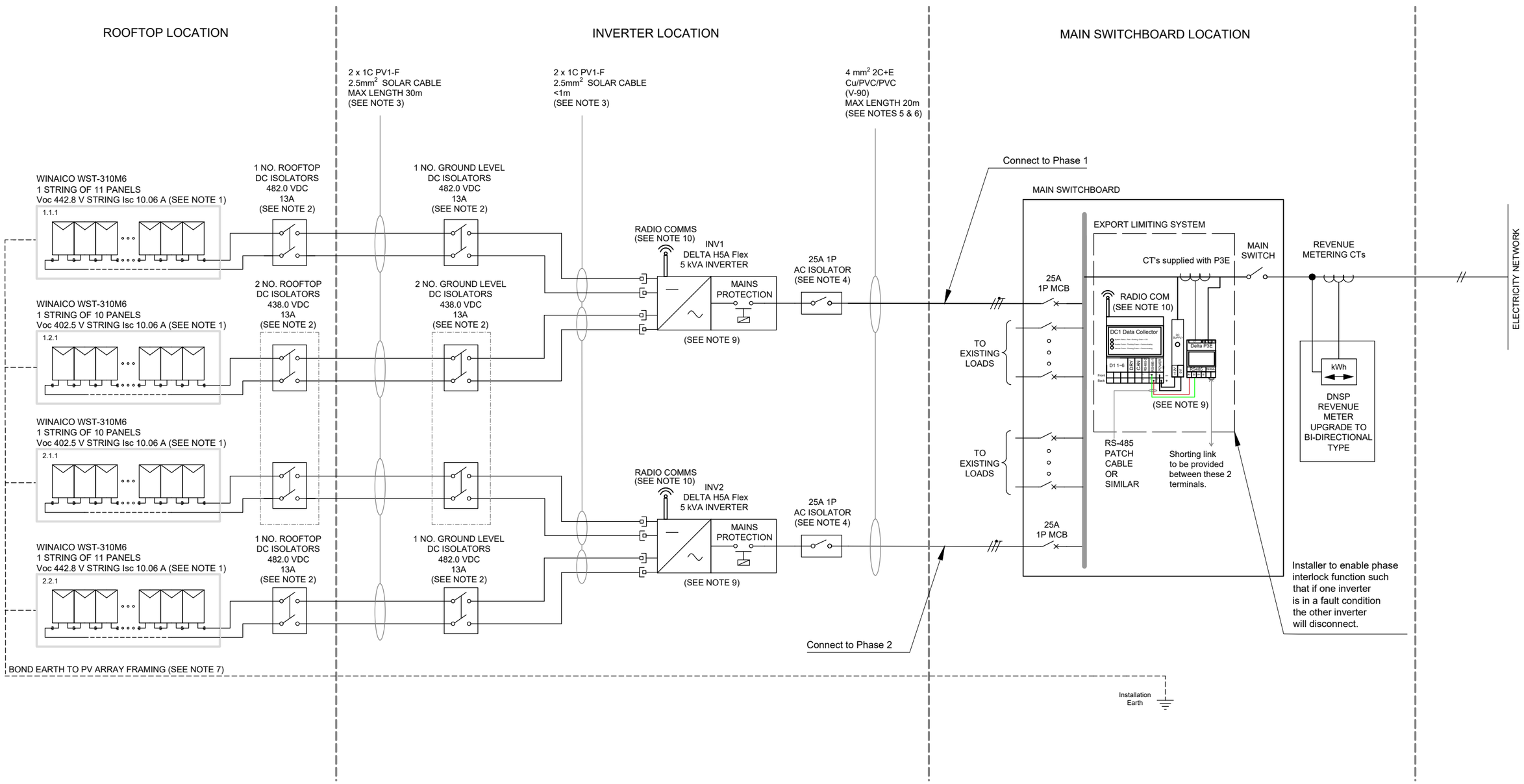

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CLIENT:

PROJECT NAME:
Winaico PV system designs

ADDRESS:

SCALE:
NTS

DRAWING TITLE:
PV Electrical Schematic
2xH5A-Flex-13 kWp WINAICO 310Wp

PAGE SIZE:
A3

DRAWING NUMBER:
WINAICO-2xH5A-13-A1

SHEET
1 of 1

NOTES:

1. The PV array maximum voltage and Is/c shown have been calculated based on an assumed minimum temperature of -5 degrees and the temperature coefficient on the datasheet. These values are temperature dependant and should be calculated for each individual system.
2. The voltage ratings of the DC and ground level DC isolators have been calculated based in the conditions mentioned in note 1 and should be calculated for each individual system.
   Ensure that DC isolators comply with AS/NZS5033 2014 appendix 5B.
3. DC cabling has been sized based on an installation method of "enclosed touching" and has allowed for a 15m cable run from the roof level DC isolator to the furthest panel. If the actual installation does not meet these requirements, cables should be resized.
4. AC isolators can be omitted if the inverters are located within line of sight and a distance no more than 3m away from the switchboard to which they are connected.
5. The maximum length shown allows for 2% voltage rise between the inverter terminals and the main switchboard, this does not guarantee compliance with all required regulations with regard to voltage rise. The actual location of the point of connection will vary depending the area and supply arrangement. It is the responsibility of the installer to verify compliance of each individual installation with Australian standards, DNSP's and Local Authority Guidelines.
6. The installation method of this cable has been assumed to be "enclosed touching". If actual installation method is different, cable should be resized to suit.
7. Bond earthing to array framing and use Weeb washers between panels and framing. Framing should be bonded so that continuity is maintained even with the removal of a PV module.
8. All work shall be in accordance with AS/NZS3000 2018, AS/NZS3008.1.1 2017, AS/NZS4777.1 2016, AS/NZS4777.2 2015 and AS/NZS5033 2014
9. Inverters to be export limited to ensure that no more than 5KVA can be exported to the grid. Installer to commission DC1 Data Collector + Inverters to ensure that this is the case. DC1 Data Collector can be powered by a 9-24V DC supply or a 5V micro USB cable.
10. DC1 Data Collector and INV1 +INV2 communicate via radio in order to achieve export control and interlock requirements. If for any reason this radio link is interrupted, INV1 & INV2 will reduce their output to zero in compliance with section AS4777.1 2016 3.4.8.3(c) and the interlock requirement.

REVISION REGISTER:

REV	NOTE	DRWN	CHCKD	DATE
A1	For Approval	GZ	RM	20/06/19