

SYSTEM SUMMARY			MODULES										
	BRANCH #1	BRANCH #2	REF.	QTY.	MAKE AND MODEL	PMAX	PTC	ISC	IMP	VOC	VMP	TEMP. COEFF. OF VOC	FUSE RATING
INVERTERS PER BRANCH	8	8	PM1-16	16	HANWHA Q-CELLS Q.PEAK DUO BLK ML-G10+ 400	400W	371.50W	11.14A	10.77A	45.30V	10.77V	-0.122V/°C (-0.27%/°C)	20A
MAX AC CURRENT	11.60A	11.60A											
MAX AC OUTPUT POWER	2,792W	2,792W											
ARRAY STC POWER	6,400W												
ARRAY PTC POWER	5,944W												
MAX AC CURRENT	23.20A												
MAX AC POWER	5,584W												
DERATED (CEC) AC POWER	5,584W												
			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			
I1-16	16	ENPHASE IQ8A-72-2-US	240A	FLOATING	20A	349W	1.45A	15A	60V	97.5%			
			DISCONNECTS							OCPDS			
REF.	QTY.	MAKE AND MODEL	RATED CURRENT		MAX RATED VOLTAGE								
SW1	1	SQUARE D DU221RB	30A		240V								
			ASHRAE EXTREME LOW		32.2°C (90°F), SOURCE: FLINTBISHOP INTL (-83.75°; 42.97°)								
			ASHRAE 2% HIGH		32.2°C (90°F), SOURCE: FLINTBISHOP INTL (-83.75°; 42.97°)								
BILL OF MATERIAL													
CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION						
PV MODULE	HANWHA Q-CELLS	Q.PEAK DUO BLK ML-G10+ 400	PM1-16	16	PIECE	1	HANWHA Q-CELLS Q.PEAK DUO BLK ML-G10+ 400 400.0W, 6 × 22 MONOCRYSTALLINE Q.ANTUM SOLAR HALF CELLS						
INVERTER	ENPHASE	IQ8A-72-2-US	I1-16	16	PIECE	1	ENPHASE IQ8A-72-2-US 349W MICROINVERTER						
DISCONNECT	SQUARE D	DU221RB	SW1	1	PIECE	1	SQUARE D DU221RB, NON-FUSED, 2-POLE, 30A, 240VAC, NEMA 3R OR EQUIVALENT						
AC COMBINER PANEL	ENPHASE	IQ COMBINER 4	EP1	1	PIECE	1	ENPHASE IQ COMBINER 4 125A COMBINER PANEL						
MONITORING	ENPHASE	ENPHASE-ENVOY	ENV1	1	PIECE	1	ENPHASE ENVOY						
WIRING	GENERIC	Q-12-10-240	WR1	68	FEET	1	ENPHASE Q-CABLE						
WIRING	GENERIC	GEN-6-AWG-BARE-CU	WR1	68	FEET	1	6 AWG BARE, COPPER (GROUND)						
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-RD	WR2-4	30	FEET	1	10 AWG THWN-2, COPPER, RED (LINE 1)						
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-BLK	WR2-4	30	FEET	1	10 AWG THWN-2, COPPER, BLACK (LINE 2)						
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-GR	WR2-4	30	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)						
WIRING	GENERIC	GEN-10-AWG-THWN-2-CU-WH	WR3-4	20	FEET	1	10 AWG THWN-2, COPPER, WHITE (NEUTRAL)						
WIREWAY	GENERIC	GEN-EMT-0.5"-DIA	WW2-4	30	FEET	1	EMT CONDUIT 0.5" DIA						
OCPD	GENERIC	GEN-CB-15A-240VAC	CB1-3	3	PIECES	1	CIRCUIT BREAKER, 15A, 240VAC						
OCPD	GENERIC	GEN-CB-30A-240VAC	CB4	1	PIECE	1	CIRCUIT BREAKER, 30A, 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
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LIC.NO.: 2101211279

HIC.NO.:

ELE.NO.: _____

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NEW PV SYSTEM: 6400.0 KWP

**JO AND
WILLIAMS
RESIDENCE**
6380 EASTSIDE TRAIL, UNIT 1
TOWNSHIP,
MI 48532
APN: 0707-507-008

ENGINEER OF RECORD

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

ELECTRICAL PLAN

DATE: 2023-08-04

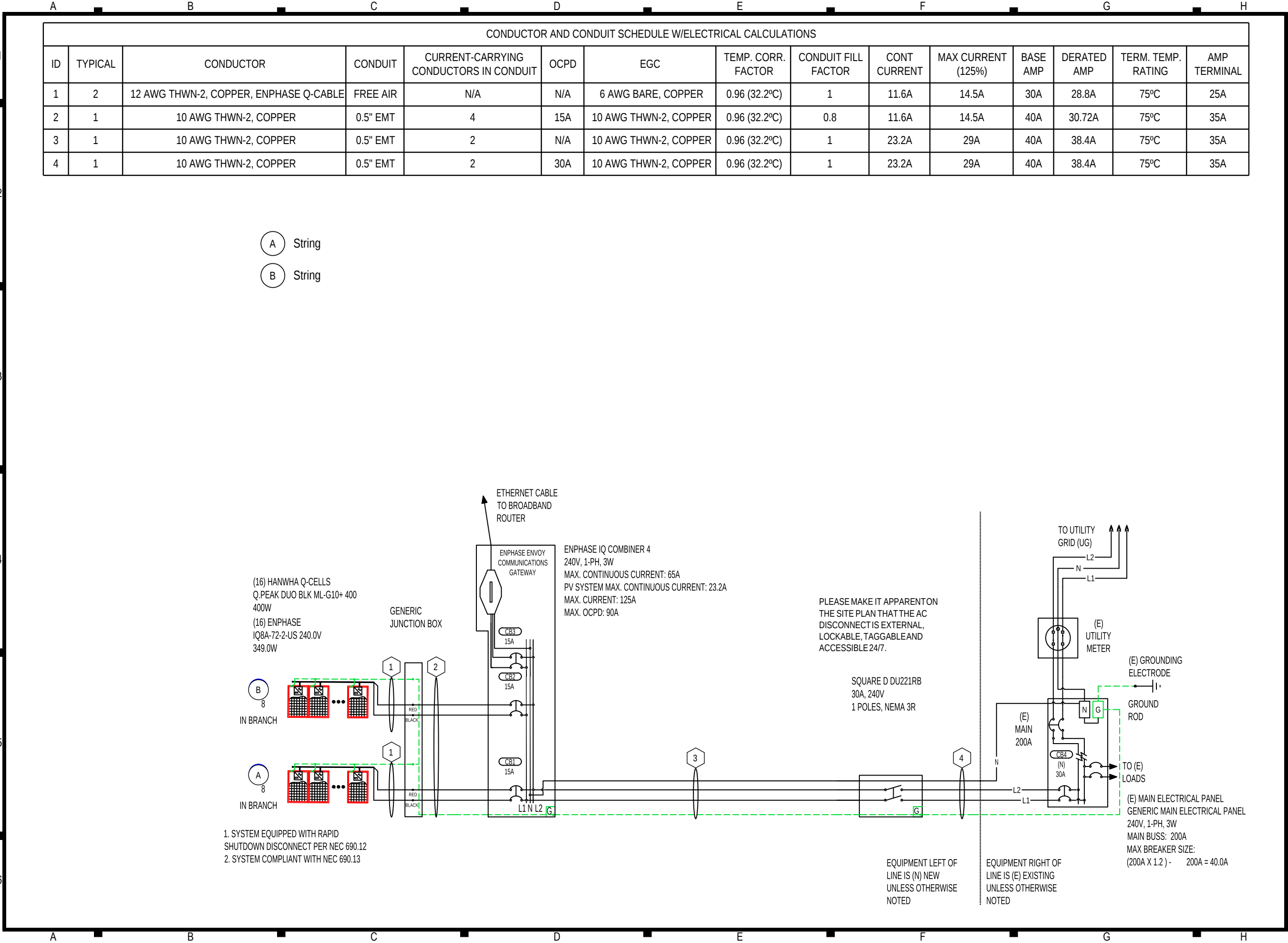
DESIGN BY: N. Kinareiev

CHECKED BY: UKRDRAFTING

REVISIONS

A-102

(SHEET 1)



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

LINE DIAGRAM

DATE: 2023-08-04

DESIGN BY: N. Kinareiev

CHECKED BY: UKRDRAFTING

REVISIONS

E-601

(SHEET 2)