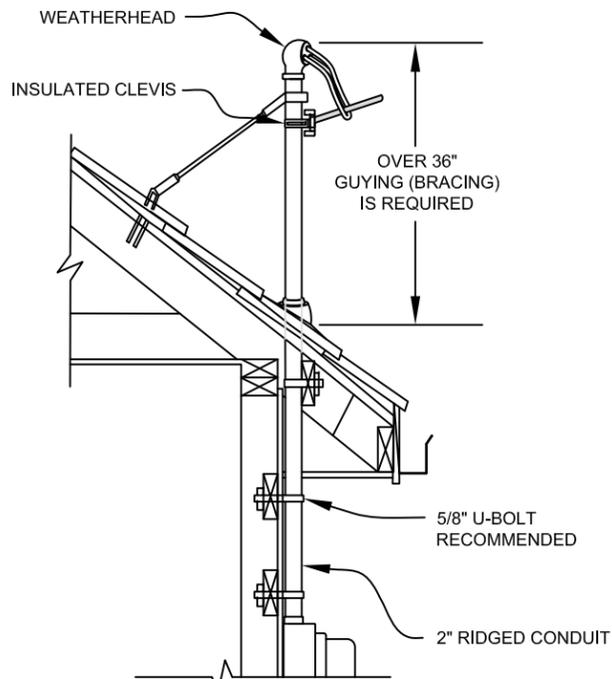


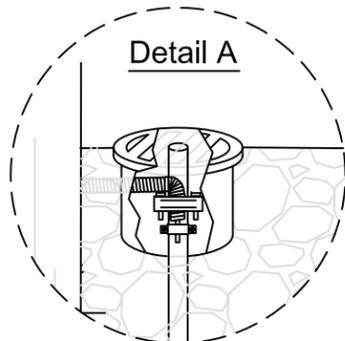
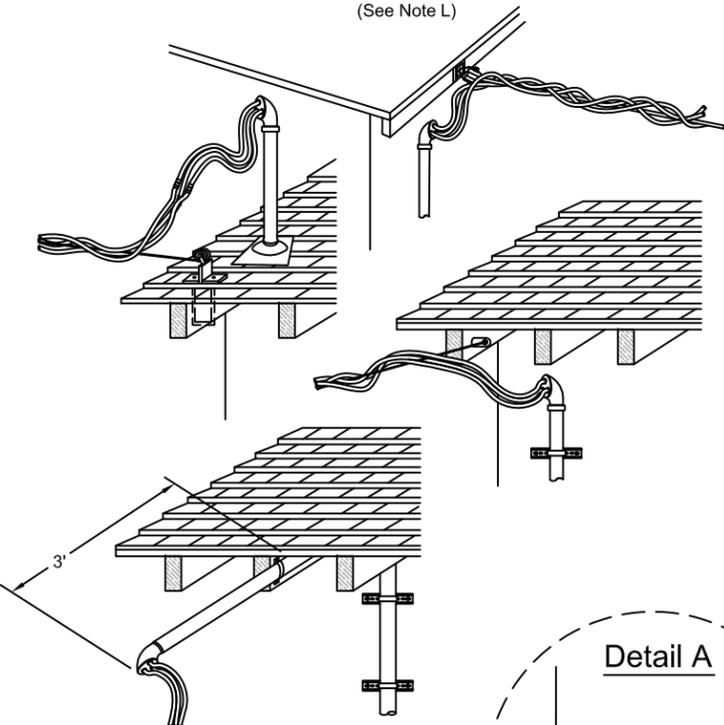
**SERVICE MAST GUYING
EXAMPLE**



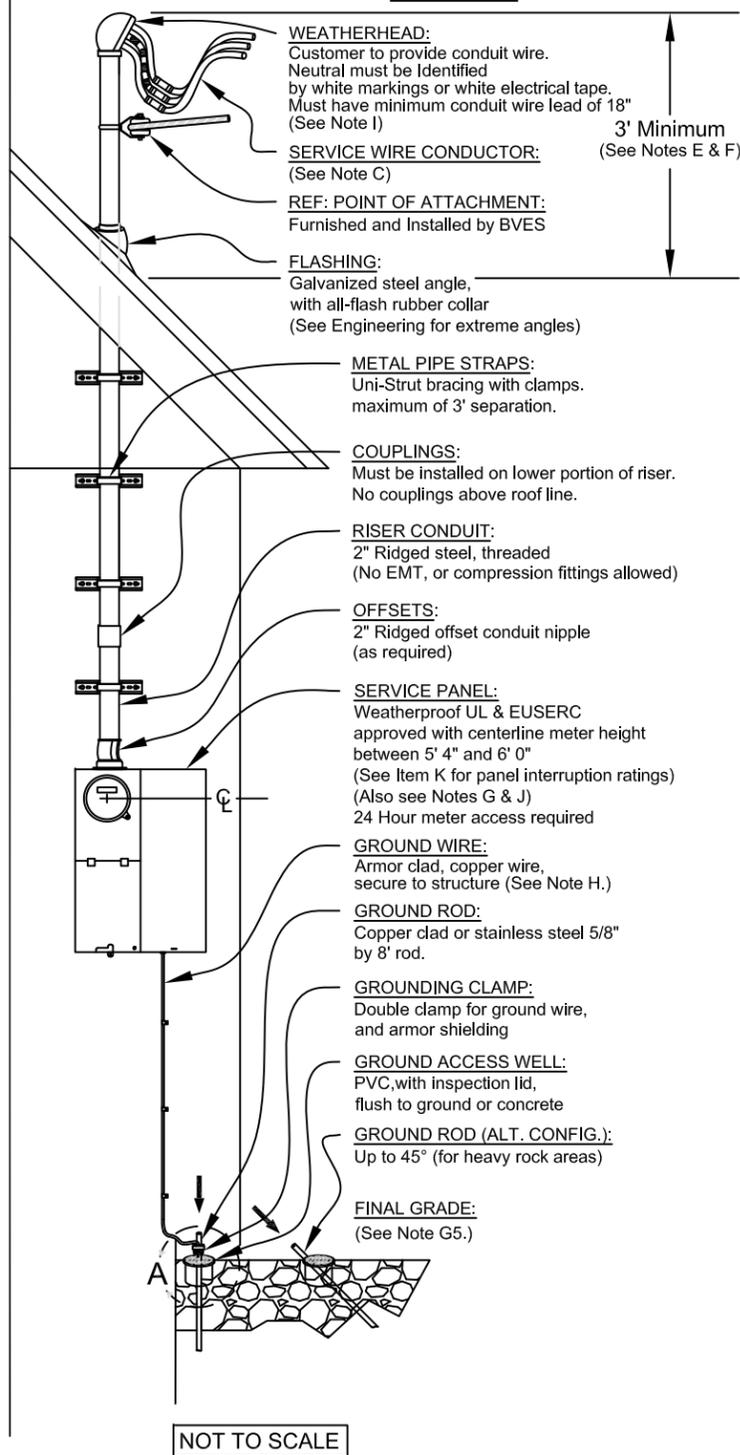
BVES does not allow any foreign attachments to the riser.

ALTERNATE MAST CONFIGURATION EXAMPLES

(See Note L)



**PERMANENT OVERHEAD SERVICE
EXAMPLE**



NOT TO SCALE

**Minimum Requirements -
Permanent Overhead Service**

- A.) A "Preliminary Service Request" is required to be filled out in its entirety, signed, and submitted to BVES prior to any meter spots, temporary service spots, and/or field meets. A BVES Engineering Representative must pre-approve all meter locations and grounding contingent upon plot plans and field meets. All commercial panels to be reviewed and approved by a BVES Engineering Representative.
- B.) Meter shall be located on an exterior wall, facing, or at an angle to the utility pole line. Not to exceed 3' from the nearest corner. Location is subject to approval by a BVES Engineering representative.
- C.) Facilities to be installed by customer include the meter panel, grounding, rigid steel riser, weatherhead, and service entrance conductor wire.
MINIMUM CONDUCTOR WIRE SIZES: (Residential)
1.) 100 amp panel - #4 copper or #2 aluminum (Insulated) 600Volt Rating
2.) 200 amp panel - #2/0 copper or 4/0 aluminum (Insulated) 600 Volt Rating
BVES will install the service drop, meter, and the service point attachment at the weatherhead.
- D.) Permits and Inspections must be obtained from the following agencies, prior to electric service:
City of Big Bear Lake
39707 Big Bear Blvd
Big Bear Lake, CA 92315
(909) 866-5831

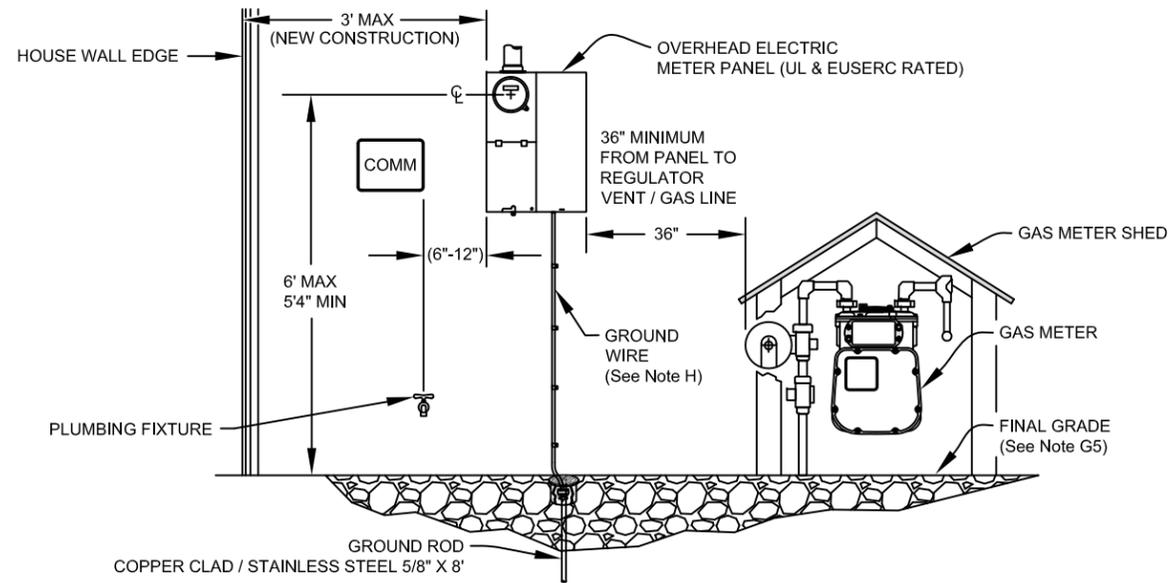
or: **County of San Bernardino Building & Safety**
477 Summit Blvd.
Big Bear Lake, CA 92315
(909) 387-8311 or (760) 995-8140

It is the customer's responsibility to notify and supply BVES with an "Electric Service Release" before service can be connected. For NEW CONSTRUCTION projects, a complete set of approved building plans, load schedule, and a copy of the building permit, must be submitted to BVES Engineering Dept. prior to final permanent power. 2 to 4 weeks are required for Engineering review any and all documents pertaining to new construction. More time may be required as determined by the complexity of the project. The BVES Inspector reserves the right to deny service due to age of service, non-compliant gear, wear, or any and all issues that may deem unsafe, and/or is not to the latest codes or BVES standards. Time frames for all new connections are contingent upon current work loads, weather, and/or emergencies etc..
- E.) BVES requires a 2" min. rigid galvanized steel riser that exceeds NEC requirements due to snow load conditions.
- F.) Any riser greater than 3', or service drop exceeding 100', requires that the riser be braced. (See Guying Specifications on the the next page.)
- G.) Minimum clearance required (other):
1.) **Min. meter height, to be between 5'4" & 6' 0"** above ground (centerline of meter). (See Engineering Inspector for possible variations.)
2.) 36" service drop radial clearance is required around all windows, stairs, and balconies.
3.) Above any walkable surfaces, (patios, decks, walkable roofs, stairways) a min. of 8' vertical clearance is required, see residential service height requirements diagram.
4.) **Min. of 3' radius clearance** (around weatherhead), above the top of doorways.
5.) Maintain a 3' clear, level, and unobstructed workspace in front of electric service equipment.
- H.) BVES Grounding Requirements: BVES requires, in addition to NEC, a separate grounding conductor and ground rod within 3' of meter panel. Residential Grounding conductor is to be:
100 Amp - #6 Copper, armor clad (shielded)
200 Amp - #4 Copper, armor clad (shielded)
For any panel larger than 200 amps, contact BVES Engineering Department.
- I.) **Maximum service height: 23' from the top of the weatherhead to grade on level terrain.** BVES requires that access to the riser be maintained and any exceptions must be approved by a BVES Engineering Representative.
- J.) Temporary jumpers must be removed from service panel prior to service installation. Contact the BVES Engineering Inspector for any situation that may exceed these requirements.
- K.) BVES follows the County of San Bernardino specifications for electrical panel interrupting ratings: (See Short Circuit Current Table.)
- L.) All points-of-service drop attachments shall be on the wall, roof edge, verge, or exterior frame member nearest and facing the BVES pole line. Only one power service drop will be permitted to be attached to a service mast or riser per NEC, Section 230-28. (No communication lines are permitted to attach). The service head, wherever practicable, should be located one foot above the level of the point provided for service drop attachment. (see alternative mast guying examples diagram). BVES will provide drip loops and connections formed below the service entrance weatherhead to prevent the entrance of moisture into the service conduit. **Please Note:** For service requirements that exceed these standards, please contact the BVES Engineering Inspector.
- M.) Roof clearances apply to all Residential and Commercial buildings with metal roofing material. (see service heights diagrams on page 2 of 2.)

Bear Valley Electric Service
P.O. BOX 1547 42020 GARSTIN DR BIG BEAR LAKE, CA. 92315
A Division of Golden State Water Company
Engineering and Trench Inspections: (909) 471-0308
Service Disconnect / Reconnects Scheduling: (800) 808-2837
Website: www.bves.com

| | | |
|-------------------------------------|-------------------------|---|
| BEAR VALLEY ELECTRIC SERVICE | |  |
| DATE: 06-01-18 | TITLE: OH SERVICE SPECS | |
| PAGE 1 OF 2 | DRWN: PF APVL: EC | DRAWING No. 02-0001 |
| | | REV 3 |

GAS AND ELECTRICAL METER CONFIGURATION



- NOTES:
 1. Size and dimensions of panels will vary. Drawing not to scale.
 2. This Drawing Pertains to both overhead and underground electric service applications.

GUY BRACING SPECIFICATIONS:

| If the distance between the riser and utility's pole is.. | And... | Then... |
|---|---|-------------------------------|
| Less than 100 ft. | Service mast must be 36" Min. above the roof. | Guying is <i>not</i> required |
| Greater than 100 ft. and/or | Service mast is over 36" above roof line. | Guying <i>is</i> required |

Stiff leg guying is acceptable.
 Example: 3/4" ridged, or EMT braced to Riser and roof.

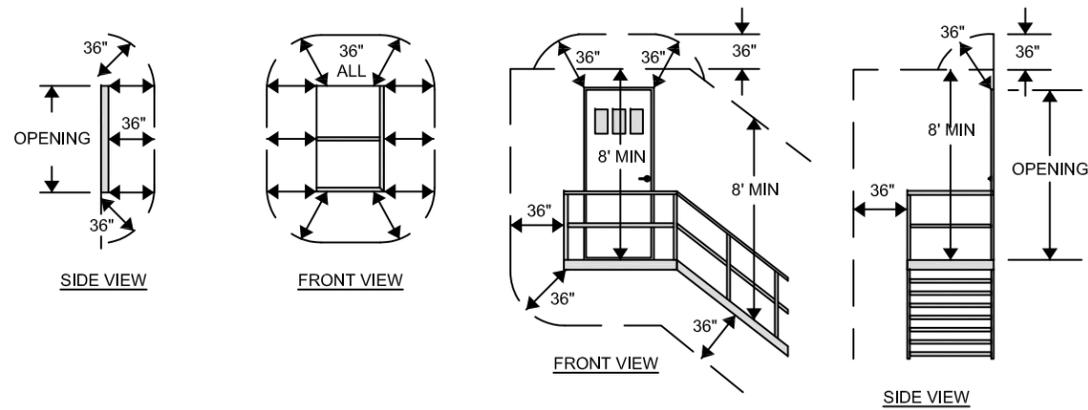
SHORT CIRCUIT CURRENT TABLE

| SERVICE | PHASE | SERVING VOLTAGE | SERVICE ENTRANCE AMPACITIES | UTILITIES CONTRIBUTION TO FAULT CURRENT WILL NOT EXCEED |
|-------------|--------|-----------------|-----------------------------|---|
| Residential | Single | 120/240 | 600 or less | 10,000 |
| Commercial | Single | 120/240 | 600 or less | 42,000 |
| Commercial | Three | 120/208 or 240 | 800 or less | 42,000 |
| Commercial | Three | 480 | 1200 or less | 30,000 |

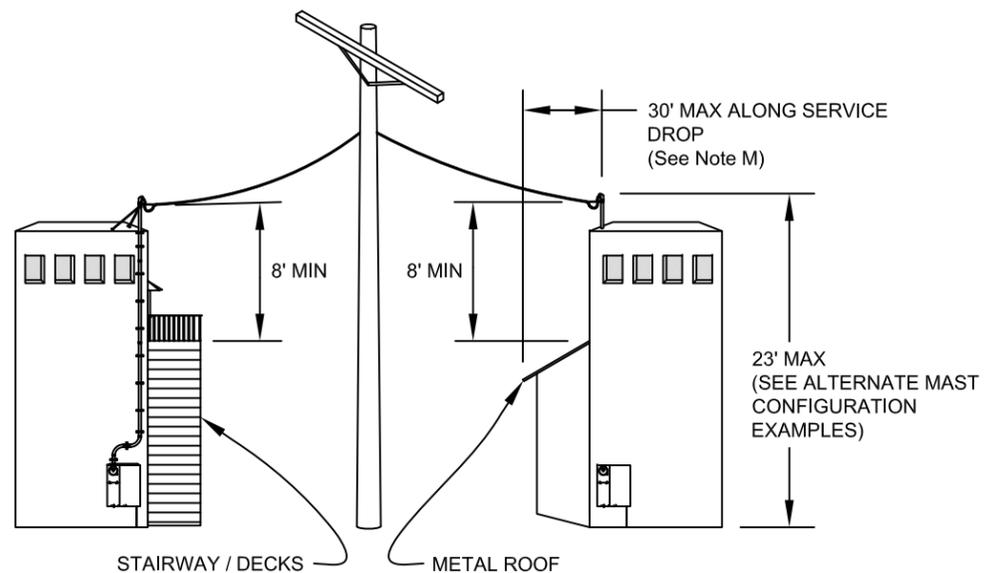
Exceptional Cases:

When the application of the above fault current limitation appears too restrictive for new installations, the customer may request the utility to provide the available fault currents for a specific case and location.
 All new installations with service voltage or service entrance ampacities larger than those stated above will be handled as individual cases, and BVES Engineering will provide the available fault duty for each installation.

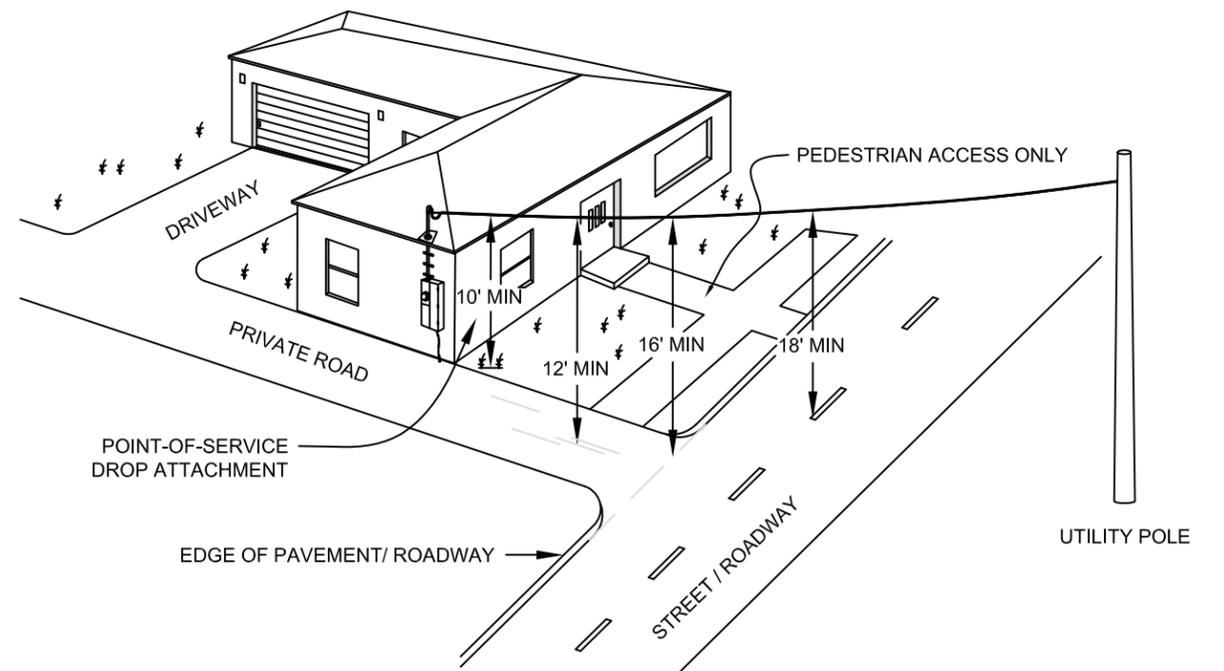
SERVICE CLEARANCE DISTANCE MINIMUMS FOR DOORS, EXITS, WINDOWS, AND FIRE ESCAPES



COMMERCIAL MINIMUM SERVICE HEIGHT REQUIREMENTS:



RESIDENTIAL MINIMUM SERVICE HEIGHT REQUIREMENTS:



**BEAR VALLEY ELECTRIC SERVICE
 OH SERVICE SPECS**



DATE: 06-01-18

TITLE:

DRWN: PF
 APVL: EC

DRAWING No.

02-0001

REV 3