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10 August 2021

Richard Crooks Construction
Level 3/4 Broadcast Way
ARTARMON NSW 2000

Attention: Mr. D. Vidovic

Dear Daniel,

RE: EPPS – PV Solar Provision

JOB NO: 201104

This memo reviews the current PV solar design, with regards to EFSG compliance.

System Summary:

The proposed system design is a 70kW system installed on the roof of the Eastern Building. Panels to be angled north, with a 10 degree's tilt as per EFSG requirements.

EFSG requirements:

Table 1 shows the EFSG requirement for the EPPS School showing a 70kW PV system is required:

66.3.1 System Size

For a new school provide the system size as tabled below:

<u>Primary School</u>	<u>Secondary School</u>	<u>SSP</u>
Up to 7 core - 10 kW system	Up to 4 stream - 70 kW system	No hydrotherapy pool - 20 kW system
14 core - 25 kW system	7 stream - 90 kW system	Hydrotherapy pool onsite - 45 kW system
21 core - 40 kW system	9 stream and above - 99 kW system	
28 core - 60 kW system		
35 core- 70 kW system		

Table 1 – Extract from EFSG DG 66.3.1 PV size requirements.

PV panel location and layout:

Figure 1 shows the location of the PV system overall, on the Northern end of the eastern building, and figure 2 shows the panel arrangement with the panels angled north at 10 degree tilt.

This roof location was optimal as it could accommodate the full system in one location, with no shadowing and all panels can angle north.

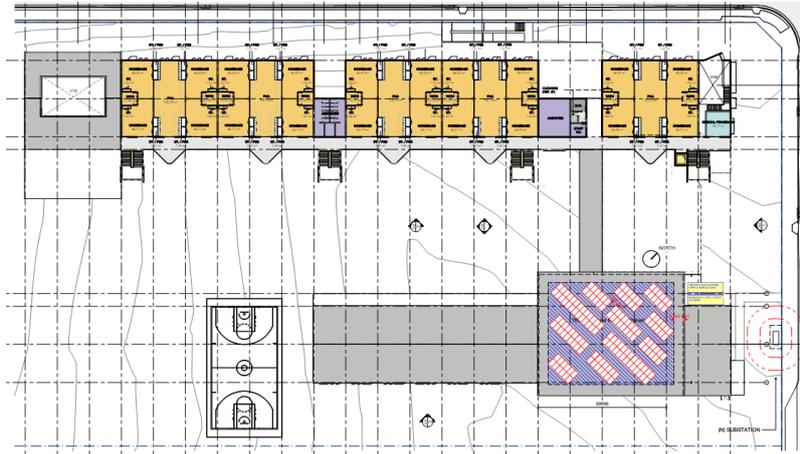


Figure 1 – PV System location

Figure 2 shows there is clear maintenance zones around the panels as well as a 2500mm clearance from the edge of the building for safety.

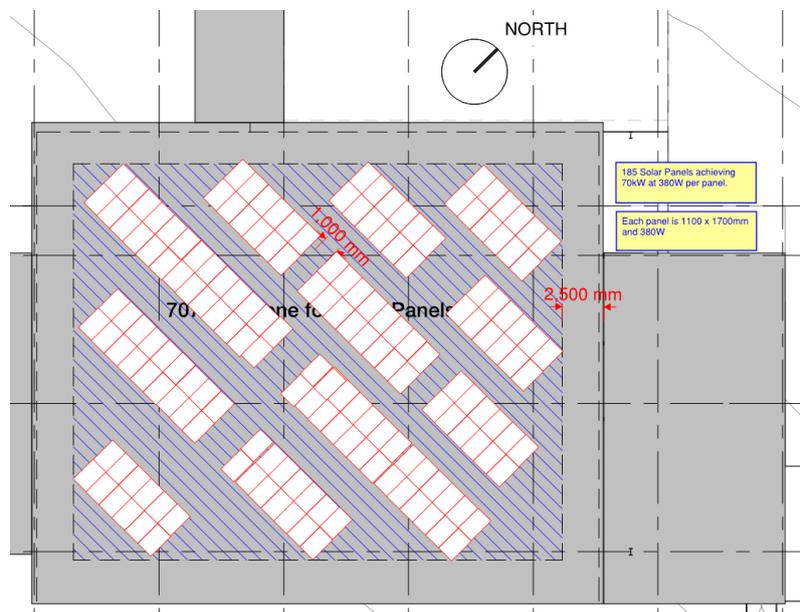


Figure 2 – PV Panel Layout

Yours sincerely,

John Stefani

Associate Electrical Engineer