

Net Metering One-Line (25kW or Less)

REVISED 9/3/2025

Completed by GVEA

- Provide All Applicable Information
- Add Details for Additional/Optional Equipment (i.e. Transformers)
- See GVEA Construction Guides for Application Service Type.

GVEA
 Existing Drop/Lateral _____ [Yes/No]
 Existing Drop Conductor Size _____ [AWG]
 Drop Length _____ [Feet]
 Existing Transformer Size _____ [kVA or None]
 Overhead/Underground _____

GVEA Transformer

#4 Cu GEC To Approved Grounding System (size Per NEC)

Note: Must comply with NEC 705.12

Member Distribution Panel
 (Separate or part of Service Entrance)

Connection Type

Option 1 - Member Distribution Panel

Option 2 - Service Entrance

Note: Safety disconnect shall be placed next to the service disconnect. If this is not feasible, a map showing the location of the disconnect must be attached to the service disconnect. Disconnect must be outside of any structure and readily accessible.

Safety Switch

Switch Rating _____ [Amps]

(As Overcurrent Device Rating or Grater)

Lockable, Visible Open _____ [Yes/No]

Inverter

Manufacturer _____

Model _____

L-L Output Voltage _____ [VAC]

Number of Units _____

Nominal Rating _____ [Watts, Each]

Total Rating _____ [Watts, Total]

Note: The use of Micro Inverters meets the requirements of NEC 690.12.

Rapid Shutdown Initiator

Note: Disconnect means per NEC 690.13 and 690.15.

Rapid Shutdown Switch

Note: Disconnect means per NEC 694.20 and 694.22.

Renewable Generation Unit

Manufacturer _____

Model _____

Number of Units/Panels _____

Nominal Rating _____ [Watts, Each]

Total Rating _____ [Watts, Total]

Member Name _____

GVEA Project # _____

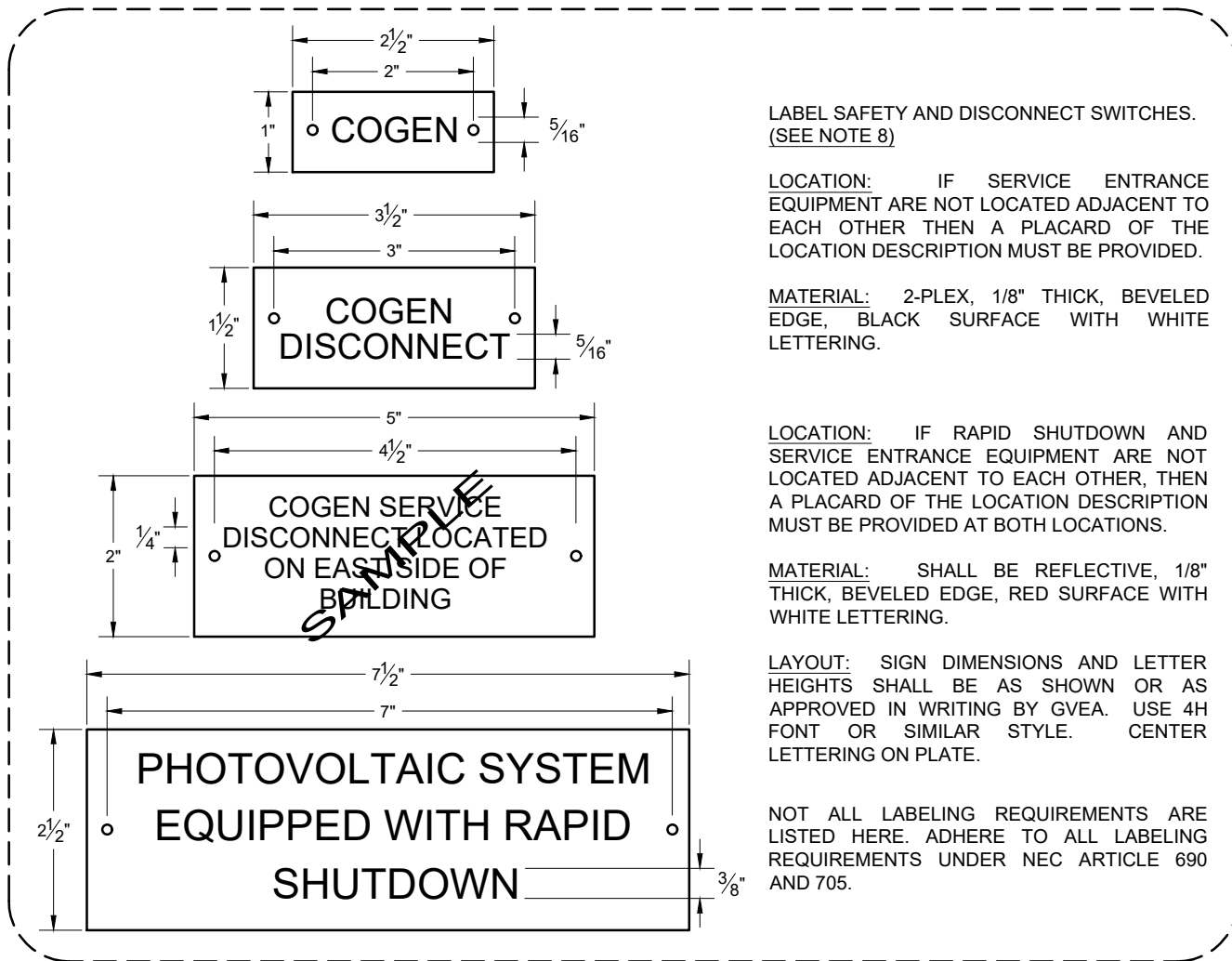
Date _____

Prepared By _____

Net Metering (25kW or Less)

REVISED 10/15/2025

LABELING SPECIFICATIONS



LABEL SAFETY AND DISCONNECT SWITCHES.
(SEE NOTE 8)

LOCATION: IF SERVICE ENTRANCE EQUIPMENT ARE NOT LOCATED ADJACENT TO EACH OTHER THEN A PLACARD OF THE LOCATION DESCRIPTION MUST BE PROVIDED.

MATERIAL: 2-PLEX, 1/8" THICK, BEVELED EDGE, BLACK SURFACE WITH WHITE LETTERING.

LOCATION: IF RAPID SHUTDOWN AND SERVICE ENTRANCE EQUIPMENT ARE NOT LOCATED ADJACENT TO EACH OTHER, THEN A PLACARD OF THE LOCATION DESCRIPTION MUST BE PROVIDED AT BOTH LOCATIONS.

MATERIAL: SHALL BE REFLECTIVE, 1/8" THICK, BEVELED EDGE, RED SURFACE WITH WHITE LETTERING.

LAYOUT: SIGN DIMENSIONS AND LETTER HEIGHTS SHALL BE AS SHOWN OR AS APPROVED IN WRITING BY GVEA. USE 4H FONT OR SIMILAR STYLE. CENTER LETTERING ON PLATE.

NOT ALL LABELING REQUIREMENTS ARE LISTED HERE. ADHERE TO ALL LABELING REQUIREMENTS UNDER NEC ARTICLE 690 AND 705.

NOTES:

- All grounding must meet current NEC requirements.
- Conductors or cables under drivable areas shall be placed in RMC or IMC conduit. Equipment grounding conductor to a distribution panel is required. See NEC 250.32(B).
- Conductor insulation shall be type XHHW or RHW.
- Installation of net metering service equipment shall adhere to all applicable national, state, and local construction and safety codes. Including applicable NEC requirements. Reference NEC Article 690.
- A permanent plaque or directory, denoting all electrical power sources on or in the premises, shall be installed at each service equipment location. See NEC 705.10
- The sum of the distribution panel overcurrent protective device rating and 125% of total rated inverter AC current shall not exceed 120% of busbar rating. See NEC 705.12
- To be approved for a connection to Golden Valley's system, the member's actual installation must correspond to a reviewed set of construction plans.
- Electrical disconnect switch energized from both sides shall be provided with placard indicating that all contacts might be energized, per NEC 705.22 (5).
- The installation of a net metering system on facilities with a primary meter, non-self contained meter, or service entrance capacity over 200A requires the submission and approval of drawings prepared by a Professional Engineer licensed in Alaska.
- Net metering Photovoltaic Systems must meet Rapid Shutdown requirements NEC 690.12 and 690.56.
- A drawing stamped by an Alaska licensed P.E. is required if the proposed installation deviates from the layout depicted on the GVEA one-line diagram.
- Attached labels and placards must be permanently affixed and rated for outdoor conditions.
- Cable and conduit leaving main structure must be buried. Recommended burial depth is 24" below final grade. NEC 300.5.