


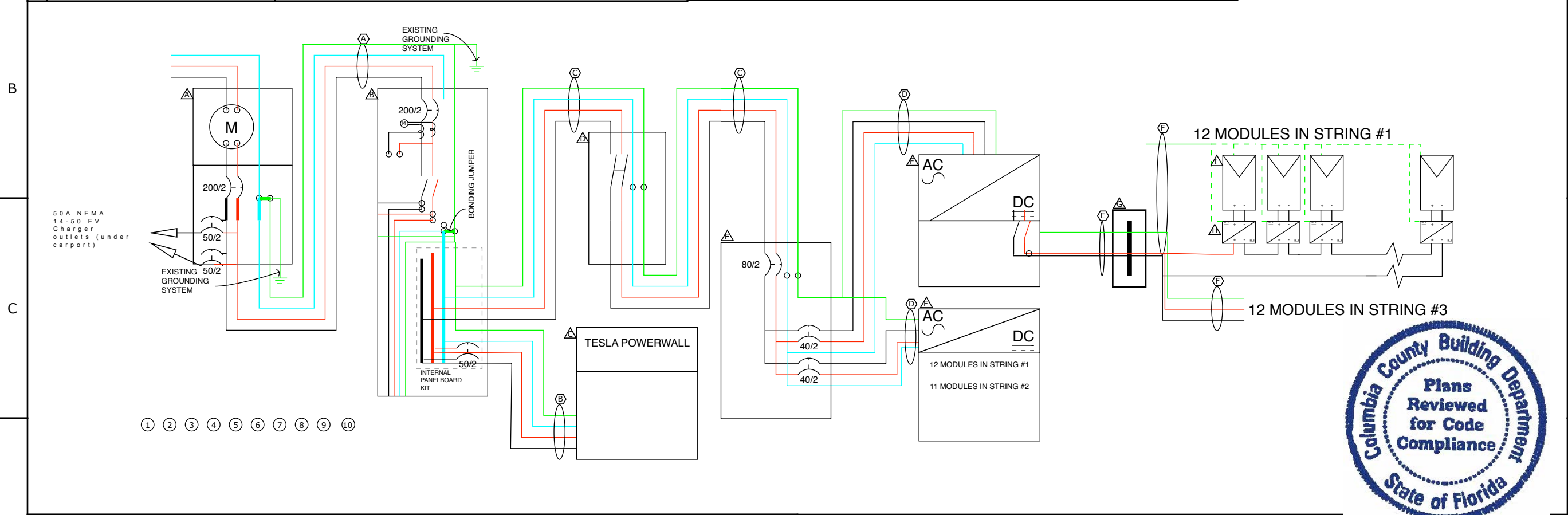


	1	2	3	4	5	6	7
	EQUIPMENT SCHEDULE 			CONDUCTOR SIZES 		FIELD APPLIED PLACARDS 	
	TYPE	DESCRIPTION				1	SEE PLACARDS PAGE FOR DETAILS
A	A	METER MAIN	(E) METER MAIN 200A MAIN BREAKER : 200A	A	(1 SET) 2X #3/0 CU + 1X #2/0 CU NTRL + 1X #6 CU GRD IN 2" EMT	<p>*Note: NEC 705.95(B) says "Neutral Conductor for Instrumentation, Voltage Detection or Phase Detection. A conductor used solely for instrumentation, voltage detection, or phase detection and connected to a single-phase or 3-phase utility-interactive inverter, shall be permitted to be sized at less than the ampacity of the other current-carrying conductors and shall be sized equal to or larger than the equipment grounding conductor."</p>	
	B	TRANSFER SWITCH	(N) TESLA GATEWAY 2 MAIN BREAKER: 200A	B	(1 SET) 2X #10 CU + 1X #10 CU NTRL + 1X #10 CU GRD IN 1/2" EMT		
	C	BATTERY	(N) TESLA POWERWALL 2				
	D	SOLAR DISCONNECT	(N) NON FUSED DISCONNECT	C	(1 SET) 2X #1 CU + 1X #1 CU NTRL + 1X #6 CU GRD IN 1.25" EMT		
	E	SOLAR PANELBOARD	(N) PANELBOARD 100A MAIN BREAKER : 80A (BACKFED)				
	F	INVERTER	(N) SMA SB 7.7-US	D	(1 SET) 2X #8 CU + 1X #8 CU NTRL + 1X #10 CU GRD IN 0.75" EMT		
	G	ROOF PENETRATION	(N) SOLADECK ROOF MOUNTED JUNCTION BOX (GENERIC)	E	(1 SET) 2X #10 CU + 1X #10 CU GRD IN 0.75" EMT		
	H	RAPID SHUTDOWN DEVICE	(N) SMA JMS-F SUNSPEC RAPID SHUTDOWN DEVICE				
	I	MODULE	(N) Q CELLS Q.PEAK DUO XL-G10.3/BFG 485	F	(1 SET) 4X #10 CU + 1X #4 CU GRD IN FREE AIR		



SOLAR SCHEDULE						
INVERTER	MODEL	FUSE	STRING # 1		STRING # 2	
			RSD	STRING	RSD	STRING
1	SMA SB 7.7-US	40	12	12	12	12
2	SMA SB 7.7-US	40	12	12	11	11

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 JUNCTION BOXES, 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 ILSKO GBL-4DBT LAY-IN LUG.

10.) THE POLARITY OF THE GROUNDED CONDUCTORS IS NEGATIVE

ADDITIONAL NOTES:

1. EACH MODULE TO BE GROUNDED USING THE SUPPLIED CONNECTION POINT PER MANUFACTURER'S REQUIREMENTS. ALL SOLAR MODULES, EQUIPMENT, AND METALLIC COMPONENTS ARE TO BE BONDED. IF THE EXISTING GROUNDING ELECTRODE SYSTEM CAN NOT BE VERIFIED OR IS ONLY METALLIC WATER PIPING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL A SUPPLEMENTAL GROUNDING ELECTRODE.

2. ALL PLAQUES AND SIGNAGE REQUIRED BY THE LATEST EDITION OF NATIONAL ELECTRICAL CODE. LABEL SHALL BE METALLIC OR PLASTIC, ENGRAVED OR MACHINE PRINTED IN A CONTRASTING COLOR TO THE PLAQUE. PLAQUE SHALL BE UV RESISTANT IF EXPOSED TO SUNLIGHT.

3. DC CONDUCTORS SHALL BE RUN IN EMT AND SHALL BE LABELED, "CAUTION DC CIRCUIT" OR EQUIV. EVERY 5 FT.

4. EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136(A).


5. CONFIRM LINE SIDE VOLTAGE AT ELECTRIC UTILITY SERVICE PRIOR TO CONNECTING INVERTER. VERIFY SERVICE VOLTAGE IS WITHIN INVERTER VOLTAGE OPERATIONAL RANGE.

6. OUTDOOR EQUIPMENT SHALL BE NEMA-3R RATED OR BETTER.

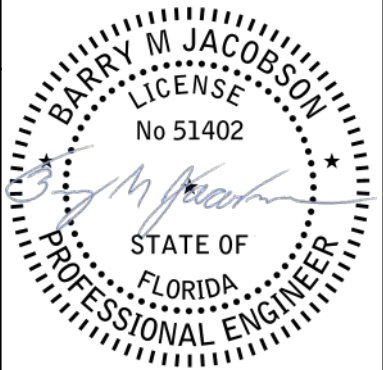
7. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.

8. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE, AND FOR ROOF-MOUNTED SYSTEMS, WIRING MUST BE PERMANENTLY AND COMPLETELY HELP OFF OF THE ROOF SURFACE. NEC 110.2 - 110.4 / 300.4

Designed By:



4509 NW 23rd Ave.
Suite.20
Gainesville, FL 32606
www.solarimpact.com
352.338.8221



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