NEW PHOTOVOLTAIC SYSTEM 7.20 KW DC 2425 WEST MCKINLEY AVENUE, MILWAUKEE, WI 53205, USA

GENERAL NOTES

1.1.1 PROJECT NOTES:

1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.

- 1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- 1.1.4 ARC FAULT PROTECTION (AFCI) AND PHOTOVOLTAIC RAPID SHUTDOWN SYSTEM (PVRSS) IS INTEGRATED WITH THE POWER OPTIMIZER IN ACCORDANCE WITH NEC 210.12 & 690.12 RESPECTIVELY.
- 1.1.5 GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE INVERTER IN ACCORDANCE WITH NEC 690.41(B) 1.1.6 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4: PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
- 1.1.7 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.1.8 ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.3].
- 1.1.9 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

1.2.1 SCOPE OF WORK:

1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT

1.3.1 WORK INCLUDES:

- 1.3.2 PV RACKING SYSTEM INSTALLATION QUICK MOUNT PV
- 1.3.3 PV MODULE AND INVERTER INSTALLATION HANWHA QCELL Q.PEAK DUO BLK ML-G10+ 400W / SOLAREDGE SE5000H-US / SOLAREDGE POWER OPTIMIZER P401
- 1.3.4 PV EQUIPMENT ROOF MOUNT
- 1.3.5 PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX
- 1.3.6 PV LOAD CENTERS (IF INCLUDED)
- 1.3.7 PV METERING/MONITORING (IF INCLUDED)
- 1.3.8 PV DISCONNECTS
- 1.3.9 PV GROUNDING ELECTRODE & BONDING TO (E) GEC
- 1.3.10 PV FINAL COMMISSIONING
- 1.3.11 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV
- 1.3.12 SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE

PROJECT INFORMATION

OWNER

NAME: MOISES DE LOS SANTOS

PHONE: (414) 403-7688

CONTRACTOR INFORMATION:

CONTRACTOR NAME: PALMETTO CONTRACTOR ADDRESS: 1505 KING ST,

CHARLESTON.SC 29405

CONTRACTOR PHONE: (855) 339-1831

CONTRACTOR LICENSE NUMBER: DC 121901196

ELECTRICAL LICENSE NUMBER: 1494916

SCOPE OF WORK:

SYSTEM SIZE : STC : 18 X 400W= 7.20 kW DC

PTC: 18 x 376.55W = 6.78 kW DC

AC SIZE: 5.0 kW AC

(18) HANWHA QCELL Q.PEAK DUO BLK ML-G10+ 400W

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By Yuri at 11:02:36 AM, 12/19/2022

(1) SOLAREDGE SE5000H-US

(18) SOLAREDGE POWER OPTIMIZER P401

ATTACHMENT TYPE: ROOF MOUNT

MSP UPGRADE: NO

AUTHORITIES HAVING JURISDICTION:

BUILDING : CITY OF MILWAUKEE ZONING : CITY OF MILWAUKEE

UTILITY : WISCONSIN ELECTRIC POWER CO

DESIGN SPECIFICATION:

OCCUPANCY: R3/SINGLE FAMILY RESIDENTIAL CONSTRUCTION TYPE / FIRE RATING: 5-B GROUND SNOW LOAD (LOCAL): 30 PSF WIND EXPOSURE: B
WIND SPEED (STATE): 115 MPH

APPLICABLE CODES & STANDARDS:

BUILDING : IBC/IEBC 2015 IRC 2015

ELECTRICAL : NEC 2017 FIRE (STATE) : IFC 2015

OTHER : WISCONSIN UNIFORM DWELLING CODE

VICINITY MAP



SATELLITE VIEW



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LMETTO INSTALLATION HOT CALL OR TEXT: 1-843-258-538

MOISES DE LOS SANTOS 2425 WEST MCKINLEY AVENUE, MILWAUKEE, WI

3205, 1

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T-001

2.1.1 SITE NOTES:

- 2.1.2 A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.
- 2.1.3 THE PV MODULESARECONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITHOUT STORAGE BATTERIES.
- 2.1.4 THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
- 2.1.5 PROPERACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PERSECTION NEC 110.26.
- 2.1.6 ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE.

2.2.1 EQUIPMENT LOCATIONS:

- 2.2.2 ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26.
- 2.2.3 WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLES 310.15 (B)(2)(A) AND 310.15 (B)(3)(C).
- 2.2.4 JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.
- 2.2.5 ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.
 2.2.6 ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.
- 2.2.7 ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.

2.3.1 STRUCTURAL NOTES:

- 2.3.2 RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUSTALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAI MANUFACTURER'S INSTRUCTIONS.
- 2.3.3 JUNCTION BOX WILL BE INSTALLED PER MANUFACTURERS' SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.
- 2.3.4 ROOFTOP PENETRATIONS FOR PV RACEWAY WILLBE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.
- 2.3.5 ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER. 2.3.6 WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.

2.4.1 WIRING & CONDUIT NOTES:

- 2.4.2 ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS AREBASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.
- 2.4.3 CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.
- 2.4.4 VOLTAGE DROP LIMITED TO 3.0%.
- 2.4.5 DC WIRING LIMITED TO INVERTER FOOTPRINT. OPTIMIZER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY W/SUITABLE WIRING CLIPS.
- 2.4.6 AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK PHASE B OR L2- RED, OR OTHER CONVENTION IF THREE PHASE PHASE C OR L3- BLUE, YELLOW, ORANGE**, OR OTHER CONVENTION NEUTRAL- WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15].

2.5.1 GROUNDING NOTES:

- 2.5.2 GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVISES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.
- 2.5.3 PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC TABLE 250.122.
- 2.5.4 METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURES CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A).
- 2.5.5 EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED ACCORDING TO NEC 690.45 AND INVERTER MANUFACTURERS INSTRUCTIONS.
- 2.5.6 EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURER INSTALLATION REQUIREMENTS.
- 2.5.7 THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.
- 2.5.8 GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]
- 2.5.9 THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47
 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS
 INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM
 PROVIDED ACCORDING TO NEC 250, NEC 690.47 AND AHAMILLIAM WITH COMPLY WIT

AND (2) TO REDUCE FIRE HAZARDS

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2.6.1 <u>DISCONNECTION AND OVER-CURRENT PROTECTION</u> NOTES:

2.6.2 DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).
2.6.3 DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH 2.6.4 PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.12(A) THROUGH (D).

 $2.6.5 \ {\rm ALL} \ {\rm OCPD} \ {\rm RATINGS} \ {\rm AND} \ {\rm TYPES} \ {\rm SPECIFIED} \ {\rm ACCORDING} \ {\rm TO} \ {\rm NEC} \ 690.8, \ 690.9, \ {\rm AND} \ 240.$

2.6.6 OPTIMIZER BRANCHES CONNECTED TO A SINGLE BREAKER OR GROUPED FUSES IN ACCORDANCE WITH NEC 110.3(B).

2.6.7 IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.

2.7.1 INTERCONNECTION NOTES:

2.7.2 LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 705.12 (B)]
2.7.3 THE SUM OF THE UTILITY OCPD AND INVERTER CONTINUOUS OUTPUT MAY NOT EXCEED 120% OF BUSBAR RATING [NEC 705.12(B)(2)(3)(b)].
2.7.4 THE SUM OF 125 PERCENT OF THE POWER SOURCE(S)

OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 120 PERCENT OF THE AMPACITY OF THE BUSBAR, PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD [NEC 705.12(B)(2)(3)].

2.7.5 AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVERCURRENT DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE COMBINED OVERCURRENT DEVICE MAY BE EXCLUDED ACCORDING TO NEC 705.12 (B)(2)(3)(C). 2.7.6 FEEDER TAP INTERCONECTION (LOAD SIDE) ACCORDING TO NEC 705.12 (B)(2)(1)

2.7.7 SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.12 (A) WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42

2.7.8 BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING [NEC 705.12 (B)(5)].

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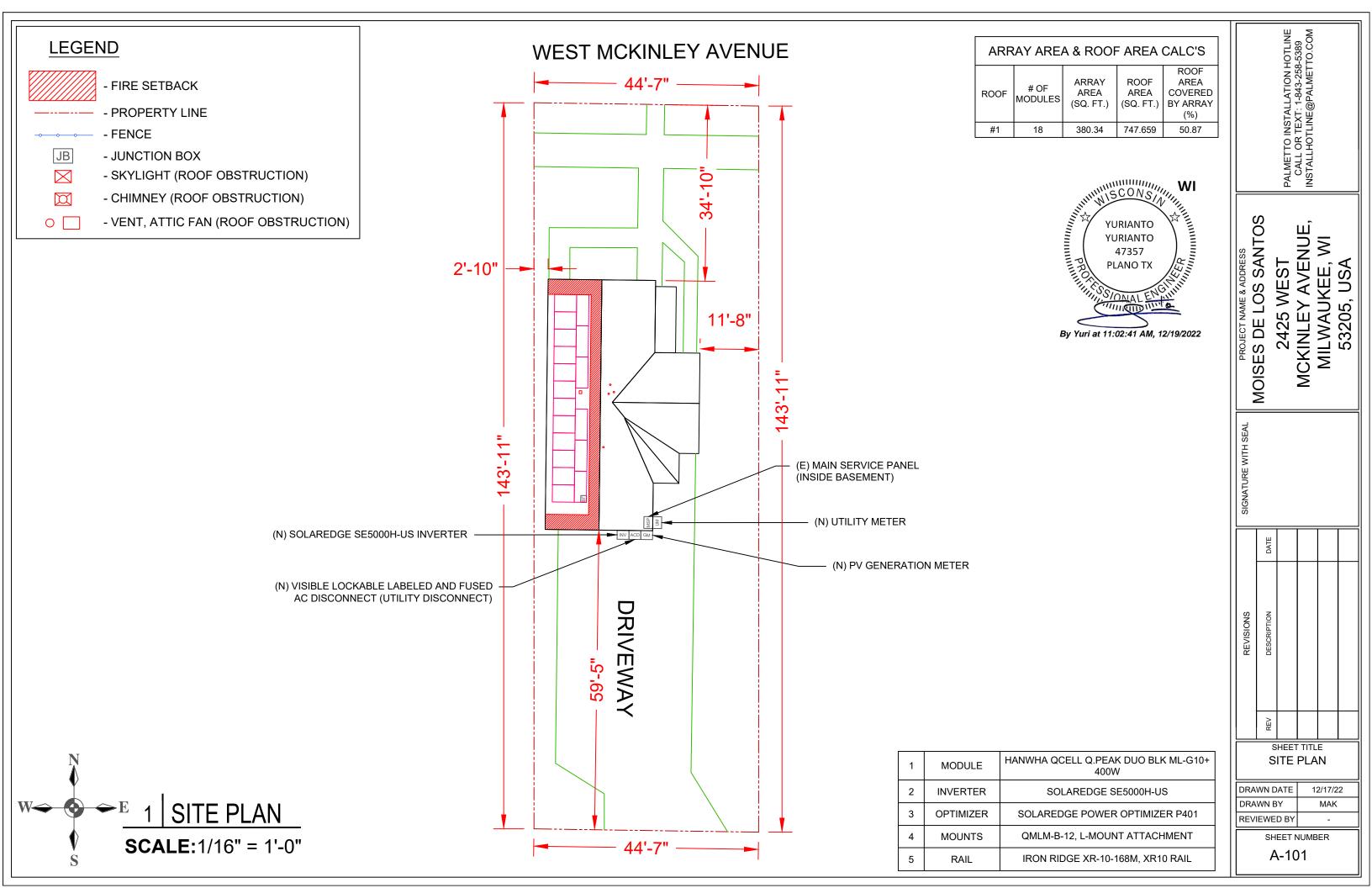
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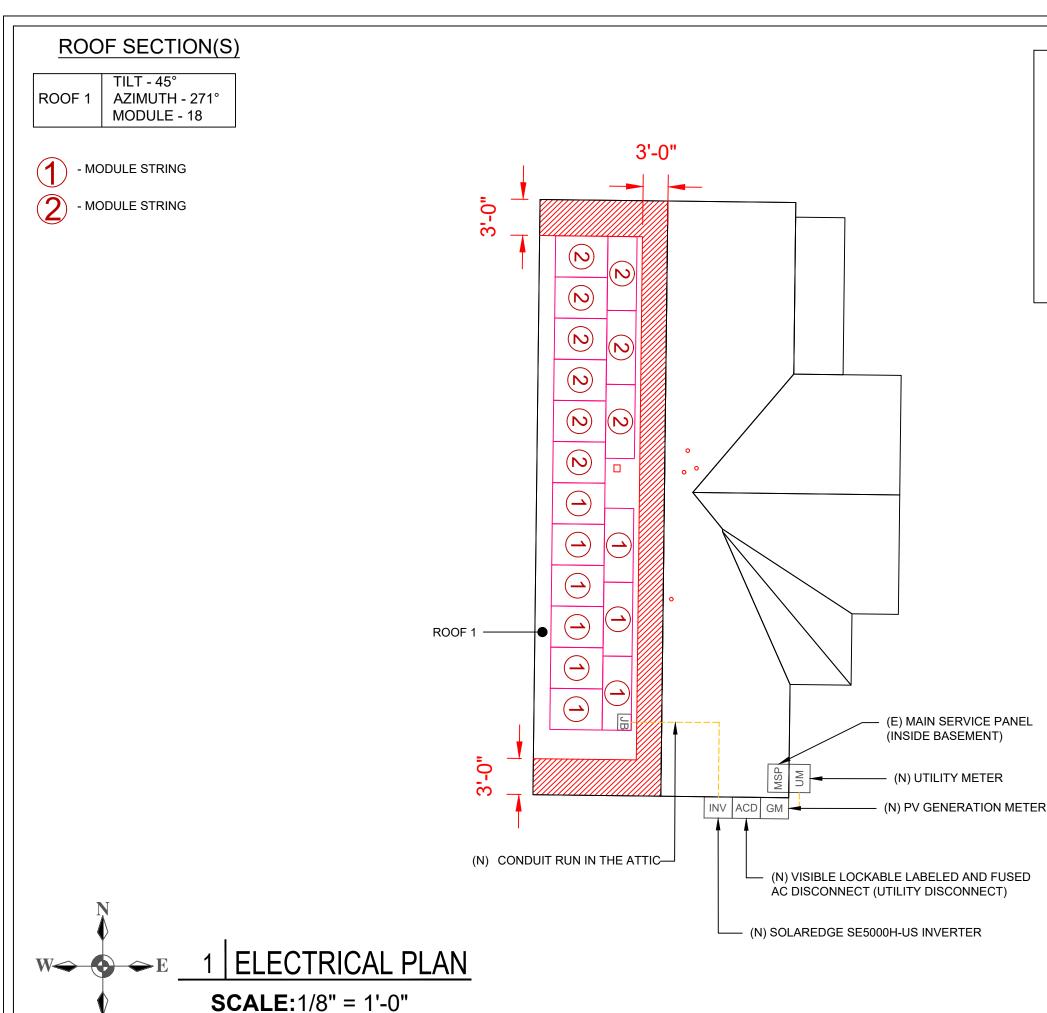
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LEGEND



- FIRE SETBACK

---- - PROPERTY LINE

- FENCE

JB

- JUNCTION BOX

 \boxtimes

- SKYLIGHT (ROOF OBSTRUCTION)

Q

- CHIMNEY (ROOF OBSTRUCTION)

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

1	MODULE	HANWHA QCELL Q.PEAK DUO BLK ML-G10+ 400W
2	INVERTER	SOLAREDGE SE5000H-US
3	OPTIMIZER	SOLAREDGE POWER OPTIMIZER P401
4	MOUNTS	QMLM-B-12, L-MOUNT ATTACHMENT
5	RAIL	IRON RIDGE XR-10-168M, XR10 RAIL

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PALMETTO INST CALL OR TEX INSTALLHOTLIN

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MILWAUKEE, WI
53205, USA

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ELECTRICAL PLAN

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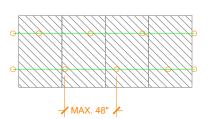
ROOF SECTION(S)

ROOF 1

ROOF MATERIAL -COMPOSITE SHINGLE RAFTER SIZE - 2"X4" O.C. SPACING - 16" TOTAL NUMBER OF MOUNTS - 47



MOUNTING PATTERN SAMPLE



MAXIMUM MOUNT SPACING: 48" MOUNT PATTERN: STAGGERED

ALL HARDWARE, INCLUDING MOUNTING AND RACKING, TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

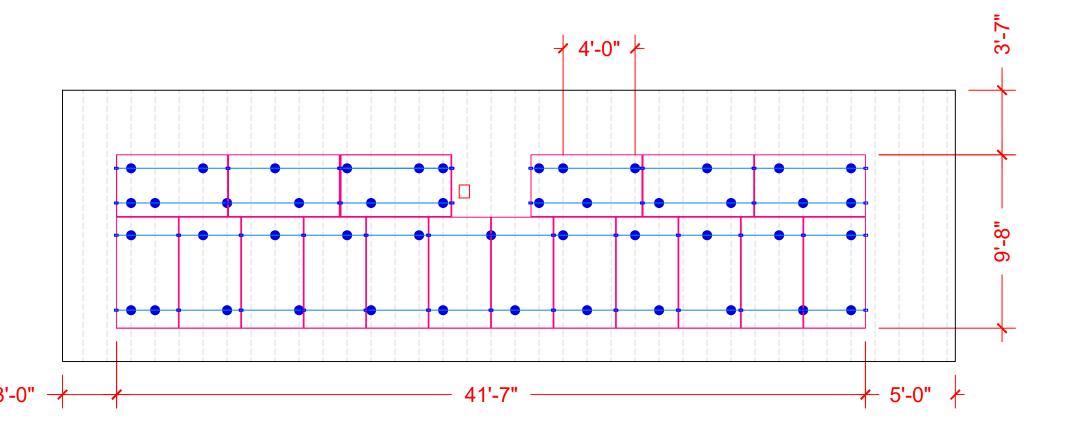
- CLAMP



- MODULE MOUNT

- RAIL

- RAFTER



ROOF 1 TILT- 45 DEG AZIMUTH - 271 DEG

1 ATTACHMENT PLAN

SCALE:3/16" = 1'-0"

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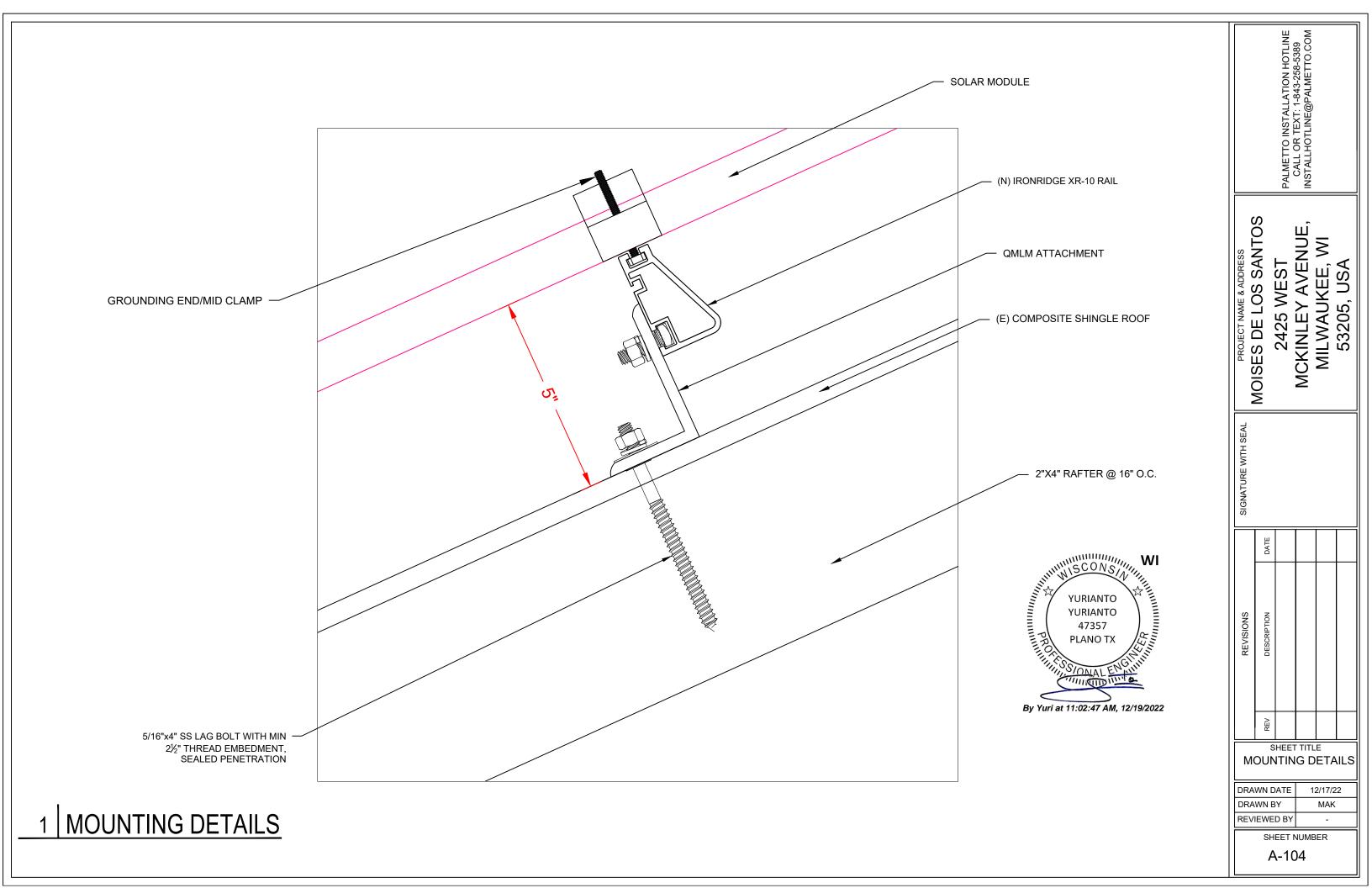
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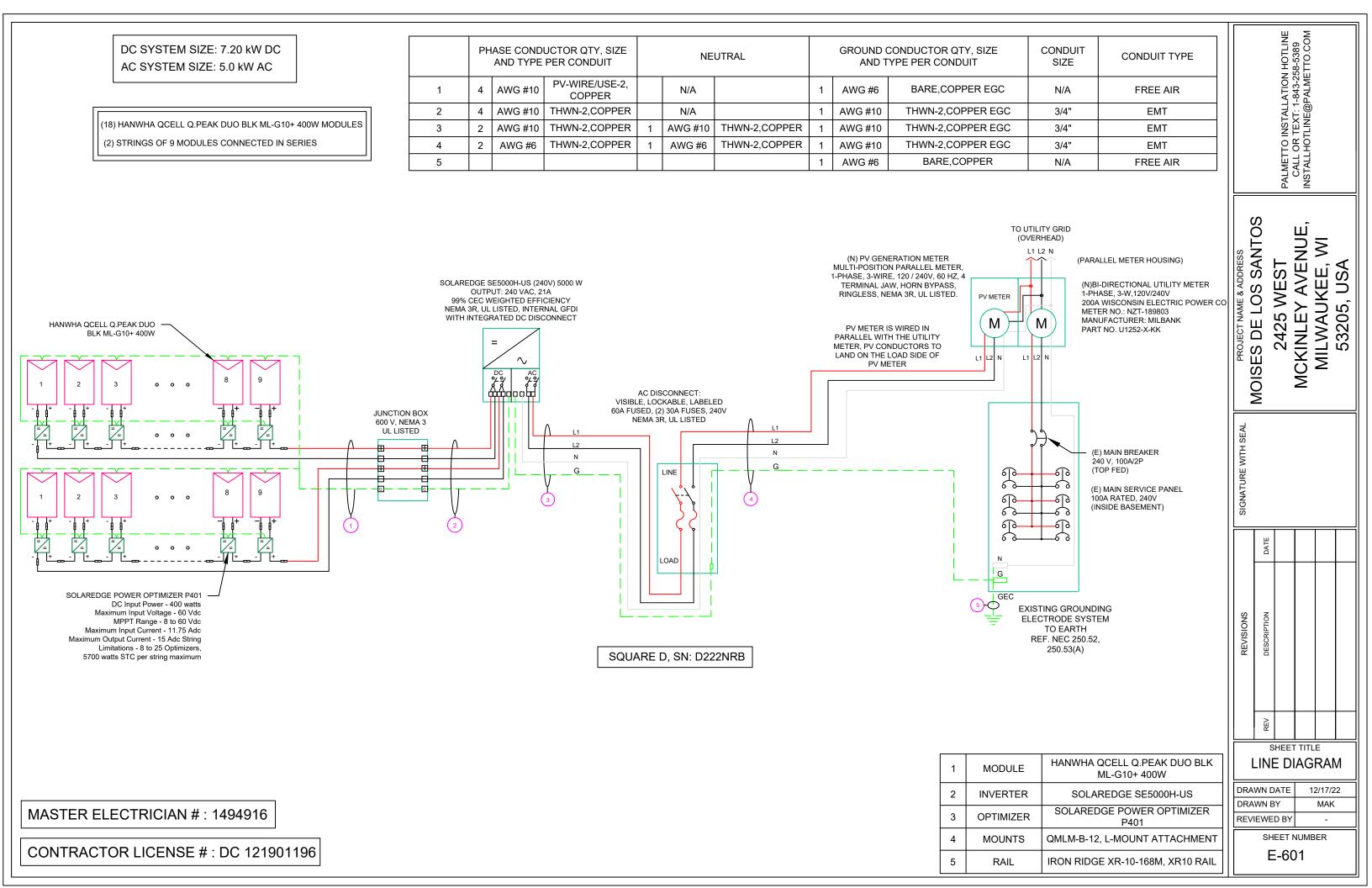
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SHEET TITLE ATTACHMENT PLAN

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SOLAR MODULE SPECIFICATIONS			
MANUFACTURER / MODEL #	HANWHA QCELL Q.PEAK DUO BLK ML-G10+ 400W		
VMP	37.59V		
IMP	10.64A		
VOC	45.06V		
ISC	11.16A		
TEMP. COEFF. VOC	-0.27%/°C		
PTC RATING	376.55W		
MODULE DIMENSION	73.97"L x 41.14W x 1.25"D (In Inch)		

INVERTER SPECIFICATIONS				
MANUFACTURER / MODEL #	SOLAREDGE SE5000H-US			
NOMINAL AC POWER	5000 W			
NOMINAL OUTPUT VOLTAGE	240 VAC			
NOMINAL OUTPUT CURRENT	21			

POWER OPTIMIZER (OPTIMIZER P401)			
MAXIMUM INPUT POWER	400W		
MINIMUM INPUT VOLTAGE	8 VDC		
MAXIMUM INPUT VOLTAGE	60 VDC		
MAXIMUM MODULE ISC	11.75 ADC		
MAXIMUM OUTPUT CURRENT	15 ADC		

PERCENT OF VALUES	NUMBER OF CURRENT CARRYING CONDUCTORS IN EMT
0.80	4-6
0.70	7-9
0.50	10-20

AMBIENT TEMPERATURE SPECS				
RECORD LOW TEMP	-22°			
AMBIENT TEMP (HIGH TEMP 2%)	35°			
CONDUIT HEIGHT	0.5"			
ROOF TOP TEMP	57°			
CONDUCTOR TEMPERATURE RATE	90°			
MODULE TEMPERATURE COEFFICIENT OF Voc	-0.27%/°C			

DC CONDUCTOR AMPACITY CALCULATIONS: **ARRAY TO JUNCTION BOX:**

EXPECTED WIRE TEMP (In Celsius)	57°
TEMP. CORRECTION PER TABLE (310.16)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	4
CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a)	1
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY	40A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	18.75A
1.25 X lsc	10.75A
DERATED AMPACITY OF CIRCUIT CONDUCTOR PER NEC TABLE 310.16	
TEMP. CORRECTION PER TABLE (310.16) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a) X CIRCUIT CONDUCTOR AMPACITY	28.40A
RESULT SHOULD BE GREATER THAN (18.75A) OTHERWISE LESS THE ENTR CIRCUIT CONDUCTOR SIZE AND AMPACITY	Y FOR

DC CONDUCTOR AMPACITY CALCULATIONS: FROM JUNCTION BOX TO INVERTER:

AMBIENT TEMPERATURE ADJUSTMENT FOR EXPOSED CONDUIT PER NEC 310.15(B)(2)(c)	22°
EXPECTED WIRE TEMP (In Celsius)	35°+22° = 57°
TEMP. CORRECTION PER TABLE (310.16)	0.71
NO. OF CURRENT CARRYING CONDUCTORS	4
CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a)	0.8
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY	40A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	18.75A
1.25 X Isc	16.75A
DERATED AMPACITY OF CIRCUIT CONDUCTOR PER NEC TABLE 310.16	
TEMP. CORRECTION PER TABLE (310.16) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a) X CIRCUIT CONDUCTOR AMPACITY	22.72A
RESULT SHOULD BE GREATER THAN (18.75A) OTHERWISE LESS THE ENTR' CIRCUIT CONDUCTOR SIZE AND AMPACITY	Y FOR

AC CONDUCTOR AMPACITY CALCULATIONS:

NO. OF INVERTER	1
EXPECTED WIRE TEMP (In Celsius)	35°
TEMP. CORRECTION PER TABLE (310.16)	0.96
NO. OF CURRENT CARRYING CONDUCTORS	3
CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a)	1
CIRCUIT CONDUCTOR SIZE	10 AWG
CIRCUIT CONDUCTOR AMPACITY	35A

REQUIRED CIRCUIT CONDUCTOR AMPACITY PER NEC 690.8(A&B)	26.25A		
1.25 X MAX INVERTER OUTPUT CURRENT	20.25A		
DERATED AMPACITY OF CIRCUIT CONDUCTOR PER NEC TABLE 310.16			
TEMP. CORRECTION PER TABLE (310.16) X CONDUIT FILL CORRECTION PER NEC 310.15(B)(2)(a) X CIRCUIT CONDUCTOR AMPACITY	33.60A		
RESULT SHOULD BE GREATER THAN (26 25A) OTHERWISE LESS THE ENTRY FO			

CIRCUIT CONDUCTOR SIZE AND AMPACITY

2425 WEST MCKINLEY AVENUE, MILWAUKEE, WI 53205, USA PROJECT NAME & ADDRESS
MOISES DE LOS SANTOS

SHEET TITLE
ELECTRICAL
CALCULATIONS

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SHEET NUMBER

E-602

WARNING: PHOTOVOLTAIC POWER SOURCE

! CAUTION!

SOLAR ELECTRIC

SYSTEM CONNECTED

AND ENERGIZED

LABEL 1 ON ALL CONDUITS SPACED AT MAX 10FT

LABEL 2 AT INVERTER

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN URN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO HUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY

LABEL 3 AT INVERTER

> **PHOTOVOLTAIC DC DISCONNECT**

LABEL 4 AT DC DISCONNECT

! WARNING! **ELECTRIC SHOCK HAZARD** DO NOT TOUCH TERMINALS TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL 5 AT EACH AC DISCONNECT **PHOTOVOLTAIC**

AC DISCONNECT

LABEL 6 AT EACH AC DISCONNECT

! WARNING!

DUAL POWER SOURCES SECOND SOURCE IS PV SYSTEM

LABEL 7 AT MEP

! WARNING!

SOLAR SYSTEM CONNECTED AND ENERGIZED

LABEL 8 AT MEP

! CAUTION!

SOLAR POINT OF INTERCONNECTION

LABEL 9 AT UTILITY METER

! WARNING!

THE SERVICE METER IS ALSO SERVED BY A PHOTOVOLTAIC SYSTEM

LABEL 10 AT UTILITY METER PHOTOVOLTAIC AC DISCONNECT SWITCH

RATED OUTPUT CURRENT: 21 AMPS NOMINAL OPERATING VOLTAGE: 240 VOLTS

LABEL 11 AT AC DISCONNECT

MAXIMUM VOLTAGE 480 **MAXIMUM CIRCUIT CURRENT** 30 **MAX RATED OUTPUT CURRECT** OF THE CHARGE CONTROLLER 15 A **OR DC-TO-DC CONVERTER** (IF INSTALLED)

LABEL 12 AT INVERTER **EMERGENCY CONTACT INFORMATION**

INTERCONNECTION

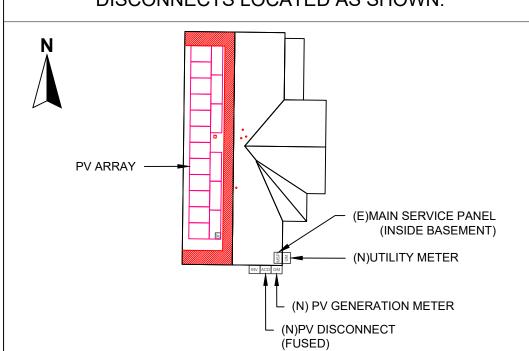
DISCONNECT SWITCH

CONTRACTOR: PALMETTO PHONE:

(855) 339- 1831

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH **DISCONNECTS LOCATED AS SHOWN:**



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SHEET TITLE **PLACARDS**

DRAWN DATE 12/17/22 DRAWN BY MAK REVIEWED BY

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E-603

SOLAR PANEL DEAD WEIGHT LOADING CALCULATION

System:

Solar panel consists of 18 solar modules

Mounting system has 47 points of connection with the roof

Panel Weight Calculation:

Solar Module Weight = 48.5 lbs.

Mounting System Weight = 100 lbs.

Total Panel Weight = ((# of modules)x(module wt.))+(mounting system wt. = ($\begin{vmatrix} 18 & 18 \\ 18 & 28 \end{vmatrix}$) + $\begin{vmatrix} 100 & 18 \\ 100 & 18 \end{vmatrix}$ lbs.

Point Load Calculation:

Distrubuted Load Calculation:

Solar Module Area = $\frac{\text{length" x width"}}{144}$ = $\frac{73.98}{x}$ $\frac{x}{41.14}$ = $\frac{21.14}{144}$ ft2

Total Solar Module Area = (# of modules) x (solar mod. area) = $\begin{bmatrix} 18 \\ x \end{bmatrix}$ x $\begin{bmatrix} 21.14 \\ = \end{bmatrix}$ = $\begin{bmatrix} 380.52 \\ \text{ft2} \end{bmatrix}$

Inter-module Spacing = .25 in.

Total Spacing Area = $(\# \text{ spaces bet.} \pmod{\text{ (inter-mod (panel length modules)} \times \text{ spacing)} \times \text{ or width)}} = 4 \times 25 \times 73.98 = 0.52$ ft2

Total Panel Area = (total solar modular area) + (total spacing area) = 380.52 + 0.52 = 381.04 ft2

Distributed Load = $\frac{\text{(total panel wt.)}}{\text{(total panel area)}}$ = $\frac{973}{381.04}$ = $\frac{2.55}{100.00}$ lbs./ft2

The point loading and distributed loading should be below building department requirements for structural analysis.

Distributed loading - Max. 5 lbs/ft2

Save As Clear Print

Residential PV Dead Weight Loading Calculation form Revised 04/07/2017

PALMETTO INSTALLATION HOTLINE CALL OR TEXT: 1-843-258-5389 INSTALLHOTLINE@PALMETTO.COM

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SIGNATURE WITH SEAL

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		DATE		
	REVISIONS	DESCRIPTION		
		REV		

SHEET TITLE DEAD LOAD CALCULATIONS

DRAWN DATE 12/17/22
DRAWN BY MAK
REVIEWED BY -

E-604

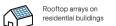
SHEET NUMBER



APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96 h)

² See data sheet on rear for further information.

THE IDEAL SOLUTION FOR:

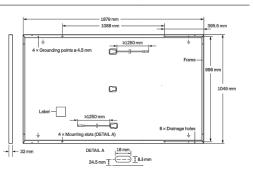


Engineered in Germany



MECHANICAL SPECIFICATION

Format	1879 mm × 1045 mm × 32 mm (including frame)
Weight	22.0 kg
Front Cover	3.2mm thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodised aluminium
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	53-101 mm × 32-60 mm × 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥1250 mm, (-) ≥1250 mm
Connector	Stäubli MC4; IP68

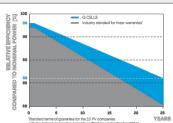


ELECTRICAL CHARACTERISTICS

POV	VER CLASS			395	400	405	410	415
MIN	IMUM PERFORMANCE AT STANDAR	D TEST CONDITIO	NS, STC1 (POWER TOLERANCE +	5W/-0W)			
	Power at MPP ¹	P _{MPP}	[W]	395	400	405	410	415
-	Short Circuit Current ¹	I _{SC}	[A]	11.13	11.16	11.19	11.22	11.26
퉏.	Open Circuit Voltage ¹	V _{oc}		45.03	45.06	45.09	45.13	45.16
Minimum	Current at MPP	I _{MPP}	[A]	10.58	10.64	10.70	10.76	10.82
2	Voltage at MPP	V _{MPP}	[V]	37.32	37.59	37.85	38.11	38.37
	Efficiency ¹	η	[%]	≥20.1	≥20.4	≥20.6	≥20.9	≥21.1
MIN	IMUM PERFORMANCE AT NORMAL	OPERATING CONE	ITIONS, N	IMOT ²				
	Power at MPP	P _{MPP}	[W]	296.4	300.1	303.9	307.6	311.4
Ę	Short Circuit Current	I _{sc}	[A]	8.97	8.99	9.02	9.04	9.07
Ē	Open Circuit Voltage	V _{oc}	[V]	42.46	42.49	42.52	42.56	42.59
2	Current at MPP	I _{MPP}	[A]	8.33	8.38	8.43	8.48	8.53
	Voltage at MPP	V_{MPP}	[V]	35.59	35.82	36.04	36.27	36.49

 $^1\text{Measurement tolerances P}_{\text{MPP}} \pm 3\%; |_{\text{SC}}; \text{V}_{\text{OC}} \pm 5\% \text{ at STC}; \\ 1000 \text{W/m}^2, 25 \pm 2\text{°C}, \text{AM 1.5 according to IEC 60904-3} \cdot ^2800 \text{W/m}^2, \text{NMOT, spectrum AM 1.5} \\ 1000 \text{NM} + 2000 \text{NM} + 20000 \text{NM} + 2000 \text{NM} + 2000 \text{NM} + 2000 \text{NM} + 2000 \text{NM} + 2$

Q CELLS PERFORMANCE WARRANTY



At least 98% of nominal power dur-ing first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to

All data within measurement tolerwith the warranty terms of the Q CELLS sales organisation of your



Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²).

PACKAGING INFORMATION

EMPERATURE COEFFICIENTS								
Temperature Coefficient of I _{sc}	α	[%/K]	+0.04	Temperature Coefficient of Voc	β	[%/K]	-0.27	
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°C]	43±3	

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage	V _{sys}	[V]	1000	PV module classification	Class II
Maximum Reverse Current	IR	[A]	20	Fire Rating based on ANSI/UL 61730	C/TYPE 2
Max. Design Load, Push / Pull		[Pa]	3600/2660		-40°C - +85°C
Max. Test Load. Push / Pull		[Pa]	5400/4000	on Continuous Duty	

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and

Sonnenallee 17-21, 06766 Bitterfeld-Wolfen, Germany | TEL +49 (0)3494 66 99-23444 | FAX +49 (0)3494 66 99-23000 | EMAIL sales@q-cells.com | WEB www.q-cells.com

QUALIFICATIONS AND CERTIFICATES



				KO	24t N
Horizontal packaging	1940mm	1100mm	1220mm	751kg	28 pallets











DRAWN BY

SHEET NUMBER

Engineered in Germany

IEC 61215:2016: IEC 61730:2016.

This data sheet complies with DIN EN 50380.

use of this product.

Hanwha Q CELLS GmbH

QCELLS

2425 WEST MCKINLEY AVENUE, MILWAUKEE, WI 53205, USA MOISES DE LOS SANTO

RESOURCE DOCUMENT

REVIEWED BY

R-001

Single Phase Inverter with HD-Wave Technology

for North America

SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US





Optimized installation with HD-Wave technology

- Specifically designed to work with power optimizers
- Record-breaking efficiency

solaredge.com

- Fixed voltage inverter for longer strings
- / Integrated arc fault protection and rapid shutdown for / Optional: Revenue grade data, ANSI C12.20 NEC 2014 and 2017, per article 690.11 and 690.12
- UL1741 SA certified, for CPUC Rule 21 grid compliance

- Extremely small
- Built-in module-level monitoring
- Outdoor and indoor installation
- Class 0.5 (0.5% accuracy)

12-25

solaredge

INVERTERS

/ Single Phase Inverter with HD-Wave Technology for North America SE3000H-US / SE3800H-US / SE5000H-US / SE6000H-US/

SE7600H-US / SE10000H-US / SE11400H-US

	SE3000H-US	SE3800H-US	SE5000H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US				
OUTPUT											
Rated AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA			
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	5000	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	VA			
AC Output Voltage MinNomMax. (211 - 240 - 264)	✓	✓	<u>,</u>	✓	1	✓	✓	Vac			
AC Output Voltage MinNomMax. (183 - 208 - 229)	ia .	✓	_ =	V	83	-	✓	Vac			
AC Frequency (Nominal)		-1		59.3 - 60 - 60.5 ⁽¹⁾		`		Hz			
Maximum Continuous Output Current @240V	12.5	16	21	25	32	42	47.5	А			
Maximum Continuous Output Current @208V	:=	16		24			48.5	А			
GFDI Threshold			_	4.				A			
Utility Monitoring, Islanding Protection, Country Configurable Thresholds		Yes									
INPUT											
Maximum DC Power @240V	4650	5900	7750	9300	11800	155.00	17650	W			
Maximum DC Power @208V	14	5100	-	7750		-	15500	W			
Transformer-less, Ungrounded				Yes			4				
Maximum Input Voltage		480									
Nominal DC Input Voltage		380 400									
Maximum Input Current @240V ^a	8.5	10.5	13.5	16.5	20	27	30.5	Add			
Maximum Input Current @208V ²	iā	9	-	13.5	270	-	27	Add			
Max. Input Short Circuit Current		45									
Reverse-Polarity Protection				Yes				1			
Ground-Fault Isolation Detection				600kΩ Sensitivity							
Maximum Inverter Efficiency	99			Ç	99.2			%			
CEC Weighted Efficiency			ğ	99			99 @ 240V 98.5 @ 208V	%			
Nighttime Power Consumption				< 2.5				W			
ADDITIONAL FEATURES	-							A			
Supported Communication Interfaces			RS485, Etherne	t, ZigBee (optional), (Cellular (optional)			T			
Revenue Grade Data, ANSI C12.20				Optional ⁽³⁾	S-1110-11-11-11-11-11-11-11-11-11-11-11-1	-					
Rapid Shutdown - NEC 2014 and 2017 690.12			Automatic Rap	id Shutdown upon AC	Grid Disconnect						
STANDARD COMPLIANCE											
Safety		UL1741	, UL1741 SA, UL1699B,	CSA C22.2, Canadia	n AFCI according to 1	II.L. M-07					
Grid Connection Standards			IEE	E1547, Rule 21, Rule 1	4 (HI)						
Emissions				FCC Part 15 Class B	(
INSTALLATION SPECIFICAT	IONS							-			
AC Output Conduit Size / AWG Range		3/	4" minimum / 14-6 A\	WG		3/4" minimu	m / 14-4 AWG				
DC Input Conduit Size / # of Strings / AWG Range		3/4" mir	nimum / 1-2 strings / 1	4-6 AWG		3/4" minimum / 1-:	3 strings / 14-6 AWG				
Dimensions with Safety Switch (HxWxD)		17.7 x	14.6 x 6.8 / 450 x 37	0 x 174		21.3 x 14.6 x 7.3	/ 540 x 370 x 185	in /			
Weight with Safety Switch	22,	10	25.1 / 11.4	26.2	/11.9	38.8	/ 17.6	lb/k			
Noise		<	25			<50		dBA			
Cooling				Natural Convection	()						
Operating Temperature Range			-40 to +140 /	-25 to +60 ⁽⁴⁾ (-40°F /	-40°C option)(5)			*F/*			
Protection Rating			NEMA	4X (Inverter with Safe	ty Switch)			1			

For other regional settings please contact SolarEdge support
 A higher current source may be used; the inverter will limit its input current to the values stated
 Revenue grade inverter P/N Spoxod+L2000NNC2
 For power de-rating information refer to: https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf

RoHS

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LOS SANTOS

SHEET TITLE RESOURCE **DOCUMENT**

MAK DRAWN BY **REVIEWED BY**

SHEET NUMBER

R-002

Power Optimizer

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505





PV power optimization at the module-level

- Specifically designed to work with SolarEdge
- / Up to 25% more energy
- Superior efficiency (99.5%)
- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial
- Flexible system design for maximum space utilization

- / Fast installation with a single bolt
- Next generation maintenance with modulelevel monitoring
- / Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety



/ Power Optimizer For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505

1320/1310	, 13,0,	1 100 /	1 101/	1 100 / 1	105 / 1	505			
Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high- power 60-cell modules)	P370 (for higher- power 60 and 72- cell modules)	P400 (for 72 & 96-cell modules)	P401 (for high power 60 and 72 cell modules)	P405 (for high- voltage modules)	P485 (for high- voltage modules)	P505 (for higher current modules)	
INPUT				,	140		N.	1.00	
Rated Input DC Power®	320	340	370	- 2	004	405	485	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	4	48 60 80 60 125 [©]		25@	83 [©]	Vdc			
MPPT Operating Range	8 -	8 - 48 8 - 60 8 - 80 8 - 60 12.5 - 10		- 105	12.5 - 83	Vdc			
Maximum Short Circuit Current (Isc)		11		10.1	11.75	11		14	Adc
Maximum DC Input Current		13.75		12.5	14.65	12.5 17		17.5	Adc
Maximum Efficiency		99.5						%	
Weighted Efficiency		98.8 98.6						%	
Overvoltage Category									
OUTPUT DURING OPER	ATION (POV	VER OPTIMI	ZER CONNEC	TED TO OPE	RATING SOL	AREDGE IN	VERTER)		
Maximum Output Current	1	15							Ado
Maximum Output Voltage		60 85						Vdc	
OUTPUT DURING STAND	DBY (POWER	OPTIMIZER	DISCONNECT	ED FROM S	OLAREDGE IN	VERTER OR	SOLAREDG	E INVERTER O	OFF)
Safety Output Voltage per Power Optimizer		Y (POWER OPTIMIZER DISCONNECTED FROM SOLAREDGE INVERTER OR SOLAREDGE INVERTER OF 1 ± 0.1							Vdc
STANDARD COMPLIAN	CE								-
EMC			FCC Pa	ert15 Class B. IEC6	1000-6-2. IEC6100	0-6-3			
Safety		FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3 IEC62109-1 (class II safety), UL1741							
Material		UL94 V-0 , UV Resistant							
RoHS		Yes							
INSTALLATION SPECIFIC	CATIONS			1150					-
Maximum Allowed System Voltage		1000							Vdc
Compatible inverters		All SolarEdge Single Phase and Three Phase inverters							
Dimensions (W x L x H)	129	x 153 x 27.5 / 5.1	x 6 x 1.1	129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 /5.1 x 6 x 1.16	129 x 159 x 49.	5 / 5.1 x 6.3 x 1.9	129 x 162 x 59 / 5.1 x 6.4 x 2.3	mm / in
Weight (including cables)		630 / 1.4		750 / 1.7	655 / 1.5	845	/ 1.9	1064 / 2.3	gr/l
Input Connector		MC4			Single or dual MC4 ⁽³⁾ MC4 ⁽³⁾				
Input Wire Length				0.16 /	0.52				m/f
Output Wire Type / Connector		Double Insulated / MC4							
Output Wire Length	0.9 /	0.9 / 2.95 1.2 / 3.9							m/t
Operating Temperature Range ⁽⁵⁾		-40 - +85 / -40 - +185						°C/	
Protection Rating		IP68 / NEMA6P							
Relative Humidity		0 - 100							0/_

(1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed (2) NEC 2017 requires max input voltage be not more than 80V

(3) For other connector types please contact. SolarEdge
(4) For dual version for parallel connection of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected.

to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals.

(5) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.

PV System D a SolarEdge	esign Using Inverter ⁽⁶⁾⁽⁷⁾	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length	P320, P340, P370, P400, P401	8		10	18	
(Power Optimizers)	P405, P485, P505	6		8	14	
Maximum String Length (Pow	tring Length (Power Optimizers)		25		50(8)	
Maximum Power per String		5700 (6000 with SE7600-US - SE11400- US)	5250	6000 ⁽⁵⁾	12750(10)	W
Parallel Strings of Different Ler	ngths or Orientations	Yes				

(6) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf
(7) It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400/P401 in one string
(8) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement
(9) For 2089 grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 1,000W
(10) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W

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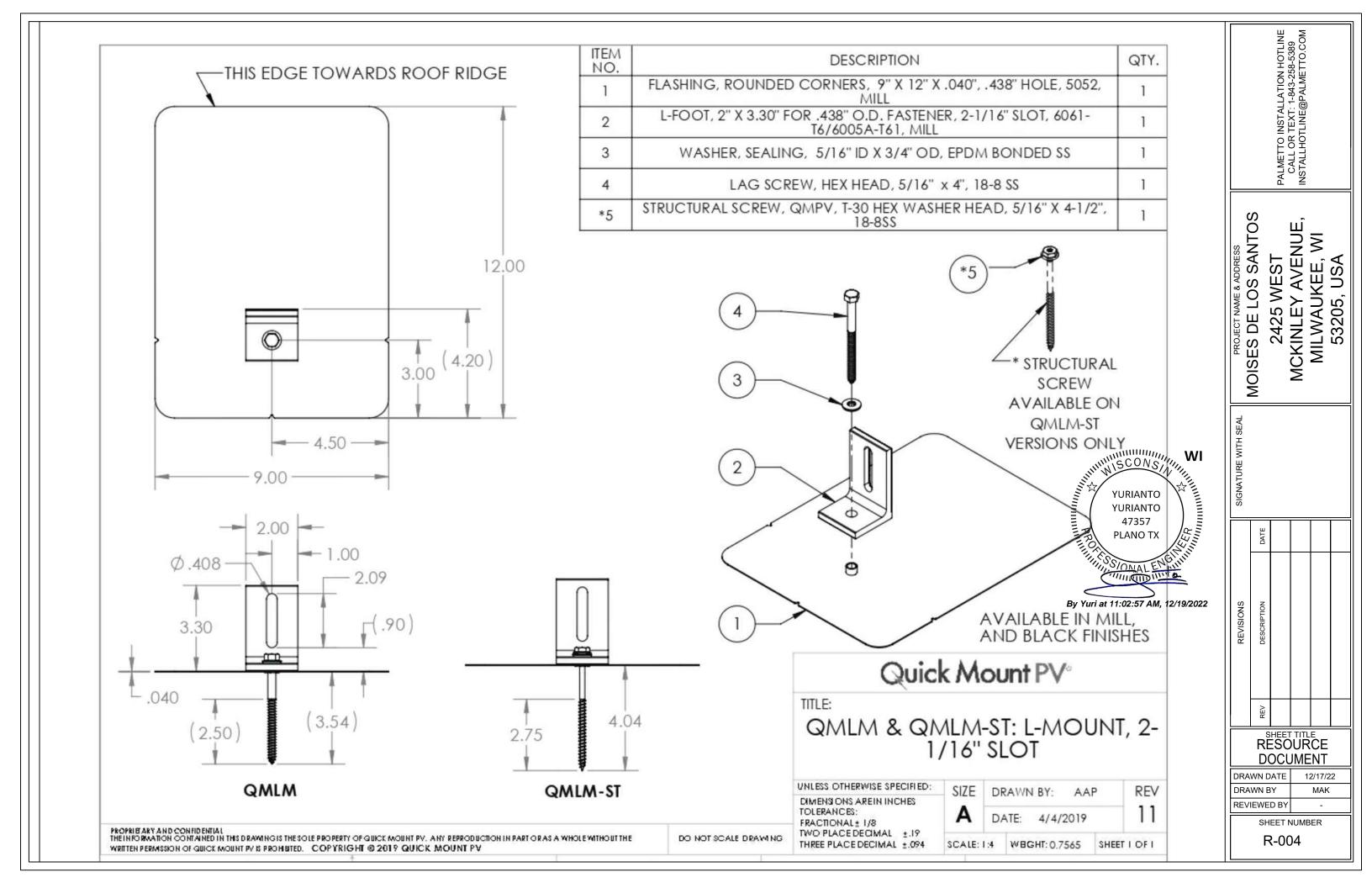
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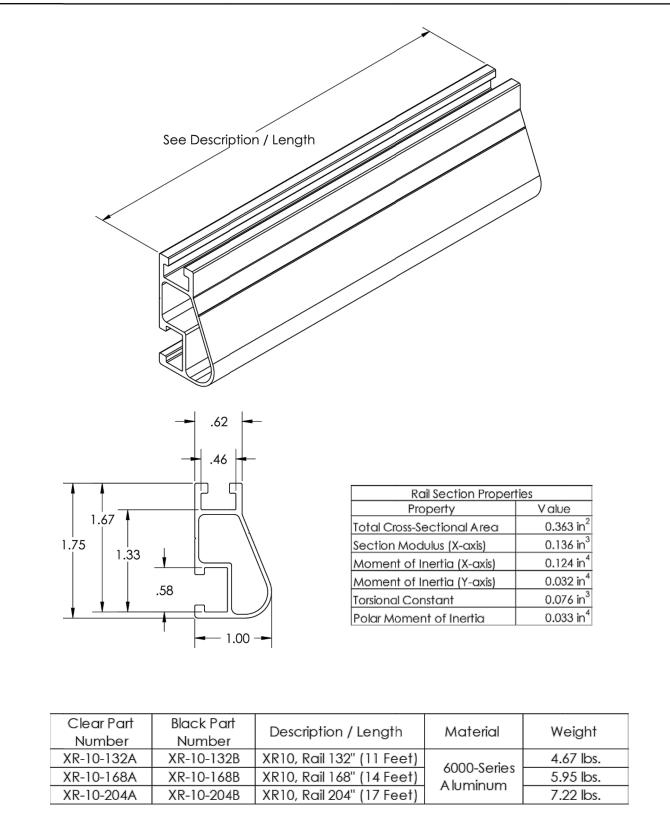
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Cut Sheet



XR10 Rail





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PROJECT NAME & ADDRESS

MOISES DE LOS SANTOS

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SHEET TITLE RESOURCE DOCUMENT

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SHEET NUMBER
R-005