

SYSTEM SUMMARY					MODULES										
	BRANCH #1	BRANCH #2	BRANCH #3	BRANCH #4	REF.	QTY.	MAKE AND MODEL	PMAX	PTC	ISC	IMP	VOC	VMP	TEMP. COEFF. OF VOC	FUSE RATING
INVERTERS PER BRANCH	10	8	8	8	PM1-34	34	JINKO	375W	344.90W	9.68A	9.33A	48.70V	9.33V	-0.141V/°C (-0.29%/°C)	20A
MAX AC CURRENT	12.10A	9.68A	9.68A	9.68A											
MAX AC OUTPUT POWER	2,900W	2,320W	2,320W	2,320W											
ARRAY STC POWER	12,750W														
ARRAY PTC POWER	11,727W														
MAX AC CURRENT	41.14A														
MAX AC POWER	9,860W														
DERATED (CEC) AC POWER	9,860W														
					INVERTERS										
	REF.	QTY	MAKE AND MODEL	AC VOLTAGE	GROUND	OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	MAX INPUT CURRENT	MAX INPUT VOLTAGE	CEC WEIGHTED EFFICIENCY				
	I1-34	34	ENPHASE IQ7PLUS-72-2-US	240A	FLOATING	20A	290W	1.21A	20A	60V	97.0%				
					DISCONNECTS							OCPDS			
	REF.	QTY.	MAKE AND MODEL	RATED CURRENT		MAX RATED VOLTAGE		REF.	QTY	RATED CURRENT		MAX VOLTAGE			
	SW1	1	SQUARE D D222NRB	60A		240V		CB1-4	4	20A		240V			
								CB5	1	15A		240V			
								FU1-2	2	60A		240V			
ASHRAE EXTREME LOW			33.7°C (92.7°F), SOURCE: ESSEX CO (-74.28°; 40.88°)												
ASHRAE 2% HIGH			33.7°C (92.7°F), SOURCE: ESSEX CO (-74.28°; 40.88°)												

BILL OF MATERIAL							
CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION
PV MODULE	JINKO		PM1-34	34	PIECE	1	
INVERTER	ENPHASE	IQ7PLUS-72-2-US	I1-34	34	PIECE	1	ENPHASE IQ7PLUS-72-2-US 290W MICROINVERTER
DISCONNECT	SQUARE D	D222NRB	SW1	1	PIECE	1	SQUARE D D222NRB, FUSED, 2-POLE, 60A, 240VAC, NEMA 3R OR EQUIVALENT
AC COMBINER PANEL	ENPHASE	IQ COMBINER 3-ES	EP1	1	PIECE	1	ENPHASE IQ COMBINER 3-ES 125A COMBINER PANEL
PRODUCTION METER	GENERIC	GENERIC PV METER	PVM1	1	PIECE	1	GENERIC PV METER
MONITORING	ENPHASE	ENPHASE-ENVOY	ENV1	1	PIECE	1	ENPHASE ENVOY
WIRING	GENERIC	Q-12-10-240	WR1	145	FEET	1	ENPHASE Q-CABLE
WIRING	GENERIC	GEN-6-AWG-BARE-CU	WR1	145	FEET	1	6 AWG BARE, COPPER (GROUND)
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-RD	WR2	10	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-BLK	WR2	10	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-GR	WR2	10	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING	GENERIC	GEN-4-AWG-THWN-2-CU-RD	WR3-5	30	FEET	1	4 AWG THWN-2, COPPER, RED (LINE 1)
WIRING	GENERIC	GEN-4-AWG-THWN-2-CU-BLK	WR3-5	30	FEET	1	4 AWG THWN-2, COPPER, BLACK (LINE 2)
WIRING	GENERIC	GEN-4-AWG-THWN-2-CU-GR	WR3-5	30	FEET	1	4 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING	GENERIC	GEN-4-AWG-THWN-2-CU-WH	WR3-5	30	FEET	1	4 AWG THWN-2, COPPER, WHITE (NEUTRAL)
WIREWAY	GENERIC	GEN-EMT-0.5"-DIA	WW2	10	FEET	1	EMT CONDUIT 0.5" DIA
WIREWAY	GENERIC	GEN-EMT-1.0"-DIA	WW3-5	30	FEET	1	EMT CONDUIT 1.0" DIA
OCPD	GENERIC	GEN-CB-20A-240VAC	CB1-4	4	PIECES	1	CIRCUIT BREAKER, 20A, 240VAC
OCPD	GENERIC	GEN-CB-15A-240VAC	CB5	1	PIECE	1	CIRCUIT BREAKER, 15A, 240VAC
OCPD	GENERIC	GEN-FU-60A-240VAC	FU1-2	2	PIECES	1	FUSE, 60A, 240VAC
TRANSITION ENCLOSURE	GENERIC	GEN-AWB-TB-4-4X	JB1	1	PIECE	1	TRANSITION/PASS-THROUGH BOX, WITH 4 TERMINAL BLOCKS



CONTRACTOR

STRAWBERRY SOLAR

PHONE: (313)-960-7900

ADDRESS: 4444 2ND AVENUE WAYNE
COUNTY DETROIT, MI 48201

LIC.NO.: 2101211279

HIC.NO.:

ELE.NO.:

UNAUTHORIZED USE OF THIS
DRAWING SET WITHOUT WRITTEN
PERMISSION FROM CONTRACTOR IS IN
VIOLATION OF U.S. COPYRIGHT LAWS
AND WILL BE SUBJECT TO CIVIL
DAMAGES AND PROSECUTIONS.

NEW PV SYSTEM: 12750.0 KWP

BARONE
RESIDENCE

31 SCUDDERS ROAD
SPARTA TOWNSHIP,
NJ 07871

APN: 1826001000000004

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

ELECTRICAL PLAN

DATE: 2023-08-05

DESIGN BY: N. Kinareiev

CHECKED BY: UKRDRAFTING

REVISIONS

