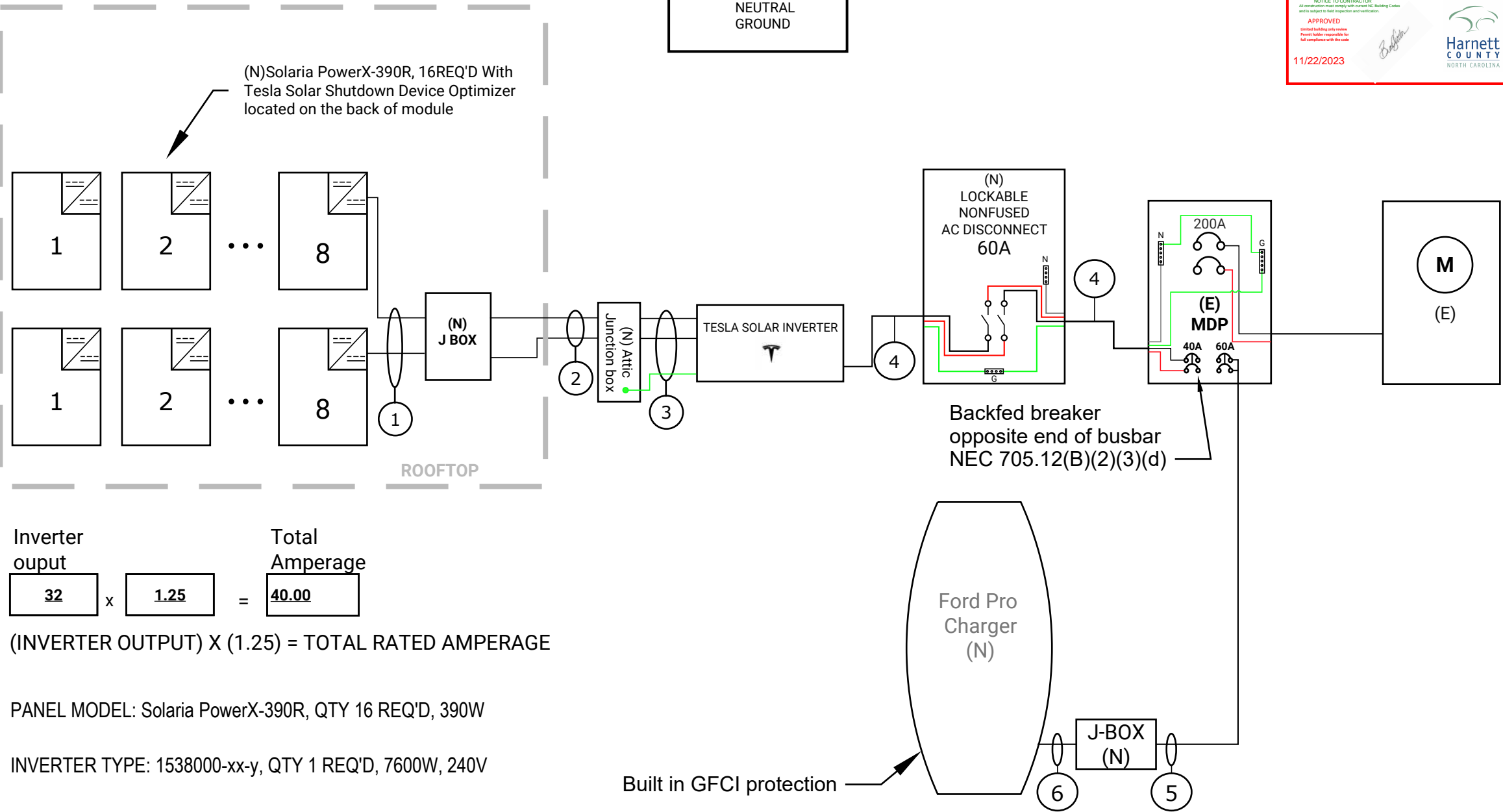


GENERAL ELECTRICAL NOTES

1. Equipment shall be new unless otherwise noted.
2. 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.

WIRING SCHEDULE					
TAG	CONDUIT SIZE	CONDUCTOR	NEUTRAL	GROUND	NOTES
1	NONE	#10 PV Wire	NONE	6 AWG	(Mfg. supplied cabling within array)
2	NONE	10/2 MC	NONE	10 AWG	J Box to Attic J Box
3	3/4" EMT	#10 THWN-2	NONE	10 AWG	Attic J box to Inverter
4	1" PVC or EQUIV	#8 THWN-2	#8 THWN-2	#10 THWN-2	Inverter to Disco to MDP
5	3/4" PVC or EQUIV	#6 THWN-2	#6 THWN-2	#10 AWG	Charger to J-Box
6	3/4" PVC or EQUIV	6/2 NM-B	NONE	#10 AWG	From J Box to MDP

LEGEND	
(N)	NEW
(E)	EXISTING
(O)	NEW BY OTHERS
	NEUTRAL
	GROUND



Inverter output \times Total Amperage =

$32 \times 1.25 = 40.00$

(INVERTER OUTPUT) X (1.25) = TOTAL RATED AMPERAGE

PANEL MODEL: Solaria PowerX-390R, QTY 16 REQ'D, 390W

INVERTER TYPE: 1538000-xx-y, QTY 1 REQ'D, 7600W, 240V

7.600 kW-AC/ 6.240 kW-DC



7.6KW PV SYSTEM
SHERIDAN RESIDENCE
99 Countryside Dr, Lillington, NC 27546
LINE DIAGRAM

REVISION LIST		
#	REV. DATE	DESC.

DATE: **November 15, 2023**
DRAWN BY: **JPN**

Sheet No.
E-01

SITE FLOOD PLANE:
ZONE X

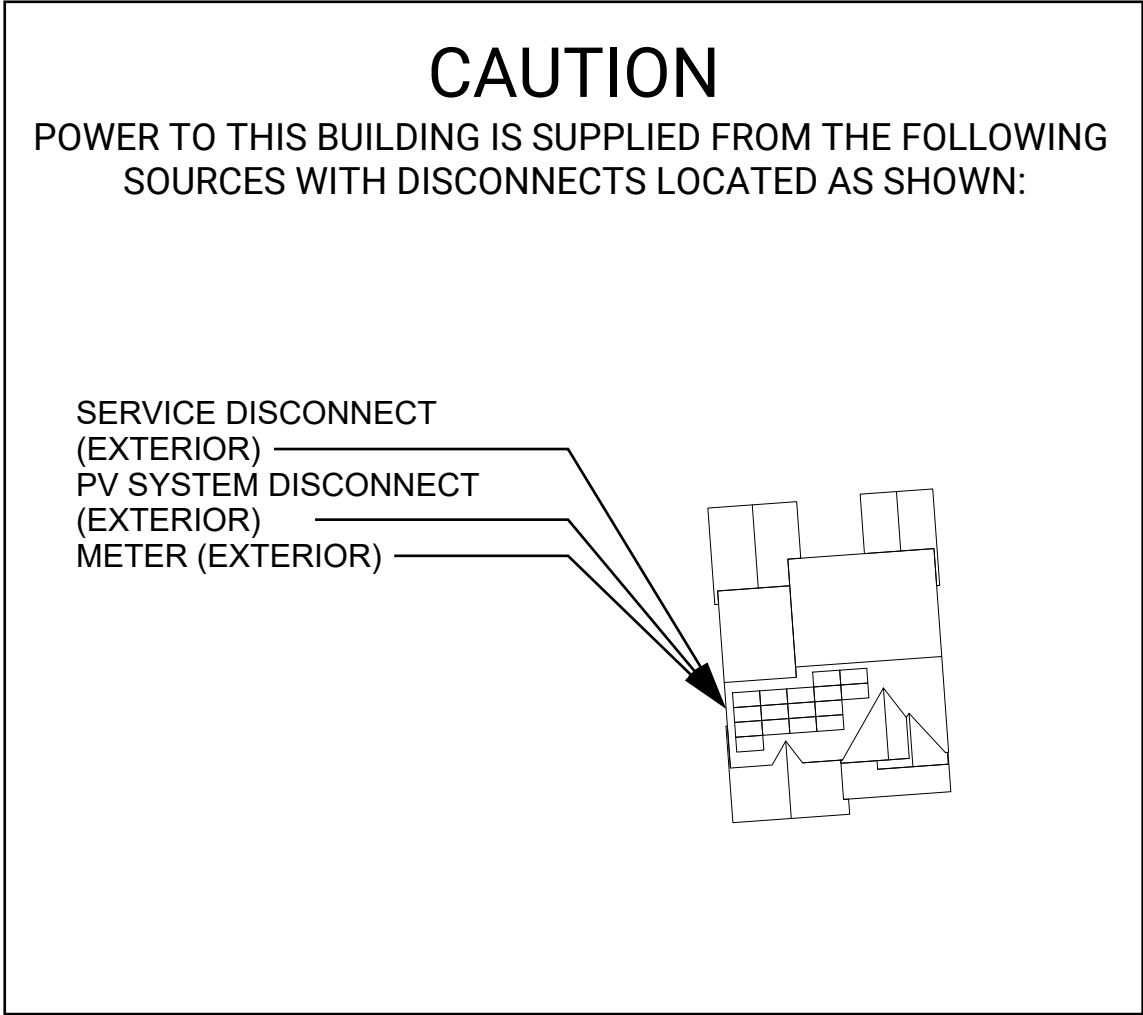
⚠ WARNING ⚠
 TURN OFF PHOTOVOLTAIC
 AC DISCONNECT PRIOR TO
 WORKING INSIDE PANEL

**PV SOLAR BEAKER
 DO NOT RELOCATE THIS
 OVERCURRENT DEVICE**
 705.12 (B)(2)(3)(b)
 Location: PV Breakers

**AC JUNCTION BOX FOR
 PHOTOVOLTAIC**

PHOTOVOLTAIC SYSTEM AC DISCONNECT
 RATED AC OPERATING CURRENT 40 AMPS AC
 AC NOMINAL OPERATING VOLTAGE 240 VAC

PHOTOVOLTAIC SYSTEM
 COMBINER PANEL
 DO NOT ADD LOADS



**7.6KW PV SYSTEM
 SHERIDAN RESIDENCE**
 99 Countryside Dr, Lillington, NC 27546

STICKERS

REVISION LIST ⚠

#	REV. DATE	DESC.

DATE: **November 15, 2023**
 DRAWN BY: **JPN**

Sheet No.
E-02

**SITE FLOOD PLANE:
 ZONE X**