



Certificate of Existing Stormwater Drainage

Date: 01/09/2021 Job No. 210794

Client: Sheldon Hatzantonis Engineer: MW/SR

Site: 22 Alkira Circuit, Narraweena

Michael Wachjo & Samuel Ruskin of Northern Beaches Consulting Engineers P/L carried out a site inspection at the above property on the 31st August 2021. The purpose of the visit was to inspect and comment on the existing stormwater drainage system and its capacity to cater for any additional flows due to the proposed modifications.

The assessment consisted of a walk over style visual inspection of the site. The site slopes away from Alkira circuit. There is an existing stormwater system on the site that discharges to a council drainage easement in council reserve at the rear of the site (refer survey for easement details). During the inspection, the existing connection to the easement was inspected.

In summary, the proposed alterations and additions are not envisaged to cause any significant increase to the existing stormwater flows on the site. The proposed first floor addition is located wholly within the existing building footprint, therefore there is no increase in impervious area. The existing stormwater system appears to be in general compliance with the Northern Beaches Council's 'Water Management for Development' policy and the national plumbing and drainage code AS3500.3 and shall be considered adequate to cater for the proposed alterations and additions subject to the following amendments.

- Install a 450mm x 450mm boundary pit with weep holes, trash screen and a 50mm deep silt arrestor.
- Provide minimum 5 new downpipes to new upper roof. New downpipes to be 100mm diameter and spread onto existing lower roof below.
- Provide a minimum additional 3 new downpipes from existing ground floor roof to existing stormwater system. New downpipes to be 100mm diameter.
- Upgrade all existing downpipes to 100mm diameter and connect into existing drainage system. Any earthenware pipes are to be upgraded to uPVC.
- Make good at outlet 2 x 90mm PVC pipes discharging into council easement.
- All roof drainage to be in accordance with AS3500.3.
- All surface and subsoil drainage to be in accordance with AS3500.3

Prior to final certification of the stormwater system, upon completion of the proposed alterations and additions, the above-mentioned items must be finalised. Northern Beaches Consulting Engineers P/L will need to inspect the above-mentioned items prior to issuing final certification of the stormwater system.

Note: This certification does not alleviate the responsibility of the owners of the property to properly maintain the existing stormwater system.

We trust that this certificate meets with your requirements. Please contact the author if further clarification is required.

NORTHERN BEACHES CONSULTING ENGINEERS P/L



Michael Wachjo

BE MIEAust Director

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