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HANWHA Q.PEAK DUO BLK ML-G10+ 410
410 WATT MODULE
74" X 41.1" X 1.26"
(SEE DATASHEET)

BILL OF MATERIALS	
MODULES	30
INVERTERS	30
COUPLING ASSEMBLY	38
ENPHASE COMBINER BOX	1
EATON 60A FUSIBLE AC DISCONNECT	3
50A FUSES	6
125A LINE TAPS	2

SYSTEM INFORMATION	
MODULE	HANWHA Q.PEAK DUO BLK ML-G10+ 410
INVERTER	ENPHASE IQ8PLUS-72-2-US
RACKING	IRONRIDGE GROUND MOUNT
SYSTEM SIZE (DC)	12.3 KW
LOCATION	30.1320072,-82.5985021

GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-22, 8TH EDITION 2023 FLORIDA RESIDENTIAL CODE, 8TH EDITION 2023 FLORIDA BUILDING CODE, 8TH EDITION 2023 FLORIDA FIRE PREVENTION CODE, NEC 2020 AND ALL LOCAL CODES & ORDINANCES.

ALL DESIGN, CALCULATIONS ARE PERFORMED BY DANIEL DUNZIK REGISTERED ARCHITECT. FLORIDA STATE STATUTE 471.003(3) PROVIDES THAT LICENSED ARCHITECTS ARE EXEMPTED FROM THE PROVISIONS OF CHAPTER 471 ENGINEERING AND NOT PRECLUDED FROM PERFORMING ENGINEERING SERVICES FOR INTEGRATED SYSTEMS AND SERVICES THAT ARE INCIDENTAL TO BUILDINGS AND STRUCTURES.

INVERTER PLACEMENT:

SYSTEM UTILIZES "ENPHASE" MICRO-INVERTERS WITH RAPID SHUTDOWN CONTROL LOCATED ON THE BACK SIDE OF EACH MODULE.

CLIMATIC & GEOGRAPHIC DESIGN CRITERIA TABLE R301.2(1)	
SPEED (MPH)	140
TOPOGRAPHIC EFFECTS	B
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	C
CLIMATE ZONE	2A
WIND EXPOSURE CATETORY	B

FBC, RESIDENTIAL 2020

TABLE R301.2.1.3												
WIND SPEED CONVERSIONS ^a												
V _{ult}	110	115	120	130	140	150	160	170	180	190	200	
V _{asd}	85	89	93	101	108	116	124	132	139	147	155	

For SI: 1 mile per hour = 0.447 m/s.

- a. Linear interpolation is permitted.



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PV SYSTEM
INFORMATION

SYSTEM SIZE (DC): 12.3 KW
30 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 410
30 INVERTERS: ENPHASE IQ8PLUS-72-2-US

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COVER PAGE

PV-1



DATA SHEET



IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the Included O-DCC-2 adapter cable with plug-n-play MC4 connectors.



IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

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IQ8SP-DS-0002-01-EN-US-2022-03-17

Easy to install

- Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down*
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

- Complies with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) requirements

* Only when installed with IQ System Controller 2, meets UL 1741.

** IQ8 and IQ8Plus supports split phase, 240V installations only.

IQ8 and IQ8+ Microinverters

INPUT DATA (DC)		IQ8-80-2-US	IQ8PLUS-72-2-US
Commonly used module pairings ¹	W	235 – 350	235 – 440
Module compatibility		60-cell/120 half-cell	60-cell/120 half-cell, 66-cell/132 half-cell and 72-cell/144 half-cell
MPPT voltage range	V	27 – 37	29 – 45
Operating range	V	25 – 48	25 – 58
Min/max start voltage	V	30 / 48	30 / 58
Max input DC voltage	V	50	60
Max DC current ² [module Isc]	A		15
Overvoltage class DC port			II
DC port backfeed current	mA		0
PV array configuration		1x1 Ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit	
OUTPUT DATA (AC)		IQ8-80-2-US	IQ8PLUS-72-2-US
Peak output power	VA	245	300
Max continuous output power	VA	240	290
Nominal (L-L) voltage/range ³	V	240 / 211 – 264	
Max continuous output current	A	1.0	1.21
Nominal frequency	Hz	60	
Extended frequency range	Hz	50 – 68	
AC short circuit fault current over 3 cycles	Arms	2	
Max units per 20 A (L-L) branch circuit ⁴		16	13
Total harmonic distortion		<5%	
Overvoltage class AC port		III	
AC port backfeed current	mA	30	
Power factor setting		1.0	
Grid-tied power factor (adjustable)		0.85 leading – 0.85 lagging	
Peak efficiency	%	97.5	97.6
CEC weighted efficiency	%	97	97
Night-time power consumption	mW	60	
MECHANICAL DATA			
Ambient temperature range		-40°C to +60°C (-40°F to +140°F)	
Relative humidity range		4% to 100% (condensing)	
DC Connector type		MC4	
Dimensions (HxWxD)		212 mm (8.3") x 175 mm (6.9") x 30.2 mm (1.2")	
Weight		1.08 kg (2.38 lbs)	
Cooling		Natural convection – no fans	
Approved for wet locations		Yes	
Pollution degree		PD3	
Enclosure		Class II double-insulated, corrosion resistant polymeric enclosure	
Environ. category / UV exposure rating		NEMA Type 6 / outdoor	
COMPLIANCE			
Certifications		CA Rule 21 (UL 1741-SA), UL 62106-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-2.8 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.	

(1) No enforced DC/AC ratio. See the compatibility calculator at <https://link.enphase.com/module-compatibility>

(2) Maximum continuous input DC current is 10.6A (3) Nominal voltage range can be extended beyond nominal if required by the utility. (4) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

IQ8SP-DS-0002-01-EN-US-2022-03-17



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30 INVERTERS: ENPHASE
IQ8PLUS-72-2-US

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INVERTER SPECS

PV-1.1

IQ Combiner 4/4C



To learn more about Enphase offerings, visit enphase.com
IQ-C-4-4C-DS-0103-EN-US-12-29-2022



The **IQ Combiner 4/4C** with IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure. It streamlines IQ Microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and Eaton BR series busbar assembly.

Smart

- Includes IQ Gateway for communication and control
- Includes Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), included only with IQ Combiner 4C
- Includes solar shield to match Enphase IQ Battery aesthetics and deflect heat
- Supports Wi-Fi, Ethernet, or cellular connectivity
- Optional AC receptacle available for PLC bridge
- Provides production metering and consumption monitoring

Simple

- Mounts on single stud with centered brackets
- Supports bottom, back and side conduit entry
- Allows up to four 2-pole branch circuits for 240VAC plug-in breakers (not included)
- 80A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Five-year limited warranty
- Two years labor reimbursement program coverage included for both the IQ Combiner SKU's
- UL listed
- X2-IQ-AM1-240-4 and X2-IQ-AM1-240-4C comply with IEEE 1547:2018 (UL 1741-SB, 3rd Ed.)

IQ Combiner 4/4C

MODEL NUMBER	
IQ Combiner 4 X-IQ-AM1-240-4 X2-IQ-AM1-240-4 (IEEE 1547:2018)	IQ Combiner 4 with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 ± 0.5%) and consumption monitoring (± 2.5%). Includes a silver solar shield to match the IQ Battery and IQ System Controller 2 and to deflect heat.
IQ Combiner 4C X-IQ-AM1-240-4C X2-IQ-AM1-240-4C (IEEE 1547:2018)	IQ Combiner 4C with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 ± 0.5%) and consumption monitoring (± 2.5%). Includes Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), a plug-and-play industrial-grade cell modem for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.) Includes a silver solar shield to match the IQ Battery and IQ System Controller and to deflect heat.
ACCESSORIES AND REPLACEMENT PARTS (not included, order separately)	
Supported microinverters	IQ6, IQ7, and IQ8. (Do not mix IQ6/7 Microinverters with IQ8)
Communications Kit COMMS-CELLMODEM-M1-06 CELLMODEM-M1-06-SP-05 CELLMODEM-M1-06-AT-05	- Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with 5-year Sprint data plan - 4G based LTE-M1 cellular modem with 5-year Sprint data plan - 4G based LTE-M1 cellular modem with 5-year AT&T data plan
Circuit Breakers BRK-10A-2-240V BRK-15A-2-240V BRK-20A-2P-240V BRK-15A-2P-240V-B BRK-20A-2P-240V-B	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers. Circuit breaker, 2 pole, 10A, Eaton BR210 Circuit breaker, 2 pole, 15A, Eaton BR215 Circuit breaker, 2 pole, 20A, Eaton BR220 Circuit breaker, 2 pole, 15A, Eaton BR215B with hold down kit support Circuit breaker, 2 pole, 20A, Eaton BR220B with hold down kit support
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 4/4C
XA-PLUG-120-3	Accessory receptacle for Power Line Carrier in IQ Combiner 4/4C (required for EPLC-01)
X-IQ-NA-HD-125A	Hold-down kit for Eaton circuit breaker with screws
Consumption monitoring CT (CT-200-SPLIT/CT-200-CLAMP)	A pair of 200A split core current transformers
ELECTRICAL SPECIFICATIONS	
Rating	Continuous duty
System voltage	120/240VAC, 60 Hz
Eaton BR series busbar rating	125A
Max. continuous current rating	65A
Max. continuous current rating (input from PV/storage)	64A
Max. fuse/circuit rating (output)	90A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. total branch circuit breaker rating (input)	80A of distributed generation/95A with IQ Gateway breaker included
IQ Gateway breaker	10A or 15A rating GE/Siemens/Eaton included
Production metering CT	200A solid core pre-installed and wired to IQ Gateway
MECHANICAL DATA	
Dimensions (WxHxD)	37.5 cm x 49.5 cm x 16.8 cm (14.75 in x 19.5 in x 6.63 in). Height is 53.5 cm (21.06 in) with mounting brackets.
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40°C to +46°C (-40°F to 115°F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	• 20A to 50A breaker inputs: 14 to 4 AWG copper conductors • 60A breaker branch input: 4 to 1/0 AWG copper conductors • Main lug combined output: 10 to 2/0 AWG copper conductors • Neutral and ground: 14 to 1/0 copper conductors • Always follow local code requirements for conductor sizing.
Altitude	Up to 3,000 meters (9,842 feet)
INTERNET CONNECTION OPTIONS	
Integrated Wi-Fi	IEEE 802.11b/g/n
Cellular	CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G based LTE-M1 cellular modem). Note that an Mobile Connect cellular modem is required for all Enphase Energy System installations.
Ethernet	Optional, IEEE 802.3, Cat5E (or Cat6) UTP Ethernet cable (not included)
COMPLIANCE	
Compliance, IQ Combiner	CA Rule 21 (UL 1741-SA) IEEE 1547:2018 - UL 1741-SB, 3 rd Ed. (X2-IQ-AM1-240-4 and X2-IQ-AM1-240-4C) CAN/CSA C22.2 No. 107.1, Title 47 CFR, Part 15, Class B, ICES 003 Production metering: ANSI C12.20 accuracy class 0.5 (PV production) Consumption metering: accuracy class 2.5
Compliance, IQ Gateway	UL 60601-1/CANCSA 22.2 No. 61010-1

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IQ-C-4-4C-DS-0103-EN-US-12-29-2022



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PV SYSTEM
INFORMATION

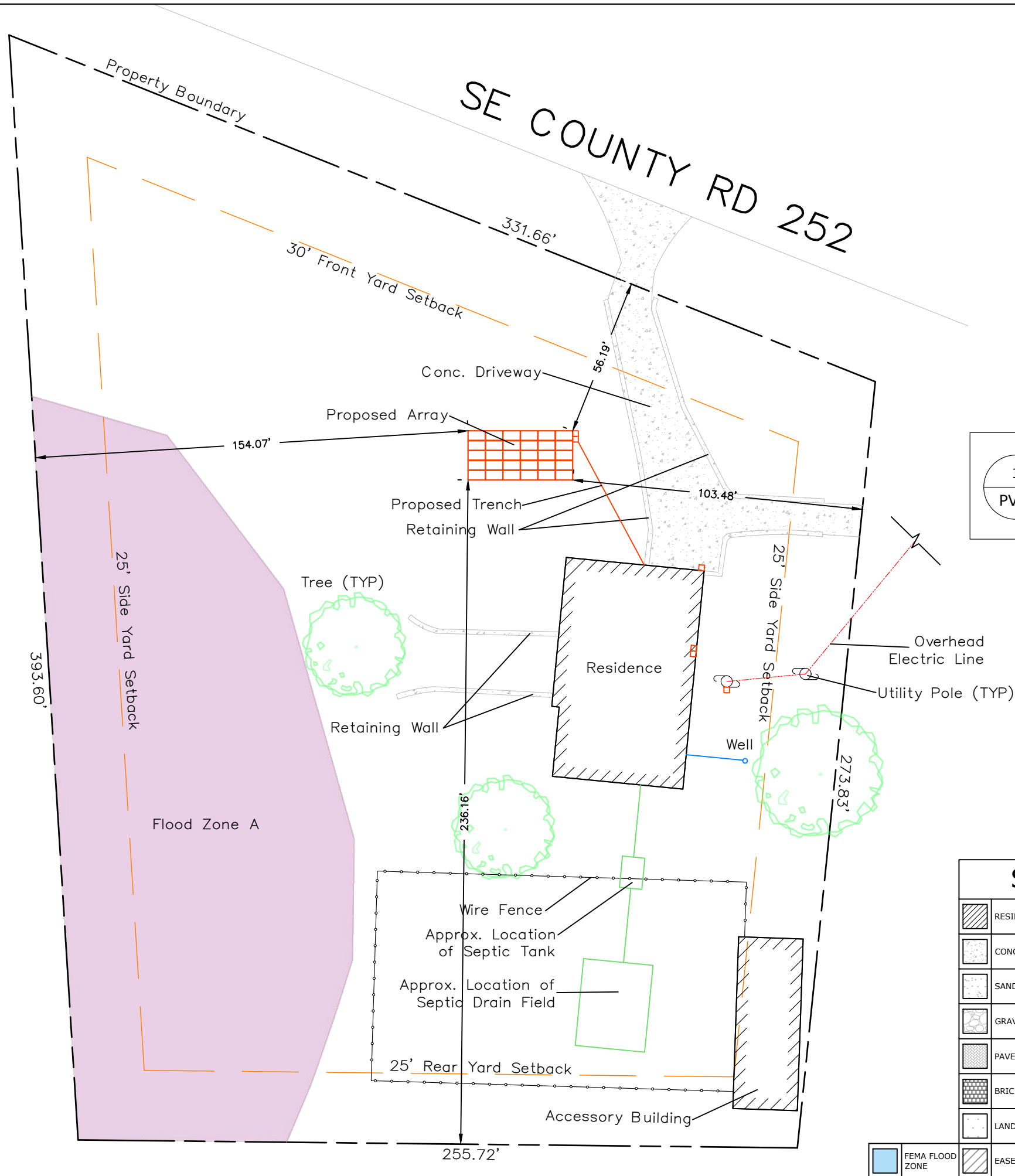
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30 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

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COMBINER SPECS

PV-1.2



1

PV-2

SITE PLAN

SCALE: 1'=40'

SYMBOL LEGEND			
	RESIDENCE		PROPERTY BOUNDARY
	CONCRETE		PROPERTY SETBACKS
	SAND		ELECTRICAL
	GRAVEL		SEWAGE/SEPTIC
	PAVERS		POTABLE WATER
	BRICK		GAS LINE
	LANDSCAPE		OVHRD POWER LINE
	EASEMENT		UNDG POWER LINE
	FENCE (METAL)		FENCE (WOOD)
	RECL. WATER		WATER VALVE
	WATER METER		WELL
	POWER POLE		GUY

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SITE PLAN

PV-2

ZONING DATA				
ZONING JURISDICTION:	COUNTY OF COLUMBIA, FL			
ZONING DISTRICT:	AGRICULTURAL: A-3			
ZONING ORDINANCE:	Sec. 4.5			
PROPOSED ACCESSORY USE:	GROUND MOUNT SOLAR ARRAY			
PROPOSED USE PERMITTED:	NOT EXPRESSLY PERMITTED			
PROPERTY DATA				
USE DESCRIPTION	RESIDENTIAL			
ACREAGE:	1.75			
SQUARE FOOTAGE:	76230.00			
PRINCIPAL BUILDING:	1-STORY DWELLING			
ACCESSORY STRUCTURES:	1- ACCESSORY BUILDING			
PROPOSED ACCESSORY. STR.:	1 SMALL GROUND SOLAR			
EXISTING LOT COVERAGE DATA				
STRUCTURE	SQFT	PERCENT		
PRINCIPAL STRUCTURE	3773	4.95%		
DRIVEWAY	3288	4.31%		
ACCESSORY BUILDING	1402.00	1.84%		
PROPOSED LOT COVERAGE DATA				
STRUCTURES	SQFT	PERCENT		
GROUND SOLAR ARRAY	650.00	0.85%		
PROPOSED TOTAL LOT COVERAGE DATA SUMMARY				
STRUCTURES	SQFT	PERCENT		
EXISTING PRINCIPAL STRUCTURE:	3773.00	4.95%		
EXISTING ACCESSORY STRUCTURES:	1402.00	1.84%		
EXISTING SURFACE COVERAGE:	3288.00	4.31%		
PROPOSED ACCESSORY STRUCTURES:	650.00	0.85%		
PROPOSED TOTAL LOT COVERAGE:	9113.00	11.95%		
AREA AND BULK REQUIREMENTS		REQUIRED	PROPOSED	COMPLIANCE
MINIMUM FRONT YARD SETBACK		30'	56.19'	YES
MINIMUM SIDE YARD SETBACK		25'	103.48'	YES
MINIMUM SIDE YARD SETBACK		25'	154.07'	YES
MINIMUM REAR YARD SETBACK		25'	236.16'	YES
MAXIMUM HEIGHT		35'	7.96'	YES
MAXIMUM BUILDING COVERAGE		20%	11.95%	YES



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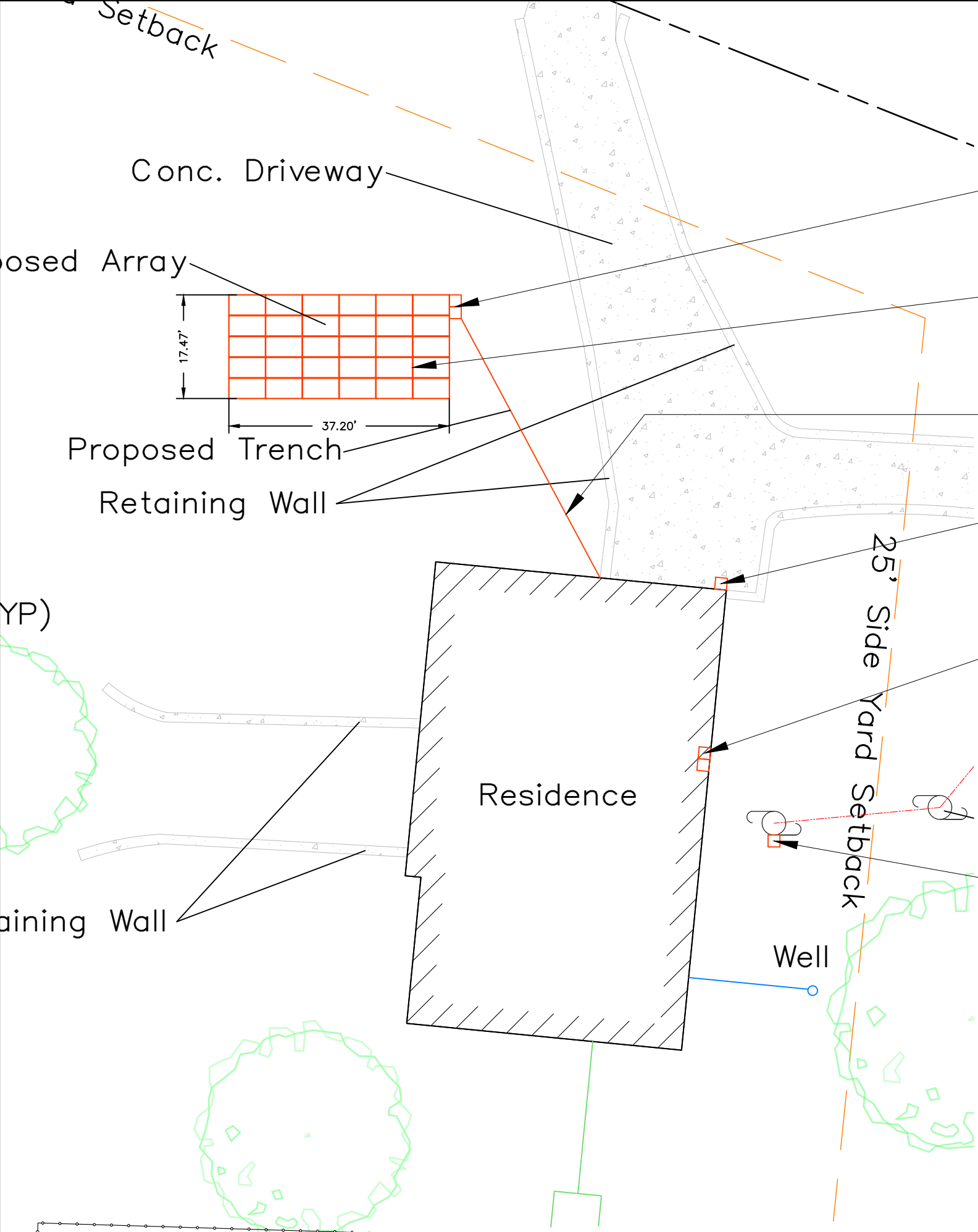
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ZONING INFORMATION

PV-2.1



ROOF	PANEL COUNT	TILT	AZIMUTH	SHADING
R1	30	20°	180°	91%

1

PV-2.1

PANEL LAYOUT

SCALE: 1'=20'

SYMBOL LEGEND

MSP	MAIN SERVICE PANEL
SP	SUB-PANEL
M	UTILITY METER
AC DISC	AC DISCONNECT
UDC	UTILITY DISCONNECT
LC	LOAD CENTER
N3R	NEMA 3R BOX W/ ENVOY-S
CB	COMBINER BOX
Module Symbol	MODULE

SYMBOL LEGEND					
Residence Symbol	RESIDENCE	Property Boundary Symbol	PROPERTY BOUNDARY	Fence (Metal) Symbol	FENCE (METAL)
Concrete Symbol	CONCRETE	Property Setbacks Symbol	PROPERTY SETBACKS	Fence (Wood) Symbol	FENCE (WOOD)
Sand Symbol	SAND	Electrical Symbol	ELECTRICAL	Recl. Water Symbol	RECL. WATER
Gravel Symbol	GRAVEL	Sewage/Septic Symbol	SEWAGE/SEPTIC	Water Valve Symbol	WATER VALVE
Pavers Symbol	PAVERS	Potable Water Symbol	POTABLE WATER	Water Meter Symbol	WATER METER
Brick Symbol	BRICK	Gas Line Symbol	GAS LINE	Well Symbol	WELL
Landscape Symbol	LANDSCAPE	Overhead Power Line Symbol	OVRHD POWER LINE	Power Pole Symbol	POWER POLE
Easement Symbol	EASEMENT	Underground Power Line Symbol	UNDG POWER LINE	Guy Symbol	GUY



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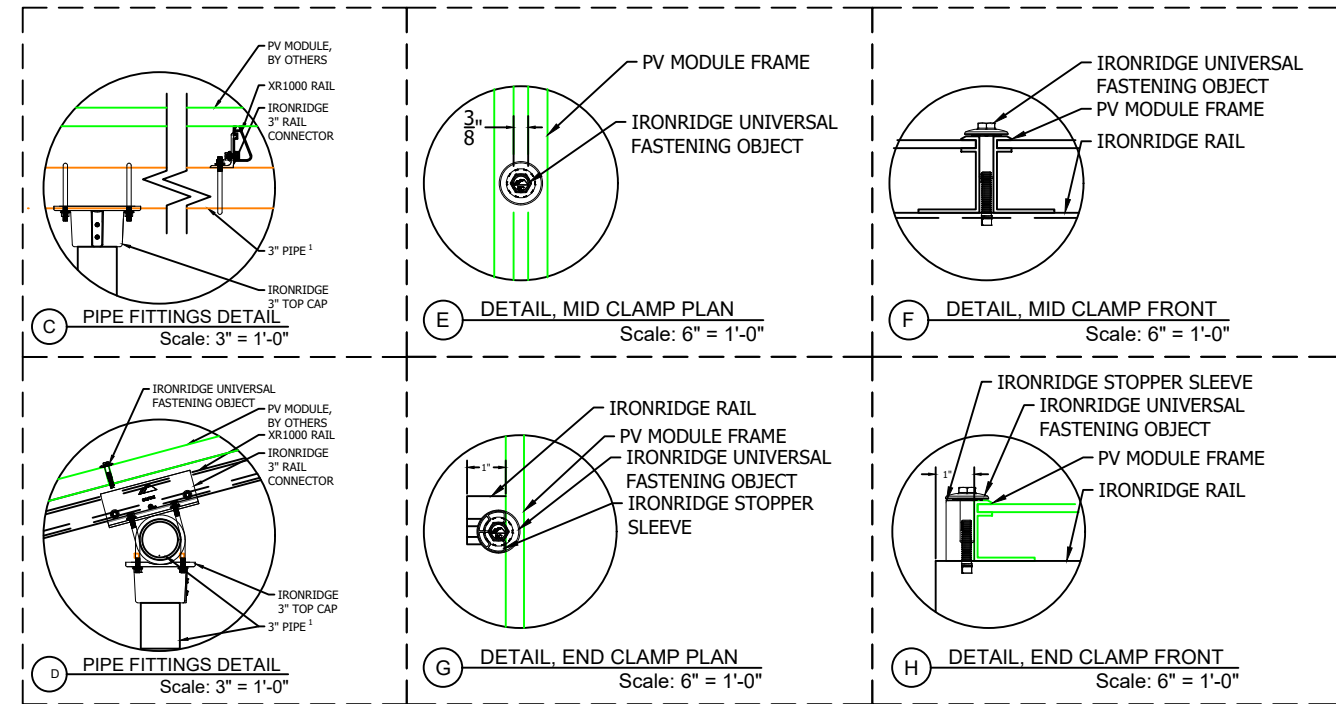
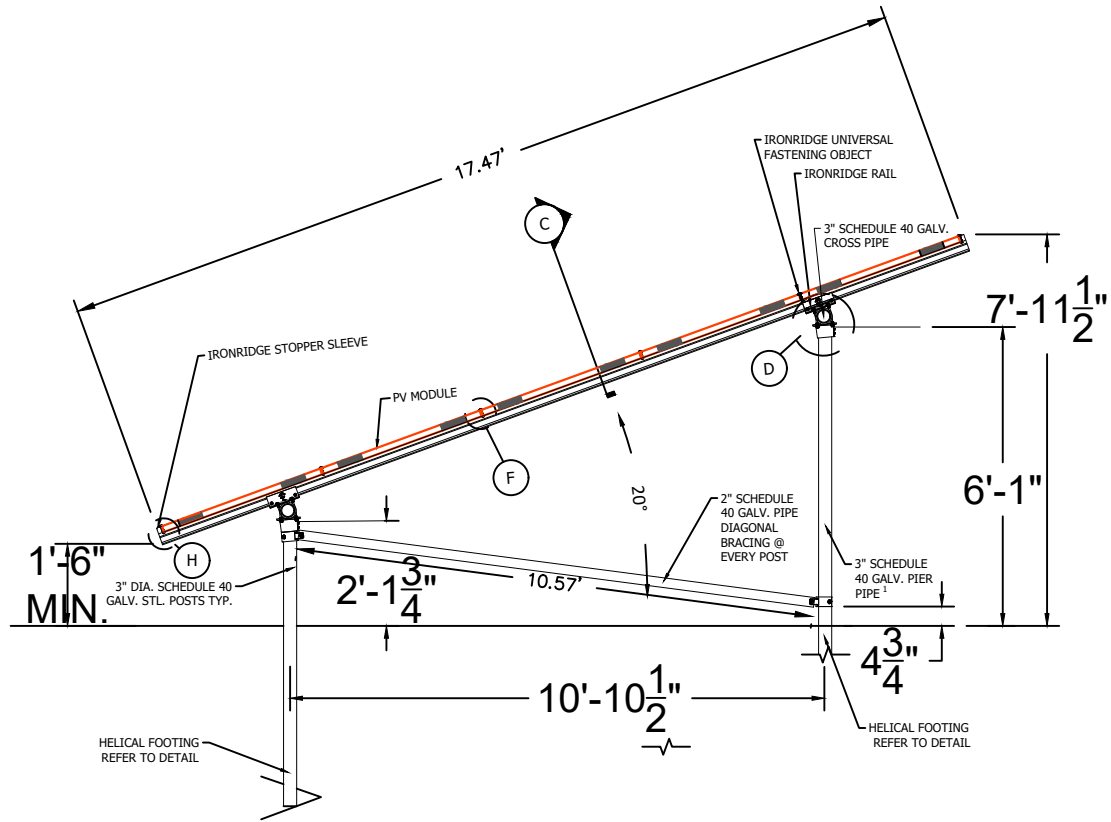
SYSTEM SIZE (DC): 12.3 KW
30 MODULES: HANWHA Q.PEAK DUO BLK ML-G10+ 410
30 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION

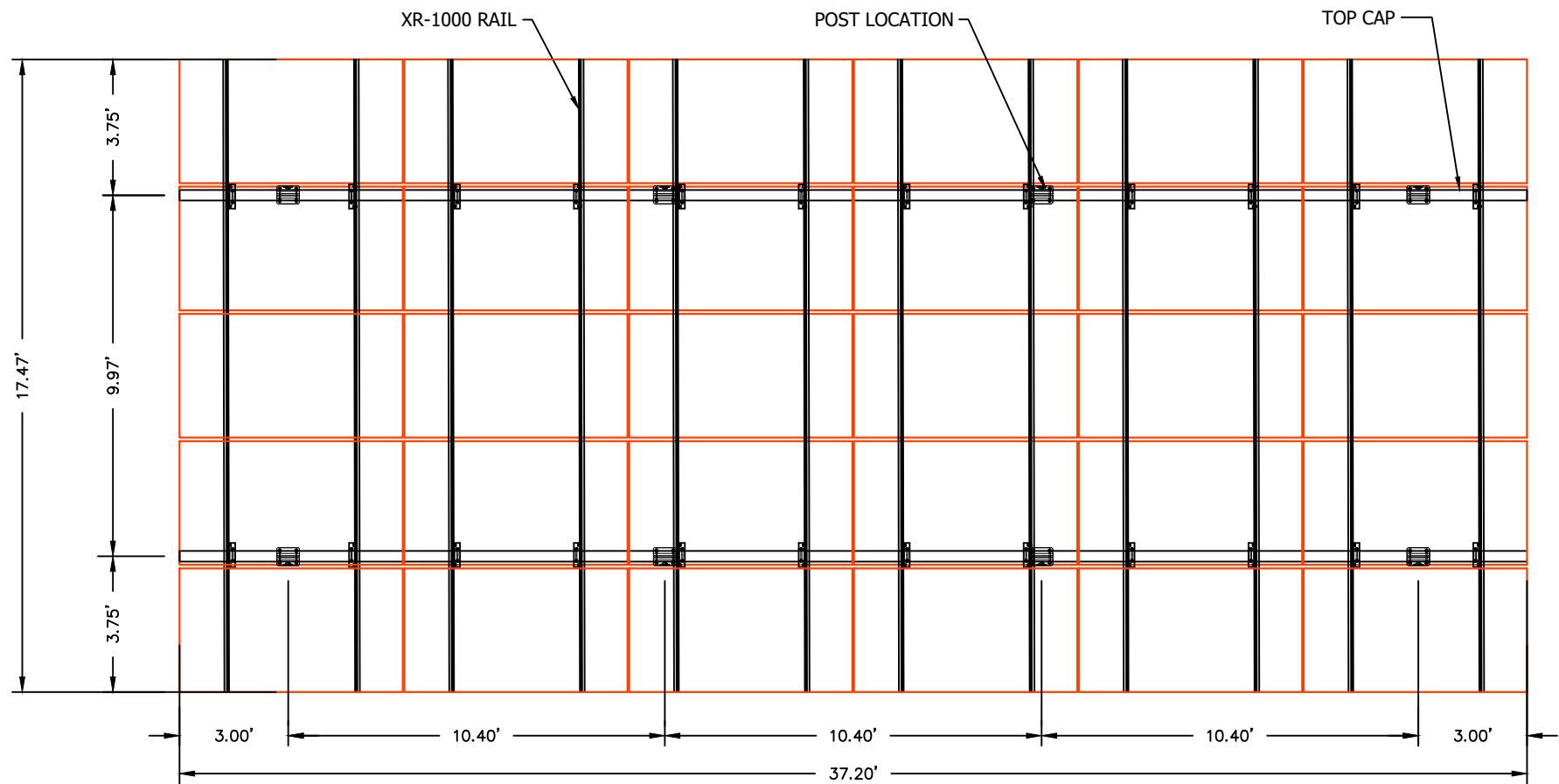
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PANEL LAYOUT

PV-2.2

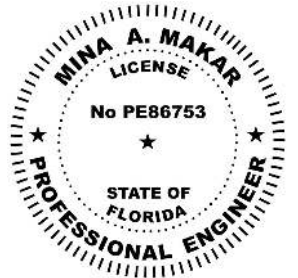


PIPE FITTINGS DETAIL



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SOLAR CONTRACTOR

CAMERON CHRISTENSEN
CERTIFIED SOLAR CONTRACTOR
LICENSE NUMBER: CVC57036
MOMENTUM SOLAR
5728 MAJOR BLVD. SUITE 307
ORLANDO FL. 32819

CUSTOMER INFORMATION

VICTORIA LHEUREUX - MS162993
2656 SOUTHEAST COUNTY ROAD 252
LAKE CITY, FL 32025
3866282461

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 12.3 KW
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LAYOUT DETAIL

PV-3

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FOOTING DETAIL

PV-3.1

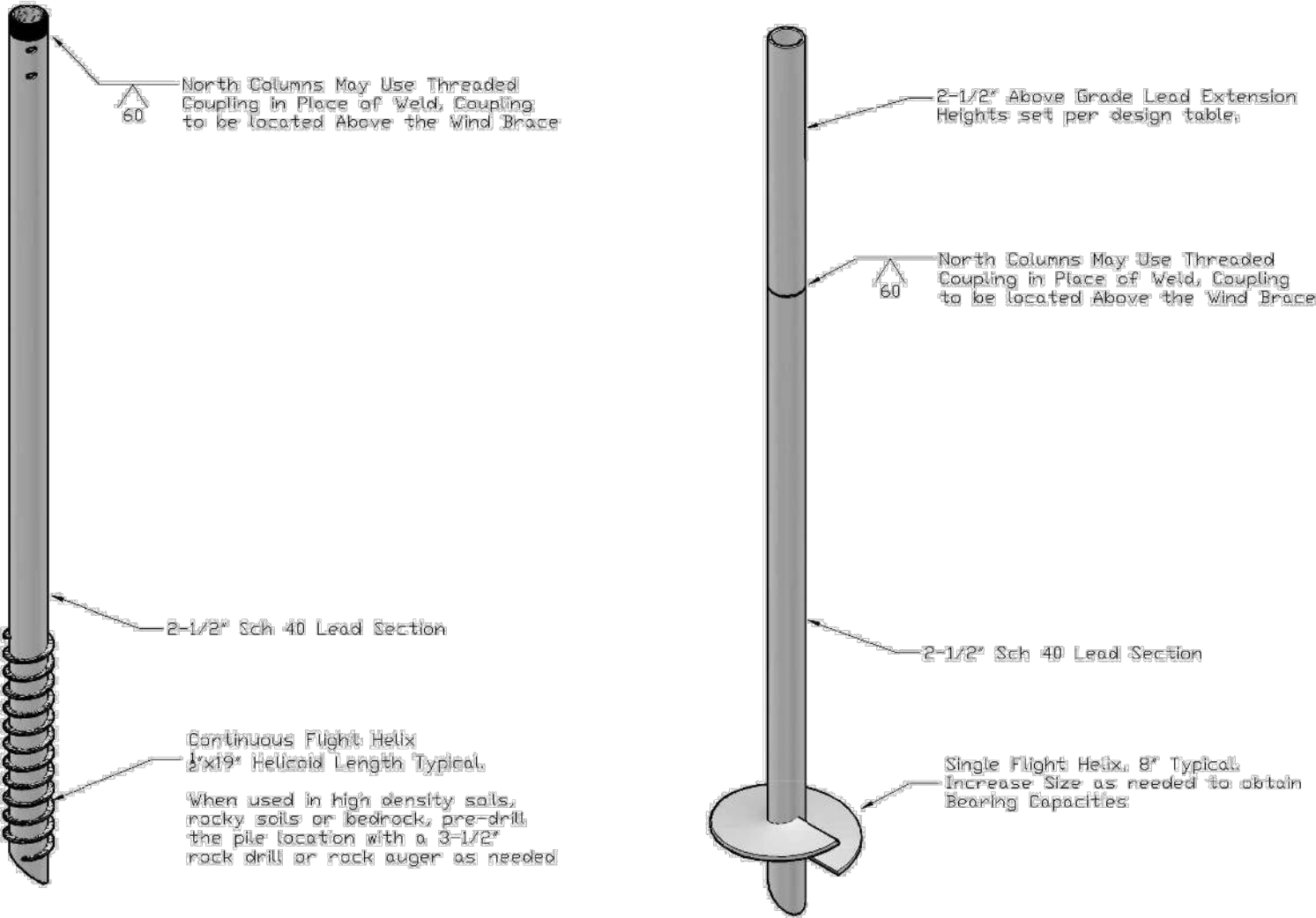
Specification Requirements:

The following material specification requirements pertain to the fabrication of the Solar Foundations USA ground mount solar support structure as indicated on these drawings.

1. Solar Foundation aluminum rails shall conform to ASTM B221.
2. Structural steel tubing shall be ASTM A500 Grade C.
3. Steel pipe for piles shall conform to ASTM A500 Grade C.
4. Steel pile extensions shall be ASTM A53 Grade B.
5. Fabricated steel plate for column cap assemblies, bracing clamps, etc. shall be ASTM A36 or A1011.
6. Steel bolts for cap fasteners shall conform to SAE J429 Grade 5. All other bolts shall conform to SAE J429 Grade 2 or better.
7. Steel U-bolts shall conform to ASTM 1018.
8. USS flat steel washers shall conform to ASTM F844 and nuts for steel connections shall conform to ASTM A563 Grade A.
9. All field welding shall conform to AWS D1.1/D1.1M -Structural Welding Code requirements.
10. All steel shall be hot-dip galvanized per ASTM A123 or A153 after all fabrication has been completed.

Installation Requirements:

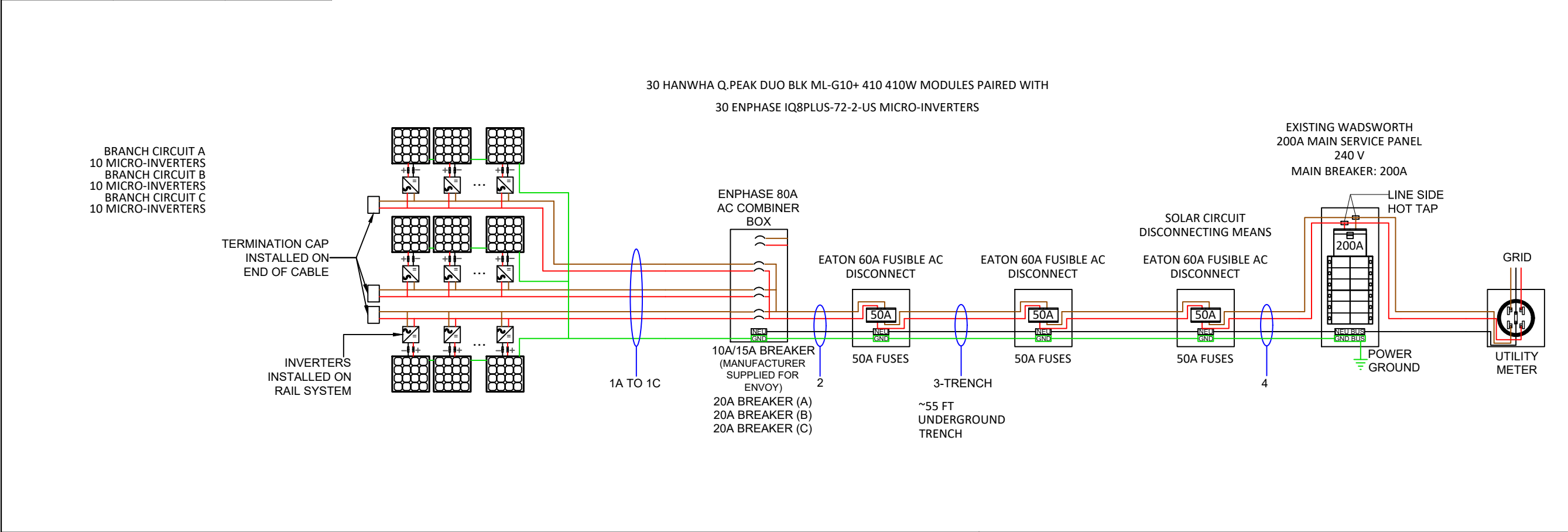
1. The minimum average installation torque required to obtain the required indicated capacities and the minimum installation depth shown on the plans shall be satisfied prior to termination of the installation. The installation torque shall be an average of the installation torques indicated during the last 1 foot of installation.
2. The torsional strength rating of the torque anchor shall not be exceeded during the installation. If the torsional strength limit of the anchor has been reached, but the anchor has not reached the target depth, perform the following:
 - 2.1. If the torsional strength limit is achieved prior to reaching the target depth, the installation may be acceptable if reviewed and approved by the engineer and/or owner.
 - 2.2. The installer may remove the torque anchor and install a new one with smaller diameter helical plate.
 - 2.3. If using a continuous flight pile, pre-drill the pile location with a 3-1/2" rock auger or rock drill as needed.
3. If the target depth is achieved, but the torsional requirement has not been met the installer may do one of the following:
 - 3.1. Install the torque anchor deeper to obtain the required capacity
 - 3.2. Remove the torque anchor and install a new one with a larger diameter helical plate or one with multiple helical plates.
 - 3.3. Reduce the load capacity on the individual torque anchor by providing additional torque anchors at a reduced spacing.



Helical Pile Detail

NOT TO SCALE

PV MODULE RATINGS			INVERTER RATINGS		VOLTAGE DROP CALCULATIONS							
MODULE MAKE		HANWHA	INVERTER MAKE	ENPHASE	FORMULA USED PER NEC HANDBOOK 215.2(A)(4) WHERE APPLICABLE							
MODEL		HANWHA Q.PEAK DUO BLK ML-G10+ 410	MODEL	IQ8PLUS-72-2-US	WIRE RUN	V _{mp}	I _{mp}	R	L (FT)	V _o	% V _o	WIRE SIZE
MAX POWER		410W	MAX OUTPUT POWER	290W	BRANCH TO LOAD CENTER	240.00	12.1	1.98	79.00	3.785	1.58%	12 AWG
OPEN CIRCUIT VOLTAGE		45.37V	OPEN DC VOLTAGE	60V	LOAD CENTER TO AC DISCONNECT	240.00	45.375	0.491	3.00	0.134	0.06%	06 AWG
MPP VOLTAGE		37.64V	NOMINAL AC VOLTAGE	240V	AC DISCONNECT TO AC DISCONNECT	240.00	45.375	0.491	55.00	2.451	1.02%	06 AWG
SHORT CIRCUIT CURRENT		11.2A	MAX AC CURRENT	1.21A	AC DISCONNECT TO AC DISCONNECT	240.00	45.375	0.491	10.00	0.446	0.19%	06 AWG
MPP CURRENT		10.89A	CEC INVERTER EFFICIENCY	97%	AC DISCONNECT TO INTERCONNECTION	240.00	45.375	0.491	10.00	0.446	0.19%	06 AWG
NUMBER OF MODULES		30	NUMBER OF INVERTERS	30								
UL1703 COMPLIANT		YES	UL1703 COMPLIANT	YES								
SUB PANEL BREAKER SIZE	# OF MODULES	PV BREAKER PER BRANCH	THIS SOLAR PHOTOVOLTAIC SYSTEM COMPLIES WITH THE 2023 FLORIDA BUILDING CODE AND THE 2020 NATIONAL ELECTRICAL CODE									
	UP TO 13	20A										



Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1A	OPEN AIR	2	12 AWG	TRUNK CABLE	90°C	30	0.96	1	28.80	10	1.21	1.25	15.13	08 AWG	THWN-2
1B	OPEN AIR	2	12 AWG	TRUNK CABLE	90°C	30	0.96	1	28.80	10	1.21	1.25	15.13	08 AWG	THWN-2
1C	OPEN AIR	2	12 AWG	TRUNK CABLE	90°C	30	0.96	1	28.80	10	1.21	1.25	15.13	08 AWG	THWN-2
2	1" PVC	3+G	06 AWG	THWN-2	75°C	65	0.96	1	62.40	30	1.21	1.25	45.38	08 AWG	THWN-2
3-TRENCH	1" PVC	3+G	06 AWG	THWN-2	75°C	65	0.96	1	62.40	30	1.21	1.25	45.38	08 AWG	THWN-2
4	1" PVC	3+G	06 AWG	THWN-2	75°C	65	0.96	1	62.40	30	1.21	1.25	45.38	08 AWG	THWN-2



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CUSTOMER INFORMATION

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3866282461

PV SYSTEM INFORMATION

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PROJECT INFORMATION

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ELECTRICAL

PV-4

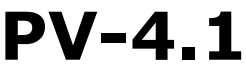
1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C). THE GROUND IS CARRIED AWAY FROM THE GROUNDING LUG USING #6 BARE COPPER WIRE OR #8 THWN-2 COPPER WIRE.
3. THIS SYSTEM COMPLIES WITH NEC 2017
4. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS SHALL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN. IN ADDITION, VOLTAGE DROP CALCULATIONS FROM PANELS TO THE COMBINER BOX SHALL BE SHOWN IN A SIMILAR FASHION
5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2017 ARTICLE 310
6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATASHEET
8. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL LOCAL AND NATIONAL CODE REQUIREMENTS.
9. EACH MODULE MUST BE GROUNDED ACCORDING TO USER INSTRUCTIONS
10. ALL EQUIPMENT SHALL BE LISTED PER NEC 690.4(B)
11. PER NEC 690.13, 690.15, PROVIDE A WARNING SIGN AT ALL LOCATIONS WHERE TERMINALS OF THE DISCONNECTING MEANS MAY BE ENERGIZED IN THE OPEN POSITION> SIGN SHALL READ *WARNING - ELECTRIC SHOCK HAZARD - DO NOT TOUCH TERMINALS - OR EQUIVALENT.
12. PER NEC 705.10, PROVIDE A PERMANENT PLAQUE OR DIRECTORY SHOWING ALL ELECTRIC POWER SOURCES ON THE PREMISES AT SERVICE ENTRANCE.
13. INTERCONNECTION METHOD SHALL COMPLY WITH NEC 705.12
14. AND OPTION FOR A SINGLE CIRCUIT BRANCH TO BE SPLIT INTO TWO SUB-CIRCUIT BRANCHES IS ACCEPTABLE.
15. ALL CONDUCTORS MUST BE COPPER.
16. NEUTRAL AND EQUIPMENT GROUNDING CONDUCTOR BONDED AS PER NEC 250.24(C).
17. EQUIPMENT GROUNDING CONDUCTOR IS CONNECTED TO A GROUNDING ELECTRODE SYSTEM PER 250.54(D).
18. FUSES FOR PV DISCONNECT HAVE AIC RATINGS OF 200KA AC AND 20KA DC.
19. SUPPLY SIDE CONNECTION SHALL BE MADE USING ILSKO INSULATION PIERCING CONNECTORS (IPC). MAKE, MODEL, AND RATING OF INTERCONNECTION CAN BE SEEN ON TABLE 1 BELOW.
20. METHOD OF INTERCONNECTION CAN BE SEEN IN FIGURE 1.
21. UTILITY HAS 24-HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC SYSTEM COMPONENTS LOCATED AT THE SERVICE ENTRANCE.







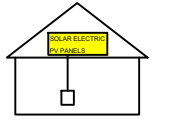



- ### TABLE 1:


MAKE	MODEL	VOLTAGE RATING	CONDUCTOR RANGE MAIN	CONDUCTOR RANGE TAP
ILSCO	IPC 4006	600 V	4/0-4 AWG	6-14 AWG
ILSCO	IPC 4020	600 V	4/0-2 AWG	2/0-6 AWG

FIGURE 1:

1. ADJUST THE CONNECTOR NUT TO SUITABLE LOCATION
2. PUT THE BRANCH WIRE INTO THE CAP SHEATH FULLY
3. INSERT THE MAIN WIRE, IF THERE ARE TWO LAYS OF INSULATED LAY IN THE MAIN CABLE, SHOULD STRIP A CERTAIN LENGTH OF THE FIRST INSULATED LAY FROM INSERTED END
4. TURN THE NUT BY HAND, AND FIX THE CONNECTOR IN SUITABLE LOCATION.
5. SCREW THE NUT WITH THE SLEEVE SPANNER.
6. SCREW THE NUT CONTINUALLY UNTIL THE TOP PART IS CRACKED AND DROPPED DOWN




ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH 2017 NEC ARTICLE 110.21(B). LABEL WARNINGS SHALL ADEQUATELY WARN OF THE HAZARD. LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONMENT.							
TAG	LABEL		QUANTITY	LOCATION	NOTE	EXAMPLES	
Ⓐ	<div><div><div>⚠CAUTION</div><div>AC SOLAR VOLTAGE</div></div></div>		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS <u>OR</u> NO MORE THAN 10'	<div><div></div><div></div></div>	
Ⓑ	<div><div>WARNING: PHOTOVOLTAIC POWER SOURCE</div></div>	<div>PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN</div>	1	COMBINER BOX	1 AT ANY COMBINER BOX		
Ⓒ	<div><div>⚠WARNING</div><div>ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION</div></div>		1	JUNCTION BOX	1 AT ANY JUNCTION BOX		
Ⓓ	<div><div>PHOTOVOLTAIC SYSTEM AC DISCONNECT</div><div>RATED AC OUTPUT CURRENT A</div><div>NOMINAL OPERATING AC VOLTAGE 240 V</div><div><div>⚠CAUTION</div><div>POWER TO THIS SERVICE IS ALSO SUPPLIED FROM ON-SITE SOLAR GENERATION</div><div>AC SYSTEM DISCONNECT</div></div></div>	<div><div>⚠WARNING</div><div>ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION</div><div>RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM</div></div>	1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	<div><div></div><div></div></div>	
Ⓔ		<div>PV METER</div>	1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD	<div></div>	
Ⓕ	<div><div>⚠WARNING</div><div>DUAL POWER SUPPLY SECOND SOURCE IS PHOTOVOLTAIC SYSTEM</div></div>	<div>REVENUE METER</div>	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD	<div></div>	
Ⓖ	<div><div>SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN</div><div>TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY</div><div></div></div>	<div><div>⚠WARNING</div><div>DUAL POWER SUPPLY SECOND SOURCE IS PHOTOVOLTAIC SYSTEM</div></div>	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD	<div></div> <div></div>	
	<div><div>⚠WARNING</div><div>POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE</div></div>		1	BACKFEED PANEL			
Ⓕ	<div>NOMINAL OPERATING AC VOLTAGE : 240V NOMINAL OPERATING AC FREQUENCY : 60HZ MAXIMUM AC POWER : <div></div> VA MAXIMUM AC CURRENT : <div></div> A MAXIMUM OVERCURRENT DEVICE RATING FOR AC MODULE PROTECTION : 20A</div>		1	AC CURRENT PV MODULES		<div></div> <div><div>Ⓢ BACKFEED</div></div>	



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EQUIPMENT LABELS

PV-4.2



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PV-4.2

PROPOSED ARRAY
LOCATION



PROPOSED ARRAY LOCATION IS OUTSIDE FEMA FLOOD ZONES A & AE



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FEMA FLOOD ZONE

PV-4.3