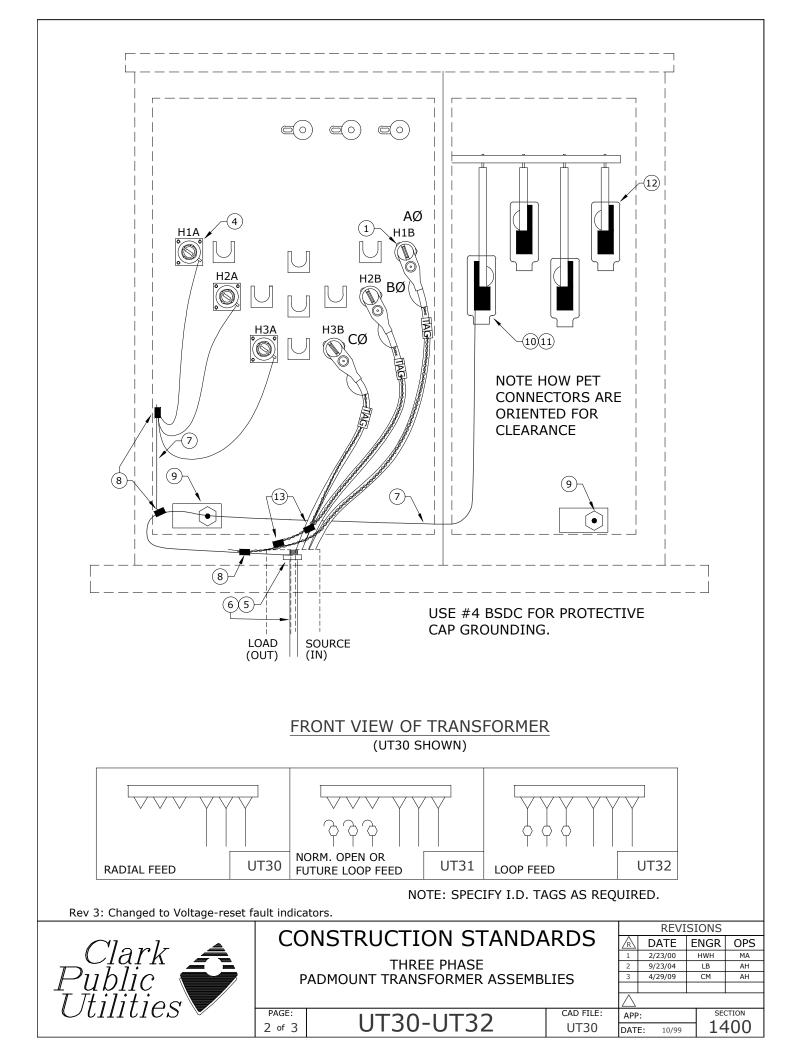
| Rev 4: Changed to V | /oltage-reset fault | indicators. |
|---------------------|---------------------|-------------|
|---------------------|---------------------|-------------|

| ITEM | | U | T26 |
|------|--|--------------------|---------------------------------|
| NO. | DESCRIPTION | QTY. | S/N |
| 1 | Elbow, Loadbreak, 1/0, 200A, 175 mil | 3 | 1312 |
| 2 | Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG | 2 | 2694 🌣 |
| 3 | Bushing, Standoff Insulated 200A | 1 | 252 |
| 4 | Cap, Protective Insulated 200A | 1 | 265 |
| 5 | Clamp, Ground Rod 5/8", Small | 1 | 281 |
| 6 | Rod, Ground 5/8" x 8' | 1 | 1124 |
| 7 | Conductor, Wire BSDC #4 SLD | 6 | 376 |
| 8 | Connector, Crimpet, #4 to #2 (2C4) | 1 | 454 |
| 9 | Insert, Feed-Through | 1 | 237 |
| 10 | Pad, Transformer 42" x 42" | 1 | 929 |
| | | | |
| 11 | Ground Lug | 1 | 842 |
| 12 | Bolt, Unistrut, Padmount Tie Down | 2 | 193 |
| 13 | Nut, Spring-loaded, Galv, 1/2", Unistrut | 2 | 920 |
| 14 | Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole | 2 | 1415 |
| 15 | Connector, Z-Bar #6-500 MCM + St. Lt | 3 | 2265 |
| 16 | Cover, Connector U.G. | 3 | 2266 |
| 17 | Connector, Crimpet, #2 to #2 (2C2) | 2 | 455 |
| | | | |
| | | | |
| ITEM | DECORDITION | U | T27 |
| NO. | DESCRIPTION | QTY. | S/N |
| 1 | Elbow, Loadbreak, 1/0, 200A, 175 mil | 2 | 1312 |
| 2 | Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG | 1 | 2694 🌣 |
| 3 | Bushing, Standoff Insulated 200A | 1 | 252 |
| 4 | Cap, Protective Insulated 200A | 1 | 265 |
| 5 | Clamp, Ground Rod 5/8", Small | 1 | 285 |
| | | | |
| 6 | Rod, Ground 5/8" x 8' | 1 | 1124 |
| 7 | Conductor, Wire BSDC #4 SLD | 6 | 376 |
| 8 | Connector, Crimpet, #4 to #2 (2C4) | 1 | 454 |
| 9 | Insert, Feed-Through | 1 | 237 |
| 10 | Pad, Transformer 42" x 42" | 1 | 929 |
| 11 | Ground Lug | 1 | 842 |
| 12 | Bolt, Unistrut, Padmount Tie Down | 2 | 193 |
| 13 | Nut, Spring-loaded, Galv, 1/2", Unistrut | 2 | 920 |
| 14 | Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole | 2 | 1415 |
| 15 | Connector, Z-Bar #6-500 MCM + St. Lt | 3 | 2265 |
| 16 | Cover, Connector U.G. | 3 | 2266 |
| 17 | Connector, Crimpet, #2 to #2 (2C2) | 1 | 455 |
| | | | |
| | | | |
| | | REVISIC | GR OPS |
| P | SINGLE PHASE Public PADMOUNT TRANSFORMER ASSEMBLIES RADIAL $\frac{2 9/2}{3 12/2}$ | 23/04 L 29/04 L | B AH B AH M AH SECTION |

| DESCRIPTION | UT28 | | | | |
|--|---|--|--|--|--|
| DESCRIPTION | QTY. | S/N | | | |
| Elbow, Loadbreak, 1/0, 200A, 175 mil | 3 | 1312 | | | |
| Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG | 2 | 2694 🌣 | | | |
| Bushing, Standoff Insulated 200A | 1 | 252 | | | |
| Cap, Protective Insulated 200A | - | 265 | | | |
| Clamp, Ground Rod 5/8", Small | 1 | 281 | | | |
| Rod, Ground 5/8" x 8' | 1 | 1124 | | | |
| Conductor, Wire BSDC #4 SLD | 6 | 376 | | | |
| Connector, Crimpet, #4 to #2 (2C4) | 1 | 454 | | | |
| Insert, Feed-Through | 1 | 237 | | | |
| Pad, Transformer 42" x 42" | 1 | 929 | | | |
| Ground Lug | 1 | 842 | | | |
| Bolt, Unistrut, Padmount Tie Down | 2 | 193 | | | |
| Nut, Spring-loaded, Galv, 1/2", Unistrut | 2 | 920 | | | |
| Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole | 2 | 1415 | | | |
| Connector, Z-Bar #6-500 MCM + St. Lt | 3 | 2265 | | | |
| Cover, Connector U.G. | 3 | 2266 | | | |
| Connector, Crimpet, #2 to #2 (2C2) | 2 | 455 | | | |
| | | | | | |
| | | | | | |
| | | - | | | |
| $Clorelz \triangleq CONSTRUCTION STANDARDS A DAT$ | | | | | |
| SINGLE PHASE $\frac{1}{2}$ $\frac{1}{9/2}$ | | EH TR LB AH | | | |
| $210/10^{\circ}$ PADMOUNT TRANSFORMER ASSEMBLIES RADIAL | | LB AH | | | |
| T_{4} T_{4 | 3/03 (| CM AH | | | |
| | | SECTION | | | |
| 4 of 4 UI24-UI28 UT24-UT28 DATE: | 10/94 | 1400 | | | |
| | Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG Bushing, Standoff Insulated 200A Cap, Protective Insulated 200A Clamp, Ground Rod 5/8", Small Rod, Ground S/8" x 8' Conductor, Wire BSDC #4 SLD Connector, Crimpet, #4 to #2 (2C4) Insert, Feed-Through Pad, Transformer 42" x 42" Ground Lug Bolt, Unistrut, Padmount Tie Down Nut, Spring-loaded, Galv, 1/2", Unistrut Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole Connector, Z-Bar #6-500 MCM + St. Lt Cover, Connector U.G. Connector, Crimpet, #2 to #2 (2C2) Connector, Crimpet, #2 to #2 (2C2) Clark PADMOUNT TRANSFORMER ASSEMBLIES RADIAL OR LOOP FEED WITH FEED-THROUGH BUSHING PAGE: | DESCRIPTION QTY. Elbow, Loadbreak, 1/0, 200A, 175 mil 3 Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG 2 Bushing, Standoff Insulated 200A 1 Cap, Protective Insulated 200A 1 Cap, Ground Rod 5/8", Small 1 Rod, Ground S/8", Small 1 Conductor, Wire BSDC #4 SLD 6 Connector, Crimpet, #4 to #2 (2C4) 1 Insert, Feed-Through 1 Pad, Transformer 42" x 42" 1 Ground Lug 1 Bolt, Unistrut, Padmount Tie Down 2 Nut, Spring-loaded, Galv, 1/2", Unistrut 2 Washer, 2" X 3" X 3/16" w/ 9/16" slotted hole 2 Connector U.G. 3 Connector, Crimpet, #2 to #2 (2C2) 2 Very Connector U.G. 3 Connector, Crimpet, #2 to #2 (2C2) 2 Very Connector U.G. 3 Connector, Crimpet, #2 to #2 (2C2) 2 Very Connector U.G. 3 Connector, Crimpet, #2 to #2 (2C2) 2 PAGE: Very Connector U.G. Connector, Crimpet, #2 to #2 (2C2) 2 Very Co | | | |

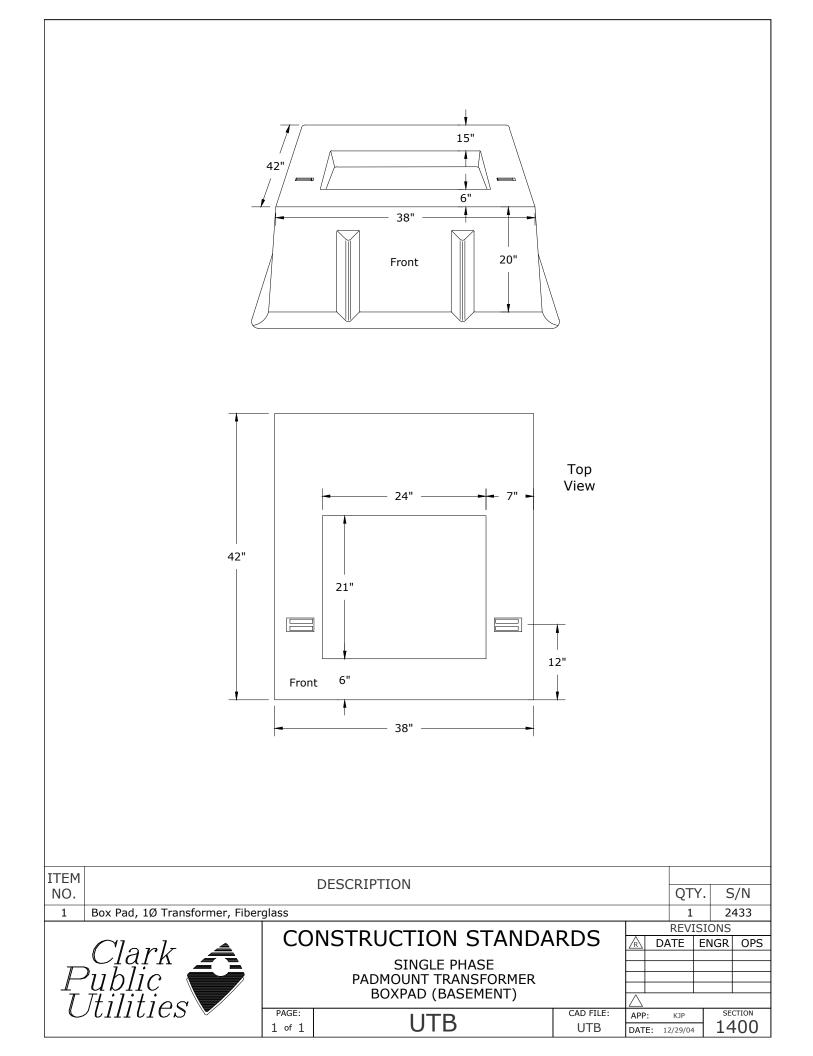
Rev 4: Changed to Voltage-reset fault indicators.

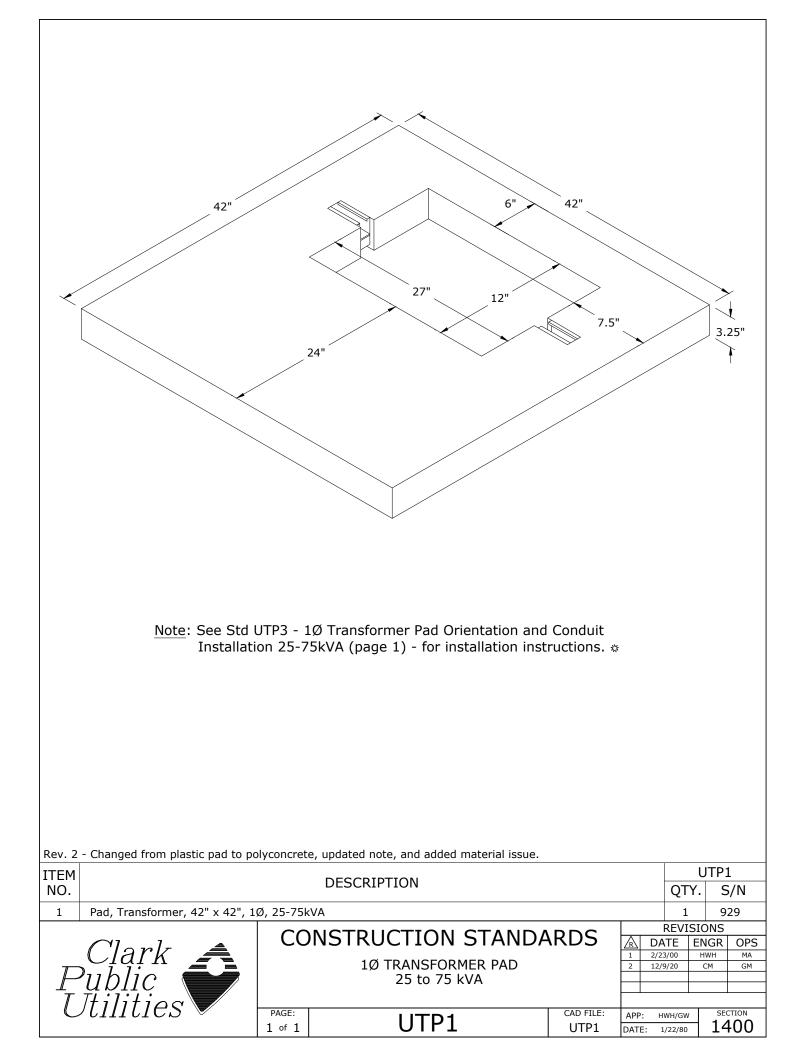


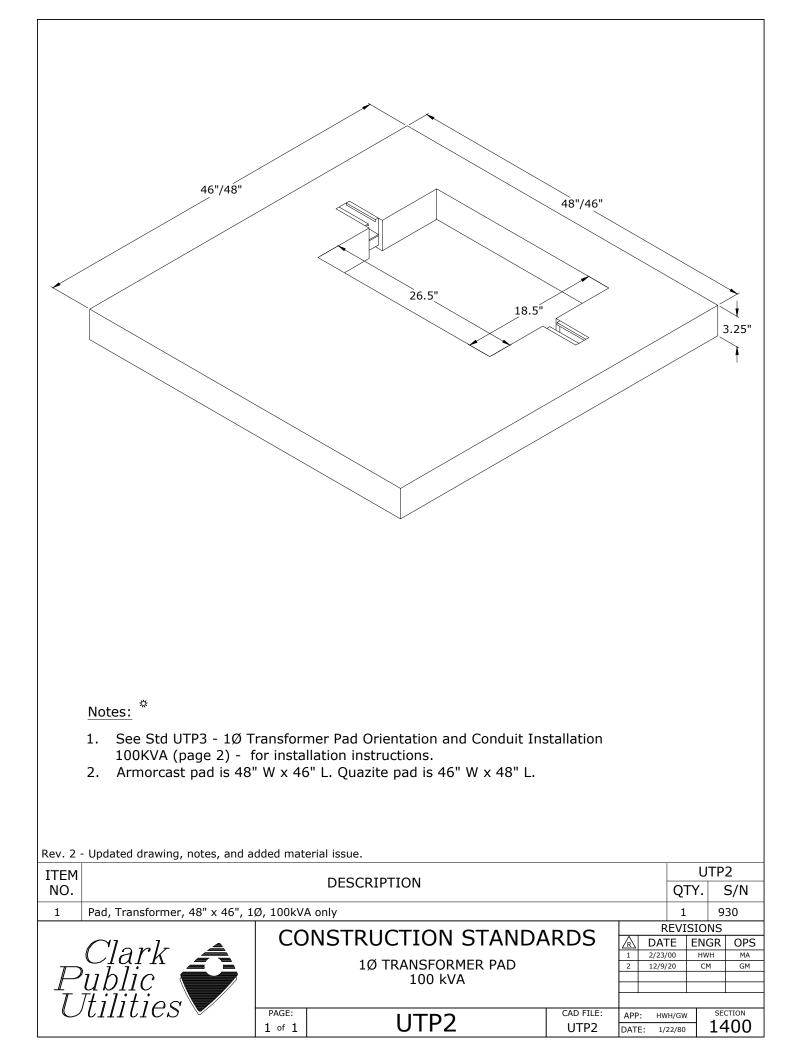


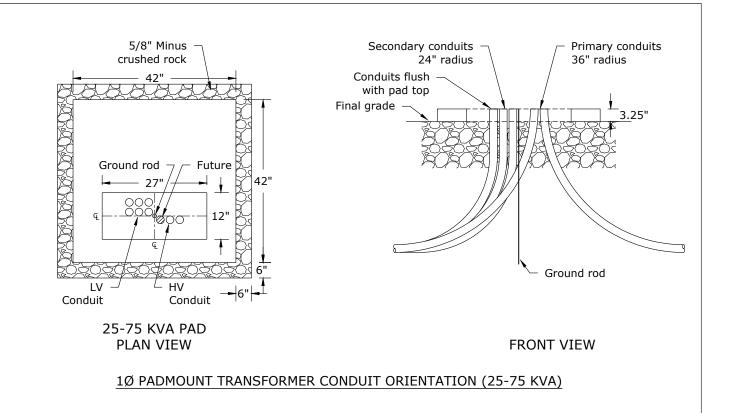
Rev 3: Changed to Voltage-reset fault indicators.

| TTENA | | 11 | Т30 | | | | |
|--|--|---------|--------------|--|--|--|--|
| ITEM NO. | DESCRIPTION | QTY. | S/N | | | | |
| 1 | Elbow, Loadbreak, 1/0, 200A, 175 mil | 3 | 1312 | | | | |
| 4 | Cap, Protective Insulated 200A | 3 | 265 | | | | |
| 5 | Clamp, Ground Rod 5/8", Small | 1 | 281 | | | | |
| 6 | Rod, Ground 5/8" x 8' | 1 | 1124 | | | | |
| 7 | Conductor, Wire BSDC #4 SLD | 10 | 376 | | | | |
| 8 | Connector, Crimpet, #4 to #2 (2C4) | 1 | 454 | | | | |
| 9 | Ground Lug | 2 | 842 | | | | |
| 10 | Connector, PET, #2-750 Al/Cu, 6 Position | 4 | 2129 | | | | |
| 11 | Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer | 16 | 1389 | | | | |
| 12 | Cover, PET, 8 Position | 4 | 2182 | | | | |
| 13 | Connector, Crimpet, #2 to #2 (2C2) | 2 | 455 | | | | |
| ITEM | | U | T31 | | | | |
| NO. | | | | | | | |
| | | QTY. | S/N | | | | |
| 1 | Elbow, Loadbreak, 1/0, 200A, 175 mil | 6 | 1312 | | | | |
| 2 | Bushing, Standoff Insulated 200A | 3 | 252 | | | | |
| 3 | Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG | 3 | 2694 🌣 | | | | |
| 4 | Cap, Protective Insulated, 200A | 3 | 265 | | | | |
| 5 | Clamp, Ground Rod 5/8", Small | 1 | 281 | | | | |
| 6 | Rod, Ground 5/8" x 8' | 1 | 1124 | | | | |
| 7 | Conductor, Wire BSDC #4 SLD | 10 | 376 | | | | |
| 8 | Connector, Crimpet, #4 to #2 (2C4) | 1 2 | 454 842 | | | | |
| 9 | Ground Lug | | | | | | |
| 10 | Connector, PET, #2-750 Al/Cu, 6 Position | 4 16 | 2129 1389 | | | | |
| 11 | Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer | | | | | | |
| 12 | Cover, PET, 8 Position | 4 | 2182 | | | | |
| 13 | Connector, Crimpet, #2 to #2 (2C2) | 4 | 455 | | | | |
| ITEM | DESCRIPTION | U | T32 | | | | |
| NO. | DESCRIPTION | QTY. | S/N | | | | |
| 1 | Elbow, Loadbreak, 1/0, 200A, 175 mil | 6 | 1312 | | | | |
| 3 | Voltage-Reset Fault Indicator, 400A Trip, 1Ø UG | 3 | 2694 🌣 | | | | |
| 5 | Clamp, Ground Rod 5/8", Small | 1 | 281 | | | | |
| 6 | Rod, Ground 5/8" x 8' | 1 | 1124 | | | | |
| 7 | Conductor, Wire BSDC #4 SLD | | | | | | |
| 8 | Connector, Crimpet, #4 to #2 (2C4) | | | | | | |
| 9 | Ground Lug | | | | | | |
| 10 | Connector, PET, #2-750 Al/Cu, 6 Position | | | | | | |
| 11 | Bolt, Machine, 1/2 x 2" SS w/ Bronze Nut & Belleville Washer | | | | | | |
| 12 | | | | | | | |
| 13 | Connector, Crimpet, #2 to #2 (2C2) | 4 | 2182 455 | | | | |
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| | PADMOUNT TRANSFORMER ASSEMBLIES | | | | | | |
| T Itilities V | | | | | | | |
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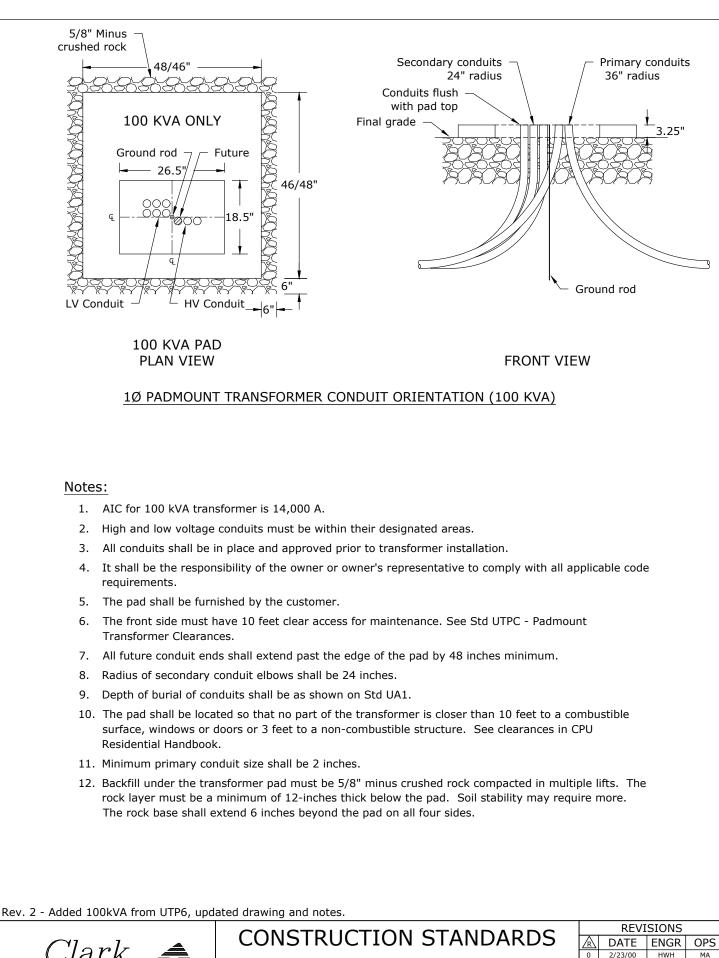


Notes:

- 1. AIC for 25 to 75 kVA transformers is 10,000 A.
- 2. High and low voltage conduits must be within their designated areas.
- 3. All conduits shall be in place and approved prior to transformer installation.
- 4. It shall be the responsibility of the owner or owner's representative to comply with all applicable code requirements.
- 5. The pad shall be furnished by the customer.
- 6. The front side must have 10 feet clear access for maintenance. See Std UTPC Padmount Transformer Clearances.
- 7. All future conduit ends shall extend past the edge of the pad by 48 inches minimum.
- 8. Radius of secondary conduit elbow shall be 24 inches.
- 9. Depth of burial of conduits shall be as shown on Std UA1.
- The pad shall be located so that no part of the transformer is closer than 10 feet to a combustible surface, windows or doors, or 3 feet to a non-combustible structure. See clearances in CPU Residential Handbook.
- 11. Minimum primary conduit size shall be 2 inches.
- 12. Backfill under the transformer pad must be 5/8" minus crushed rock compacted in multiple lifts. The rock layer must be a minimum of 12-inches thick below the pad. Soil stability may require more. The rock base shall extend 6 inches beyond the pad on all four sides.

Rev. 2 - Added 100kVA from UTP6, updated drawing and notes.

| | CONSTRUCTION STANDARDS | | | REVISIONS | | | | |
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| | 1Ø TRANSFORMER PAD ORIENTATION | | | | 1/26/04 | LB | AH | |
| | AND CONDUIT INSTALLATION 25-75 KVA | | | 2 | 12/9/20 | CM | GM | |
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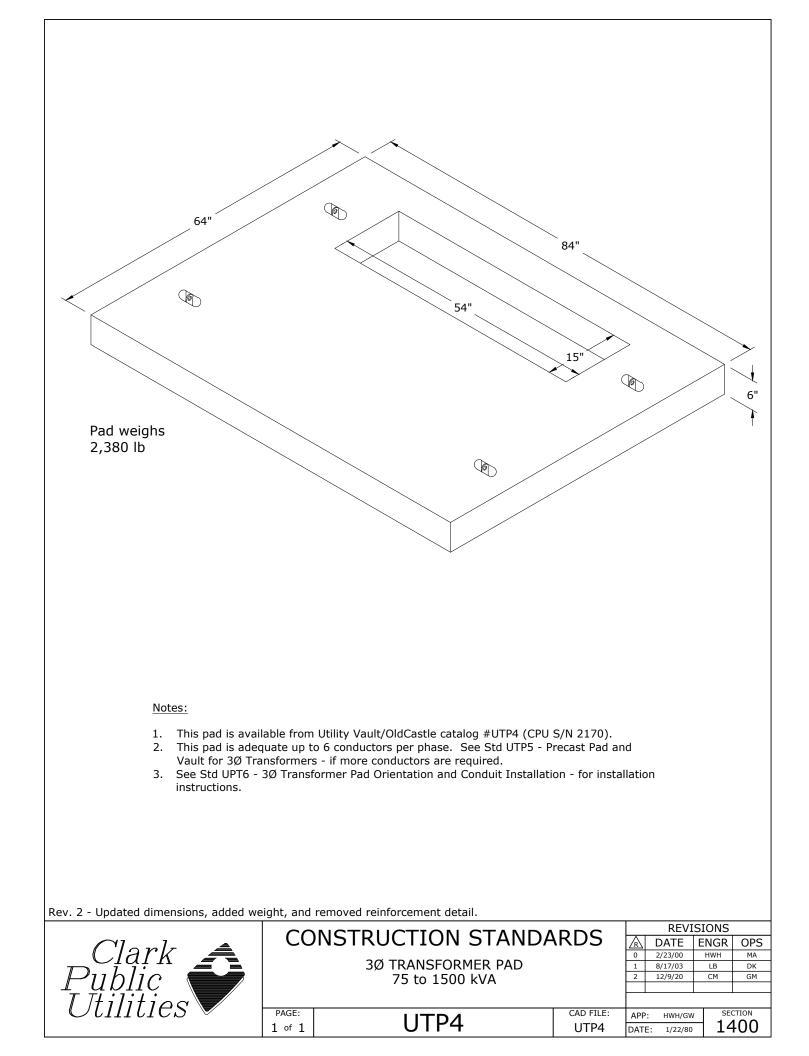


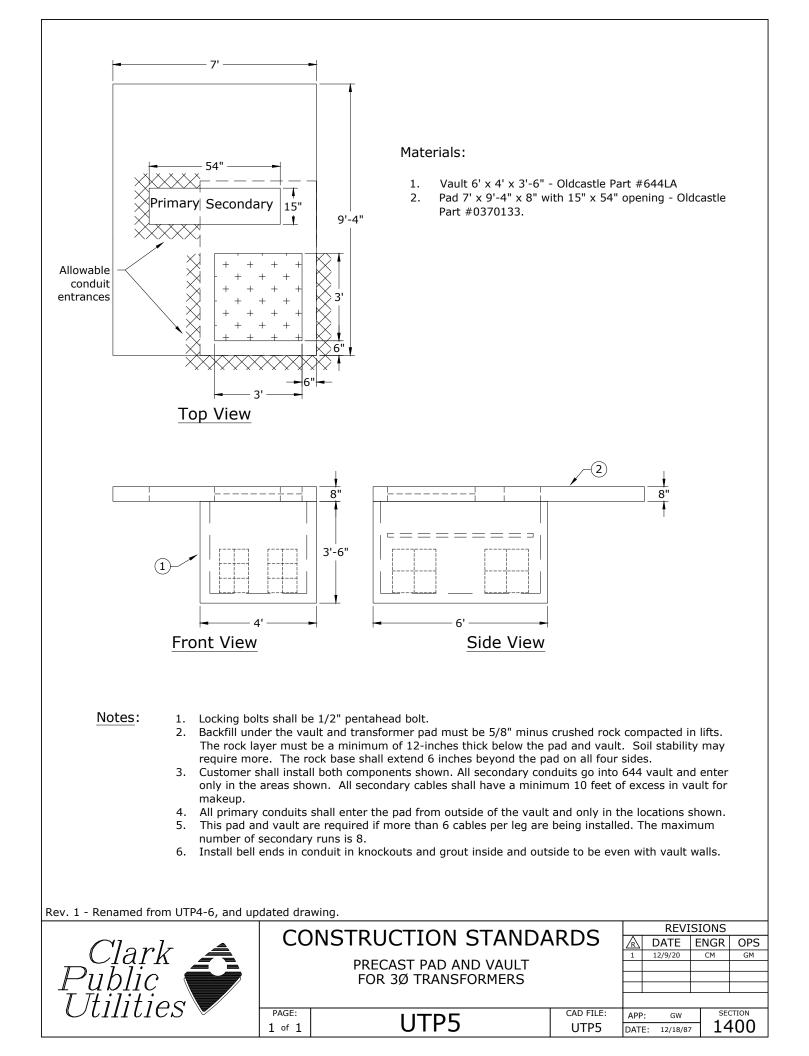
| | \Box CONSTRUCTION STANDARDS | | | | |
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| lark 🚄 | | 1Ø TRANSFORMER PAD ORIENTATI | | | |
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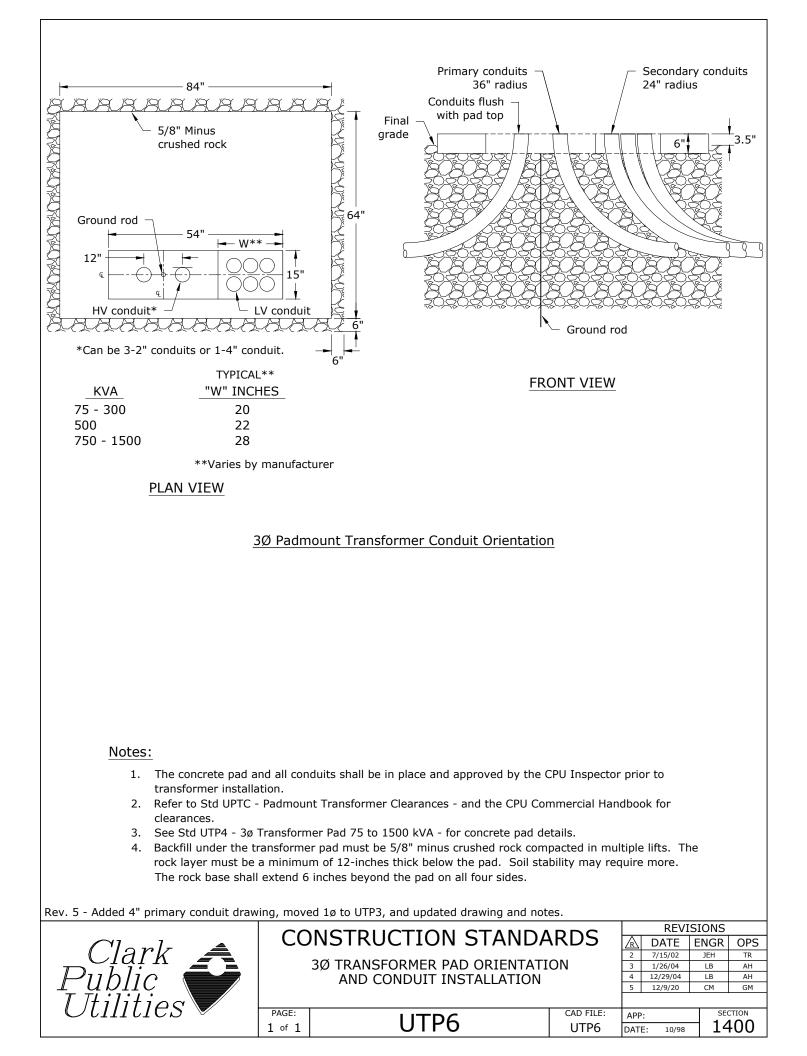
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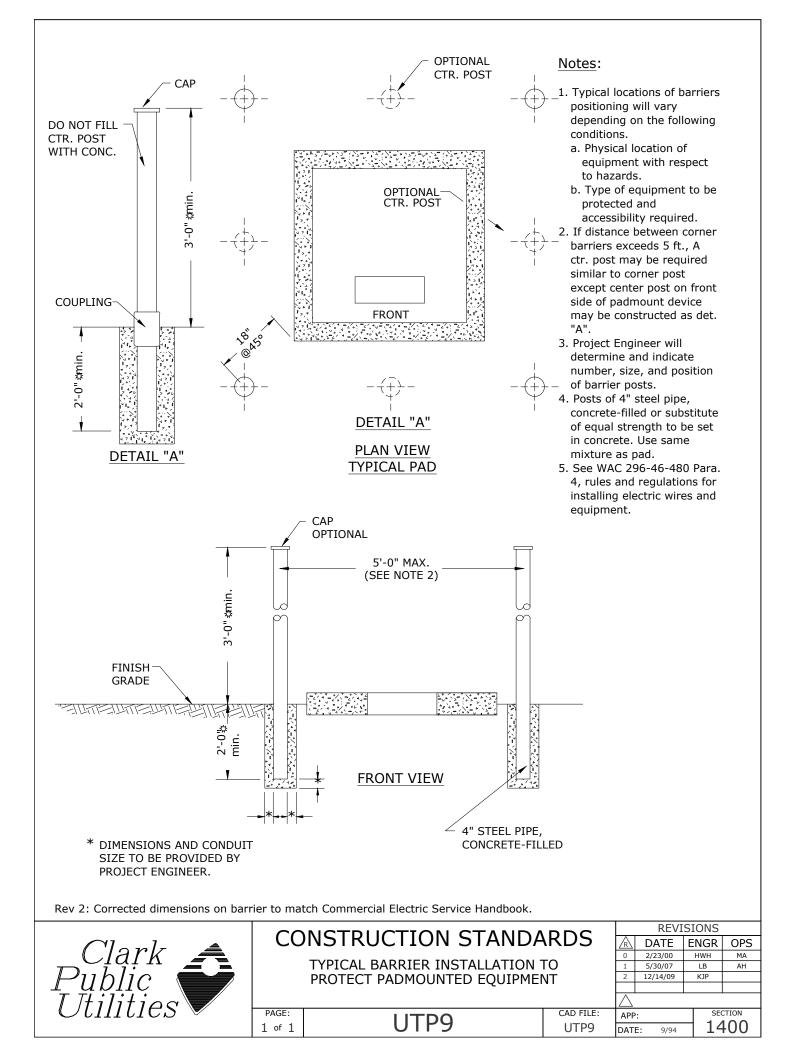
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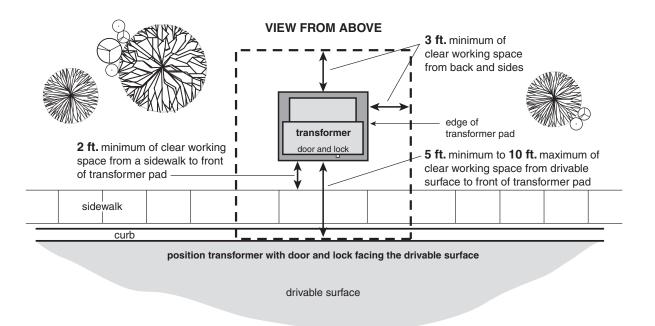
Transformer location and access

Underground electrical facilities must be readily accessible by the utility during construction and for future operation and maintenance. The area around padmounted electrical equipment must provide a clear and level working space and remain free from obstructions such as landscaping, poles, retaining walls, structures, fences, etc.

All transformers and padmounted equipment are to be located:

- ▶ Within 10 feet of a drivable surface but not closer than 5 feet (*Figure 3*).
- ► With the front of the equipment (door and lock side) facing toward the drivable surface.
- ▶ With the transformer pad parallel to the edge of the drivable surface.
- ► Allowing 10 feet of clearance in front and 3 feet from the back and sides of the equipment (*Figure 3*).
- ► At least 2 feet from a sidewalk for pedestrian safety.

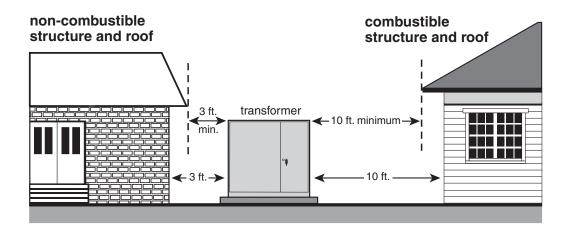
Figure 3 Commercial padmounted transformer location and access

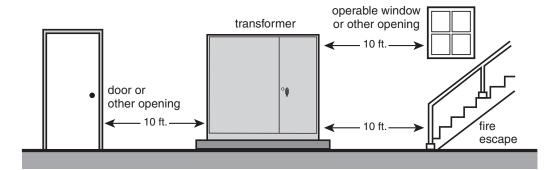


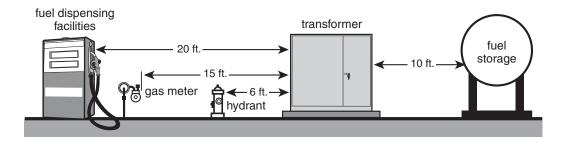
Transformer safety clearances

Clearances from padmounted transformers to structures are measured from the nearest metal portion of the transformer to the structure or any overhang. The clearance from a building is 10 feet if the building has combustible walls, and 3 feet if the building has non-combustible walls as shown in *Figure 4*. *Table 4* provides additional safety clearances that apply to any oil-filled electrical equipment.



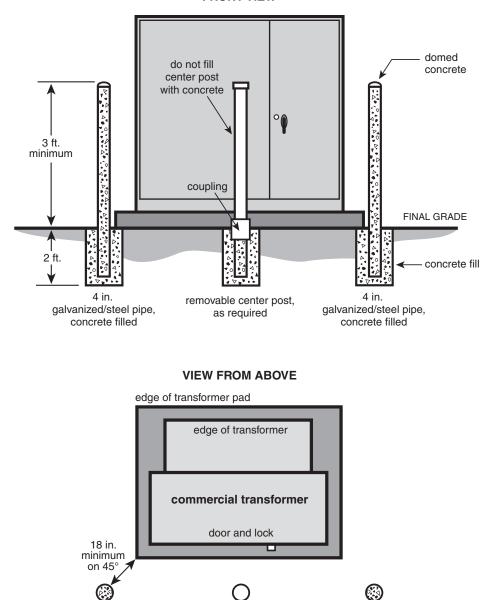






- ▶ If the distance between the corner posts exceeds 5 feet, a removable center post is required (*Figure 5*).
- ► If a removable center post is installed, the threaded joint requires treatment with an anti-seizing agent.
- ▶ Paint exposed section of post "traffic yellow."

Figure 5 Guard post (bollard) installation for commercial transformers



FRONT VIEW

NOTE: Additional guard posts may be required at back and sides of transformer.

removable center post, as required