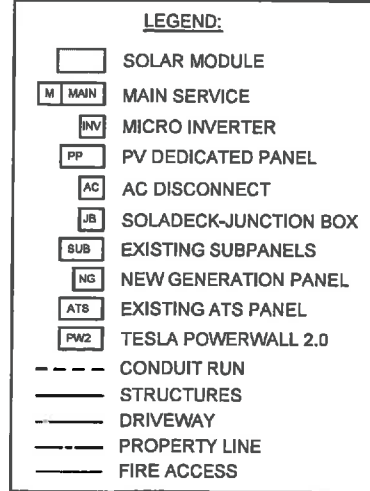
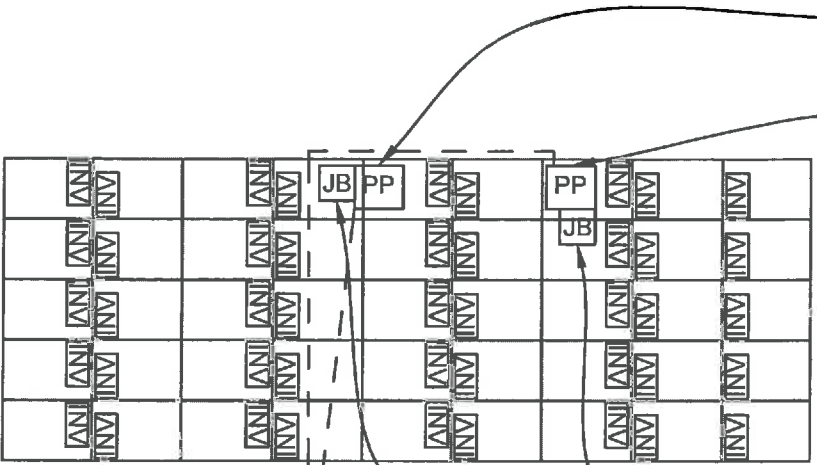


CONFORMING TO 2015 IRC WITH 2017 NY UNIFORM BUILDING CODE SUPPLEMENT & 2014 NEC



ARRAY PLAN DETAIL:  
SCALE: 3/32" = 1'-0"



PV DEDICATED PANEL #1 MOUNTED IN AN UPRIGHT VERTICAL POSITION VIA RACKING

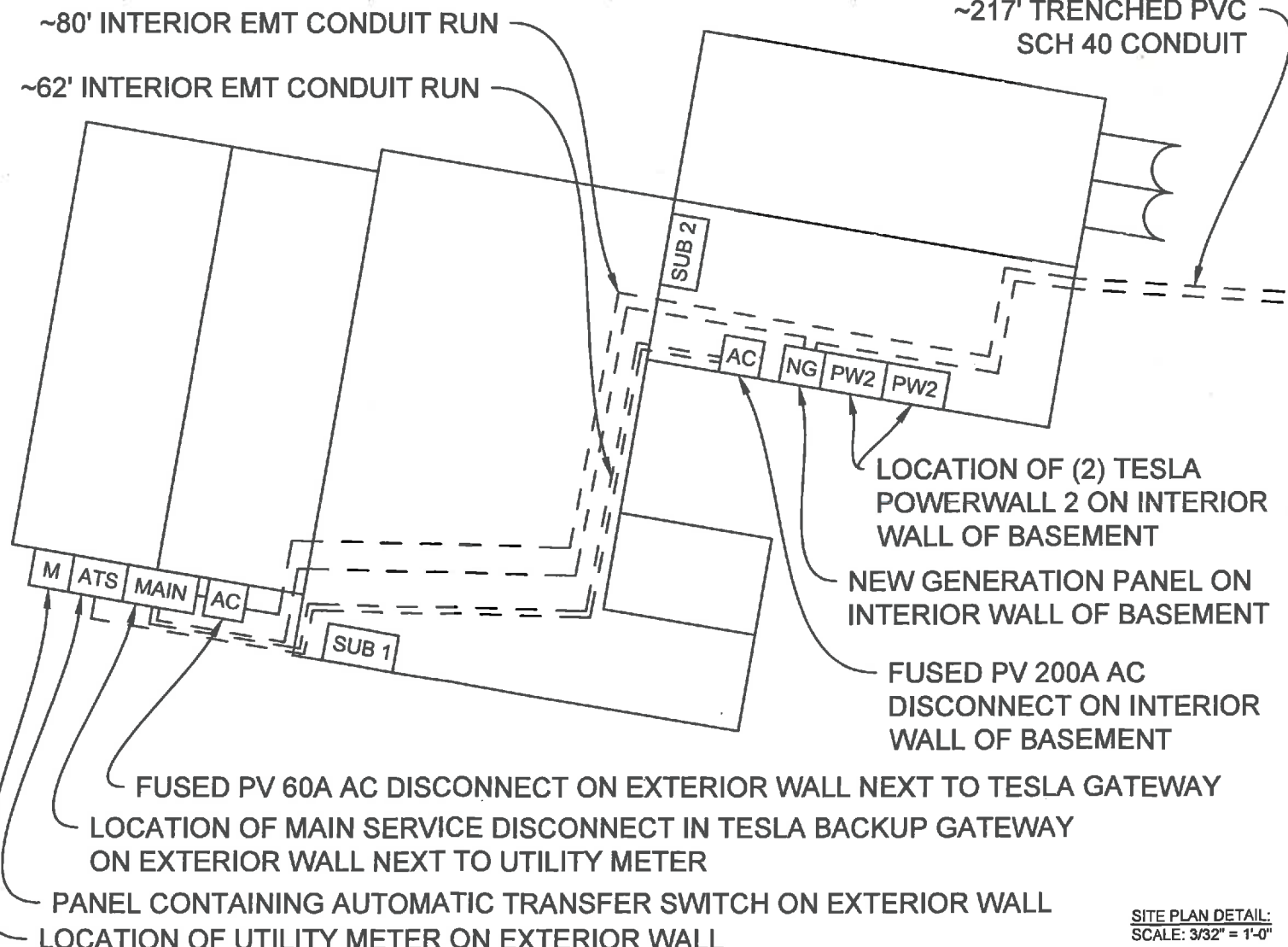
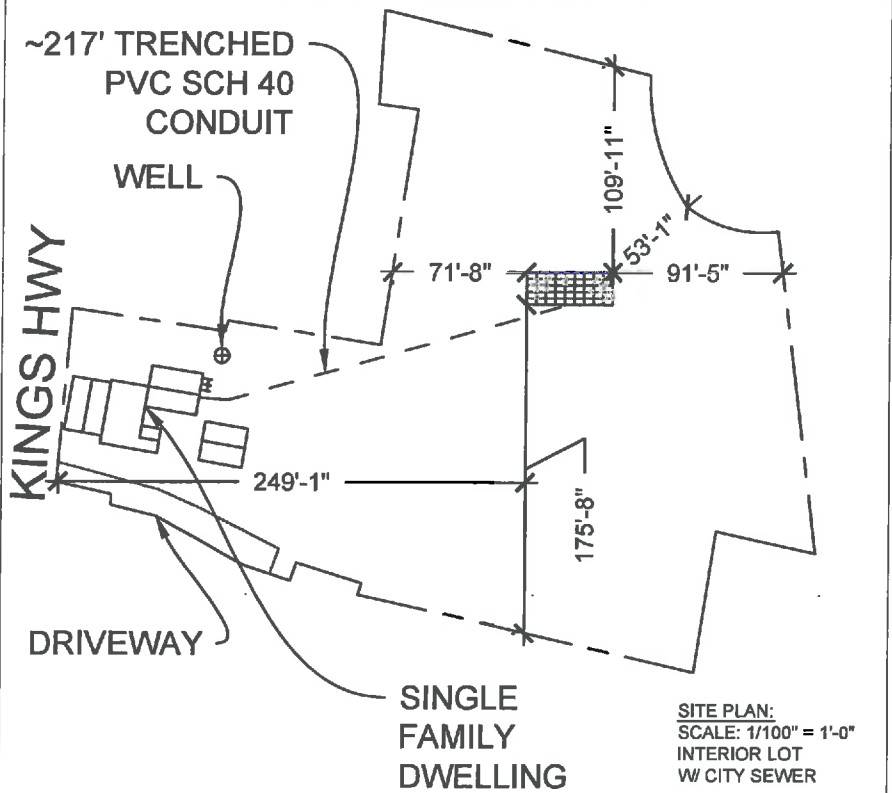
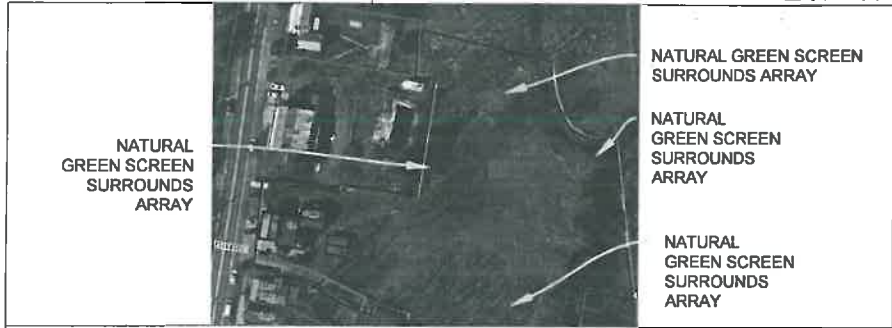
PV DEDICATED PANEL #2 MOUNTED IN AN UPRIGHT VERTICAL POSITION VIA RACKING

RACKING-MOUNTED JUNCTION BOX

NOTE:  
EXISTING SUBPANELS WILL NOT BE UTILIZED  
ATS PANEL G-N CONNECTION WILL BE REMOVED  
AND INSTEAD THE G-N WILL BE IN THE TESLA  
BACKUP GATEWAY WHICH CONTAINS THE MAIN  
DISCONNECT

**SOUTH**  
AZIMUTH 180° TN

~217' TRENCHED PVC SCH 40 CONDUIT



**NEW YORK STATE SOLAR FARM INC.**

871 STATE ROUTE 208  
GARDINER, NY 12525 USA  
PHONE: 1.877.SOLAR.95

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**SUNPOWER®**  
by  
New York State Solar Farm

**CUSTOMER:**  
Mary Endico-Fugett  
Robert Fugett  
RESIDENCE  
1386 Kings Hwy Sugar  
Loaf, NY 10981

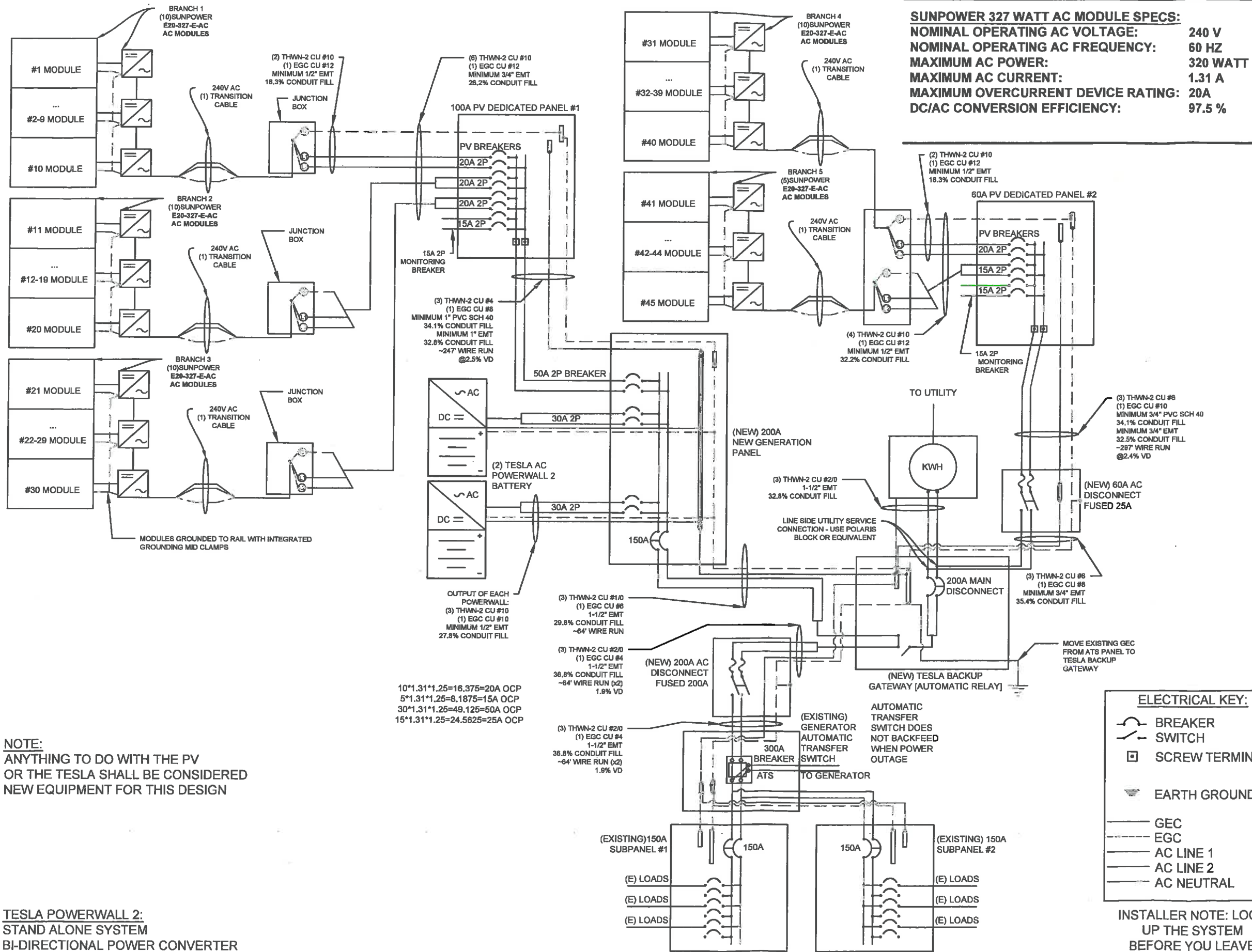
**PV SYSTEM CONFIGURATION:**  
PV SYSTEM SIZE: 14.4 kW AC  
PV SYSTEM SIZE: 14.715 kW DC  
PV MODULES:(45) SUNPOWER  
E20-327-E-AC  
MICRO INVERTER: (4 BRANCHES)  
BATTERY BACKUP:  
(2) TESLA POWERWALL 2  
MAX CONTINUOUS POWER: 10 kW AC

DRAWN BY: NYSOLAR-AS  
DATE: 3-21-2019  
REV: 1b  
INSTALLER CODE: 0

**SHEET #: PV1**  
SHEET TITLE: SITE PLAN  
1 OF 10 SHEETS  
SCALE: LISTED

SOLAR ARRAYS AND THEIR SYSTEM  
COMPONENTS SHALL BE INSTALLED  
IN CONJUNCTION WITH LOCAL  
CODES, 2017 NY UNIFORM BUILDING  
CODE SUPPLEMENT & 2014 NEC

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**INSTALLER NOTE: LOCK  
UP THE SYSTEM  
BEFORE YOU LEAVE**

NEC 690.5(c)  
PLACE THIS LABEL ON INVERTER(S) OR NEAR  
GROUND-FAULT INDICATOR (ON INVERTER(S) U.O.N.)

**WARNING**  
ELECTRIC SHOCK HAZARD  
IF A GROUND FAULT IS INDICATED,  
NORMALLY GROUNDED CONDUCTORS  
MAY BE UNGROUNDED AND  
ENERGIZED

NEC 690.17  
PLACE THIS LABEL ON ALL DISCONNECTING  
MEANS WHERE ENERGIZED IN AN OPEN POSITION

**WARNING**  
ELECTRIC SHOCK HAZARD  
DO NOT TOUCH TERMINALS  
TERMINALS ON BOTH THE  
LINE AND LOAD SIDE MAY  
BE ENERGIZED IN THE  
OPEN POSITION

NEC 705.12(D)(7)  
PLACE THIS LABEL AT P.O.C. TO SERVICE  
DISTRIBUTION EQUIPMENT (I.E. MAIN PANEL (AND  
SUBPANEL IF APPLICABLE))

**WARNING**  
INVERTER OUTPUT CONNECTION  
DO NOT RELOCATE THIS  
OVERCURRENT DEVICE

NEC 690.31 (E) 3 & 4  
PLACE ON ALL JUNCTION BOXES EXPOSED  
RACEWAYS EVERY 10'

**PHOTOVOLTAIC  
POWER SOURCE**

NEC 690.54  
PLACE THIS LABEL AT "INTERACTIVE POINT OF  
INTERCONNECTION" (AT MAIN SERVICE PANEL AND  
SUBPANEL IF APPLICABLE)

INTERACTIVE PHOTOVOLTAIC POWER SOURCE  
RATED AC OUTPUT CURRENT (A): 58.95 A  
NOMINAL OPERATING AC VOLTAGE (V): 240 V

NEC 690.52  
PLACE THIS LABEL ON SERVICE DISTRIBUTION EQUIPMENT

SUNPOWER 327 WATT AC MODULE SPECS:  
NOMINAL OPERATING AC VOLTAGE: 240 V  
NOMINAL OPERATING AC FREQUENCY: 60 HZ  
MAXIMUM AC POWER: 320 WATT  
MAXIMUM AC CURRENT: 1.31 A  
MAXIMUM OVERCURRENT DEVICE RATING: 20A  
DC/AC CONVERSION EFFICIENCY: 97.5 %

NEC 705.12(D)(4)  
PLACE THIS LABEL ON ALL EQUIPMENT CONTAINING  
OVERCURRENT DEVICES IN CIRCUITS SUPPLYING  
POWER TO A BUSBAR OR CONDUCTORS SUPPLIED  
FROM MULTIPLE SOURCES.

**CAUTION**  
CONTAINS MULTIPLE POWER  
SOURCES

NEC 690.35(F)  
PLACE THIS LABEL AT EACH JUNCTION BOX, COMBINER  
BOX, INVERTER AND DEVICE WHERE ENERGIZED,  
UNGROUNDING CIRCUITS MAY BE EXPOSED DURING  
SERVICE.

**WARNING**  
ELECTRIC SHOCK HAZARD  
THE DC CONDUCTORS OF THIS  
PHOTOVOLTAIC SYSTEM ARE UNGROUNDED  
AND MAY BE ENERGIZED

RAPID SHUTDOWN:

**PHOTOVOLTAIC SYSTEM  
EQUIPPED WITH  
RAPID SHUTDOWN**

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**CUSTOMER:**  
Mary Endico-Fugett  
Robert Fugett  
RESIDENCE  
1386 Kings Hwy  
Sugar Loaf, NY 10981

PV SYSTEM CONFIGURATION:  
PV SYSTEM SIZE: 14.4 kW AC  
PV SYSTEM SIZE: 14.715 kW DC  
PV MODULES:(45) SUNPOWER  
E20-327-E-AC  
MICRO INVERTER: (4 BRANCHES)  
BATTERY BACKUP:  
(2) TESLA POWERWALL 2  
MAX CONTINUOUS POWER: 10 kW AC

DRAWN BY: NYSOLAR-AS  
DATE: 3-21-2019  
REV: 1b  
INSTALLER CODE: 0

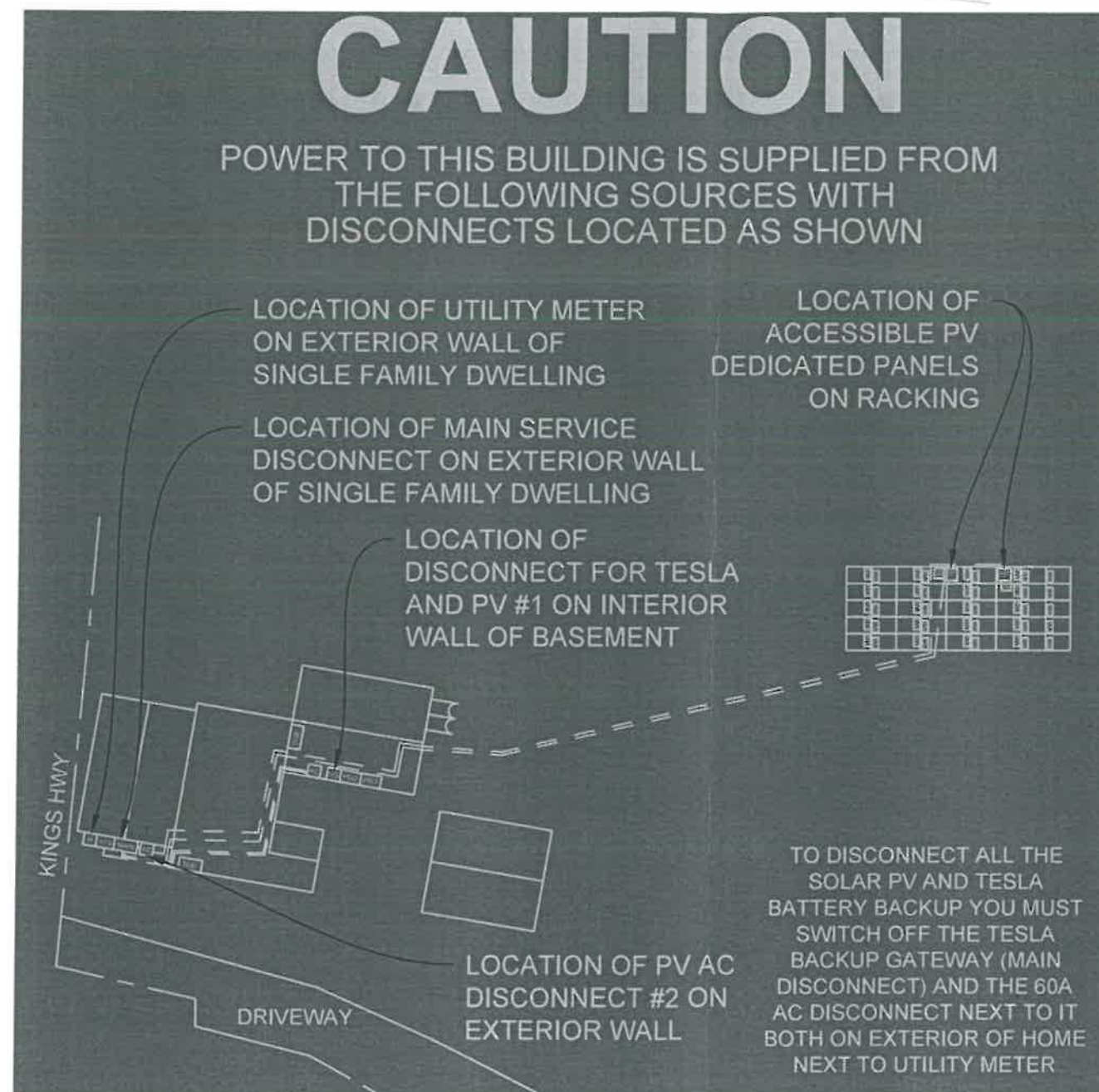
**SHEET #: PV3**

SHEET TITLE: LABELS  
3 OF 10 SHEETS  
SCALE: N/A

SOLAR ARRAYS AND THEIR SYSTEM  
COMPONENTS SHALL BE INSTALLED  
IN CONJUNCTION WITH LOCAL  
CODES, 2017 NY UNIFORM BUILDING  
CODE SUPPLEMENT & 2014 NEC



NEC 690.14(D)(4) LINKS TO 705.10 DIRECTORY  
A permanent plaque or directory denoting all electric power sources on or in the premises must be installed at each service equipment location and all interconnected electric power production sources.



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**PV SYSTEM CONFIGURATION:**

PV SYSTEM SIZE: 14.4 kW AC

PV SYSTEM SIZE: 14.715 kW DC

PV MODULES: (45) SUNPOWER

E20-327-E-AC

MICRO INVERTER: (4 BRANCHES)

BATTERY BACKUP:

(2) TESLA POWERWALL 2

MAX CONTINUOUS POWER: 10 kW AC

DRAWN BY: NYSOLAR-AS

DATE: 3-21-2019

REV: 1b

INSTALLER CODE: 0

**SHEET #: PV4**

SHEET TITLE: LABELS

4 OF 10 SHEETS

SCALE: N/A

SOLAR ARRAYS AND THEIR SYSTEM COMPONENTS SHALL BE INSTALLED IN CONJUNCTION WITH LOCAL CODES, 2017 NY UNIFORM BUILDING CODE SUPPLEMENT & 2014 NEC