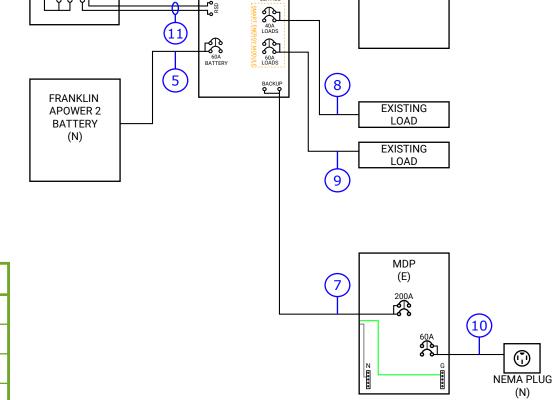




INVERTER TYPE: Q.MI.349B-G1, QTY 23 REQ'D, 349W, 240V

8.027 kW-AC/ 9.890 kW-DC



FRANKLIN WH A GATE

M

(E)

(6)

Min/Max Voltage (V):	Vmp/Voc (V):	Tk Vmp/Tk Voc (%/°C):
30.61	33.2	-0.30
41.85	38.7	-0.24

(INVERTER OUTPUT) X (1.25) = BRANCH CIRCUIT AMPERAGE

Inverter	Circuit Sizes	Amperage
ouput	10	18.125
1.45	7	12.6875
1.43	6	10.875

Total **Amperage** <u>41.68</u>

**NEUTRAL GROUND** 

PV LEAD ELECTRICIAN

**(1)** 

**SITE FLOOD PLANE: ZONE X BFE: N/A** 

**LEGEND** 

NEW (E) **EXISTING NEW BY OTHERS** (0)

CAPE \* FEAR **SOLAR SYSTEMS** 910 S. 2nd St. Wilmington, NC 28401 910-409-5533 GC LIC. NO.: 65677 ELEC. LIC. NO.: U-33321 115 Mary Robertson St, Dunn, NC 28334 **WISDOM SOLAR PROJECT** 9.89 kW DC PV SYSTEM **DIAGRAM REVISION LIST**  $\triangle$ REV. DATE DESC. March 18, 2025

DRAWN BY:

Sheet No.

E-01

## **GENERAL ELECTRICAL NOTES**

- 1. Equipment shall be new unless otherwise noted.
- Equipment shall be listed unless otherwise noted.
- 3. Equipment shall be installed providing adequate working space in compliance with NEC.
- 4. Copper conductors shall be used and shall have insulation rating 600v, 90°C unless otherwise noted.
- 5. Conductors shall be sized in accordance with the NEC and ampacity shall be derated for temperature increase, conduit fill & voltage drop.
- 6. All conductors shall be installed in approved conduits. Conduits shall be adequately supported in accordance with the NEC.
- 7. AC Disconnect is optional, however it may be required by the utility.
- 8. Exposed non-current carrying metal parts shall be grounded in accordance with the NEC.
- 9. All work shall comply with the NEC and all applicable local electrical code requirements.
- 10. Contractor will provide labeling in accordance with the NEC, Article 110, 225, 690, and 705.

PV SYSTEM DISCONNECT/ COMBINER BOX **BREAKER PANELS** 





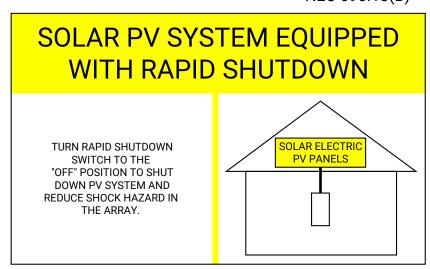
## **RAPID SHUTDOWN PV ARRAY**

NEC 110.27(C) & OSHA 1910.145(f)(7)

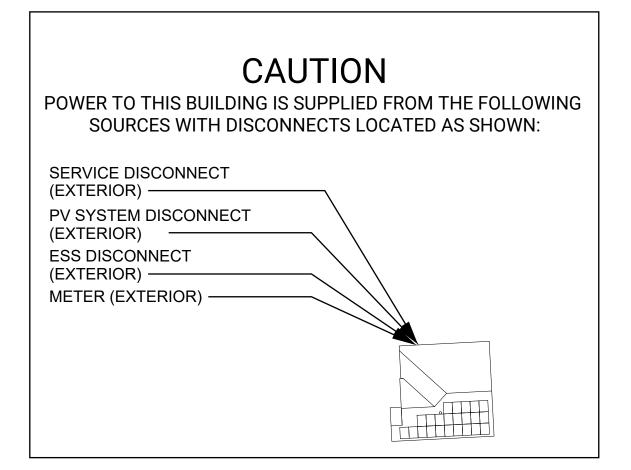
SERVICE DISCONNECT

## MAIN PHOTOVOLTAIC SYSTEM DISCONNECT

NEC 690.13(B)



IFC 605.11.3(1) & NEC 690.12(D)



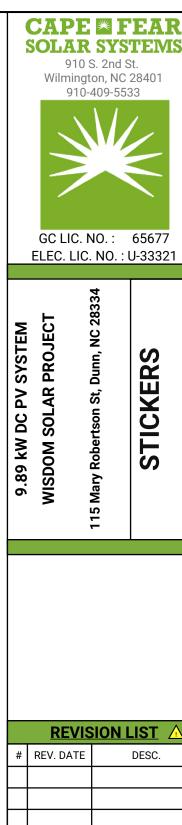
**NET METER w/ BATTERY** 



NEC 705.30(C) and NEC 690.59 ENERGY STORAGE SYSTEMS

**BATTERY** DISCONNECT

NEC 706.7(E)(2)



REVISION LIST A			
#	REV. DATE	DESC.	
	DATE:	March 18, 2025	

Sheet No.

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E-02

JPN