

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	INVERTERS													
MAX AC OUTPUT POWER	2,792W	2,792W	REF.	QTY	MAKE AND MODEL	AC VOLTAGE	GROUND	OCPD RATING	RATED POWER	MAX OUTPUT CURRENT	MAX INPUT CURRENT	MAX INPUT VOLTAGE	CEC WEIGHTED EFFICIENCY			
ARRAY STC POWER	6,400W		I1-16	16	ENPHASE IQ8A-72-2-US	240A	FLOATING	20A	349W	1.45A	15A	60V	97.5%			
ARRAY PTC POWER	5,944W		DISCONNECTS													
MAX AC CURRENT	23.20A		REF.	QTY.	MAKE AND MODEL	RATED CURRENT	MAX RATED VOLTAGE	OCPDS								
MAX AC POWER	5,584W		SW1	1	SQUARE D DU221RB	30A	240V	REF.	QTY	RATED CURRENT	MAX VOLTAGE					
DERATED (CEC) AC POWER	5,584W		ASHRAE EXTREME LOW				32.2°C (90°F), SOURCE: FLINTBISHOP INTL (-83.75°; 42.97°)				CB1-3			3	15A	240V
			ASHRAE 2% HIGH				32.2°C (90°F), SOURCE: FLINTBISHOP INTL (-83.75°; 42.97°)				CB4			1	30A	240V

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 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: 9200.0 KWP

JO&WILLIAM S;
6300 EAST 14TH AVENUE
RESIDENCE
TOWNSHIP, MI 48532
APN: 0707-507-008

ENGINEER OF RECORD

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

ELECTRICAL PLAN

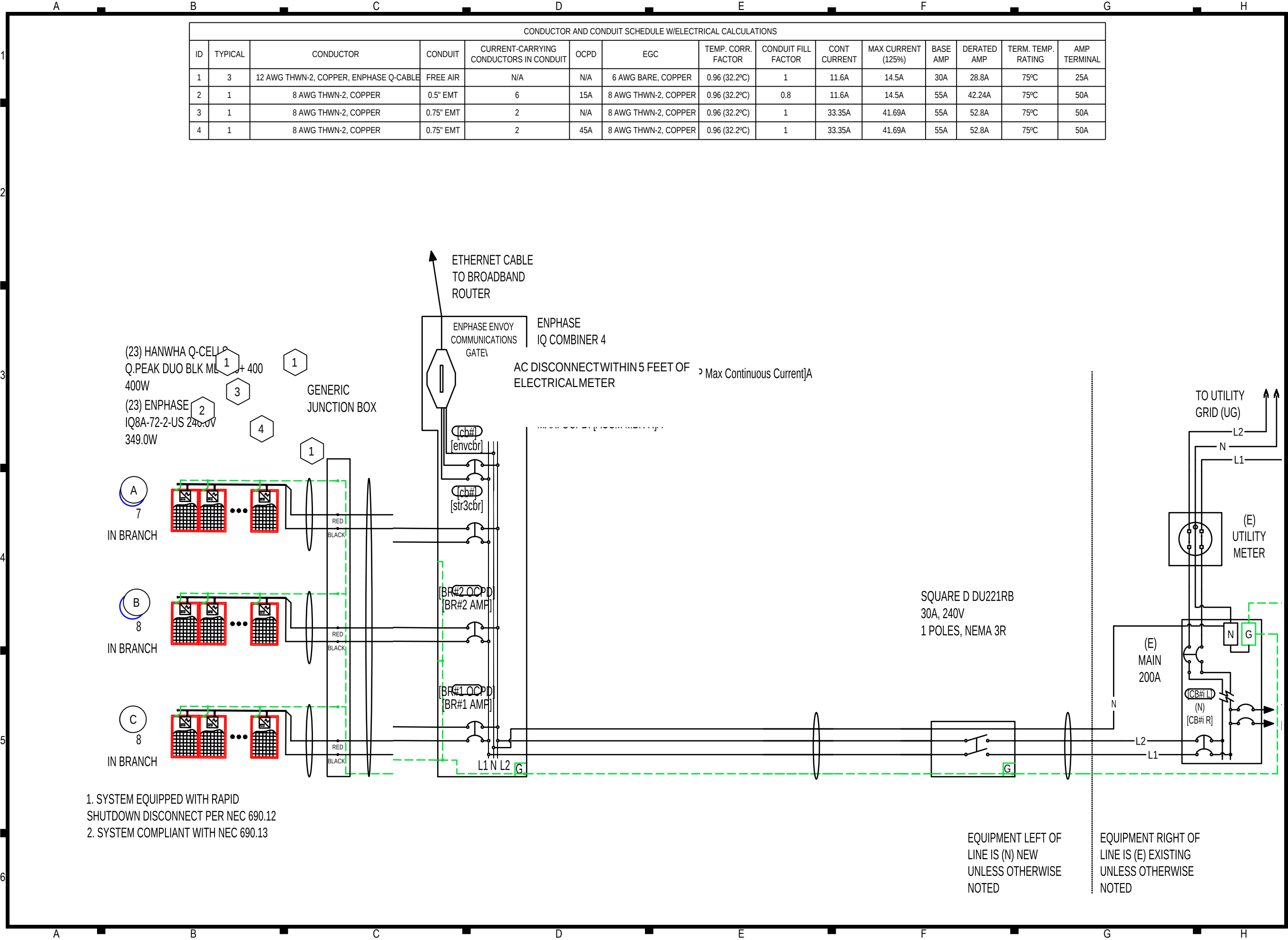
DATE: 2023-09-12

DESIGN BY: M. Baburin

CHECKED BY: UKRDRAFTING

REVISIONS

A-102
(SHEET 1)



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LINE DIAGRAM

DATE: 2023-09-12

DESIGN BY: M. Baburin

CHECKED BY: UKRDRAFTING

REVISIONS

E-601

(SHEET 2)