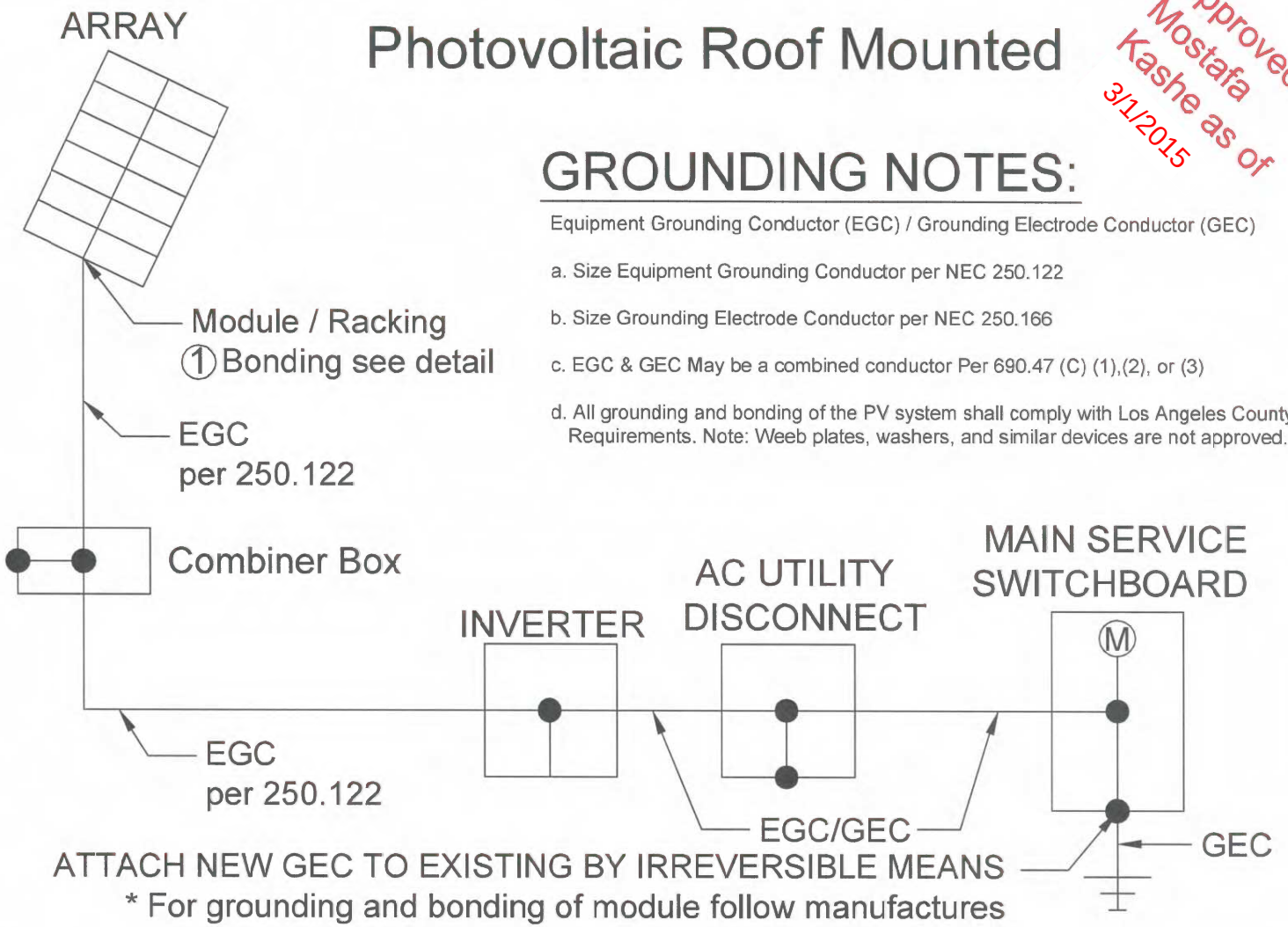
Photovoltaic Roof Mounted

Approved by Mostafa Kashe as of 3/1/2015



GROUNDING NOTES:

Equipment Grounding Conductor (EGC) / Grounding Electrode Conductor (GEC)

a. Size Equipment Grounding Conductor per NEC 250.122

b. Size Grounding Electrode Conductor per NEC 250.166

c. EGC & GEC May be a combined conductor Per 690.47 (C) (1),(2), or (3)

d. All grounding and bonding of the PV system shall comply with Los Angeles County Requirements. Note: Weeb plates, washers, and similar devices are not approved.

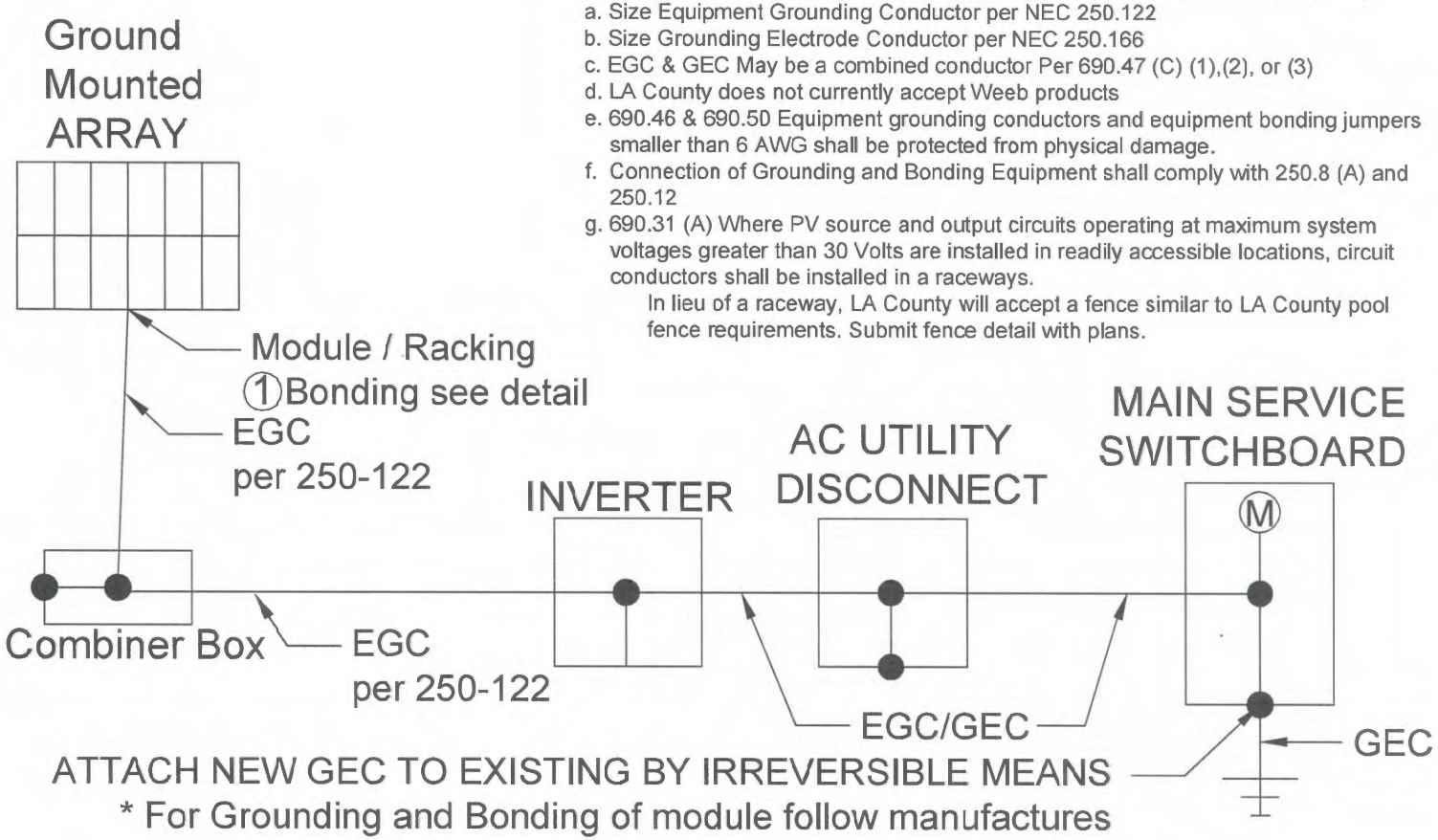
SCHEMATIC GROUNDING DETAIL LA COUNTY

Photovoltaic Ground Mount

GROUNDING NOTES:

Equipment Grounding Conductor (EGC) / Grounding Electrode Conductor (GEC)

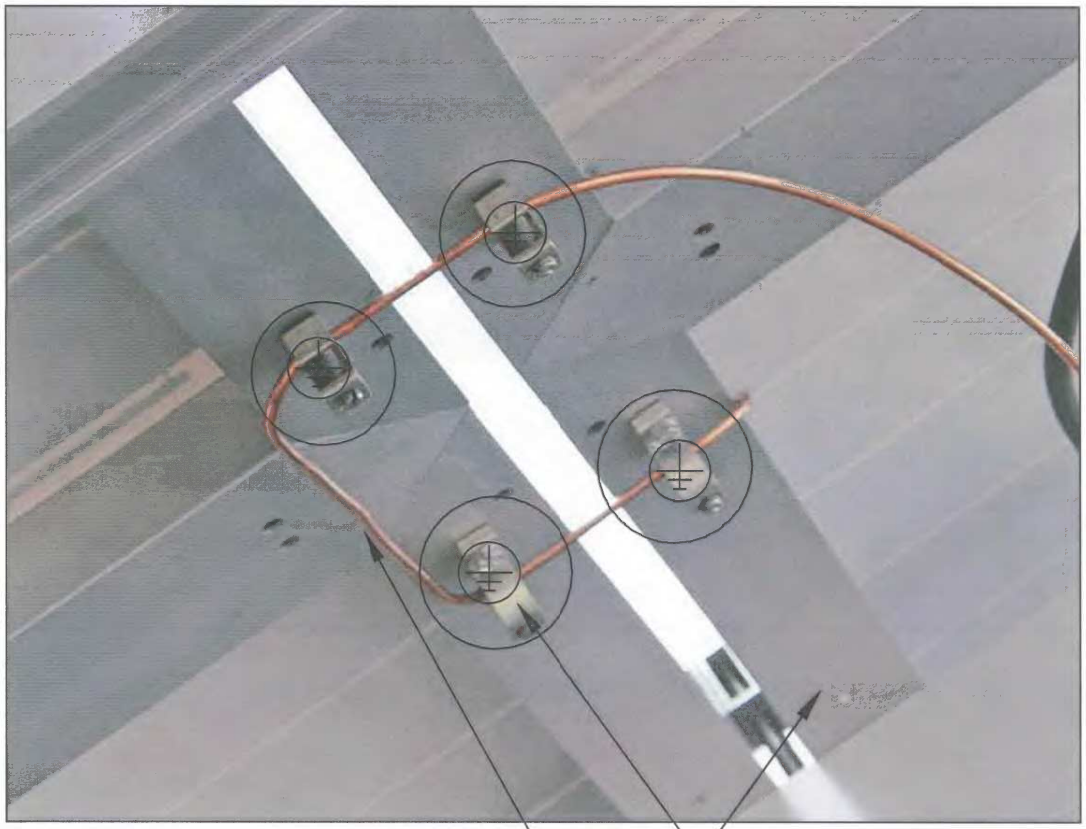
a. Size Equipment Grounding Conductor per NEC 250.122
b. Size Grounding Electrode Conductor per NEC 250.166
c. EGC & GEC May be a combined conductor Per 690.47 (C) (1),(2), or (3)
d. LA County does not currently accept Weeb products
e. 690.46 & 690.50 Equipment grounding conductors and equipment bonding jumpers smaller than 6 AWG shall be protected from physical damage.
f. Connection of Grounding and Bonding Equipment shall comply with 250.8 (A) and 250.12
g. 690.31 (A) Where PV source and output circuits operating at maximum system voltages greater than 30 Volts are installed in readily accessible locations, circuit conductors shall be installed in a raceways.
   In lieu of a raceway, LA County will accept a fence similar to LA County pool fence requirements. Submit fence detail with plans.



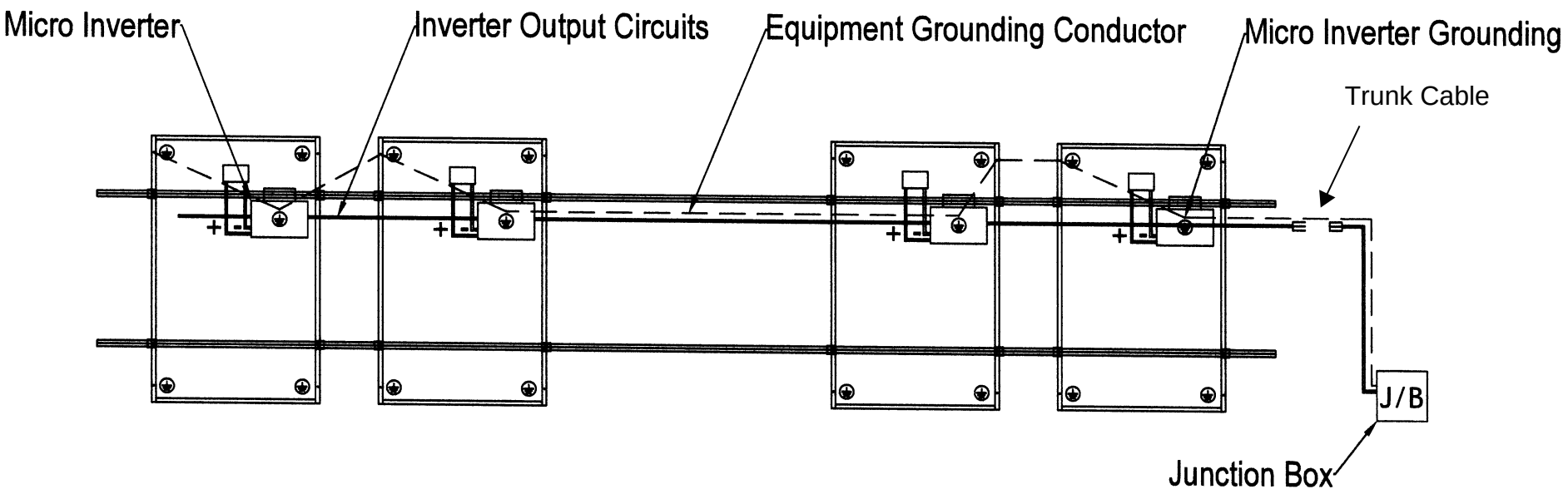
* For Grounding and Bonding of module follow manufactures installation instructions per listing & NEC 110.3

SCHEMATIC GROUNDING DETAIL LA COUNTY

Photovoltaic under panel
Bonding 4 Modules
Exhibit A



Micro Inverter Installation



Notes

1. Grounding electrode conductor shall be minimum 6 AWG for a grounded micro inverter system.
2. An isolated system shall not require a grounding electrode conductor.

*For Grounding and Bonding of module, follow the manufactures installation instructions per listing & NEC 110.3 (B)

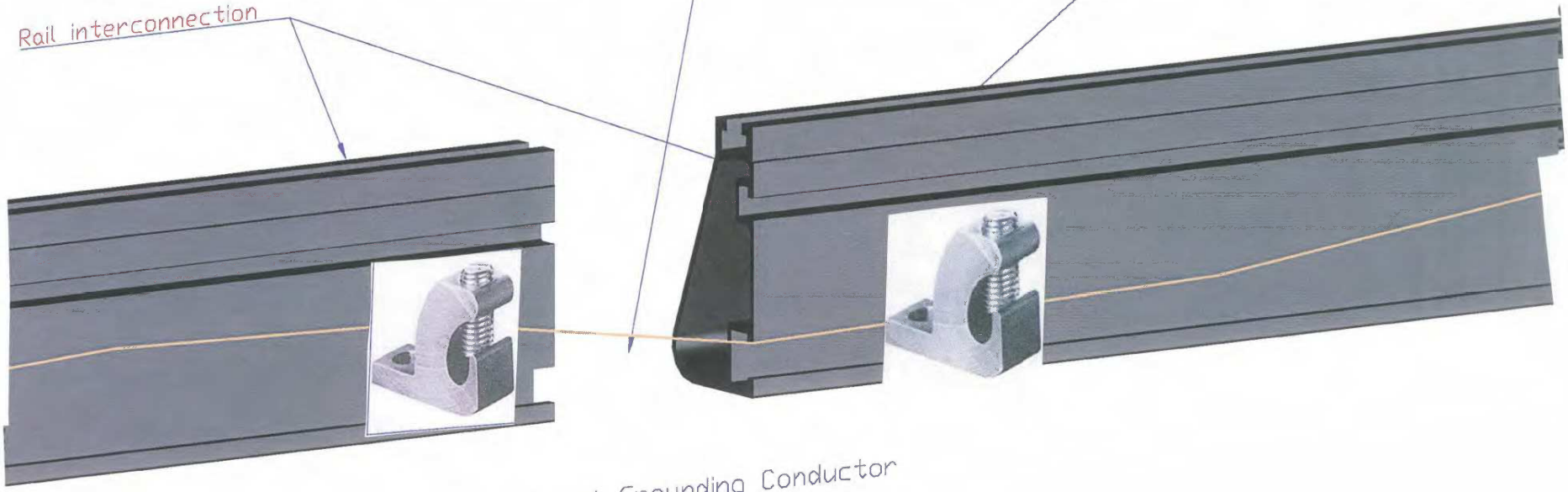
Exhibit B:
Rail interconnection

LA County Does not accept WEEB

Bonding Jumper

Photovoltaic Racking system

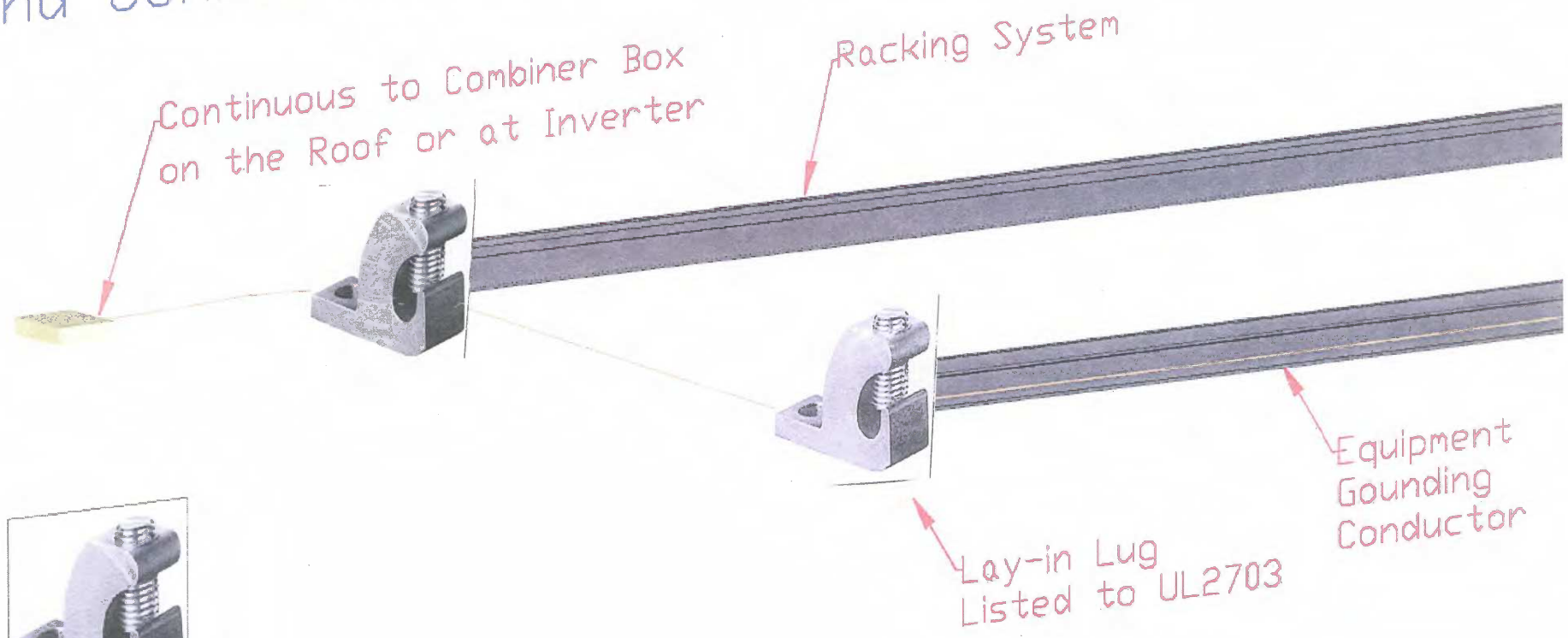
Rail interconnection



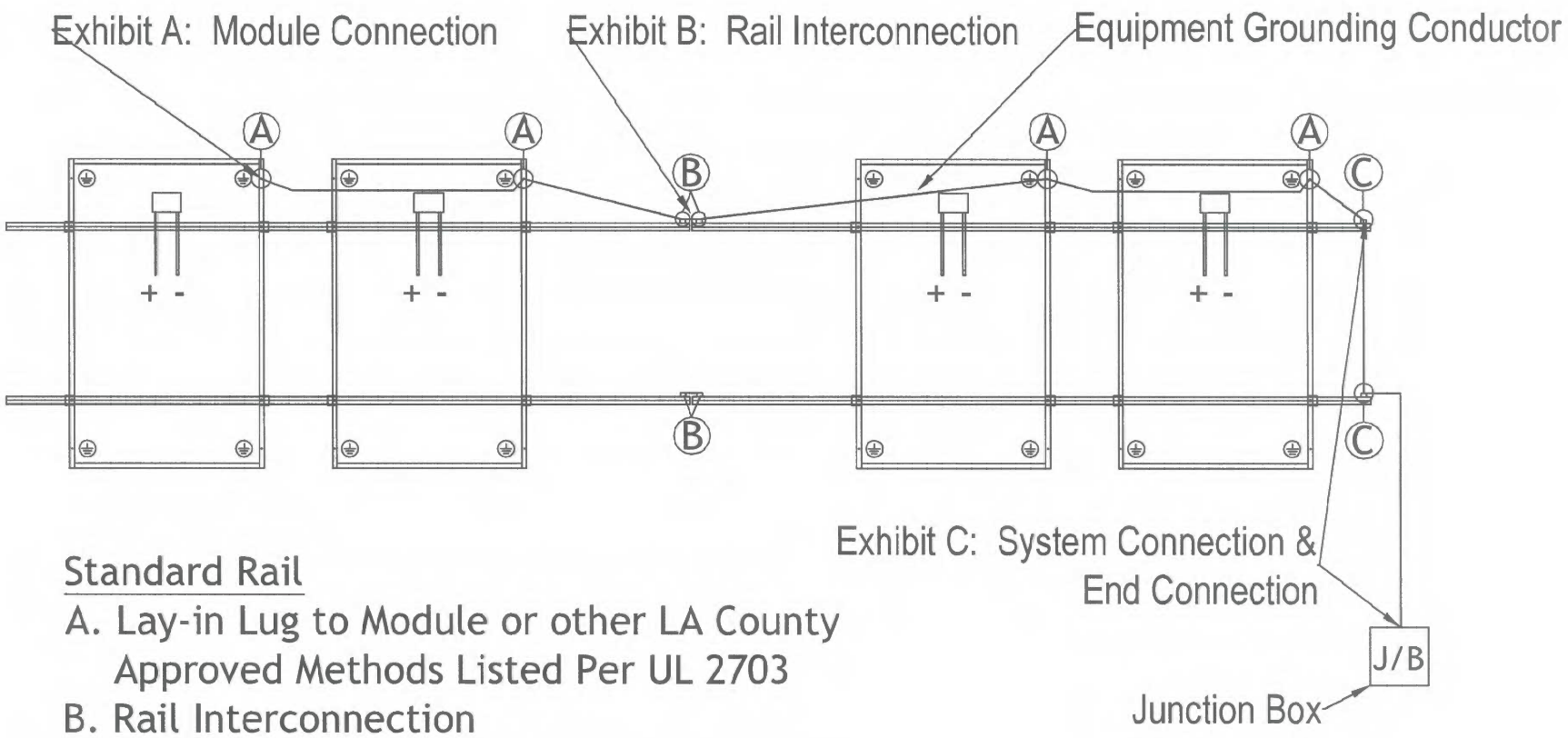
Equipment Grounding Conductor

Lay-in Lug Listed to UL 2703

Exhibit C: System Connection (Rack to Rack) & End Connection (Combiner Box / Junction Box)



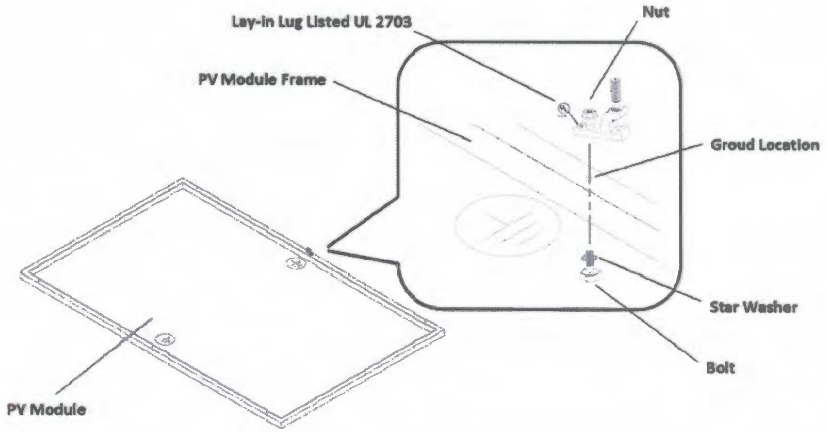
① Photovoltaic Array



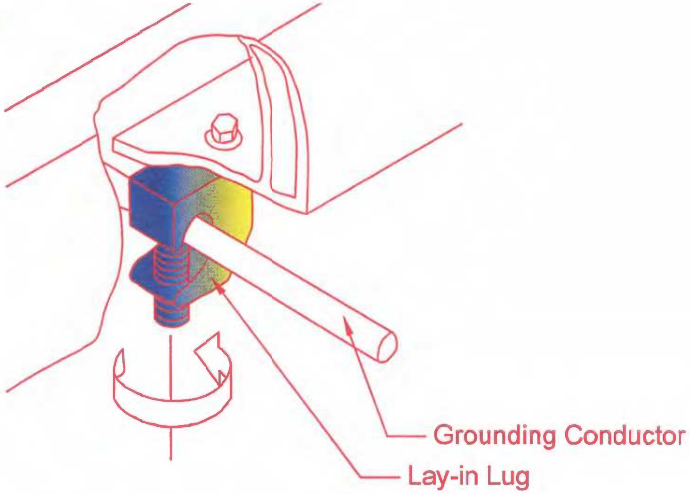
Standard Rail

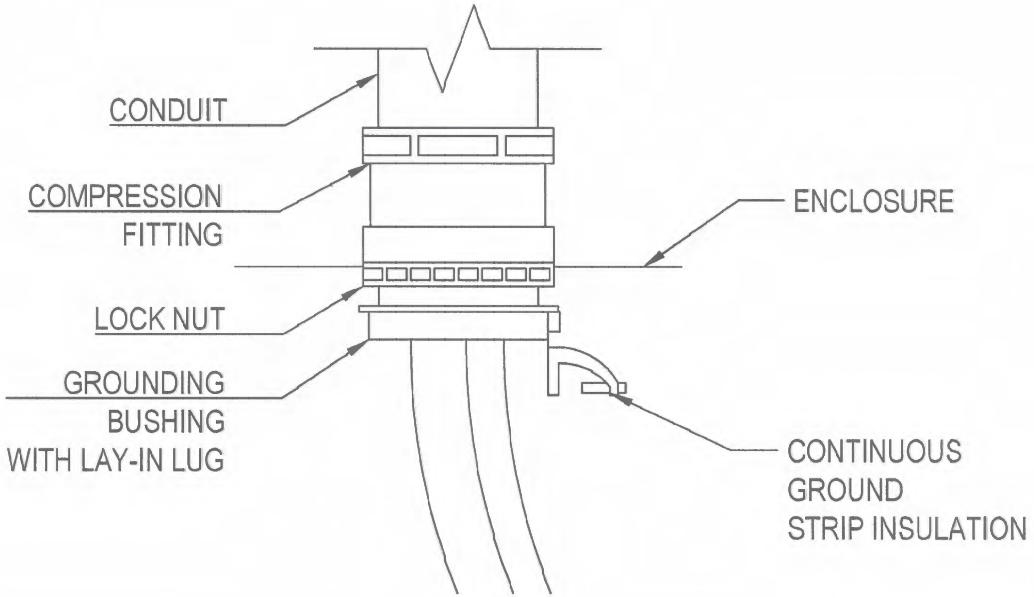
A. Lay-in Lug to Module or other LA County Approved Methods Listed Per UL 2703
B. Rail Interconnection
C. System & End Connection
D. Equipment Grounding Conductor Shall Be Minimum 6 AWG Per NEC 250.120(C)

1) Attach lay-in lugs (listed per 2703) onto all your modules in the specified grounding holes. Note:It is necessary to attach 1 lay-in lug per module and best to do this before you start installation for more efficiency.
*Anti-oxidation required unless otherwise listed in report



2) Run a grounding wire through all the lay-in lugs and ground the system. Note: Refer to your PV module installation manual for the type of fasteners, ground wire size, positioning of ground hole, and general information on grounding your system.





CONDUIT GROUNDING DETAIL

CIRCUITS MORE THAN 250V TO GROUND MUST HAVE GROUNDING BUSHING PER NEC 250.97