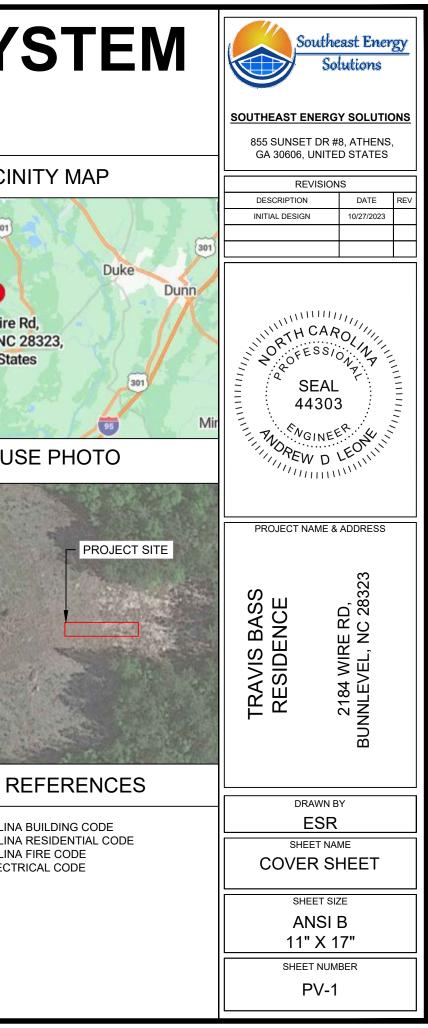
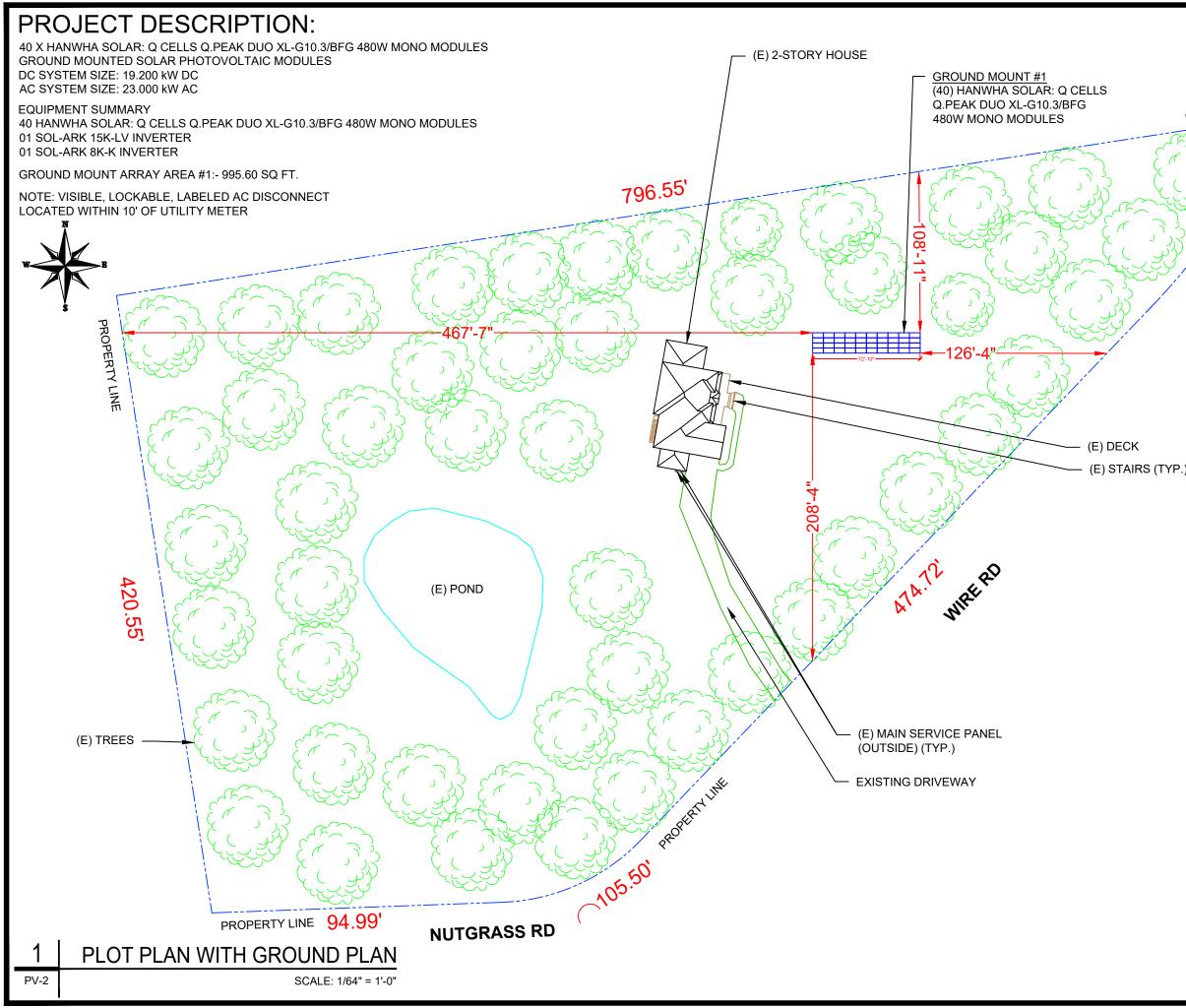
PHOTOVOLTAIC GROUND MOUNT SYSTEM

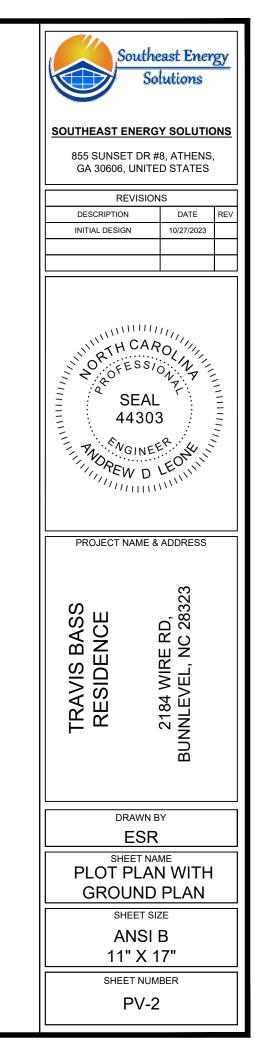
40 MODULES-GROUND MOUNTED - 19.200 kW DC, 23.000 kW AC

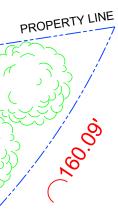
2184 WIRE RD, BUNNLEVEL, NC 28323

PROJECT DATA	GENERAL NOTES	VICI
PROJECT2184 WIRE RD, ADDRESSADDRESSBUNNLEVEL, NC 28323OWNER:TRAVIS BASSDESIGNER:ESRSCOPE: 19.200 KW DC GROUND MOUNT SOLAR PV SYSTEM WITH 40 HANWHA SOLAR: Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W PV MODULES WITH 01 SOL-ARK 15K-LV INVERTER 01 SOL-ARK 8K-P INVERTER	 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 PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS 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 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 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 CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING 	401 2184 Wire Bunnlevel, NO United Sta
AUTHORITIES HAVING JURISDICTION: BUILDING: HARNETT COUNTY ZONING: HARNETT COUNTY UTILITY: DUKE ENERGY PROGRESS SHEEET INDEX PV-1 COVER SHEET PV-2 PLOT PLAN WITH GROUND PLAN PV-3 GROUND PLAN & MODULES PV-4 ELECTRICAL PLAN PV-5 RACKING DETAILS PV-6 ELECTRICAL LINE DIAGRAM PV-7 WIRING CALCULATIONS PV-8 LABELS PV-9 PLACARD PV-10+ EQUIPMENT SPECIFICATIONS	 GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM. 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 	
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	 DISCONNECTING 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 F 2018 NORTH CAROLIN 2018 NORTH CAROLIN 2018 NORTH CAROLIN 2017 NATIONAL ELECT



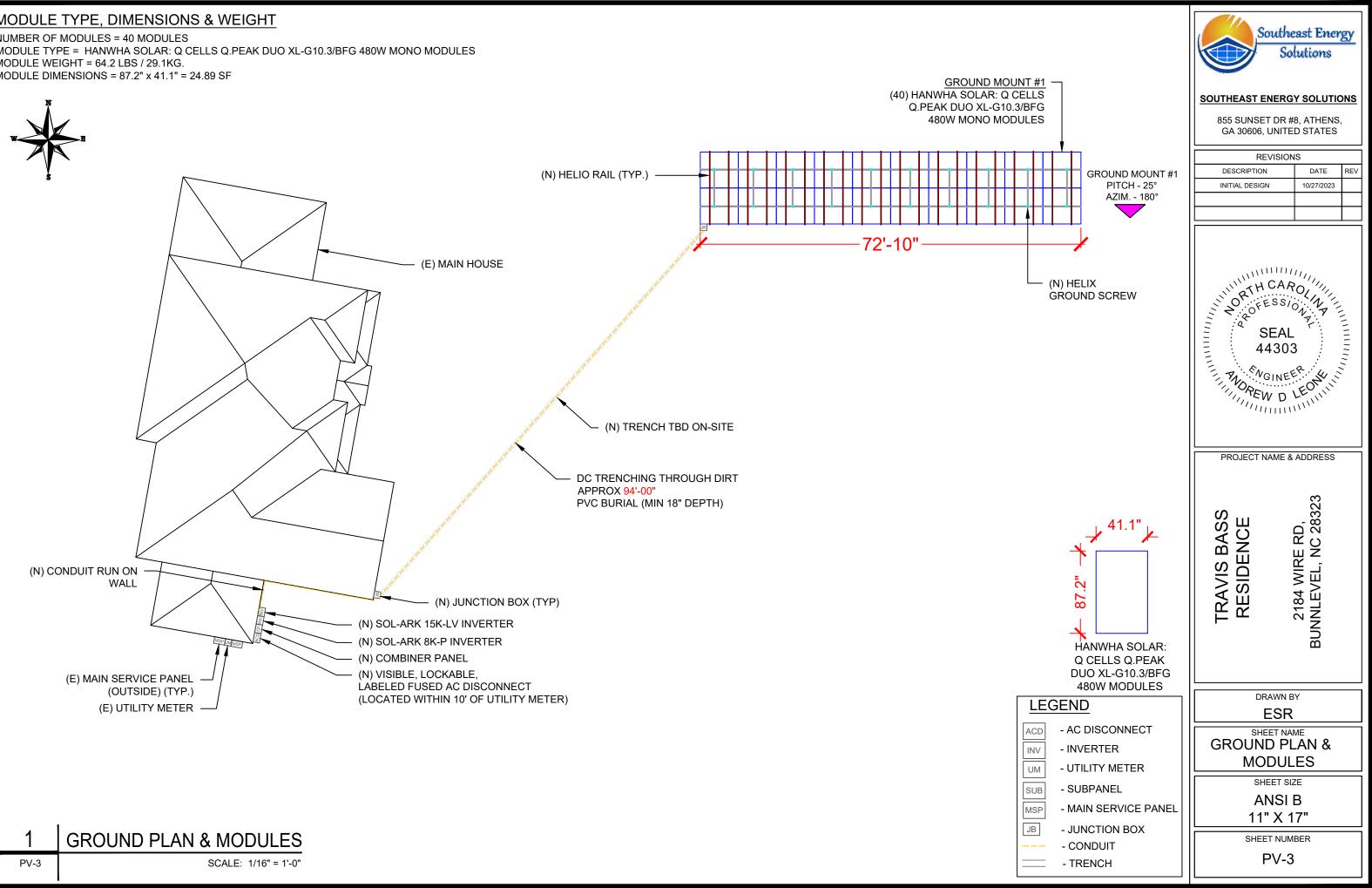






MODULE TYPE, DIMENSIONS & WEIGHT

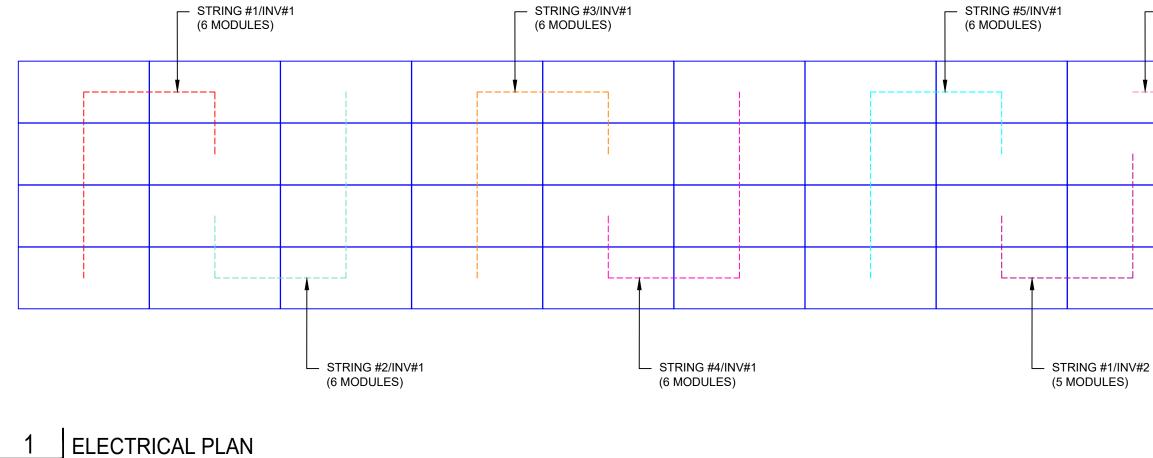
NUMBER OF MODULES = 40 MODULES MODULE TYPE = HANWHA SOLAR: Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W MONO MODULES MODULE WEIGHT = 64.2 LBS / 29.1KG. MODULE DIMENSIONS = 87.2" x 41.1" = 24.89 SF



STRING LEGENDS										
STRING #1/INV#										
STRING #2/INV#1										
STRING #3/INV#1										
STRING #4/INV#1										
STRING #5/INV#1										
STRING #1/INV#2										
STRING #2/INV#2										

Part	Spares Total Q
K10423-063 Ground Screw, 63"	2
A21165-060 HSS 2.375" OD Front Pipe	1
A21165-120 HSS 2.375" OD Rear Pipe	2
A21168-112 2.875" OD E/W Pipe Beam, 112"	1
A50164-066 HSS E/W Tube Brace	
A50164-092 HSS N/S Tube Brace	2
A20444-174-ML SMR300 Rail, 174"	2
K10343-005 2.5" Pipe U-Clamp Kit	2
K10341-002 2.5" Pipe T-Cap Kit	2
K10219-001 2" Pipe Clamp Kit	2
K10222-001 2.5" Pipe Clamp Kit	
K10342-001 2.5" Pipe Splice Kit	2
K10417-003 Mid Clamp, SMR Pop-on	c.
K10418-003 End Clamp, SMR Pop-On	2
K10469-001 SMR Grounding Lug	
A20445-001 Rail End Cap. SMR300	4

BILL OF MATERIALS									
EQUIPMENT DESCRIPTION									
SOLAR PV MODULES: HANWHA SOLAR: Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W MODULE	40								
INVERTER: SOL-ARK 15K-LV INVERTER	40								
NVERTER: SOL-ARK 8K-P INVERTER									
JUNCTION BOXES: 6"X6"X4" UL LISTED, STEEL WATER TIGHT NEMA TYPE 3R, UL LISTED	2								
AC DISCONNECT: FUSED AC DISCONNECT, 200A FUSED, (2) 125A FUSES 240V NEMA 3R, UL LISTED	1								



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

PV-4



SOUTHEAST ENERGY SOLUTIONS

855 SUNSET DR #8, ATHENS, GA 30606, UNITED STATES

REVISIONS										
DESCRIPTION	DATE	REV								
INITIAL DESIGN	10/27/2023									



PROJECT NAME & ADDRESS

TRAVIS BASS RESIDENCE

2184 WIRE RD, BUNNLEVEL, NC 28323

DRAWN BY

ESR

SHEET NAME

ELECTRICAL PLAN

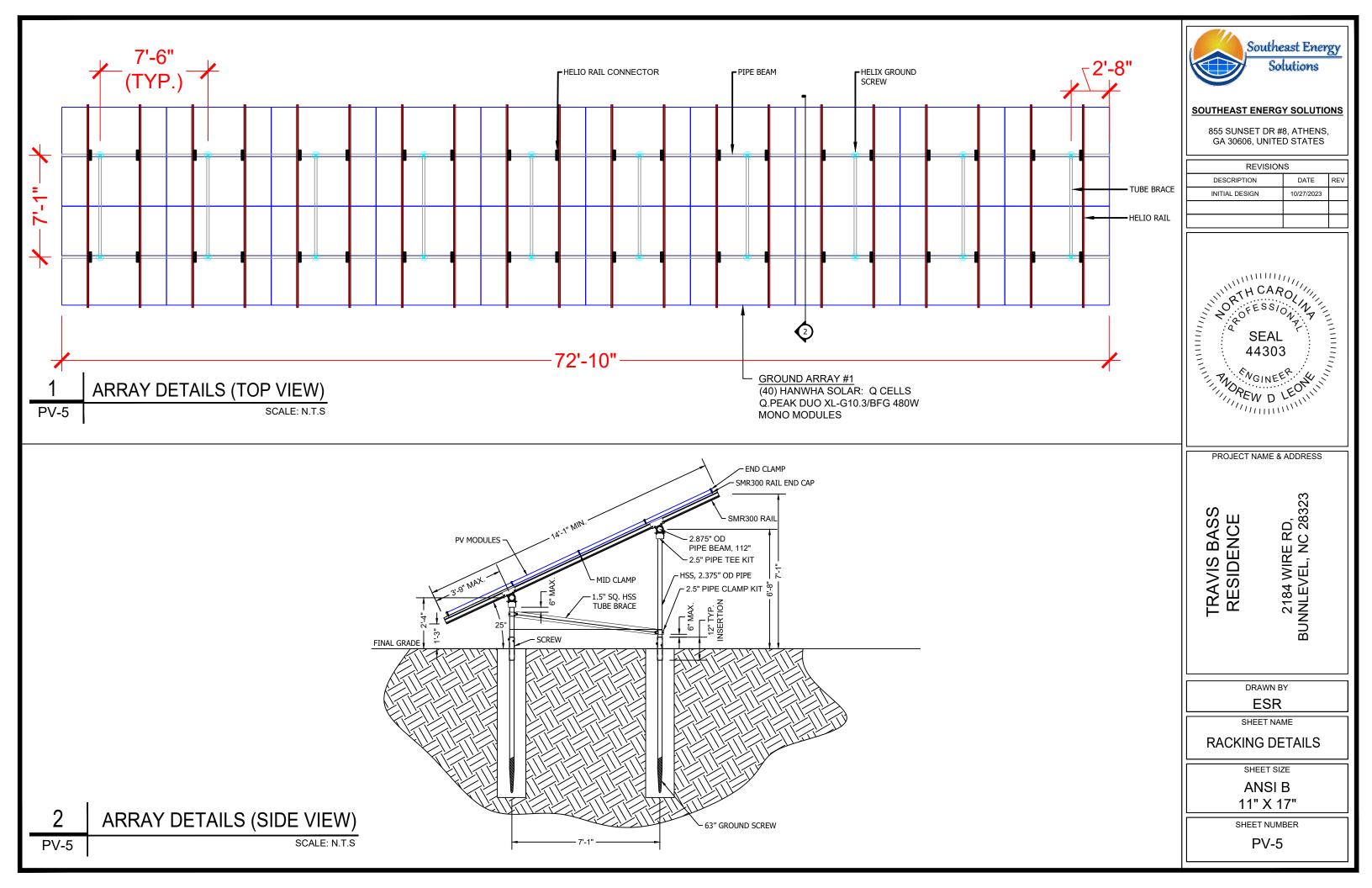
SHEET SIZE ANSI B

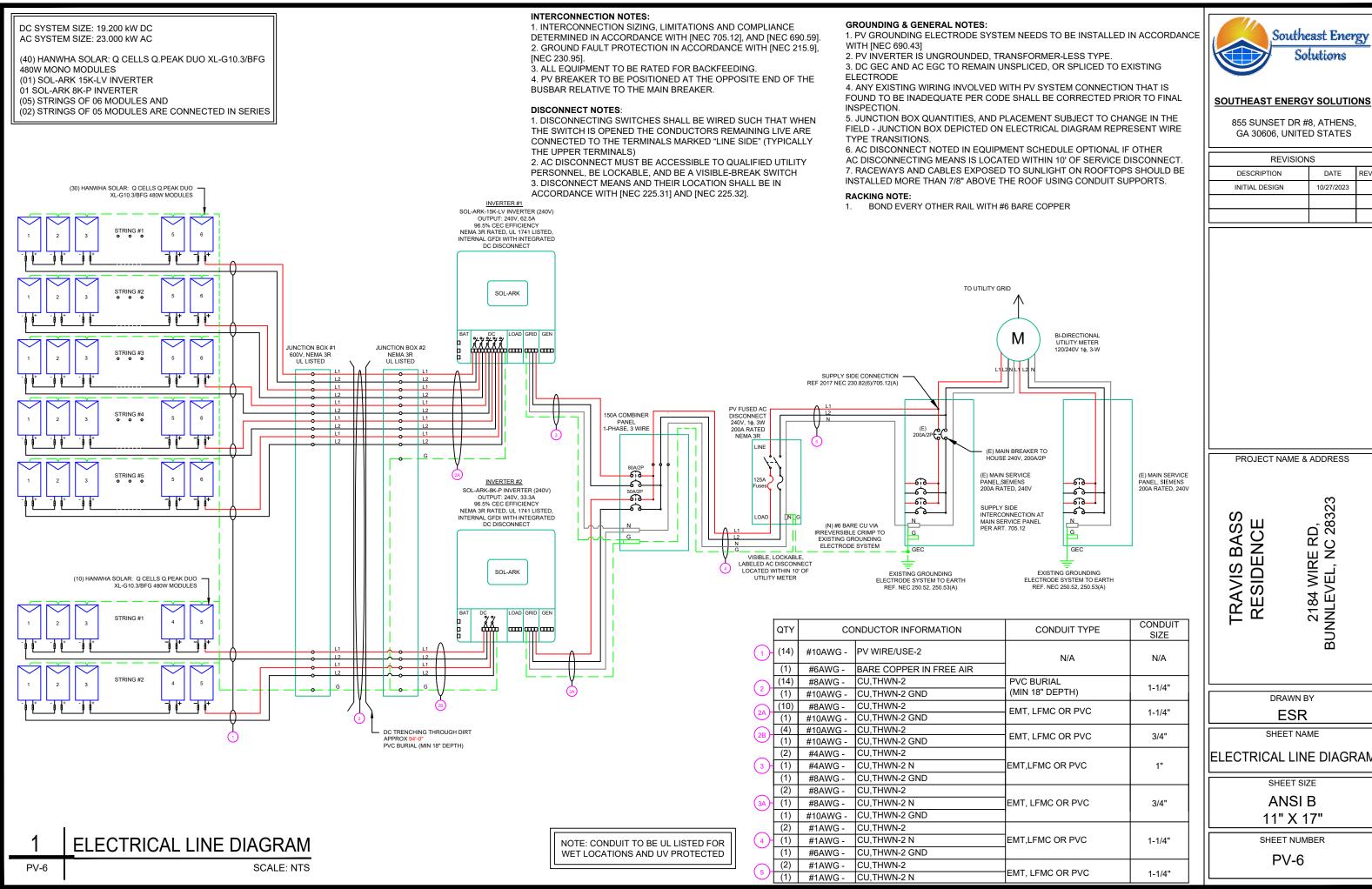
11" X 17"

SHEET NUMBER

PV-4

STRING #2/INV#2 (5 MODULES)





HER		/ISIONS							
ONNECT. IOULD BE	DESCRIPTION	DATE	REV						
RTS.	INITIAL DESIGN	10/27/2023							
	PROJECT NA	AME & ADDRESS							
MAIN SERVICE									
NEL, SIEMENS DA RATED, 240V		_							
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	TRAVIS BASS RESIDENCE	2184 WIRE RD, JNNLEVEL, NC 28323							
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ONDUIT	ᅟᅟᅳᅭ								
SIZE		BU							
N/A		_							
1-1/4"		AWN BY							
1-1/4"		SR							
	L								
3/4"	SHEET NAME								
1"	ELECTRICAL LINE DIAGRAM								
'	SHEET SIZE								
3/4"		ISI B							
	11"	X 17"							
1-1/4"	SHEET	T NUMBER							
	יץ	V-6							
1-1/4"									

SOLAR MODULE SPECIFICATIONS								
MANUFACTURER / MODEL #	HANWHA SOLAR: Q CELLS Q.PEAK DUO XL-G10.3/BFG 480W MODULE							
VMP	45.33V							
IMP	10.59A							
VOC	53.39V							
ISC	11.12A							
TEMP. COEFF. VOC	-0.27%/°C							
MODULE DIMENSION	87.2"L x 41.1"W x 1.38"D (In Inch)							

INVERTE	R #1 SPECIFICATIONS
MANUFACTURER / MODEL #	SOL-ARK 15K-LV INVERTER
NOMINAL AC POWER	15.000 kW
NOMINAL OUTPUT VOLTAGE	240 VAC
NOMINAL OUTPUT CURRENT	62.5A
INVERTE	R #2 SPECIFICATIONS
MANUFACTURER / MODEL #	SOL-ARK 8K-P INVERTER
NOMINAL AC POWER	8.000 kW
NOMINAL OUTPUT VOLTAGE	240 VAC
NOMINAL OUTPUT CURRENT	33.3A

AMBIENT TEMPERATURE SPECS								
RECORD LOW TEMP	-9°							
AMBIENT TEMP (HIGH TEMP 2%)	38°							
MODULE TEMPERATURE COEFFICIENT OF Voc	-0.27%/°C							

Г	PERCENT OF	NUMBER OF CURRENT
	VALUES	CARRYING CONDUCTORS IN EMT
	.80	4-6
	.70	7-9
Г	.50	10-20

	DC FEEDER CALCULATIONS																				
	CIRCUIT DESTINATION	VOLTAGE (V)	FULL LOAD AMPS "FLA" (A)	IFI A*1 56	OCPD SIZE (A)	GROUND SIZE	CONDUCTOR SIZE	75°C AMPACITY (A)	AMPACITY CHECK #1	AMBIENT TEMP. (°C)	TOTAL CC CONDUCTORS 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		CONDUCTOR RESISTANCE (OHM/KFT)	VOLTAGE DROP AT FLA (%)	CONDUIT SIZE	CONDUIT FILL (%)
STRING 1/INV#1	JUNCTION BOX 1	500	11.12	17.35	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.028	N/A	#N/A
STRING 2/INV#1	JUNCTION BOX 1	500	11.12	17.35	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.028	N/A	#N/A
STRING 3/INV#1	JUNCTION BOX 1	500	11.12	17.35	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.028	N/A	#N/A
STRING 4/INV#1	JUNCTION BOX 1	500	11.12	17.35	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.028	N/A	#N/A
STRING 5/INV#1	JUNCTION BOX 1	500	11.12	17.35	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.028	N/A	#N/A
STRING 1/INV#2	JUNCTION BOX 1	500	11.12	17.35	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.028	N/A	#N/A
STRING 2/INV#2	JUNCTION BOX 1	500	11.12	17.35	20	BARE COPPER #6 AWG	CU #10 AWG	35	PASS	38	2	40	0.91	1	36.4	PASS	5	1.24	0.028	N/A	#N/A
JUNCTION BOX 1	JUNCTION BOX 2	500	11.12	17.35	20	CU #10 AWG	CU #8 AWG	50	PASS	38	14	55	0.91	0.5	25.025	PASS	94	0.778	0.325	1 1/4" EMT	35.66176
JUNCTION BOX 2	INVERTER 1	500	11.12	17.35	20	CU #10 AWG	CU #8 AWG	50	PASS	38	10	55	0.91	0.5	25.025	PASS	28	0.778	0.097	1 1/4" EMT	T 25.87567
JUNCTION BOX 2	INVERTER 2	500	11.12	17.35	20	CU #10 AWG	CU #10 AWG	35	PASS	38	4	40	0.91	0.8	29.12	PASS	28	1.24	0.154	3/4" EMT	19.79362

String 1/Inv#1 Voltage Drop	0.450
String 2/Inv#1 Voltage Drop	0.450
String 3/Inv#1 Voltage Drop	0.450
String 4/Inv#1 Voltage Drop	0.450
String 5/Inv#1 Voltage Drop	0.450
String 1/Inv#2 Voltage Drop	0.507
String 2/Inv#2 Voltage Drop	0.507

Inverter 1 COMBINE PANEL 240 66.5 78.125 80 CU #A WG CU #A WG 85.5 78.55 78.125 80 CU #A WG CU #A WG 85.5 78.55 310.15(B)(2)(a) 310.15(B)(2)(a) 310.15(B)(2)(a) 310.15(B)(2)(a) 60.7 (PEN) (PEN) PEA WG PEA WG <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>AC FEEDER</th><th>CALCULATIONS</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>											AC FEEDER	CALCULATIONS											
INVERTER 2 COMBINER PANEL 240 33.3 41.625 50 CU #8 AWG CU #10 AWG CU #8 AWG 50 PASS 38 2 55 0.91 1 50.5 PASS 5.0 0.108 3/4" EM 24.55 COMBINER PANEL AC DISCONNECT 240 95.8 110.75 CU #1 AWG	CIRCUIT ORIGIN	CIRCUIT DESTINATION					NEUTRAL SIZE	GROUND SIZE				TEMP (°C)	CONDUCTORS	90°C AMPACITY (A)	FOR AMBIENT TEMPERATURE NEC	FOR CONDUCTORS PER RACEWAY NEC	AMPACITY DERATED		LENGTH	RESISTANCE	DROP AT	CONDUIT	CONDUIT FILL (%)
COMBINER PANEL AC DISCONNECT 240 95.8 119.75 125 CU #1 AWG CU #1 AWG 130 PASs 38 2 145 0.91 1 131.95 PASs 5 0.061 1/4" EMT 34.712	INVERTER 1	COMBINER PANEL	240	62.5	78.125	80	CU #4 AWG	CU #8 AWG	CU #4 AWG	85	PASS	38	2	95	0.91	1	86.45	PASS	5	0.308	0.080	1" EMT	32.8472
	INVERTER 2	COMBINER PANEL	240	33.3	41.625	50	CU #8 AWG	CU #10 AWG	CU #8 AWG	50	PASS	38	2	55	0.91	1	50.05	PASS	5	0.778	0.108	3/4" EMT	24.5591
AC DISCONNECT POL 240 95.8 119.75 125 CU #1 AWG N/A CU #1 AWG 130 PASS 38 2 145 0.91 1 131.95 PASS 5 0.154 0.061 1 1/4" EMT 31.323	COMBINER PANEL	AC DISCONNECT	240	95.8	119.75	125	CU #1 AWG	CU #6 AWG	CU #1 AWG	130	PASS	38	2	145	0.91	1	131.95	PASS	5	0.154	0.061	1 1/4" EMT	34.7126
	AC DISCONNECT	POI	240	95.8	119.75	125	CU #1 AWG	N/A	CU #1 AWG	130	PASS	38	2	145	0.91	1	131.95	PASS	5	0.154	0.061	1 1/4" EMT	31.3235

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 GROUNDTOPS 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 JUNCTION BOX, RACEWAYS, AND CONDUITS ARE NOT SPECIFIED, THE CONTRACTOR SHALL SIZE THEM ACCORDINGLY.
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE. 7.
- MODULE GROUNDING CLIPS TO BE INSTALLED BETWEEN MODULE FRAME AND MODULE SUPPORT RAIL, PER THE 8. 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.

CITY (#2	FEEDER LENGTH (FEET)	CONDUCT RESISTAN (OHM/KF	CE	VOLTAO DROP A FLA (%	٩T	CONDUIT SIZE	CONDUIT FILL (%)
S	5	0.308		0.080)	1" EMT	32.8472
S	5	0.778		0.108	3	3/4" EMT	24.5591
S	5	0.154		0.061		1 1/4" EMT	34.7126
S	5	0.154		0.061		1 1/4" EMT	31.3235
CU	IMULATIVE VO			0.20			
CUMULATIVE VOLTAGE DROP INV #2				0.23			



SOUTHEAST ENERGY SOLUTIONS

855 SUNSET DR #8, ATHENS, GA 30606, UNITED STATES

REV	ISION	IS	
DESCRIPTION		DATE	REV
INITIAL DESIGN		10/27/2023	
PROJECT NA			
TRAVIS BASS RESIDENCE		2184 WIRE RD, BUNNLEVEL, NC 28323	
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E	SR		
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SHE	ET SIZ	ZE	
AN AN	ISI I	В	
11"	X 1	7"	
SHEET	NUM	BER	

PV-7

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 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

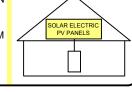


LABEL- 5:

LABEL LOCATION: 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

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



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 (ONLY IF SOLAR IS BACK-FED) CODE REF: NEC 690.56(C)(2)

DC DISCONNECT

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

AC DISCONNECT	
PHOTOVOLTAIC SYST	EM
POWER SOURCE	
NOMINAL OPERATING AC VOLATGE	240 V
RATED AC OUTPUT CURRENT	95.8 A
ABEL - 9'	

LABEL LOCATION: AC DISCONNECT CODE REF: NEC 690.54

FOR INV #1

INVERTER AC DISCONNECT	
NOMINAL OPERATING AC VOLATGE	240 V
RATED AC OUTPUT CURRENT	62.50 A
LABEL- 10: LABEL LOCATION	

INVERTER CODE REF: NEC 690.54

FOR INV #2

INVERTER AC DISCONNECT	
NOMINAL OPERATING AC VOLATGE	240
RATED AC OUTPUT CURRENT	33.3
LABEL- 11:	

LABEL LOCATION: INVERTER CODE REF: NEC 690.54

FOR INV #1 & #2

MAXIMUN

MAXIMUN

MAXIMUM

CURRENT

CONTROL

VOLTAGE	500
CIRCUIT CURRENT	18
RATED OUTPUT	
OF THE CHARGE	
LER OR DC-TO-DC	

LABEL- 12: LABEL LOCATION: INVERTER CODE REF: NEC 690.53

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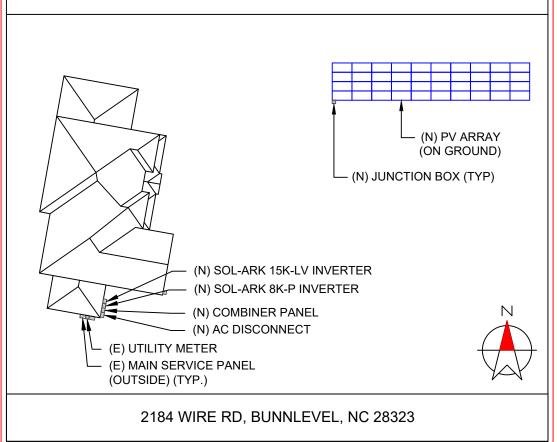


SOUTHEAST ENERGY SOLUTIONS

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REV	ISIONS
DESCRIPTION	DATE REV
INITIAL DESIGN	10/27/2023
PROJECT NA	ME & ADDRESS
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TRAVIS BASS RESIDENCE	2184 WIRE RD, INLEVEL, NC 28323
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	WN BY
	SR
SHEE	T NAME
LAE	ELS
	ET SIZE
AN AN	SI B
	X 17"
11"	$\Lambda \Pi$
SHEET	NUMBER /-8

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM MULTIPLE SOURCES OF POWER WITH SAFETY DISCONNECTS AS SHOWN:



DIRECTORY

PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED WITHIN: NEC 690.56(B)&(C), [NEC 705.10]) [NEC 690.56(C)(1)(A)]

LABELING NOTES:

- 1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
- 2. LABELING REQUIREMENTS BASED ON THE 2017 NATIONAL ELECTRIC CODE, OSHA STANDARD 19010.145, ANSI Z535.
- 3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]
- 5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY

AFFIXED [NEC 690.56(C)(1)(A)].



SOUTHEAST ENERGY SOLUTIONS

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Q.PEAK DUO XL-G10.3/BFG 470-485

BIFACIAL DOUBLE GLASS MODULE WITH EXCELLENT RELIABILITY AND ADDITIONAL YIELD



THE IDEAL SOLUTION FOR: Ground-mounted solar power plants

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BIFACIAL ENERGY YIELD GAIN OF UP TO 20%

Bifacial Q.ANTUM solar cells with zero gap cell layout make efficient use of light shining on the module rear-side for radically improved LCOE.

EUPD RESEARCH

TOP BRAND PV

MODULES

EUROPE

Q CELLS ield Security

LOW ELECTRICITY GENERATION COSTS

Q.ANTUM DUO Z combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology for higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 21.2%.

INNOVATIVE ALL-WEATHER TECHNOLOGY

Optimal yields, whatever the weather with excellent low-light and temperature behavior.

ENDURING HIGH PERFORMANCE

Long-term yield security with Anti LID and Anti PID Technology¹, Hot-Spot Protect and Traceable Quality Tra.Q™.

FRAME FOR VERSATILE MOUNTING OPTIONS

High-tech aluminum alloy frame protects from damage, enables use of a wide range of mounting structures and is certified regarding IEC for high snow (5400Pa) and wind loads (2400Pa).

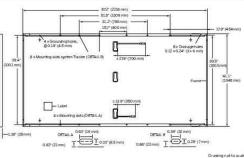
A RELIABLE INVESTMENT

Double glass module design enables extended lifetime with 12-year product warranty and improved 30-year performance warranty².

¹ APT test conditions according to IEC /TS 62804-1:2015 method B (-1500 V, 168h) including post treatment according to IEC 61215-1-1 Ed. 2.0 (CD)
² See data sheet on rear for further information.



Format	87.2 in × 41.1 in × 1.38 in (including frame) (2216 mm × 1045 mm × 35 mm)	
Weight	64.2 lbs (29.1kg)	
Front Cover	0.08 in (2.0 mm) thermally pre-stressed glass with anti-reflection technology	
Back Cover	0.08 in (2.0 mm) semi-tempered glass	
Frame	Anodized aluminum	
Cell	6 × 26 monocrystalline Q.ANTUM solar half cells	
Junction Box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes	
Cable	4 mm² Solar cable; (+) ≥27.6 in (700 mm), (-) ≥13.8 in (350 mm)	
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4, IP68	



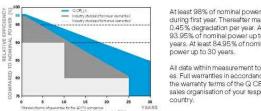
ELECTRICAL CHARACTERISTICS

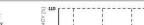
PO	VER CLASS			470		475		480		485	
MIN	IMUM PERFORMANCE AT STANDA	RD TEST CONDITIC	NS, STC1 /	AND BSTC [±] (F	OWER TOL	ERANCE +5	W/-0W)				
					BSTC*		BSTC*		BSTC*		BSTC*
	Power at MPP ¹	PMPP	[W]	470	514.1	475	519.6	480	525.0	485	530.5
Minimum	Short Circuit Current ¹	I _{sc}	[A]	11.04	12.08	11.08	12.12	11.12	12.17	11.16	12.21
	Open Circuit Voltage ¹	Vac	[V]	52.91	53.10	53.15	53.34	53.39	53.58	53.63	53.82
	Current at MPP	1 _{NPP}	[A]	10.51	11.50	10.55	11.54	10.59	11.58	10.63	11.63
	Voltage at MPP	V _{MPP}	[V]	44.73	44.72	45.03	45.02	45.33	45.32	45.63	45.62
	Efficiency ¹	η	[%]	≥20.3	≥22.2	≥20.5	≥22.4	≥20.7	≥22.7	≥20.9	≥22.9

++φ×135VV/m²,φ=70%±5%,25±2°C, AM 1.5 a

Power at MPP	PMPP	[W]	353.8	357.6	361.4	365.1
Short Circuit Current	l _{sc}	[A]	8.89	8.92	8.96	8.99
Open Circuit Voltage	Voc	[V]	50.04	50.27	50.49	50.72
Current at MPP	I _{MPP}	[A]	8.27	8.30	8.34	8.37
Voltage at MPP	V	[V]	42.77	43.06	43.35	43.63

Q CELLS PERFORMANCE WARRANTY







sales organisation of your respective country

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

TEMPERATURE COEFFICIENTS							
Temperature Coefficient of Isc	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	[°F]	108±5.4 (42±3°C)

PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage V_{SYS}	[V]	1500	PV module classification
Maximum Series Fuse Rating	[ADC]	20	Fire Rating based on ANSI / UL 61730
Max. Design Load, Push/Pull ³	[lbs/ft²]	75 (3600Pa)/33 (1600Pa)	Permitted Module Temperature
Max. Test Load, Push/Pull ^a	[lbs/ft ²]	113 (5400 Pa) / 50 (2400 Pa)	on Continuous Duty
^a See Installation Manual			*New Type is similar to Type 3 but with metallic fram

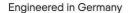
QUALIFICATIONS AND CERTIFICATES



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 use of this product.

Hanwha Q CELLS America Inc.

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949748 59 96 | EMAIL inquiry@us.q-cells.com | WEB www.q-cells.us



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SOUTHEAST ENERGY SOLUTIONS

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PERFORMANCE AT LOW IRRADIANCE



Class II TYPE 294 -40°F up to +185°F (-40°C up to +85°C)



15K-LV Spec Sheet

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Solar	Input Power 17000W
Max Allowed PV Power	17000W
Max PV Power Delivered to Battery & AC Outputs	15000W
Max DC Voltage (Voc)	500V @ 18A, 450V @ 20A
MPPT Voltage Range	150-425V
Starting Voltage	125V
Number of MPPT	3
Max Solar Strings Per MPPT	2
Max DC Current per MPPT (Self Lim- iting)	26A
Max AC Coupled Input (Micro/String Inverters)	19200W

AC Output Power 15kW On-Grid & Off-Grid

AC Output Fower 15km	
Connections	120/240/208V Split Phase
Continuous AC Power from PV	15000W 62.5A-L (240V)
Continuous AC Power from Batteries	12000W 50A-L (240V)
Surge AC Power 10sec	24,000W L-L (240V)
Surge AC Power 100ms	TBD
Parallel Stacking	Yes - 12 Max
Frequency	60/50Hz
Continuous AC Power with Grid or	48000W 200A L-L (240V)
Generator	24000W 200A L-N (120V)
CEC Efficiency	96.5% (Peak 97.5%)
Idle Consumption Typical—No Load	90W
Sell Back Power Modes	Limited to Household/Fully Grid-Tied
Design (DC to AC)	Transformerless DC
Response Time (Grid-Tied to Off-Grid)	4ms
Power Factor	+/- 0.9 - 1.0
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Battery (optional) Out	put Power 12000W
Туре	Lead-Acid or Li-Ion
Nominal DC Input	48V
Capacity	50 — 9900Ah
Voltage Range	43.0 — 63.0V
Continuous Battery Charging Output	275A
Charging Curve	3-Stage w/ Equalization
Grid to Batt Charging Efficiency	96.0%
External Temperature Sensor	Included
Current Shunt for Accurate % SOC	Integrated
External Gen Start Based on Voltage or %SOC	Integrated
Communication to Lithium Battery	CanBus & RS485

General	
Dimensions (H x W x D)	31.8" x 18.3" x 10.9"
Weight	101 lbs
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-40~60°C, >45°C Derating
Installation Style	Wall-Mounted
Wi-Fi & LAN Communication	Included
Standard Warranty (verified by HALT Testing)	10 Years

Protections & Certifications

	· · ·
Electronics Certified Safety by SGS Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6	Yes
Grid Sell Back — UL1741-2010/2018, IEE- E1547a-2003/2014, FCC 15 Class B, UL1741SA, CA Rule 21, HECO Rule 14H	Yes
PV DC Disconnect Switch — NEC 240.15	Integrated
Ground Fault Detection — NEC 690.5	Integrated
PV Rapid Shutdown Control — NEC 690.12	Integrated
PV Arc Fault Detection — NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
AC Output Breakers - 63A	Integrated
250A Battery Breaker / Disconnect	Integrated
Surge Protection	DC Type II / AC Type II



SOUTHEAST ENERGY SOLUTIONS

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Sol-Ark 8K-P Spec Sheet



Solar Input Power 9000V		
Max Allowed PV Power	5500W + 5500W = 11000W	
Max PV Power Delivered to Battery & AC Outputs	8000W	
Max DC Voltage (Voc)	500V @ 18A, 450V @ 20A	
MPPT Voltage Range	150-425V	
Starting Voltage	125V	
Number of MPPT	2	
Max Solar Strings Per MPPT	2	
Max DC Current per MPPT (Self Lim- iting)	20A	
Max AC Coupled Input (Micro/String Inverters)	9600W	

AC Output Power 8kW On-Grid & Off-Grid				
Connections	120/240/208V Split Phase			
Continuous AC Power to Grid (On-Grid)	8000W 33.3A-L (240V)			
Continuous AC Power to Load (Off- Grid)	8000W 33.3A-L (240V)			
Surge AC Power 10sec (Load)	16,000VA L-L (240V)			
Surge AC Power 100ms (Load)	25,000VA L-L(240V)			
Parallel Stacking	No			
Frequency	60/50Hz			
Continuous AC Power with Grid or	15120W 63A L-L (240V)			
Generator (Pass-through Power)	7560W 63A L-N (120V)			
CEC Efficiency	96.5% (Peak 97.5%)			
Idle Consumption Typical—No Load	60W			
Sell Back Power Modes	Limited to Household/Fully Grid-Tied			
Design (DC to AC)	Transformerless DC			
Response Time (Grid-Tied to Off-Grid)	4ms			
Power Factor	+/-0.9-1.0			

Battery (optional) Output Power 8000		
Туре	Lead-Acid or Li-Ion	
Nominal DC Input	48V	
Capacity	50 — 9900Ah	
Voltage Range	43.0 — 63.0V	
Continuous Battery Charging Output	185A	
Charging Curve	3-Stage w/ Equalization	
Grid to Batt Charging Efficiency	96.0%	
External Temperature Sensor	Included	
Current Shunt for Accurate % SOC	Integrated	
External Gen Start Based on Voltage or %SOC	Integrated	
Communication to Lithium Battery	CanBus & RS485	

General	
Dimensions (H x W x D)	30.0" x 18.3" x
Weight	78 lbs
Enclosure	NEMA 3R
Ambient Temperature	-25-55°C, >45°C
Installation Style	Wall-Mounted
Wi-Fi & LAN Communication	Included
Standard Warranty (verified by HALT Testing)	5 Years

Protections & Certifications	
Electronics Certified Safety by SGS Labs to NEC & UL Specs - NEC 690.4B & NEC 705.4/6	Yes
Grid Sell Back — UL1741-2010/2018, IEE- E1547a-2003/2014, FCC 15 Class B, UL1741SA,	Yes
PV DC Disconnect Switch — NEC 240.15	Integrated
Ground Fault Detection — NEC 690.5	Integrated
PV Rapid Shutdown Control — NEC 690.12	Integrated
PV Arc Fault Detection — NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
AC Output Breakers - 63A	Integrated
250A Battery Breaker / Disconnect	Integrated
Surge Protection	DC Type II / AC Type II



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SUNMODIA GO BIG ON TURF



SunModo offers

the next generation Ground Mount System with SunTurf[™]. The streamlined design combines the strength of Helio Rails with steel pipes to create the perfect ground mount solution.

SurTurf[™] is ideal for solar installers looking for a durable and cost-effective system that can accommodate a wide variety of soil conditions.

The SunTurf[™] Ground Mount Advantage

- Easily scalable from kilowatts to multimegawatts PV Arrays.
- ✓ Foundation design solution for every soil condition.
- ✓ Online configuration tool available to streamline design process.
- Components optimized for strength, durability and fast installation.
- ✓ UL 2703 Listed by Intertek.

Key Features of SunTurf™ Ground Mount System



SunTurf[™] Ground Mount System easily integrate Helio Rails with Schedule 40 steel pipes. No drilling is required to attach the aluminum rails to the horizontal pipe. Optional bracing can provide additional structural rigidity for sites with high snow or wind load conditions. Anchor any ground mount installation using one of our fountain types including helical piles, precast ballasts and concrete piers.





Augers and Ground Screws

Our augers are suitable for use in weak to moderate strength soils and areas with a high-water table. Our ground screws are ideal for use in hard packed earth or soils with large amounts of cobble and gravel.





Technical Data	
Application	Ground Mount
Material	High grade aluminum, galvanized steel and
Module Orientation	Portrait and Landscape
Tilt Angle	Range between 10 to 50 degrees
Foundation Types	Post in concrete, helical earth auger, ground
Structural Integrity	Stamped engineering letters available
Certificate	UL2703 listed by ETL
Warranty	25 years

SunModo, Corp. Vancouver, WA., USA • www.sunmodo.com • 360.844.0048 • info@sunmodo.com



d 304 stainless steel hardware

d screw anchor and ballast



SOUTHEAST ENERGY SOLUTIONS

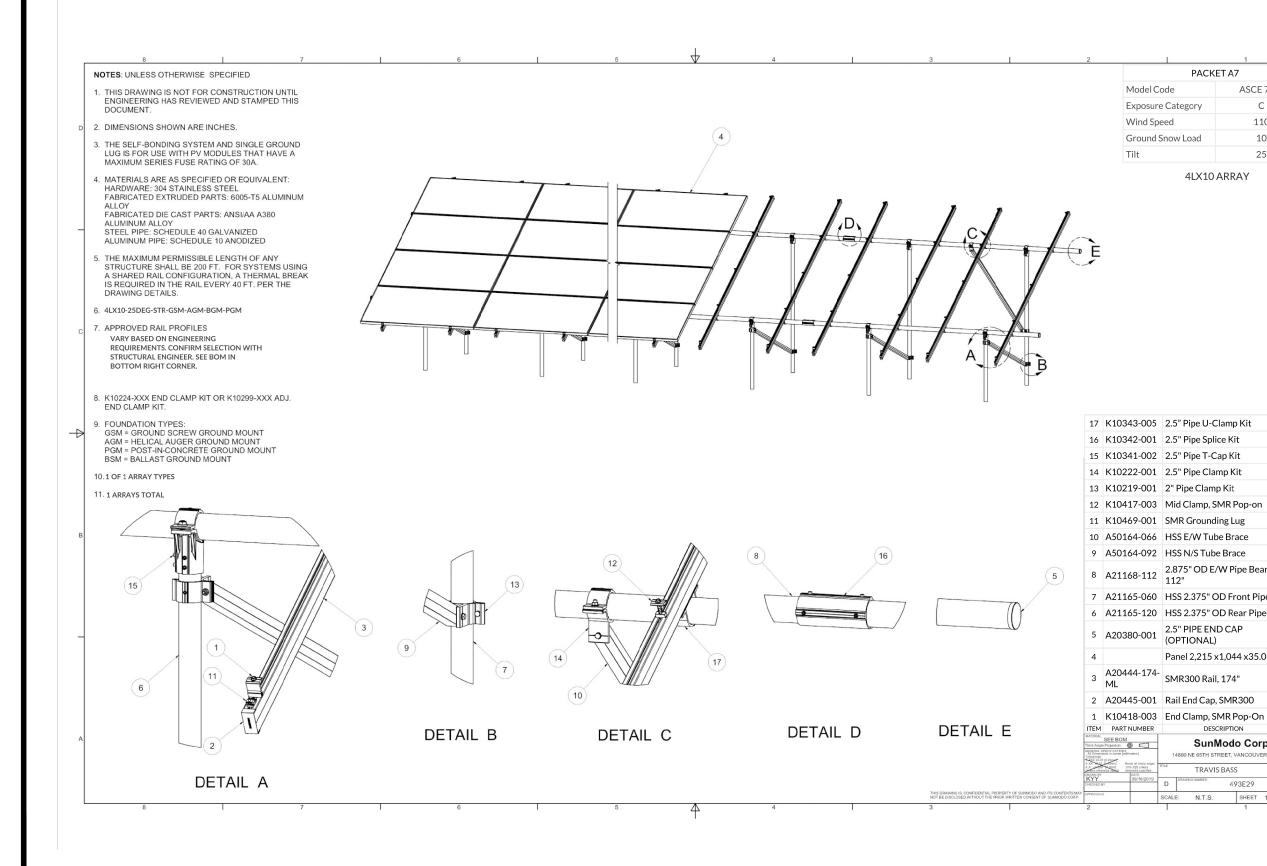
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Sub Array #1 Layout

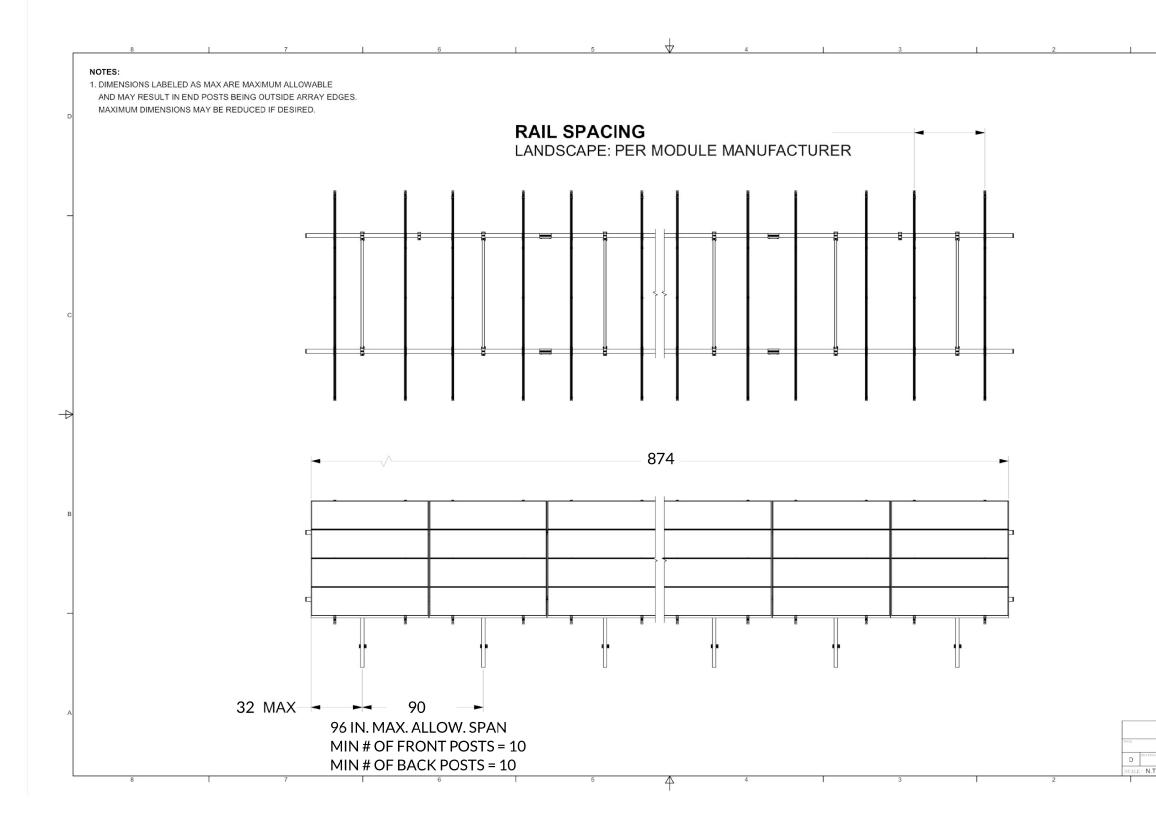




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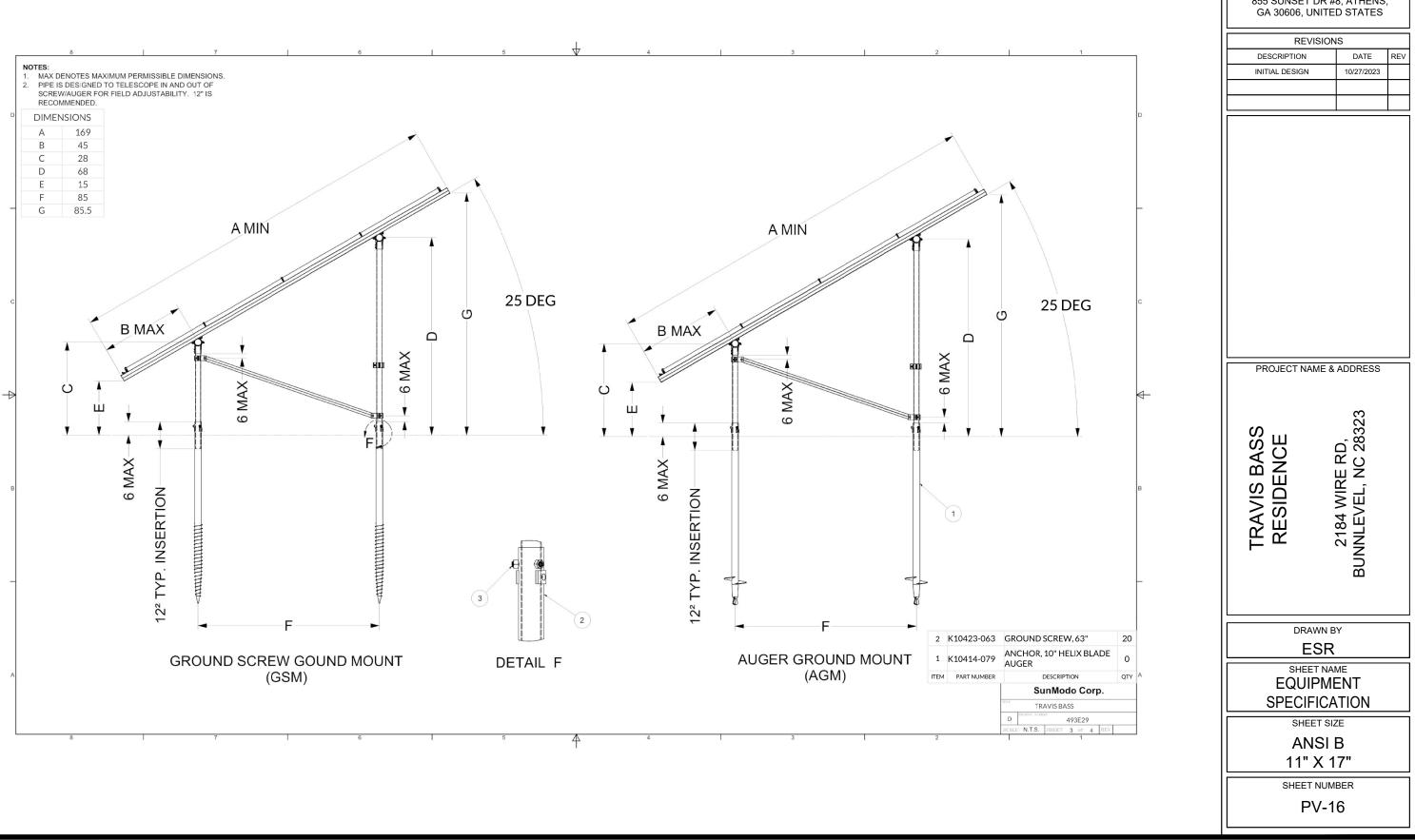






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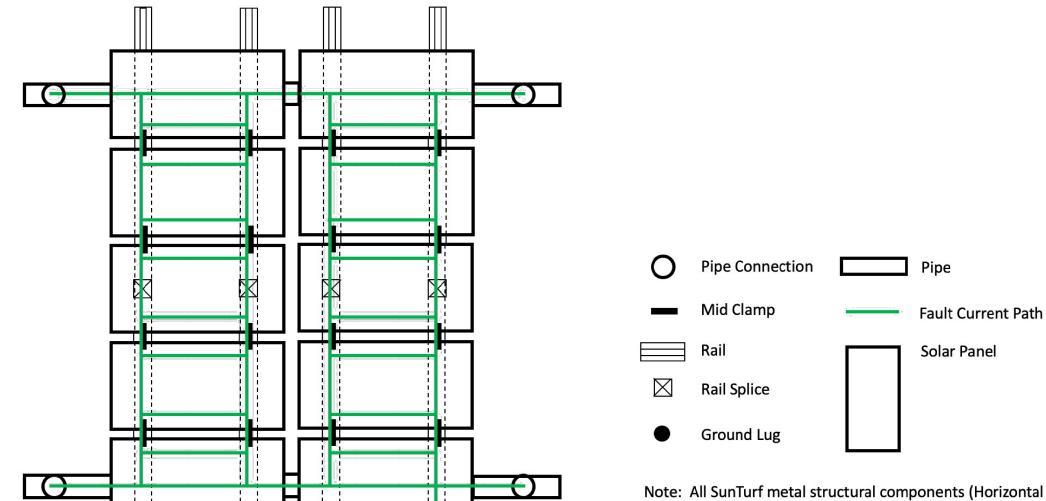
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Note: All SunTurf metal structural components (Horizontal and Vertical Pipe, Pipe Splices, Post Caps, Pipe Clamps, Braces, Rail and Rail Splices) are electrically bonded together by design during the assembly of the racking.



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