

# **CHEROKEE ELECTRIC COOPERATIVE**

---

**P. O. Box 0 • 1550 Clarence Chesnut By-Pass • Centre, AL 35960**

**Phone: 256-927-5524 • 1-800-952-2667 • Fax: 256-927-1642**

**[www.cherokee.coop](http://www.cherokee.coop)**

# **CONSTRUCTION GUIDELINES**



**CONTAINS DRAWINGS AND  
NATIONAL ELECTRIC CODE  
REQUIREMENTS, IN ADDITION TO  
CHEROKEE ELECTRIC COOPERATIVE  
CONSTRUCTION GUIDELINES**

**Revised August 2013**

## General Requirements for Power Connection

All meter installations must be on the customer's own pole, NOT CEC's.

The bare ground wire from the meter base must be attached to the structure.

All wires must be continuous with no splices anywhere along the run.

If using PVC conduit, it must be electrical grade schedule 40 PVC.

An 8 foot ground rod, being copper clad or galvanized, must be installed.

Must use a one-piece ground rod clamp to attach the ground wire to the rod.

The ground wire must be at least #4 solid copper and attached in the grounding lug in the meter base.

The center of the meter base, once installed, must be between 5 feet and 6 feet in height from the ground.

If using a separate meter base and disconnect in combination, they must be connected by conduit and weather tight fittings.

The main disconnect (breaker) must be large enough for the requirements of the structure.

The energized wires extending from the meter base to the disconnect must be connected to one breaker that is capable of turning all power to the structure.

Must ensure proper weather head configuration depending on entrance cable or conduit.

The weather head must be a MINIMUM of 12 feet from the ground.

There must be a minimum of 3 straps attaching the entrance cable or conduit riser onto the structure.

The following guide is for proper wire sizing of the main disconnect (breaker):

<b>Disconnect Size</b>	<b>Copper Wire</b>	<b>Aluminum Wire</b>	<b>Conduit Size</b>
<b>60 amp</b>	<b>#6</b>	<b>#4</b>	<b>2"</b>
<b>100 Amp</b>	<b>#2</b>	<b>#2</b>	<b>2"</b>
<b>200 Amp</b>	<b>3/0</b>	<b>4/0</b>	<b>2"</b>
<b>400 Amp</b>	<b>500 MCM</b>	<b>500 MCM</b>	<b>*</b>
<b>600 Amp</b>	<b>750 MCM</b>	<b>750 MCM</b>	<b>*</b>

\* Either 3", 3-1/2" or 4" conduit may be used

## **House Requirements for Power Connection**

### **Underground:**

When installing a separate disconnect adjacent to the meter base, the disconnect must be to the right of the underground approved meter base.

A meter base and disconnect combination box is acceptable for use.

The foundation that extends beyond the house at the meter base's location must be removed.

### **Overhead:**

Any service entrance conduit that extends above the roof must be galvanized conduit.

For installations not extending above the roof, a CEC furnished eye bolt must be installed through a framing member.

For installations requiring a conduit extension, the splice must be on the meter base end and no longer than 4 feet in length.

If the interior disconnect (switch box) is not located directly behind the meter base, an exterior disconnect must be mounted adjacent to the meter base.

## **Mobile Home Requirements for Power Connection**

Any pole being used to mount the meter base and disconnect to must be 18 feet in height, at least 5 inches in diameter OR pressure treated 6 inch X 6 inch minimum.

The pole must be set a minimum of 4 feet into the ground.

The pole must be located to where the service drop to the pole will not cross over the roof of the structure (any questions should be directed to CEC engineering).

All materials that the meter base and disconnect are attached to must be pressure treated.

The meter base and disconnect must be attached to the pole by 2 inch lag bolts.

It is required to have a fourth wire, minimum #6 stranded copper, connected from the exterior disconnect's grounding buss to the interior service panel's grounding buss.

Any wiring that is above ground level must be in conduit.

All wiring from the exterior disconnect to the mobile home must be approved for underground burial.

## **Camper/Temporary Pole Requirements for Power Connection**

Any pole being used to mount the meter base and disconnect to must be 18 feet in height, at least 5 inches in diameter OR pressure treated 6 inch X 6 inch minimum.

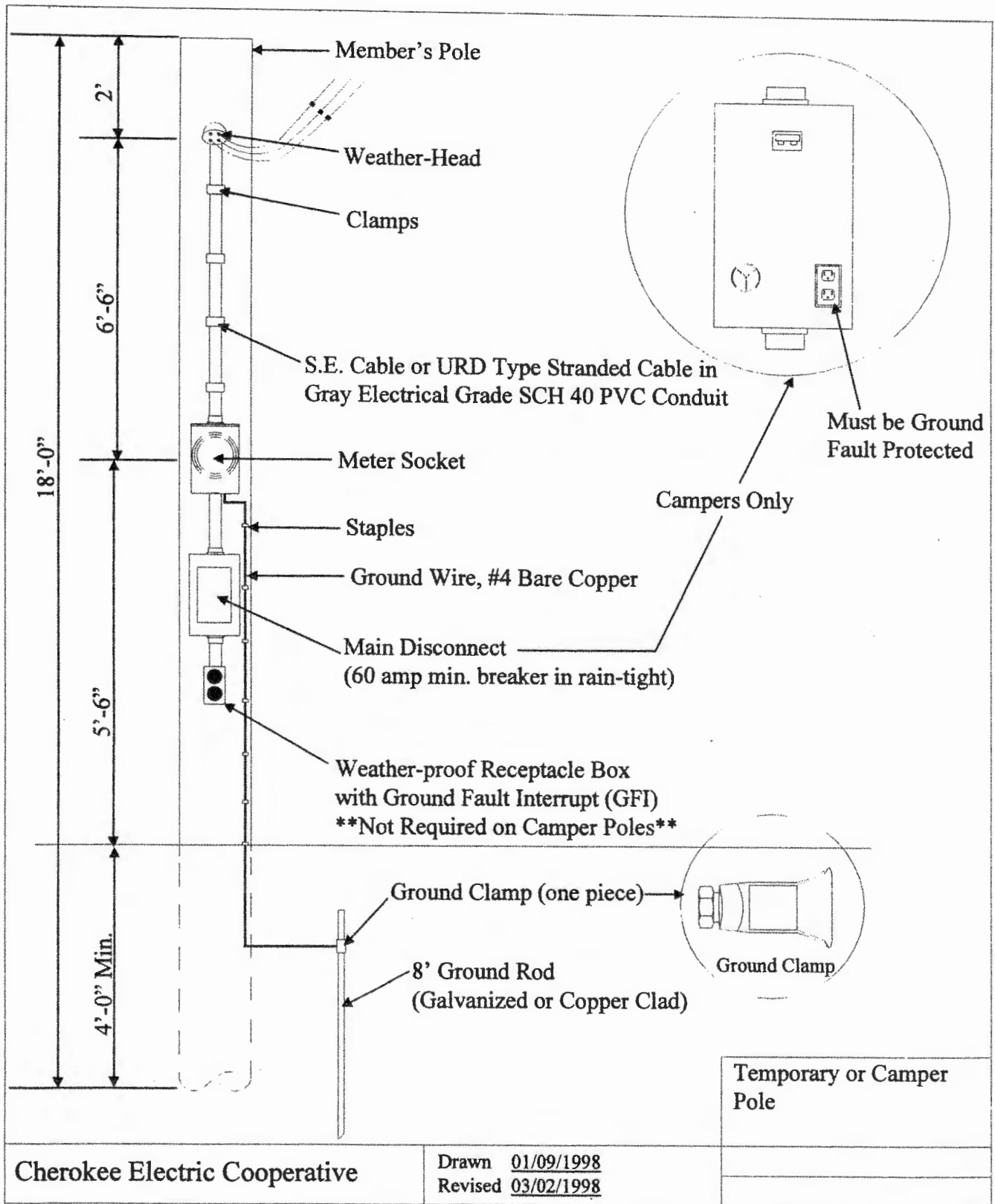
The pole must be set a minimum of 4 feet into the ground.

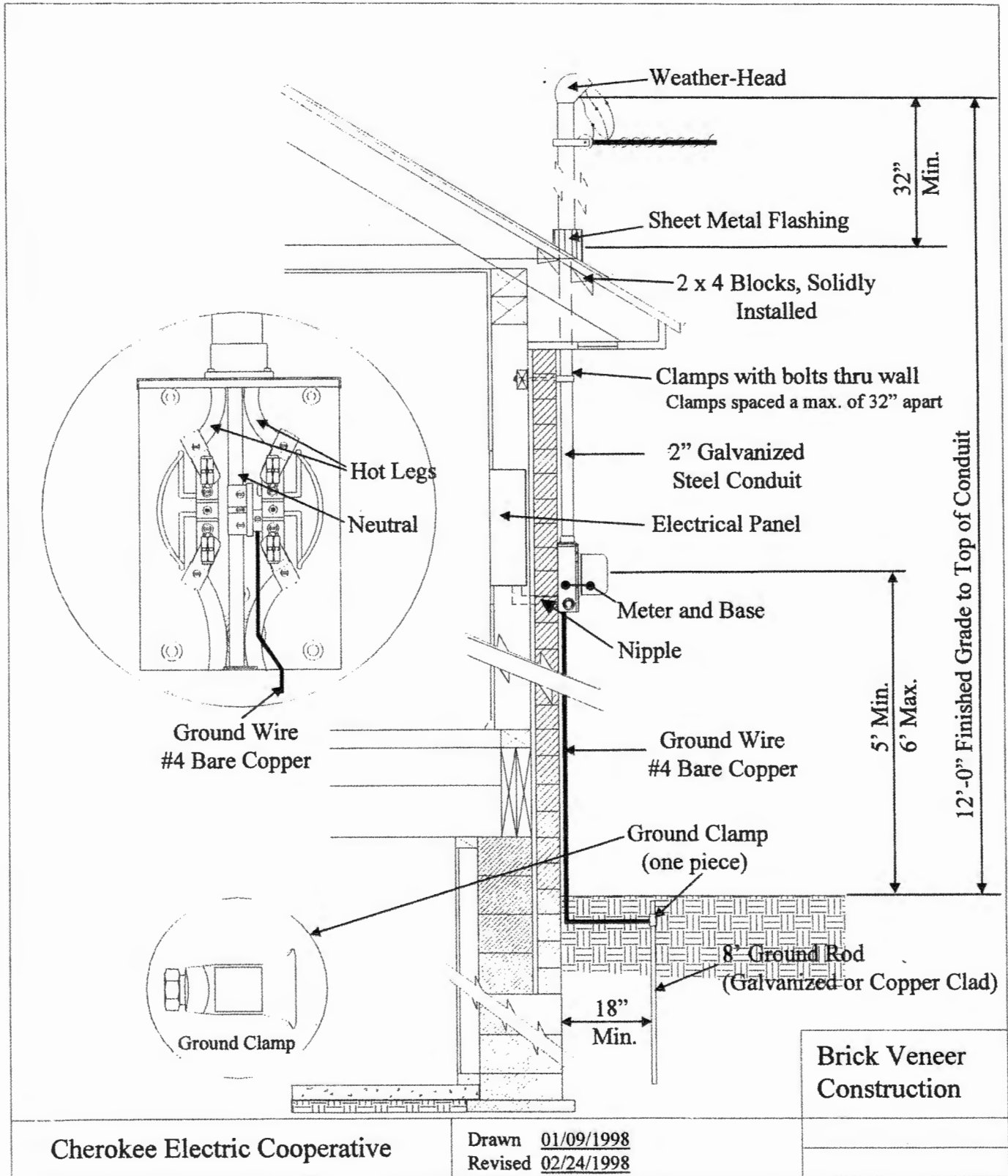
The pole must be located to where the service drop to the pole will not cross over the roof of the camper (any questions should be directed to CEC engineering)

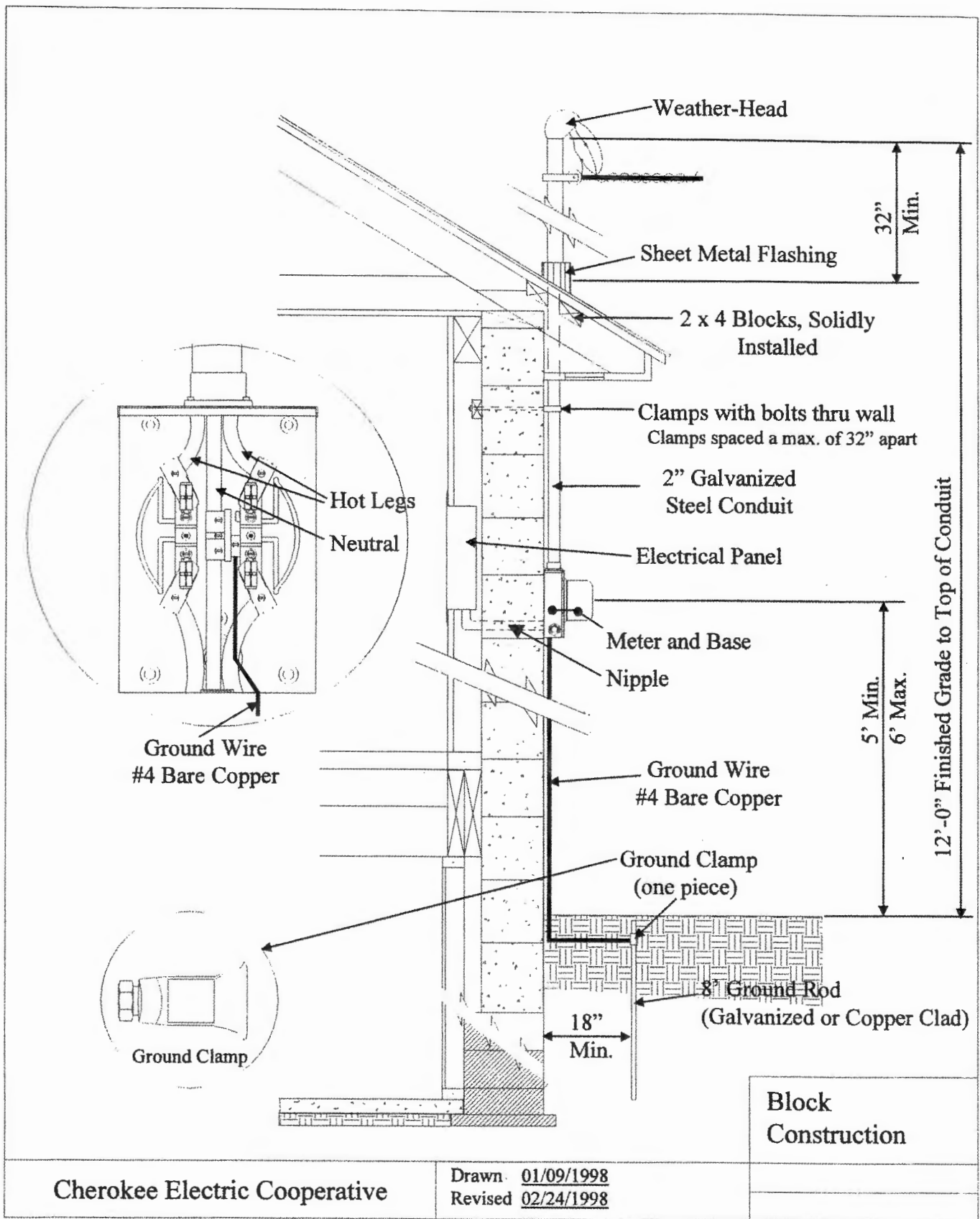
The receptacle must be a Ground Fault Interrupt type or fed by a Ground Fault Interrupt breaker.

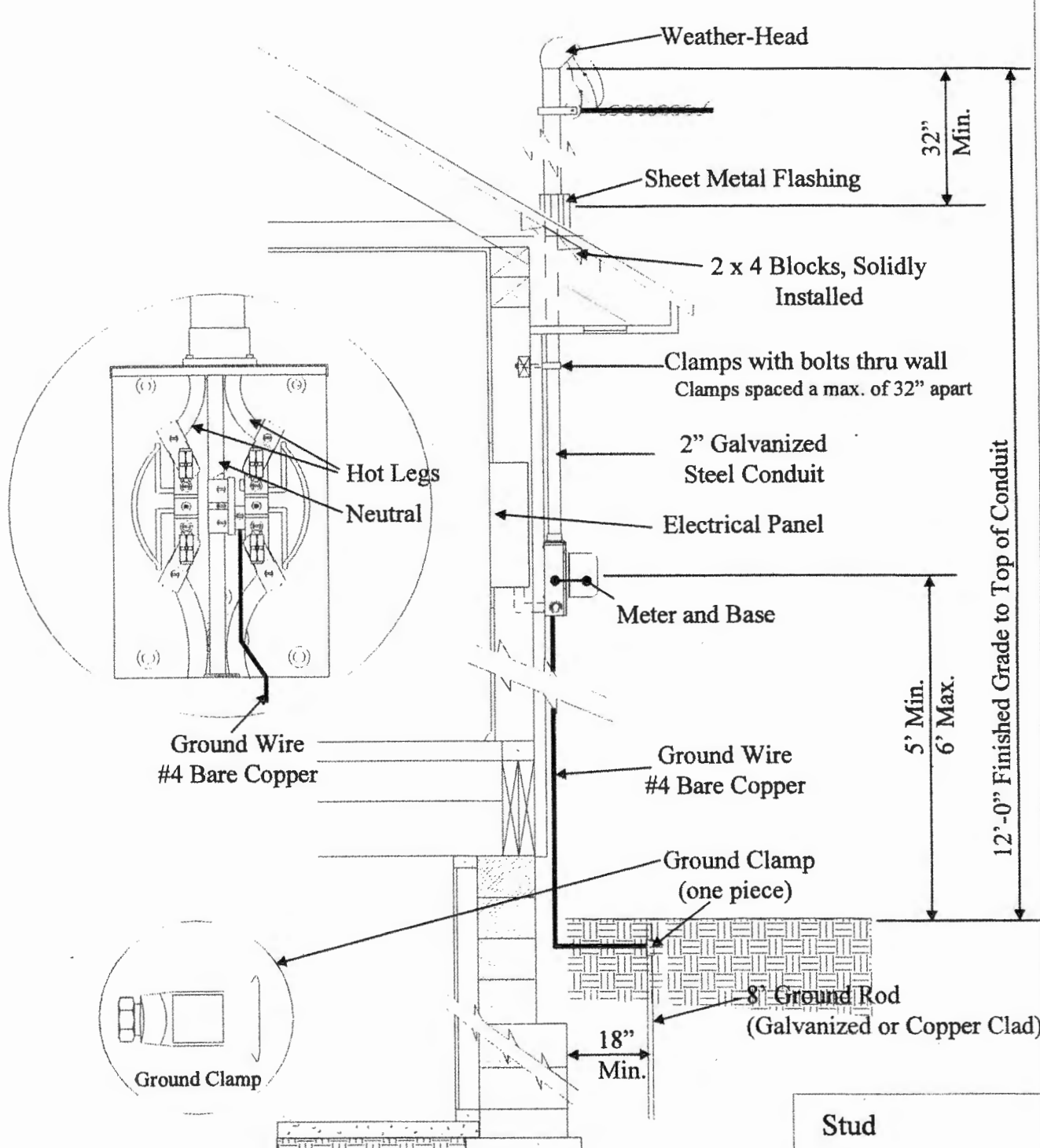
The receptacle must be in a weatherproof box.

The wiring from the disconnect to the receptacle must be in conduit.







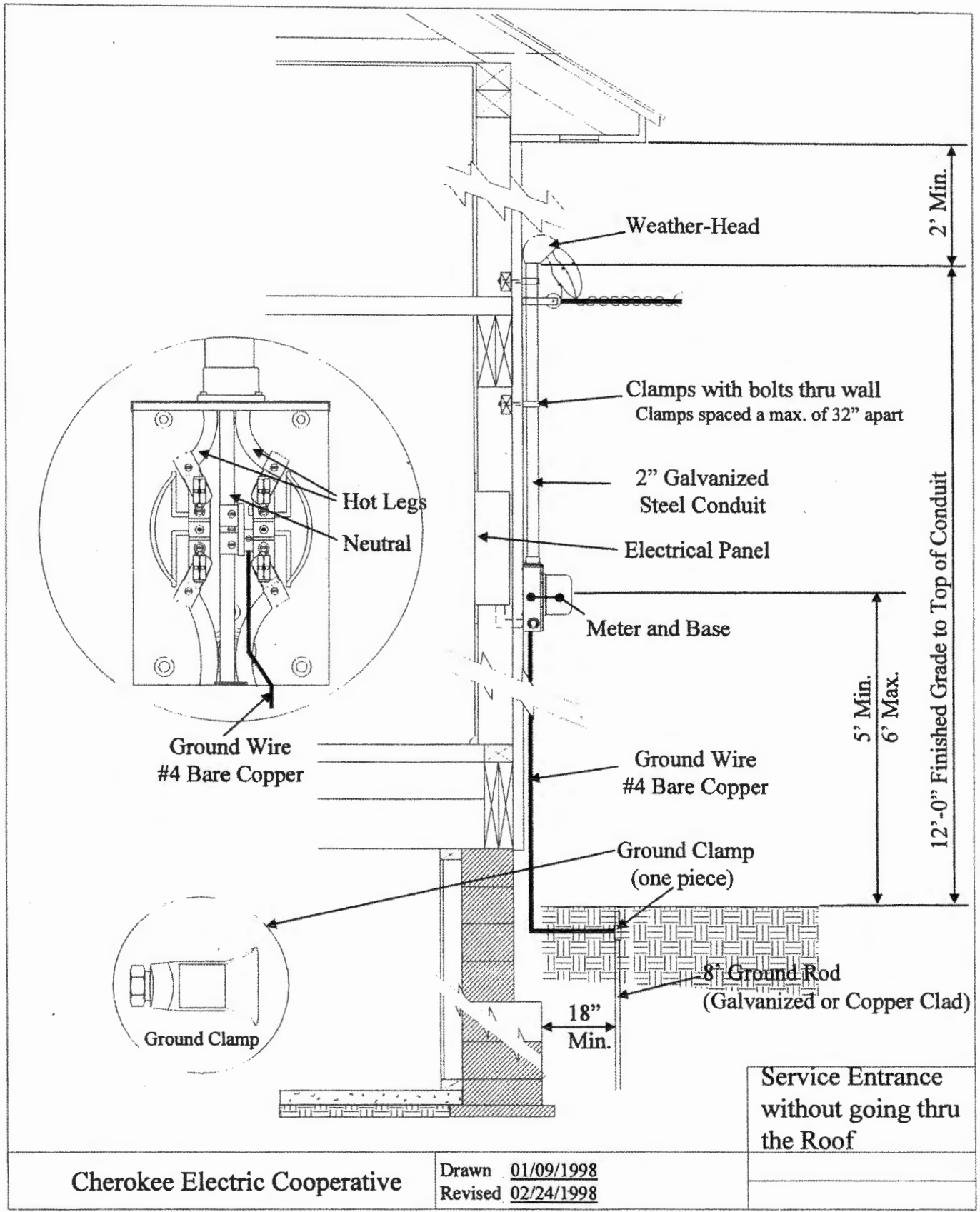


Stud Construction

Cherokee Electric Cooperative

Drawn 01/09/1998  
 Revised 02/24/1998

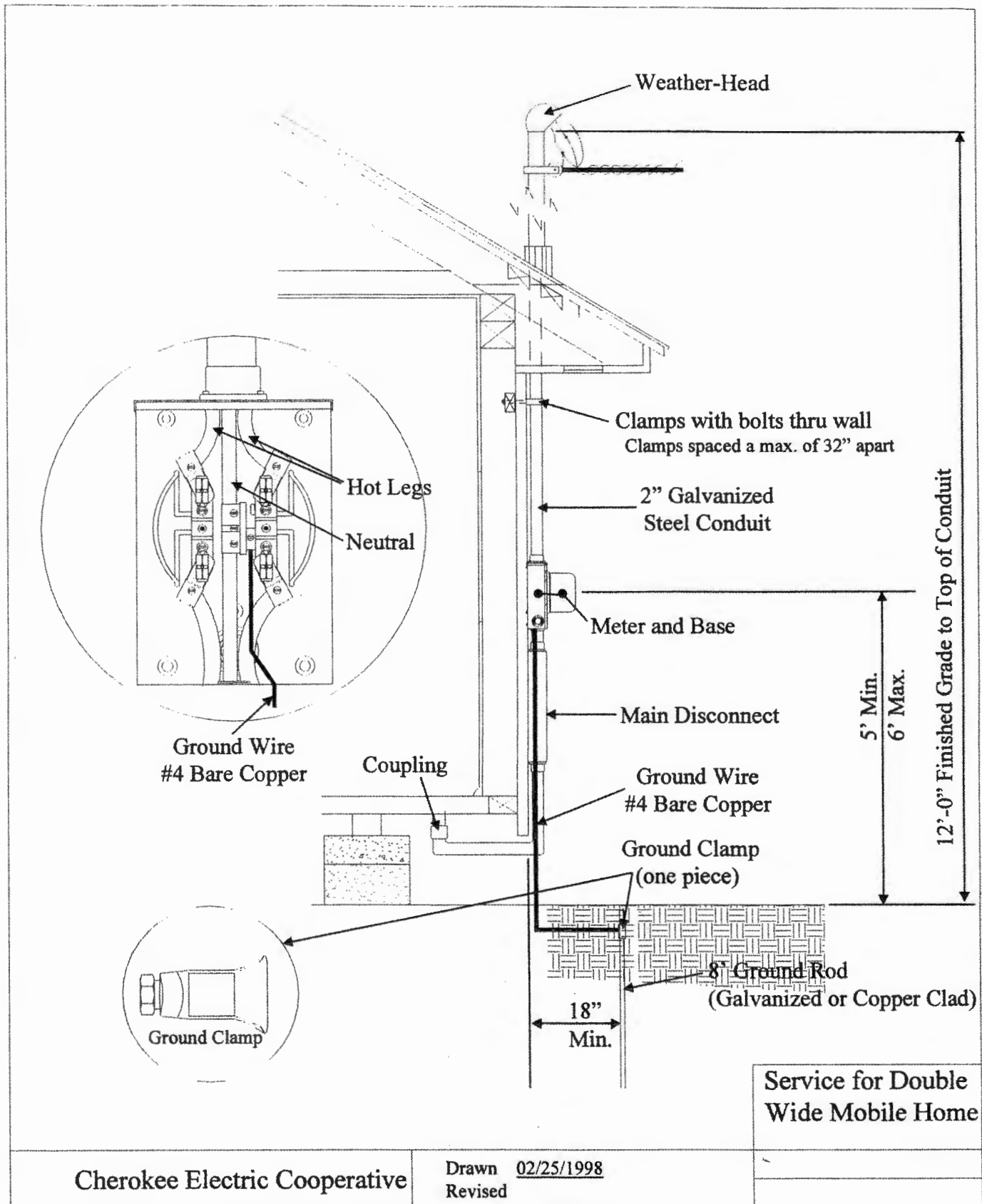


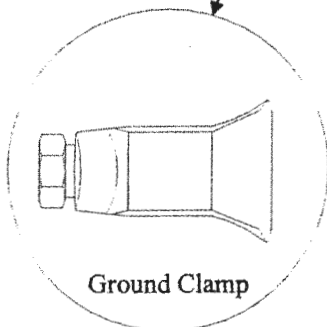
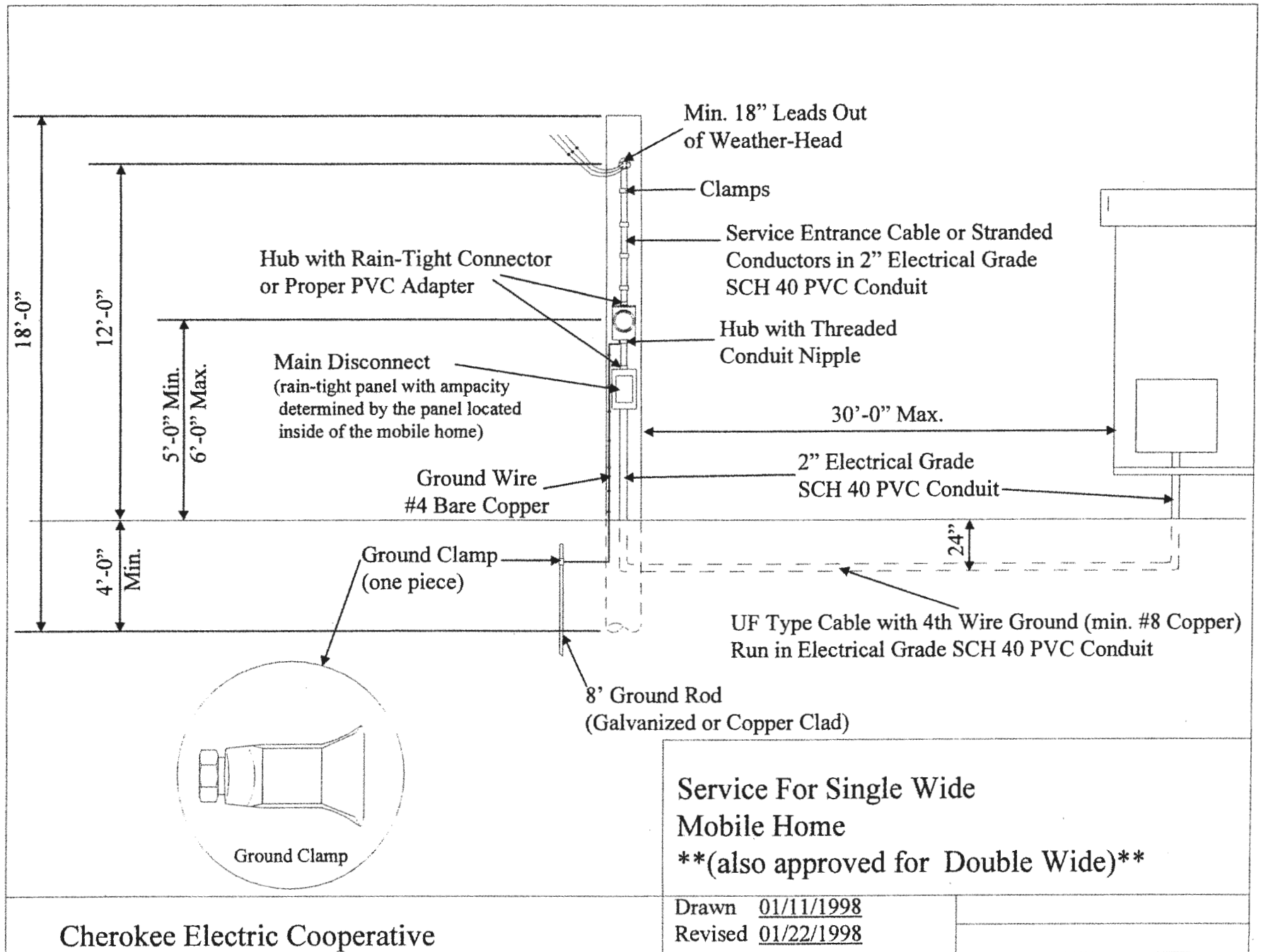


Cherokee Electric Cooperative

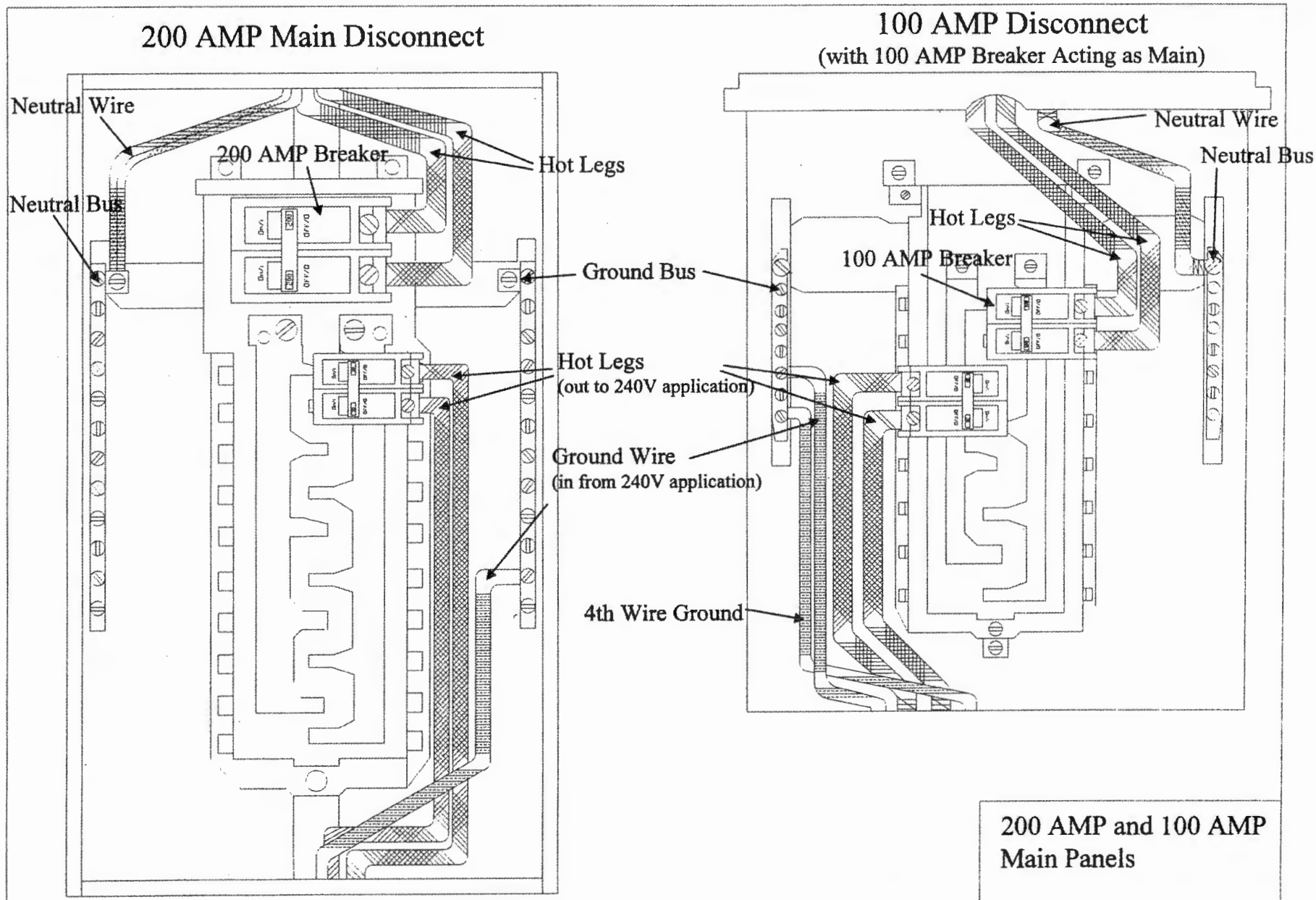
Drawn 01/09/1998  
 Revised 02/24/1998

Service Entrance without going thru the Roof





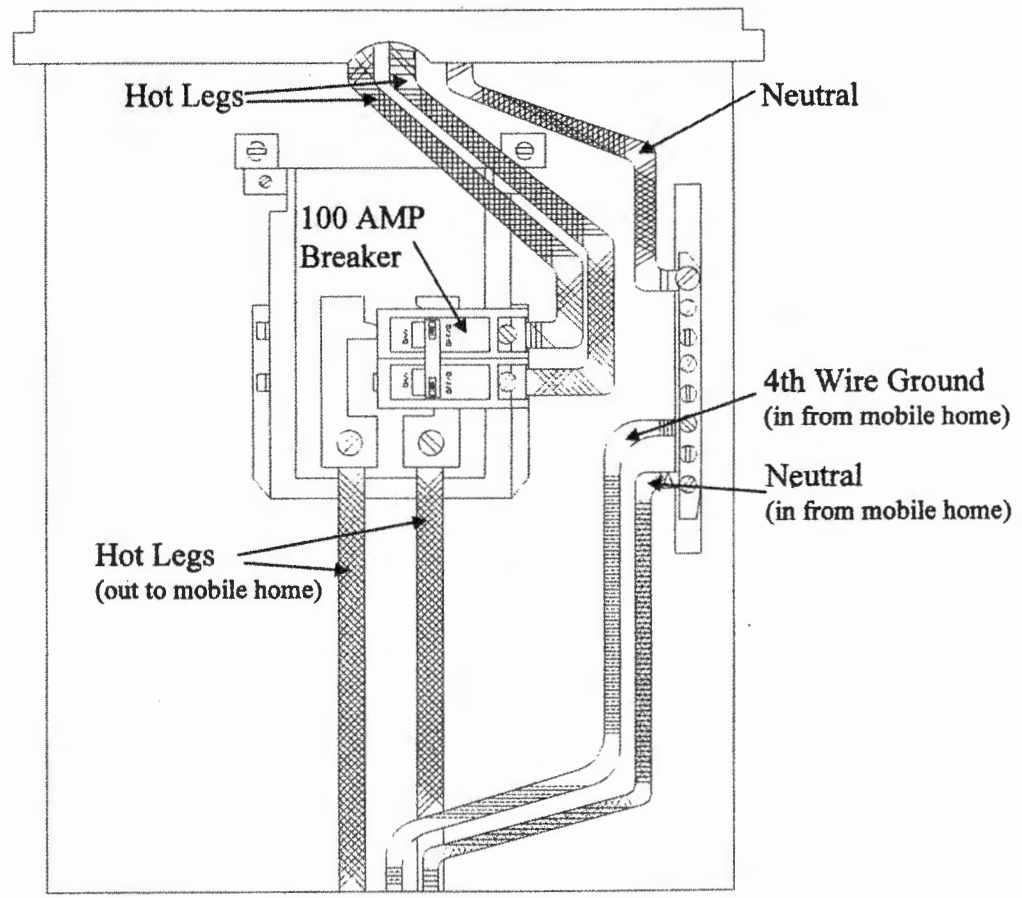
Cherokee Electric Cooperative



200 AMP and 100 AMP  
Main Panels

Cherokee Electric Cooperative

Drawn 01/20/1998  
Revised 02/25/1998



100 AMP Breaker Acting  
as Main Disconnect  
Alternate Method