PLAN KEY					
PV-1 COVER PAGE					
PV-2	PANEL LAYOUT				
PV-3	LAYOUT DETAIL				
PV-4	EQUIPMENT LABELS				

SYSTEM INFORMATION					
HANWHA Q.PEAK DUO BLK-G10+ 365					
ENPHASE IQ7PLUS-72-2-US					
ROOFTECH RT-APEX					
12.775 KW					
40.6110674, -74.4187385					

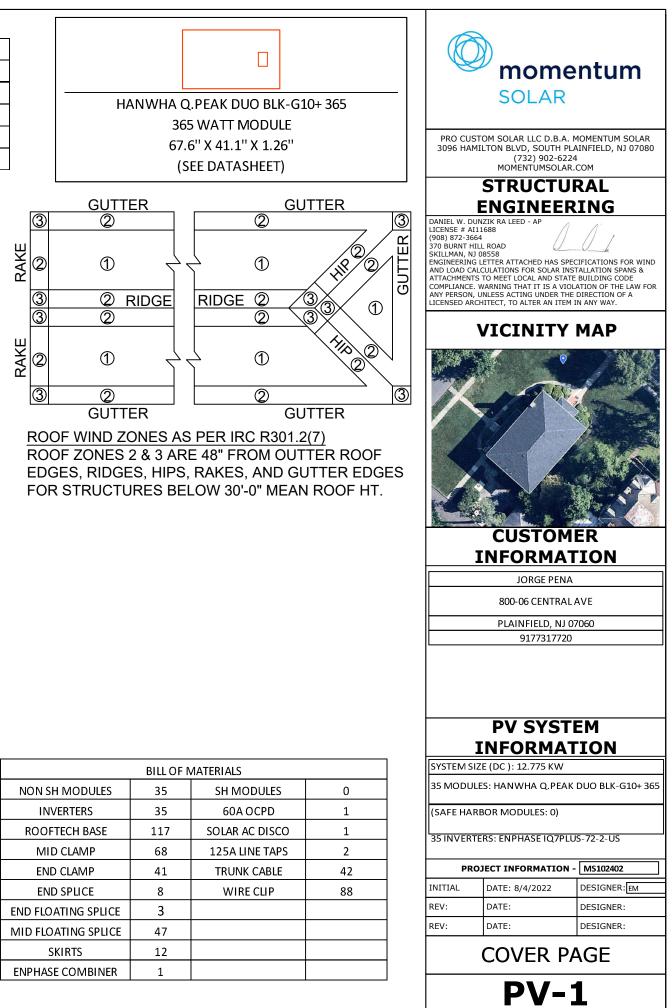
\*X= 2 OR M DEPENDING ON MANUFACTURER'S AVAILABILITY. SAME ELECTRICAL CHARACTERISTICS WITH DIFFERENT DC CONNECTOR. SEE SPECS FOR DETAILS.

- 1. ALL WIND DESIGN CRITERIA ARE FOR LOW SLOPE ROOFS, GABLE AND HIP ROOFS CONSIDERED FROM AN ANGLE OF MIN. 9.5 ° ( $\frac{2}{12}$ ) TO MAX. 45° ( $\frac{12}{12}$ ) NOT TO EXCEED 30' MEAN ROOF HEIGHT ATTACHED WITH FASTENERS AS SPECIFIED BY THE MANUFACTURER.
- 2. SPAN TABLES ARE DERIVED FROM MECHANICAL LOAD TESTS PERFORMED BY THE MANUFACTURERS INDEPENDENT TESTING AGENCIES ON BEHALF OF THE MANUFACTURER.
- 3. ROOF SEALANTS SHALL CONFORM TO ASTMC920 AND ASTM 6511
- 4. ALL ATTACHMENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.

## **FASTENER:**

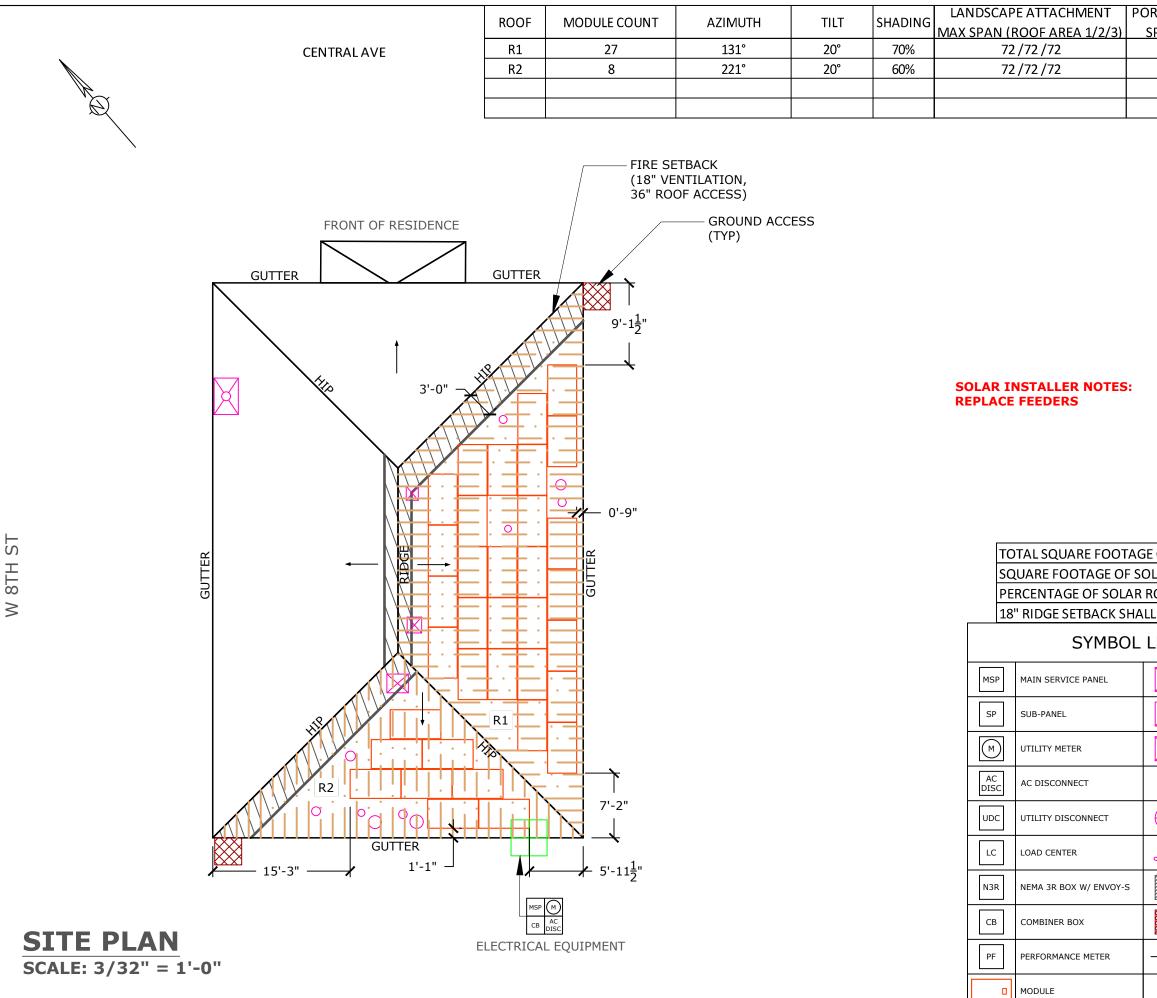
REFER TO STRUCTURAL CERTIFICATION LETTER FOR ALL STRUCTURAL INFORMATION OF EXISTING BUILDING STRUCTURE.

ATTACHMENT SPACING NOT EXCEED MANUFACTURERS SPECIFICATIONS FOR WIND LOADS AS PER ASCE 07-16. RISK CATEGORY II TOPOGRAPHIC EFFECTS B,C, & D AND ROOF WIND ZONES 1.2.& 3. ROOF ZONES 2 & 3 ARE WITHIN 48" OF ANY OUTER EDGE. HIP. RIDGE. OR GUTTER LINE FOR STRUCTURES 30'- 0" OR LESS MEAN ROOF HEIGHT.



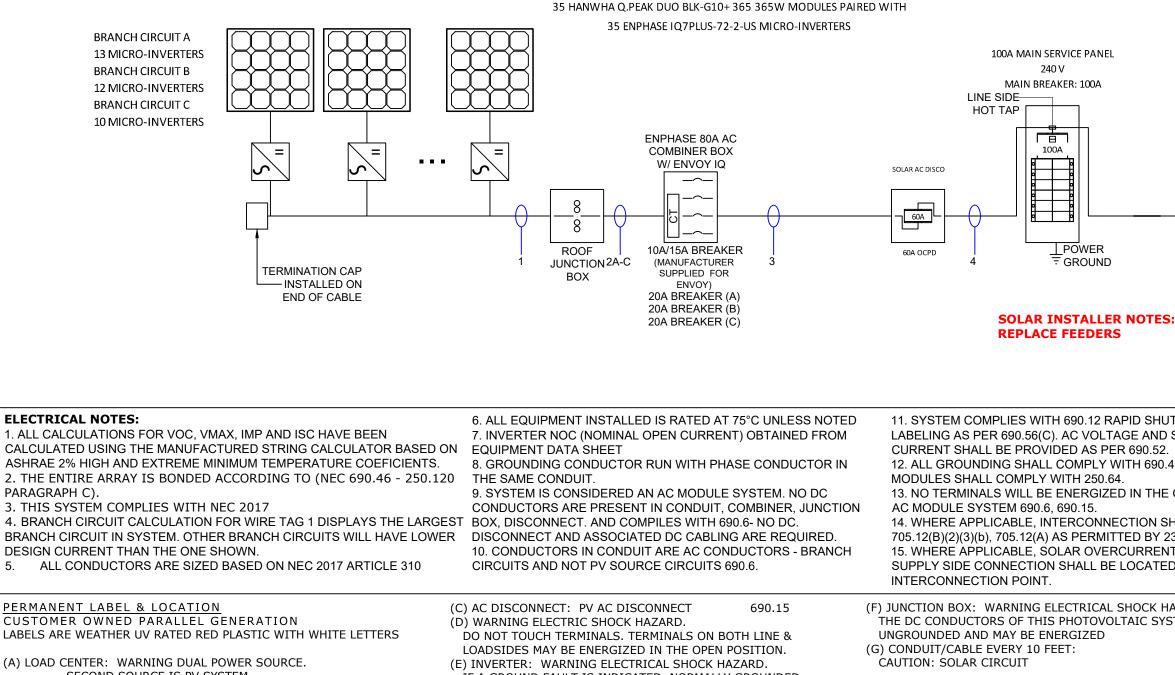


	BILL OF MATERIALS				
NON SH MODULES	35	SH MODU			
INVERTERS	35	60A OCF			
ROOFTECH BASE	117	SOLAR AC D			
MID CLAMP	68	125A LINE			
END CLAMP	41	TRUNK CA			
END SPLICE	8	WIRE CL			
END FLOATING SPLICE	3				
MID FLOATING SPLICE	47				
SKIRTS	12				
ENPHASE COMBINER	1				
	1				



ST 8TH

	ATTACHMENT MAX						
PAN (I	ROOF AREA 1/2/3)	(R	7				
	44 /44 /44		V				
	44 /44 /44		mome	entum			
			SOLAR				
			OM SOLAR LLC D.B.A. I	MOMENTUM SOLAR			
			LTON BLVD, SOUTH PL (732) 902-6224	AINFIELD, NJ 07080			
			MOMENTUMSOLAR.	.COM			
			STRUCTU	RAL			
		E	ENGINEER	ING			
			ZIK RA LEED - AP	Λ			
		(908) 872-3664 370 BURNT HIL					
			ETTER ATTACHED HAS SPE				
		ATTACHMENTS	CULATIONS FOR SOLAR INS TO MEET LOCAL AND STATE VARNING THAT IT IS A VIOL	BUILDING CODE			
		ANY PERSON, U	ILESS ACTING UNDER THE	DIRECTION OF A			
			CUSTOM	ER			
OF RC	OF: 2701.169921875	<b>T</b>	NFORMAT				
	RAY:675.3 SQFT	i	JORGE PENA				
	OVERAGE: 25.01%			A)/5			
		800-06 CENTRAL AVE					
. DE KE	QUIRED	PLAINFIELD, NJ 07060					
EGE	ND	L	9177317720	]			
		4					
	CHIMNEY						
		{					
	SKYLIGHT		<b>PV SYST</b>	EM			
		┤ _					
X	VENT	-	NFORMAT				
لاــــــ			E (DC ): 12.775 KW				
0	PIPE VENT	35 MODULE	S: HANWHA Q.PEAK	DUO BLK-G10+ 365			
		(SAFE HARE	BOR MODULES: 0)				
$\bigcirc$	FAN						
ກ		35 INVERTE	RS: ENPHASE IQ7PLL	JS-72-2-US			
Ł	SATELLITE DISH	PRO	JECT INFORMATION -	- MS102402			
		INITIAL	DATE: 8/4/2022	DESIGNER:			
	FIRE SETBACKS	REV:	DATE:	DESIGNER:			
	GROUND ACCESS	REV:	DATE:	DESIGNER:			
				DESIGNER.			
	PITCH DIRECTION	P	ANEL LAY	′OUT			
-		· · ·					
			PV-2	2			



- SECOND SOURCE IS PV SYSTEM.
- (B) WARNING INVERTER OUTPUT CONNECTION.
- DO NOT RELOCATE THIS OVERCURRENT BACKFED DEVICE

IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UN-GROUNDED AND ENERGIZED.

			1								1				
1.4	Viro Tog	re Tag Conduit Wire Q	Wire Otv	re Qty Wire Gauge	ge Wire Type	Temp. Rating	Wire Ampacity	Temp.	Conduit Fill	Derated	Inverter	NOC (A)	NEC	Design	
Ľ	vile lag		whethe				(A)	Derate	Derate	Ampacity (A)	Qty	NOC (A)	Correction	Current (A)	
	1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	13	1.21	1.25	19.66	
	2A	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.8	30.72	13	1.21	1.25	19.66	
	2B	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.8	30.72	12	1.21	1.25	18.15	
	2C	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	0.8	30.72	10	1.21	1.25	15.13	
	3	3/4" PVC	3+G	06 AWG	THWN-2	75°C	65	0.96	1	62.40	35	1.21	1.25	52.94	
	4	3/4" PVC	3+G	06 AWG	THWN-2	75°C	65	0.96	1	62.40	35	1.21	1.25	52.94	
N	NOTE: LETTER "G" IN WIRE QTY TAB STANDS FOR GROUNDING CONDUCTOR.														

		-				
		3096 HAM DANIEL W. DU LICENSE # AII (908) 872-366 370 BURNT HII SKILLMAN, NJ ENGINEERING AND LOAD CAI ATTACHMENTS COMPLIANCE. ANY PERSON, LICENSED ARC	SOLAR COM SOLAR LLC D.B.A. ILTON BLVD, SOUTH (732) 902-62 MOMENTUMSOLA STRUCTU ENGLAR 4 L ROAD 00558 LETTER ATTACHED HAS S CULATIONS FOR SOLAR I TO MEET LOCAL AND ST/ WARNING THAT IT IS A VI UNLESS ACTING UNDERT HITECT, TO ALTER AN ITE ELECTING UNDERT HITECT, TO ALTER AN ITE ELECTING UNDERT HITECT, TO ALTER AN ITE ELECTING UNDERT	A. MOMENTUM SOLAR PLAINFIELD, NJ 07080 224 R.COM JRAL RING PECIFICATIONS FOR WIND NSTALLATION SPANS & ATE BUILDING CODE IOLATION OF THE LAW FOR HE DIRECTION OF A M IN ANY WAY. CIAN		
SYSTEM C 47(A) IN TH OPEN POS	ID ASSOCIATED PERATING AT THE AC BITION IN THIS		CUSTON			
HALL COM 30.86(6)	PLY WITH	INFORMATION				
T PROTEC			JORGE PEN	Α		
D WITHIN 1	0FT OF THE		800-06 CENTRA	LAVE		
AZARD.		┨────	PLAINFIELD, NJ 917731772			
STEM ARE		SYSTEM SIZ 35 MODUL	<b>PV SYS</b> <b>INFORMA</b> 2E (DC): 12.775 KW ES: HANWHA Q.PEA BOR MODULES: 0)			
Ground	Ground Wire	35 INVERT	ERS: ENPHASE IQ7P	LUS-72-2-US		
Ground Size	Ground Wire Type					
08 AWG	THWN-2	<b></b>				
08 AWG	THWN-2		DATE: 8/4/2022			
08 AWG	THWN-2 THWN-2	REV:	DATE:	DESIGNER:		
		REV:	DATE:	DESIGNER:		
08 AWG	THWN-2					
08 AWG	THWN-2					
08 AWG	THWN-2	-	PV-	3		
				-		

TAG	LABEL	QUANTITY	LOCATION	NOTE	EXAMPLES
(A)	CAUTION: AC SOLAR VOLTAGE	12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS <u>OR</u> NO MORE THAN 10'	
B	<b>! WARNING</b> 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	PV SYSTEM AC DISCONNECTRATED AC OUTPUT CURRENT42.35ANOMINAL OPERATING AC VOLTAGE240 VCAUCTIONCAUCTIONPOWER TO THIS SERVICE IS SALSO SUPPLIED FROM ON-SITE SOLAR GENERATION1000 SHUTDOWN SWITCH FOR SOLAR PV SYSTEM	1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL	
Ē	PV METER	1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD	A DAVIE Hereitarian Hereitari
Ē	DUAL POWER SOURCE       REVENUE METER         DUAL POWER SOURCE IS       PHOTOVOLTAIC SYSTEM	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD	
6	SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION OS HUTDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING	DUAL POLICIE SUPPLY MARGEN UNER SUPPLY MARGE
	WARNING: INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE	1	BACKFEED PANEL	INTERCONNECTION POINT AND ONE DIRECTORY PLACARD	
Ĥ	NOMINAL OPERATING AC VOLTAGE : 240V NOMINAL OPERATING AC FREQUENCY : 60HZ MAXIMUM AC POWER : 230VA MAXIMUM AC CURRENT : 42,35A MAXIMUM OVERCURRENT DEVICE RATING FOR AC MODULE PROTECTION : 20A	1	AC CURRENT PV MODULES		© BACKFEED

