

<b>To</b>	JBA Planning	<b>Date</b>	16 November 2010
<b>Attention</b>	Oliver Klein	<b>Facsimile</b>	
<b>From</b>	Katie Fallowfield	<b>Project No</b>	SYD1014800
<b>Project</b>	Nepean MHU	<b>No. of pages</b>	1
<b>Subject</b>	ESD Status – Schematic Design	<b>Copies</b>	Paul Edmiston, Tracy Lord, Kieron Smith, Greg Harper

Dear Oliver,

During the planning stage for the Nepean Mental Health Unit, the project team decided upon a ESD strategy for the building which would enable the project to attempt a 4 star, uncertified Green Star Rating for Health Care as well as meet the requirements of Section J of the BCA. This strategy was based upon ESD initiatives to be included in the design of the building in various areas:

- Architectural design promoting passive elements such as shading, solar access, insulation and thermal mass;
- Efficient selection of plant and equipment in the mechanical ventilation design;
- Selection of energy efficient lighting, and integration with controls such as occupancy and daylight sensors;
- Water efficient fixtures and fittings and reuse of rainwater for irrigation and toilet flushing;
- Transport initiatives such as external car parks to reduce lighting and ventilation, provision of minimal car parking, bicycle racks and showering facilities; and
- Careful materials selection to improve indoor environment quality, reduce resource consumption and promote sustainable sources.

Through the schematic design stage we have developed this strategy by identifying design opportunities which complemented the points targeted.

Energy modelling has also been conducted to establish compliance with BCA section J requirements and to identify design strategies which will promote comfortable conditions in the spaces.

At this stage, advice has been given which will enhance the building's ability to pass the minimum requirements of BCA Section J. At the completion of the Design Development Stage, a report will be issued which summarises the Section J compliance based on the final design of the building.

If you have any questions regarding the above ESD update, please feel free to contact me.

Regards

Katie Fallowfield

Environmental Design Consultant