

Proposed Renovation to the Stevenson Library Building
The Scots College
29-53 Victoria Rd, Bellevue Hill, NSW 2023

14 November 2017

Architect's Comment: GEOTECHNICAL INFORMATION

The aim of this introductory statement is to provide a general view of local geotechnical conditions to the proposed development works, notwithstanding that the project is a renovation of an existing structure & that no significant excavation is proposed.

The following information is drawn from recent building works, geotechnical investigations [boreholes] and anecdotal evidence from work carried out around the Oval.

Construction of the Business Studies Centre – completed 2016

Included contiguous piling & excavation of an embankment.

Boreholes indicated that the site area was largely sand with a relatively thin layer of [mixed] fill across the surface. Bedrock was apparent below the sand though fell away quite rapidly to the south of the site.

Piling was socketed into rock at the north end of the site, adjacent to the Middle School Building, but were embedded in sand to the south.

Borehole Logs prepared by Douglas Partners show weak & medium strength sandstone occurring at RL51.00 & 52.00 in a report dated August 2011 within the site area.

Proposed Additions to the MSB

An earlier report by Jeffrey & Katauskas dated April 2005 confirmed that bedrock appeared on the borehole log at approx. RL52.00 around the [future BSC] site, while the log for those further north closer to Library, including one in front of the Quadrangle, show the borehole depth terminating at RL 48.25 in sand, ie no rock.

Excavation Works on the Oval

The recent installation of an on site detention tank to the south east perimeter of the Oval saw an excavation wholly in sand approx. 4.5m deep down to RL49.50. No rock was encountered.

Earlier works to remedy stormwater system leaks suggest that the Oval is a mix of fill material & sand.

SUMMARY

While no significant excavation work is proposed in the renovation of the Stevenson Library, any service or infrastructure upgrade will require some trenching or the like.

The ground floor level slab is RL54.99 by survey.

Previous geotechnical work suggests that the existing footings are embedded within sand, the design of footings for any new work will need to adopt the same method of support & embedment.

Prepared by John Cockings, Director JCA Architects Pty. Ltd.