HYDRAULIC INFRASTRUCTURE AND DESIGN STRATEGY

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POTABLE COLD WATER RETICULATION

- The existing potable cold water property services and boundary main meter assembly is to remain in its current location in the northern corner of the site.
- The existing potable cold water pipelines nominated to be disconnected are to become redundant, be capped at their source of supply permanently and be removed from site.
- All necessary potable water connections have been designed to connect all fixtures, plant, equipment and fire hose reels.

RECLAIMED WATER RETICULATION

- The existing reclaimed water property service and meter assembly is to remain in its current location in the northern corner of the site.
- The existing reclaimed water pipeline, which will conflict with the proposed new buildings is to be made redundant and a new reclaimed water service diversion has been indicated outside of the proposed building footprint.
- All necessary reclaimed water supply connections will have been designed to supply all toilets and hose taps.

GAS SYSTEM

- The intent is for the existing 4,000l lp gas storage tank to remain in service and in its present location.
- Initially there was a concept that the lp gas storage tank could be reduced in size. However, due to the inclusion of gas heating in the proposed new hall, the existing gas system has been deemed to be sufficient and is to remain as existing.
- New gas pipelines are nominated to be installed as necessary to supply new fixtures in accordance with AS5601.1.

SANITARY DRAINAGE

- The existing sewer pump station is to remain in its present location.
- All disused sanitary drainage pipelines will be capped at their source permanently and be removed from site.
- New sanitary drainage pipelines are nominated to be installed to connect all proposed sanitary fixtures in accordance with AS3500.2-2015.
FIRE SERVICE

- The existing property service and double check assembly will remain in its current location in the northern corner of the site.
- The relocation of the schools main entry has resulted in the existing fire hydrant pump and h-pattern booster assembly no longer being compliant with AS2419. As AS2419.1-2005 states that the booster assembly must be adjacent to the principle vehicle access to the site. Therefore, we propose to relocate the existing fire hydrant pump and h-pattern booster assembly to the new main entrance of the school in the south-east corner of the site adjacent to the collector road roundabout.
- The existing fire hydrant pump is to be installed in a new ‘hunter pumps’ hydrant pump enclosure (Model AEG-DE-3-19).
- A new 100mm fire hydrant pipeline has been shown to connect from the existing double check assembly in the northern corner of the site to the relocated fire hydrant pump at the new south east entrance. The fire hydrant pipeline will then ‘back feed’ into the existing fire service via an adjacent dual pillar hydrant location.
- All disused fire hydrant pipework is to be capped permanently and be removed from site.
- Preliminary measurements indicate 3 x new fire hydrants will be required in order to provide necessary coverage to the new buildings in accordance with AS2419.1-2005.