<table>
<thead>
<tr>
<th>Title/Description</th>
<th>Page No.</th>
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<tr>
<td>Instructional Guide</td>
<td>5-1-1</td>
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<td>Riser Mold and Support Grip, Sizing Chart</td>
<td>5-2-1</td>
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<td>5-3-1</td>
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<td>5-4-1</td>
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<td>5-16-1</td>
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<td>5-17-1</td>
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<tr>
<td>Primary Riser - Single Conductor #2 Al., Feeding an Overhead Line</td>
<td>5-18-1</td>
</tr>
<tr>
<td>Primary Riser - Single Conductor #2 Al., Feeding an Overhead Transformer</td>
<td>5-19-1</td>
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<tr>
<td>Primary Riser - Two Conductors #2 Al.</td>
<td>5-20-1</td>
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<tr>
<td>Primary Riser - Two Conductors #2 Al., Feeding an Overhead Line</td>
<td>5-21-1</td>
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<tr>
<td>Primary Riser - Two Conductors #2 Al., Feeding an Overhead 2-Pot Bank</td>
<td>5-22-1</td>
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<tr>
<td>Primary Riser - Three Conductors #2 Al., Feeding an Overhead Transformer</td>
<td>5-23-1</td>
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<td>Primary Riser - Three Conductors #2 Al.</td>
<td>5-24-1</td>
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<tr>
<td>Primary Riser - Three Conductors #2 Al., Feeding an Overhead Line</td>
<td>5-25-1</td>
</tr>
<tr>
<td>Primary Riser - Three Conductors #2 Al. for Double Circuit Tangent</td>
<td>5-26-1</td>
</tr>
<tr>
<td>Primary Riser - Four Conductors #2 Al. or Three 4/0 Al. with One #2 Al.</td>
<td>5-27-1</td>
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### RISERS

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<thead>
<tr>
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<tbody>
<tr>
<td>Primary Riser - Single Conductor, #4/0 Al., Feeding an Overhead Line</td>
<td>5-28-1</td>
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<tr>
<td>Primary Riser - Three Conductors, #4/0 Al.</td>
<td>5-29-1</td>
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<tr>
<td>Primary Riser - Three Conductors, #4/0 Al., Feeding an Overhead Line</td>
<td>5-30-1</td>
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<tr>
<td>Primary Riser - Three Conductors, #4/0 Al. for Double Circuit Tangent</td>
<td>5-31-1</td>
</tr>
<tr>
<td>Feeder Riser - Pole Mounted Disconnects</td>
<td>5-32-1</td>
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<tr>
<td>Feeder Riser - Pole Mounted Disconnects, Steel Poles</td>
<td>5-33-1</td>
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<tr>
<td>Substation Riser, Pole Mounted Disconnects, Double Circuit with One Circuit Dead-Ended</td>
<td>5-34-1</td>
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<tr>
<td>Feeder Riser - Three Conductors, for Future Overhead Line Relocation</td>
<td>5-35-1</td>
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<tr>
<td>Feeder Riser with Gang Operated Switch</td>
<td>5-36-1</td>
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<td>Feeder Riser With Gang Operated Switch - Steel Pole</td>
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**OBSOLETE - FOR REFERENCE ONLY**

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<tbody>
<tr>
<td>Application of Bandit Clamps and Conduit On Steel Poles</td>
<td>5-38-1</td>
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<tr>
<td>Street Light, 1&quot; Steel Conduit</td>
<td>5-39-1</td>
</tr>
<tr>
<td>1&quot; Steel Riser, Secondary or Service</td>
<td>5-40-1</td>
</tr>
<tr>
<td>100A Cutout-Arrester Combinations</td>
<td>5-41-1</td>
</tr>
<tr>
<td>Feeder Riser - Three Conductors</td>
<td>5-42-1</td>
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<tr>
<td>Feeder Riser, Pole Mounted Disconnects</td>
<td>5-43-1</td>
</tr>
<tr>
<td>Substation Riser - Pole Mounted Disconnects</td>
<td>5-44-1</td>
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<tr>
<td>Substation Riser, Pole Mounted Disconnects, Double Circuit with One Circuit Dead-Ended</td>
<td>5-45-1</td>
</tr>
<tr>
<td>Compatible Unit Coding for Retirement of Non-Standard Pole Risers</td>
<td>5-46-1</td>
</tr>
<tr>
<td>Primary, Feeder, or Secondary, Direct Buried Cable</td>
<td>5-47-1</td>
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</tbody>
</table>
## 22kV SECTION

<table>
<thead>
<tr>
<th>Title/Description</th>
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<tr>
<td>22 kV Terminations</td>
<td>5-48-1</td>
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<tr>
<td>Cutout-Arrester Combinations</td>
<td>5-49-1</td>
</tr>
<tr>
<td>Primary Riser - Single Conductor</td>
<td>5-50-1</td>
</tr>
<tr>
<td>Primary Riser - Two Conductors</td>
<td>5-51-1</td>
</tr>
<tr>
<td>Primary Riser - Three Conductors</td>
<td>5-52-1</td>
</tr>
</tbody>
</table>
Purpose
For installation, removal or replacement of pole risers used in underground distribution construction.

Compatible Unit Coding For “UR” Section

Pole Risers
Primary and secondary pole risers are coded with the prefix UR. The next digit following the prefix is a number that designates a variation in material and framing. The letter “K” is added to the Compatible Unit number if a conduit stub up is required.

Feeder Risers
Feeder risers are coded with the prefix URF. The next digit is a number assigned to a variation in material and framing. Example: URF1UA750K  The shading on the standard drawings indicates which material is included in the bill of material and framing.

Grid Sketch Application
The Compatible Unit is shown on each drawing enclosed in a block with two dashes to indicate that a conductor/cable size identifier is needed to complete the code number.

Example
UR1: To complete the code number, UA2K has to be added to UR1K. This can be done by either of two methods:

1. Enter the wire size UA2K on line 4 of the grid sketch and UR1K on line 5.
2. Enter UR1KUA2K in the area of line 13 through line 18 on the grid.
## 600 V

<table>
<thead>
<tr>
<th>Phase</th>
<th>Cable Size</th>
<th>Riser Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 – 1/0, (#2 N)</td>
<td>2&quot;</td>
</tr>
<tr>
<td></td>
<td>2 – 4/0, (1/0 N)</td>
<td>2&quot;</td>
</tr>
<tr>
<td></td>
<td>2 – 350MCM, (4/0 N)</td>
<td>3&quot;</td>
</tr>
<tr>
<td></td>
<td>2 – 500MCM, (350MCM N)</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Three Phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(120/240 V)</td>
<td>2 – 1/0, #2 PL, (#2 N)</td>
<td>2&quot;</td>
</tr>
<tr>
<td></td>
<td>2 – 4/0, 1/0 PL, (1/0 N)</td>
<td>2&quot;</td>
</tr>
<tr>
<td></td>
<td>2 – 350MCM, 4/0 PL, (4/0 N)</td>
<td>3&quot;</td>
</tr>
<tr>
<td></td>
<td>2 – 500MCM, 350MCM PL, (350MCM N)</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Three Phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(120/208 V or 277/480 V)</td>
<td>3 – 1/0, (#2 N)</td>
<td>2&quot;</td>
</tr>
<tr>
<td></td>
<td>3 – 4/0, (1/0 N)</td>
<td>3&quot;</td>
</tr>
<tr>
<td></td>
<td>3 – 350MCM, (4/0 N)</td>
<td>3&quot;</td>
</tr>
<tr>
<td></td>
<td>3 – 500MCM, (350MCM N)</td>
<td>3&quot;</td>
</tr>
</tbody>
</table>

## 15 kV

<table>
<thead>
<tr>
<th>Phase</th>
<th>Cable Size</th>
<th>Riser Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Phase</td>
<td>1 – #2</td>
<td>2&quot;</td>
</tr>
<tr>
<td></td>
<td>1 – 1/0</td>
<td>2&quot;</td>
</tr>
<tr>
<td></td>
<td>2 – #2</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Three Phase</td>
<td>3 – #2</td>
<td>3&quot;</td>
</tr>
<tr>
<td></td>
<td>3 – 1/0</td>
<td>3&quot;</td>
</tr>
<tr>
<td></td>
<td>3 – 4/0</td>
<td>3&quot;</td>
</tr>
<tr>
<td></td>
<td>3 – 500MCM</td>
<td>4&quot;</td>
</tr>
<tr>
<td></td>
<td>3 – 750MCM</td>
<td>4&quot;</td>
</tr>
</tbody>
</table>
NOTES:

1. TLS CONNECTOR IS FOR ARRESTER EXTENSION ROD CONNECTION TO LIGHTING ARRESTER.

2. BALL STUD IS FOR GROUNDING.

3. BALL STUD IS TO BE INSTALLED WITH FLAT WASHERS AND BELLEVILLE WASHER AS SHOWN ON PAGE 8-12-1.
Underground Distribution Construction Standards

RISERS
HOT STICK OPERATED SWITCHES AND CUTOUTS

42" SPACING MUST BE USED WHEN BOTTOM PHASE IS LOCATED AT 38'-6" ABOVE FINAL GRADE.

34" SPACING MUST BE USED WHEN CROSSARM IS LOCATED AT 37'-10" ABOVE FINAL GRADE.

NOTES:
1. 24" SPACING MAY BE USED WHEN CROSSARM IS LOCATED AT OR BELOW 37' ABOVE FINAL GRADE. 34" SPACING MUST BE USED WHEN CROSSARM IS LOCATED AT 37'-10" ABOVE FINAL GRADE.
2. WHEN CROSSARM IS MOUNTED AT 35' AND BELOW, CUTOUT AND ARRESTORS MAY BE MOUNTED DIRECTLY ON ARM.
3. FUSED CUTOUTS AND SWITCHES ON RISERS SHALL BE LIMITED TO 35' ABOVE GROUND.
4. 18" SPACING MAY BE USED WHEN BOTTOM PHASE IS LOCATED AT OR BELOW 36'-6" ABOVE FINAL GRADE. 42" SPACING MUST BE USED WHEN BOTTOM PHASE IS LOCATED AT 36'-6" ABOVE FINAL GRADE.
5. THERE SHALL NOT BE MORE THAN 42" BETWEEN THE TOP MOUNTING BOLT OF THE SWITCHES AND THE BOTTOM PHASE CONDUCTOR. FOR PRIMARY CONDUCTOR CONSTRUCTION AT LEVELS HIGHER THAN THOSE INDICATED IN NOTES 1 & 3, CONSULT ENGINEERING SERVICES.
6. THE MOUNTING HEIGHT OF BLADE DISCONNECT SWITCHES IS LIMITED TO 35' ABOVE GROUND.

Underground Distribution Construction Standards

REV. UPDATED PAGE NUMBER AND CONTACT INFORMATION.

ISSUE DATE: 01/31/92
REV. DATE: 08/28/12
APPROVAL: B. PRIEST

RISERS
HOT STICK OPERATED SWITCHES AND CUTOUTS

5-4-1
1. All primary high voltage leads and jumpers shall be insulated for protection of birds. This insulation is not adequate for personnel protection or clearance reduction. These conductors shall be installed and operated the same as bare conductors.

2. The mounting height of blade disconnect switches is limited to 35 ft above ground.
* EXTENDED BRACKETS TO BE USED WITH DOUBLE CIRCUIT OVERHEAD.
OUTDOOR TERMINATIONS FOR #2, #4/0, 500MCM AND 750MCM PRIMARY CABLE:

- URBT2A
- URBT40A
- URBT500A
- URBT750A

FOR SHRINK-TYPE TERMINATIONS

SHRINK TYPE

RISERS
TERMINATING EQUIPMENT

Underground Distribution Construction Standards

REV. REFORMAT

ISSUE DATE: 01/16/87
REV. DATE: 08/28/12
APPROVAL: B. PRIEST
1. If plate thickness is 1/2" or less the self drill/self tapping screws (5028982) may be used. If plate thickness is greater than 1/2" drill 3/16" diameter hole for self drill/self tap screws (5028982). Screws shall be placed in slots and not drilled through U-Guard flange to allow thermal expansion.
NOTES:
1. IF PLATE THICKNESS IS 1/2" OR LESS THE SELF DRILL/SELF TAPPING SCREWS (5028882) MAY BE USED. SCREWS SHALL BE PLACED IN SLOTS AND NOT DRILLED THROUGH U-GUARD FLANGE TO ALLOW THERMAL EXPANSION. IF PLATE THICKNESS IS GREATER THAN 1/2" DRILL 3/16" DIAMETER HOLE FOR SELF DRILL/SELF TAP QSCREWS (5028982).
### Wood Pole Risers

<table>
<thead>
<tr>
<th>Material Item</th>
<th>Description</th>
<th>Qty</th>
<th>UOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>5028002</td>
<td>Screw, Lag, Hot Dip Galvanized, 1/4&quot; Dia.</td>
<td>36</td>
<td>ea.</td>
</tr>
<tr>
<td>5039124</td>
<td>Sign, Decal, 5&quot; X 9&quot;</td>
<td>1</td>
<td>ea.</td>
</tr>
<tr>
<td>5035064</td>
<td>Boot, Pole Riser, Class 2 and Lower Poles</td>
<td>1</td>
<td>ea.</td>
</tr>
<tr>
<td>5031717 - 5031721</td>
<td>Mold, Pole Riser</td>
<td>Various</td>
<td>ea.</td>
</tr>
<tr>
<td>5035065</td>
<td>Boot, Pole Riser</td>
<td>1</td>
<td>ea.</td>
</tr>
<tr>
<td>5087791</td>
<td>Boot, Extension (Note 1)</td>
<td>1</td>
<td>ea.</td>
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</table>

### Steel Pole Risers

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<th>Description</th>
<th>Qty</th>
<th>UOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>5004959</td>
<td>Washer, Flat, Cut Steel, Zinc Plated, 1/4&quot;</td>
<td>0.25</td>
<td>lb.</td>
</tr>
<tr>
<td>5028982</td>
<td>Screw, Steel, Self Drilling</td>
<td>36</td>
<td>ea.</td>
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<td>5039124</td>
<td>Sign, Decal, 5&quot; X 9&quot;</td>
<td>1</td>
<td>ea.</td>
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<tr>
<td>5035065 - 5035066</td>
<td>Boot Pole Riser</td>
<td>1</td>
<td>ea.</td>
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<tr>
<td>5031717 - 5031721</td>
<td>Mold, Pole Riser</td>
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### NOTE

1. Optional bottom boot extension used when conduit is offset from pole (max. 16”). Use material item to order.
**Wood Pole Risers**

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<td>ea.</td>
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</tr>
<tr>
<td>5035065</td>
<td>Boot, Pole Riser</td>
<td>1</td>
<td>ea.</td>
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<td>5039124</td>
<td>Sign, Decal, 5&quot; X 9&quot;</td>
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<td>ea.</td>
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<tr>
<td>5035065 - 5035068</td>
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<tr>
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<td>Various</td>
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</table>

**NOTE**

1. Optional bottom boot extension used when conduit is offset from pole (max. 16”). Use material item to order.
ANTI-CLIMBING BARRIER FOR STEEL CONDUIT RISERS WITH STANDOFF BRACKETS.

**URCB**

INSTALLATION: ONE PAIR OF FLAT SHEET BARRIERS ARE POSITIONED FROM GROUND LINE UP ON EACH SIDE OF THE RISER. BOLTS, WASHERS AND NUTS ARE INSTALLED ACROSS THE STANDOFF BRACKETS TO SECURE. ADDITIONAL BOLTS, WASHERS AND NUTS MAY BE INSTALLED IF NECESSARY.

**URBR4BE**

IF THE STEEL CONDUIT MUST BE REMOVED AND A CONCRETE FOUNDATION PREVENTS THE CONDUIT FROM BEING MOVED TO THE POLE, USE URBR4BE WITH BOOT 8038068.

---

**Underground Distribution Construction Standards**

**SRP**

**Proprietary Material**

**RISERS**

**STANDOFF RISER CONVERSION OPTIONS**

**REV: UPDATED STOCK CODES**

**ISSUE DATE:** 04/26/07

**REV. DATE:** 07/30/13

**APPROVAL:** B. PRIEST

5-13-1

05192844.DGN
URBREF

(DOES NOT INCLUDE BOOT, SEE PAGE 2)

CONDUIT END CAPS

2" MIN

NOTE 1

ELLs TO BE 36" RADIUS
PLASTIC CONDUIT

MIN. 2000 PSI CONCRETE
OR EQUIVALENT

BACKFILL AS SPECIFIED

(2) COPPER COMPRESSION
CONNECTORS

2/0 BARE CU. NEUTRAL
(IF REQUIRED)

MIN. 2000 PSI CONCRETE
OR EQUIVALENT

NOTES:

1. HEIGHT OF CONCRETE ENCASEMENT TO BE:
   2 INCHES ABOVE GRADE TYPICAL FOR WOOD POLE.
   24 INCHES ABOVE GRADE WHERE PROTECTION FROM VEHICLES IS NECESSARY.
   FLUSH WITH FOUNDATION OF STEEL POLE OR AS SPECIFIED.

2. CONCRETE SHALL NOT FLOW AROUND WOOD POLE. 12" SONOTUBE OR EQUIVALENT
   FORM MAY BE USED FOR CONCRETE ENCASEMENT FROM 2 FEET BELOW GRADE TO TOP.
   SLOPE TOP AWAY FROM POLE.

3. RISER INSTALLATION DETAILS FOR STEEL POLE MUST BE APPROVED BY SUPERVISOR OR
   PRINCIPAL ENGINEER OF ESD&C PRIOR TO CONSTRUCTION.
SINGLE RISER PLAN

WOOD POLE DETAILS

NOTES:
1. CONDUIT ENCASEMENT TO PROVIDE FLAT PLATFORM FOR RISER BOOT.
2. FOR RISER STUB UP AT DIRECT IMBEDDED POLE, CONTACT E&D'S SUPERVISOR OR PRINCIPAL ENGINEER FOR SPECIFIC DETAILS.
3. FOR THIS DIMENSION:
   - 7" OR LESS, ORDER BOOT URBRBLT7
   - GREATER THAN 7", ORDER BOOT URBRBS

STEEL POLE DETAILS

STEEL POLE DETAILS
DANGER HIGH VOLTAGE INSIDE KEEP OUT

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

LOCATE RISER AT 45 DEG. ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

TOP OF MOLD MUST BE LOCATED BETWEEN 6" ABOVE AND 8" BELOW THE NEUTRAL.

NOTES:

1. FOR STEEL POLE ADD AN "S" TO SUPPLY SELF DRILL/SELF TAP SCREWS AND WASHERS.

2. IF PLATE THICKNESS IS 1/2" OR LESS THE SELF DRILL/SELF TAPPING SCREWS (5028982) MAY BE USED.
   IF PLATE THICKNESS IS GREATER THAN 1/2" DRILL 3/16" DIAMETER HOLE FOR SELF DRILL/SELF TAP SCREWS (5028982).
NOTES:

1. FOR STEEL POLE ADD AN "S" TO SUPPLY SELF DRILL/SELF TAP SCREWS AND WASHERS.

2. IF PLATE THICKNESS IS 1/2" OR LESS THE SELF DRILL/SELF TAPPING SCREWS (5028982) MAY BE USED.
   IF PLATE THICKNESS IS GREATER THAN 1/2" DRILL 3/16" DIAMETER HOLE FOR SELF DRILL/SELF TAP SCREWS (5028982).
**SECTION 5: RISERS**

**UR1KUA2K** Pole Riser with conduit stub-up

- Two Single Phase Risers on a pole see UR2KUA2K
- Three Single Phase Risers on a pole see UR3KUA2K
- Four Single Phase Riser on a pole see UR4KUA2K

This dimension shall be 6" MIN. from the bottom thru bolt securing any primary attachment.

12" MIN. clearance between fuse tube and concentric neutral.

Connect concentric neutrals directly to system neutral using compression connector.

Locate sign "DANGER HIGH VOLTAGE INSIDE KEEP OUT" vertically on riser mold with right hand side at top approx. 8' from grade.

Locate riser at 45° angle to line direction on a non-traffic quadrant, unless exact location is shown on job sketch.

Top of mold must be located between 6" above and 8" below the neutral.

Final Grade

2" Mold

Boot 5035065 (for 2" to 3" mold)

2"

45° Line Direction

12"

2'-6"

34' MAX. Above final grade

**#2 CU Insulated**

(Use compression connector)

Fuse

5034502

85 A

5034505

100 A

Arrester

5033988

9 kV

Stem Connector

**#2 Pole Ground**

**SINGLE CONDUCTOR #2 AL.**

ISSUE DATE: 01/15/87

REV. DATE: 01/03/20

APPROVAL: N. Sabbah
**URV1UA2K** Pole Riser with conduit stub-up

- Two single phase risers on a pole see URV2UA2K
- Three single phase risers on a pole see URV3UA2K

This dimension shall be 6" min. from the bottom thru bolt securing any primary attachment.

- #6 CU Insulated
- 12" MIN. clearance between SW blade and concentric neutral.
- Connect concentric neutrals directly to system neutral using compression connector.

Locate sign "DANGER HIGH VOLTAGE INSIDE KEEP OUT" vertically on riser mold with right hand side at top approx. 8' from grade.

Locate riser at 45° angle to line direction on a non-traffic quadrant, unless exact location is shown on job sketch.

2" Mold Boot 5035065 (for 2" to 3" mold)

34' MAX. Above final grade

Line Direction 45°

SW Blade 300 A

#2 Pole Ground

Arrester 5033988 9 kV

Stem Connector

#2 CU Insulated (Use compression connector)
Pole Riser with conduit stub-up

May be used for two single phase riser.

This dimension shall be 6” MIN. from the bottom thru bolt securing any primary attachment.

May be used for two single phase riser.

12" MIN. clearance between fuse tube and concentric neutral.

Connect concentric neutrals directly to system neutral using compression connector.

Locate sign "DANGER HIGH VOLTAGE INSIDE KEEP OUT" vertically on riser mold with right hand side at top approx. 8’ from grade.

Locate riser at 45° angle to line direction on a non-traffic quadrant, unless exact location is shown on job sketch.

3' - 6'

35' MAX
Above final grade

Final Grade

3" Mold

Boot 5035065 (For 3" Mold)

#6 CU Insulated

#6 CU

3' - 6'

#2 CU Insulated (Use compression connector)

Arrester 5033988
9 kV

Stem Connector

#2 Pole
Ground

Fuse
5034502
85 A
5034632
100 A
URV2UA2K
POLE RISER WITH
CONDUIT STUB-UP

MAY BE USED FOR TWO
SINGLE PHASE RISERS

#2 CU INSULATED
(USE COMPRESSION
CONNECTOR)

ARRESTER
6033988
9kV

STEM
CONNECTOR

#2 POLE
GROUND

SW BLADE
300A

#6 CU INSULATED

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.

LOCATE RISER AT 45 DEG
ANGLE TO LINE DIRECTION ON
A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

3" MOLD

BOOT 6035065
(FOR 3" MOLD)

3'-5"

35' MAX.
ABOVE
FINAL
GRADE

LINE DIRECTION

45 DEG

12"

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

12' MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

35' MAX.
ABOVE
FINAL
GRADE

LINE DIRECTION

45 DEG

12"

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

12' MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

35' MAX.
ABOVE
FINAL
GRADE

LINE DIRECTION

45 DEG

12"

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

12' MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

35' MAX.
ABOVE
FINAL
GRADE

LINE DIRECTION

45 DEG

12"

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

12' MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

35' MAX.
ABOVE
FINAL
GRADE

LINE DIRECTION

45 DEG

12"

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

12' MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

35' MAX.
ABOVE
FINAL
GRADE

LINE DIRECTION

45 DEG

12"

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

12' MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

35' MAX.
ABOVE
FINAL
GRADE

LINE DIRECTION

45 DEG

12"

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

12' MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

35' MAX.
ABOVE
FINAL
GRADE

LINE DIRECTION

45 DEG

12"

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

12' MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.
LOCATE TRIMOUNT BRACKET ON OPPOSITE SIDE OF POLE AND PERPENDICULAR TO CONDUCTORS FOR DEADENDS, PARALLEL TO CONDUCTORS FOR TANGENT AND SLACK SPANS.

ARRESTER 5033988 9KV

12" MINIMUM CLEARANCE BETWEEN OPEN SWITCH BLADE AND CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS DIRECTLY TO SYSTEM NEUTRAL USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

NOTES:
1. FUSED FOR TRANSFORMER SIZE (SEE OH.7-43-1), USE TRANSFORMER COMPATIBLE UNIT FOR TRANSFORMERS.
2. DELETE (2) ARRESTERS (5033988) FROM TRANSFORMER COMPATIBLE UNIT.
3. BLADE SWITCH USED FOR RISER.
1. **Primary Riser - Three Conductors #2 AL Feeding an Overhead Transformer**

   **RISERS**

   **Underground Distribution Construction Standards**

   **Notes:**
   1. Fuse for transformer size (see OHCS 7-43-1). Use transformer compatible unit for transformers.
   2. Delete (3) arresters (5033988) from transformer compatible unit.
   3. Blade switch used for riser.
   4. Evaluate 3 phase pad (preferred) before installation.

   **REV: UPDATED STOCK CODES**

   **ISSUE DATE: 02/13/07**

   **REV. DATE: 12/10/14**

   **APPROVAL: B.PRIEST**

   **SRP PROPRIETARY MATERIAL**

   **5-23-1**
Pole Riser with conduit stub-up
May be used for two single phase riser.

This dimension shall be 6" MIN. from the bottom thru bolt securing any primary attachment.

#2 CU Insulated (Use compression connector)

Arrester
5033988
9 kV

Stem
Connector

#2 Pole
Ground

Fuse
5034502
85A
5034632
100 A

Locate sign "DANGER HIGH VOLTAGE INSIDE KEEP OUT" vertically on riser mold with right hand side at top approx. 8' from grade.

Locate riser at 45° angle to line direction on a non-traffic quadrant, unless exact location is shown on job sketch.

Final Grade

Top of mold must be located between 6" above and 8" below the neutral.

3" Mold
Boot 5035065
(For 3" Mold)

2" 12"

3' 6"

35' MAX. Above final grade

Line Direction

45°

Underground Distribution
Construction Standards

REV: UPDATED FUSE

RISERS
PRIMARY RISER
THREE CONDUCTORS #2 AL.

ISSUE DATE: 01/15/87
REV. DATE: 09/16/19
APPROVAL: N. Sabbah
RISERS
PRIMARY RISER - THREE CONDUCTORS #2 AL.
FEEDING AN OVERHEAD LINE

THIS DIMENSION SHALL BE 6" MIN. FROM THE BOTTOM THRU BOLT SECURING ANY PRIMARY ATTACHMENT.

12' MINIMUM CLEARANCE BETWEEN SW BLADE AND CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS DIRECTLY TO SYSTEM NEUTRAL USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

3" MOLD
BOOT 5035065 (FOR 3" MOLD)

LINE DIRECTION
45 DEG

Underground Distribution Construction Standards

REV: UPDATED STOCK CODES

RISERS
PRIMARY RISER - THREE CONDUCTORS #2 AL.
FEEDING AN OVERHEAD LINE

ISSUE DATE: 01/15/87
REV. DATE: 07/30/13
APPROVAL: B. PRIEST

5-25-1

REV. 5-25-1
DANGER HIGH VOLTAGE
INSIDE KEEP OUT
35’ MAX.
ABOVE FINAL GRADE
TOP OF MOLD MUST BE LOCATED BETWEEN 6” ABOVE AND 8” BELOW THE NEUTRAL.

VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8’ FROM GRADE.

A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

#6 CU LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

12” MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

TOP OF MOLD MUST BE LOCATED BETWEEN 6” ABOVE AND 8” BELOW THE NEUTRAL.

35’ MAX. ABOVE FINAL GRADE

12” MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8’ FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

12” MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8’ FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

12” MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8’ FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

12” MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8’ FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

12” MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8’ FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

12” MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8’ FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.
Pole Riser with conduit stub-up

May be used for four 10 Risers or three 4/0 AL. Conductors with one #2 AL.

Angle cut out to 45° OR 90° TO distinguish single #2 AL. from 3Ø 4/0 AL.

This dimension shall be 6" MIN. from the bottom thru bolt securing any primary attachment.

#2 CU Insulated (Use compression connector)

ARRESTER

#2 Pole Ground

3Ø 4/0 AL.

12" MIN. clearance between fuse tube and concentric neutral.

Connect concentric neutrals directly to system neutral using compression connector.

Locate sign "DANGER HIGH VOLTAGE INSIDE KEEP OUT" vertically on riser mold with right hand side at top approx. 8' from grade.

TOP OF MOLD MUST BE LOCATED BETWEEN 6" ABOVE AND 8" BELOW THE NEUTRAL.

Locate riser on non-traffic quadrant unless exact location is shown on job sketch.

Underground Distribution Construction Standards

REV: UPDATED FUSE

RISERS
PRIMARY RISER
FOUR CONDUCTORS
#2 AL. OR THREE 4/0 WITH ONE #2 AL.

ISSUE DATE: 01/15/87
REV. DATE: 09/18/19
APPROVAL: N. Sabbah

5-27-1
URV1UA40K
POLE RISER WITH
CONDUIT STUB-UP

RISERS
PRIMARY RISER - SINGLE CONDUCTOR #4/0 AL
FEEDING AN OVERHEAD LINE

#6 CU INSULATED

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 6' FROM GRADE.

LOCATE RISER AT 45 DEG
ANGLE TO LINE DIRECTION ON
A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

2" MOLD
BOOT 5035065
(FOR 2" TO 3" MOLD)

TOP OF MOLD MUST BE
LOCATED BETWEEN
6" ABOVE AND 8"
BELOW THE NEUTRAL.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.

THIS DIMENSION SHALL BE 6" MIN.
FROM THE BOTTOM THRU BOLT
SECURING ANY PRIMARY ATTACHMENT.

#2 COPPER INSULATED
JUMPERS

ARRESTER
5033988
9kV

STEM CONNECTOR

#2 POLE GROUND

SW BLADE
300A

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

3'-6" #2 POLE
GROUND

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 6' FROM GRADE.

LOCATE RISER AT 45 DEG
ANGLE TO LINE DIRECTION ON
A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

2" MOLD
BOOT 5035065
(FOR 2" TO 3" MOLD)

TOP OF MOLD MUST BE
LOCATED BETWEEN
6" ABOVE AND 8"
BELOW THE NEUTRAL.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.

THIS DIMENSION SHALL BE 6" MIN.
FROM THE BOTTOM THRU BOLT
SECURING ANY PRIMARY ATTACHMENT.

#2 COPPER INSULATED
JUMPERS

ARRESTER
5033988
9kV

STEM CONNECTOR

#2 POLE GROUND

SW BLADE
300A

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

3'-6" #2 POLE
GROUND

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 6' FROM GRADE.

LOCATE RISER AT 45 DEG
ANGLE TO LINE DIRECTION ON
A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

2" MOLD
BOOT 5035065
(FOR 2" TO 3" MOLD)

TOP OF MOLD MUST BE
LOCATED BETWEEN
6" ABOVE AND 8"
BELOW THE NEUTRAL.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.

THIS DIMENSION SHALL BE 6" MIN.
FROM THE BOTTOM THRU BOLT
SECURING ANY PRIMARY ATTACHMENT.

#2 COPPER INSULATED
JUMPERS

ARRESTER
5033988
9kV

STEM CONNECTOR

#2 POLE GROUND

SW BLADE
300A

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

3'-6" #2 POLE
GROUND

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 6' FROM GRADE.

LOCATE RISER AT 45 DEG
ANGLE TO LINE DIRECTION ON
A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

2" MOLD
BOOT 5035065
(FOR 2" TO 3" MOLD)

TOP OF MOLD MUST BE
LOCATED BETWEEN
6" ABOVE AND 8"
BELOW THE NEUTRAL.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.

THIS DIMENSION SHALL BE 6" MIN.
FROM THE BOTTOM THRU BOLT
SECURING ANY PRIMARY ATTACHMENT.

#2 COPPER INSULATED
JUMPERS

ARRESTER
5033988
9kV

STEM CONNECTOR

#2 POLE GROUND

SW BLADE
300A

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

3'-6" #2 POLE
GROUND

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 6' FROM GRADE.

LOCATE RISER AT 45 DEG
ANGLE TO LINE DIRECTION ON
A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

2" MOLD
BOOT 5035065
(FOR 2" TO 3" MOLD)

TOP OF MOLD MUST BE
LOCATED BETWEEN
6" ABOVE AND 8"
BELOW THE NEUTRAL.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.

THIS DIMENSION SHALL BE 6" MIN.
FROM THE BOTTOM THRU BOLT
SECURING ANY PRIMARY ATTACHMENT.

#2 COPPER INSULATED
JUMPERS

ARRESTER
5033988
9kV

STEM CONNECTOR

#2 POLE GROUND

SW BLADE
300A

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

3'-6" #2 POLE
GROUND

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 6' FROM GRADE.

LOCATE RISER AT 45 DEG
ANGLE TO LINE DIRECTION ON
A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

2" MOLD
BOOT 5035065
(FOR 2" TO 3" MOLD)

TOP OF MOLD MUST BE
LOCATED BETWEEN
6" ABOVE AND 8"
BELOW THE NEUTRAL.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.
RISERS
PRIMARY RISER
THREE CONDUCTORS #4/0 AL.

- Connect concentric neutrals directly to system neutral using compression connector.
- Vertically on riser mold with right hand side at top approx. 8' from grade.
- Locate sign "DANGER HIGH VOLTAGE INSIDE KEEP OUT" vertically on riser mold.
- Locate riser at 45° angle to line direction on a non-traffic quadrant.
- Top of mold must be located between 6' above and 6' below the neutral.
- 12" minimum clearance between SW blade and concentric neutral.
- #6 CU insulated.
- #2 pole ground.
- B. Priest
- Issue date: 01/15/87
- Rev. date: 07/30/13
- Approval: B. Priest

Underground Distribution Construction Standards

REV: UPDATED STOCK CODES

RISERS
PRIMARY RISER
THREE CONDUCTORS #4/0 AL.

ISSUE DATE: 01/15/87
REV. DATE: 07/30/13
APPROVAL: B. PRIEST
DANGER HIGH VOLTAGE
INSIDE KEEP OUT

35' MAX.
ABOVE
FINAL
GRADE

TOP OF MOLD MUST BE
LOCATED BETWEEN
6" ABOVE AND 8"
BELOW THE NEUTRAL.

VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.

A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

#6 CU
LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
STEM
CONNECTOR

12" MINIMUM CLEARANCE
BETWEEN SW BLADE AND
CONCENTRIC NEUTRAL

CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

LOCATE RISER AT 45 DEG
ANGLE TO LINE DIRECTION ON
A NON-TRAFFIC QUADRANT,
UNLESS EXACT LOCATION IS
SHOWN ON JOB SKETCH.

LOCATE SIGN "DANGER HIGH
VOLTAGE INSIDE KEEP OUT"
VERTICALLY ON RISER MOLD
WITH RIGHT HAND SIDE AT
TOP APPROX. 8' FROM GRADE.

3" MOLD
BOOT 5035067
(FOR 3" MOLD)

12"
2"
12"

35' MAX.
ABOVE FINAL
GRADE

Final Grade

RISERS
PRIMARY RISER
THREE CONDUCTORS #4/0 AL
FOR DOUBLE CIRCUIT TANGENT

Underground Distribution
Construction Standards

REV: UPDATED STOCK CODES

UR3EKUA40K
(3" MOLD) POLE RISER
WITH CONDUIT STUB-UP

UR3EK4UA40K
(4" MOLD) FOR REMOVAL
OF OLD 4" RISERS

#6 CU INSULATED
(USE COMPRESSION CONNECTORS)

#2 POLE GROUND

#2 POLE GROUND

SW BLADE 300A

#6 CU INSULATED

#6 CU INSULATED

#6 CU INSULATED

3'-6"
SW.
BLADE

#6 CU INSULATED

#6 CU INSULATED

#6 CU INSULATED

BETWEEN SW BLADE AND
CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

#2 POLE GROUND

ARRESTER
5033988
9KV

STEM CONNECTOR

#2 POLE GROUND

3'-6"
SW.
BLADE

#6 CU INSULATED

#2 POLE GROUND

ARRESTER
5033988
9KV

STEM CONNECTOR

3'-6"
SW.
BLADE

#6 CU INSULATED

#6 CU INSULATED

#6 CU INSULATED

12"
2"
12"

#2 CU INSULATED
(USE COMPRESSION CONNECTORS)

3'-6"
SW.
BLADE

#6 CU INSULATED

#6 CU INSULATED

BETWEEN SW BLADE AND
CONNECT CONCENTRIC NEUTRALS
DIRECTLY TO SYSTEM NEUTRAL
USING COMPRESSION CONNECTOR.

#2 POLE GROUND

ARRESTER
5033988
9KV

STEM CONNECTOR

3'-6"
SW.
BLADE

#6 CU INSULATED

#6 CU INSULATED

#6 CU INSULATED

12"
2"
12"

#2 POLE GROUND

ARRESTER
5033988
9KV

STEM CONNECTOR

3'-6"
SW.
BLADE

#6 CU INSULATED

#6 CU INSULATED

#6 CU INSULATED

12"
2"
12"
U-GUARD RISERS CAN BE BOLTED TO THE STEEL POLES BY DRILLING AND TAPPING Holes IN THE POLE, OR BY USING SELF DRILL/SELF TAP SCREWS (5028982), WHEN THE FOLLOWING CONDITIONAL REQUIREMENTS ARE MET:

1. IF PLATE THICKNESS IS 1/2 INCH OR LESS, THE SELF DRILL/SELF TAPING SCREWS (5028982) MAY BE USED.

2. IF PLATE THICKNESS IS 5/8 INCH OR GREATER, DRILL AND TAP FOR THE 1/4 INCH BOLTS. USE 3/16 INCH DRILL BIT.

3. USE LOCK-ITTE WITH THE 1/4 INCH BOLTS.

4. IF U-GUARD IS EVER REMOVED, THE DRILLED AND TAPPED HOLES MUST HAVE BOLTS REINSTALLED.

5. THE ATTACHING SCREWS SHALL BE INSTALLED IN ALL AVAILABLE SLOTS. SEE "STEEL POLE MOUNTING" PAGE 5-10-1 AND 5-11-1.

6. INDIVIDUAL PROPOSED INSTALLATION MUST BE APPROVED BY MANAGER OF TRANSMISSION.

7. FOR 750MCM CABLE, SEE TERMINATION DETAILS ON PAGE 5-3-1.

8. DESIGNER: A BOOT IS NOT INCLUDED IN THIS COMPATIBLE UNIT AND MUST BE ORDERED. SEE URBRF, "STEEL POLE DETAILS" NOTE 3 TO DETERMINE PROPER BOOT. IF BOOT URBRBS IS NEEDED, CONTACT MACHINE SHOP.

9. IF RUNNING LINE IS 288A, 800V 350A JUMPER MAY BE USED.
For 750 MCM cable termination, see page 5-3-1.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

NOTE: TO CONVERT EXISTING TO G.O.S.: REMOVE ONE DB6VE CONSTRUCT ONE DGR6. SEE DGR6 CLEARANCE REQUIREMENTS.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

35' MAX. ABOVE FINAL GRADE

SEE UNDERGROUND DUCTS SUBSTATION RISER STUB-UP FOR DETAIL

LOCATE SIGN "WARNING HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE

WARNING: UNDERGROUND DISTRIBUTION CONSTRUCTION STANDARDS

APPROVAL: B. PRIEST

ISSUE DATE: 02/04/88

REV. DATE: 07/31/13

REVISED: UPDATED STOCK CODES

RISERS
SUBSTATION RISER POLE MOUNTED DISCONNECTS
DOUBLE CIRCUIT WITH ONE CIRCUIT DEAD-ENDED

U7FUA750K 500MCM AL
U7FUA750K 750MCM AL
U7FUC750K 750MCM CU

POLE RISER WITH STUB-UP AND BOOT

Underground Distribution Construction Standards

Proprietary Material

5-34-1

5893E262.DGN
FOR 750MCM CABLE TERMINATION, SEE PAGE 5-3-1.

3/07 MCM AA AND INSULATING TUBE

ARRESTER 5033991
9KV HEAVY DUTY

NOTE:
- THIS FRAMING IS FOR INSTALLATION ON POLES 45' OR TALLER.
- POLE RISER WITH CONDUIT STUB-UP AND BOOT (SEE UNDERGROUND DUCTS SUBSTATION RISER STUB-UP FOR DETAIL)

LOCATE SIGN "WARNING HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

TOP OF MOLD MUST BE LOCATED BETWEEN 6" ABOVE AND 8" BELOW THE NEUTRAL.

NOTE:
- THIS STANDARD IS PROVIDED FOR USE WHEN INSTALLING A FEEDER RISER OUT OF LINE WITH AN OVERHEAD WHICH IS GOING TO BE RELOCATED. THE RISER POLE IS TO BE SET IN THE NEW ALIGNMENT.

NOTE:
- THIS FRAMING IS FOR INSTALLATION ON POLES 45' OR TALLER.
- POLE RISER WITH CONDUIT STUB-UP AND BOOT (SEE UNDERGROUND DUCTS SUBSTATION RISER STUB-UP FOR DETAIL)

URF1AUA500K
URF1AUA750K

POLAR STUD
TLS CONNECTOR (5016725)
ARRESTER EXTENSION ROD (5033967)
CONNECTOR ARRESTER CLAMP (5033968)
ARRESTER GROUND LEAD (5033990)

NOTE:
- THIS STANDARD IS PROVIDED FOR USE WHEN INSTALLING A FEEDER RISER OUT OF LINE WITH AN OVERHEAD WHICH IS GOING TO BE RELOCATED. THE RISER POLE IS TO BE SET IN THE NEW ALIGNMENT.

Underground Distribution Construction Standards

RISERS
FEEDER RISER - THREE CONDUCTORS
FOR FUTURE OVERHEAD LINE RELOCATION

REV: UPDATED STOCK CODES

ISSUE DATE: 01/15/87
REV. DATE: 07/31/13
APPROVAL: B. PRIEST

REV: UPDATED STOCK CODES

URF1AUA500K
URF1AUA750K

Pole Riser with Conduit Stub-Up and Boot (See Underground Ducts Substation Riser Stub-Up for Detail)
SEAL CROSSARM

THE JUMPER BETWEEN SWITCH AND LINE SHALL BE 367MCM AA AND INSULATING TUBE NOTE 3.

CROSSARM

BALL STUD (5016640)

TLS CONNECTOR (5016725)

ARRESTER EXTENSION ROD (5033987)

CONNECTOR ARRESTER CLAMP (5033989)

ARRESTER GROUND LEAD (5033990)

#2/0 CU POLE GROUND

TOP OF MOLD MUST BE LOCATED BETWEEN 6" ABOVE TO 8" BELOW NEUTRAL.

LOCATE SIGN "WARNING HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROXIMATELY 8' FROM GRADE.

#2/0 CU

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

FOR 750MCM CABLE, SEE TERMINATION DETAILS ON P 5-3-1.

OPERATING ROD GUIDES: TOP BOLT EYE SHALL NOT BE GREATER THAN 5 FT FROM SWITCH CRANK; BOTTOM BOLT EYE SHALL NOT BE LOWER THAN 8 FT FROM GRADE; INTERMEDIATE BOLT EYES SHALL NOT BE SPACED GREATER THAN 5 FT.

IF RUNNING LINE IS 296A, 600V 350A JUMPER MAY BE USED.

NOTES:

1. FOR 750MCM AL (4" MOLD)
2. FOR 750MCM CU (4" MOLD)
3. FOR 4/0 AL (3" MOLD)
4. FOR 4/0 AL (4" MOLD) FOR REMOVAL OF OLD 4" RISERS

POLE RISERS WITH CONDUIT STUB-UP AND BOOT

URF3UA750K 750MCM AL (4" MOLD)

URF3UC750K 750MCM CU (4" MOLD)

URF3UA40K 4/0 AL (3" MOLD)

URF3UA40K 4/0 AL (4" MOLD) FOR REMOVAL OF OLD 4" RISERS

REV: UPDATED STOCK CODES
LOCATE SIGN "WARNING HIGH VOLTAGE INSIDE  KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROXIMATELY 8' FROM GRADE.

TOP OF MOLD MUST BE LOCATED BETWEEN 6" ABOVE TO 8" BELOW NEUTRAL.

U-GUARD RISERS CAN BE BOLTED TO THE STEEL POLES BY DRILLING AND TAPPING HOLES IN THE POLE, OR BY USING SELF DRILL/Self TAP SCREWS (5028982) WHEN THE FOLLOWING CONDITIONAL REQUIREMENTS ARE MET:

1. IF PLATE THICKNESS IS 1/2 INCH OR LESS, THE SELF DRILL/Self TAPPING SCREWS MAY BE USED.
2. IF PLATE THICKNESS IS 5/8 INCH OR GREATER, DRILL AND TAP FOR THE 1/4 INCH BOLTS. USE 3/16 INCH DRILL BIT.
3. USE LOCK-TITE WITH THE 1/4 INCH BOLTS.
4. IF U-GUARD IS EVER REMOVED, THE DRILLED AND TAPPED HOLES MUST HAVE BOLTS REINSTALLED.
5. THE ATTACHING SCREWS SHALL BE INSTALLED IN ALL AVAILABLE SLOTS. "STEEL POLE MOUNTING" PAGES 5-10-1 AND 5-11-1.
6. INDIVIDUAL PROPOSED INSTALLATION MUST BE APPROVED BY MANAGER OF TRANSMISSION.
7. FOR 750MCM CABLE, SEE TERMINATION DETAILS ON PAGE 5-3-1.
8. DESIGNER: A BOOT IS NOT INCLUDED IN THIS COMPATIBLE UNIT AND MUST BE ORDERED. SEE URBPRF, "STEEL POLE DETAILS" NOTE 3, TO DETERMINE PROPER BOOT. IF BOOT URBBS IS NEEDED, CONTACT MACHINE SHOP.
9. OPERATING ROD GUIDES: TOP BOLT EYE SHALL NOT BE GREATER THAN 5 FT FROM SWITCH CRANK; BOTTOM BOLT EYE SHALL NOT BE LOWER THAN 8 FT FROM GRADE; INTERMEDIATE BOLT EYES SHALL NOT BE SPACED GREATER THAN 5 FT.
10. IF RUNNING LINE IS 268A, 500V 350A JUMPER MAY BE USED.
APPLICATION INSTRUCTIONS

1. Use band from roll and cut to fit.
2. Bend end of band under buckle.
3. Slide bracket and clamp onto band.
4. Place remaining end of band thru buckle and using tool, tighten until band doesn't move.
5. Bend band over buckle using the tool while releasing tension.
6. Cut band and bend tabs over band.

BUCKLE
BUCKLE 5035078
BAND 5034855

BRACKET 5035071
CLAMP 5021105

COMPLETE ASSEMBLY

1 INCH STEEL RISER

2' MAX.

6' MAX.

Underground Distribution Construction Standards

REV: UPDATED STOCK CODES

RISERS
APPLICATION OF BANDIT-CLAMPS AND CONDUIT ON STEEL POLES

ISSUE DATE: 06/11/88
REV. DATE: 07/31/13
APPROVAL: B.PRIEST

5-38-1
8543869.DGN
WIRE SIZES:
UDX2
UDX2D
UDX2L
UDX8D
UDX8L
UTXK8D
UTXK8L

WHEN SERVING STREET LIGHT OR D. TO D. LIGHT WITH #6 TX, GROUND THE BLACK/GREEN STRIPED CONDUCTOR

LOCATION OF RISER TO BE DETERMINED ON ESTIMATOR'S GRID SKETCH

URBR1

FINAL GRADE

STUB UP ENOUGH CIC TO REACH THE TRANSFORMER BUSHINGS. REMOVE CONDUIT TO WITHIN 1 FOOT OF BOTTOM OF THE RISER. PUSH CONDUCTORS UP THRU STEEL RISER.
NOTE:
1. A minimum of six clamps are to be utilized spaced at even intervals.
2. No SAP material number exists.
URBC1
URBC1M WITHOUT MOUNTING HARDWARE

OBSOLETE: FOR REFERENCE ONLY

URBC4

RISERS
100A CUTOUT-ARRESTER COMBINATIONS

ISSUE DATE: 01-15-87
REV. DATE: 09-28-12
APPROVAL: B. Priest
NOTES:
1. See Underground Ducts Substation Riser Stub-up for detail.
2. See Detail "A" on UR3 for support grip installation.
3. For 750MCM cable, see Termination Details on page 5-3-1.
4. No SAP material number exists.

This dimension shall be 6" min. from the bottom thru-bolt securing any primary attachment.

The jumper between switch and line shall be 397 MCM AA.

Locate riser at 45 deg angle to line direction on a non-traffic quadrant unless exact location is shown on job sketch.

Ref: 5-43-1
**INCLUDES POLE RISER, ARRESTOR, TERMINATION AND SWITCH**

**EXCLUDES THE SWITCH**

UNDERGROUND DISTRIBUTION CONSTRUCTION STANDARDS

ISSUE DATE: 01-15-87
REV. DATE: 09-28-12
APPROVAL: B. Priest

5-44-1

URF2AUA500K *
URF5AUA500K **

THIS DIMENSION SHALL BE 6” MIN. FROM THE BOTTOM THRU BOLT SECURING ANY PRIMARY ATTACHMENT.

35’ MAX. ABOVE FINAL GRADE

3’-0”

12

3’-0”

TOP OF MOLD MUST BE LOCATED BETWEEN 6” ABOVE AND 8” BELOW THE NEUTRAL.

LOCATE SIGN “DANGER HIGH VOLTAGE INSIDE KEEP OUT” VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8’ FROM GRADE.

LOCATE RISER AT 45’ ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT.

SEE UNDERGROUND DUCTS SUBSTATION RISER STUBUP FOR DETAIL.

FINALGRADE

3’-4”

TELCO

URBR4

387 MCM AA

2/0 C.U.

2/0 C.U. POLE GROUND

SEE DETAIL ‘A’ ON UR3 FOR SUPPORT GRIP INSTALLATION

* INCLUDES POLE RISER, ARRESTOR, TERMINATION AND SWITCH

** EXCLUDES THE SWITCH
## COMPATIBLE UNIT CODING FOR RETIREMENT OF NON-STANDARD POLE RISERS

<table>
<thead>
<tr>
<th>RISER DIMENSIONS (Inches)</th>
<th>Distribution (Primary &amp; Secondary)</th>
<th>Streetlight</th>
<th>Security Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riser Material: <strong>STEEL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1”</td>
<td>RUR1</td>
<td>RUR1L</td>
<td>RUR1D</td>
</tr>
<tr>
<td>1-1/2”</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2”</td>
<td>RUR2</td>
<td>RUR2L</td>
<td></td>
</tr>
<tr>
<td>3”</td>
<td>RUR3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4”</td>
<td>RUR4</td>
<td>RUR4L</td>
<td></td>
</tr>
<tr>
<td>5”</td>
<td>RUR5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6”</td>
<td>RUR6</td>
<td></td>
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</tr>
<tr>
<td>Riser Material: <strong>ALUMINUM</strong></td>
<td></td>
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<tr>
<td>3”</td>
<td>RUR3A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4”</td>
<td>RUR4A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5”</td>
<td>RUR5A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Riser Material: <strong>PLASTIC</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1”</td>
<td>RURBR1</td>
<td>RURBR1L</td>
<td>RURBR1D</td>
</tr>
<tr>
<td>2”</td>
<td>RURBR2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3”</td>
<td>RURBR3</td>
<td></td>
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</tr>
<tr>
<td>4”</td>
<td>RURBR4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Service Risers**

- Plastic – All Sizes: RURBSR
- Steel – All Sizes: RURBSRS

The removal of the wire in the riser should be shown separately on the grid, using the conductor code from pg. 8-35-1.
DANGER HIGH VOLTAGE INSIDE KEEP OUT

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 6' FROM GRADE

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION AT FINAL GRADE MOLD. LOCATION UNLESS EXACT LOCATION SHOWN ON JOB SKETCH

LOCATE RISERS ONLY FOR REFERENCE.
NOTE:
SEE 12kV RISER SECTION FOR BRACKETS ONLY.
22kV RISERS
CUTOUT-ARRESTER COMBINATIONS

URBC12

URBC32

URBC52 40" TRI-MOUNT BRACKET

URBC42 BRACKET, ARRESTER AND ALL HARDWARE

URBA18 ARRESTER ONLY

URBCF12M BRACKET, ARRESTER AND ALL HARDWARE

CUTOUT ONLY
DANGER HIGH VOLTAGE
INSIDE KEEP OUT

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT, UNLESS EXACT LOCATION IS SHOWN ON JOB SKETCH.

12" MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS DIRECTLY TO SYSTEM NEUTRAL USING COMPRESSION CONNECTOR.

34' MAX. ABOVE FINAL GRADE

#6 CU INSULATED

#2 POLE GROUND

#2 CU INSULATED (USE COMPRESSION CONNECTOR)

ARRESTER 5034088 18KV

STEM CONNECTOR

#2 POLE GROUND

12" MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS DIRECTLY TO SYSTEM NEUTRAL USING COMPRESSION CONNECTOR.

34' MAX. ABOVE FINAL GRADE

#6 CU INSULATED

#2 POLE GROUND

#2 CU INSULATED (USE COMPRESSION CONNECTOR)

ARRESTER 5034088 18KV

STEM CONNECTOR

#2 POLE GROUND

12" MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS DIRECTLY TO SYSTEM NEUTRAL USING COMPRESSION CONNECTOR.

34' MAX. ABOVE FINAL GRADE

#6 CU INSULATED

#2 POLE GROUND

#2 CU INSULATED (USE COMPRESSION CONNECTOR)

ARRESTER 5034088 18KV

STEM CONNECTOR

#2 POLE GROUND

12" MINIMUM CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL.

CONNECT CONCENTRIC NEUTRALS DIRECTLY TO SYSTEM NEUTRAL USING COMPRESSION CONNECTOR.

34' MAX. ABOVE FINAL GRADE

Underground Distribution Construction Standards

REV: UPDATED STOCK CODES

5-50-1
POLE RISER WITH CONDUIT STUB-UP
(AS SHOWN ON UR1K)

UR2KUA102K

Pole riser with conduit stub-up (as shown on UR1K).

URBC52

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

ARRESTER 5034088 18KV

3'-6" MAX. TO FINAL GRADE

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

UR2KUA102K

POLE RISER WITH CONDUIT STUB-UP
(AS SHOWN ON UR1K)

URBC52

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT

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ARRESTER 5034088 18KV

3'-6" MAX. TO FINAL GRADE

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

UR2KUA102K

POLE RISER WITH CONDUIT STUB-UP
(AS SHOWN ON UR1K)

URBC52

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

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ARRESTER 5034088 18KV

3'-6" MAX. TO FINAL GRADE

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

UR2KUA102K

POLE RISER WITH CONDUIT STUB-UP
(AS SHOWN ON UR1K)

URBC52

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT

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ARRESTER 5034088 18KV

3'-6" MAX. TO FINAL GRADE

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

UR2KUA102K

POLE RISER WITH CONDUIT STUB-UP
(AS SHOWN ON UR1K)

URBC52

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

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ARRESTER 5034088 18KV

3'-6" MAX. TO FINAL GRADE

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL

UR2KUA102K

POLE RISER WITH CONDUIT STUB-UP
(AS SHOWN ON UR1K)
POLE RISER WITH CONDUIT STUB-UP (AS SHOWN ON UR1K)

URBC32

#2CU INSULATED JUMPERS USE COMPRESSION CONNECTOR

THIS DIMENSION SHALL BE 3" FROM THE BOTTOM THRU BOLT SECURING ANY PRIMARY ATTACHMENT

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL.

LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT" VERTICALLY ON RISER MOLD WITH RIGHT HAND SIDE AT TOP APPROX. 8' FROM GRADE.

LOCATE RISER AT 45 DEG ANGLE TO LINE DIRECTION ON A NON-TRAFFIC QUADRANT

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL.

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LOCATE SIGN "DANGER HIGH VOLTAGE INSIDE KEEP OUT"

12" MIN. CLEARANCE BETWEEN FUSE TUBE AND CONCENTRIC NEUTRAL.

22kV RISERS

PRIMARY RISER-THREE CONDUCTORS

REV: UPDATED STOCK CODES

ISSUE DATE: 01/16/87
REV. DATE: 07/31/13
APPROVAL: B. PRIEST

5-52-1