

FLOOD EMERGENCY RESPONSE ASSESSMENT 11 CATALINA CRESCENT AVALON BEACH NSW 2017

Date:

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Prepared For:

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Signed:



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1. Introduction

This Flood Emergency Response Assessment is provided as an addendum to the Flood Management Report for 11 Catalina Crescent Avalon Beach NSW 2017 (Date: 27 July 2023) and provides additional information to address Clause E1 of the Pittwater 21 DCP(2014)-B3.11.

The proposed development is within the H5 Flood Life Hazard Category area of the site in the PMF as shown on MAP F of the Flood Information Report. Therefore, in accordance with planning guidelines a Flood Emergency Response Assessment is required as part of the Flood Management Report.

2. Site and Flood Levels

The Flood Information Report states the following flood levels.

- Maximum Flood Planning Level (FPL) = 4.02m AHD
- 1% Maximum AEP Water Level = 3.52m AHD
- Probable Maximum Flood Level (PMF) = 5.56m AHD
- 1% Maximum AEP Water Level with Climate Change = 3.94m AHD

The floor level of the proposed building is 4.09m AHD which is 70mm higher than the FPL (4.02m AHD) and 0.570m higher than the 1% AEP water level. The floor levels of the main house structure on the property are RL 4.90m AHD (lower floor) and RL 7.60m (upper floor). All natural ground levels on the property are below the PMF (Max. RL 5.30m). External to the property land areas higher than the PMF are directly accessible via Catalina Crescent (eg. North Avalon Road shops opposite Binburra Avenue)

3. Flood Emergency Response

The form of flood emergency response for the proposed development is “evacuation” to land higher than the PMF before the proposed building becomes flood affected. The nominated “evacuation destination” is the footpath area on the southern side of North Avalon Road opposite Binburra Avenue next to the existing shops. It can be expected that there would be adequate food, water and communications at this evacuation destination. This area is easily accessed on foot via Catalina Crescent.

The proposed flood emergency evacuation route from the entrance to the proposed building to the evacuation destination is shown on DRG. CATALINA_013 in Appendix A. The ground level of the access route will be not less than the 1% AEP Water Level (3.52m AHD). As the proposed building is ancillary to the main house, the number of occupants in the proposed building at any time will be limited (eg. 1 to 3).

Occupants of the proposed building can also evacuate directly to the main house which contains an upper story higher than the PMF level. The evacuation route to the main house is shown also on DRG. CATALINA_013 in Appendix A.

To ensure that there is sufficient time to evacuate safely before flooding, a flood marker post will be attached to the fence on the southern property boundary in a location visible to the occupant's of the proposed building from the entry point. This proposed location for the

flood marker post is shown on DRG. CATALINA_013 in Appendix A. The existing ground level at this point is around 2.5m (approx. 1.0m below the 1% AEP Water Level) .

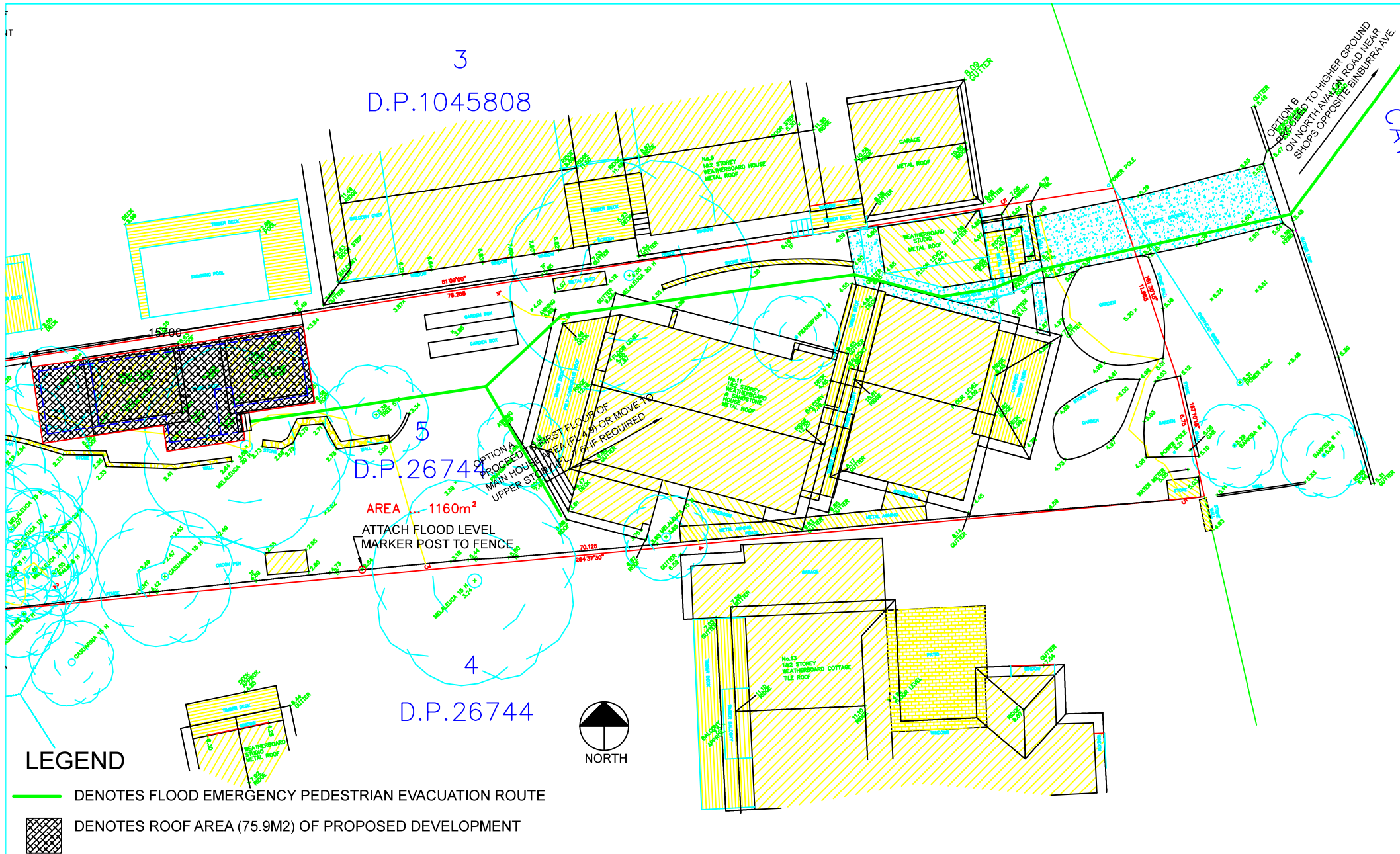
The flood marker post will show the 1% AEP water level (3.52m AHD), as checked by the project Surveyor. A flood evacuation “trigger” level of 3.0m AHD will be shown also on the flood marker post. The marker post will be coloured green between ground level and 3.0m AHD, Amber between 3.0m AHD and 3.52m AHD, and red greater than 3.52m AHD. If the flood water is with the green zone then the occupants should be alert and monitor the flooding situation. If the flood water rises to within the amber zone then the occupants must prepare for evacuation . If the flood water rises to within the red zone then the occupants must evacuate the building. It would be expected also that in such a flood event scenario the Council, NSW State Emergency Services, and other agencies will be issuing warnings and evacuation orders which would prevail.

4. Flood Evacuation Plan

A Flood Evacuation Plan will be prepared and displayed in a prominent location within the proposed building to ensure that the building occupants are aware of what to do in the event of rising flood waters. It will include a Plan showing the flood evacuation route and destination, the location of the flood marker post, emergency contacts, and the required actions when the flood waters are within the green, amber and red zones of the flood marker post.

APPENDIX A

FLOOD EMERGENCY EVACUATION ROUTE DRAWING



Revisions			PROPOSED DEVELOPMENT		FLOOD EMERGENCY PEDESTRIAN EVACUATION ROUTE		Design	PL	Check	PL
No.	Description	Date	PROPERTY: 11 CATALINA CRESCENT AVALON BEACH NSW 2017		LOT DP: LOT 5 DP 26744		Drawn	PL	Check	PL
			APPLICANT: CHARLES MORT		DESIGNER : PHILIP LOW (PH: 0410 542466 E: philip.low@app.com.au)		Scale (Orig. A3)		As Shown	
							File Name			
							Drawing No.		CATALINA 13	
BY										
A	Original Issue	16/02/24								