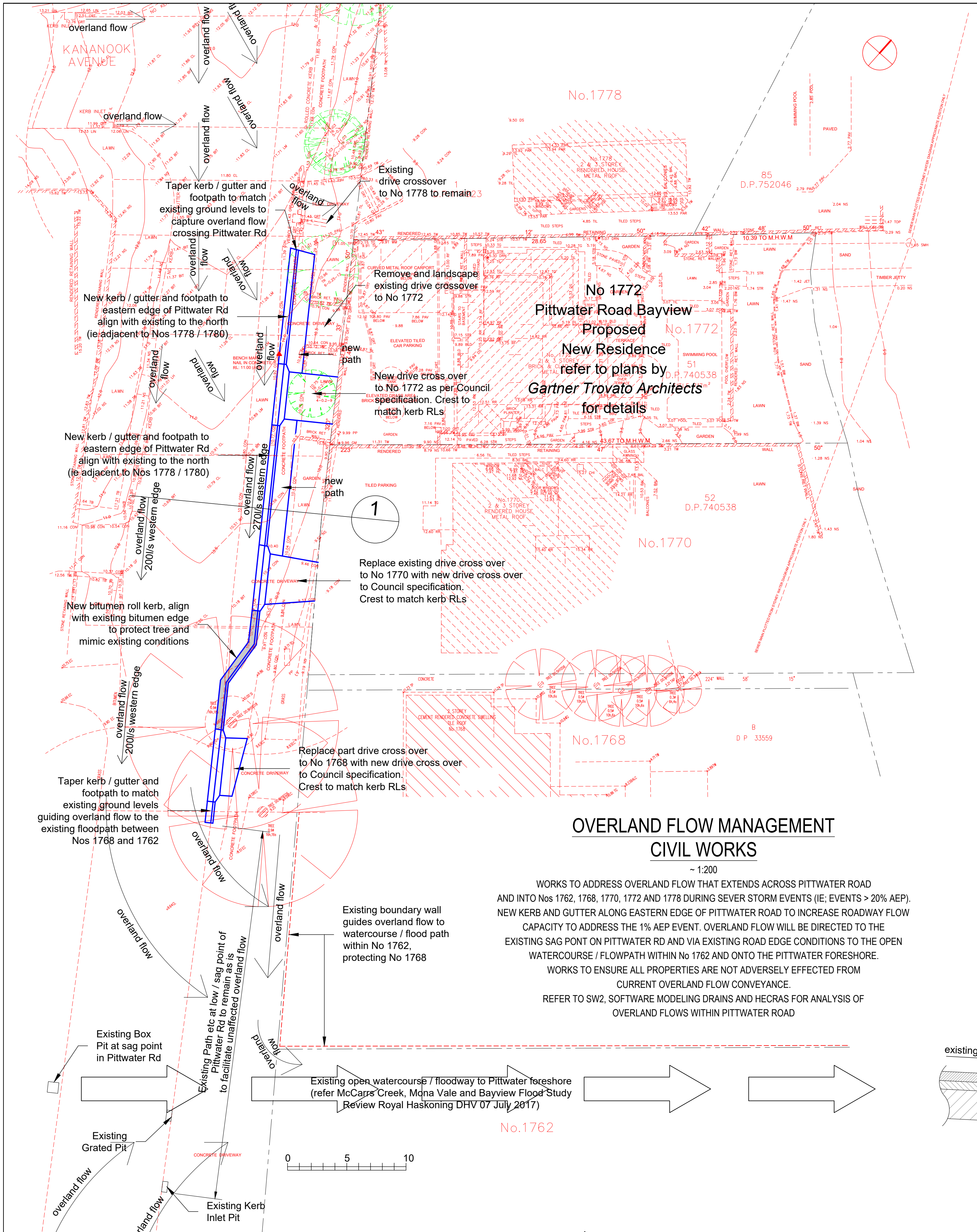




OVERLAND FLOW MANAGEMENT CIVIL WORKS

~ 1:200

WORKS TO ADDRESS OVERLAND FLOW THAT EXTENDS ACROSS PITTWATER ROAD AND INTO Nos 1762, 1768, 1770, 1772 AND 1778 DURING SEVER STORM EVENTS (IE; EVENTS > 20% AEP). NEW KERB AND GUTTER ALONG EASTERN EDGE OF PITTWATER ROAD TO INCREASE ROADWAY FLOW CAPACITY TO ADDRESS THE 1% AEP EVENT. OVERLAND FLOW WILL BE DIRECTED TO THE EXISTING SAG POINT ON PITTWATER RD AND VIA EXISTING ROAD EDGE CONDITIONS TO THE OPEN WATERCOURSE / FLOWPATH WITHIN No 1762 AND ONTO THE PITTWATER FORESHORE. WORKS TO ENSURE ALL PROPERTIES ARE NOT ADVERSELY EFFECTED FROM CURRENT OVERLAND FLOW CONVEYANCE. REFER TO SW2, SOFTWARE MODELING DRAINS AND HECRAS FOR ANALYSIS OF OVERLAND FLOWS WITHIN PITTWATER ROAD

Council Development Engineer Comments MOD 2022/0460 (17 November 2022) -

Extending the proposed kerb and gutter to the stormwater pit outside 1762 Pittwater Road, Bayview. The kerb and gutter will need to connect into the existing kerb inlet pit (SPP54339). All downstream properties are low-lying properties, and as such all driveway crests along the extent of kerb works will need to match the Reduced Levels of the new Kerb and Gutter.

Either option will require overland flow modelling to demonstrate that there will be no adverse flooding impacts to adjoining properties. Additionally Hydraulic Modelling for the proposed and existing stormwater system will need to be completed demonstrating that there will be no adverse impacts upstream and downstream.

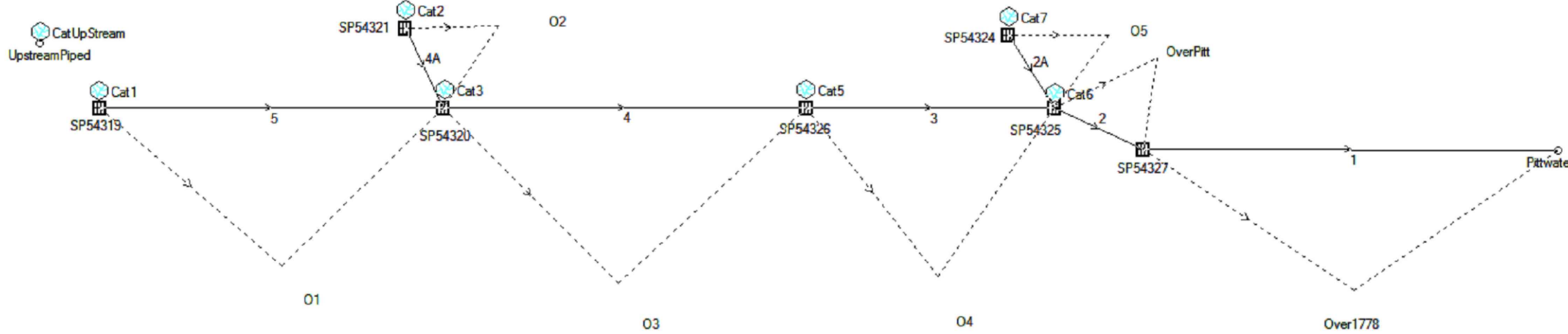
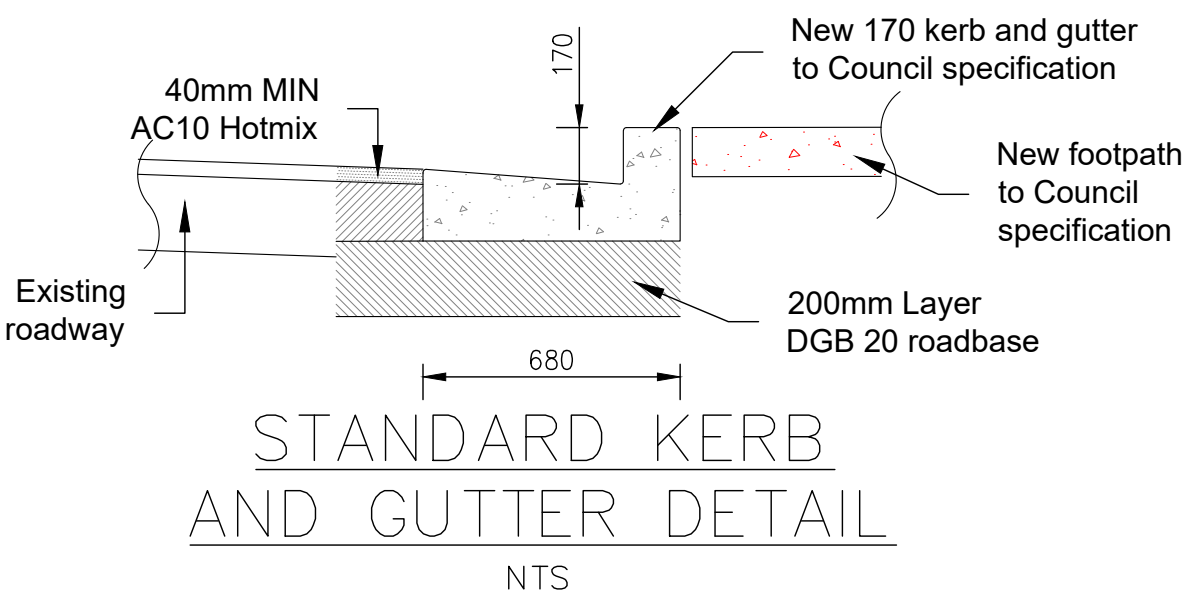
Barrenjoey Consulting Engineers Design Response -

The works have been designed in a conventional manner typical of standard road works. Flows cresting Pittwater Rd will be conveyed within the kerb and gutter to the existing open watercourse / floodpath and onto the Pittwater foreshore (for detail on floodpath refer McCarrs Creek, Mona Vale and Bayview Flood Study Review Royal Haskoning DHV 07 July 2017).

It is proposed to terminate the kerb and gutter adjacent to / downhill of No 1768s driveway at a point equal with the existing overland flood path off Pittwater Rd. Councils suggested extension "to the stormwater pit outside 1762 Pittwater Road, Bayview" is not practical as this pit is 'uphill' of the catchments low point and will create adverse ponding across Pittwater Rd and a detrimental impact on the flood conveyance.

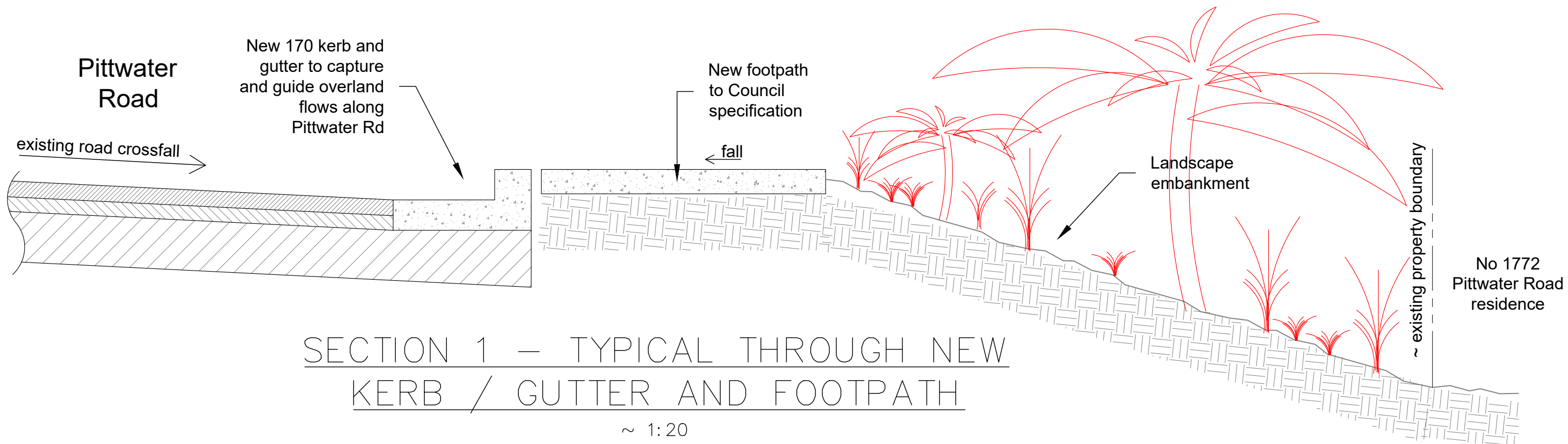


OVERLAND FLOWS DURING STORM EVENT MARCH 2020 ~20%AEP STORM (FROM KANANOOK AVE LOOKING EAST)



DRAINS CATCHMENTS LAYOUT

REFER TO MODELING / SUMMARY SW2 FOR CATCHMENTS / SUB CATCHMENTS ANALYSIS INLET PITS AS PER COUNCIL MAPPING DATA



ISSUE:		
Prelim	23. 03. 2020	Issued for comment
DA mods	07. 12. 2022	Issued for Council submission

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PROJECT:

PITTWATER ROAD
CIVIL WORKS

DRAWING :

OVERLAND FLOW
CIVIL WORKS
PLAN & DETAILING

Job No :
200303
Drawing No
SW1
per
Lucas Molloy MEA OPEN MER Director

