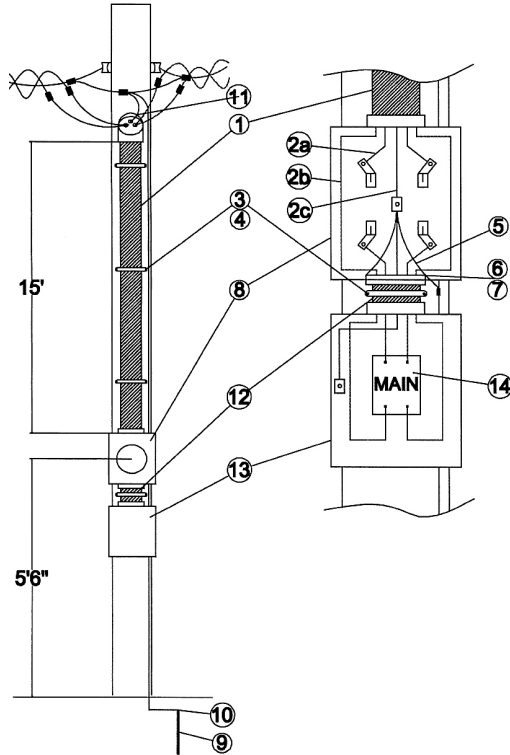


5-WIRE METER LOOP

INSTALLATION SPECIFICATION | OVERHEAD-TO-UNDERGROUND (OH-UG)

SERVICE SIZING
100 A | 200 A | 400 A

01 INSTALLATION DIAGRAM



CALLOUT NUMBERS CORRESPOND TO THE MATERIALS TABLE

02 MATERIALS & CONDUCTOR SIZING

REF #	DESCRIPTION	QTY	100 A	200 A	400 A
1	Conduit: Rigid Galvanized or Aluminum	15'	2"	2-1/2"	3-1/2"
2a	Conductor, Line Side	15'	#2 Copper #1 Aluminum	3/0 Copper 4/0 Aluminum	500 MCM
2b	Conductor, Load Side	25'	#2 Copper #1 Aluminum	3/0 Copper 4/0 Aluminum	500 MCM
2c	Conductor, Neutral	25'	#4 Copper #3 Aluminum	1/0 Copper 2/0 Aluminum	3/0 Copper 4/0 Aluminum
3	Conduit Strap	4	2"	2-1/2"	3-1/2"
4	Lag Screw	8	As Required		
5	Ground Conductor	As Required	#6	#6	#6
6	Bushing, Bonding Type	2	2"	2-1/2"	3-1/2"
7	Galvanized Locknut	2	2"	2-1/2"	3-1/2"
8	Meterbase	1	Furnished by Coop		
9	Ground Rod	1	Installed by Coop		
10	Ground Rod Clamp	1	Installed by Coop		
11	Weatherhead	1	2"	2-1/2"	3-1/2"
12	Conduit Nipple	1	2"	2-1/2"	3-1/2"
13	Weatherproof Disconnect	1	100A	200A	400A
14	Main Breaker	1	100A	200A	400A

INSTALLATION NOTES

- 01 Clay Electric will install proper guying for its overhead wires; you are responsible for guying your overhead wires.
- 02 All line-side, load-side, and neutral conductors must be identified.
- 03 Line side includes conductors from the top connections on the meter socket up through the weatherhead to the connection to the Cooperative's wire.
- 04 Load side includes conductors from the bottom of the meter to the top of the main disconnect, and extending from the bottom of the main disconnect back through the meterbase up to the weatherhead to the connections with the owner's wire.
- 05 Neutral conductor extends continuously from the neutral lug of the main disconnect through the meter socket grounding lug up through the weatherhead.

REVIEW BEFORE CONSTRUCTION

- 06 The neutral conductor should not be automatically reduced two sizes. If there are no 240-volt loads, the neutral needs to be the same size as the line conductor because it will carry the same current.
- 07 The grounding lug of the meterbase should be connected to the Cooperative-installed pole ground with a #6 copper wire. Compression connections are preferred. All metal bushings should be bonded to either the grounding lug in the meterbase or the grounding lug in the disconnect. Leave 5 feet of wire (tails) outside the weatherhead so the Cooperative can attach its wire.
- 08 The member has the option to purchase a one-piece meterbase/breaker box combo.

OTHER / PROJECT NOTES