

SYSTEM SUMMARY				MODULES														
	BRANCH #1	BRANCH #2	BRANCH #3	REF.	QTY.	MAKE AND MODEL	PMAX	PTC	ISC	IMP	VOC	VMP	TEMP. COEFF. OF VOC	FUSE RATING				
INVERTERS PER BRANCH	2	3	2	PM1-7	7	HELIENE 60MBLK HOME PV 300	300W	277.20W	10.10A	9.56A	39.63V	9.56V	-0.143V/°C (-0.36%/°C)	20A				
				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				
MAX AC CURRENT	2.42A	3.63A	2.42A	I1-7	7	ENPHASE IQ7PLUS-72-2-US	240A	FLOATING	20A	290W	1.21A	20A	60V	97.0%				
MAX AC OUTPUT POWER	580W	870W	580W					DISCONNECTS							OCPDS			
ARRAY STC POWER	2,100W			REF.	QTY.	MAKE AND MODEL	RATED CURRENT		MAX RATED VOLTAGE		REF.	QTY	RATED CURRENT	MAX VOLTAGE				
ARRAY PTC POWER	1,940W			SW1	1	SQUARE D DU222RB	60A		240V		CB1-3	3	10A	240V				
MAX AC CURRENT	8.47A			SW2	1	SQUARE D D222NRB	60A		240V		CB4-5	2	15A	240V				
MAX AC POWER	2,030W											FU1-2	2	15A	240V			
DERATED (CEC) AC POWER	1,882W																	
				ASHRAE EXTREME LOW		-20.6°C (-5.1°F), SOURCE: VANCE AFB (-97.99°; 36.34°)												
				ASHRAE 2% HIGH		38°C (100.4°F), SOURCE: VANCE AFB (-97.99°; 36.34°)												
BILL OF MATERIAL																		
CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION											
PV MODULE	HELIENE	60MBLK HOME PV 300	PM1-7	7	PIECE	1	HELIENE 60MBLK HOME PV 300, 300W, 60 CELLS MONOCRYSTALLINE SILICON											
INVERTER	ENPHASE	IQ7PLUS-72-2-US	I1-7	7	PIECE	1	ENPHASE IQ7PLUS-72-2-US 290W MICROINVERTER											
DISCONNECT	SQUARE D	DU222RB	SW1	1	PIECE	1	SQUARE D DU222RB, NON-FUSED, 2-POLE, 60A, 240VAC, NEMA 3R OR EQUIVALENT											
DISCONNECT	SQUARE D	D222NRB	SW2	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											
MONITORING	ENPHASE	ENPHASE-ENVOY	ENV1	1	PIECE	1	ENPHASE ENVOY											
WIRING	GENERIC	GEN-12-AWG-THWN-2-CU-RD&BLK	WR1	13	FEET	1	ENPHASE Q-CABLE											
WIRING	GENERIC	GEN-6-AWG-16-CU-GR	WR1	13	FEET	1	6 AWG 16, COPPER, GREEN (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-10-AWG-THWN-2-CU-RD	WR3-5	30	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)											
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-BLK	WR3-5	30	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)											
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-GR	WR3-5	30	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)											
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-WH	WR3-5	30	FEET	1	10 AWG THWN-2, COPPER, WHITE (NEUTRAL)											
WIREWAY	GENERIC	GEN-EMT-0.622"-DIA	WW2-5	40	FEET	1	EMT CONDUIT 0.622" DIA											
OCPD	GENERIC	GEN-CB-10A-240VAC	CB1-3	3	PIECES	1	CIRCUIT BREAKER, 10A, 240VAC											
OCPD	GENERIC	GEN-CB-15A-240VAC	CB4-5	2	PIECES	1	CIRCUIT BREAKER, 15A, 240VAC											
OCPD	GENERIC	GEN-FU-15A-240VAC	FU1-2	2	PIECES	1	FUSE, 15A, 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.:

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NEW PV SYSTEM: 2100.0 KWP

PIERCE RESIDENCE

206 5TH STREET KREMLIN, OK 73753

APN: 643000011001004000

ENGINEER OF RECORD

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

ELECTRICAL PLAN

DATE: 2023-01-05

DESIGN BY: STRAWBERRY SOLAR

CHECKED BY: UKRDRAFTING

REVISIONS

A-102 (SHEET 1)

