

15 October 2020

NL200698

Stanton Dahl Architects
Peter Rogers
PO Box 833
Epping NSW 1710

Dear Peter,

Re: Richard Gill School, Muswellbrook – Sustainability

The existing building has numerous energy efficiency measures built into the original design. This includes items such as:

Reduced glazing along the western façade to reduce heat from hot afternoon sunlight through summer

carefully considered shading to reduce heat associated with direct sunlight through warmer months, modulating outside air dampers on existing air conditioning to allow free cooling and improved indoor air quality.

For the works being proposed in modifying the existing council building to be appropriate for its new use as a school we have looked to minimise wastage by reusing materials and plant where possible. This will reduce materials going to landfill as well as reducing the carbon content associated with manufacturing new replacement materials/equipment. Some examples of this include the following:

- Existing building envelope remains unchanged
- All existing air conditioning reused with some minor modifications to suit the new internal layouts
- Minimal hydraulic changes proposed, retaining existing toilet areas unchanged (some minor changes required for fire safety)
- Electrical services in most areas remain unchanged.

The main area of change from an electrical perspective is to accommodate the new classroom and comms areas. To suit the new internal partitions/layouts significant changes were required to the lighting in these areas. We took this opportunity to design new highly efficient LED lighting to serve these areas. This will lead to a substantial reduction in the lighting energy, though will also reduce the heat in these areas reducing the air conditioning energy associated with cooling these rooms.

Yours sincerely,



Lincoln Hill

Principal | Newcastle Building Services Manager
BEng MIEAust CPEng

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Prepared by	LH	15/10/2020

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