

## METER LOOP SPECIFICATIONS

### Wire Size per Switch/Breaker Box

The size of conductor is determined by the switch box or breaker box size. Reduced neutral will not be allowed. The consumer shall have a main disconnect that meets or exceeds the current NEC RULES.

SIZE OF LOOP	SINGLE PHASE RESIDENTIAL		ALL OTHERS	
30 amp (stock water well only)				
60 amp			# 4 Cu	# 3 Al
70 amp			# 2 Cu	# 2 Al
100 amp	# 4 Cu	# 2 Al	# 2 Cu	1/0 Al
125 amp	# 2 Cu	1/0 Al	#1 Cu	2/0 Al
150 amp	# 1 Cu	2/0 Al	# 1/0 Cu	4/0 Al
175 amp	# 1/0 Cu	4/0 Al	# 2/0 Cu	4/0 Al
200 amp	# 2/0 Cu	4/0 Al	# 3/0 Cu	250 Al
320 amp	250 Cu	350 Al		

Wire sizing should meet current NEC rules if they change from the table above.

### Conduit Size for "Above Roof-Line" on a house Must be Rigid Metal Conduit

DISTANCE OF SERVICE	CONDUIT SIZE
100' or Less	2"
Over 100'	2 ½"

### Conduit Size for All Other Overhead Applications Conduit must be EMT or Rigid

METER BASE AMPERAGE	CONDUIT SIZE
50 amp	1"
100-150 amp	1 ¼"
200 amp	2"
320 amp	3"

1. On overhead applications, the consumer's responsibility begins at the service entrance weatherhead. Contact CCECA's Engineering Department for details.
2. On underground applications, the consumer's responsibility begins at the service entrance elbow. Contact CCECA's Engineering Department for details.
3. Upon notification of a completed and approved meter loop, the Cooperative will connect service and install a meter.
  - Per current NEC 550.32, Mobile Homes must use a permanently installed meter pole located no more than 30 feet from the Mobile Home it serves.
  - Member-owned items are to be installed on cooperative-owned poles or equipment.
  - No meter pole is allowed to have more than two meter loops.

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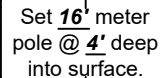
## OVERHEAD SERVICE

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Pole notes:

- CONTACT TEXAS 811 BEFORE DIGGING 1-800-344-8377**

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DRAWN BY: CDN
CHECKED BY: CY
DATE: 7/6/2020
SCALE: 1/2" = 1' - 0"
SHEET NO: 4

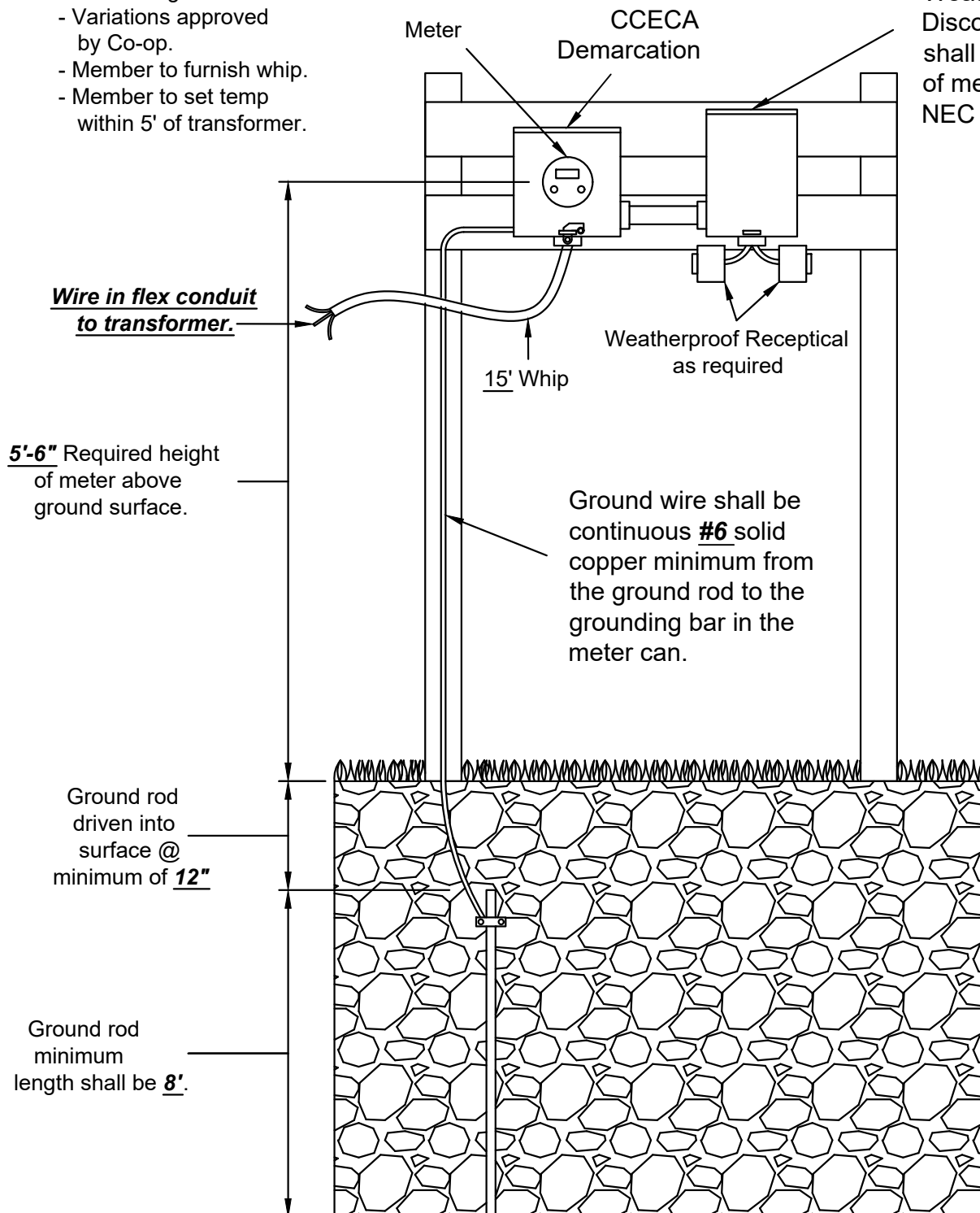
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DATE: 7/2/2020
SCALE: 1/2" = 1' - 0"
SHEET NO: 5



## UNDERGROUND SERVICE

Pole notes:

- Weatherproof  
Disconnect  
shall be within 3'  
of meter base (per  
NEC 230.70(A)).



DRAWN BY: CDN
CHECKED BY: CY
DATE: 7/2/2020
SCALE: 1/2" = 1' - 0"
SHEET NO: 6

## Meter Loop Specification

29880 Highway 69 North  
Rusk, Texas 75785  
Telephone: (903)-683-2248  
Fax: (903)-683-5012  
[www.cceca.net](http://www.cceca.net)

[illegible]



CCECA  
Demarcation

Main Breaker  
Shall be within  
3' of meter base  
(per NEC  
230.70(A)).

Ground wire shall be continuous **#6** solid copper minimum from the ground rod to the grounding bar in the meter can. Ground wire shall be on the outside of house for visible inspection.

**CCECA will install  
2" for 200 amp or  
3" for 320 amp**  
Grey electrical  
Sch. 40 PVC  
conduit riser.

**5'-6"** Required height  
of meter above  
ground surface.

Ground rod  
driven into  
surface @  
minimum of **12"**

Minimum of 24" cover is required.

CCECA will install  
Elbow/Sweep -  
service entrance.

Ground rod minimum  
length Shal be **8'**.

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GENERATOR





Weatherproof  
Disconnect  
shall be within 3'  
of meter base (per  
NEC 230.70(A)).

## Meter

## Conduit to Solar Inverters

5'-6'

Ground wire shall be continuous #6 solid copper minimum from the ground rod to the grounding bar in the meter can. Ground wire shall be on the outside of house for visible inspection.

Ground rod  
driven into  
surface @  
minimum of **12"**

Ground rod  
minimum  
length shall be **8'**

5'-6'

## Generator

CHECKED BY: CY

DATE: 7/9/2020

SCALE: 1/2" = 1' - 0"

SHEET NO. \_\_\_\_\_

11

Generator

Underground Service Transfer Switch

## Meter Loop Specification

Cherokee County  
Electric Cooperative

29880 Highway 69 North  
Rusk, Texas 75785  
Telephone: (903)-683-2248  
Fax: (903)-683-5012  
[www.cceca.net](http://www.cceca.net)

[illegible]



# DISTRIBUTED GENERATION



Weatherproof Disconnect shall be within 3' of meter base (per NEC 230.70(A)).

Meter

Conduit to Solar Inverters

5'-6"

Ground wire shall be continuous #6 solid copper minimum from the ground rod to the grounding bar in the meter can. Ground wire shall be on the outside of house for visible inspection.

The diagram illustrates the installation of a solar meter and disconnect on a brick wall. A meter is mounted on the wall, and a weatherproof disconnect is installed within 3 feet of the meter base. Conduit runs from the meter to the solar inverters. A ground wire, made of continuous #6 solid copper, runs from a ground rod in the yard to the grounding bar in the meter can, visible on the outside of the house. The ground wire is labeled as being on the outside of the house for visible inspection. The distance from the ground rod to the meter is indicated as 5'-6".

A diagram showing a truck on a road. A line of sight from a person's eye (represented by a circle with two dots) passes over a brick wall and reaches the top of the truck. A vertical arrow on the left indicates the height of the person's eye.

The diagram shows a cross-section of a brick wall. A vertical crack runs through the center of the wall. A horizontal crack runs along the bottom of the wall, with an arrow pointing to the right, indicating the direction of the crack.

5'-6"

Ground wire shall be continuous #6 solid copper minimum from the ground rod to the grounding bar in the meter can. Ground wire shall be on the outside of house for visible inspection.

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## Meter Loop Specification

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