**SECTION 3**  
**SERVICE ENTRANCE SECTION – UNDERGROUND**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Riser Requirements</td>
<td>3-1</td>
</tr>
<tr>
<td>Temporary Service, Underground, 225 Amps Maximum</td>
<td>3-2</td>
</tr>
<tr>
<td>Permanent Underground Section Used for Early Power, 320 Amps Max. Residential, 200 Amps Max. Commercial</td>
<td>3-3</td>
</tr>
<tr>
<td>Permanent Residential Section Used for Early Power 320 Class Maximum</td>
<td>3-5</td>
</tr>
<tr>
<td>Permanent Apartment House Section Connection and Socket/Tap Location</td>
<td>3-6</td>
</tr>
<tr>
<td>General Information for Underground Installation</td>
<td>3-7</td>
</tr>
<tr>
<td>Service Entrance Section, 225 Amps Max. on Equipment Mounting Structure</td>
<td>3-8</td>
</tr>
<tr>
<td>Meter Posts, 200 Amps Maximum Total Service</td>
<td>3-9</td>
</tr>
<tr>
<td>Meter Posts, Special 2-Wire Applications Only, 30 Amps Maximum</td>
<td>3-11</td>
</tr>
<tr>
<td>Meter Post Installation, 30 Amps and 200 Amps Maximum</td>
<td>3-12</td>
</tr>
<tr>
<td>Service and Meter Pedestal, Commercial Application Only, 200 Amps Maximum</td>
<td>3-13</td>
</tr>
<tr>
<td>Service and Meter Pedestal, Commercial Application Only, 200 Amps Maximum (Installation Details)</td>
<td>3-15</td>
</tr>
<tr>
<td>Residential All-In-One, Surface Mount, 225 Amps Maximum</td>
<td>3-16</td>
</tr>
<tr>
<td>Residential All-In-One, Semi-Flush, 400 Amps Maximum</td>
<td>3-17</td>
</tr>
<tr>
<td>Overhead to Underground Modification</td>
<td>3-19</td>
</tr>
<tr>
<td>Residential Underground/Overhead, 1Ø Only, Surface Mount, 400 Amps Max., Class 320 Only</td>
<td>3-20</td>
</tr>
<tr>
<td>Meter Box Installation, 400–600 Amps Maximum</td>
<td>3-21</td>
</tr>
<tr>
<td>Typical Multiple Meter Installation</td>
<td>3-22</td>
</tr>
<tr>
<td>DESCRIPTION</td>
<td>PAGE</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Typical Meter Installation, 0–800 Amps, Landing Terminals in Gutter</td>
<td>3-23</td>
</tr>
<tr>
<td>Residential Multiple Occupancy Service, Six Meters, 600 Amps Max.,</td>
<td>3-24</td>
</tr>
<tr>
<td>120–240 V Underground, 1Ø, 3-Wire</td>
<td></td>
</tr>
<tr>
<td>H-Frame Max Meter Installation, 800 Amp Max.</td>
<td>3-25</td>
</tr>
</tbody>
</table>
NOTES
1. Customer to install approved 2,500 pound, continuous (no tied pieces), non-conductive, pre-lubricated, flat pull tape. Pull tape shall be free moving and not glued to conduit. Approved suppliers are listed in Section 11 - Contractor-Supplied Material.
2. Service riser and nipples shall be bonded unless self-bonding hubs are used.
3. Riser to be plumb and fastened securely using threaded fasteners and clamps designed for the purpose. Back of clamp shall be flush mounted to wall or wall projection. Clamps fastened to wood post with 3/8" minimum through bolts or studs (frame type) and/or masonry (block type) walls with threaded fasteners, size 1/4" X 2" lag screws (sheet rock screws are not acceptable). Bracket not required if the riser is installed in stem wall for semi-flush mount SES.
4. Riser conduit diameter shall match Customer conduit, and be rigid steel, intermediate metal conduit, or approved fiberglass. Metal conduits installed underground shall be wrapped with a UL-approved PVC tape overlapped a minimum half the tape width to at least 6" above finished grade. Shall comply with NEC 230.50 "Protection Against Physical Damage".
5. The service conduit riser shall be continuous rigid steel or intermediate conduit (no EMT). If a coupling is necessary, it shall be a threaded coupling only; compression couplings shall not be used.
6. Sweeps and bends shall be 36" radius.
7. Riser transition coupling shall be threaded PVC for steel risers or PVC slip couplings for fiberglass risers.
8. No type of reducer is allowed except at the pull section of the meter panel. Refer to page 6-3, Reducer at Pull Section.
9. Refer to page 5-4, Joint Trench with Gas.
10. See page 9-1 for meter accessibility and location requirements. See page 5-16 for meter workspace requirements.
NOTES

1. Customer (or Customer's electrical contractor) shall install a temporary SES, as directed by the Distribution Design.

2. Maintain 36" radial clearance, as illustrated on page 5-16, from side of electrical equipment to nearest gas facility vent.

3. Greater depth may be required to stabilize pole. Pole must be stabilized.

4. Conduit installed in public utility easement and ROW. Conduit at 4' minimum cover.

5. Continuous, non-conductive, flat, 2,500 lb, pre-lubricated tape (free moving and not glued to conduit) shall be installed in conduit - string or rope is not acceptable.

6. SRP will provide, install and remove temporary service conductors. Temporary service must be removed from conduit prior to installation of permanent service.

7. All requirements on page 3-1, Service Riser Requirements, apply.

8. For meter post type installations, see page 3-9, Meter Posts.

9. For other types, contact SRP's Distribution Design department.
SECTION 3: SES – UNDERGROUND

Construction power may be provided from a permanent SES at a single-family dwelling, one of the permanent separate SES’s at a multiplex dwelling (if a multi-meter SES is used, see apartment complex requirements), and a separate SES house panel at an apartment complex.

An AHJ Clearance and successful SRP inspection of the SES is required. Not all municipalities allow this.

I. Requirements

A. SRP transformer(s) must be energized.

B. The following structural requirements shall be met:
   1. The form to be used for the stem wall or slab must be installed on final grade at the location of the SES.
   2. The SES uprights shall be installed adjacent to this form, so the resulting wall materials will be flush.
   3. The uprights shall be installed in 12” diameter sonotubes, extending 24” below final grade and filled with 2500 psi minimum strength, or class C concrete per Mag section 725.
   4. The uprights shall be tied into the house structure upon completion of the wall.

C. Main breaker shall be installed.

D. All requirements for permanent service (meter height above final grade, distance from front corner, fastening requirements, conduit size and type and 2,500 lb. continuous, non-conductive, flat pull tape installed, etc.) shall apply.

E. Site address shall be permanently attached to SES. For clarification, see Section 9 – Metering & SES, Service Entrance Section, Addressing and Identification.

F. Early power at an apartment complex has the following additional requirements:
   1. A separate SES for the permanent house panel shall be located within five feet of the multi-meter SES location and fed directly from the SRP transformer.
   2. The house panel contains the required safety socket.
   3. The receptacle or tap for early power must be located on the Customer's side of the SES and NOT at the bottom of SRP's sealed safety socket.
   4. Disconnects shall be clearly labeled for the house panel and the multi-meter panel.

II. Process

A. Customer must meet all requirements prior to initiating the request for service.

B. Customer to call Residential Customer Services (see Contact Information):
   1. Request early power service.
   2. Specify the address.
3. Specify the party to be billed for electric service.
4. Sign contract.
5. Verify municipal clearance has been obtained.

C. Customer to advise SRP when the residential account is to be transferred.

III. Additional Information

A. A mobilization fee will be assessed to the Customer if, upon a second attempt, the electric service crew cannot install service. Check with the Distribution New Business Division for current fees.

B. A fee will be assessed to the Customer if the meter is damaged during use. Check with Residential Customer Services for current fees.

C. SRP will not be liable for any malfunction of, or damage to, the Customer’s equipment resulting from failure of SRP’s equipment.

D. The load-side bus will be energized upon setting the meter if clearance from the AHJ has been obtained.

E. When SRP installs the meter, a warning decal will be placed on the interior breaker panel cover of the service section and a lock installed on the breaker panel. When Customer removes this lock, the Customer assumes all responsibility for the service section.

F. Contact Residential Customer Services if there are any questions concerning this process.
NOTES
1. Backer board with vapor barrier and galvanized mud pan (see detail).
2. Connect ground and neutral bus.
3. Uprights to be 12-gauge (2.6mm) angle steel 1\%" X 3 \%" galvanized OR structural studs 3\%" web, 1\%" flange. 12-gauge galvanized braces attached using threaded fasteners.
4. Riser shall be installed in line with upright.
5. Upright spacing same as section mounting width.
6. Approved grounding electrode: local municipal codes shall prevail. If no local code exists, use NEC Bonding/Grounding Requirements; see NEC 250-50 for grounding electrode systems.
7. Uprights installed in minimum 12" diameter sonotubes at final grade extending 24" below grade. Tubes to be filled with 2500 psi minimum strength or Class C concrete per MAG Section 725.
8. Conduit riser: all requirements on ESS 3-1, Service Riser Requirements apply.
1. Early power socket/tap shall be located on Customer side of the service section.
I. The Customer installs, owns and maintains the SES and riser in accordance with SRP’s applicable rates and extension rules and requirements – there are no exceptions. Facilities beyond the POD must comply with all local, city and/or NEC. SRP utilizes the EUSERC specifications for SES.

II. Prior to the installation of the service conduit, the Customer shall obtain SRP approval of the SES location. The Customer installs service conduit from an SRP-approved POD to the Customer’s SES equipment. The Customer is responsible for the conduit system until service conductors are installed.

III. The SRP service lateral will be installed only after SRP and the AHJ approve the installation. Trenching and conduit must be inspected prior to backfill.

IV. No meter may be installed until an application for service is made.

V. Customer-Owned Service
   A. The POD for a Customer-owned service is usually the secondary bushings of the transformer. The Customer assumes all responsibility to supply, install, own and maintain these cables. Cables, conduits and support facilities located on the load side of the POD must comply with the requirements of the AHJ.
      1. Because the service cables are Customer-owned, installed and maintained, the ESS requirements relating to access to the pull section are waived, however access requirements to the transformer and all other requirements for meter rooms apply.
      2. SRP can supply and install the cable connectors at the POD provided the cables are 750 MCM aluminum or copper using concentric or compressed stranding. Any other wire size will require the Customer to supply and install standard NEMA two-hole connectors. An SRP representative must be present when cable connectors are installed to verify height and orientation to the transformer secondary bushings.
      3. The proposed size and number of cables are to be reviewed and approved for ampacity under the anticipated operating conditions encountered in a desert environment by the AHJ.
      4. The Customer shall identify the ends of each cable in the transformer with colored tape as follows: A phase = Red, B phase = Yellow, C phase = Blue.

VI. Excavations
   A. Contact SRP Design for trenching requirements.
   B. See page 6-4 for Customer excavation limits.

VII. Conduit and Riser Requirements – See page 6-1 for conduit and riser requirements.

VIII. Clearance Requirements – See Section 5 for clearance requirements.
NOTES
1. General Requirements
   A. SRP reserves the right to determine the Customer's service pole location, and only authorized SRP personnel of the Distribution
      Design department will determine this location.
   B. Do not mount SES and Customer attachments on SRP facilities (see page 2-1).
   C. Maintain a minimum 36" radial separation from the side of the SES to the nearest gas facility vent.
   D. Grounding shall comply with the NEC or local inspection agency.
   E. All detached services require an address tag. Refer to page 9-10 & 11 for I.D. tags.
2. SES Requirements
   A. The height to the center of the meter is preferred to be 5' (4' min, 6'-3" max.).
LEGEND

1. Outside finish of a single meter post shall be corrosion resistant. See Section 9-Metering & SES, Pre-Approved Meter Pedestals.
2. Customer shall provide and install a 2-1/2" elbow (36" radius) and conduit. If SRP conductor will both enter and exit the post, install two 3", 35" elbows (36" radius) and conduit (as needed). A 2,500 lb. continuous non-conductive flat pulling tape is required in conduit (free moving and not glued to conduit).
3. UL-listed copper or aluminum double landing lugs, mounted a minimum of 18" and a maximum of 48" above top of pour panel (see drawing item 8). Landing lugs must accommodate #2 through 350 MCM conductor. Lugs may be in-line or staggered. Meter socket and service lateral conductors shall be independently connected at the landing lugs.
4. Copper grounding conductor shall be continuous to ground bus landing block in breaker panel. See page 8-1 and 8-2 for size.
5. Grounding clamp shall comply with local municipality requirements.
LEGEND (cont’d)

6. Ground provided by:
   A. Metallic water pipe extending a minimum of 10’ in the ground.
   B. Grounding electrode per NEC.
   C. Requirements established by inspecting municipality.

Grounding electrodes must not be installed in trench area unless they are installed prior to wire installation. They may then be used for post location staking. If looped copper wire grounding is used, it must be installed in the trench prior to wire installation. The stubbed-up grounding wire may then be used for post location staking.

7. Form poured concrete pad shall be 24” x 24” x 4”, with the top 2’ above final grade.

8. The minimum inside dimension of the meter post shall be 4” x 7 1/2”. on the open (meter) side, a fixed pour panel shall extend 2” to 6” above the top of the concrete pad and 18” minimum below the top of the pad.

9. Each meter location must be identified with the permanent space number. This identification shall be per pages 9-9 & 9-10 and the tag shall be attached to a permanent part of the post - not to removable cover or lid.

10. Main circuit breakers must be installed prior to inspection. Contact Distribution Design to obtain the short circuit interrupting rating of the breakers and service equipment.

11. SRP shall approve all double meter posts; 100 amps maximum per side. Outside finish shall be corrosion resistant.

NOTES

1. Posts shall be factory-wired from the service terminating lugs to the meter socket in a separate or barriered raceway. Posts shall have a minimum rating of 100 amps (refer to EUSERC manual).

2. Any modification must be approved by Distribution Design and the AHJ. No modification is allowed for temporary service.

3. The pulling and terminating section shall be accessible from the front and rear. A 3’ minimum clearance is required in each direction per page 5-16.

4. The meter panel shall be provided with a sealing ring and the socket shall be rigidly mounted on a support and attached to the meter panel. All panels shall be sealable.

5. For special application only (120 volt, 2 wire, 30 amp):
   Service requirements are the same as listed here and the total ampacity of the breakers is not to exceed 30 amps, with no more than two breakers. no other breakers, switches or receptacles are allowed in the breaker panel (see page 3-11).

6. The radial clearance, as illustrated on page 5-15, from the side of electric service to the nearest gas facility vent is 36”.

7. See meter post installation page 3-12.
WIRING DIAGRAM FOR 120 VOLT 2-WIRE SERVICE

MAX. 2 BREAKERS WITH MAX. TOTAL OF 30 AMP RATING, TO BE LOCATED ON SIDE WITH HOT LEAD ATTACHED

TO 120 VOLT LOAD

FROM SRP
HOT

SOURCE OF POWER
NEUTRAL

SEE NOTE 3

FOR SPECIAL APPLICATIONS ONLY
(120 VOLT, 2-WIRE, 30 AMP TOTAL MAX.)

NOTES

1. Service requirements are the same as listed on page 3-9 & 3-10. The maximum rating of an individual breaker, or the sum of two max. breakers, shall not exceed 30 amps. No other breakers, switches, or receptacles will be allowed in the breaker panel.

2. SRP may specify use of a meter post as described on page 3-13 through 3-15 for areas where protection from water or vandalism is needed, as determined by SRP.

3. SRP will install the neutral jumper.
I. Installation Procedures and Instructions for Single-Meter Installations

A. The Customer is responsible for the installation of the meter post, located per SRP design. The installation shall be in accordance with the AHJ.

B. After the municipal clearance has been received by SRP and the final SRP SES inspection has been completed, SRP will install the necessary conductors and related equipment to energize the service entrance. A meter will be furnished and installed by SRP at this time. The main breaker must be installed before SRP will set a meter.

II. Installation Procedure and Instructions for Meter Posts

A. Customers or Developers are responsible for installing the meter post(s) and conduit located per SRP design. The conduit will extend out of the ground at the point where the service and meter post is to be set.

B. Clearances between meter post and other utilities shall conform to applicable codes and/or regulations.

C. The developer or their contractor will then:

1. Install the conduit to extend 2" - 6" above concrete pad but not above the top of the fixed pour panel. Install electrical meter post in place over the conduit (See page 3-9 and 3-10, Legend #8).

2. Install and connect a No. 4 AWG minimum copper grounding conductor from a metallic system water pipe or grounding electrode to the grounding lug per applicable code.

3. Backfill around the post to provide good support, plumb and level the post and pour the concrete island (24" X 24" X 4"). The final grade or ground line should be approximately 2" below the top of the concrete pad.

4. Install 2,500 lb. continuous non-conductive flat pull (free moving and not glued to conduit) tape in conduit. String or rope is not acceptable.

D. SRP will install and connect the service lateral conductors to the landing lugs in the meter post, install and seal the pull section panel, and blank off and seal the meter socket ring.

E. SRP will set the meter when the request for service is submitted, all code requirements have been met and approval clearance issued. All meter posts, fed from the same transformer, must be installed before energizing any individual meter post.

F. The main breaker must be installed before the SES will pass an inspection, clearance or before SRP will set a meter.
NOTE: ALL DIMENSIONS ARE MINIMUM.

DEMAND RESET COVER

WIREWAY PULL SECTION
NOTES

1. Meter pedestal must be SRP approved. The complete enclosing cover shall not exceed 25 lbs.

2. The meter shall be enclosed and the enclosing cover shall meet the following conditions:
   The cover shall be hinged (allowing the top and front to be rotated up and back exposing the
   metering compartment) and have a handle. When the metering compartment side panels are
   attached to and lift back with the hinged cover, the "A" dimension does not apply. The lifting
   force required to open the cover shall not exceed 25 lbs.

3. All utility compartments (meter cover, demand reset cover, test-bypass cover and pull section)
   shall be sealable.

4. Circuit breakers shall be rated for the available fault current. Contact SRP Distribution Design
   for available fault current. Circuit breakers must be installed prior to meter installation.

5. Service conductors are to be terminated on pressure-type CU-AL listed lugs sized for #6 - 250
   MCM cable. Insulated cable or bus shall be installed between landing lugs and test-bypass.

6. The meter panel shall be provided with a sealing ring and the socket shall be rigidly mounted on
   a support and attached to the meter panel.

7. Internal equipment shall be secured in place. Any exposed fasteners shall be tamper resistant.

8. A protective metal barrier (16 gauge minimum) shall be installed between the utility wireway
   and Customer distribution section. A minimum 1/4" clearance shall be maintained between the
   protective barrier and the Customer section.

9. Test-bypass blocks with rigid insulating barriers shall be furnished, installed, and wired or
   bussed to the meter socket. Connection sequence is line-load left to right. Each line and load
   position shall be clearly identified at 3/4" minimum block letter labeling.

10. See page 3-15 for installation procedure.

11. You may have to order this type of pedestal - check with your electrical supplier.

12. GAS LINE CLEARANCE: Maintain a 36" minimum radial clearance, as illustrated on page 5-15,
   between electric service equipment and any gas vent.
I. Installation Procedure and Instructions

A. The Customer or Developer shall be responsible for the installation of the meter pedestal and conduit, per SRP Design.

B. The Customer shall install conduit:
   1. Conduit shall be 2-1/2" diameter PVC.
   2. Sweeps and bends shall be 36" radius.
   3. PVC conduit shall extend 2" minimum above pad.

C. Clearances between meter pedestal and other utilities shall conform to applicable codes and/or regulations.

D. The Developer or their contractors will then:
   1. Backfill around the conduit, with the pedestal base in place, pour the concrete pad as specified by the manufacturer, but not to be less than 24" x 24" x 6" (see base detail below). The final grade or ground line shall be approximately 2" below the top of the pad.
   2. Install and connect a copper grounding conductor, #4 AWG minimum, from a metallic system water pipe or grounding electrode to the grounding lug per applicable code.
   3. Anchor the meter pedestal to the pad and place address identification per pages 9-9 and 9-10.

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Top View

Recommended ground rod location.

MIN. clearance required per NEC 110-16, typical front and back.

Recommended service entrance conduit location.

MIN. clearance required per NEC 110-16, typical front and back.

Bottom View

Slots for base installation

No components shown

Top View

MIN. clearance required per NEC 110-16, typical front and back.

Recommended service entrance conduit location.

MIN. clearance required per NEC 110-16, typical front and back.

Side View

MIN. clearance required per NEC 110-16, typical front and back.

MIN. clearance required per NEC 110-16, typical front and back.

Front View

Base Detail

Top of SES base plate shall be same grade as the top of foundation.

1/2-13 or 5/8-18 bolts supplied with base.

Foundation dimensions and depth per job specifications.

Concrete

1/2" or 5/8" anchor bolts as required.
RESIDENTIAL ALL-IN-ONE, SEMI-FLUSH 400 AMPS MAXIMUM 320 CLASS

Maximum Ampacity    Minimum Dimensions

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<td>7-7/8&quot;</td>
<td>10-1/2&quot;</td>
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NOTES
1. Service entrance to be installed per page 3-18.
2. See page 3-20 for service entrance sections rated 400 A (Class 320).
3. Install service equipment to allow removal of front panels without damage to this equipment or the building.
4. Not for overhead use.
NOTES

1. All-in-one equipment shall be utilized for all new installations.
   EXCEPTIONS: See ESS 9-78 for meter socket change-out criteria.
   A two-piece meter section may also be utilized when converting from an overhead to underground service. Service conductors entering from the top of the SES shall be terminated on the top lugs. Service conductors entering from the bottom of the SES shall be terminated on an extended bus below the meter socket.

2. All requirements on page 3-1, Service Riser Requirements, apply.

3. Landing lugs in pull section shall be CU/AL rated.

4. Neutral may be on side, middle or staggered, but not more than 2 ½” below hot bus terminals. If insulated from enclosure, provide a bonding screw or jumper.

5. A minimum radial clearance of 1 ½” shall be provided between hot bus terminals and ground or neutral surfaces.

6. Service lateral conductors shall be connected to the line side of meter socket by SRP. Service conductors shall be terminated on an extended bus below the meter socket.
   EXCEPTION: For two-piece SES, service conductors may be terminated at the top if the line side lugs are located at the top of the meter section.

7. This equipment may be constructed for overhead, underground or a combination of both applications. When constructed as an overhead/underground device, a yellow caution label (2” x 3” minimum) that reads, "CAUTION: BUS ENERGIZED AT ALL TIMES" shall be installed below the terminations in the pull section.

8. Service riser conduit shall enter the bottom of pull section.

9. The Customer shall provide SRP approved conduit to J-box or source of feed as specified by SRP. Customer should also check with telephone and cable companies for their requirements (see page 5-4).

10. Bonding, per code, shall be installed prior to installation of underground service conductors.

11. There must be 36” radial clearance, as illustrated on page 5-15, from side of electrical equipment to nearest gas facility vent.

12. See pages 9-11 through 9-15 for meter socket arrangement.

13. See page 3-17 for semi-flush panel installation.
WEATHERPROOF SEALABLE GUTTER, MINIMUM SIZE 6 MUST BE ACCESSIBLE FROM TOP OR FRONT.

CLEARANCE ABOVE GUTTER WILL BE:
36" FOR 600 AMP
24" FOR 400 AMP &
12" FOR 225 AMP
OR LESS, THE TOTAL HEIGHT FOR WORKING CLEARANCES SHALL BE NO LESS THAN 6'-0".

NOTES
1. The Customer shall be responsible for modification of the service entrance from overhead to underground, as shown on this drawing and as approved by the AHJ.

2. All requirements on page 3-1, Service Riser Requirements, apply.

3. Maintain 36" of radial clearance from side of electrical equipment to nearest gas facility vent. See page 5-15 for example showing gas line clearance.
NOTES (Reference EUSERC Drawing 302A)

1. This drawing is for combination equipment for service termination, metering and distribution feeder breakers.

2. The meter socket to be listed by UL under UL Standard 414 for the acceptance of a class 320 self-contained meter. The sealable cover for the service termination and meter mounting device shall be of the ring type having a padlock provision.

3. Customer-owned wiring extended from the distribution section (branch circuits) shall not pass through any section sealed by SRP.

4. See pages 9-65 and 9-66 for minimum clearances for terminations and for bus and bolt details, as shown above.

5. The pull section/meter cover shall be independent of any service equipment cover.

6. Pull section covers shall be removable, sealable, and provided with two lifting handles and limited to a maximum size of 9 sq. ft. in area. Sealing provisions shall consist of two drilled stud and wing nut assemblies at the bottom of the pull section.

7. This type of service is applicable only for residential 1Ø service.

8. Submit electronic copies of the plans (PDF format preferred) for all proposed SES, 400 amp or larger, to shopdraw@srpnet.com for approval prior to construction of the service section. Drawings must be labeled with the Customer’s name, job address, SRP job number or account number, and contractors name and contact number.

9. See page 3-17 for semi-flush panel installation.

10. Both main service disconnects shall be installed prior to meter installation.
NOTES

1. Service entrance shall be installed in accordance with pages 3-17 & 3-18.
2. Neutral shall be of code size and extend into metering enclosure pull section by 24" for connection by SRP.
3. No connections shall be made in the instrument transformer box to supply any other meter, and not more than one load circuit shall leave the transformer box.
4. Line and load conductors shall not be located in the same pull section.
5. Service entrance conductors shall enter top of current transformer compartment. Load conductors must exit below the load terminals of the current transformer.
6. All requirements on page 3-1, Service Riser Requirements, apply.
7. SRP furnishes and installs the current transformers and test switch.
8. Current transformer mounting base and test switch perch must be per EUSERC drawing 314.
9. Cabinet shall have a sealable cover with two lifting handles and a plate reading "DO NOT BREAK SEALS, NO FUSES INSIDE."
10. For metering enclosure dimensions see EUSERC drawing 314 for 400 to 600 amps.
11. Refer to page 6-1 to determine service riser conduit size.
12. This type service section must be surface mounted.
13. Submit electronic copies of the plans (PDF format preferred) to shopdraw@srpnet.com for approval prior to construction of the service section. Drawings must be labeled with the customer's name, job address, SRP job number or account number, and contractor's name and contact phone number.
NOTES

1. Where an adjustment wall or other obstruction extends more than 11" perpendicular from the face of the meter panel, provide a 10" minimum dimension to the meter socket axis. For obstructions extending 11" or less from the meter panel, the side clearance shall conform to that of Dimension B.

2. Panel cover shall be removable to provide access to the Customer's equipment with the utility's meter and tamper proof sealing rings in place. When there is more than one meter socket per panel, the minimum meter cutout opening shall apply (See Fig. 1). Do not place more than two sockets on any removable cover.

3. Dimension B shall be increased by the amount that the main switch door, including operating handle, reduces the clearance when opened 90°.

4. Removable pull section covers shall not exceed six square feet in area.

5. Separate distribution conductors from metering compartment with a barrier.

6. Grounding shall comply with NEC or AHJ.

7. Main breaker(s) shall be installed before SRP will install meters.

8. Main disconnect is required if exceeding six meters and/or disconnects.

9. All meters shall adhere to a height range of 4' to 6'-3".

10. SUBMIT ELECTRONIC COPIES OF THE PLANS (PDF FORMAT PREFERRED) FOR ALL PROPOSED SES TO shopdraw@srpnet.com FOR APPROVAL PRIOR TO CONSTRUCTION OF THE SERVICE SECTION. Drawings must be labeled with the Customer's name, job address, SRP job number or account number, and contractor's name and contact number.
1. All requirements on page 3-1, Service Riser Requirements, apply.
2. Neutral terminal must be insulated from enclosure.
3. Bonding (per code), shall be installed prior to installation of underground service conductors.
4. Service neutral shall be connected to uninsulated ground bus in auxiliary gutter with main bonding jumper supplied by manufacturer. SEC. NEC. 384.60 (C)
5. All meters and disconnects shall be 6" above or below gutter. Riser shall not extend beyond gutter.
6. Only one neutral conductor and only one ground conductor shall terminate in the gutter from each meter service switch.
7. Terminate branch circuit neutral conductors and branch circuit ground conductors in each service switch box.
8. This area of the pull section is for SRP service conductors. Pull box and gutters shall be sealed by SRP.
9. A minimum of one meter must be installed at the time service is energized. The main breaker must be installed before SRP will set a meter.
10. Submit electronic copies of the plans (PDF format preferred) for all proposed SES to shopdraw@srpnet.com for approval prior to construction of the service section. Drawings must be labeled with the Customer's name, job address, SRP job number or account number, and contractor's name and contact number.
11. The service equipment shall be braced for the total available fault current.
12. A main disconnect is required if exceeding six meters and/or disconnects.
13. See page 6-1, 9-60 and 9-61 for number and size of conduits and terminating positions. Depth of the pull section must accommodate the required conduits.
14. All meters shall adhere to a height range of 4' to 6'-3".
NOTES
1. Refer to pages 6-1, 9-60 and 9-61 for size of service supply conduits and type of lugs. The depth of the section shall be such that it will accommodate the required conduits.
2. Provide a minimum radial clearance of 1 1/2" between hot bus terminals and grounded or neutral surfaces.
3. The pull section cover shall be independent of any service equipment other than the pull section.
4. Provide two lifting handles on pull section covers.
5. Pull section covers shall be sealable, consisting of two drilled stud and wing nut assemblies on opposite sides of the panel. All securing screws shall be captive.
6. Submit electronic copies of the plans (pdf format preferred) for all proposed SES to shopdraw @srpnet.com for approval prior to construction of the service section. Drawings must be labeled with Customer's name, job address, SRP job number or account number, and contractor's name and contact number.
7. Service supply conductors may cross over horizontal busing provided the horizontal busing is (a) barriered, or (b) fully insulated.
   The shaded space (shown on drawing) which has dimension "X" high by "W" wide is maintained for service supply conductors only.
8. Grounding shall comply with NEC or the AHJ.
9. All meters shall adhere to a height range of 4' to 6'-3".

<table>
<thead>
<tr>
<th>EQUIPMENT RATING</th>
<th>&quot;X&quot; DIMENSION</th>
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<tbody>
<tr>
<td>0-200 AMPS</td>
<td>18&quot;MIN.</td>
</tr>
<tr>
<td>201-600 AMPS</td>
<td>22&quot;MIN.</td>
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</tbody>
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Electric Service Specifications

RESIDENTIAL MULTIPLE OCCUPANCY SERVICE
SIX METERS, 600 AMPS MAX, 120-240V
UNDERGROUND, 1Ø 3-WIRE
NOTES
1. Metal conduit installed underground shall be wrapped with a UL approved PVC tape, minimum 1/2" overlap, to at least 6" above final grade.
2. 2500 PSI strength MIN. or Class C concrete per MAG Section 725
3. See pages 3-1 and 6-1 for conduit number and size.