

# Vicinity Map



# Construction notes

1. PHOTOVOLTAIC ARRAYS SHALL BE PROVIDED WITH DC GROUND-FAULT PROTECTION, NEC 690.5
2. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A RECOGNIZED ELECTRICAL TESTING LABORATORY AND INSTALLED PER THE LISTING REQUIREMENTS AND THE MANUFACTURERS INSTRUCTIONS. NEC 690.9 (A)
3. DC GROUNDING ELECTRODE SHALL BE BONDED TO THE AC GROUNDING ELECTRODE AND THE CONDUCTOR SHALL BE NO SMALLER THAN THE LARGEST GROUNDING ELECTRODE CONDUCTOR, EITHER AC OR DC. NEC 690.47 C7
4. GROUNDING SHALL BE CONTINUOUS AND INSTALLED TO ALLOW FOR PANEL REMOVAL WITHOUT DISRUPTING CONTINUITY. ALL MODULE GROUND CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH NEC 690.4 C
5. GROUNDING BUSHINGS ARE REQUIRED AROUND PRE-PUNCHED CONCENTRIC KNOCKOUTS ON THE DC SIDE OF THE SYSTEM. NEC 250.97
- 6.4. THE AC GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED ACCORDING TO NEC 250.66 AND TABLE 310.15B 6 FOR DWELLINGS, NEC 690.47 C
7. WORKING CLEARANCES AROUND THE EXISTING ELECTRICAL EQUIPMENT AND THE NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC 110.26 9. ALL PHOTOVOLTAIC SYSTEM CONDUCTORS WILL BE 90 DEGREE C RATED. NEC 690.31B, TABLE 31.16, TABLE 310.17
8. WHERE DC CONDUCTORS ARE RUN INSIDE THE BUILDING (OR ATTIC), THEY SHALL BE CONTAINED IN A METAL RACEWAY. NEC 690.31 (E)
9. ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE RAIN-TIGHT AND APPROVED FOR USE IN WET LOCATIONS. NEC 314.15
10. ANY CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT. NEC 300.6 C1, 310.8 D
11. ALL METALLIC RACEWAYS AND EQUIPMENT SHALL BE BONDED AND ELECTRICALLY CONTINUOUS. NEC 250.90, 250.96
12. DC GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED ACCORDING TO NEC 250.166, NEC690.47B

# System Information

**11.20kW-DC-STC/8.12kW-AC**

QTY	EQUIPMENT
28	Aptos DNA-144-MF23-400W
28	ENPHASE: IQ7PLUS-72-2-US (240V)
1	ENPHASE IQ COMBINER 3 W/INTEGRATED ENVOY MONITORING
1	ENPHASE: ENPOWER SMART SWITCH
1	ENPHASE: ENCHARGE 3KW BATTERY
----	----

# Customer DETAILS

Maria Rodriguez  
5223 SPAIN ST, NEW ORLEANS, LA 70122, USA

# SYSTEM DETAILS

System Size:  
**11.20 kW**  
Modules:  
28 APTOS DNA-144-MF23-400W  
Inverter(s):  
28 ENPHASE: IQ7PLUS-72-2-US (240V)  
Other:  
1 ENPHASE IQ COMBINER 3 W/INTEGRATED ENVOY MONITORING  
1 ENPHASE: ENPOWER SMART SWITCH  
1 ENPHASE: ENCHARGE 3KW BATTERY  
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# APPLICABLE CODES

2015	INTERNATIONAL RESIDENTIAL CODE
2015	INTERNATIONAL FIRE CODE
2017	NATIONAL ELECTRIC CODE



# Project Information

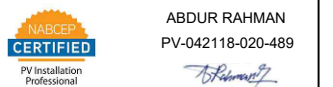
**MARIA RODRIGUEZ**

**5223 SPAIN ST, NEW ORLEANS, LA 70122, USA**

**UTILITY:Entergy**



# COVER PAGE



**DRAWN BY**  
Duna Jenkins 3/2/22

SCALE: NTS  
**PV-1**

# NOTES

AHJ: ORLEANS COUNTY  
 UTILITY: Entergy  
 ROOF TYPE: COMPOSITION SHINGLE  
 TOTAL ARRAY SQUARE FOOTAGE: 549.08 ft<sup>2</sup>  
 NO ENCROACHMENT INTO EASEMENTS BY NEW SCOPE OF WORK (SOLAR MODULES, RACK, RAIL, AND EQUIPMENT)  
 AC Disconnect Switched Visible Labeled Lockable is within 10ft of Existing Utility Meter

UTILITY METER #: ----  
 ESIID#: 166256420

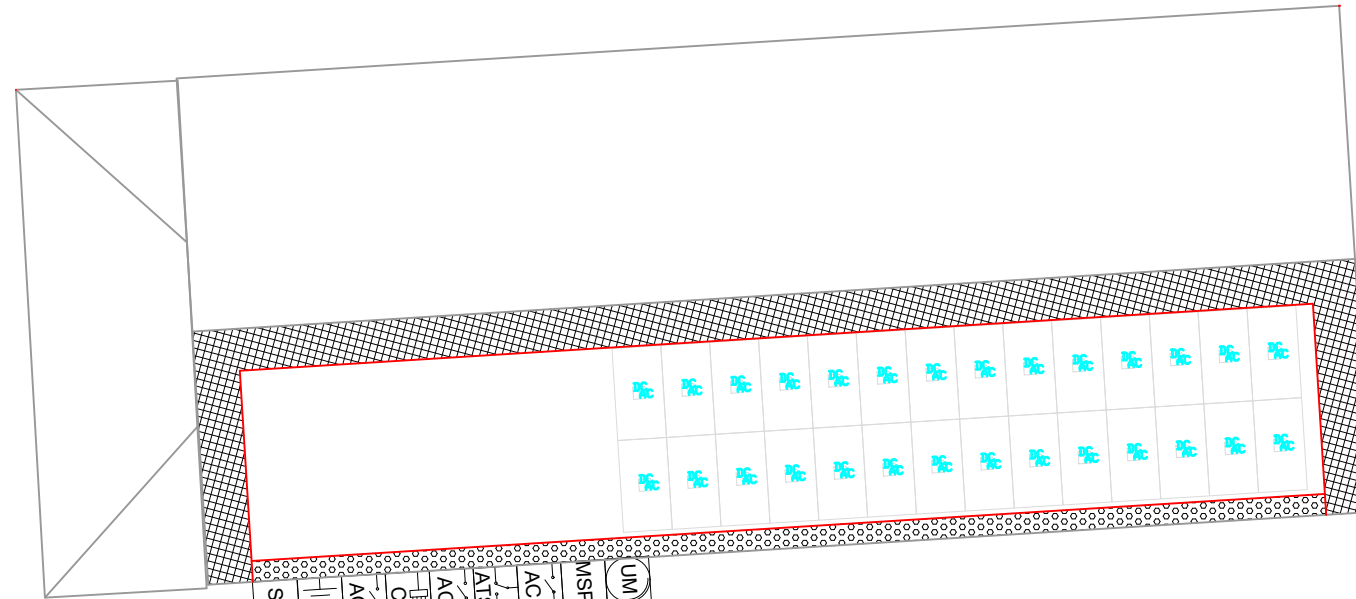
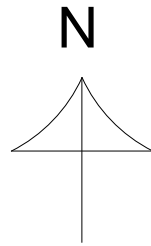
# LEGEND

UTILITY METER	NON-FUSED AC DISCONNECT
125A PV Meter	FUSED AC DISCONNECT
GAS METER	INVERTER
MAIN SERVICE PANEL	GENERATOR
COMBINER BOX	AUTOMATIC TRANSFER SWITCH
SUB-PANEL	MANUAL TRANSFER SWITCH
DC OPTIMIZER	A/C UNIT
BATTERY	18" FIRE SAFETY PATH IFC 605.11
3' FIRE SAFETY PATH IFC 605.11	

# ARRAY DETAILS

ARRAY	# OF MODULES	AZIMUTH	PITCH
1	28	180	20°

# Site Plan



NEW 125A BACKUP LOADS PANEL  
 ENCHARGE BATTERY 3kW

VISIBLE LOCKABLE LABELED PV AC DISCONNECT  
 LOCATED WITH 10' OF ONCOR METER

NEW ENPHASE COMBINER PANEL

VISIBLE LOCKABLE LABELED PV AC DISCONNECT  
 LOCATED WITH 10' OF ONCOR METER

ENPOWER SMART SWICTH

VISIBLE LOCKABLE LABELED PV AC DISCONNECT  
 LOCATED WITH 10' OF ONCOR METER

NEW MSP 225 BUSBAR,200 MAIN BREAKER

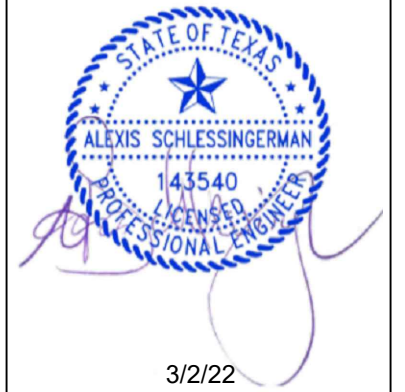
ONCOR METER #: ----  
 ESID #:166256420

# Customer DETAILS

Maria Rodriguez  
 5223 SPAIN ST, NEW ORLEANS, LA 70122, USA

# SYSTEM DETAILS

System Size:  
**11.20 kW**  
 Modules:  
 28 APTOS DNA-144-MF23-400W  
 Inverter(s):  
 28 ENPHASE: IQ7PLUS-72-2-US (240V)  
 Other:  
 1 ENPHASE IQ COMBINER 3 W/INTEGRATED ENVOY MONITORING  
 1 ENPHASE: ENPOWER SMART SWITCH  
 1 ENPHASE: ENCHARGE 3KW BATTERY  
 ----



# Site Plan

ABDUR RAHMAN  
 PV-042118-020-489

**DRAWN BY**  
 Duna Jenkins 3/2/22

SCALE: NTS  
**PV-3**

# Electrical Diagram

## Customer DETAILS

Maria Rodriguez

5223 SPAIN ST, NEW ORLEANS, LA 70122, USA

## SYSTEM DETAILS

System Size:

11.20 kW

Modules:

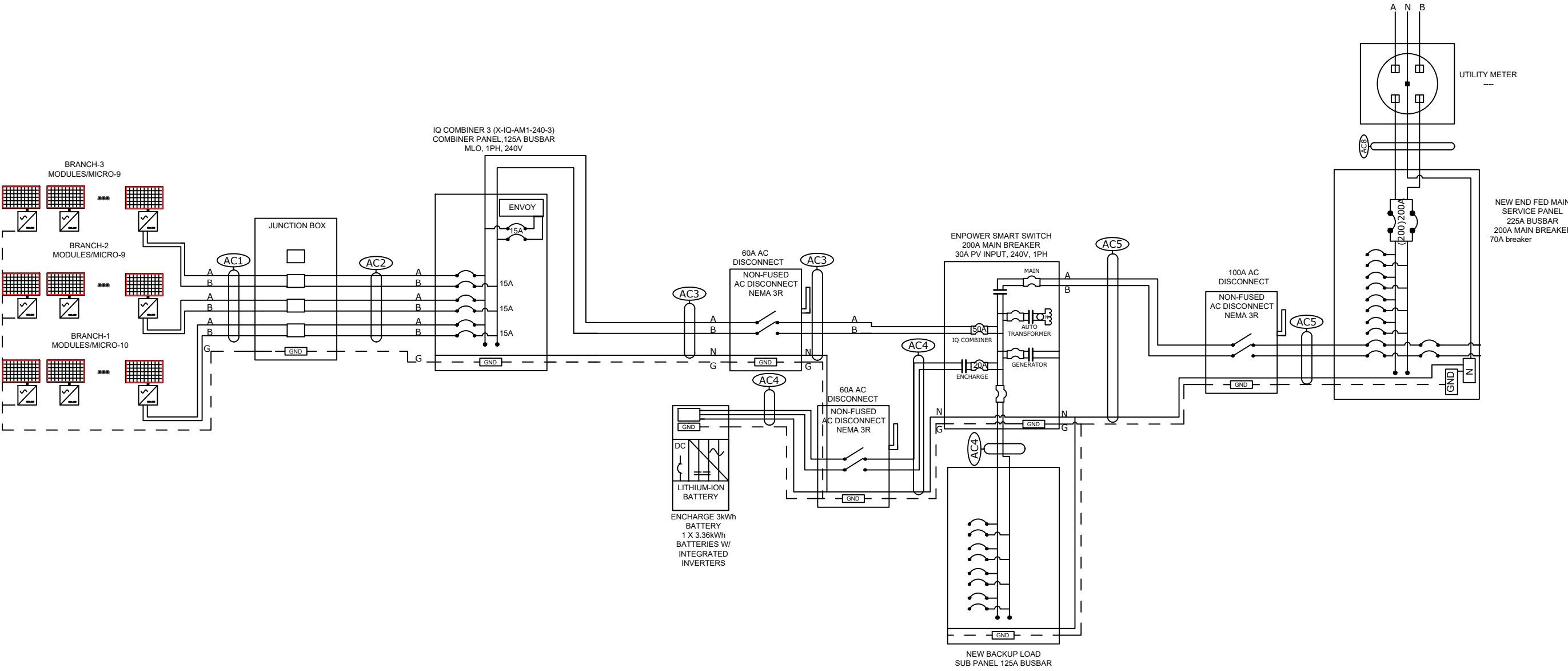
28 APTOS DNA-144-MF23-400W

Inverter(s):

28 ENPHASE: IQ7PLUS-72-2-US (240V)

Other:

1 ENPHASE IQ COMBINER 3 W/INTEGRATED ENVOY MONITORING  
1 ENPHASE: ENPOWER SMART SWITCH  
1 ENPHASE: ENCHARGE 3KW BATTERY



CONDUCTOR/CONDUIT TABLE					
CONDUCTOR TABLE				CONDUIT TABLE	
TAG	QTY	TYPE	GROUND	SIZE	TYPE
AC1	2	#12 AWG Q CABLE	#6 AWG BARE CU	-	FREE AIR
AC2	2	#10 AWG THWN-2 CU	#6 AWG THWN-2 CU	1"	EMT
AC3	3	#6 AWG THWN-2 CU	#6 AWG THWN-2 CU	1"	EMT
AC4	3	#8 AWG THWN-2 CU	#6 AWG THWN-2 CU	1"	EMT
AC5	3	#8 AWG THWN-2 CU	#6 AWG THWN-2 CU	1"	EMT
AC6	3	#8 AWG THWN-2 CU	#10 AWG THWN-2 CU	1"	EMT
AC7	0	#6 AWG THWN-2 CU	#6 AWG THWN-2 CU	1"	EMT
AC8	2	#2/0 KCMIL THWN-2 AL	#4 AWG THWN-2 CU	2"	EMT

**NOTES**

(A) 60A SWITCHED VISIBLE LOCKABLE LABELED PV AC DISCONNECT LOCATED WITHIN 10FT FROM ONCOR METER

MEETS UL2703 SYSTEM EQUIPMENT GROUNDING AND BONDING STANDARD

INVERTER(S) EQUIPPED WITH RAPID SHUTDOWN PER NEC 690.12

(B) UTILITY METER #: ----  
ESIID#: 166256420

BRANCH DETAILS		
BRANCH	# OF MODULES	kW
BRANCH 1	10	4.00 kW
BRANCH 2	9	3.60 kW
BRANCH 3	9	3.60 kW



**Electrical Diagram**

NABCEP CERTIFIED PV Installation Professional

ABDUR RAHMAN  
PV-042118-020-489

**DRAWN BY**  
Duna Jenkins 3/2/22

SCALE: NTS

# PV-4.1



# CALCULATIONS

## AC WIRE SIZING CHART

CIRCUIT ORIGIN	CIRCUIT DESTINATION	CALLOUT	CONDUCTOR SPECIFICATIONS				MAX INV. OUTPUT (A) OR COMPONENT (A)	X	CONT. OPERATION 690.8(B)(1)	=	REQUIRED AMPACITY	CIRCUIT ENVIRONMENT	0.04% AVG HIGH TEMP (°C)	TEMP. ADDER 33° PER 310.15(b)(2)(a) If Less than 7/8" above roof	OPERATING TEMP (°C)	AMPACITY CORRECTION 310.15(B)(2)(a)	# OF UNGRND. COND.	AMPACITY CORRECTION 310.15(B)(3)(a)	COND. AMPACITY	X	TEMP. DEATING	X	CONDUIT FILL DERATING	=	CORRECTED AMPACITY	WIRE (RATED AT 90°)		TERMINAL (RATED AT 75°)			
			MATERIAL	TEMP RATING (°C)	TRADE SIZE AWG	AMPACITY @ 30°C PER 310.16																				REQUIRED AMPACITY	<	CORRECTED AMPACITY	REQUIRED AMPACITY	<	AMPACITY AT RATED 75° TERMINATION
MICRO INVERTER	JUNCTION BOX	AC1	CU	90°	12	30	14.52	X	1.25	=	18.15	EXT WALL	37	0	37	0.88	FREE AIR	1.00	30	X	0.88	X	1.00	=	26.40	18.15	<	26.40	18.15	<	25
junction box	Combiner	AC2	CU	90°	10	40	14.52	X	1.25	=	18.15	EXT WALL	37	0	37	0.88	FREE AIR	1.00	30	X	0.88	X	1.00	=	26.40	18.15	<	26.40	18.15	<	25
combiner	smart switch	AC3	CU	90°	8	75	33.88	X	1.25	=	42.35	EXT WALL	37	0	37	0.88	2	1.00	40	X	0.88	X	1.00	=	35.20	42.35	<	35.20	42.35	<	35
battery	smart switch	AC4	CU	90°	8	40	13.75	X	1.25	=	17.19	EXT WALL	37	0	37	0.88	4	0.80	40	X	0.88	X	0.80	=	28.16	17.19	<	28.16	17.19	<	35
smart switch	interconnection	AC5	CU	90°	8	75	47.63	X	1.25	=	59.54	EXT WALL	37	0	37	0.88	3	1.00	75	X	0.88	X	1.00	=	66.00	59.54	<	66.00	59.54	<	65
		AC6	CU	90°	8	55	32.00	X	1.25	=	40.00	EXT WALL	37	0	37	0.88	3	1.00	55	X	0.88	X	1.00	=	48.40	40.00	<	48.40	40.00	<	50
		AC7	CU	90°	6	75	32.00	X	1.25	=	40.00	EXT WALL	37	0	37	0.88	3	1.00	75	X	0.88	X	1.00	=	66.00	40.00	<	66.00	40.00	<	65

## SERVICE ENTRANCE AC WIRE SIZING CHART

CIRCUIT ORIGIN	CIRCUIT DESTINATION	CONDUCTOR SPECIFICATION		
		MATERIAL	SERVICE RATING (AMPS)	TRADE SIZE AWG/kcmil PER TABLE 310.12
AC8-METER	SERVICE PANEL	CU	200	2 / 0 CU

## CONDUCTOR/CONDUIT TABLE

CONDUCTOR TABLE				CONDUIT TABLE	
TAG	QTY	TYPE	GROUND	SIZE	TYPE
AC1	2	#12 AWG Q CABLE	#6 AWG BARE CU	-	FREE AIR
AC2	2	#10 AWG THWN-2 CU	#6 AWG THWN-2 CU	1"	EMT
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AC5	3	#6 AWG THWN-2 CU	#6 AWG THWN-2 CU	1"	EMT
AC6	3	#8 AWG THWN-2 CU	#10 AWG THWN-2 CU	1"	EMT
AC7	0	#6 AWG THWN-2 CU	#6 AWG THWN-2 CU	1"	EMT
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## NOTES

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## BRANCH DETAILS

BRANCH	# OF MODULES	kW
BRANCH 1	10	4.00 kW
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## Customer DETAILS

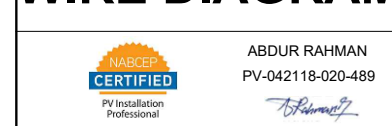
Maria Rodriguez  
5223 SPAIN ST, NEW ORLEANS, LA 70122, USA

## SYSTEM DETAILS

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Other:  
1 ENPHASE IQ COMBINER 3 W/INTEGRATED ENVOY MONITORING  
1 ENPHASE: ENPOWER SMART SWITCH  
1 ENPHASE: ENCHARGE 3KW BATTERY



## WIRE DIAGRAM



**DRAWN BY**  
Duna Jenkins 3/2/22

SCALE: NTS  
**PV-4.2**

# STRUCTURAL DETAILS

## Customer DETAILS

Maria Rodriguez

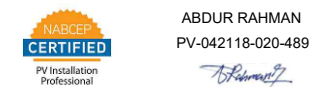
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3/2/22



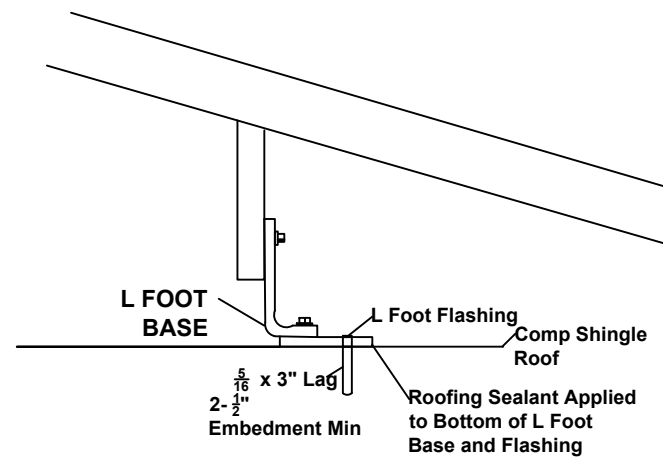
## STRUCTURAL

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 Duna Jenkins 3/2/22

SCALE: NTS

**PV-5**

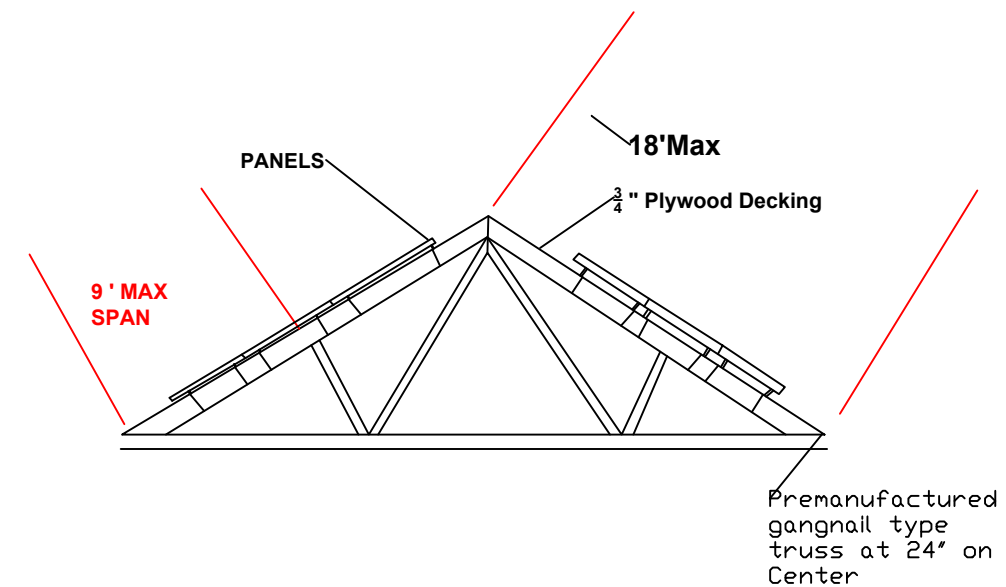
### ATTACHMENT DETAIL



Spacing of L foot Mounts are Max of 6' Span

Roof Attachment Details  
 SCALE 1"=1'

### Attachment Details 2



### RACKING NOTES

1	MOUNTING DETAIL	IRONRIDGE: XR10
2	FLASHED ATTACHMENT	UNIRAC FLASHLOCKS

### SPACING NOTES

A	MAX. ATTACHMENT SPACING	48" O.C
B	MAX. RAIL CANTILEVER	16"

### OTHER NOTES

EXPOSURE CATEGORY	C
BASIC WIND SPEED	115MPH
GROUND SNOW LOAD	5 LB/FT <sup>2</sup>

# LABELING/PLACARDS

## Customer DETAILS

Maria Rodriguez

5223 SPAIN ST, NEW ORLEANS, LA 70122, USA

## SYSTEM DETAILS

System Size:

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Modules:

28 APTOS DNA-144-MF23-400W

Inverter(s):

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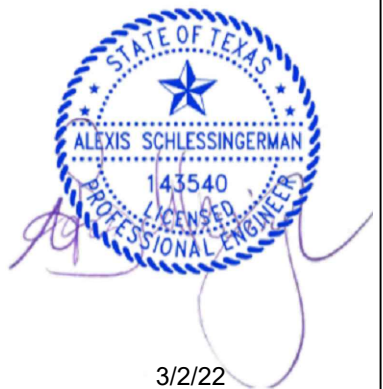
Other:

1 ENPHASE IQ COMBINER 3 W/INTEGRATED ENVOY MONITORING

1 ENPHASE: ENPOWER SMART SWITCH

1 ENPHASE: ENCHARGE 3KW BATTERY

----



## LABELS/ PLACARDS



ABDUR RAHMAN

PV-042118-020-489

*Signature*

## DRAWN BY

Duna Jenkins 3/2/22

SCALE: NTS

# PV-7

### 1.COMBINER BOX / CIRCUITS / CONDUIT COMBINER BOX / ENCLOSURES / EMT ENCLOSURES

**WARNING**  
**ELECTRICAL SHOCK HAZARD**  
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION  
NEC 706.15(C)(4) and NEC 690.13(B)  
Roll: 596-00878 / 10-Pk: 596-00893  
Metal 5-Pk: 596-00921

**WARNING**  
**TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL**  
NEC 110.27(C) & OSHA 1910.145(f)(7)  
Roll: 596-00499 / 10-Pk: 596-00664  
Metal 5-Pk: 596-00832

### 2 BUILDING / STRUCTURE

**CAUTION**  
POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN:  
UTILITY SUPPLY & CUSTOMER SERVICE PANEL  
PVI/AC DISCONNECT  
RAPID SHUT-DOWN SWITCH  
NEC 705.10 & 690.56(A)(B)  
Roll: 558-00350

### 4 EMT / CONDUIT RACEWAYS

**SOLAR PV DC CIRCUIT**  
EVERY 10' ON CONDUIT AND ENCLOSURES  
NEC 690.31(O)(2)

**PHOTOVOLTAIC POWER SOURCE**  
EVERY 10' ON CONDUIT AND ENCLOSURES  
NEC 690.31(D)(2)

### 3.DC DISCONNECT / BREAKER / RECOMBINER BOX

**WARNING**  
**ELECTRICAL SHOCK HAZARD**  
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION  
DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT  
NEC 690.13(B) / Roll: 596-00879  
10-Pk: 596-00894 / Metal 5-Pk: 596-00920

**PHOTOVOLTAIC DC DISCONNECT**  
NEC 690.13(B)

PHOTOVOLTAIC DC DISCONNECT	PHOTOVOLTAIC DC DISCONNECT
Hand-writable 5-Pk: 596-00842	Engravable 5-Pk: 596-00858

**RATED AC OPERATING CURRENT:** \_\_\_\_\_  
**MAX RATED AC OPERATING CURRENT:** \_\_\_\_\_  
**RATED AC OPERATING VOLTAGE:** \_\_\_\_\_  
**MAX RATED AC OPERATING VOLTAGE:** **240V**  
**RATED SHORT CIRCUIT CURRENT:** \_\_\_\_\_  
**MAXIMUM SYSTEM VOLTAGE:** \_\_\_\_\_  
FOR MARKING DC BACKUP SYSTEMS / Roll: 596-00240

**MAXIMUM DC VOLTAGE OF PV SYSTEM**  
NEC 690.53 / Roll: 596-01001 / 10-Pk:596-01009

### 5.INVERTER

**WARNING**  
**ELECTRICAL SHOCK HAZARD**  
THE DISCONNECTION OF THE GROUNDED CONDUCTOR(S) MAY RESULT IN OVERVOLTAGE ON THE EQUIPMENT  
NEC 690.31(E) / Roll: 596-09323  
10-Pk: 596-09324 / Metal 5-Pk: 596-00924

**PHOTOVOLTAIC AC DISCONNECT**  
**RATED AC OUTPUT CURRENT:** #####A  
**NOMINAL OPERATING AC VOLTAGE:** 240V  
NEC 690.54 / Roll: 596-00892 / 10-Pk: 596-00882

PHOTOVOLTAIC AC DISCONNECT	PHOTOVOLTAIC AC DISCONNECT
Hand-writable 5-Pk:596-00919	Engravable 5-Pk:596-00923

### 6.PRODUCTION / NET METER (BI-DIRECTIONAL)

**WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM**  
NEC 705.12(D)(3) & NEC 690.59 / Roll: 596-00495  
10-Pk: 596-09665 / Metal 5-Pk: 596-00833

**PHOTOVOLTAIC DC DISCONNECT**  
NEC 690.13(B) / Roll: 596-00237 / 10-Pk: 596-00853

PHOTOVOLTAIC AC DISCONNECT	PHOTOVOLTAIC AC DISCONNECT
Hand-writable 5-Pk: 596-00841	Engravable 5-Pk: 596-00857

**WARNING**  
**ELECTRICAL SHOCK HAZARD**  
THIS EQUIPMENT FED BY MULTIPLE SOURCES: TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN POWER SUPPLY SHALL NOT EXCEED AMPACITY OF BUSBAR  
NEC 705.12(B)(3)(3) / Roll: 596-01000  
10-Pk: 596-01008

### 8 BREAKER PANEL / PULL BOXES

**WARNING**  
**ELECTRICAL SHOCK HAZARD**  
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION  
NEC 706.15 (c)(4) & NEC 690.13(B)  
Roll: 596-00878 / 10-Pk: 596-00893  
Metal 5-Pk: 596-0092

**WARNING**  
**TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL**  
NEC 110.27(C) & OSHA 1910.145(f)(7)  
Roll: 596-00499 / 10-Pk: 596-00664  
Metal 5-Pk: 596-00832

**PHOTOVOLTAIC AC DISCONNECT**  
**RATED AC OUTPUT CURRENT:** 60A  
**NOMINAL OPERATING AC VOLTAGE:** 240V  
NEC 690.54 / Roll: 596-00892 / 10-Pk: 596-00882

PHOTOVOLTAIC AC DISCONNECT	PHOTOVOLTAIC AC DISCONNECT
Hand-writable 5-Pk:596-00919	Engravable 5-Pk:596-00923

### 7 AC DISCONNECT / BREAKER / POINTS OF CONNECTION

**PHOTOVOLTAIC AC DISCONNECT**  
**RATED AC OUTPUT CURRENT:** 33.88 A  
**NOMINAL OPERATING AC VOLTAGE:** 240V  
NEC 690.54 / Roll: 596-00892 / 10-Pk: 596-00882

PHOTOVOLTAIC AC DISCONNECT	PHOTOVOLTAIC AC DISCONNECT
Hand-writable 5-Pk:596-00919	Engravable 5-Pk:596-00923

**WARNING**  
**ELECTRICAL SHOCK HAZARD**  
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION  
NEC 706.15 (C)(4) & NEC 690.13(B)  
Roll: 596-00878 / 10-Pk: 596-00893  
Metal 5-Pk: 596-00921

### 9 MAIN SERVICE DISCONNECT

**WARNING**  
**ELECTRICAL SHOCK HAZARD**  
TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION  
NEC 706.15 (c)(4) & NEC 690.13(B)  
Roll: 596-00878 / 10-Pk: 596-00893  
Metal 5-Pk: 596-0092

**WARNING**  
**TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL**  
NEC 110.27(C) & OSHA 1910.145(f)(7)  
Roll: 596-00499 / 10-Pk: 596-00664  
Metal 5-Pk: 596-00832

**WARNING**  
**SINGLE 120-VOLT SUPPLY DO NOT CONNECT MULTIWIRE BRANCH CIRCUITS**  
NEC 710.15(C) & 692.9 (C) / Roll: 596-00591  
10-Pk: 596-00699 / Metal 5-Pk: 596-00837

**DO NOT DISCONNECT UNDER LOAD**  
NEC 690.15 (B) & NEC 690.33(D)(2)  
Roll: 596-00244 / 10-Pk: 596-00671

**CAUTION**  
**PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFED**  
NEC 705.12(D) & NEC 690.59  
Roll: 596-00587 / 10-Pk: 596-00666  
Metal 5-Pk: 596-00834

**WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM**  
NEC 705.12(C) & NEC 690.59 / Roll: 596-00495  
10-Pk: 596-00665 / Metal 5-Pk: 596-00833

**WARNING**  
**POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.**  
NEC 705.12 (B)(3)(2) / Roll: 596-00883  
10-Pk: 596-00884 / Metal 5-Pk: 596-00917

**MAIN PHOTOVOLTAIC SYSTEM DISCONNECT**  
NEC 690.13(B) / Roll: 596-00243  
10-Pk: 596-00675 / Metal 5-Pk: 596-00860

### 10.Main Service Disconnect / Utility Meter

**MAIN PHOTOVOLTAIC SYSTEM DISCONNECT**  
NEC 690.13(B) / Roll: 596-00243  
10-Pk: 596-00675 / Metal 5-Pk: 596-00860

### 11.ENERGY STORAGE SYSTEMS

**NOMINAL ESS AC VOLTAGE:** \_\_\_\_\_  
**MAX RATED ESS DC VOLTAGE:** \_\_\_\_\_  
**RATED AC OPERATING VOLTAGE:** #####A  
**AVAILABLE FAULT CURRENT DRIVEN FROM THE ESS:** 240V  
**DATE CALCULATION PERFORMED:** \_\_\_\_\_  
NEC 706.15(C) / Roll:596-00997 / 10-Pk: 596-01005

**WARNING**  
**FUEL CELL POWER SYSTEM CONTAINS ENERGY STORAGE DEVICES**  
NEC 692.56 / Roll: 596-01002 / 10-Pk: 596-01010

**ENERGY STORAGE SYSTEM DISCONNECT**  
NEC 706.15(C) / Roll: 596-01004 / 10-Pk: 596-01041