Civil / Stormwater Response MIXED USE DEVELOPMENT

BOARDING HOUSE / CHURCH / COMMUNITY FACILITIES 28 FISHER RD / 9 FRANCIS ST, DEE WHY, NSW MARCH, 2023



architecture modularisation project management interior design procurement

1300 799 986

335 MONA VALE ROAD TERREY HILLS NSW AUSTRALIA 2084 WWW.georgegroup.com.au

Development Engineers	
The Development Engineering Section advises as follows:	
The stormwater concept plan by the Mesh Group has been reviewed and not supported for the following reasons:	Noted, and these items are addressed with updated drawings
 The stormwater design engineer needs to be registered in accordance with the NSW Design and Building regulation for the building type. Evidence of the engineers registration is to be provided to Council. 	Attached is the registration for the engineer that we understand meets your require Weight Section 10 and
2. In accordance with Councils Water Management Policy for Development a "DRAINS Model" is to be submitted for review, noting the post development flows up and including the 1/100AEP are to be limited to state of nature flows.	A "Drains Model" has previously been submitted for this project and was approved council officers direct (as it cannot be forwarded through the Planning Portal.

uirements. Snippet below...

ed at the time. An update will be forwarded to the

COUNCIL DEVELOPMENT ENGINEERS COMMENTS	RESPONSE TO DEVELOPMENT ENGINEERS COMMENTS
3. In accordance with section 9.7.2 of Councils Water Management Policy for Development the minimum information as listed is to be included on amended stormwater drainage plans. The design engineer is to provide a cross check in tabulated form to council that this information has been provided. The following information must be included on amended plans.	Documents are complete to include requirements of 9.7.2 of Council's Water mana The engineer advises he has completed a cross-check table
a) Dimensions (mm) and volume(s) (m3) of the proposed OSD system(s),	Response to items is:
b) Size (mm) and shape of the orifice and outlet device at the control pit. The discharge control pit is to feature an overflow escape route in the case of the orifice plate blockage.	a) Dimensions, volumes of the OSD system are nominated on the documents.b) Orifice and outlet device are shown on the drawings and sizing
c) Finished floor levels of all existing and proposed structures and existing surface levels to Australian Height Datum (AHD) are to be shown on the drainage plan(s).	c) FFL for the proposed structure are indicated on the Architectural drawings
d) Plans, elevations and sections of the OSD system(s) in relation to all existing and proposed buildings and site conditions, finished surface levels and invert levels of all stormwater drainage pipes and structures, centre line level of the outlet pipe and orifice, the maximum design water level in the OSD system. Please note that all habitable floors areas are to have a minimum 300mm free board above the OSD top water level.	d) Plans and Sections of the OSD system are indicated
e) Longitudinal section of all pipe(s) from the OSD basin to the discharge point showing calculated flows, velocities, pipe sizes, type and class, grades, and invert levels of all pipes. The stormwater plans are to demonstrate that if the OSD outlet is fixed to a basement ceiling there is adequate vehicular head height.	e) Longitudinal section is included
d) In relation to the proposed new inlet pit and the 300mm stormwater outlet in Fisher Road all utility services crossings and a hydraulic grade line are to be detailed on a suitable scaled long section. The design invert levels of the new inlet pit are also to be detailed.	d) Details are indicated on the drawings
NB all stormwater discharge from the development site is to be conveyed to Fisher Road as discharge to Francis street is against the grade and not permitted.	
4. The location of the on-site stormwater detention tank is not permitted under habitable floor areas and is to be in a communal area where the tank can be accessed for maintenance operations. It also appears that a maintenance grate has a wall located over it. The designer engineer is to confirm these requirements have been achieved and there are no obstructions to maintenance grates.	The OSD tank has been relocated at the Fisher Rd frontage. This is under the open accessible for maintenance operations if required
5. The submitted geotechnical report indicated the presence of groundwater during the excavation to the lower basement level as such it would be required that the basement be tanked to prevent the egress of groundwater and continuous discharge of groundwater to Councils stormwater drainage system.	Noted. The design has been addressed as a tanked basement.
1	

anagement Policy.

en, communal entry terrace area and hence is