

Decription and Link
Street Map
Interim Minor Works
Previous Event - 5 2 2017
Event 25 3 2018 17 Ribbon Avenue
Event 25-3-2018 15 Ribbon Avenue
Catchment Areas
Breakout Locations
Storm Water Ponding
Flood CheckAEP 1%
ENGINEERS OVERVIEW
FNQROC Design Criteria
Aerial Photo 2014
Historical Aerial Photo
Option 8



INTERIM MINOR WORKS





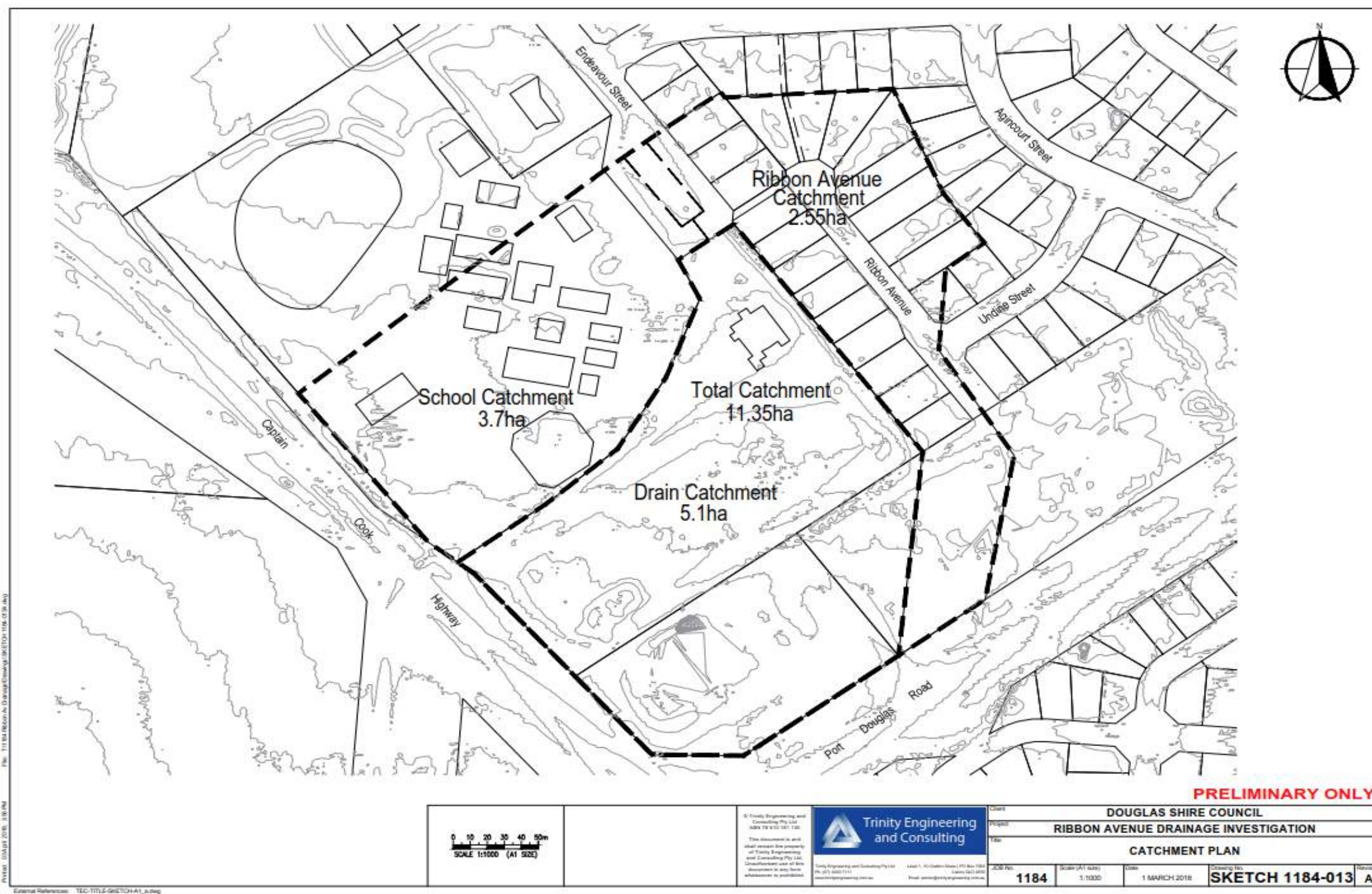
18 RIBBON AVENUE



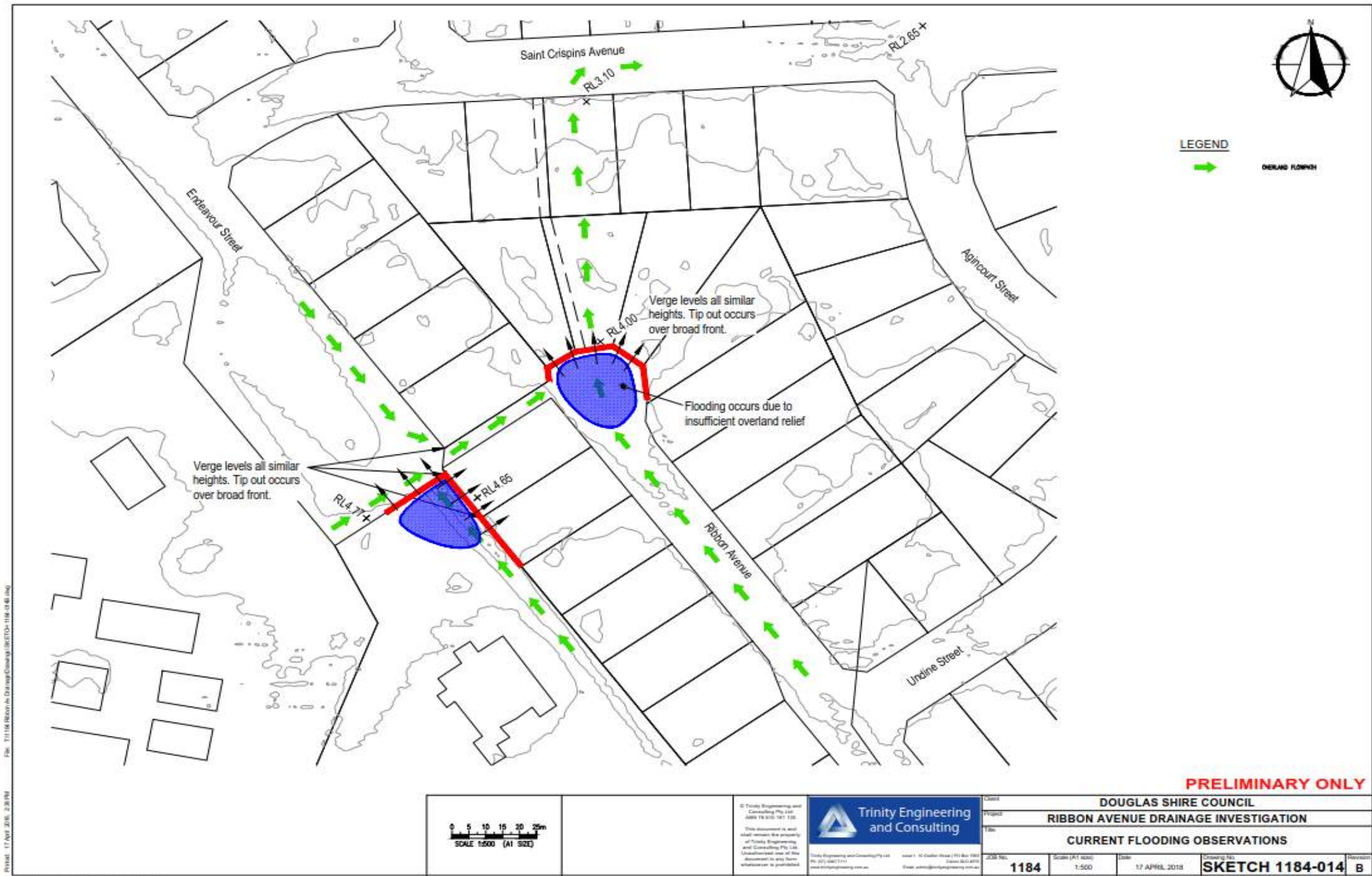




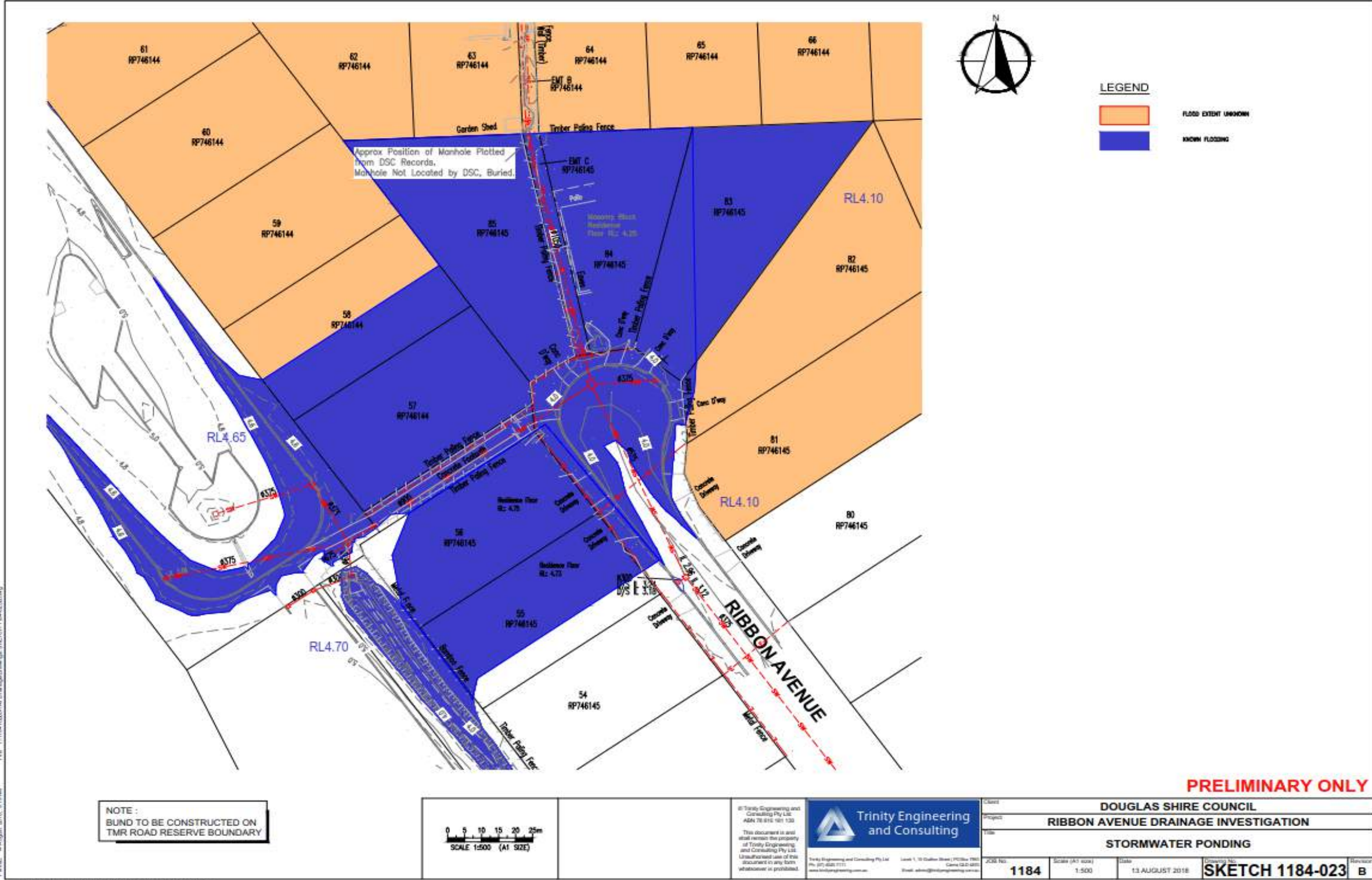
Drainage Catchment Areas



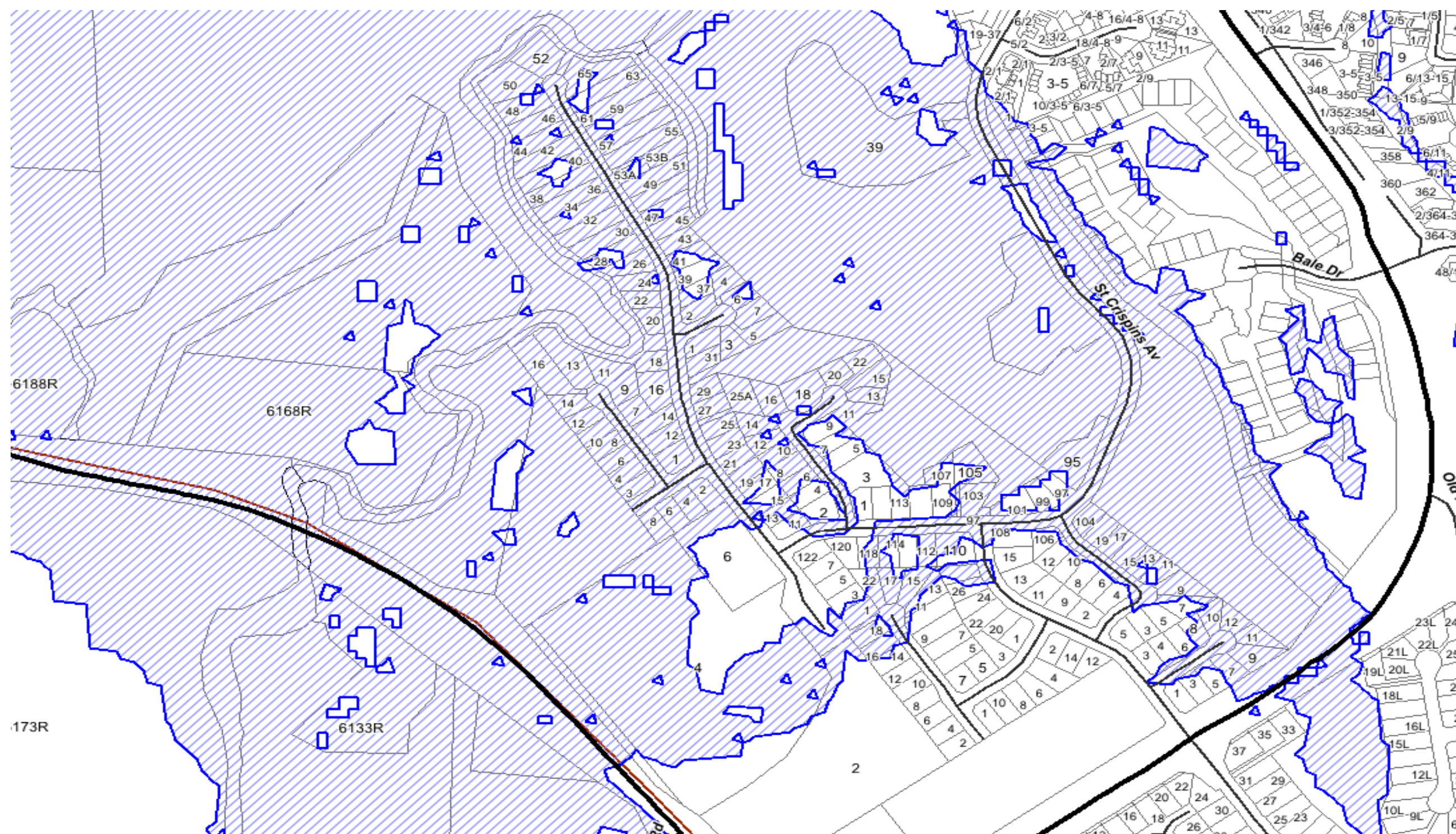
RIBBON AVENUE STREET MAP

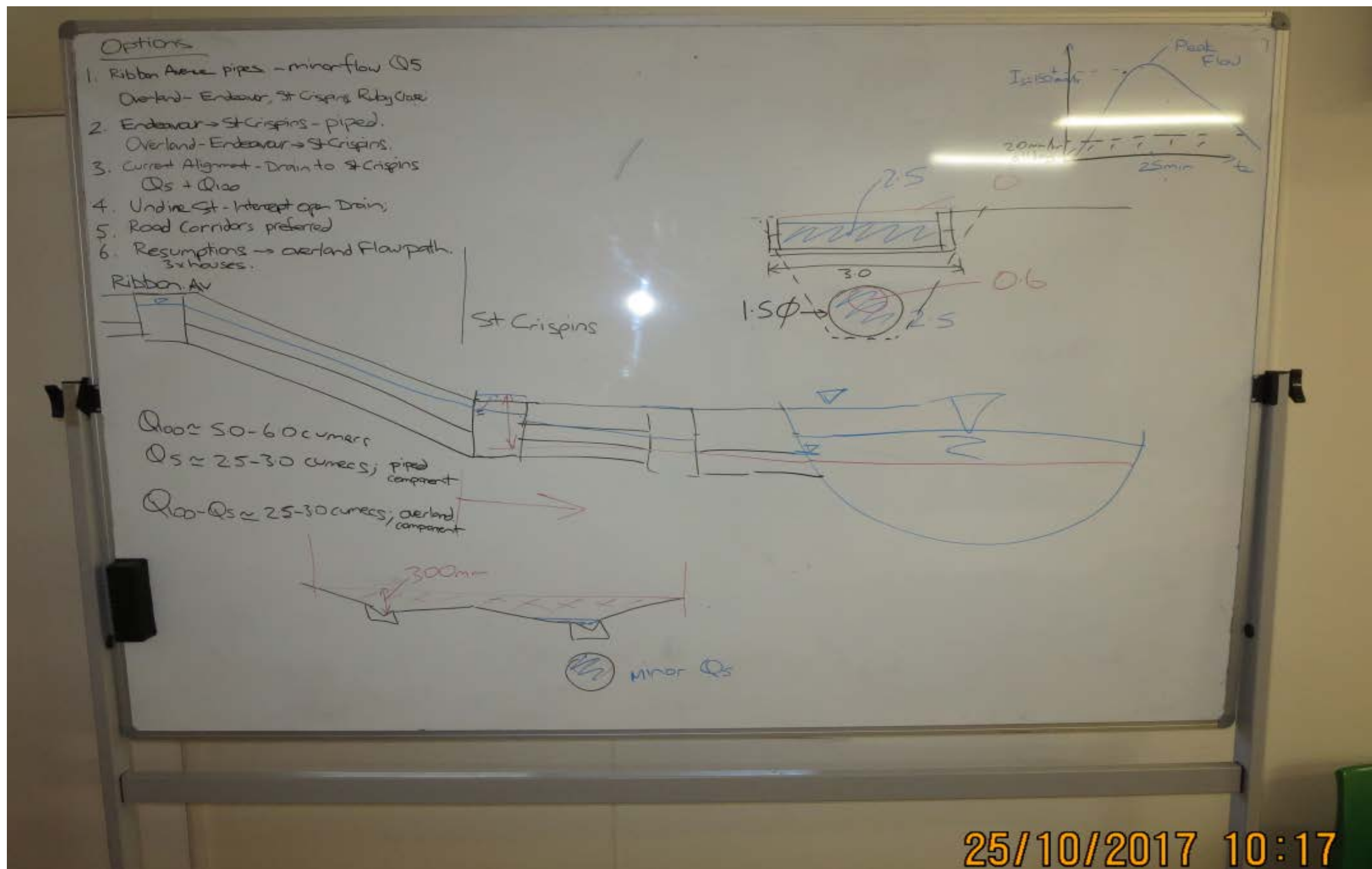


STORMWATER RUNOFF AND PONDING



<http://dnrm-floodcheck.esriaustraliaonline.com.au/floodcheck/>





25/10/2017 10:17

STORMWATER DRAINAGE

D4.05 DESIGN AVERAGE RECURRENT INTERVAL ^{CRC}

- Design Average Recurrence Interval (ARI) shall be in accordance with table 4.3 "Recommended Design Average Recurrence Intervals" (modified from QUDM) unless noted otherwise in the Local Authority Specific Requirements.
- For the purpose of drainage, a major road shall be defined as a major collector or higher order road.

Table 4.3 – Recommended Design Average Recurrence Intervals

(i) MAJOR SYSTEM DESIGN ARI (years)		100 ¹
(ii) MINOR SYSTEM DESIGN ARI (years)		
Development Category		
Central Business and Commercial		10
Industrial		5
Urban Residential High Density - greater than 20 dwelling units/ha		10
Urban Residential low Density - greater than 5 & up to 20 dwelling units/ha		5
Rural Residential – 2 to 5 dwelling unit/ha		5
Open Space – parks, etc.		1
Major Road	Kerb & Channel Flow	10 ²
	Cross Drainage (Culverts)	50 ³
Minor Road	Kerb & Channel Flow	Refer to relevant development category in QUDM
	Cross Drainage (Culverts)	10 ³
<ol style="list-style-type: none"> <i>State Planning Policy</i> recommends adoption of the 1% AEP (Annual Exceedance Probability) flood frequency for waterway flood management planning. The design ARI for the minor drainage system in a major road shall be that indicated for the major road, not that for the Development Category of the adjacent area. Culverts under roads should be designed to accept the full flow for the minor system ARI shown. In addition the designer must ensure adequate public safety controls (e.g. d*V product) exist and that the nominated Major Storm flow does not cause unacceptable damage to adjacent properties, or adversely affect the use of the land. If upstream properties are at a relatively low elevation, it may be necessary to install culverts of capacity greater than that for the minor system ARI design storm to ensure unacceptable flooding of upstream properties does not occur. In addition, the downstream face of causeway embankments may need protection where overtopping is likely to occur. 		



DRAINAGE OPTION 8

