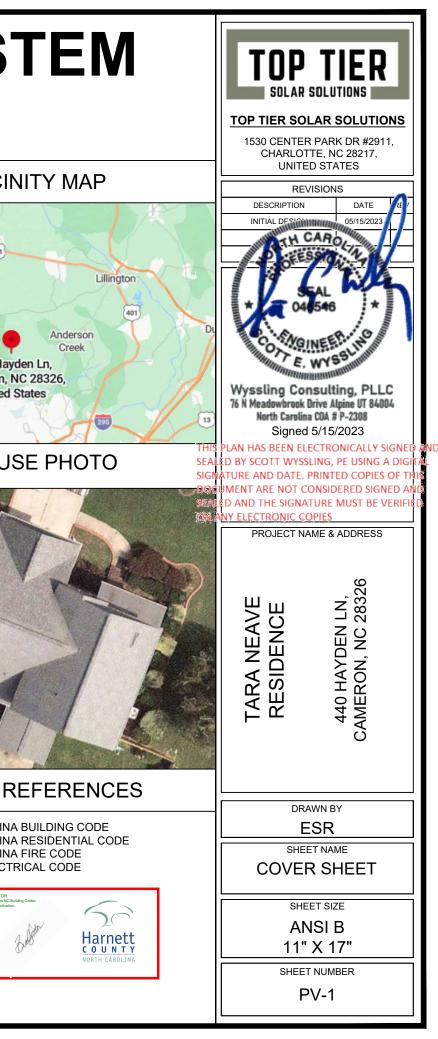
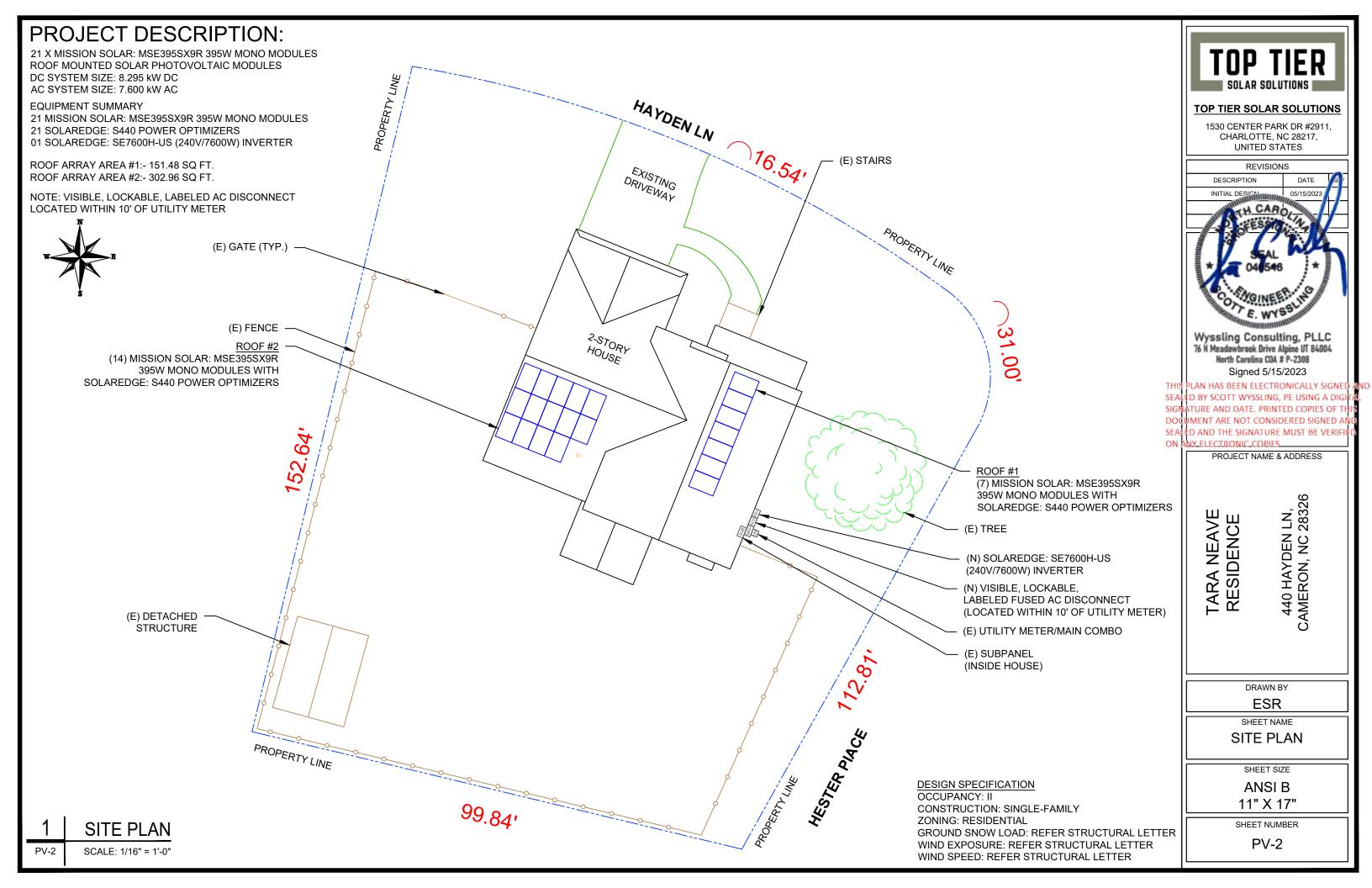
PHOTOVOLTAIC ROOF MOUNT SYSTEM

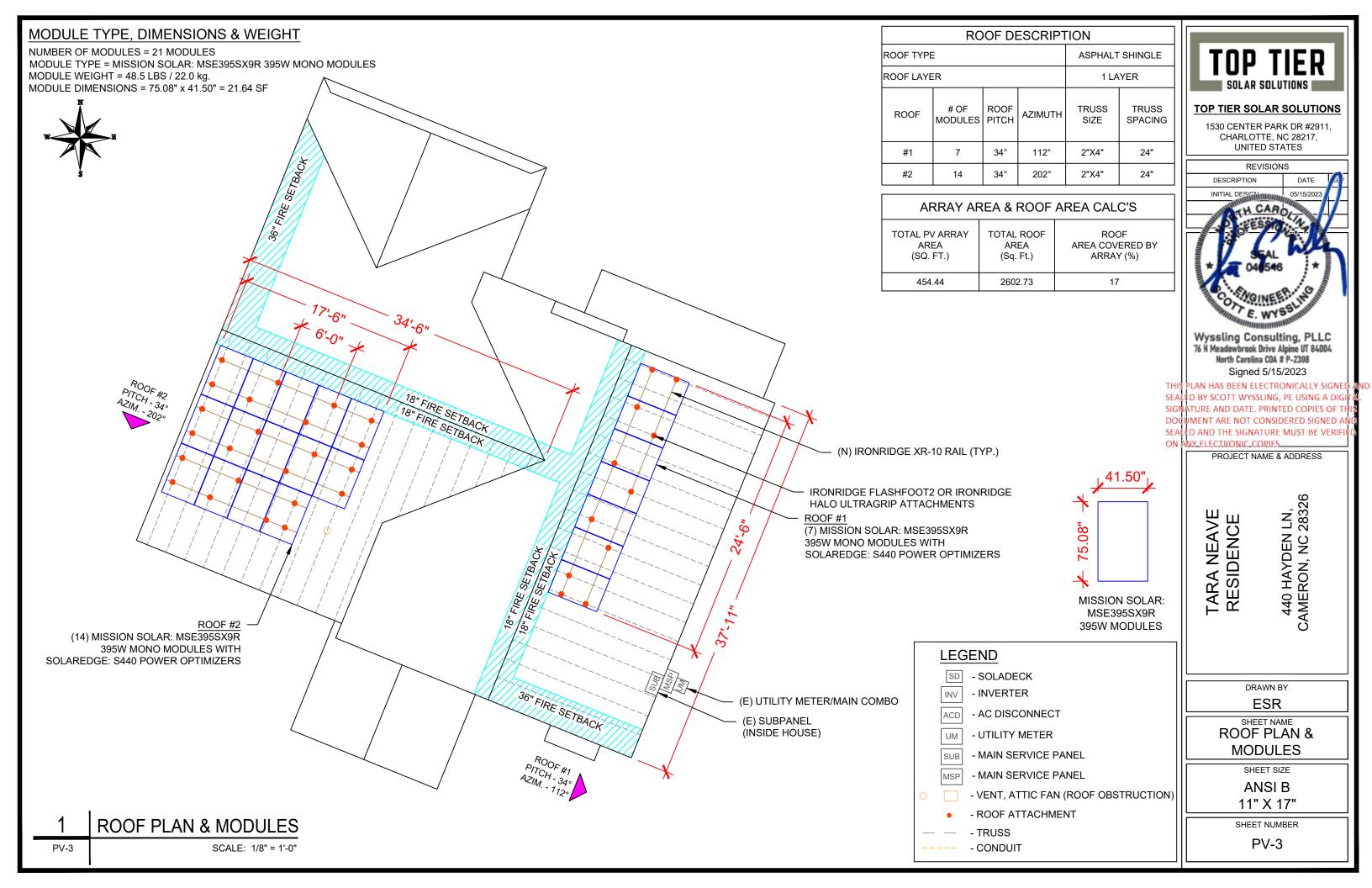
21 MODULES-ROOF MOUNTED - 8.295 kW DC, 7.600 kW AC

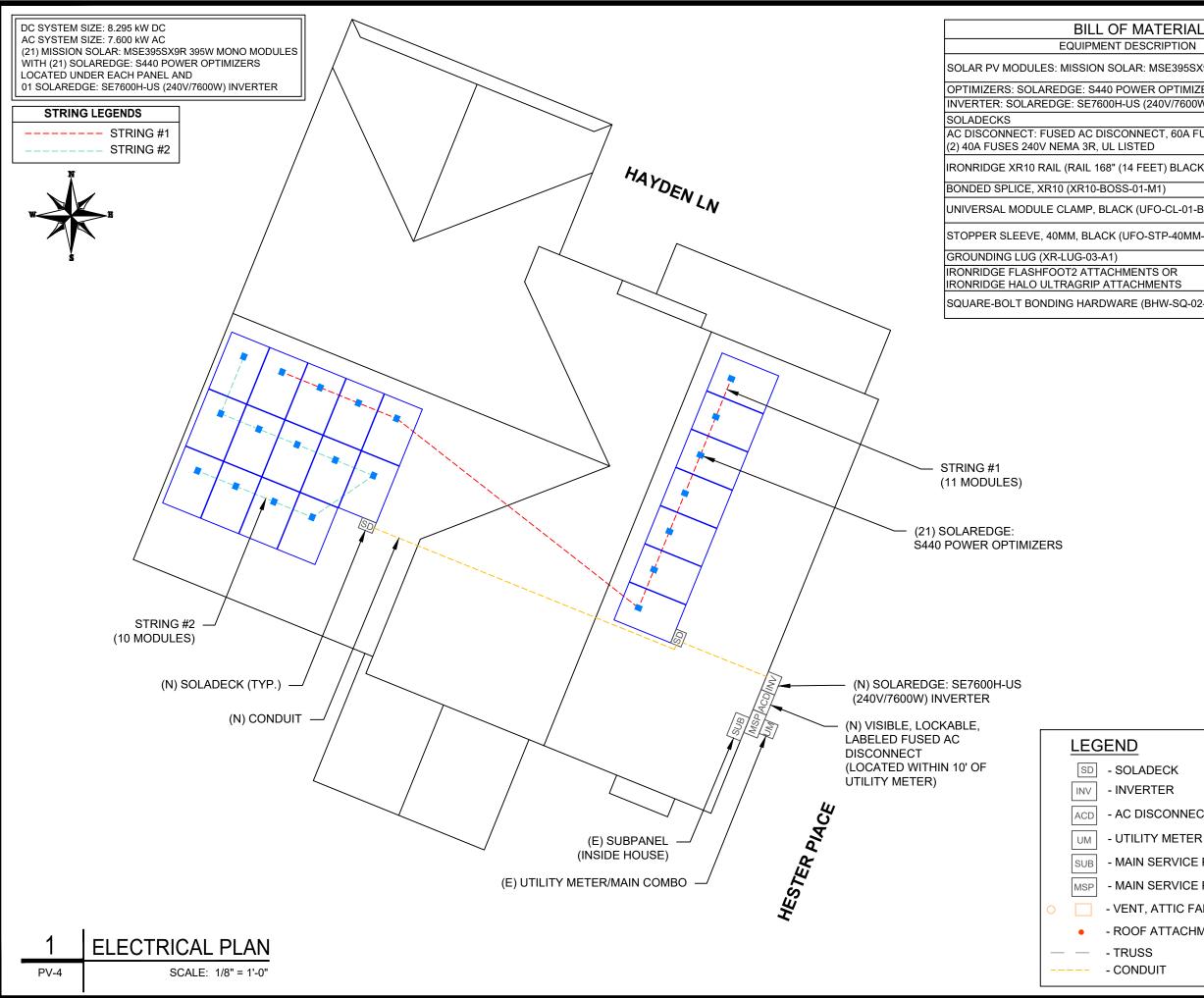
440 HAYDEN LN, CAMERON, NC 28326

PROJECT D	DATA	GENERAL NOTES	VICIN
PROJECT 440 HAYDEN ADDRESS CAMERON, N OWNER: TARA NEAVE DESIGNER: ESR SCOPE: 8.295 KW DC ROOF MOUN SOLAR PV SYSTEM WITH 21 MISSION SOLAR: MSE3 PV MODULES WITH 21 SOLAREDGE: S440 PO' 01 SOLAREDGE: SE7600H INVERTER AUTHORITIES HAVING JURISDIG BUILDING: HARNETT COUNTY	IC 28326 2 3 4 IT 5 3955X9R 395W 6 WER OPTIMIZERS AND 7 I-US (240V/7600W) 7	 ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED. THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2017. THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION. ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY. WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT. HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24. A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVICE ENTRANCE. IF EXISTING SYSTEM IN INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE GROUNDING ELECTRODE SYSTEM. 	Sanford 421 440 Hay Cameron, N United S
<td>ULES 11 ULES 11 UL 14 DIAGRAM ONS 11 FICATIONS 10</td> <td> PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PREMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE. ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)] ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12 </td> <td></td>	ULES 11 ULES 11 UL 14 DIAGRAM ONS 11 FICATIONS 10	 PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PREMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE. ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)] ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12 	
<u>SIGNATURE</u>	2	 BISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)] ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31 WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3). ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703 ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC. 	CODE R 2018 NORTH CAROLINA 2018 NORTH CAROLINA 2018 NORTH CAROLINA 2017 NATIONAL ELECT MOTE TO CONTRACTOR A DIAGON AND A DIAGONAL DIAGONAL MARKAN AND A DIAGONAL DIAGONAL DIAGONAL MARKAN AND A DIAGONAL DIAGONAL DIAGONAL MARKAN AND A DIAGONAL DIAGONAL DIAGONAL DIAGONAL MARKAN AND A DIAGONAL DIAGONAL DIAGONAL DIAGONAL DIAGONAL MARKAN AND A DIAGONAL DIAGONAL DIAGONAL DIAGONAL DIAGONAL DIAGONAL MARKAN AND A DIAGONAL DIAGONAL MARKAN AND A DIAGONAL DIAGON









TERIALS	
RIPTION	QTY
MSE395SX9R 395W MODULE	21
ROPTIMIZERS	21
40V/7600W) INVERTER	01
	2
CT, 60A FUSED,)	1
ET) BLACK) (XR-10-168B)	16
<i>M</i> 1)	8
O-CL-01-B1)	50
STP-40MM-B1)	16
	4
S OR IENTS	46
HW-SQ-02-A1)	46



TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS									
DESCRIPTION	DATE	REV							
INITIAL DESIGN	05/15/2023								

PROJECT NAME & ADDRESS

TARA NEAVE RESIDENCE

440 HAYDEN LN, CAMERON, NC 28326

- AC DISCONNECT

- MAIN SERVICE PANEL

- MAIN SERVICE PANEL

- VENT, ATTIC FAN (ROOF OBSTRUCTION)

- ROOF ATTACHMENT

SHEET NUMBER

PV-4

11" X 17"

ANSI B

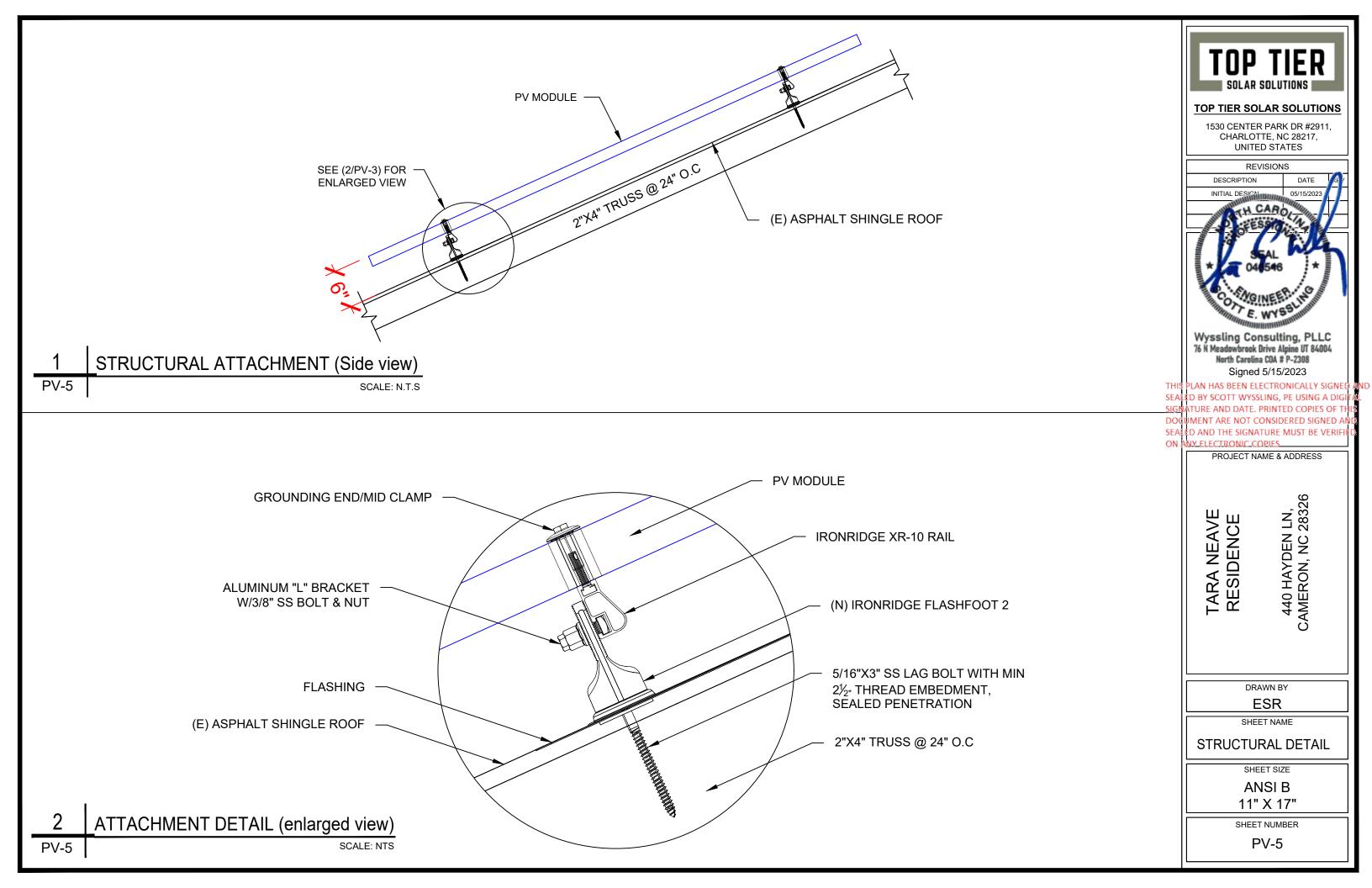
SHEET SIZE

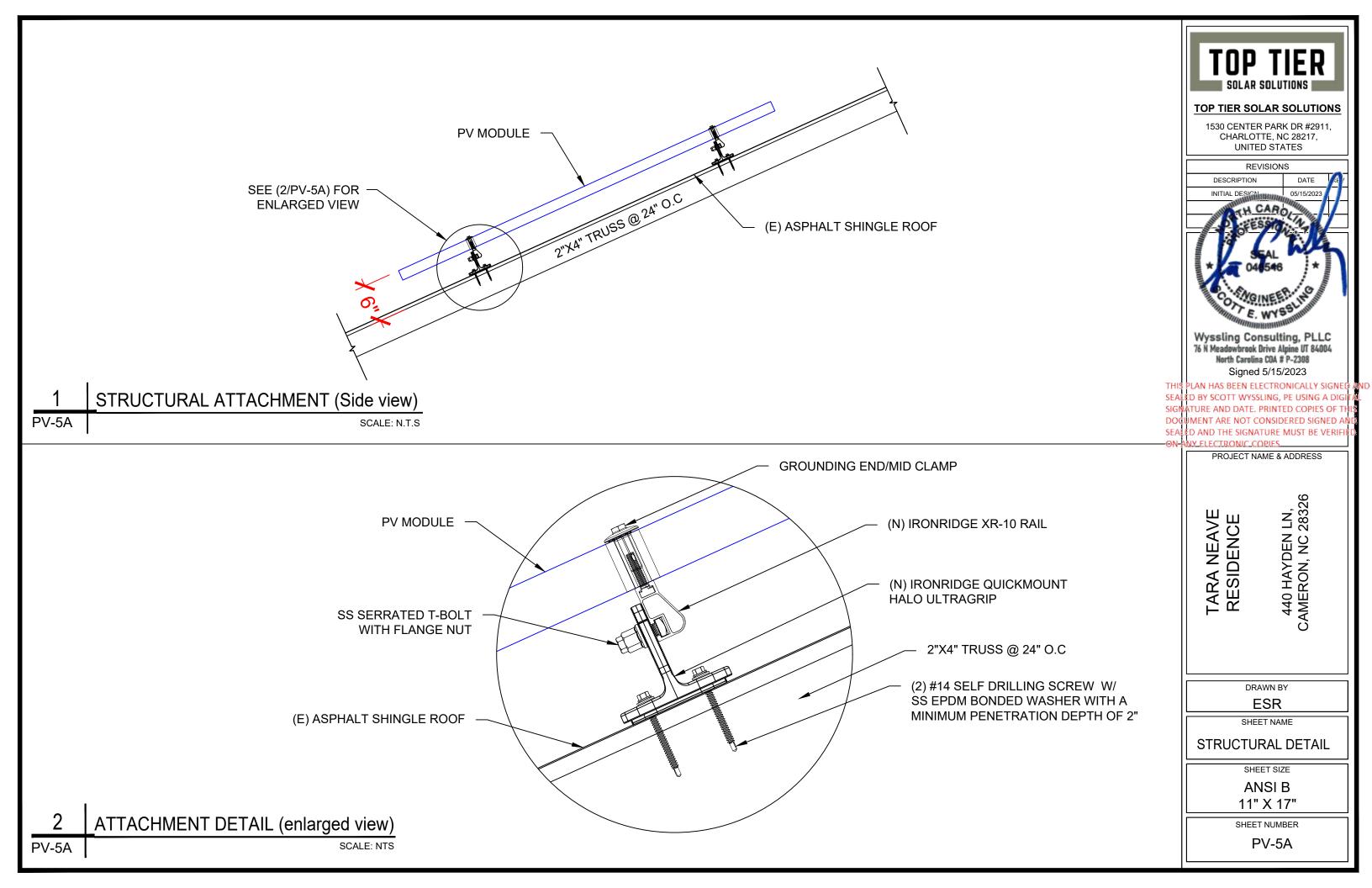
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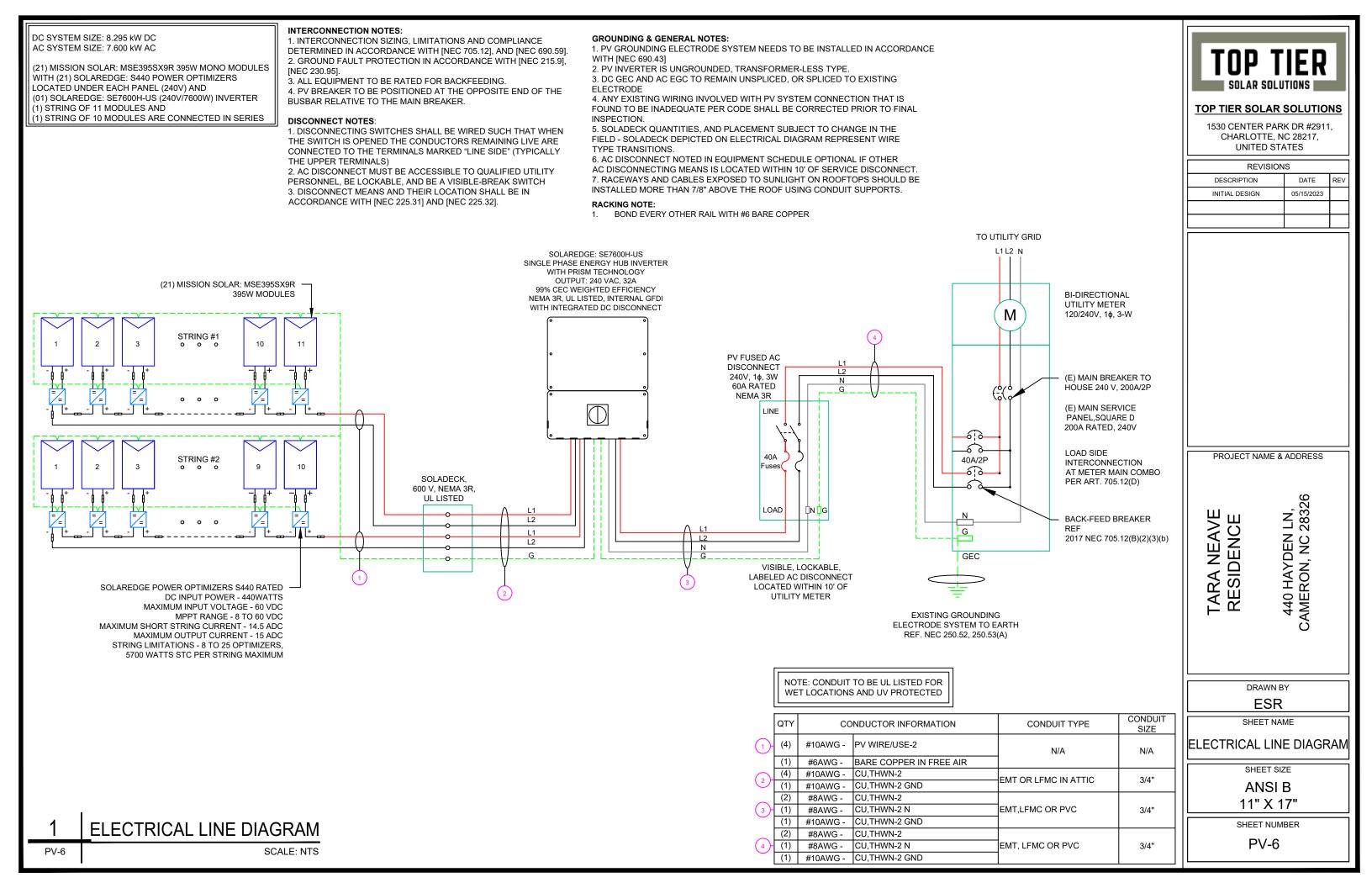
ESR

SHEET NAME

ELECTRICAL PLAN







SOLAR N	IODULE SPECIFICATIONS		INVERTE	R SPECIFICATIONS		AMBIENT TEMPERATURE SPEC	S
MANUEACTURER / MODEL #	MISSION SOLAR: MSE395SX9R 395W MODULE	MANUFACTURER	MODEL #	SOLAREDGE: SE7600H- INVERTER	US (240V/7600W)	AMBIENT TEMP (HIGH TEMP 2%) RECORD LOW TEMPERATURE	
		NOMINAL AC POW		7.600 kW		MODULE TEMPERATURE COEFFICIENT OF Voc	-0.259%/°C
VMP	36.99V	NOMINAL OUTPUT		240 VAC 32A		-	
IMP VOC	10.68A 45.18V	PERCENT OF	-	ER OF CURRENT]	-	
ISC	11.24A	VALUES .80	CARRYING	CONDUCTORS IN EMT 4-6	-		
TEMP. COEFF. VOC MODULE DIMENSION	-0.259%/°C 75.08"L x 41.50"W x 1.57"D (In Inch)	.70		7-9	1		
		.50		10-20			

										AC FEEDE	R CALCULATI	ONS						
CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	NEUTRAL SIZE	GROUND SIZE	CONDUCTOR SIZE	75℃ AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	CONDUCTORS	90°C ΔΜΡΔΟΙΤΥ (Δ)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	AMPACITY		FEEDER LENGTH (FEET)
INVERTER 1	AC DISCONNECT	240	32	40	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5
AC DISCONNECT	POI	240	32	40	40	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5

CUMULA

I		DC FEEDER CALCULATIONS																	
	CIRCUIT ORIGIN	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	FLA*1.25 (A)	OCPD SIZE (A)	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTO RS IN RACEWAY	AMPACITY (A)	FOR AMBIENT	DERATION FACTOR FOR CONDUCTORS PER RACEWAY NEC 310.15(B)(3)(a)	90°C AMPACITY DERATED (A)	AMPACITY CHECK #2	FEEDER LENGTH (FEET)	CON RESI (OH
	STRING 1	SOLADECK	380	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1
	STRING 2	SOLADECK	380	15.00	18.75	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1
	SOLADECK	INVERTER	380	15.00	18.75	20	CU #10 AWG	CU #10 AWG	35	PASS	38	4	40	0.91	0.8	29.12	PASS	30	

String 1 Vol String 2 Vol

ELECTRICAL NOTES

- 1. ALL EQUIPMENT TO BE LISTED BY UL OR OTHER NRTL, AND LABELED FOR ITS APPLICATION.
- 2. ALL CONDUCTORS SHALL BE COPPER, RATED FOR 600 V AND 90 DEGREE C WET ENVIRONMENT.
- 3. WIRING, CONDUIT, AND RACEWAYS MOUNTED ON ROOFTOPS SHALL BE ROUTED DIRECTLY TO, AND LOCATED AS CLOSE AS POSSIBLE TO THE NEAREST RIDGE, HIP, OR VALLEY.
- 4. WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH NEC 110.26.
- 5. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES AND STANDARDS.
- 6. WHERE SIZES OF SOLADECK, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- 7. ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- 8. MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE GROUNDING CLIP MANUFACTURER'S INSTRUCTION.
- 9. MODULE SUPPORT RAIL TO BE BONDED TO CONTINUOUS COPPER G.E.C. VIA WEEB LUG OR ILSCO GBL-4DBT LAY-IN LUG.
- 10. TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.

					-				_
I RE	DNDUCT ESISTAN DHM/KI		CONDUIT	CONDUIT FILL (%)		TOP TIEF 1530 CE CHA	LAR SOLU SOLAR ENTER PAR RLOTTE, N JNITED ST/ REVISION PTION	SOLUTIO K DR #2911 IC 28217, ATES	NS
	0.778 0.778		3/4" EMT 3/4" EMT	24.5591 24.5591					
	OLTAG			2					
NIVE V	JEIAG	0.207							
CONDU RESIST/ (OHM/ 1.2 1.2 1.2 1.2	ANCE /KFT) 4 4 4	VOLTAGE DROP AT FLA (%) 0.049 0.049 0.294 0.343	CONDUIT SIZE N/A N/A 3/4" EMT	CONDUIT FILL (%) #N/A #N/A 19.79362					
tage D	rop	0.343					CT NAME &	ADDRESS	
					_	TARA NEAVE RESIDENCE		440 HAYDEN LN, CAMERON, NC 28326	
							DRAWN E		
							SHEET NA		
						WIRING		JLATION	IS
							SHEET SIZ	В	
							11" X 1	7"	
						5	BHEET NUM	BER	
					11				

PHOTOVOLTAIC POWER SOURCE

EVERY 10' ON CONDUIT & ENCLOSURES

LABEL- 1: <u>LABEL LOCATION:</u> EMT/CONDUIT RACEWAY SOLADECK / JUNCTION BOX CODE REF: NEC 690.31 (D)(2)

ELECTRIC SHOCK HAZARD

TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL- 2: <u>LABEL LOCATION:</u> AC DISCONNECT INVERTER MAIN SERVICE PANEL SUBPANEL MAIN SERVICE DISCONNECT CODE REF: NEC 690.13(B)

DUAL POWER SUPPLY

SOURCE: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

LABEL- 3: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59

SOLAR PV BREAKER:

BREAKER IS BACKFED DO NOT RELOCATE

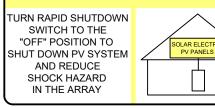
LABEL-4: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL CODE REF: NEC 705.12(C) & NEC 690.59



CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL- 5: <u>LABEL LOCATION:</u> MAIN SERVICE PANEL (ONLY IF SOLAR IS BACK-FED) SUBPANEL (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 705.12(B)(3)(2)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN



LABEL- 6: <u>LABEL LOCATION:</u> AC DISCONNECT CODE REF: [NEC 690.56(C)(1)(A)]

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL- 7: <u>LABEL LOCATION:</u> AC DISCONNECT MAIN SERVICE PANEL CODE REF: NEC 690.56(C)(2)

DC DISCONNECT

LABEL- 8: LABEL LOCATION: INVERTER CODE REF: NEC 690.13(B)



LABEL - 9: <u>LABEL LOCATION:</u> INVERTER CODE REF: NEC 690.53

AC DISCONNECT								
PHOTOVOLTAIC SYSTEM								
POWER SOURCE								
NOMINAL OPERATING AC VOLATGE	240 V							
RATED AC OUTPUT CURRENT	32 A							

LABEL- 10: LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.54

TOP TIER SOLAR SOLUTIONS SOLAR SOLUTIONS DOP TIER SOLAR SOLUTIONS TOP TIER SOLAR SOLUTIONS REVISIONS DESCRIPTION DATE TINITIAL DESIGN OS/15/2023 OS/15/2023 OS/15/2023 PROJECT NAME & ADDRESS ON NOR SOLUTION NOR SOLUTIONS											
1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES REVISIONS DESCRIPTION DATE INITIAL DESIGN 05/15/2023 DESCRIPTION DATE INITIAL DESIGN DESCRIPTION DATE REVISIONS DESCRIPTION DATE INITIAL DESIGN OS											
CHARLOTTE, NC 28217, UNITED STATES	TOP TIER SOLAR SOLUTIONS										
UNITED STATES											
REVISIONS DESCRIPTION DATE REV INITIAL DESIGN 05/15/2023 Initial design INITIAL DESIGN Initial design Initial design INITIAL DESIGN Initial design											
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PROJECT NAME & ADDRESS											
26	INITIAL DESIGN	05/15/2023									
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	ESR										
ESR SHEET NAME LABELS											
ESR SHEET NAME LABELS SHEET SIZE											
ESR SHEET NAME LABELS	SHEET NUM	BER									
ESR SHEET NAME LABELS SHEET SIZE ANSI B	PV-8										

MSE PERC 66







FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 30 with 84.08% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS



If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.

UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

C-SA2-MKTG-0027 REV 4 03/18/2022

True American Quality True American Brand

MISSION SOLAR

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term.

Demand the best. Demand Mission Solar Energy.



Certified Reliability

- Tested to UL 61730 & IEC Standards PID resistant
- Resistance to salt mist corrosion

Advanced Technology

- 9 Bushar
- Passivated Emitter Rear Contact Ideal for all applications

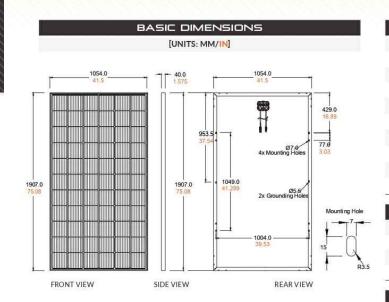
- Extreme Weather Resilience
- Up to 5,400 Pa front load & 3,600 Pa back load Tested load to UL 61730
- 40 mm frame

BAA Compliant for Government Projects

- - Buy American Act American Recovery & Reinvestment Act



Class Leading 390-400W



CURRENT-VOLTAGE CURVE

MSE3855X9R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature

Irrd. = 1000 W/m²

Irrd. = 800 W/m2

Irrd. = 600 W/m

Irrd. = 400 W/m

Irrd. = 200 W/m

61215, 61730, 61701

c(VL)us

VOLTAGE (V)

CERTIFICATIONS AND TESTS

CEC

61730

IEC

UL

Mission Solar Energy

C-SA2-MKTG-0027 REV 4 03/18/2022

8303 S. New Braunfels Ave., San Antonio, Texas 78235

Mission Solar Energy reserves the right to make specification changes without notice.

www.missionsolar.com | info@missionsolar.com

Incident

Incident

Incident

Incident

Incident

Cells Temp. =25 °C

12

3

ELECTRICAL SPECIFICATION

PRODUCT TYPE	MSE	xxx SX	9R (<mark>xxx</mark> = P	'max)	
Power Output	Pmax	Wp	390	395	400
Module Efficiency		%	19.4	19.7	19.9
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	lsc	А	11.19	11.24	11.31
Open Circuit Voltage	Voc	V	45.04	45.18	45.33
Rated Current	Imp	А	10.63	10.68	10.79
Rated Voltage	Vmp	V	36.68	36.99	37.07
Fuse Rating		А	20	20	20
System Voltage		V	1,000	1,000	1,000

TEMPERATURE COEFFICIENTS

Normal Operating Cell Ten Temperature C Temperature Temperature

OPERAT

Maximum System Volta **Operating Temperature Rang** Maximum Series Fuse Ratin Fire Safety Classificatio

> Front & Back Loa (UL Standar

Hail Safety Impact Veloci

*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire rating. Please note, the 'Fire Class' Rating is designated for the fully-installed PV system, which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

	ΞHΛ
	P-ty
ų.	66 c
	1,90
2	48.5
	3.2n
-5	40m
1000	Ethy
	Prot
100	1.2n
	Stau MC4

S	HIPPING	INFOR		N
Container Feet	Ship To	Pallet	Panels	390W Bin
53'	Most States	30	780	304.20 kW
Double Stack	CA	26	676	263.64 kW
	PALLE	T [26 PAN	ELS]	
Weight 1,300 lbs. (572 kg)	Height 47.56 in (120.80 cm) (1:	Width 46 in L6.84 cm)	Length 77 in (195.58 cm

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MSE PERC 66

mperature (NOCT)	43.75°C (±3.7%)
oefficient of Pmax	-0.367%/°C
Coefficient of Voc	-0.259%/°C
e Coefficient of Isc	0.033%/°C

IN	5 CONDITIONS	
ge	1,000Vdc	
ge	-40°F to 185°F (-40°C to +85°C)	
ng	20A	
on	Type 1*	
ad rd)	Up to 5,400 Pa front and 3,600 Pa back load, Tested to UL 61730	
ity	25mm at 23 m/s	

ANICAL DATA

pe mono-crystalline silicon

cells (6x11)

07mm x 1,054mm x 40mm

5 lbs. (22 kg)

mm tempered, low-iron, anti-reflective

mm Anodized

ylene vinyl acetate (EVA)

tection class IP67 with 3 bypass-diodes

m, Wire 4mm2 (12AWG)

ubli PV-KBT4/6II-UR and PV-KST4/6II-UR. 4, Renhe 05-8

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TOP TIER SOLAR SOLUTIO

TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS				
DESCRIPTION	DATE	REV		
INITIAL DESIGN	05/15/2023			

PROJECT NAME & ADDRESS

TARA NEAVE RESIDENCE 440 HAYDEN LN, CAMERON, NC 28326

DRAWN BY

ESR

SHEET NAME EQUIPMENT **SPECIFICATION**

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-9

Power Optimizer For Residential Installations

S440, S500



POWER \mathbf{O} PTIMIZ ノ

Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- J Detects abnormal PV connector behavior, preventing potential safety issues*
- Module-level voltage shutdown for installer and firefighter safety
- Superior efficiency (99.5%)

- / Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- **/** Faster installations with simplified cable management and easy assembly using a single bolt
- / Flexible system design for maximum space utilization
- / Compatible with bifacial PV modules

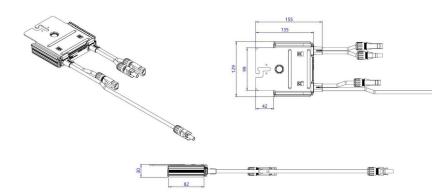
/ Power Optimizer For Residential Installations S440, S500

	S440	S500	UNI
Rated Input DC Power ^(I)	440	500	W
Absolute Maximum Input Voltage (Voc)	60		Vdc
MPPT Operating Range	8 - 60		Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	15	Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	Ш		
OUTPUT DURING OPERATION			
Maximum Output Current	15		Ado
Maximum Output Voltage	60		Vdo
OUTPUT DURING STANDBY (POWER OPTIMIZER DISC	CONNECTED FROM INVERTER OR IN	VERTER OFF)	
Safety Output Voltage per Power Optimizer	1		Vde
STANDARD COMPLIANCE			
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC	61000-6-3, CISPR11, EN-55011	
Safety	IEC62109-1 (class II safety), UL1741		
Material	UL94 V-0, UV R6	esistant	
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdd
Dimensions (W x L x H)	129 x 155 x	30	mm
Weight (including cables)	655 / 1.5		gr/
Input Connector	MC4 ⁽²⁾		
Input Wire Length	0.1		m
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0	.10	m
Operating Temperature Range ⁽³⁾	-40 to +85		°C
Protection Rating	IP68 / NEMA	\6P	
Relative Humidity	0 - 100		%

(2) For other connector types please contact SolarEdge
 (3) For ambient temperature above + 70°C / +158°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details

PV System Design Using a SolarEdge Inverter		Single Phase HD-Wave	Three Phase	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500	8	16	18	
Maximum String Length (Power Op	ptimizers)	25		50	
Maximum Nominal Power per Strir	ng ⁽⁴⁾	5700	11250(5)	12750(6)	W
Parallel Strings of Different Lengths	s or Orientations	Yes			

(4) If the inverters rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverters maximum input DC power Refer to: https://www.solaredge.com/sites/default/files/se-power-optimizer-single-string-design-application-note.pdf
 (5) For the 230/400V grid: it is allowed to install up to 13,500W per string when the maximum power difference between each string is 2,000W
 (6) For the 271/400V grid: it is allowed to install up to 13,000W per string when the maximum power difference between each string is 2,000W
 (7) It is not allowed to mix 5-series and P-series Power Optimizers in new installations



* Functionality subject to inverter model and firmware version



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solaredge.com



TOP TIER SOLAR SOLUTIONS

1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES

REVISIONS				
DESCRIPTION	DATE	REV		
INITIAL DESIGN	05/15/2023			

PROJECT NAME & ADDRESS

TARA NEAVE RESIDENCE

440 HAYDEN LN, CAMERON, NC 28326

DRAWN BY

ESR

SHEET NAME

EQUIPMENT

SPECIFICATION

SHEET SIZE

ANSI B 11" X 17"

SHEET NUMBER

PV-10

CE RoHS

Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾



Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- / Small, lightweight, and easy to install
- / Modular design, future ready with optional upgrades to:
- I DC-coupled storage for full or partial home backup
- Built-in consumption monitoring
- / Direct connection to the SolarEdge smart EV charger

- / Multi-inverter, scalable storage solution / With enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- I Embedded revenue grade production data, ANSI C12.20 Class 0.5

/ Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNI
OUTPUT - AC ON GRID							
Rated AC Power	3000	3800 @ 240V 3300 @ 208V	6000@240V 5000@208V	7600	10000	11400 @ 240V 10000 @ 208V	W
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
AC Frequency Range (min - nom - max)			59.3 - 60) - 60.5 ¹²¹			Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	A
Maximum Continuous Output Current @ 208V	-	16	24	-	2	48.5	A
GFDI Threshold			1				4
Total Harmonic Distortion (THD)			<	3			9
Power Factor			1, adjustable	-0.85 to 0.85			
Utility Monitoring,IslandingProtection,Country ConfigurableThresholds			Ye	es			
Charge Battery from AC (if allowed)			Ye	es			
Typical Nighttime Power Consumption			<2	2.5			V
OUTPUT - AC BACKUP ⁽³⁾							
Rated AC Power in Backup Operation®	3000	3800	6000	7600	10000	10300	V
Rated AC Power In Backup Operation	5000	7600*	0000	10300*	10000	10500	1
AC L-L Output Voltage Range in Backup		70	211 -	264			V
AC L-N Output Voltage Range in Backup			105 -	- 132			Vi
AC Frequency Range in Backup (min - nom - max)			55 - 6	0 - 65			H
MaximumContinuous Output Current in Backup Operation	12.5	16 32*	25	32 43*	42	43	1
GFDI		1	1	1	-1		1
THD			<	5			9
OUTPUT - SMART EV CHARGER AC							1
Rated AC Power			96	00			V
AC Output Voltage Range			211 -	264			Va
On-Grid AC Frequency Range (min - nom - max)			59.3 - 6	-10A583			H
Maximum Continuous Output Current @240V (grid, PV and battery)			4				A
INPUT - DC (PV AND BATTERY)				<u></u>			1.000
Transformer-less, Ungrounded	Ť.		Ye	25			Ť.
MaxInput Voltage			48	30			V
Nom DC Input Voltage			38	30			V
Reverse-Polarity Protection			Ye	95			-
Ground-Fault Isolation Detection			600kΩ S	042			-
INPUT - DC (PV)	-6						
Maximum DC Power @ 240V	6000	7600	12000	15200 22800*	22000	22800	V
Maximum DC Power @ 208V	C 2	6600	10000	-	2	20000	V
Maximum Input Current ¹⁹ @ 240V	8.5	10.5 20*	16.5	20 31*	- 27	31	A
Maximum Input Current ⁽⁵⁾ @ 208V	-	9	13.5		14	27	A
Max. Input Short Circuit Current			4	5			A
Maximum Inverter Efficiency	99	1		99.2			9
	99 99 98.5 @ 208V				9		
CEC Weighted Efficiency						98.5 @ 208V	

* Supported with PN SExxxH-USMMxxxxxx or SExxxH-USMNxxxxxx

Supported with PM second+-DSMINARROW OF SECOND+USMINARROW OF SECOND+USM



HOME BACKUP

solaredge.com

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TOP TIER SOL	AR SOLUTIONS
CHARLOTT	PARK DR #2911, E, NC 28217, STATES
REVI	SIONS
DESCRIPTION	DATE REV
INITIAL DESIGN	05/15/2023
TARA NEAVE RESIDENCE	440 HAYDEN LN, CAMERON, NC 28326 CAMERON, NC 28326
	VN BY SR
EQUIF SPECIF	NAME PMENT CATION T SIZE
AN	SI B { 17"
	NUMBER

/ Single Phase Energy Hub Inverter with Prism Technology For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US SE11400H-US	UNIT
INPUT - DC (BATTERY)						
Supported Battery Types		Sol	arEdge Energy Ban	k, LG RESU Prime ⁽⁶⁾		
Number of Batteries per Inverter		Up to 3 Sc	larEdge Energy Bar	nk, up to 2 LG RESU	/ Prime	
Continuous Power [®]	6000	7600		100	000	W
Peak Power ^m	6000	7600		100	000	W
Max Input Current	16	20		26	5.5	Adc
2-pole Disconnection			Ye	es		
SMART ENERGY CAPABILITIES	1					1
Consumption Metering			Built	- in [®]		1
Backup & Battery Storage	With Ba	ickup Interface (pui	chased separately)	for service up to 20	00A; Up to 3 inverters	
EV Charging			Direct connection t	o Smart EV charger	-	
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁹⁾ , Wi-Fi (optional),SolarEdge Energy Net (optional)					1
Revenue Grade Metering, ANSI C12.20			Built	- in ^{iai}		
Integrated AC, DC and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
DC Voltage Rapid Shutdown (PV and Battery)		Yes, accordin	g to NEC 2014, NEC	2017 and NEC 202	0 690.12	
STANDARD COMPLIANCE						
Safety		UL1741, UL1741 S/	A, UL1741 PCS, UL16	99B, UL1998, UL954	40, CSA 22.2	
Grid Connection Standards			IEEE1547, Rul	e 21, Rule 14H		
Emissions			FCC part	15 class B		
INSTALLATION SPECIFICATIONS						- C.
AC Output and EV AC Output Conduit Size / AWG Range			1" maximum	/ 14-4 AWG		
DC Input (PV and Battery) Conduit Size / AWG Range			1'' maximum	/ 14-6 AWG		
Dimensions with Connection Unit (H x W x D)	17.7 x 1	4.6 x 6.8 / 450 x 37	0 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174 17.7 x 14.6 x 6.8 / 450 x 370 x 174*	17.7 x 14.6 x 6.8 / 450 x 370 x 174	in/m
Weight with Connection Unit		26/11.8		26 / 11.8 41.7 / 18.9*	41.7 / 18.9	lb/kg
Noise	< 25	< 25 < 50*	< 25		< 50	dBA
Cooling			Natural C	onvection		
Operating Temperature Range			-40 to +140/	-40 to +60 ^{roi}		°F/°C
Protection Rating			NEN	/A 4		

(6) The part numbers SExxxxH-USxMxxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNxxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries

(b) The part thinkers sectore to Savidate or the solar bage theory bank the part thinkers sectore to solar bage theory bank and to be the solar bage theory bank and to be theo

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DESCRIPTION	DATE	REV		
INITIAL DESIGN	05/15/2023			
PROJECT NAME & LAKA NEAVE RESIDENCE BRAWN B	440 HAYDEN LN, CAMERON, NC 28326			
ESR				
SHEET NAME				
EQUIPMENT SPECIFICATION				
SHEET SIZ	<u>ZE</u>			
ANSI 11" X 1				
SHEET NUM	BER	Ξ		
PV-1	2			
	-			





XR Rail Family

XR Rail Family



The XR Rail Family offers the strength of a curved rail in three targeted sizes. Ea design loads, while minimizing material costs. Depending on your location, there



Rail Selection

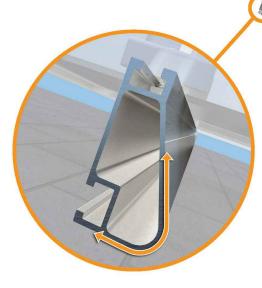
The following table was prepared in compliance with applicable engineering code based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slop Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certifica

Lo	ad			Rail	Span
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'
	100				
None	120				
None	140	XR10		XR100	
	160				
	100				
10-20	120				
10-20	140				
	160				
30	100				
30	160				
40	100				
40	160				
50-70	160				
80-90	160				

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Compatible with Flat & Pitched Roofs





Corrosion-Resistant Materials

All XR Rails are made of marine-grade aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



		TIER OLUTIONS
Tech Brief		AR SOLUTIONS
	1530 CENTER CHARLOTT	PARK DR #2911, Έ, NC 28217,) STATES
ach size supports specific e is an XR Rail to match.	REVI	SIONS
	DESCRIPTION	DATE REV
	INITIAL DESIGN	05/15/2023
R1000		
1000 is a heavyweight among lar mounting rails. It's built to handle treme climates and spans 12 feet or ore for commercial applications.		
12' spanning capability Extreme load capability Clear anodized finish Internal splices available		
es and standards. Values are be of 7 to 27 degrees and Mean		
ations.		ME & ADDRESS
401 401		26
10' 12' XR1000	TARA NEAVE RESIDENCE	IAYDEN LN, ON, NC 28326
	TAR	440 HAYDI CAMERON, N
		WN BY
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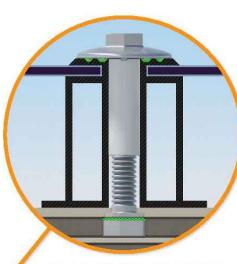


UFO Family of Components

Simplified Grounding for Every Application

The UFO family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge XR Rails. All system types that feature the UFO family-Flush Mount, Tilt Mount and Ground Mount-are fully listed to the UL 2703 standard.

UFO hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.



Stopper Sleeve The Stopper Sleeve snaps onto the UFO, converting it into a bonded end clamp

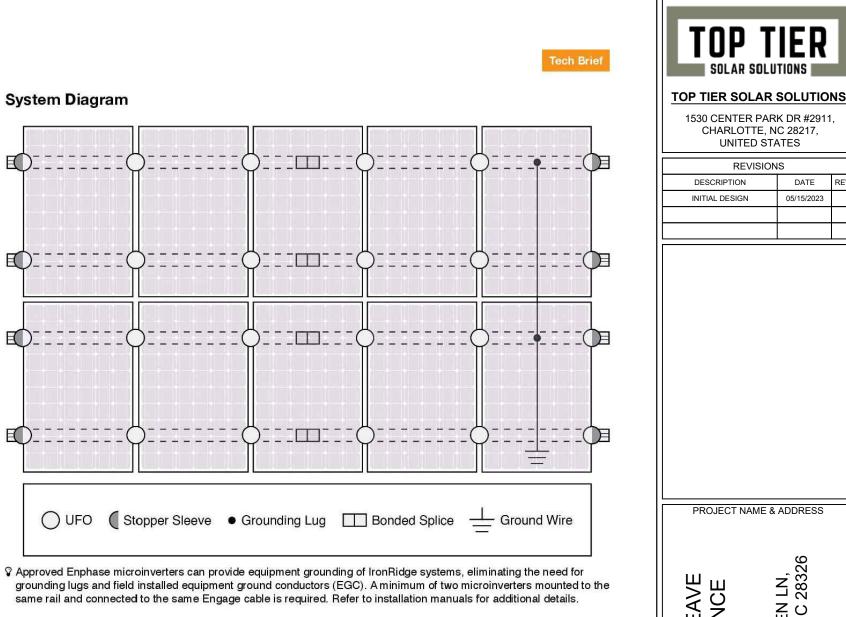
Universal Fastening Object (UFO) The UFO securely bonds solar modules to XR Rails. It comes assembled and lubricated, and can fit a wide range of module heights.

Bonded Splice Each Bonded Splice uses self-drilling screws to form a secure connection. No

bonding strap needed.

Grounding Lug A single Grounding Lug connects an entire row of PV modules to the grounding conductor.

Bonded Attachments The bonding bolt attaches and bonds the L-foot to the rail. It is installed with the same socket as the rest of the system



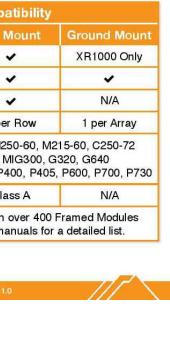
UL Certification

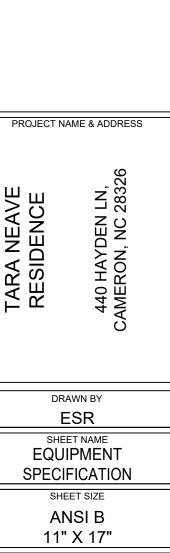
The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Go to IronRidge.com/UFO

Cross-System Comp		
Feature	Flush Mount	Tilt N
XR Rails	~	
UFO/Stopper	~	
Bonded Splice	~	
Grounding Lugs	1 per Row	1 pe
Microinverters & Power Optimizers	Enphase - M25 Darfon - M SolarEdge - P300,	11G240, N
Fire Rating	Class A	Cla
Modules	Tested or Evalua Refer to insta	





REV

SHEET NUMBER

PV-14



The Strongest Attachment in Solar

IronRidge FlashFoot2 raises the bar in solar roof protection. The unique water seal design is both elevated and encapsulated, delivering redundant layers of protection against water intrusion. In addition, the twist-on Cap perfectly aligns the rail attachment with the lag bolt to maximize mechanical strength.

Twist-On Cap

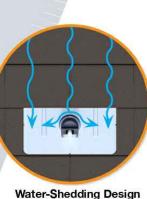
FlashFoot2's unique Cap design encapsulates the lag bolt and locks into place with a simple twist. The Cap helps FlashFoot2 deliver superior structural strength, by aligning the rail and lag bolt in a concentric load path.

Three-Tier Water Seal

FlashFoot2's seal architecture utilizes three layers of protection. An elevated platform diverts water away, while a stack of rugged components raises the seal an entire inch. The seal is then fully-encapuslated by the Cap. FlashFoot2 is the first solar attachment to pass the TAS-100 Wind-Driven Rain Test.

Single Socket Size

A custom-design lag bolt allows you to install FlashFoot2 with the same 7/16" socket size used on other Flush Mount System components.

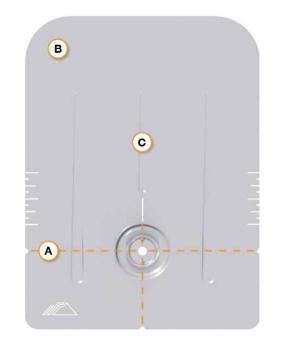


An elevated platform diverts water away from the water seal

Tech Brief

FlashFoot2

Installation Features



Benefits of Concentric Loading

Traditional solar attachments have a horizontal offset between the rail and lag bolt, which introduces leverage on the lag bolt and decreases uplift capacity.

FlashFoot2 is the only product to align the rail and lag bolt. This concentric loading design results in a stronger attachment for the system.

1200 FlashFoot2 (lbs) 1000 ity 800 FlashFoo 600 400 ¢ Idn 200

(A) Alignment Markers

(B) Rounded Corners

Reinforcement Ribs

crinkling during installation.

(c)

Testing & Certification

Structural Certification

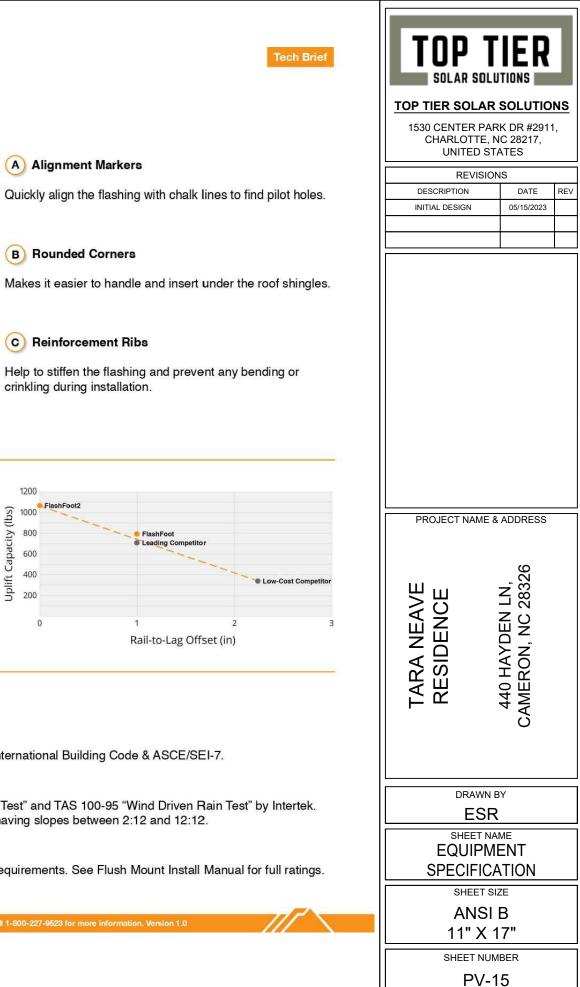
Designed and Certified for Compliance with the International Building Code & ASCE/SEI-7.

Water Seal Ratings

Water Sealing Tested to UL 441 Section 27 "Rain Test" and TAS 100-95 "Wind Driven Rain Test" by Intertek. Ratings applicable for composition shingle roofs having slopes between 2:12 and 12:12.

UL 2703

Conforms to UL 2703 Mechanical and Bonding Requirements. See Flush Mount Install Manual for full ratings.





v2.0

FlashFoot2[®]

 Image: Tem NO.
 DESCRIPTION
 Qty in Kit

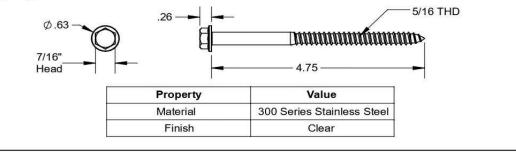
TEM NO.	DESCRIPTION	Qty in Kit
1	BOLT LAG 5/16 X 4.75"	1
2	ASSY, FLASHING	1
3	ASSY, CAP	1
4	WASHER, EPDM BACKED	1

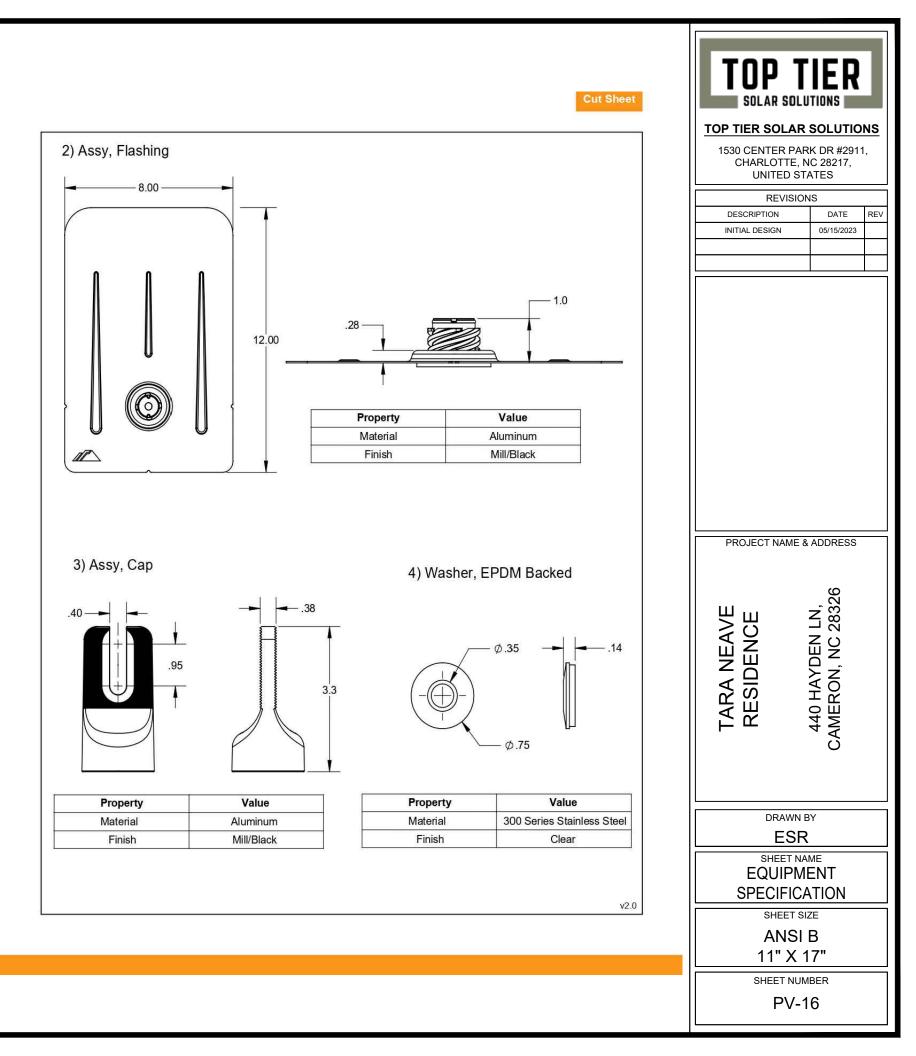
FLASHFOOT 2

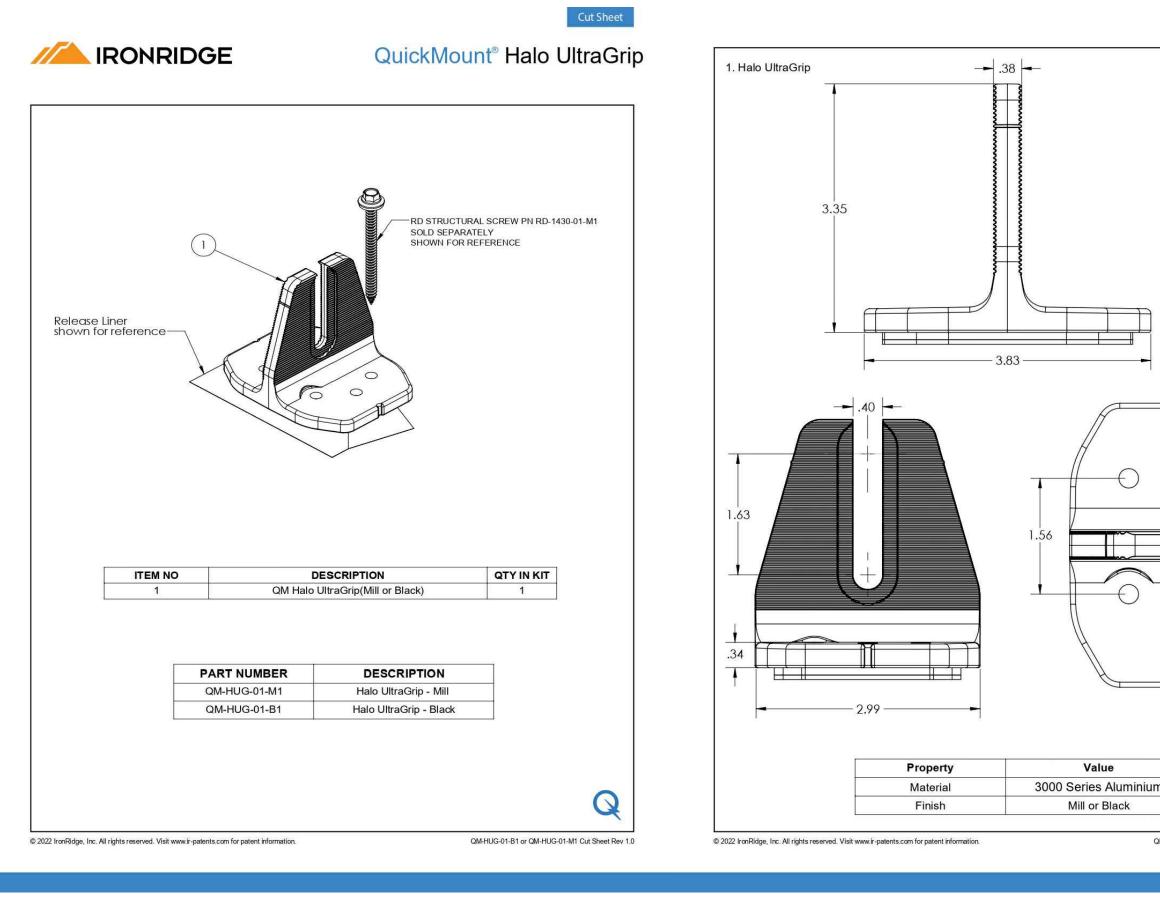
Part Number	Description	
FF2-02-M2	FlashFoot2® (Mill)	
FF2-02-B2	FlashFoot2® (Black)	

1) Bolt, Lag 5/16 x 4.75

IRONRIDGE

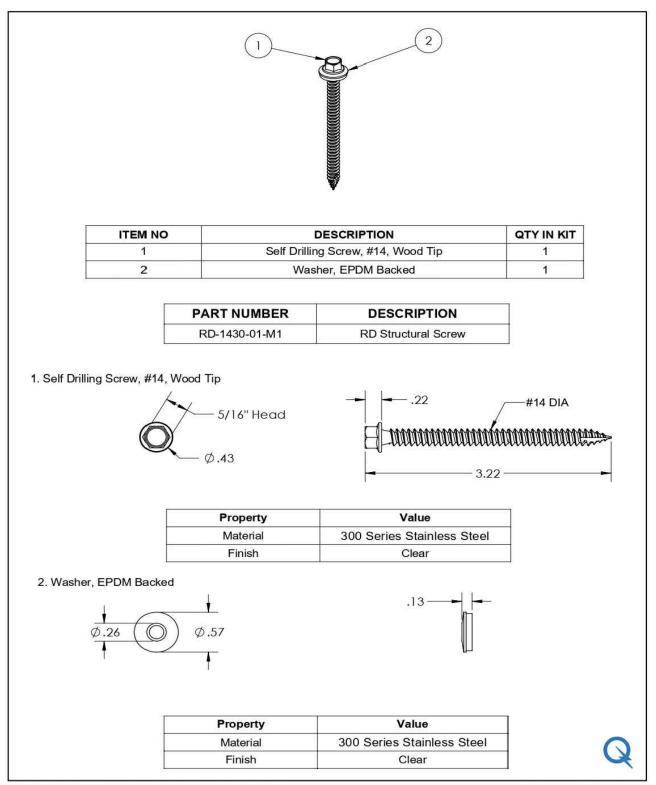






Cut Sheet	TOP TIEF	2
	TOP TIER SOLAR SOLUTIONS 1530 CENTER PARK DR #2911, CHARLOTTE, NC 28217, UNITED STATES	
	REVISIONS	
	DESCRIPTION DATE	REV
	INITIAL DESIGN 05/15/202	3
	TARA NEAVE TARA NEAVE RESIDENCE 440 HAYDEN LN, CAMERON, NC 28326 CAMERON, NC 28326	5
n	ESR	
	EQUIPMENT SPECIFICATION	
0M-HUG-01-B1 or QM-HUG-01-M1 Cut Sheet Rev 1.0	SHEET SIZE	
	ANSI B 11" X 17"	
	SHEET NUMBER	
	PV-17	

IRONRIDGE QuickMount[®] RD Structural Screw



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QM-RD-1430-01-M1 Cut Sheet Rev 1.0

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DESCRIPTION	DATE	REV
INITIAL DESIGN	05/15/2023	
PROJECT NAME & TARA NEAVE BARANE DENCE DRAWN B	440 HAYDEN LN, CAMERON, NC 28326	
	Y	
ESR		
EQUIPMENT SPECIFICATION		
SHEET SIZ	ZE	
ANSI B 11" X 17"		
SHEET NUMBER		
PV-18		



Basic Features

- Stamped Seamless Construction
- 18 Gauge Galvanized Steel
- Powder Coated Surfaces
- Flashes into the roof deck
- 3 Roof deck knockouts .5", .75", 1"
- 5 Centering dimples for entry/exit fittings or conduit
- 2 Position Ground lug installed
- Mounting Hardware Included



SolaDeck Model SD 0783



SolaDeck UL50 Type 3R Enclosures

Available Models: Model SD 0783 - (3" fixed Din Rail) Model SD 0786 - (6" slotted Din Rail)



SolaDeck UL 1741 Combiner/Enclosures

Models SD 0783-41 and SD 0786-41 are labeled and ETL listed UL STD 1741 according to the UL STD 1741 for photovoltaic combiner enclosures. Max Rated - 600VDC, 120AMPS

Model SD 0783-41 3" Fixed Din Rail fastened using Norlock System **Typical System Configuration

- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 1- Power Distribution Block 600VDC 175AMP
- 1- Bus Bar with UL lug

Model SD 0786-41 6" Slotted Din Rail fastened using steel studs

**Typical System Configuration

- 4- Din Rail Mounted Fuse Holders 600VDC 30 AMP
- 4- Din Rail Mounted Terminal Blocks Bus Bars with UL lug

**Fuse holders and terminal blocks added in the field must be UL listed or recognized and meet 600 VDC 30 AMP 110C for fuse holders, 600V 50 AMP 90C for rail mounted terminal blocks and 600 V 175 AMP 90C for Power Distribution Blocks. Use Copper Wire Conductors.



Cover is trimmed to allow conduit or fittings, base is center dimpled for fitting locations.



Model SD 0783-41, wired with Din Rail mounted fuse holders, bus bar and power distribution block



Model SD 0786-41, wired with Din Rail mounted fuse holders, terminal blocks and bus bars.

RSTC Enterprises, Inc • 2219 Heimstead Road • Eau Cliare, WI 54703 For product information call 1(866) 367-7782

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TOP TIER SOLAR	SOLUTIO	NS	
1530 CENTER PAR		,	
CHARLOTTE, N UNITED ST			
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DESCRIPTION	DATE	REV	
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	440 HAYDEN LN, CAMERON, NC 28326		
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EQUIPMENT SPECIFICATION			
SHEET SIZ	ZE		
ANSI B 11" X 17"			
SHEET NUMBER			
PV-19			