

PONDER RESIDENCE

734 SW MAPLETON ST

FORT WHITE, FL 32038

7.00 KW DC
ROOF MOUNTED PHOTOVOLTAIC SYSTEM

13.5 kWh
ENERGY STORAGE SYSTEM

PHOTOVOLTAIC SYSTEM DETAILS

- MODULES = HANWHA Q.PEAK DUO BLK-G8 350W (20 PCS)
- INVERTER = SOLAREEDGE SE7600H-US (1 PCS)
- RACKING SYSTEM = IRONRIDGE XRI00 W/ S-5!
- DATA ACQUISITION = SOLAREEDGE ZIGBEE GATEWAY

AUTHORITY HAVING JURISDICTION

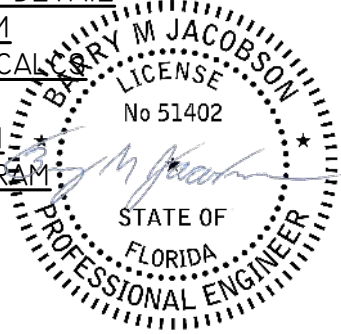
- BUILDING AUTHORITY = COLUMBIA
- CODE REFERENCE = 2017 NEC & 2020 IBC
- ELECTRICAL UTILITY COMPANY = CLAY ELECTRIC

DESIGN CRITERIA

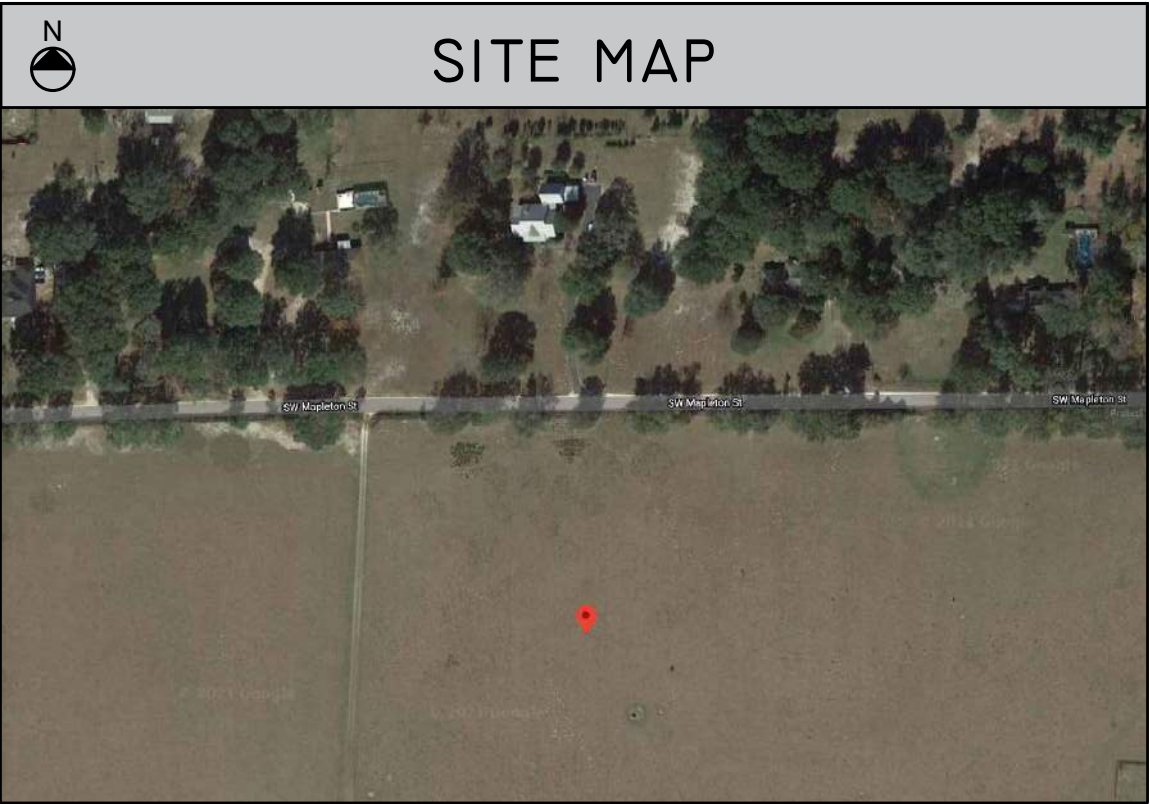
- DESIGN WIND LOAD = 130 MPH
- DESIGN ROOF SNOW LOAD = 0 PSF
- EXPOSURE CATEGORY = C
- HIGH TEMP (ASHRAE 2% HIGH) = 34°C
- LOW TEMP (ASHRAE EXTREME LOW) = -5°C
- ROOF TYPE = METAL

SHEET INDEX

PV-G.0	COVER PAGE
PV-A.1	ARRAY LAYOUT
PV-A.2	ATTACHMENT DETAIL
PV-E.1	LINE DIAGRAM
PV-E.2	ELECTRICAL CALCULATIONS
PV-P.1	PLACARDS
PV-N.1	SAFETY PLAN
PV-N.2	STRING DIAGRAM



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SOLARIMPACT.COM P 352.351.8221



6707 WINCHESTER CIRCLE, BOULDER, CO 80501
WWW.NAMASTESOLAR.COM P 303.447.0300

CONTRACTOR

DESIGNER

PONDER RESIDENCE
734 SW MAPLETON ST
FORT WHITE, FL 32038

SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 7.00kW DC
• 20 HANWHA Q.PEAK DUO BLK-G8 350W MODULES
• 1 SOLAREEDGE SE7600H-US INVERTER
• 1 TESLA POWERWALL 2 BATTERY
CONTACT: BRIAN LEVERETTE
• BRIAN.LEVERETTE@SOLARIMPACT.COM
• 352.727.0022

DESIGNER: TORRIN GLICK

COVER
PAGE
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PV-G.0

ROOF CONSTRUCTION

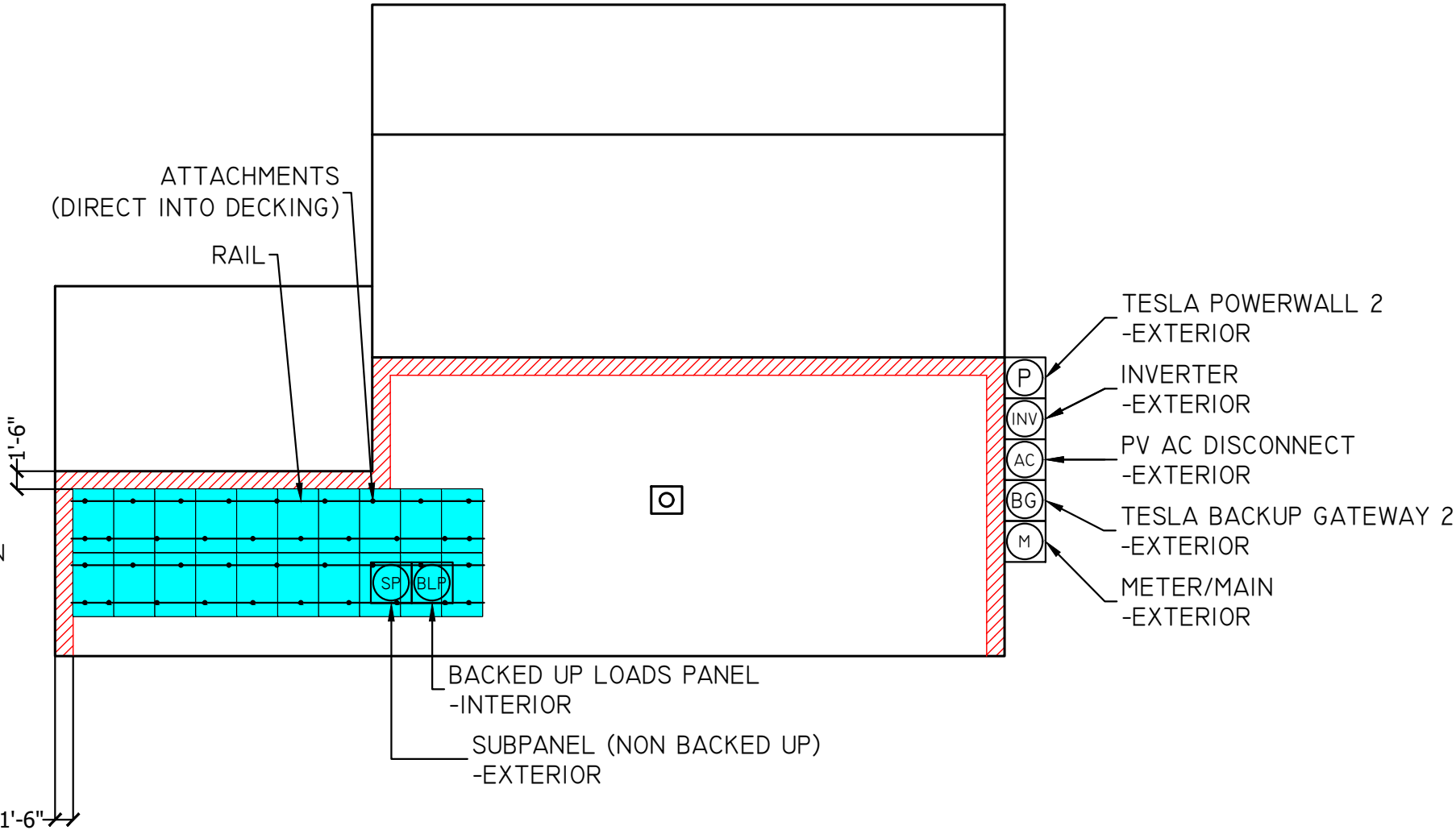
- ROOF TYPE = METAL
- PV ARRAY AREA = 386 SQUARE FEET
- TOTAL ROOF AREA = 3678 SQUARE FEET
- PERCENTAGE OF ROOF W/ PV = 10.5%
- MAX ATTACHMENT SPAN/CANTILEVER =
SEE WINDLOAD REPORT FOR ATTACHMENT
DETAILS

FIRE SETBACKS

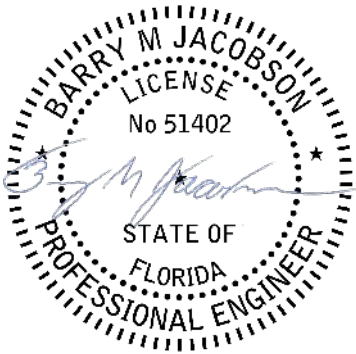
- 18" FROM RIDGE AND GABLE ENDS, 18"
FROM HIPS AND VALLEYS

STRUCTURAL NOTES

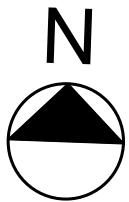
1. THIS DOCUMENT REPRESENTS THE
FINISHED STRUCTURE. IT DOES NOT
INDICATE THE METHOD OR SEQUENCE OF
CONSTRUCTION. THE CONTRACTOR SHALL
BE RESPONSIBLE FOR AND PROVIDE ALL
MEASURES NECESSARY TO PROTECT THE
STRUCTURE DURING CONSTRUCTION.
2. ALL DETAILS SHALL BE INCORPORATED
INTO THE PROJECT AT ALL APPROPRIATE
LOCATIONS, WHETHER SPECIFICALLY
CALLED OUT OR NOT. TYPICAL DETAILS
MAY NOT NECESSARILY BE CALLED OUT ON
PLANS, BUT APPLY UNLESS NOTED
OTHERWISE.



ARRAY INFORMATION	
MOD QTY	20
TILT	24°
AZIMUTH	178°



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FORT WORTH, TX 76116
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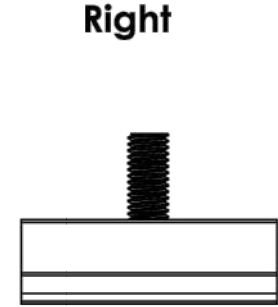
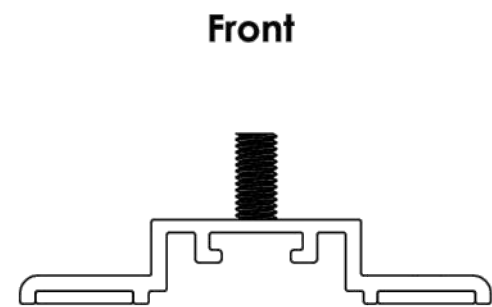
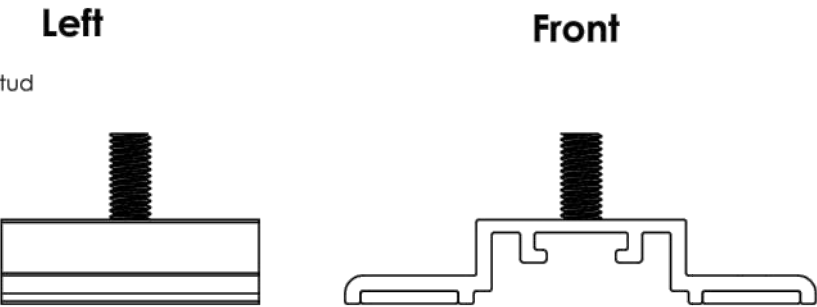
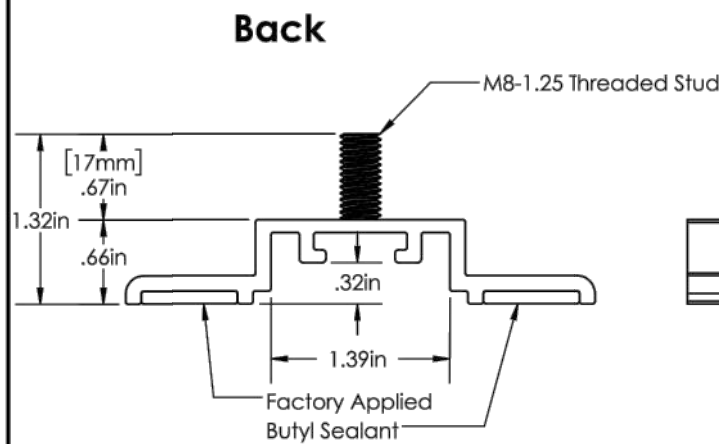
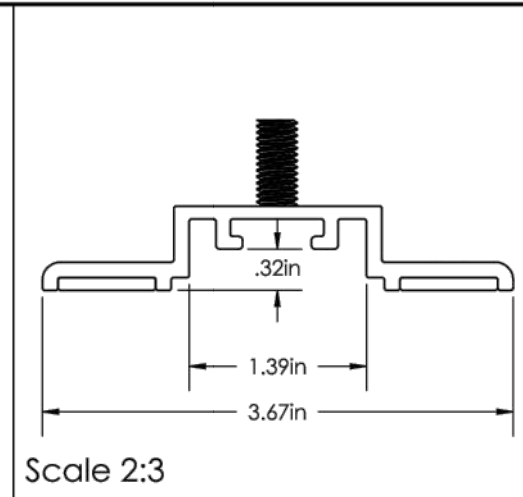
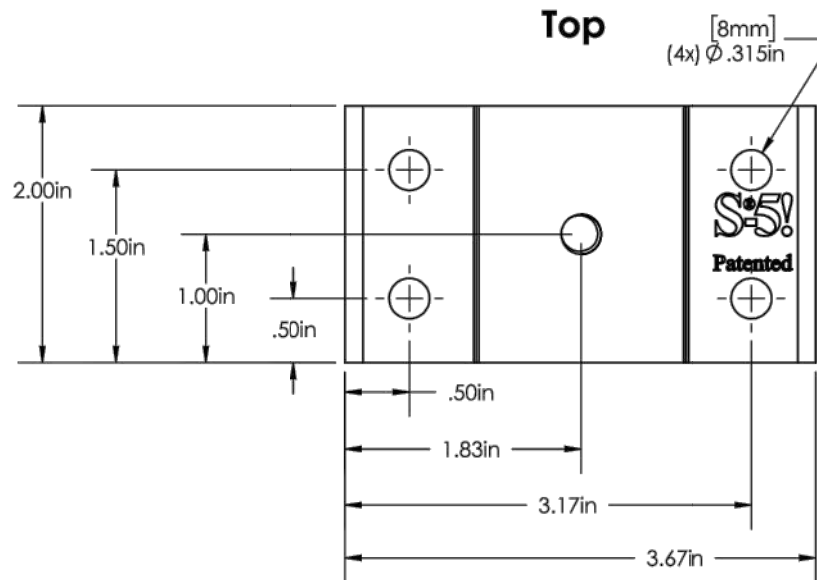
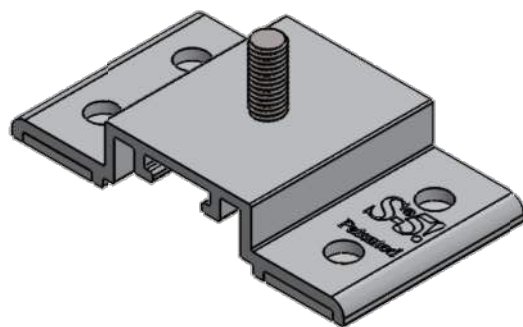
SOLAR INDIVIDUAL PERMIT PACKAGE

SYSTEM DETAILS: 7.00kW DC
• 20 HANWHA Q-PEAK DUO BLK-G8 350W MODULES
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• 1 TESLA POWERWALL 2 BATTERY
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ARRAY
LAYOUT
NOT TO SCALE
PV-A.1

SolarFoot

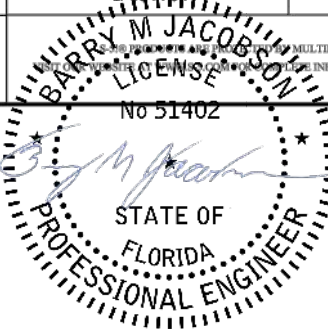


General Notes:

1. SolarFoot
2. M8-1.25 Stainless Steel Hex Flange Nut (13mm Socket)
3. Metal to Metal: 1/4-14 Self Drilling Screw 1-1/2" to 2-1/2"
Metal to Wood: 1/4-14 Type 17 AB Milled Point 1-1/2" to 2-1/2"
4. Example roof

FOR STANDING SEAM SPECIFIC MECHANICAL LOAD TEST
INFORMATION AND CLAMP INSTALLATION INFORMATION
PLEASE VISIT: WWW.S-5.COM

MATERIAL: 6005A T61 Al			METAL ROOF INNOVATIONS, LTD. 8655 TABLE BUTTE RD COLORADO SPRINGS, CO 80908 719-495-0518 719-495-0045(FAX)	
EST ASSEMBLY WEIGHT: 0.248 lbs				
SUPPLIED HARDWARE: MB-1.25 Hex Range Nut	TITLE SolarFoot [CCD]			
SCALE: 2:3	DRAWING NO. LP64-A1-A	DRAWN BY Paul Leitch	DATE 09/20/2017	
EST. WEIGHT: Bracket: 0.129 lbs Fastener: 0.026 lbs Nut: 0.015 lbs	This item has been electronically signed and sealed by Barry M Jacobson on the date adjacent to the seal using a SHA authentication code. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies. 2021.07.17 12:58:59 -04'00'			



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GAINESVILLE FL 32606
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6707 WINCHESTER CIRCLE, BOULDER, CO 80301
888 FEDERAL BLVD, DENVER, CO 80202
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ATTACHMENT
DETAILS
NOT TO SCALE
PV-A.2

EQUIPMENT SCHEDULE

KEY	QTY	MAKE	MODEL	LOCATION	NOTES
I	20	HANWHA	Q.PEAK DUO BLK-G8	FLUSH MOUNTED TO ROOF	(N) PV MODULE
2	20	SOLAREEDGE	P400	MOUNTED ON RACKING	(N) POWER OPTIMIZER
3	I	TBD	JUNCTION BOX	UNDERNEATH ARRAY	(N) PV ROOF JUNCTION BOX, NEMA 4X
4	I	SOLAREEDGE	SE7600H-US	EXTERIOR	(N) DC DISCONNECT INTEGRATED INVERTER
5	I	SQUARE D	DU222RB	EXTERIOR	(N) PV AC DISCONNECT, NEMA 3R, 60A, 240V
6	I	TESLA	POWERWALL 2	EXTERIOR	(N) TESLA POWERWALL BATTERY, 240V
7	I	TESLA	BACKUP GATEWAY 2	EXTERIOR	(N) TESLA BACKUP GATEWAY 2, 200A MLO, 240V I X 40A/2P PV BREAKER, I X 30A/2P BATTERY BREAKER
8	I	SQUARE D	TBD	INTERIOR	(E) BACKED UP LOADS PANEL, 200A BUS, (E) 200A MAIN, 240V
9	I	TBD	TBD	EXTERIOR	(N) SUBPANEL (NON BACKED UP), I25A BUS, I25A MAIN, 240V IX50A/2P AND 2X 30A/2P BREAKERS
10	I	SIEMENS	TBD	EXTERIOR	(E) MAIN SERVICE DISCONNECT, 200A, 240V
II	I	TBD	TBD	EXTERIOR	(E) UTILITY METER, 200A, 240V

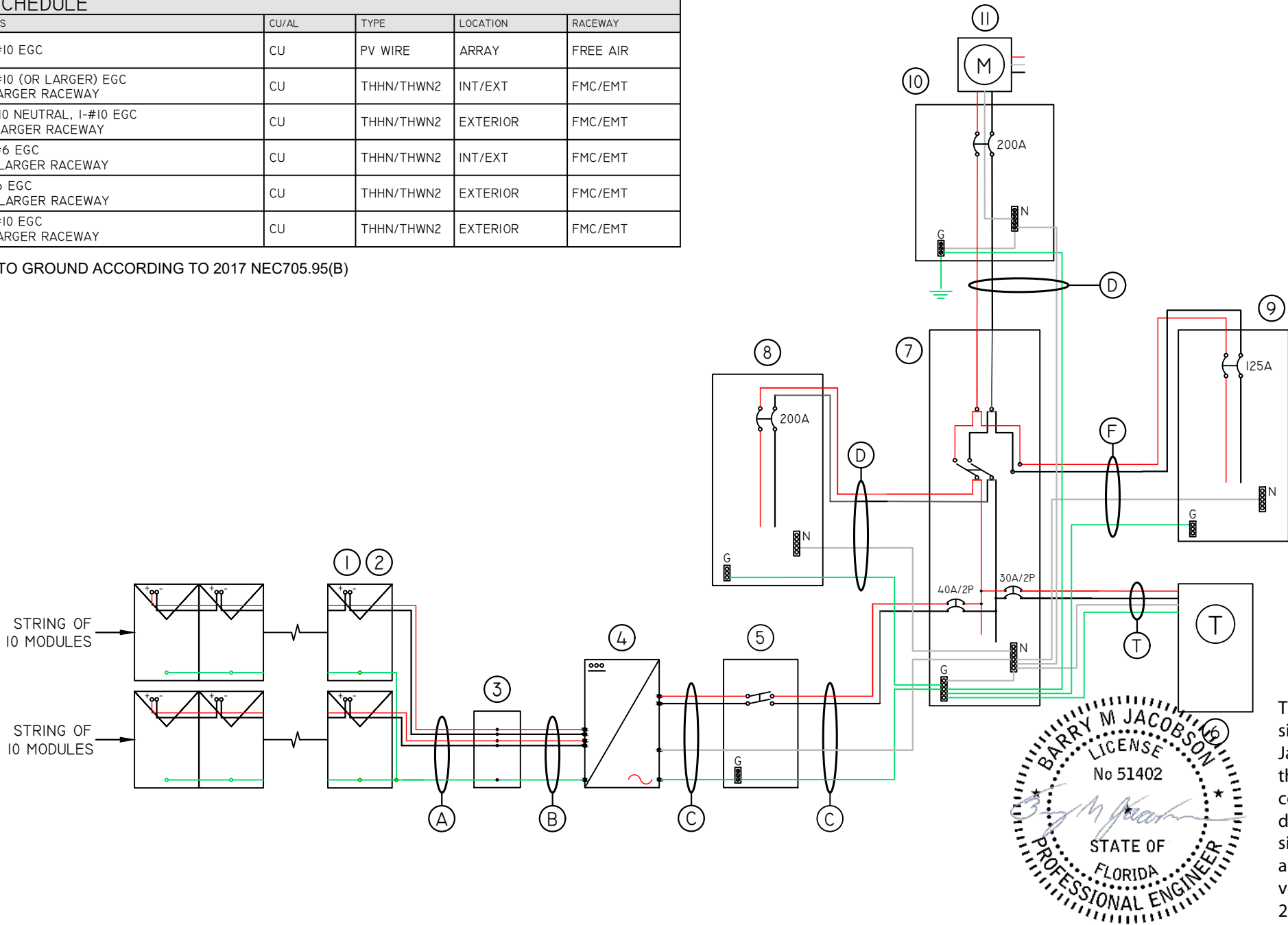
- GENERAL
1. PLACARDING AS REQUIRED PER 690.13, .15, .31, .51, .52, .53, .54, .56, 705.10, 705.12
 2. PLACARD AT METER INDICATING "PHOTOVOLTAIC SYSTEM CONNECTED"
 3. SERVICE DISCONNECTS SHALL BE GROUPED AND/OR MARKED WITH LOCATION DESCRIPTION(S)
 4. GEC SHALL BE CONTINUOUS PER 250.64(C)
 5. RACKING CONTAINS INTEGRATED BONDING
 6. MINIMUM WIRE SIZES BASED ON A TOTAL SYSTEM VOLTAGE DROP OF LESS THAN 2%

PV INTERCONNECTION: BREAKER IN TESLA BACKUP GATEWAY 2

CONDUCTOR SCHEDULE

KEY	CONDUCTORS	CU/AL	TYPE	LOCATION	RACEWAY
A	4-#10, I-#10 EGC	CU	PV WIRE	ARRAY	FREE AIR
B	4-#10, I-#10 (OR LARGER) EGC 1/2" OR LARGER RACEWAY	CU	THHN/THWN2	INT/EXT	FMC/EMT
C*	2-#8, I-#10 NEUTRAL, I-#10 EGC 3/4" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	FMC/EMT
D	3-3/0, I-#6 EGC I-1/2" OR LARGER RACEWAY	CU	THHN/THWN2	INT/EXT	FMC/EMT
F	3-#1, I-#6 EGC I-1/4" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	FMC/EMT
T	3-#10, I-#10 EGC 1/2" OR LARGER RACEWAY	CU	THHN/THWN2	EXTERIOR	FMC/EMT

*NEUTRAL SIZED TO GROUND ACCORDING TO 2017 NEC705.95(B)



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FORT WORTH, TEXAS 76104
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6707 MANHATTAN AVE, SUITE 100
FORT WORTH, TEXAS 76104
WWW.NAMASTESOLAR.COM • 353.447.0300

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DESIGNER: TORRIN GLICK

LINE
DIAGRAM
NOT TO SCALE
PV-E.I

MODULE SPECS & CALCULATIONS			
ITEM	NOTE / CALC	UNIT	DETAIL
LOCATION			FORT WHITE, FL 32038
TEMP, AMBIENT HIGH (Tmax)	ASHRAE 2%	°C	34
TEMP, AMBIENT LOW (Tmin)	ASHRAE EXTR. MIN	°C	-5
TEMP, MODULE TEST (Ttest)	MODULE SPEC	°C	25
TEMP, DELTA LOW (Tdelta)	Tmin - Ttest	°C	-30
MODULE MANUFACTURER	MODULE SPEC		HANWHA
MODULE PART NUMBER	MODULE SPEC		Q.PEAK DUO BLK-G8
MODULE POWER STC (P)	MODULE SPEC	WATTS (W)	350
MODULE OPERATING VOLTAGE (Vmp)	MODULE SPEC	VOLTS (V)	34.97
MODULE OPEN-CIRCUIT VOLTAGE (Voc)	MODULE SPEC	VOLTS (V)	41.21
MODULE COEFFICIENT, VOLT/TEMP (COEFF)	MODULE SPEC	(%/°C) / 100	-0.0027
MODULE OPERATING CURRENT (Imp)	MODULE SPEC	AMPS (A)	10.01
MODULE SHORT-CIRCUIT CURRENT (Isc)	MODULE SPEC	AMPS (A)	10.51
MODULE MAX VOLTAGE (Vmaxmod)	(Voc + Voc(Td*COEFF))	VOLTS (dc)	44.55
MODULE MAX CURRENT (Imax)	(Isc * 1.25)	AMPS (dc)	13.14
MIN AMPACITY REQ'D, PER NEC	(Imax * 1.25)	AMPS (dc)	16.42

INVERTER SPECS & CALCULATIONS			
ITEM	NOTE / CALC	UNIT	DETAIL
INVERTER MAKE	INVERTER SPEC		SOLAREDGE
INVERTER MODEL	INVERTER SPEC		SE7600H-US
INVERTER MAX POWER, (Wac MAX)	INVERTER SPEC	WATTS (ac)	7600
INVERTER INPUT V, (Vdc MAX)	INVERTER SPEC	VOLTS (dc)	480
INVERTER OUTPUT V, (Vac NOM)	INVERTER SPEC	VOLTS (ac)	240
INVERTER OUTPUT FREQUENCY	INVERTER SPEC	HERTZ	60
INVERTER OUTPUT CURRENT, (Iac)	INVERTER SPEC	AMPS (ac)	32
DC OPTIMIZED INPUT VOLTAGE	VoPT	VOLTS (dc)	400
INVERTER PHASE	INVERTER SPEC	PHASE	1
COMPLIANCE	INVERTER SPEC		UL1741/IEEE1547
INVERTER GROUNDING	INVERTER SPEC		UNGROUND
INVERTER QTY	INVqTY	QTY	1
MODULE QTY PER BRANCH CIRCUIT	MODqTY	QTY	10
MAX INPUT CURRENT PER STRING (IMAXdc)	(MODqTY*Wdc)/VoPT	AMPS (dc)	8.75
MAX OUTPUT CURRENT (IMAXac)	(Iac*1.25)	AMPS (ac)	40.00

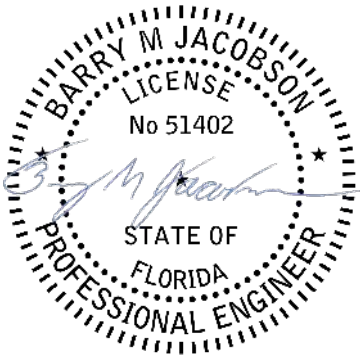
POWER OPTIMIZER SPECS			
ITEM	NOTE / CALC	UNIT	DETAIL
POWER OPTIMIZER MAKE	OPTIMIZER SPEC		SOLAREDGE
POWER OPTIMIZER MODEL	OPTIMIZER SPEC		P400
MAX INPUT POWER, (Wdc MAX)	OPTIMIZER SPEC	WATTS (dc)	400
MIN INPUT VOLTAGE, (Vdc MIN)	OPTIMIZER SPEC	VOLTS (dc)	8
MAX INPUT VOLTAGE, (Vdc MAX)	OPTIMIZER SPEC	VOLTS (dc)	80
MAX SHORT-CIRCUIT CURRENT (ISC)	OPTIMIZER SPEC	AMPS (dc)	10
MAX OUTPUT CURRENT	OPTIMIZER SPEC	AMPS (dc)	15

OPTIMIZER EXTREME OPERATING CONDITIONS			
PARAMETER	UNIT	CALCULATED	LIMIT
MAX INPUT POWER	WATTS (W)	350	400
MIN INPUT VOLTAGE	VOLTS (V)	34.97	8
MAX INPUT VOLTAGE	VOLTS (V)	44.55	80
MAX SHORT-CIRCUIT CURRENT (Isc)	AMPS (A)	10.51	10
MAX OUTPUT CURRENT	AMPS (A)	8.75	15
MAX OUTPUT VOLTAGE	VOLTS (V)	60*	
*OPTIMIZER OUTPUT VOLTAGE RANGE BETWEEN 5-60 VDC - STRING VOLTAGE IS REGULATED BY THE INVERTER (NOT TO EXCEED 480VDC)			
NOTE: CALCULATED VALUES ARE THE ABSOLUTE MIN/MAX OF ALL ARRAYS USING THIS POWER OPTIMIZER CONFIGURATION -MAXIMUM STRING VOLTAGE IS 480VDC (INVERTER REGULATED)			

TESLA POWERWALL 2 PERFORMANCE SPECIFICATIONS			
ITEM	NOTE / CALC	UNIT	DETAIL
BATTERY MAKE	BATTERY SPEC		TESLA
BATTERY MODEL	BATTERY SPEC		POWERWALL 2
GRID INTEGRATION	BATTERY SPEC		AC COUPLED
AC VOLTAGE (NOMINAL)	BATTERY SPEC	VOLTS (ac)	240
TOTAL ENERGY	BATTERY SPEC	kWh (ac)	14
USABLE ENERGY	BATTERY SPEC	kWh (ac)	13.5
REAL POWER, MAX CONTINUOUS	BATTERY SPEC	kW (ac)	5
REAL POWER, PEAK (10s, OFF-GRID/BACKUP)	BATTERY SPEC	kW (ac)	7
APPARENT POWER, MAX CONTINUOUS	BATTERY SPEC	kVA (ac)	5.8
APPARENT POWER, PEAK (10s, OFF-GRID/BACKUP)	BATTERY SPEC	kVA (ac)	7.2
MAX SUPPLY FAULT CURRENT	BATTERY SPEC	KA (ac)	10
MAX OUTPUT FAULT CURRENT	BATTERY SPEC	AMPS (ac)	32
OVERCURRENT PROTECTION DEVICE	BATTERY SPEC	AMPS (ac)	30
INTERNAL BATTERY DC VOLTAGE	BATTERY SPEC	VOLTS (dc)	50

CONDUCTOR SIZING CALCULATIONS										
KEY	SIZE	CU/AL	INSULATION	CALC. TYPE	AMPACITY (A) W/O DERATES	TEMP. DERATE	FILL DERATE	RESULT (A)	REQ'D (A)	OCPD
A	#10	CU	PV WIRE	COU	40	0.96	0.80	30.72	15.00	
				TERM	35			35	18.75	
B	#10	CU	THHN/THWN2	COU	40	0.96	0.80	30.72	15.00	
				TERM	35			35	18.75	
C	#8	CU	THHN/THWN2	COU	55	0.96	1.00	52.80	32.00	
				TERM	50			50	40.00	40A
D	3/0	CU	THHN/THWN2	COU	225	0.96	1.00	216.00	NA	
				TERM	200			200	200.00	200A
F	#1	CU	THHN/THWN2	COU	145	0.96	1.00	139.20	NA	
				TERM	130			130	125.00	125A
T	#10	CU	THHN/THWN2	COU	40	0.96	1.00	38.40	NA	
				TERM	35			35	30.00	30A
1) CONDITION OF USE (COU): (AMPACITY * TEMP. DERATE * FILL DERATE) <u>VS.</u> REQ'D (IMAX) 2) TERMINALS (TERM): AMPACITY AT TERMINALS. <u>VS.</u> REQ'D, (IMAX * 1.25)										
NOTE: ALL WIRES SIZED #10 OR LESS ARE IN COMPLIANCE WITH 240.4(D)										

STRING CONFIGURATION			
STRINGS	QTY	MODULES	OPTIMIZERS
STRING 1	10	Q.PEAK DUO BLK-G8	SOLAREDGE - P400
STRING 2	10	Q.PEAK DUO BLK-G8	SOLAREDGE - P400



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6707 WINCHESTER CIRCLE, BOULDER, CO 80301
5881 FEDERAL BLVD, DENVER, CO 80202
WWW.NAMASTESOLAR.COM • 303.147.1000

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CALCS
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1 PLACARDS LOCATED ON MAINS PANEL AND ANY SUBPANEL

NEC 690.13(B):
I PLACARD(S) LOCATED ON DC DISCONNECT

NEC 705.12(B)(3)(3):
I LABEL LOCATED AT PV BREAKER IN TESLA BACKUP GATEWAY 2

NEC 690.31(G)(3)(4):
LABELS LOCATED ON ALL PV SOURCE/ OUTPUT ENCLOSURES INSIDE BUILDING

NEC 690.13(B):
I PLACARD(S) LOCATED AT AC DISCONNECT

I PLACARD LOCATED AT BACKED UP LOADS PANEL

NEC 690.53:
1 LABEL(S) LOCATED ON DC DISCONNECT

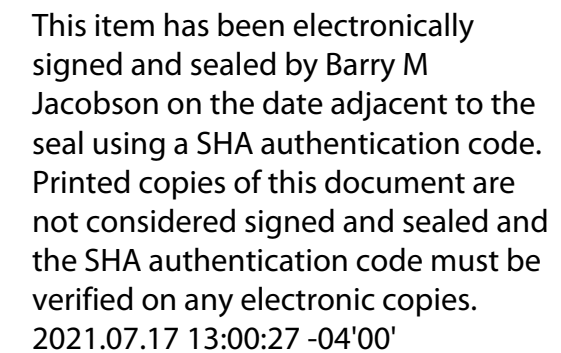
NEC 690.54:
1 PLACARD(S) LOCATED ON AC DISCONNECT

NEC 690.54:
I LABEL(S) LOCATED INSIDE MAIN AC PANEL

NEC 690.56(C)(2):
1 PLACARD LOCATED ON EXTERIOR AC DISCONNECT

NEC 690.13(B):
I LABEL(S) LOCATED INSIDE DC DISCONNECT

NEC 690.12 & 690.56(c)(1)(A):
1 PLACARD LOCATED AT RAPID SHUTDOWN SERVICE DISCONNECT



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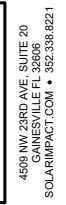
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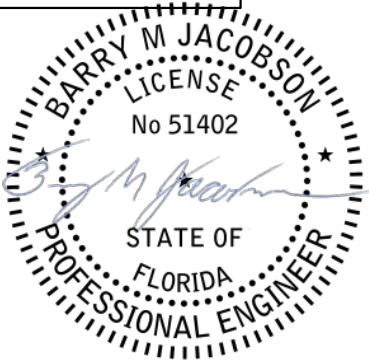
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NOT TO SCALE
PV-P.I

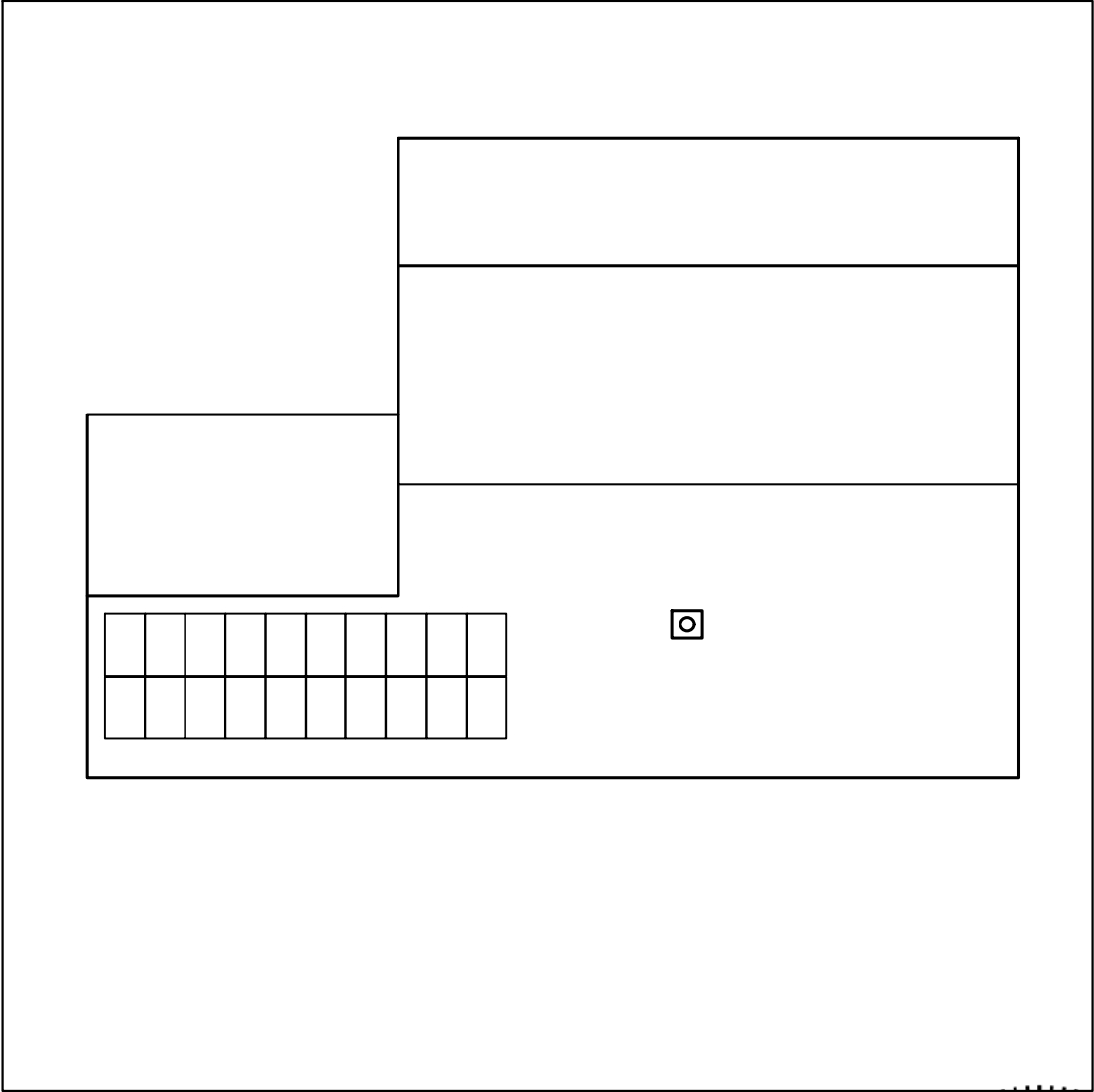
CONTRACTOR

DESIGNER





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SAFETY
PLAN
NOT TO SCALE
PV-N.I

SYSTEM DETAILS: 7.00kW DC
• 20 HANWHA Q PEAK DUO BLK-G8 350W MODULES
• 1 SOLAREDGE SE7600H-US INVERTER
• 1 TESLA POWERWALL 2 BATTERY
CONTACT: BRIAN LEVERETTE
• BRIAN.LEVERETTE@SOLARIMPACT.COM
• 352.727.0022

DESIGNER: TORRIN GLICK

PONDER RESIDENCE
734 SW MAPLETON ST
FORT WHITE, FL 32038

SOLAR INDIVIDUAL PERMIT PACKAGE



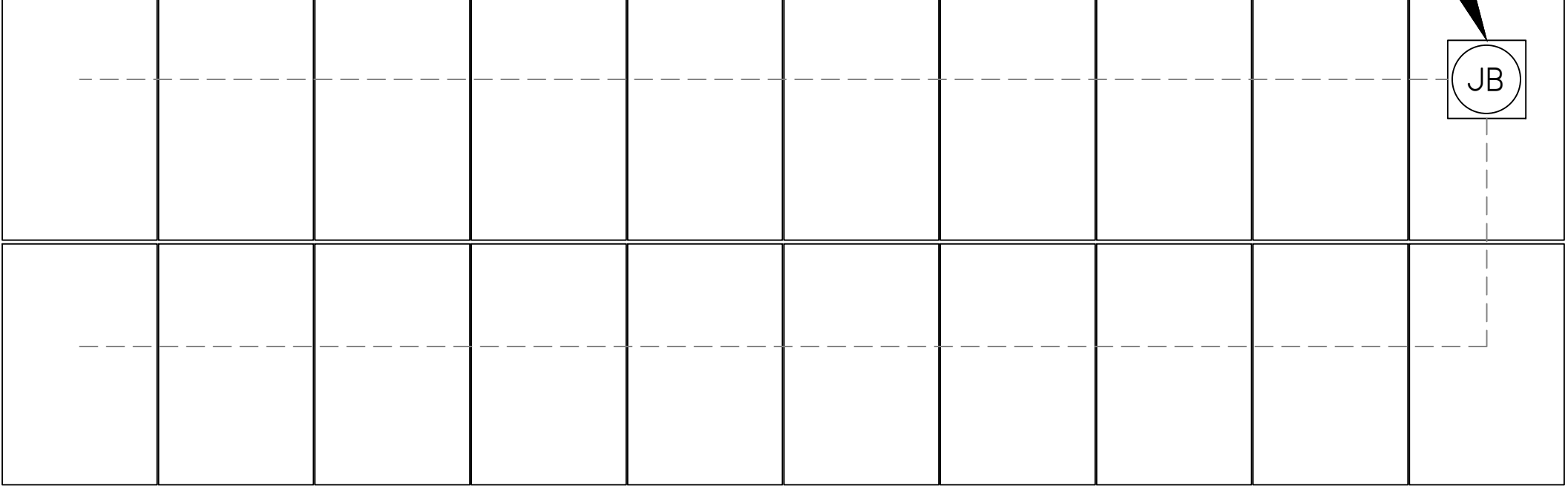
4509 NW 23RD AVE, SUITE 20
GAINESVILLE FL 32606
SOLARIMPACT.COM • 352.338.6221

CONTRACTOR

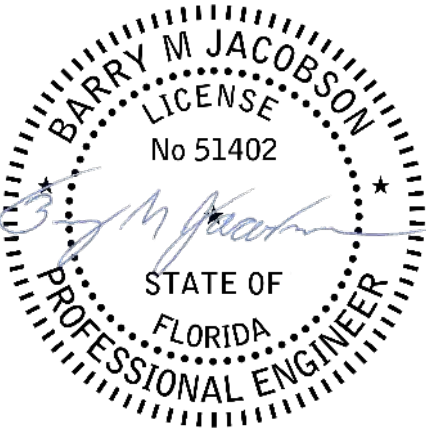


6707 WINCHESTER CIRCLE, BOULDER, CO 80301
888 FEDERAL BLVD, DENVER, CO 80202
WWW.NAMASTE-SOLAR.COM • 303.447.0300

DESIGNER



JUNCTION BOX



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2021.07.17 13:01:07 -04'00'

STRING
DIAGRAM
NOT TO SCALE
PV-N.2

SYSTEM DETAILS: 7.00KW DC
• 20 HANWHA Q.PEAK DUO BLK-G8 350W MODULES
• 1 SOLAREGE SE7600H-US INVERTER
• 1 TESLA POWERWALL 2 BATTERY
CONTACT: BRIAN LEVERETTE
• BRIAN.LEVERETTE@SOLARIMPACT.COM
• 352.727.0022

DESIGNER: TORRIN GLICK

PONDER RESIDENCE
734 SW MAPLETON ST
FORT WHITE, FL 32038

SOLAR INDIVIDUAL PERMIT PACKAGE



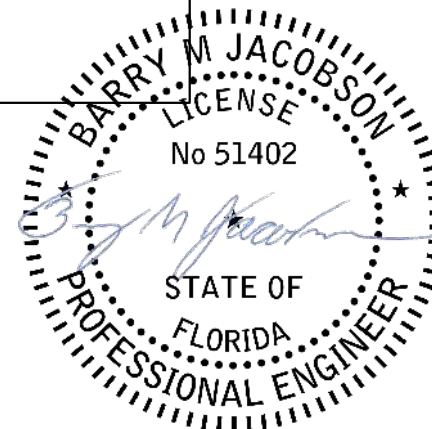
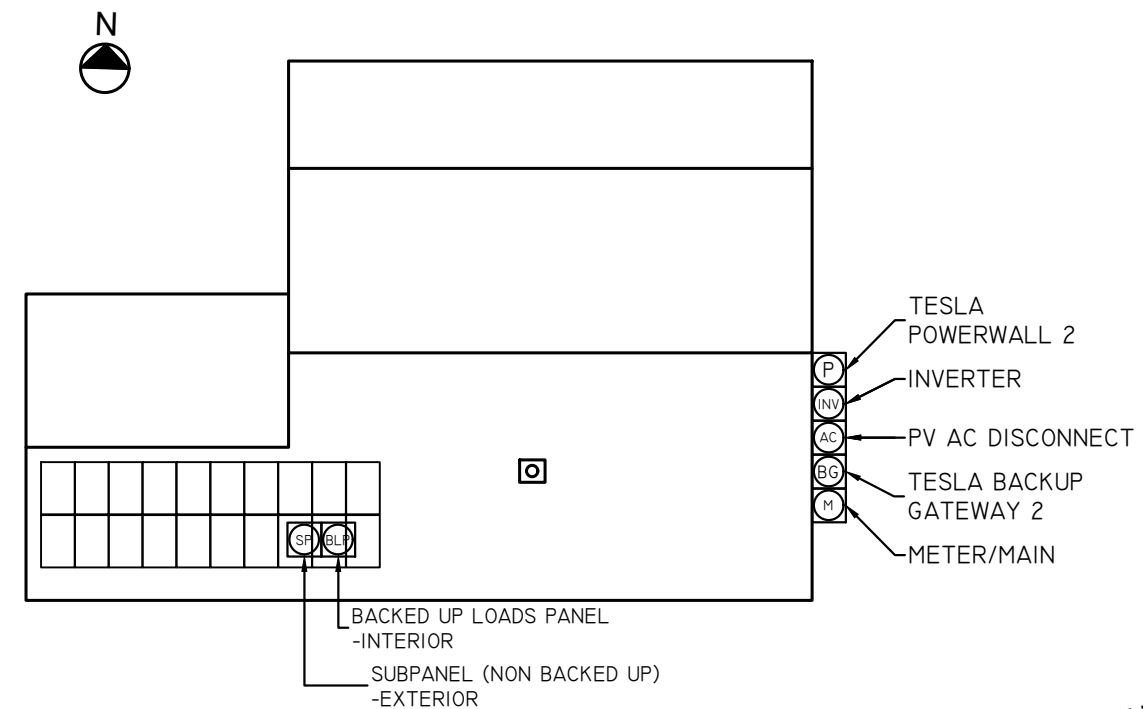
CONTRACTOR



DESIGNER

CAUTION

POWER TO THIS SERVICE IS ALSO SUPPLIED
FROM THE FOLLOWING SOURCES WITH
DISCONNECTS LOCATED AS SHOWN



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2021.07.17 13:01:29 -04'00'