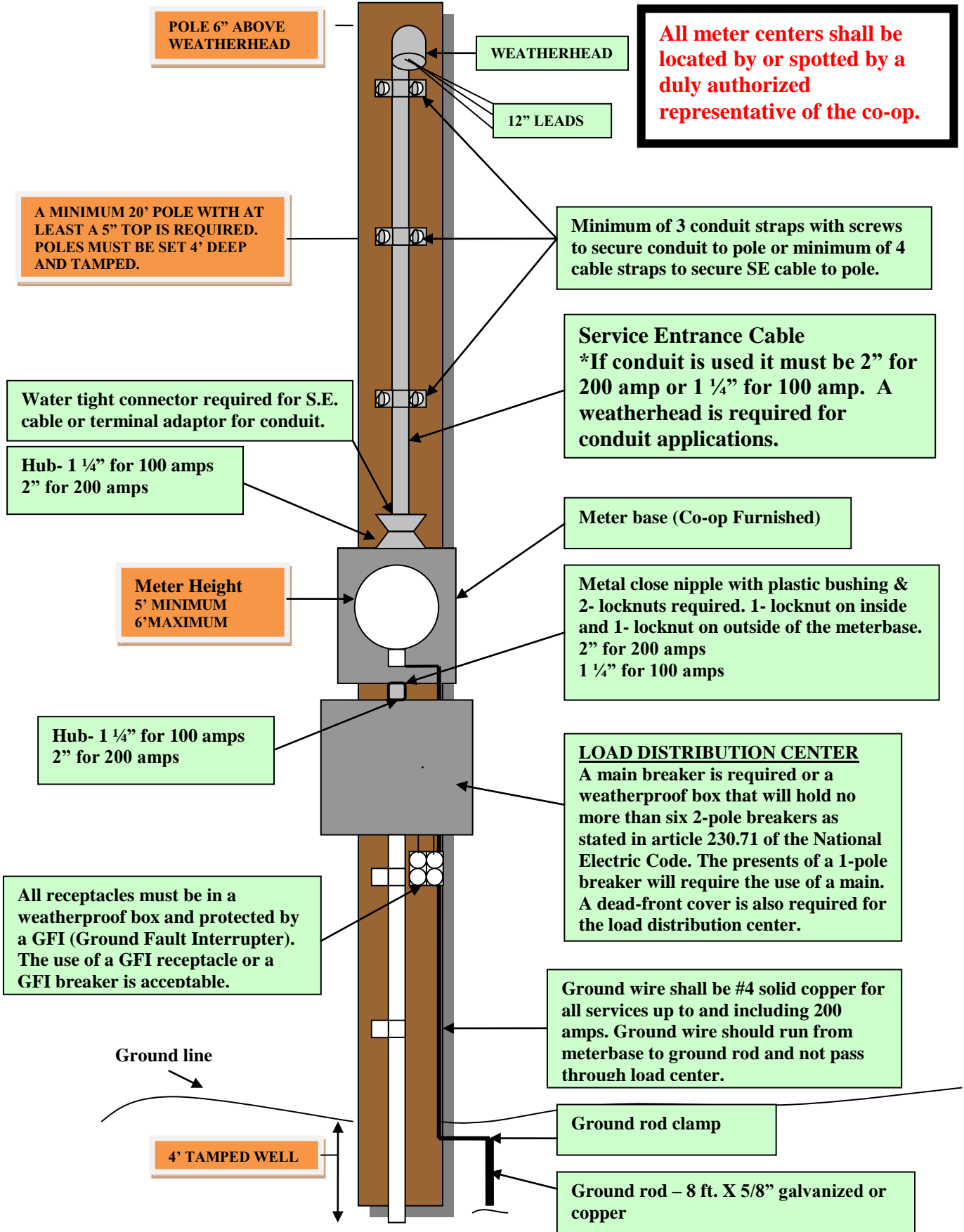


**SOUTHERN PINE ELECTRIC COOPERATIVE
METER POLE REQUIREMENTS**



**SERVICE ENTRANCE CONDUCTOR SIZES
FOR
THREE-WIRE SINGLE-PHASE DWELLING SERVICES
(RESIDENTIAL ONLY)**

SIZE ENTRANCE SWITCH	COPPER CONDUCTORS		ALUMINUM CONDUCTORS	
	Size of Insulated Conductor	Minimum Size of Neutral	Size of Insulated Conductor	Minimum Size of Neutral
100	2 - #4	1 - #6	2 - #2	1 - #4
150	2 - #1	1 - #3	2 - #2/0	1 - #1
200	2 - #3/0	1 - #1/0	2 - #4/0	1 - #2/0
400	2 - 400 MCM	1 - 250 MCM	2 - 600 MCM	1 - 350 MCM

GROUNDING CONDUCTOR SIZES	
SERVICE ENTRANCE SIZE-MAIN RATING	Size of Grounding Conductors
	COPPER ONLY
100	#4
150	#4
200	#4
400	#2

Notes:

#1 – The meter socket only is furnished by the co-op.

#2 – A 100 amp minimum capacity is required to all residential services.

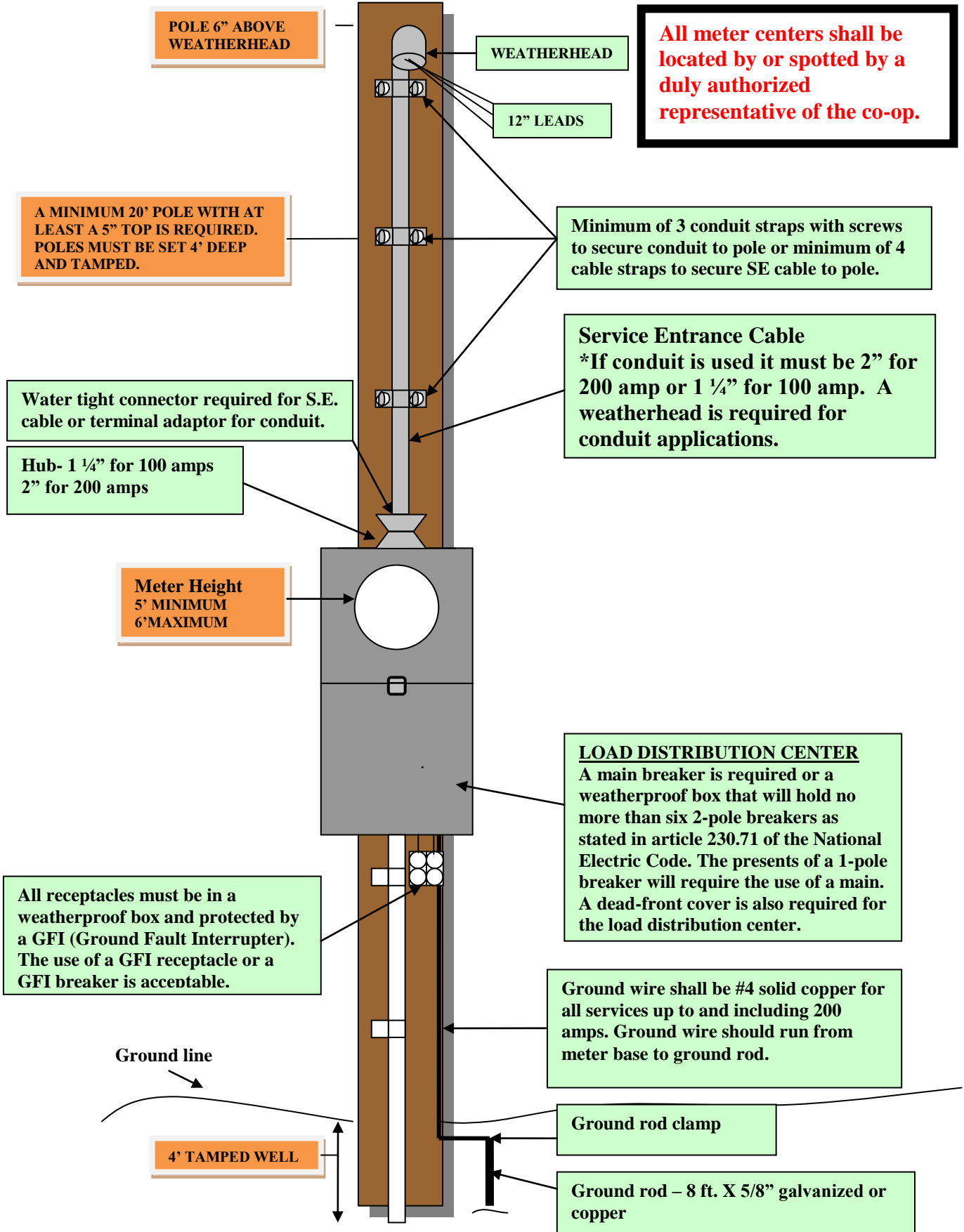
#3 – The co-op will not install electric meters on inside locations. All meter centers shall be located by or spotted by a duly authorized representative of the co-op.

#4- All meter poles must be at least 3 feet from the structure.

#5 – The meter base and/or load center must be mounted to pressure treated boards and attached to the pole. Meterbase, load center and all cable/conduit straps must be attached with screws. Nails will not be acceptable.

#6 – The co-op strongly recommends the use of conduit. Where conduit is not used to support the service drop conductors gray schedule 80 PVC conduit may be used. Weatherhead must be used with conduit.

**SOUTHERN PINE ELECTRIC COOPERATIVE
METER POLE REQUIREMENTS FOR POWER PANELS**



POLE 6" ABOVE WEATHERHEAD

WEATHERHEAD

12" LEADS

All meter centers shall be located by or spotted by a duly authorized representative of the co-op.

A MINIMUM 20' POLE WITH AT LEAST A 5" TOP IS REQUIRED. POLES MUST BE SET 4' DEEP AND TAMPED.

Minimum of 3 conduit straps with screws to secure conduit to pole or minimum of 4 cable straps to secure SE cable to pole.

Water tight connector required for S.E. cable or terminal adaptor for conduit.

**Service Entrance Cable
*If conduit is used it must be 2" for 200 amp or 1 1/4" for 100 amp. A weatherhead is required for conduit applications.**

**Hub- 1 1/4" for 100 amps
2" for 200 amps**

**Meter Height
5' MINIMUM
6' MAXIMUM**

LOAD DISTRIBUTION CENTER
A main breaker is required or a weatherproof box that will hold no more than six 2-pole breakers as stated in article 230.71 of the National Electric Code. The presents of a 1-pole breaker will require the use of a main. A dead-front cover is also required for the load distribution center.

All receptacles must be in a weatherproof box and protected by a GFI (Ground Fault Interrupter). The use of a GFI receptacle or a GFI breaker is acceptable.

Ground wire shall be #4 solid copper for all services up to and including 200 amps. Ground wire should run from meter base to ground rod.

Ground line

Ground rod clamp

4' TAMPED WELL

Ground rod – 8 ft. X 5/8" galvanized or copper

**SERVICE ENTRANCE CONDUCTOR SIZES
FOR
THREE-WIRE SINGLE-PHASE DWELLING SERVICES
(RESIDENTIAL ONLY)**

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	Size of Insulated Conductor	Minimum Size of Neutral	Size of Insulated Conductor	Minimum Size of Neutral
100	2 - #4	1 - #6	2 - #2	1 - #4
150	2 - #1	1 - #3	2 - #2/0	1 - #1
200	2 - #3/0	1 - #1/0	2 - #4/0	1 - #2/0
400	2 - 400 MCM	1 - 250 MCM	2 - 600 MCM	1 - 350 MCM

GROUNDING CONDUCTOR SIZES	
SERVICE ENTRANCE SIZE-MAIN RATING	Size of Grounding Conductors
	COPPER ONLY
100	#4
150	#4
200	#4
400	#2

Notes:

#1 – A 100 amp minimum capacity is required to all residential services.

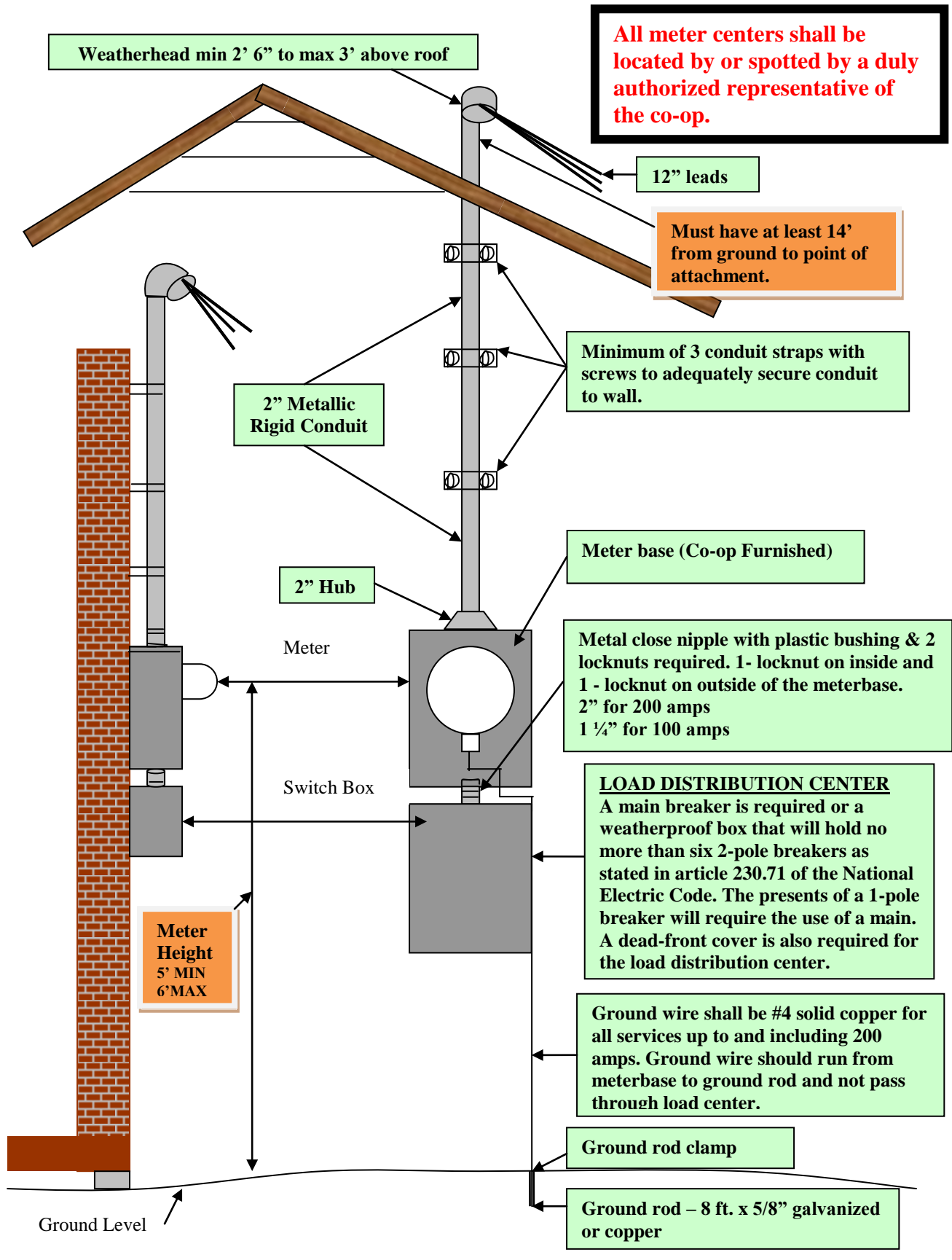
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**SOUTHERN PINE ELECTRIC COOPERATIVE
OUTSIDE WALL MOUNTED REQUIREMENTS**



**SERVICE ENTRANCE CONDUCTOR SIZES
FOR
THREE-WIRE SINGLE-PHASE DWELLING SERVICES
(RESIDENTIAL ONLY)**

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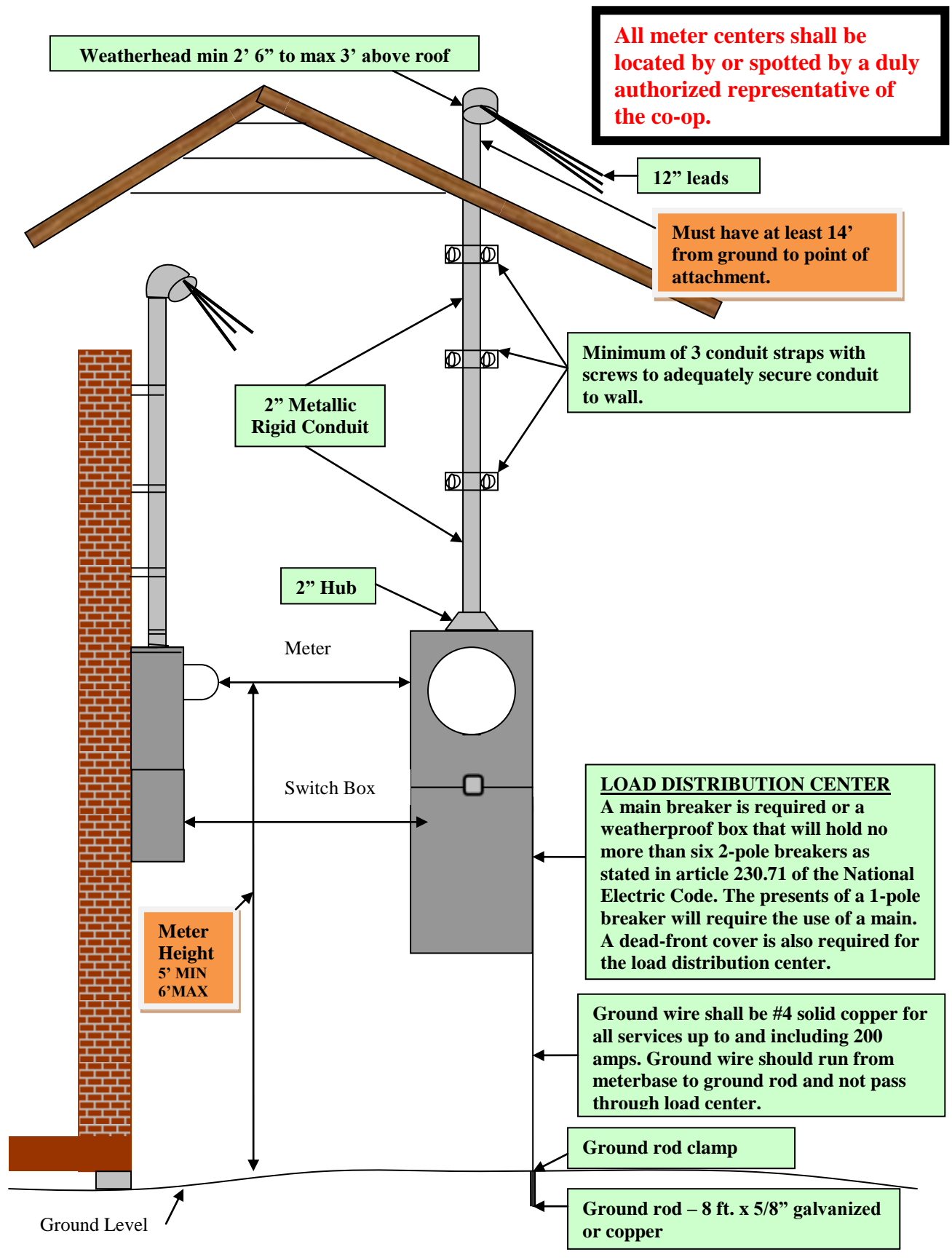
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SOUTHERN PINE ELECTRIC COOPERATIVE
OUTSIDE WALL MOUNTED REQUIREMENTS FOR POWER PANELS



**SERVICE ENTRANCE CONDUCTOR SIZES
FOR
THREE-WIRE SINGLE-PHASE DWELLING SERVICES
(RESIDENTIAL ONLY)**

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	Size of Insulated Conductor	Minimum Size of Neutral	Size of Insulated Conductor	Minimum Size of Neutral
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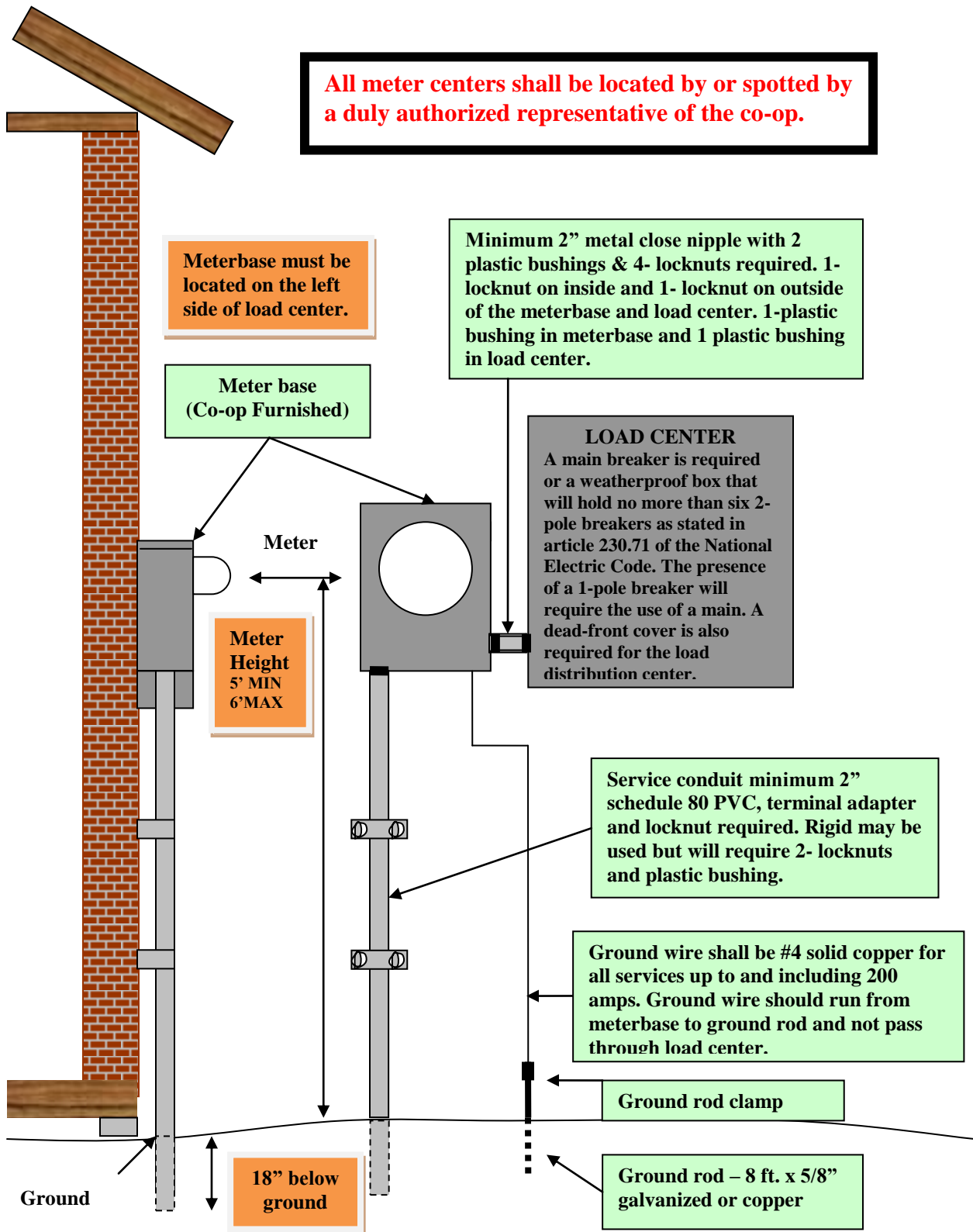
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**SOUTHERN PINE ELECTRIC COOPERATIVE
UNDERGROUND REQUIREMENTS**

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**SERVICE ENTRANCE CONDUCTOR SIZES
FOR THREE-WIRE SINGLE-PHASE DWELLING SERVICES
(RESIDENTIAL ONLY)**

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	Size of Insulated Conductor	Minimum Size of Neutral	Size of Insulated Conductor	Minimum Size of Neutral
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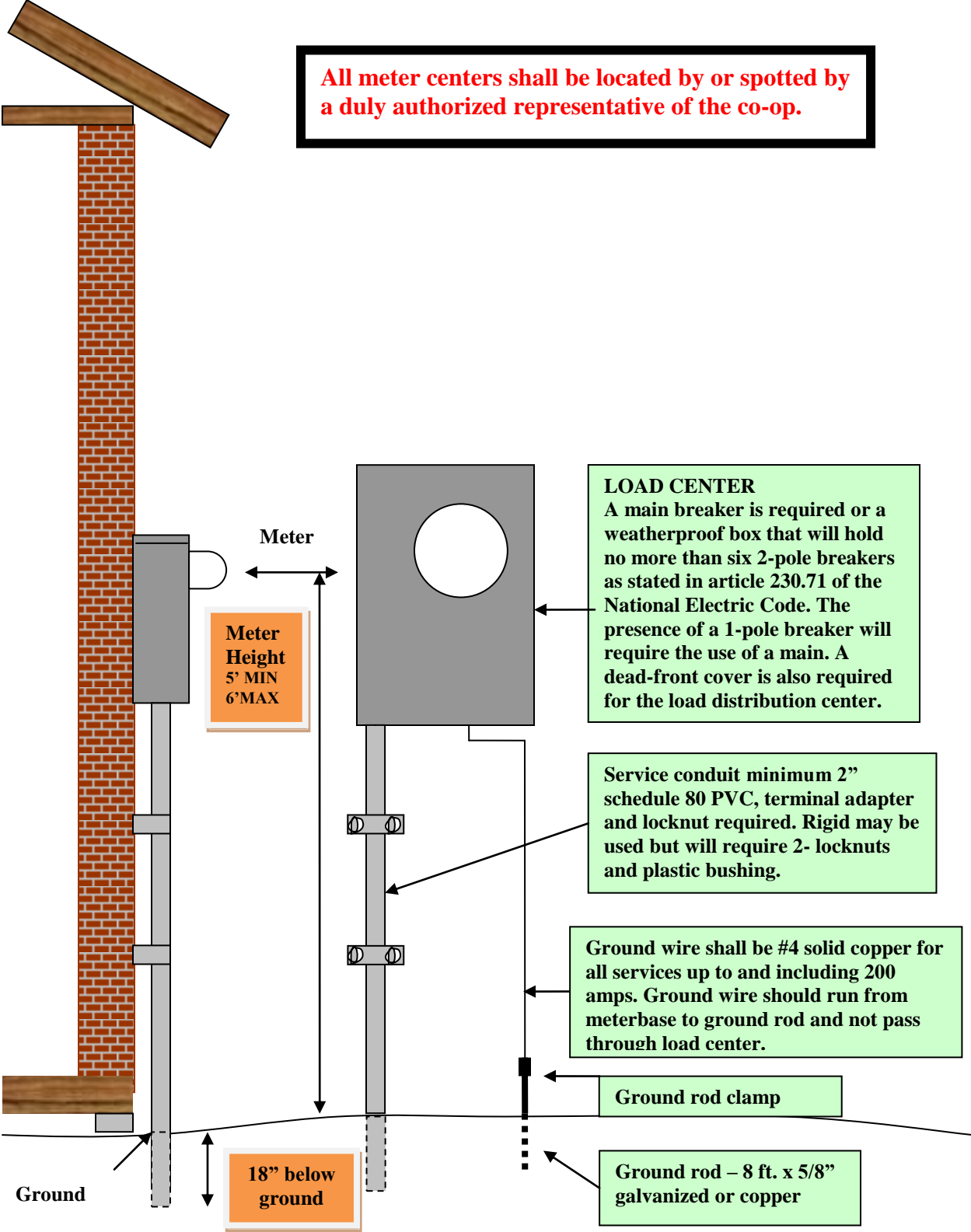
GROUNDING CONDUCTOR SIZES	
SERVICE ENTRANCE SIZE-MAIN RATING	Size of Grounding Conductors
	COPPER ONLY
100	#4
150	#4
200	#4
400	#2

UNDERGROUND REQUIREMENTS

1. The co-op will furnish the meter socket only.
2. Wire size, meter socket ampacity, nipple and bushing sizes will depend upon service size desired.
3. Service conduit is furnished by the member. It can be rigid metallic or PVC. Either must be a minimum of 2 inch. Consumer is responsible for busting any footing in conflict with the service conduit.
 - A. **Rigid Metal-** Must have locknuts inside and out where conduit enters meter base. A plastic bushing must cap-off conduit inside meter base and load center.
 - B. **PVC-** Must be schedule 80 gray electrical conduit. Must supply terminal adapter and lock nut.
4. Service entrance conduit must be installed on the bottom left hand side of meter base.
5. Minimum 2" metal close nipple with 2 plastic bushings & 4 locknuts required. 1 locknut on inside and 1 locknut on outside of the meterbase and load center. 1 plastic bushing in meterbase and 1 plastic bushing in load center.
6. Consumer to provide 3" Scheduled 40 gray conduit for any portion of underground service drop that will be under driveway, sidewalks, or under any paved areas.

**SOUTHERN PINE ELECTRIC COOPERATIVE
UNDERGROUND REQUIREMENTS FOR POWER PANELS**

All meter centers shall be located by or spotted by a duly authorized representative of the co-op.



**SERVICE ENTRANCE CONDUCTOR SIZES
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	COPPER ONLY
100	#4
150	#4
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