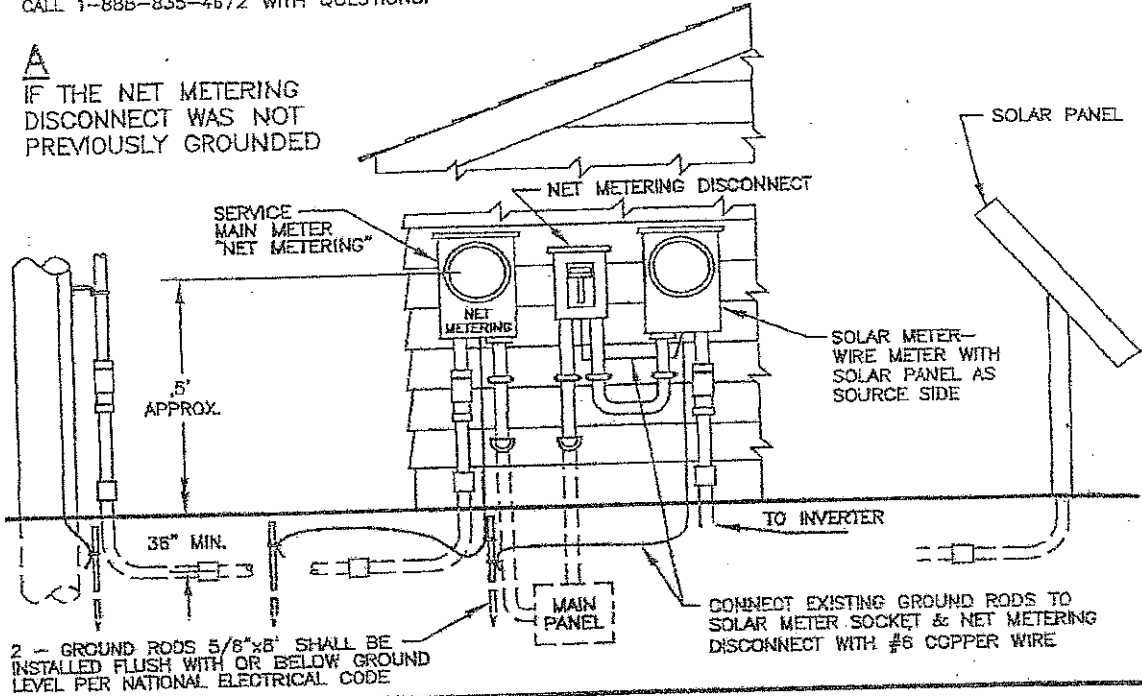


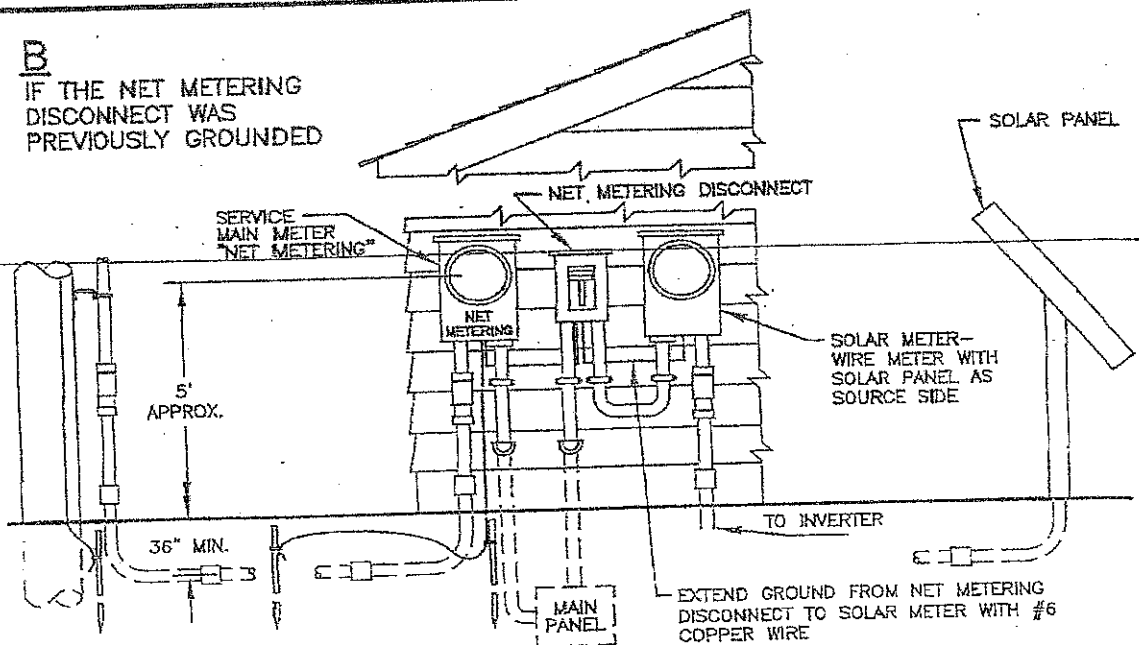
SOLAR RATE METERING

THIS SPECIFICATION SHOWS AN UNDERGROUND SERVICE WITH THE SOLAR METER LOCATED NEXT TO THE MAIN SERVICE METER. OTHER CONFIGURATIONS ARE POSSIBLE, BUT THE SOLAR METER MUST BE ELECTRICALLY CONNECTED ON THE UTILITY GRID SIDE OF THE INVERTER WITH THE SOLAR PANEL AS ITS SOURCE. PLEASE CALL 1-888-835-4672 WITH QUESTIONS.

A
IF THE NET METERING DISCONNECT WAS NOT PREVIOUSLY GROUNDING



B
IF THE NET METERING DISCONNECT WAS PREVIOUSLY GROUNDING



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DRAWINGS/STANDARD/ELECT/GMP Solar Service Requirement.dwg

ADOPTED BY HARDWICK ELECTRIC DEPARTMENT: JUNE/2011

METER SOCKET SPECIFICATIONS

GENERAL SOCKET SPECIFICATIONS:

1. Sockets shall be Listed and Approved for their location and use.
2. Sockets shall be of the rectangular sheet-metal type. Round-type sockets or cast-metal sockets are not permitted.
3. The socket rating shall equal or exceed the capacity of the service entrance equipment and conductors.
4. The socket lugs shall be sized appropriately to fit the required service conductor size. The socket lugs shall be of the Lay-in type. A grounding electrode conductor connector, connected to the neutral bus, shall be included in sockets intended for use in residential applications.
5. Sockets may be the ring type or ringless. Sealing rings, if required, shall be supplied by the customer.
6. Automatic bypasses are not permitted under any circumstances.
7. There shall normally, not be more than 3 vertical positions at any multiple-socket installations.
8. All sockets, at the time of installation, must be equipped with the number of terminals required by the type of service to be metered.
9. All four terminal sockets shall have the capacity of adding a fifth terminal in the (6 or 9 o'clock positions), without removing the terminal blocks. When an existing installation is changed to accommodate a different type of service or rate requiring additional terminals, the additional terminals must be furnished and installed by the customer at the time of the change or the socket replaced with a socket containing the proper number of terminals.
10. Cover plates shall be the approved clear plastic type. The Utility will supply them. They will be used after the wiring is completed to protect the interior until a meter is set.
11. Note carefully that on 120/240 volt, three phase, four wire, Delta services, the conductor that measures 208 volt-to-ground must be connected to the right hand terminals of the sockets.
12. On commercial and industrial services all meter sockets shall be equipped with manual by-passes and shields for meter jaws. See Drawings 602 and 603.
13. Underground Single Phase sockets, fed by 350mm and larger conductors, are required to be provided with a side-buss to avoid sharp cable bends. Exception: if a side-buss socket is not available, then an acceptable alternative is a socket with enough space to allow the cable to be bent at an appropriate radius. The socket shall meet the dimensions required by NEC Article 312.6. That Article specifies that one side of the socket, the space between the nearest top terminal and the wall of the socket shall be 9" minimum. Additionally, the space between the top terminal and the top of the socket shall be 5" minimum. These dimensions, and this exception, shall apply to 200 amp, and smaller, sockets fed by 350mm cable, with lay-in-style connectors. ~~This exception is only allowed based on unavailability of the side buss sockets, and, no based on price differences.~~
14. Solar metering must conform to PSB Rule 5.100 for Net Metering Systems.
15. Solar net metering installations only - where the main service meter, net metering disconnect, and solar meter are all adjacent to each other, extend the ground wire to the new equipment as shown in Figures A or B, whichever is applicable.

The important part here is to have all equipment such as meter sockets and net metering disconnects that are within touch distance (7 ft minimum) of each other bonded together and grounded to the same ground electrode. This grounding and bonding must be able to be confirmed without entering the customer's premises or inspecting their main panel.

It is the customer's responsibility and that of their electrician to ensure that the overall installation satisfies this criteria and also meets any applicable requirements of the National Electrical Code.

NetMetering-Solar29June2008.doc
Revised: 10July2008



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