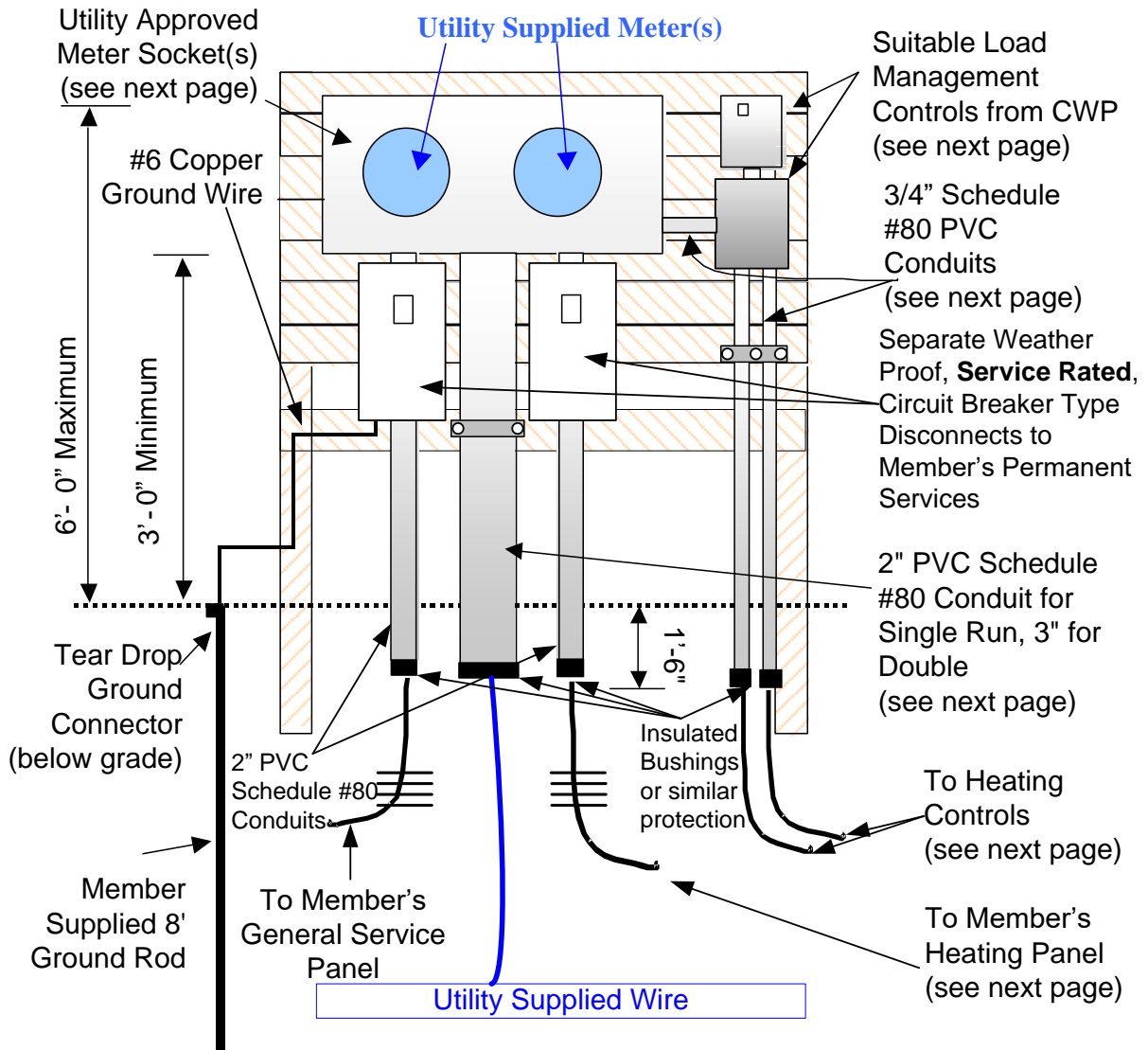


Member Supplied Pedestal Mounted Underground Double Meter Assembly, Residential, 2 X 200 Amp Rated



Notes: **All Meter Assemblies Must Be Approved by Minnesota State Board of Electricity Prior to Energizing by Crow Wing Power.** Web-site: <http://www.dli.mn.gov>
Lumber to be either full treated, or rot resistant wood such as redwood or cedar. Uprights should be minimum 4"x4" size placed 2' - 3' in ground to avoid frost shifting. Backing material should be minimum 3/4" thickness. Width must be sufficient to adequately mount all equipment. A typical double meter socket is 25 1/4" h x 32 1/4" w. All Hardware must be rust resistant. **Please refer to the Crow Wing Power, Metering and Energy Management Control Standards book.**

CONDUCTOR SIZE (SUPPLIED BY CROW WING POWER)

Your field engineer will determine the correct size of wire(s) needed on the *line* side to supply your system. A single run of wire require at least a 2” PVC conduit. A service with 2 runs of wire will require a 3” PVC conduit. *Crow Wing Power stocks 3” conduit and fittings for our members. All exposed conduits must be Schedule 80.*

METER SOCKETS

Must be utility approved 200 amp rated, heavy duty double socket style with by-pass levers. Appropriate lugs on the line side of the meter(s) must be provided by the customer. Provide clearance for meter socket and control equipment on the pedestal, a typical double meter socket is 25 ¼” h x 32 ¼” w.

DISCONNECTS

Approved disconnects on load (customer) sides of the meter sockets are required. All disconnects must be separate from (not integrated into) the meter sockets.

CONTROL EQUIPMENT

Your Crow Wing Power energy management consultant will advise you on the type of controls your system will require. You are responsible for installation of this equipment.

ELECTRICAL CODE NOTES:

- Customer supplied wiring from the load side of the meter equipment must be sized in accordance with the National Electric Code. Please note that separate, dedicated ground wires are required. See charts below.
- Red warning ribbon is placed at least 12” above underground wiring.

Table 310:15 (B) (6)

Conductor Types and Sizes for 120/240-Volt 3-Wire, Single –Phase Dwelling Services and Feeder conductors. Conductor Types RHH,RHW-2, THHN, THHW, THW, THW-2, THWN, THWN-2, XHHW, XHHW-2, SE, USE, USE-2, (Wire)

Note: *This Chart is intended for Residential Type Lighting and Branch Circuit Panel Boards/Services.*

<u>Service Rating(Amps)</u>	<u>Aluminum Wire</u>	<u>Copper Wire</u>
100 Amp	# 2 AL	# 4 CU
150 Amp	# 2/0 AL	# 1 CU
200 Amp	# 4/0 AL	#2/0 CU
225 Amp	# 250 kcm AL	#3/0 CU
400 Amp	# 600 kcm AL	#400 kcm CU

Table 310:16

Conductor Type and Sizes for 120/240-Volt 3-Wire, Single –Phase Service and Feeder Conductors. Conductor Types RHW,THHN,THW,THWN,XHHW,USE,ZW (Wire)

Special Note: *This Chart is intended for Continuous Duty type Services for Heating and AC type Panel Boards/ Services. (All Services either Direct Metered or Sub-Metered)*

<u>Service Rating(Amps)</u>	<u>Aluminum Wire</u>	<u>Copper Wire</u>
100 Amp	# 1 or #1/0 AL	# 3 or # 2 CU
150 Amp	# 3/0 or #4/0 AL	# 1/0 CU
200 Amp	# 250 Kcm AL	# 3/0 CU
225 Amp	# 300 Kcm AL	# 4/0 CU
400 Amp	# 2- 250 Kcm AL	#2- 3/0 CU