

**30 YING-LI YL175(156) 175W PV MODULES
5.250kW DC RATING @ STC**

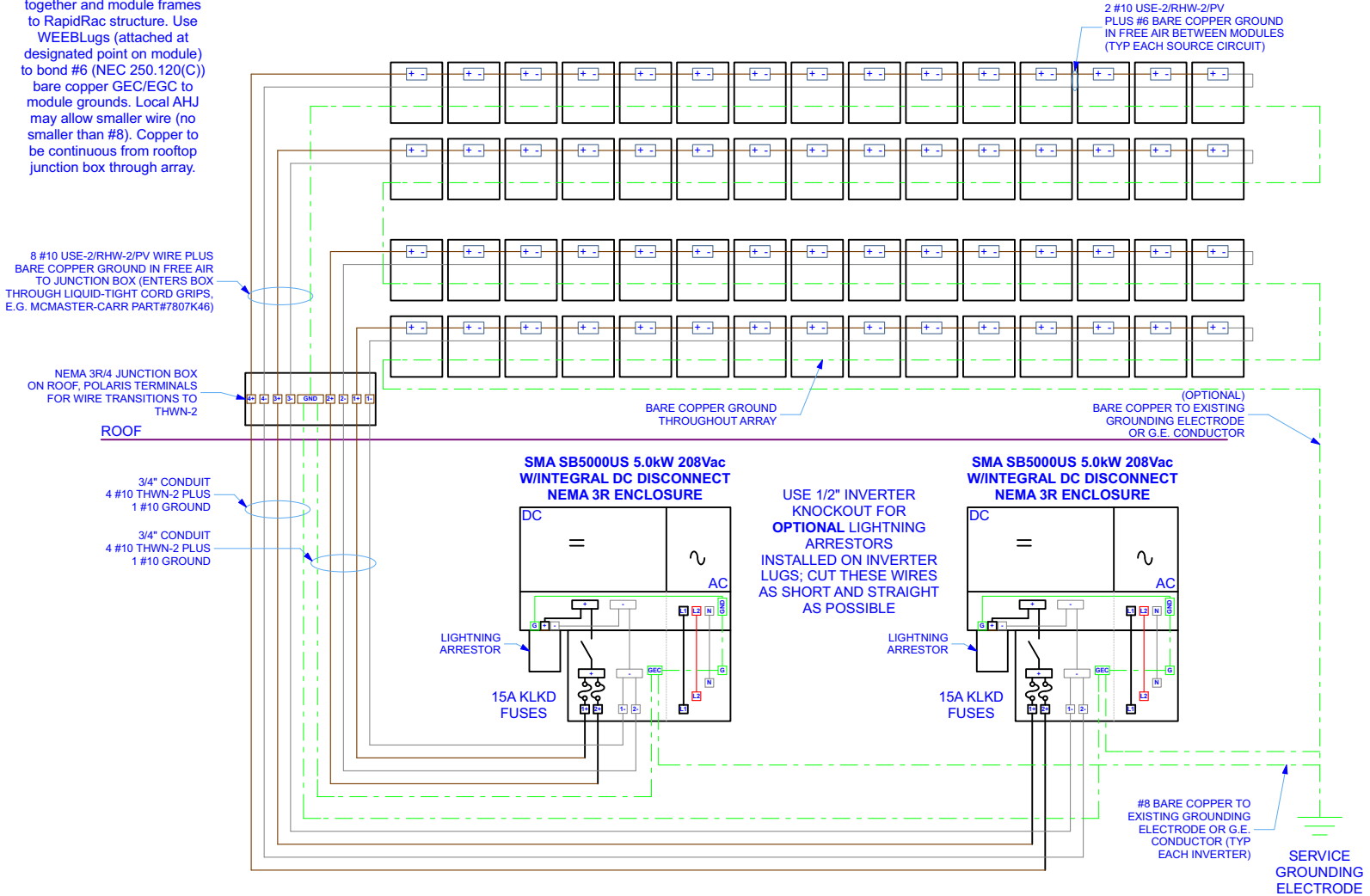
MODULE GROUNDING:
Use WEEB-9.5 grounding clips to bond Unirac RapidRac system pieces together and module frames to RapidRac structure. Use WEEBLugs (attached at designated point on module) to bond #6 (NEC 250.120(C)) bare copper GEC/EGC to module grounds. Local AHJ may allow smaller wire (no smaller than #8). Copper to be continuous from rooftop junction box through array.

MODULE SPEC:
Voc = 29.5 Vdc
Vmp = 23.5 Vdc
Imp = 7.6 Adc
Isc = 8.2 Adc
Max Series Fuse = 15Adc

Isc x 1.25 = 10.25 Adc
Isc x 1.56 = 12.81 Adc
Series Fuse = 15Adc

FOR EACH INVERTER:
2 SOURCE CIRCUITS OF 15 MODULES EACH

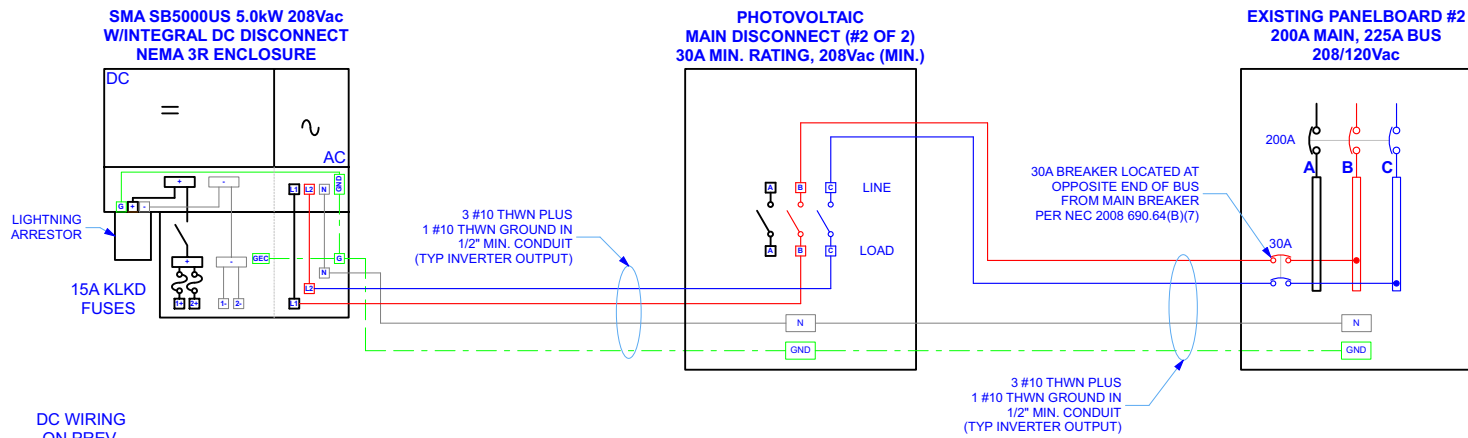
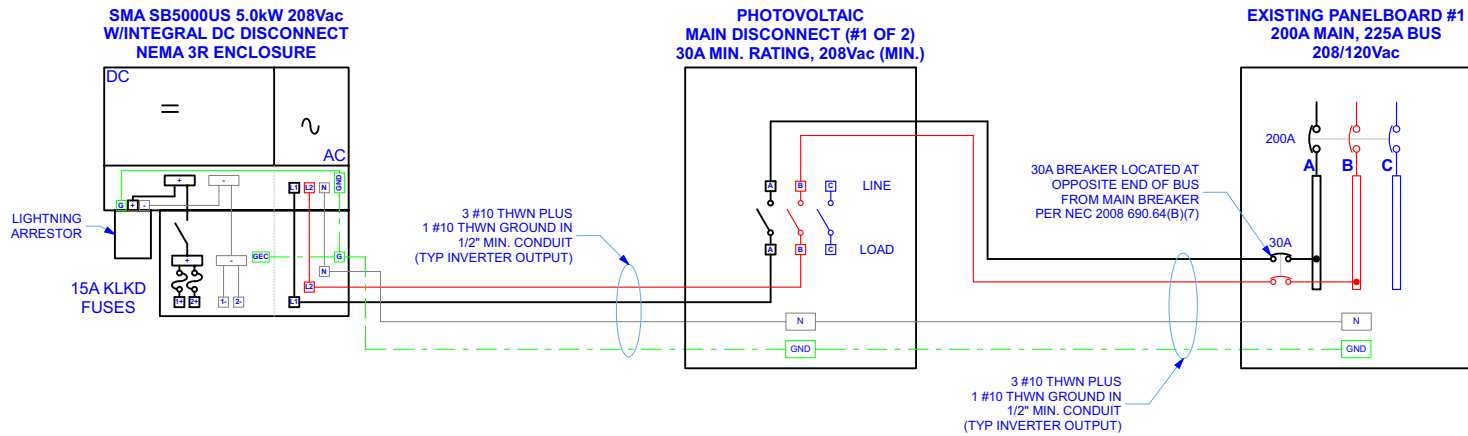
SOURCE CIRCUIT MEASUREMENTS:
MAX Voc per temp. coeff. calc. (0.37%/degC) = **487Vdc**
Vmp @ STC = 15 x 23.5 = **352.5Vdc**
Imp @ STC = **7.6Adc**
Isc @ STC = **8.2Adc**



WIRE SIZES:

LOCATION	MIN. WIRE SIZE	310.16/17 AMPACITY	TEMP CORR.	COND. FILL	AMPACITY	MIN. REQ'D AMPACITY
ARRAY WIRING	#10 USE-2/RHW-2/PV	55A (FREE AIR)	65C -> 0.58	1.0	31.9A	15A
ARRAY HOMERUN	#10 USE-2/PV/THWN-2	35A (CONDUIT)	50C -> 0.75	0.8	21.0A	15A
INVERTER OUTPUT	#10 THWN	35A (CONDUIT)	40C -> 0.88	1.0	30.8A	(5000W/208V)*1.25=30A (30A 2P BREAKER)

AC WIRING
ON NEXT
DRAWING



DC WIRING
ON PREV.
DRAWING