SYSTEM INFORMATION							
MODULE	HANWHA Q.PEAK DUO BLK-G10+ 365						
INVERTER	ENPHASE IQ8PLUS-72-2-US						
RACKING	ROOFTECH RT-MINI II W/ UNIRAC NXT HORIZON 2-RAIL RACKING SYSTEM						
SYSTEM SIZE (DC)	6.57 KW						
LOCATION	30.1897210,-82.7013650						

GENERAL	NOTES:
----------------	---------------

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE ASCE 7-16, 7TH EDITION 2020 FLORIDA RESIDENTIAL CODE, 7TH EDITION 2020 FLORIDA BUILDING CODE, 7TH EDITION 2020 FLORIDA FIRE PREVENTION CODE, NEC 2017 AND ALL LOCAL CODES & ORDINANCES.

ROOF SHALL HAVE NO MORE THAN TWO LAYERS OF COVERING IN ADDITION TO THE SOLAR EQUIPMENT.

INSTALLATION OF SOLAR EQUIPMENT SHALL BE FLUSH MOUNTED, PARALLEL TO AND NO MORE THAN 6-INCHES ABOVE THE SURFACE OF THE ROOF.

ANY PLUMBING VENTS ARE NOT TO BE CUT OR COVERED FOR SOLAR EQUIPMENT INSTALLATION. ANY RELOCATION OR MODIFICATION OF THE VENT REQUIRES A PLUMBING PERMIT AND INSPECTION.

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

INVERTER PLACEMENT:

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

STRUCTURAL STATEMENT:

THE EXISTING STRUCTURE IS ADEQUATE TO SUPPORT THE NEW LOADS IMPOSED BY THE PHOTOVOLTAIC MODULE SYSTEM INCLUDING UPLIFT & SHEAR.EXISTING RAFTER SIZES & DIMENSIONS CONFORM TO 7TH EDITION 2020 FLORIDA RESIDENTIAL CODE

MOUNTING BRACKETS AND HARDWARE MEET OR EXCEED FLORIDA CODE REQUIREMENTS FOR THE DESIGN CRITERIA OF THE TOWN.

FSEC CERTIFICATION STATEMENT:

PER FL. STATUE 377.705, I, MINA A. MAKAR PE# 86753, CERTIFICATE OF AUTHORIZATION #33404, AN ENGINEER LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE DESIGNED AND APPROVED USING THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING CODE. FBC 2020

CLIMATIC & GEOGRAPHIC DES R301.2(1)	IGN CRITERIA TABLE
SPEED (MPH)	120
TOPOGRAPHIC EFFECTS	В
SPECIAL WIND REGION	NO
WIND BORNE DEBRIS ZONE	2
SEISMIC DESIGN CATEGORY	С
CLIMATE ZONE	2A
WIND EXPOSURE CATETORY	В

FBC, RESIDENTIAL 2020

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

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

a. Linear interpolation is permitted.

HANWHA Q.PEAK DUO BLK-G10+ 365 365 WATT MODULE 67.6" X 41.1" X 1.26" (SEE DATASHEET)

	PLAN KEY
PV-1	COVER PAGE
PV-1.1	ATTACHMENT DETAIL
PV-1.1 (2)	ATTACHMENT DETAIL CONT.
PV-2	ROOF LAYOUT
PV-3	ELECTRICAL
PV-3.1	ELECTRICAL CONT.
PV-3.2	EQUIPMENT LABELS



BILL OF MATERIALS							
MODULES	18						
INVERTERS	18						
L-FOOT ATTACHMENT W/ RT-MINI	42						
171" RAILS	8						
SKIRTS	0						
ENPHASE COMBINER BOX	1						
EATON 60A FUSIBLE AC DISCONNECT	1						
35A FUSES	2						
30A BACKFEED BREAKER	1						



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING



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Date: 2023.05.31 02:05:37 -05:00

SOLAR CONTRACTOR

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

CUSTOMER INFORMATION

GREG NORTHROP - MS127880 613 NORTHWEST OAKMONT WAY LAKE CITY, FL 32055 6083042502

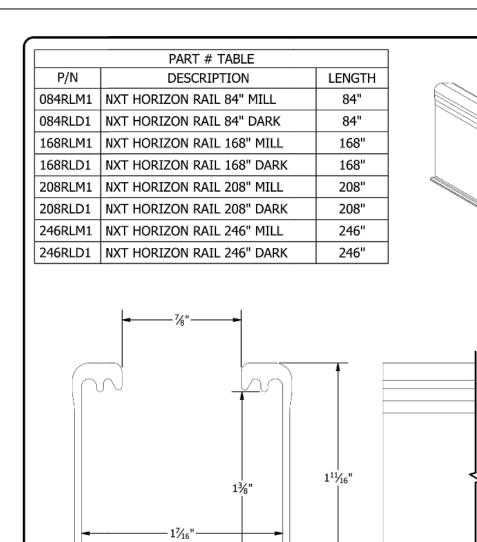
PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 6.57 KW 18 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 18 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION										
NITIAL	DATE: 5/31/2023	DESIGNER: KJL								
EV:	DATE:	DESIGNER:								
EV:	DATE:	DESIGNER:								

COVER PAGE

PV-1



1411 BROADWAY BLVD, NE

ALBUQUERQUE, NM 87102 USA

PHONE: 505.242.6411

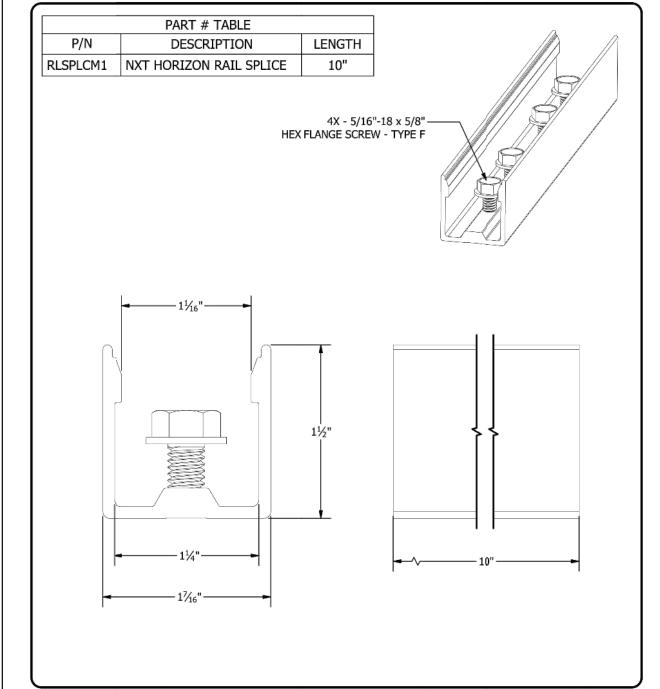
WWW.UNIRAC.COM

PRODUCT LINE:	NXT HORIZON	DRAWING NOT TO SCALI
DRAWING TYPE:	PART DETAIL	NOMINAL
DESCRIPTION:	RAIL	PRODUCT PROTECTED BY ONE OR MORE US PATENT
REVISION DATE:	9/13/2021	LEGAL NOTICE

LENGTH

NH-P01

SHEET





1411 BROADWAY BLVD. NE ALBUQUERQUE, NM 87102 USA PHONE: 505.242.6411 WWW.UNIRAC.COM PRODUCT LINE: NXT HORIZON

DRAWING TYPE: PART DETAIL

DESCRIPTION: RAIL SPLICE

REVISION DATE: 9/22/2021

DRAWING NOT TO SCALE ALL DIMENSIONS ARE NOMINAL

PRODUCT PROTECTED BY ONE OR MORE US PATENTS LEGAL NOTICE

NH-P02

momentum

PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING

No PE86753

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Reason: Digitally signed by Mina
A Maker: Reason of This it is has been electronically signed and sealed by Minama. Maker, PE 86753, COA # 33404] on the Date most digital teignature of rinted expressor digital teignature of rinted expressor digital teignature of sealed # and the signature arust hee Stamp yrother ignature arust hee Stamp yrother ignature arust hee Stamp

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MOMENTUM SOLAR
5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

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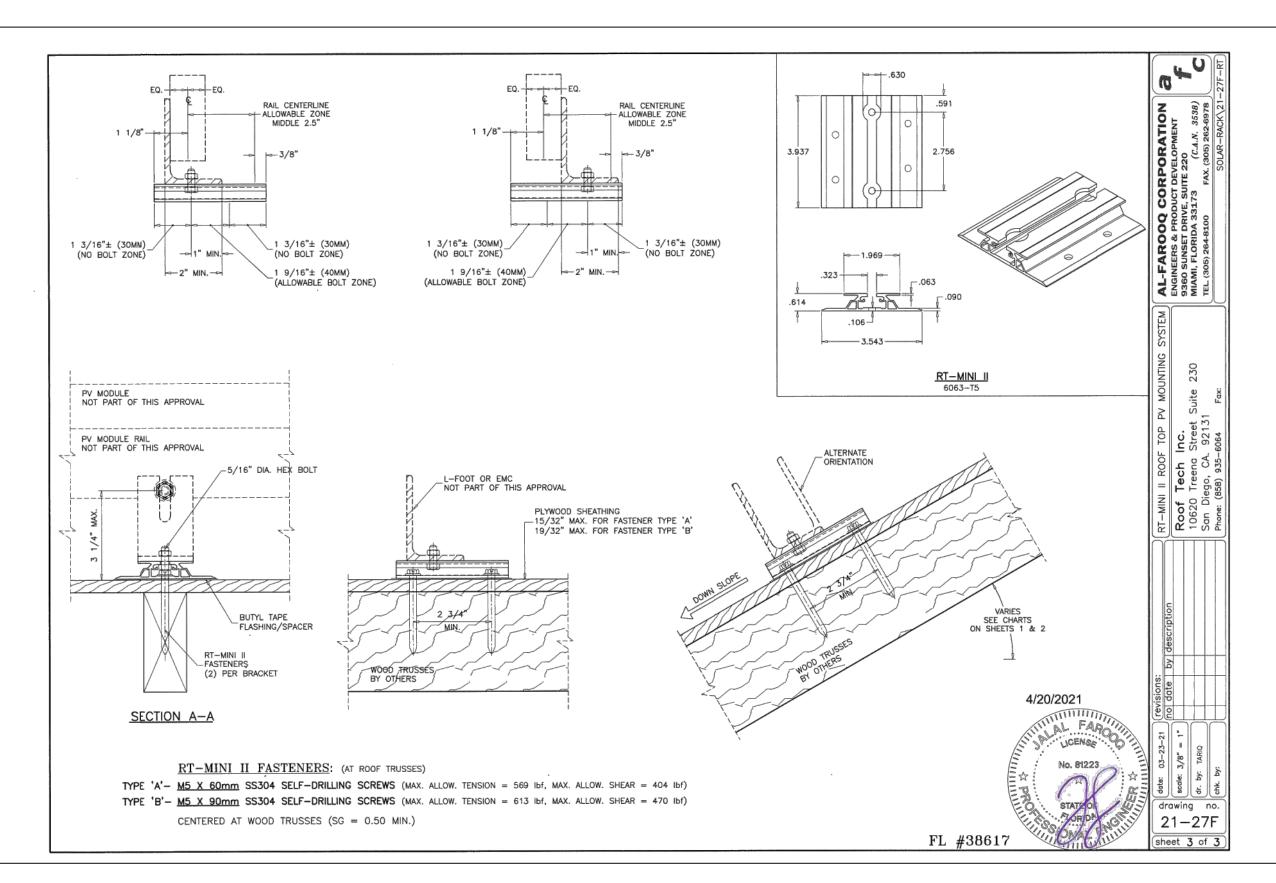
PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 6.57 KW
18 MODULES: HANWHA Q.PEAK DUO
BLK-G10+ 365
18 INVERTERS: ENPHASE
IQ8PLUS-72-2-US

PROJECT INFORMATION									
INITIAL	DATE: 5/31/2023	DESIGNER: KJL							
REV:	DATE:	DESIGNER:							
REV:	DATE:	DESIGNER:							

ATTACHMENT DETAIL

PV-1.1



ATTACHMENT DETAIL FOR SHINGLE ROOF



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No PE86753

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Date: 2023.05.31 02:05:37 -05:00

SOLAR CONTRACTOR

CERTIFIED SOLAR CONTRACTOR LICENSE NUMBER: CVC570
MOMENTUM SOLAR
5728 MAJOR BLVD. SUITE 307, ORLANDO FL. 32819

CUSTOMER INFORMATION

GREG NORTHROP - MS127880 613 NORTHWEST OAKMONT WAY LAKE CITY, FL 32055 6083042502

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 6.57 KW 18 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 18 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION											
INITIAL	DATE: 5/31/2023	DESIGNER: KJL									
REV:	DATE:	DESIGNER:									
REV:	DATE:	DESIGNER:									

ATTACHMENT DETAIL

PV-1.1 (2)

	ı			T		r	T			
SCALE: 3/32" = 1'-0"	ROOF	PANEL COUNT	TILT	AZIMUTH	SHADING	LANDSCAPE MAX SPAN (ROOF AREA 1/2/3)	PORTRAIT MAX SPAN (ROOF AREA 1/2/3)	LANDSCAPE MAX CANTILEVER	PORTRAIT MAX CANTILEVER	
	R1	11	25°	214°	99%	48 /32 /32	48 /32 /32	16 /10 /10	16 /10 /10	momentum
	R2	7	25°	124°	94%	48 /32 /32	48 /32 /32	16 /10 /10	16 /10 /10	SOLAR
										PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMSOLAR.COM
										PROFESSIONAL ENGINEERING
M) MSP AC DISC CB ELECTRICAL EQUIPMENT DRIVEWAY		6'-4"	GI	TIDGE 3' 0" 3' R1 7½" 7½" -	-0"	<u> </u>	E SETBACK ,18" VENTILATION, ROOF ACCESS) (TYP) — RAFTER SPACING 24" O.C. (TYP)	TOTAL SQUARE FOOTAGE OF SQUARE FOOTAGE OF SQUARE FOOTAGE OF SOLAR ROOTAGE	F ROOF: 3709 SQFT R ARRAY:347.3 SQFT DF COVERAGE: 9.37%	Digitally signed by Reason: Digitally signed by Reason: Digitally signed by Reason: Digitally signed by Mina A Maker. Reason of this it in has been electronically signed and sealed by Mina Maker, PE 86753, COA # 93404] on the Date Ansigned Stamp Anawkar. Reason digital signature and season digital signature and season digital signature and season which an any signature and the Stamp serifical signature and the Stamp serifical signature must be verified on any electronic copies Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies Date: 2023.05.31 02:05:37 -05:00 SOLAR CONTRACTOR CAMPERON CHRISTERIN CERTIFIED SOLAR CONTRACTOR INTEREST ENDERS NUMBER: CVC57036 MOMENTUM SOLAR ST28 MAJOR BLVD. SUITE 307. ORLANDO FL. 32819 CUSTOMER INFORMATION GREG NORTHROP - MS127880 613 NORTHWEST OAKMONT WAY LAKE CITY, FL 32055 6083042502 PV SYSTEM INFORMATION SYSTEM SIZE (DC): 6.57 KW 18 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 18 INVERTERS: ENPHASE IQ8PLUS-72-2-US
								UDC UTILITY DISCONNECT	FAN	
			FRON	T OF RESIDEN	CE			LC LOAD CENTER	SATELLITE DISH	PROJECT INFORMATION INITIAL DATE: 5/21/2022 DESIGNED: VII
CLAMPING MAX SPACING IN ZONE 1 7	2" O.C			NORTHWEST DAKMONT WAY				N3R NEMA 3R BOX W/ ENVOY-S	FIRE SETBACKS	REV: DATE: 5/31/2023 DESIGNER: KIL DATE: DESIGNER:
AND IN ZONE 2 AND ZONE 3 48" O.C			_					CB COMBINER BOX	MIN 3'x3' GROUND ACCESS POINT	REV: DATE: DESIGNER:
NOTE: 1. ROOF COVERING MATERIAL IS COMP				ITE SHINGLE.				D MODULE	PITCH DIRECTION	ROOF LAYOUT
2. REFER TO LAYOUT DETAIL DRAWING	PV-3 FOR A	LL ROOFTOP DIMEN	NSIONS.						WIND PRESSURE ZONE LINES. REFER TO PV-2.2 FOR ADDITIONAL INFO	PV-2

PV MODULE RATINGS INVERTER RA		INVERTER RATINGS		VOLTAGE DROP CALCULATIONS								
MODULE MAKE	HANWHA	INVERTER MAKE	ENPHASE		FORMULA US	ED PER NEC H	ANDBOOK 215	5.2(A)(4) WHE	RE APPLICABL	E		
MODEL	Q.PEAK DUO	MODEL	IQ8PLUS-72-2-	WIRE RUN	V_{mp}	I _{mp}	R	L (FT)	Vo	% V _o	WIRE SIZE	
-	BLK-G10+ 365	WIODEL	US	BRANCH TO J-BOX	240.00	13.31	1.98	72.42	3.817	1.59%	12 AWG	ĺ
MAX POWER	365W	MAX OUTPUT POWER	290W	DIVANCII 10 J-BOX	240.00	15.51	1.98	72.42	3.817	1.59%	12 AWG	PE
OPEN CIRCUIT VOLTAGE	41.21V	OPEN DC VOLTAGE	60V	J-BOX TO LOAD CENTER	240.00	21.78	1.24	50.00	2.701	1.13%	10 AWG	
MPP VOLTAGE	34.58V	NOMINAL AC VOLTAGE	240V	LOAD CENTER TO AC							-	_
SHORT CIRCUIT CURRENT	11.07A	MAX AC CURRENT	1.21A	DISCONNECT	240.00	27.225	0.778	3.00	0.127	0.05%	08 AWG	
MPP CURRENT	10.56A	CEC INVERTER EFFICIENCY	97%	AC DISCONNECT TO INTERCONNECTION	240.00	27.225	0.778	10.00	0.424	0.18%	08 AWG	
NUMBER OF MODULES	18	NUMBER OF INVERTERS	18	INTERCONNECTION								1

OF MODULES SUB PANEL **BREAKER SIZE**

UP TO 16

YES

PV BREAKER PER BRANCH 20A

_UL1703 COMPLIANT

18 HANWHA Q.PEAK DUO BLK-G10+ 365 365W MODULES PAIRED WITH 18 ENPHASE IQ8PLUS-72-2-US MICRO-INVERTERS

THIS SOLAR PHOTOVOLTAIC SYSTEM COMPLIES WITH THE 2020 FLORIDA BUILDING CODE AND THE 2017 NATIONAL ELECTRICAL CODE

YES

NEC 705.12(B)(2)(3)(b) 120% RULE

(1.25 x INVERTER OUTPUT) + MAIN OCPD ≤ BUS RATING x 1.20 $(1.25 \times 21.78) + 200 \le 200 \times 1.20$

FSEC CERTIFICATION STATEMENT:

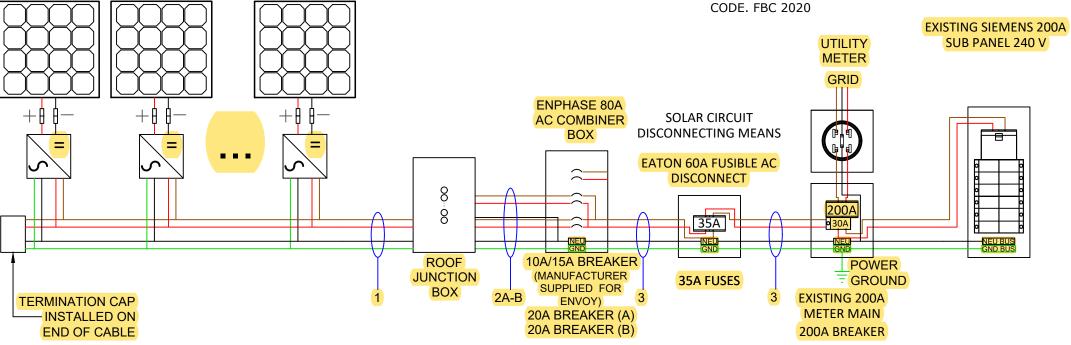
PER FL. STATUE 377.705, I, MINA A. MAKAR PE# 86753,
CERTIFICATE OF AUTHORIZATION #33404, AN ENGINEER
LICENSED PURSUANT TO CHAPTER 471, CERTIFY THAT THE PV
ELECTRICAL SYSTEM AND ELECTRICAL COMPONENTS ARE
DESIGNED AND APPROVED USING THE STANDARDS CONTAINED

NOTIFIE MOST RECENT VERSION OF THE STANDARDS REPORT OF THE STANDARDS CONTAINED

NOTIFIE MOST RECENT VERSION OF THE STANDARDS REPORT OF THE STANDARDS CONTAINED IN THE MOST RECENT VERSION OF THE FLORIDA BUILDING

BRANCH CIRCUIT A 11 MICRO-INVERTERS **BRANCH CIRCUIT B** 7 MICRO-INVERTERS

UL1703 COMPLIANT



Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	11	1.21	1.25	16.64	12 AWG	Trunk Cable
2A	2/411 DVC	4	10 AWG	THWN-2	75°C	35	0.96	0.0	26.88	11	1.21	1.25	16.64	00 414/6	THWN-2
2B	3/4" PVC	4	10 AWG	THWN-2	75°C	35	0.96	0.8	26.88	7	1.21	1.25	10.59	08 AWG	THWN-2
3	3/4" PVC	3 + G	08 AWG	THWN-2	75°C	50	0.96	1	48.00	18	1.21	1.25	27.23	08 AWG	THWN-2

NOTE: LETTER "G" IN WIRE QTY TAB STANDS FOR GROUNDING CONDUCTOR.



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SOLAR CONTRACTOR

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

CUSTOMER INFORMATION

GREG NORTHROP - MS127880 613 NORTHWEST OAKMONT WAY LAKE CITY, FL 32055 6083042502

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 6.57 KW 18 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 18 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION						
INITIAL	DATE: 5/31/2023	DESIGNER: KJL				
REV:	DATE:	DESIGNER:				
REV:	DATE:	DESIGNER:				
- ·						

THREE LINE DIAGRAM

PV-3

ELECTRICAL NOTES:

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

- 22. WORKING CLEARANCES AROUND THE EXISTING AND NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH NEC ARTICLE 110.26
- CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER NEC ARTICLE 300.6 (C)(1) AND ARTICLE 310.8 (D).
- 24. CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER NEC ARTICLE 310.10 (C).
- 25. TOTAL AREA OF ALL CONDUCTORS, SPLICES, AND TAPS INSTALLED AT ANY CROSS SECTION OF THE WIRING DOES NOT EXCEED 75% OF THE CROSS SECTIONAL AREA OF THE SPACE. NEC 312.8(A)(2).
- 26. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPLIES WITH 690.6 - NO DC DISCONNECT AND ASSOCIATED DC LABELING ARE REQUIRED.
- 27. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED 690.52.
- 28. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS, 690.6.
- 29. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES WILL COMPLY WITH 250.64.
- 30. NO TERMINALS SHALL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.13, 690.15, 690.6.
- 31. WHERE APPLICABLE: INTERCONNECTION SHALL COMPLY WITH 705.12(A) OR 705.12(B)
- 32. ALL WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH 2017 NEC ARTICLE 110.21(B). LABEL WARNINGS SHALL ADEQUATELY WARN OF THE HAZARD. LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONMENT.
- PV POWER CIRCUIT LABELS SHALL APPEAR ON EVERY SECTION OF THE WIRING SYSTEM THAT IS SEPARATED BY ENCLOSURES. WALLS, PARTITIONS, CEILINGS, OR FLOORS.

TABLE 1:

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

INSTRUCTIONS FOR LINE TAPS

FIGURE 1:

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





PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMS OF ARCOM

PROFESSIONAL



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SOLAR CONTRACTOR

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

CUSTOMER INFORMATION

GREG NORTHROP - MS127880 613 NORTHWEST OAKMONT WAY LAKE CITY, FL 32055 6083042502

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 6.57 KW 18 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 18 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION						
INITIAL	DATE: 5/31/2023	DESIGNER: KJL				
REV:	DATE:	DESIGNER:				
REV:	DATE:	DESIGNER:				

ELECTRICAL CONT.

PV-3.1

ALL	WARNING SIGN(S) OR LABEL(S) SHALL COMPLY WITH NEC ARTICLE 110.21(B). LABEL WARNINGS SHA	LL ADEQUATELY W	ARN OF THE HAZARD. LABE	LS SHALL BE PERMANENTLY AFFIXED TO THE	EQUIPMENT, AND LABELS REQUIRED SHALL BE SUITABLE FOR THE ENVIRONMENT.
TAG	LABEL	QUANTITY	LOCATION	NOTE	EXAMPLES
A	AC SOLAR VOLTAGE	12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'	
B	WARNING: PHOTOVOLTAIC POWER SOURCE PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN	1	COMBINER BOX	1 AT ANY COMBINER BOX	
©	ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION	1	JUNCTION BOX	1 AT ANY JUNCTION BOX	
(D)	PHOTOVOLTAIC SYSTEM A C DISCONNECT RATED AC OUTPUT CURRENT NOMINAL OPERATING AC VOLTAGE POWER TO THIS SERVICE IS ALSO SUPPLIED FROM ON-SITE SOLAR GENERATION AC SYSTEM DISCONNECT AC WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM INSTALLED BY MOMENTUM SOLAR 3096 B HAMILTON BLVD S. PLAINFIELD, NJ 07080 PHONE NUMBER:732-902-6224	1	AC DISCONNECT (RSD SWITCH)	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	A)
Ē	DUAL POWER SUPPLY SECOND SOURCE IS PHOTOVOLTAIC SYSTEM	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD	MARNING ECTRIC SHOCK HEARD DO NOT TOUGH TERMINAS TERMINAS TRIPOT HE EUE NO DOS DESERVANTE EN PROSECUL IN THE OPEN POSITION THE OPEN POSITION THE OPEN POSITION
(G)	EMERGENCY RESPONDER THIS SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN ENTIRE PV SYSTEM SECTIONS OF THE IN PUBLIC PROPERTY ON WHICH THE RAPID ASSECTIONS OF THE IN PUBLIC THE RAPID ASSECTION OF THE IN PUBLIC THE INFO ASSECTION OF THE INFO ASSECTI	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING	CO TOTAL CONTROL OF THE PARTY O
	POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE	1	BACKFEED PANEL	INTERCONNECTION POINT AND ONE DIRECTORY PLACARD	# 1.210+ce # 1.351 828 ## 1.20+ce # 1.351 828 ## 1.350-ce # 1.351 828
\oplus	NOMINAL OPERATING AC VOLTAGE: 240V NOMINAL OPERATING AC FREQUENCY: 60HZ MAXIMUM AC POWER: VA MAXIMUM AC CURRENT: A MAXIMUM OVERCURRENT DEVICE RATING FOR AC MODULE PROTECTION: 20A	1	AC CURRENT PV MODULES		WARNING A CILL PAUVER SUPPLY SYMMET VILLE TO BE AND NOOLAH ELECTR C SYNTEN

















G BACKFEED



PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR 325 HIGH STREET, METUCHEN, NJ 08840 (732) 902-6224 MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING

No PE86753

Digitally signed by Reason: Digitally signed by Reason: Digitally signed by Mina A Maker: Reason of this it in has been electronically signed and sealed by Mina Maker, PE 86753, COA # \$3404] on the Bate and Time Stemps shower Date and Jierb Stame Ahawar. Rejaspa digitalteignatureeRrinted enpires notathis indocuments a see noty pansidenalisigned and sealed # andounesignature must be Stamp serified singay iglectromist copies

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

Date: 2023.05.31 02:05:37 -05:00

SOLAR CONTRACTOR

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

CUSTOMER INFORMATION

GREG NORTHROP - MS127880 613 NORTHWEST OAKMONT WAY LAKE CITY, FL 32055 6083042502

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 6.57 KW 18 MODULES: HANWHA Q.PEAK DUO BLK-G10+ 365 18 INVERTERS: ENPHASE IQ8PLUS-72-2-US

PROJECT INFORMATION						
INITIAL	DATE: 5/31/2023	DESIGNER: KJL				
REV:	DATE:	DESIGNER:				
REV:	DATE:	DESIGNER:				

EQUIPMENT LABELS

PV-3.2