

PV MATERIAL SUMMARY: D	DISTRIBUTOR	
Q.PEAK DUO BLK ML-G10+405 }	18	
TQ7PLUS-72-2-US	18	
X2-IQ-AM1-240-4	1	
Q-12-17-240	21	
Q-SEAL-10	3	
Q-TERM-10	2	
XR-10-204B	8	
XR10-BOSS-01-M1	4	70
UFO-CL-01-B1	40	EI
UFO-STP-32MM-B1	8	P
XR-LUG-03-A1	2	D
QB DECK MOUNT 16317	77	A D
MI-BHW	18	
GC66803 Geocel Sealant	5	
SOLADECK 0799-5B	1	







7091 ROSS RD ERWIN NC 28339

PROJECT INFO

DC INPUT: 7.290 kW
AC EXPORT: 5.220 kW
DOI INSPT. METHOD: OPTION 2

Model Energy

300 Fayetteville St. #1430 Raleigh, NC 27602 919-274-9905 ModelEnergy.com



NATION ELECTRICAL CODE v. 2017 NC FIRE PROTECTION CODE v. 2018 NC BUILDING CODE v. 2018 NC RESIDENTIAL CODE v. 2018 ACSE v. 7-10

SITE CONDITIONS

WIND SPEED: RISK CATEGORY: EXPOSURE: 118 MPH SNOW: 10 PSF

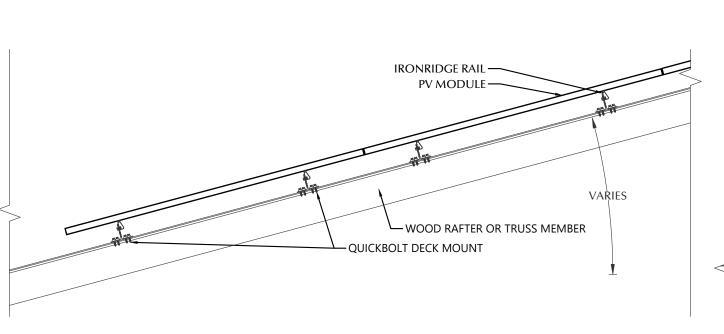
PV-1: COVER SHEET
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VERSIONS

FOR:	DESIGNER	DATE
CONSTRUCTION	MCP	7/17/2023
⚠ AS-BUILT	MCP	8/3/2023

PV SYSTEM COVER PAGE

PV-1.1



BONDING

PV MODULE FRAME

-IRONRIDGE RAIL

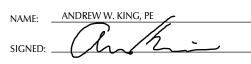
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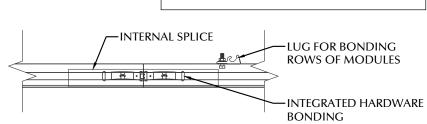
FASTENING OBJECT

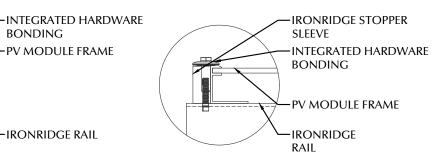
-IRONRIDGE UNIVERSAL

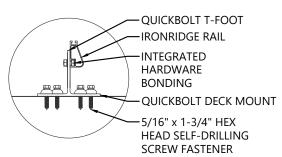
STATEMENT OF STRUCTURAL COMPLIANCE

THE EXISTING ROOF STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE ADDITIONAL LOADS OF THE PROPOSED PV SYSTEM. IN ADDITION, THE RACKING AND FASTENING SYSTEM SHALL BE CAPABLE OF SECURING THE SYSTEM TO THE STRUCTURE UNDER DESIGN CONDITIONS WHEN INSTALLED PROPERLY AND IN ACCORDANCE WITH THE RACKING AND FASTENING ARRANGEMENT DETAILED WITHIN THESE DRAWINGS.

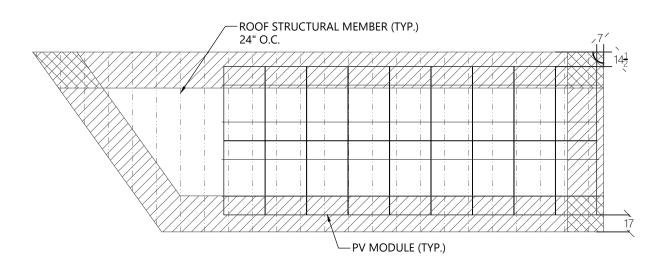








ROOF FASTENER DETAIL NOT TO SCALE



ROOF A ARRAY LAYOUT

~~~~~~	~~~~~~	₾
PV MODULES		
MAKE	HANWHA	3
MODEL	Q.PEAK DUO BLK ML-G10+405	)
WIDTH	41.10 IN	)
LENGTH	74.00 IN	2
THICKNESS	32 MM	2
WEIGHT	48.50 LBS.	{
ARRAY AREA	380 SQFT.	3
ARRAY WEIGHT	950 LBS.	?

ROOF SUMMARY				
STRUCTURE:				
TYPE	TRUSSES			
MATERIAL	SOUTHERN PINE #2			
SIZE	2 X 4			
SPACING	24 IN O.C.			
ALLOWABLE SPAN	88 IN			
PITCH	3/12			
DENSITY	30 LBS./CU.FT.			
DECKING:				
TYPE	OSB			
MATERIAL	COMPOSITE			
THICKNESS	7/16 IN			
WEIGHT	1.60 LBS/SQFT			
ROOFING:				
TYPE	ASPHALT SHINGLE			
MATERIAL	ASPHALT			
WEIGHT	2.30 LBS./SQFT.			

ROOF MOUNT SUMMARY				
MAXIMUM (IN)	MOUNT SPACING	RAIL OVERHANG		
WIND ZONE 1	40 IN	9 IN		
WIND ZONE 2	22 IN	9 IN		
WIND ZONE 3	13 IN	5 IN		

ROOF LO	DADING
GROUND SNOW LOAD:	15 LBS./SQFT.
LIVE LOAD	20 LBS./SQFT.
DEAD LOAD	
ROOFING	3.9 LBS/SQFT.
PV ARRAY	2.5 LBS./SQFT.
TOTAL	6.4 LBS./SQFT.
WIND LOAD:	
UPLIFT ZONE 1	-23.0 LBS./SQFT.
UPLIFT ZONE 2	-38.0 LBS./SQFT.
UPLIFT ZONE 3	-57.1 LBS./SQFT.
DOWNWARD	13.6 LBS./SQFT.
FASTENER LOAD:	
UPLIFT ZONE 1	-234 LBS.
UPLIFT ZONE 2	-213 LBS.
UPLIFT ZONE 3	-189 LBS.
DOWNWARD	139 LBS.

ROOF MOUN	T & FASTENER
ROOF MOUNT:	
MAKE	QUICKBOLT
MODEL	QB DECK MOUNT 16317
MATERIAL	STAINLESS / EPDM
FASTENER:	
MAKE	QUICK SCREWS
MODEL	HEX LAG PN# 16318
MATERIAL	304 SS
SIZE	5/16" X 1-3/4"
GENERAL:	
WEIGHT	0.88 LBS.
FASTENERS PER MOUNT	4
MAX. PULL-OUT FORCE	705.0 LBS.
SAFETY FACTOR	3
DESIGN PULL-OUT FORCE	235.0 LBS.

MOUNTING RAILS		
IRONRIDGE		
XR10		
ALUMINUM		
0.425 LBS/IN		
SPACING 37 IN		



JOHN G BARTLETT 7091 ROSS RD **ERWIN NC 28339** 

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	⚠ AS-BUILT	MCP	8/3/2023

**PV SYSTEM STRUCTURAL** 

CONDUCTOR SCHEDULE										
TAG	C	CURRENT CARRYING CO	ONDUCTORS	(	GROUNDING CON	IDUCTORS		CONDUIT	/RACEWAY	NOTES
IAU	QTY.	SIZE	INSULATION	QTY.	SIZE	INSULATION	QTY.	SIZE	LOCATION	NOILS
C1	4	12 AWG	DG CABLE	1	6 AWG	BARE	-	-	FREE AIR	1
C2	4	10 AWG	THWN-2	1	10 AWG	THWN-2	1	3/4"	EXT/INT	2,4
C3	3	10 AWG	THWN-2	1	10 AWG	THWN-2	1	3/4"	EXTERIOR	2,4
C4	3	6 AWG	THWN-2	1	6 AWG	THWN-2	1	1"	EXTERIOR	2,4
XC	ı	-	-	-	-	-	-	-	-	3

- MANUFACTURER PROVIDED, UL LISTED WIRING HARNESS FOR USE ON EXPOSED ROOFS
- CONDUIT SIZE SHOWN IS CODE MINIMUM. LARGER SIZES ARE ALLOWED.
- EXISTING CONDUCTORS, FIELD VERIFY
- EQUIPMENT TERMINAL RATING SHALL BE A MINIMUM OF 75°C AT BOTH END OF CONDUCTOR

PV MODULE				
MAKE	HANWHA			
MODEL	Q.PEAK DUO BLK ML-G10+405			
NOM. POWER (PNOM)	405 WATTS			
NOM. VOLT. (VMPP)	37.4 VOLTS			
O.C. VOLT (VOC)	45.3 VOLTS			
MAX. SYS. VOLT.	1000 VOLTS			
NOM. CURR. (IMPP)	10.8 AMPS			
S.C. CURR. (ISC)	11.2 AMPS			
TEMP. COEF. (PMPP)	−0.34 %/C			
TEMP. COEF. (Voc)	-0.27 %/C			
MAX SERIES FUSE	20 AMPS			
UL COMPLIANT (Y/N)	YES			

	1)		
	)	MAKE	ENPHASE
5	)	MODEL	X2-IQ-AM1-240-4
	)	INPUT:	
	)	MAX BRANCH CIRCUITS	4 TOTAL
	)	BRANCH CIRCUIT OCPD	50 AMPS
	)	OUTPUT:	
	K	MAX POWER	15600 WATTS
	1	NOM. VOLTAGE	240 VOLTS
	K	BUS RATING	125 AMPS
	K	MAIN BREAKER Y/N	NO
	K	ENCL. RATING	NEMA TYPE 3R
	(	UL LIST. (Y/N)	YES
~			
		HILLOT	CIONIDOV

PV COMBINER PANEL

SUB PANI	EL (EXISTING)	JUNC
MAKE	SIEMENS	MAKE
MODEL	M1632MB1200F	PROTECT. RATING
ENCL. RATING	NEMA 3R	UL LIST. (Y/N)
VOLT. RATING	240 VOLTS	
BUS RATING	200 AMPS	METER CO
UL LIST. (Y/N)	YES	WILTER CO
MAIN BREAKER (Y/N)	YES	MAKE
MAIN BREAKER RATING	200 AMPS	MODEL

JUNCTION BOX		
MAKE	SOLADECK	
PROTECT. RATING	NEMA TYPE 3R	
UL LIST. (Y/N)	YES	

METER COMBO (EXISTING)		
MIDWEST		
N/A		
NEMA 3R		
240		
200 AMPS		
YES		
YES		
200 AMPS		

BACK-FEED SOLAR OUTPUT VIA LOAD SIDE TAP IN BETWEEN OUTDOOR MAIN BREAKER AND SUB PANEL MAIN BREAKER.

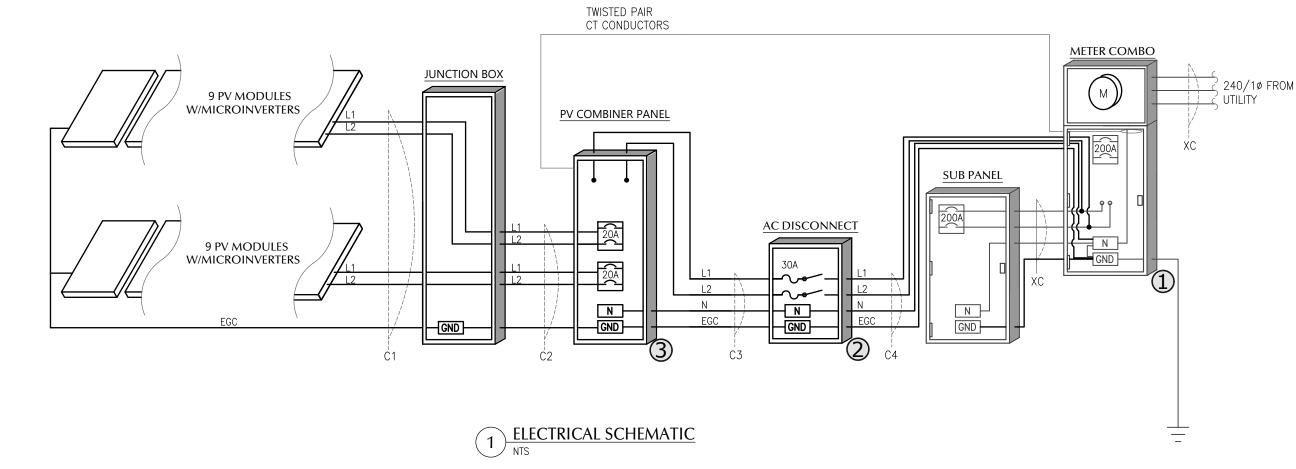
POWER RANGE (WATTS)	235-440
MIN/MAX START VOLT.	22 / 60
OPERATING VOLT. RANGE	16-60
MAX. CURRENT	15 AMPS
MODULE COMPATIBILITY	60 & 72 CELL
AC OUTPUT:	
CEC EFFICIENCY	1 WATTS
NOM. POWER	290 WATTS
NOM. VOLT.	211-240-264
MAX. CURR.	1.21 AMPS
DC DISC. (Y/N)	NO
RAPID SHUTDOWN (Y/N)	YES
PROTECT. RATING	NEMA TYPE 6
UL LIST. (Y/N)	YES
MAX BRANCH CIRCUIT	13

DC / AC INVERTER

MAKE DC INPUT: ENPHASE IQ7PLUS-72-2-US

AC DISCONNECT		
MAKE GENERIC		
NA		
NEMA 3R		
240 VOLTS		
30 AMPS		
YES		
YES		
30 AMPS		

- LOAD-BREAK RATED
- VISIBLE OPEN
- LOCKABLE IN OPEN POSITION
- INSTALL ADJACENT TO METER
  DISCONNECT TO BE READILY ACCESSIBLE TO UTILITY COMPANY PERSONNEL AT
- DISCONNECT MARKED AND RATED PER NEC SECTION 690.13 AND 705.10





JOHN G BARTLETT 7091 ROSS RD **ERWIN NC 28339** 

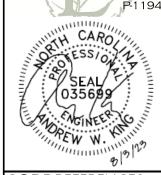
## PROJECT INFO

7.290 kW 5.220 kW AC EXPORT: DOI INSPT. METHOD: OPTION 2

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Raleigh, NC 27602 919-274-9905 ModelEnergy.com



NC FIRE PROTECTION CODE v. 2018 NC BUILDING CODE v. 2018 NC RESIDENTIAL CODE v. 2018 ACSE v. 7-10

#### SITE CONDITIONS

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i Oit.	DESIGNALIC	DATE	
CONSTRUCTION	MCP	7/17/2023	
⚠ AS-BUILT	MCP	8/3/2023	

**PV SYSTEM ELECTRICAL** 

PV-3.1

## **<b>MARNING**

PHOTOVOLTAIC SYSTEM **COMBINER PANEL** 

DO NOT ADD LOADS

NEC 705.12 (C)(3) PLACE ON PV COMBINER PANEL

## WARNING

SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE SHALL NOT EXCEED AMPACITY OF BUSBAR.

NEC 705.12 (B)(2)(3)(c) PLACE ON PV COMBINER PANEL

## RAPID SHUTDOWN **SWITCH FOR SOLAR PV SYSTEM**

NEC 690.56 (C)(3) PLACE ON RAPID SHUTDOWN SWITCH OR EQUIPMENT VITH INTEGRATED RAPID SHUTDOWN *REFLECTIVE*

## PV SYSTEM DISCONNEC^{*}

NEC 690.13 (B) PLACE ON PV SYSTEM DISCONNECTING MEANS.



OPERATING VOLTAGE 240 VOLTS

OPERATING CURRENT 21.78 AMPS

NEC 690 54 PLACE ON INTERCONNECTION

## **MWARNING**

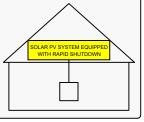
**DUAL POWER SUPPLY** 

SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

NEC 705.12 (B)(3) PLACE ON ALL EQUIPMENT THAT IS SUPPLIED BY BOTH POWER SOURCES

## SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



NEC 690.56 (C)(1)(a) PLACE WITHIN 3FT OF SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL.

> SERVICE DISCONNECT LOCATED: SOUTH-WEST SIDE OF HOUSE

PV DISCONNECT LOCATED: **SOUTH-WEST SIDE OF HOUSE** 



NEC 705.10
PLACE AT SERVICE EOUIPMENT AND PV SYSTEM DISCONNECTING MEANS. FIELD VERIFY EQUIPMENT LOCATIONS

### LABEL NOTES

- 1. LABELS SHOWN ARE HALF THEIR ACTUAL REQUIRED SIZE.
- LABEL MATERIAL SHALL BE SUITABLE FOR THE EQUIPMENT 2. ENVIRONMENT.
- DC CONDUIT SHALL BE MARKED WITH REQUIRED LABEL EVERY 10 3.
- 4. LABELS WILL BE APPLIED IN ACCORDANCE WITH THE NEC. SOME LABELS MAY NOT BE NECESSARY.

## DC WIRING NOTES

- CONDUCTORS SHALL BE COPPER, RATED AT NOT LESS THAN 600 VOLTS FOR RESIDENTIAL CONSTRUCTION AND NOT LESS THAN 1000 VOLTS FOR COMMERCIAL CONSTRUCTION.
- MINIMUM SIZE SHALL BE #10 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- EXPOSED WIRING CONDUCTOR INSULATION SHALL BE TYPE PV WIRE, USE-2, OR RHW-2 WHERE THE OUTER LAYER OF THE INSULATION IS UV, SUNLIGHT, AND MOISTURE RESISTANT.
- EXTERIOR WIRING CONDUCTOR INSULATION SHALL BE TYPE THWN-2 AND INSTALLED IN ELECTRICAL METALLIC TUBING(EMT) OR RIGID POLYVINYL CHLORIDE CONDUIT(PVC). ALTERNATIVELY, METAL CLAD CABLE(MC) CAN BE USED AS WELL WHEN RATED FOR USE IN WET LOCATIONS.
- INTERIOR WIRING CONDUCTOR INSULATION SHALL BE TYPE THHN-2 AND INSTALLED IN ELECTRICAL METALLIC TUBING(EMT), FLEXIBLE METAL CONDUIT(FMC), OR METAL CLAD CABLE(MC).
- USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. USE SCHEDULE 80 PVC OUTDOORS WHERE SUBJECT TO PHYSICAL DAMMAGE
- MINIMUM CONDUIT SIZE TO BE 1/2".
- WIRING METHODS TO CONFORM TO ARTICLES 330, 334, 348, 350, 352, 356, AND 358 OF THE 2017 NEC.

## **AC WIRING NOTES**

- CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS.
- 2. MINIMUM SIZE SHALL BE #14 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS
- EXTERIOR WIRING CONDUCTOR INSULATION SHALL BE TYPE THWN AND INSTALLED IN ELECTRICAL METALLIC TUBING(EMT), RIGID POLYVINYL CHLORIDE CONDUIT(PVC), LIQUID-TIGHT FLEXIBLE METAL CONDUIT(LFMC), OR LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT(LFNC). ALTERNATIVELY, METAL CLAD CABLE(MC) CAN BE USED AS WELL WHEN RATED FOR USE IN WET LOCATIONS.
- INTERIOR WIRING CONDUCTOR INSULATION SHALL BE TYPE THHN AND INSTALLED IN ELECTRICAL METALLIC TUBING(EMT), FLEXIBLE METAL CONDUIT(FMC), METAL CLAD CABLE(MC), OR ROMEX.
- USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. USE SCHEDULE 80 PVC OUTDOORS WHERE SUBJECT TO PHYSICAL DAMMAGE
- MINIMUM CONDUIT SIZE TO BE 1/2".
- WIRING METHODS TO CONFORM TO ARTICLES 330, 334, 348, 350, 352, 356, AND 358 OF THE 2017 NEC.

## **CONSTRUCTION NOTES**

- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE NEC, STATE, AND LOCAL APPLICABLE CODES. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS, BEST
- PRACTICES, AND SPECIFICATIONS. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE
- MAINTAINED. WIRES SHALL BE RATED AND LABELED "SUNLIGHT RESISTANT" WHERE EXPOSED TO AMBIENT CONDITIONS.
- FUSES 0 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.
- ALL TERMINALS/LUGS SHALL BE 75° RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED
- PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
- ALL PENETRATIONS THROUGH EXTERIOR ROOFS SHALL BE FLASHED IN A WATERPROOF MANNER.
- ALL PENETRATIONS THROUGH ATTIC FIRE BARRIERS SHALL BE SEALED WITH FIRE-BARRIER SEALANT CAULK.
- 10. SUPPORT ALL CONDUIT AND EQUIPMENT IN ACCORDANCE W/ NEC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE **BUILDING STRUCTURE.**
- 11. METAL CONDUIT COUPLINGS CAN BE COMPRESSION TYPE, THREADED, OR BE SET-SCREW TYPE. PLASTIC CONDUIT COUPLINGS TO BE SOCKET GLUED TYPE.
- 12. A COMPLETE GROUNDING SYSTEM SHALL BE PRESENT OR PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- 13. EACH ELECTRICAL APPLIANCE SHALL BE PROVIDED WITH A NAMEPLATE GIVING THE IDENTIFYING NAME AND THE RATING IN VOLTS AND AMPERES, OR VOLTS AND WATTS. IF THE APPLIANCE IS TO BE USED ON A SPECIFIC FREQUENCY OR FREQUENCIES, IT SHALL BE SO MARKED. WHERE MOTOR OVERLOAD PROTECTION EXTERNAL TO THE APPLIANCES IS REQUIRED, THE APPLIANCE SHALL BE SO MARKED.
- 14. WHERE APPLICABLE, GROUNDING ELECTRODE CONDUCTOR TO BE CONTINUOUS. GROUNDING CRIMPS TO BE IRREVERSIBLE.
- 15. PHOTOVOLTAIC SYSTEMS SHALL BE PERMANENTLY MARKED AT VARIOUS EQUIPMENT LOCATIONS TO IDENTIFY THAT A PHOTOVOLTAIC SYSTEM IS INSTALLED AND THAT VARIOUS DANGERS ARE PRESENT.
- 16. EACH PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A PHOTOVOLTAIC SYSTEM DISCONNECT.
- 17. WHERE ALL TERMINALS OF A DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION, A WARNING SIGN SHALL BE MOUNTED ON OR ADJACENT TO THE DISCONNECT.
- 18. A PERMANENT LABEL FOR THE DIRECT-CURRENT PHOTOVOLTAIC POWER SOURCE SHALL BE PROVIDED AT THE DC DISCONNECT MEANS.
- 19. A PERMANENT PLAQUE OR DIRECTORY, DENOTING ALL ELECTRIC POWER SOURCES SERVING THE PREMISES. SHALL BE INSTALLED AT EACH SERVICE EQUIPMENT LOCATION AND AT LOCATIONS OF ALL POWER PRODUCTION SOURCES.
- 20. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC SECTION 690.4 (C)
- 21. A NORTH CAROLINA REGISTERED DESIGN PROFESSIONAL WILL BE REQUIRED TO SEAL THE STRUCTURAL DESIGN AT THE TIME OF PERMIT APPLICATION IF ANY OF THE FOLLOWING EXIST AND ARE ATTESTED TO BY THE APPLICANT:
  - I. THE WEIGHT OF THE PV SYSTEM EXCEEDS THREE (3) POUNDS PER SQUARE FOOT(PSF)
  - II. THE ROOF POSSESSES MORE THAN ONE (1) LAYER OF ASPHALT
  - III. THE ROOFING MATERIAL CONSISTS OF A TYPE OTHER THAN ASPHALT SHINGLES OR METAL
  - IV. THE ROOF IS LOCATED IN A 140 MPH OR GREATER WIND ZONE

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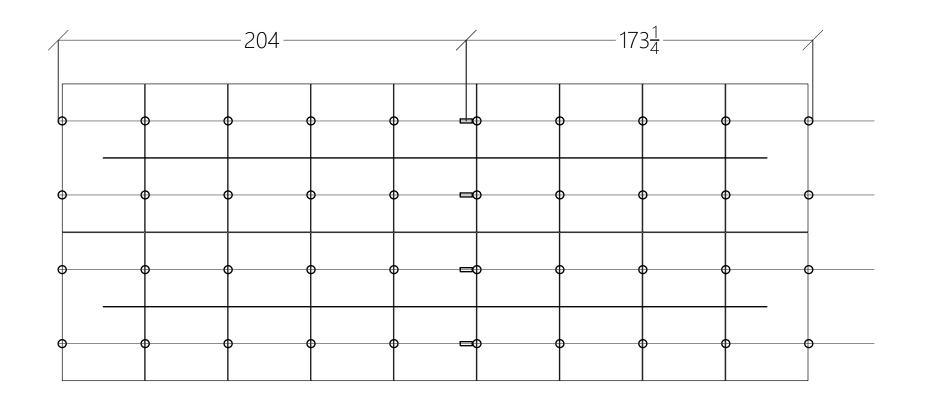
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## versions

DESIGNER DATE 7/17/202 ONSTRUCTION MCP AS-BUILT MCP

PV SYSTEM **EQUIPMENT LABELS** 







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PV SYSTEM INSTALL GUIDE

PV-5.1