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To: JCA Architects
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RE: TSC Proposed Renovation of Existing Stevenson Library

Subject: Existing Building Stormwater Drainage System Report Brief

1. Current system description.

Existing building stormwater runoff is collected and controlled by an existing Stormwater Inlet Pit located on the N/E corner of building at RL 54.57. Currently there are 2 of 225mm diameter stormwater pipelines that discharge into the SIP collecting storm runoff from the building roof and local pavement. The SIP discharges into an existing 225mm diameter pipeline at IV.L 53.22 that is installed across the oval terminating into an existing On Site Detention Basin control SIP located in the N/E corner of school site. The SIP is able to surcharge storm flows within the pipeline into the OSD basin when the flows exceed the outfall design flows. The SIP surface level is RL 52.04 and the outlet 225mm diameter stormwater line is at IV.L 50.81.

The OSD SIP stormwater outlet line is connected to an existing SIP located approximately 22m to the South of OSD Basin. Final discharge of collected stormwater from this SIP terminates into the Cranbrook Lane road reserve drainage system.

2. The proposed renovation works will require the following existing stormwater performance check to confirm that the existing system is able to collect and control the buildings storm runoff.
- Design analysis of renovated roof area to confirm that existing gutters and downpipes are adequate for the conveyance of storm runoff into the buildings stormwater collection system.
 - Design analysis of existing building collection stormwater pipe system to confirm adequate sizing and location of pipelines currently installed to collect and control storm runoff from roof and pavement areas.
 - Note that all new or upgraded stormwater control systems are to comply with the Australian Design Standard AS3500.3:2003.

Signed: *James Olive*

Date: 15/11/2017