

Your ref  
Our ref  
File ref

# ARUP

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27 November 2019

Dear Hannah

**2 Macpherson Street, Warriewood NSW DA 2019/0887  
Pre-construction conditions – Traffic & Transport**

We have developed the response below to address the pre-construction conditions relating to DA 2019/0887, as outlined in the Council Traffic Engineer Referral response to the application.

***Provision of adequately wide driveway - The driveway providing access to Lot 1, 2, 21 and 22 is to be adequately wide to allow for vehicles to manoeuvre in and out of the garages. In accordance with Australian Standards AS2890.1:2004. it is required to be between 5.6 to 7.0m wide depends on the door way width.***

We note that the laneway at the rear of plots 1, 2, 21 and 22 will need to be widened. As all garages relating to these plots will be for single vehicles and have a minimum doorway width of 3.0m, the required width of the laneway will be 5.6m to align with Figure 5.4 of AS/NZS 2890.1:2004 and the condition above.

The building envelope drawing XXXX\_SK001 has been updated to reflect this change so the envelopes do not encroach on the adjusted laneway. The civils drawing C005-18-580-D has also been revised widening the driveways which connect the one-way loop to the laneway. Swept path analysis has not been undertaken given that the widths provided adhere to AS/NZS 2890.1:2004. Both these drawings are attached to this letter, so they can be reviewed by Council's Traffic Engineer.

We hope these responses address the concerns raised Council. If you have any further queries, please contact the undersigned on 02 9320 9259.

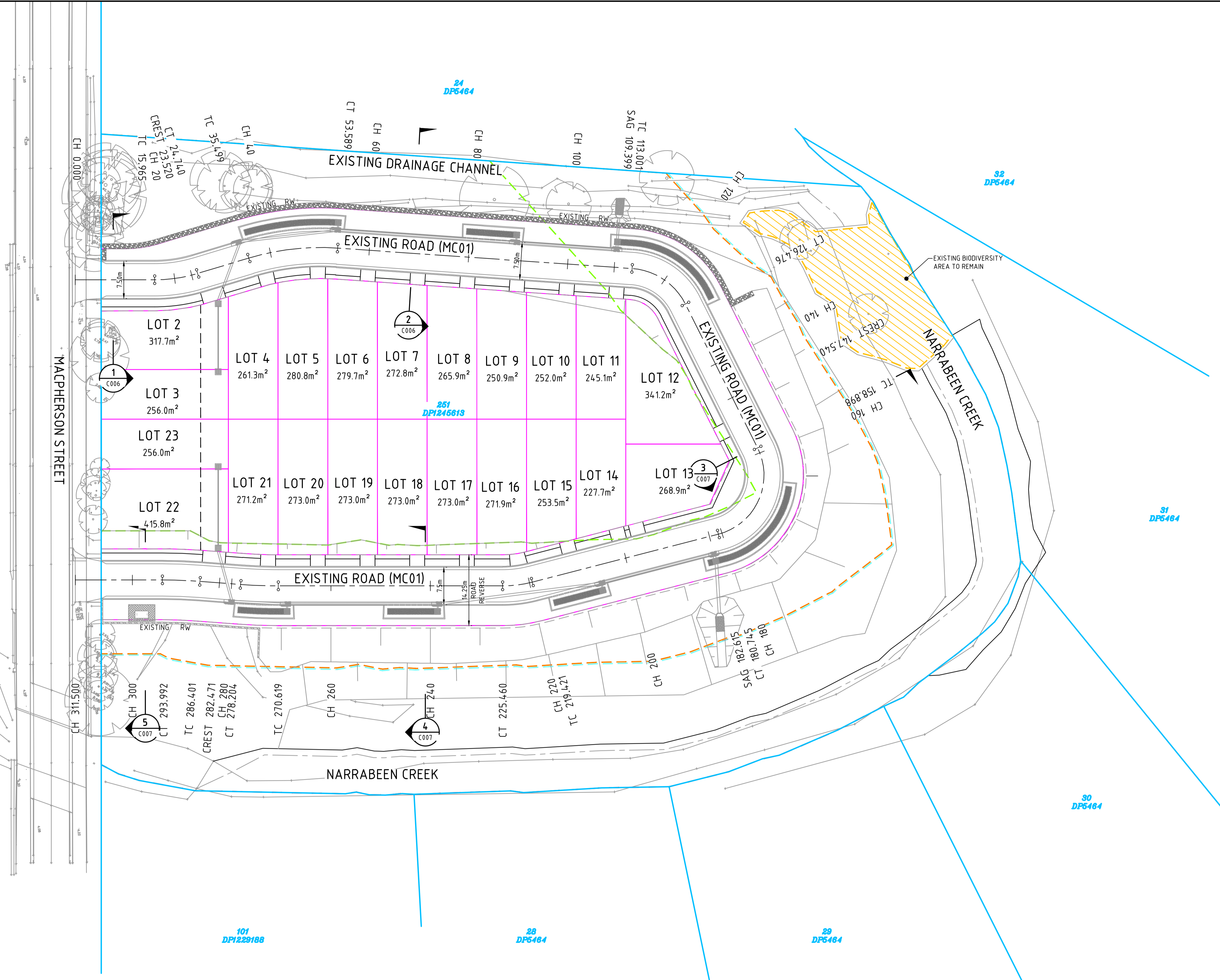
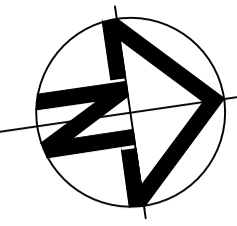
Yours sincerely



James Turner  
Senior Transport Engineer

Enc Building envelope drawing – XXXX\_SK001  
Civils drawing – C005-18-580-D

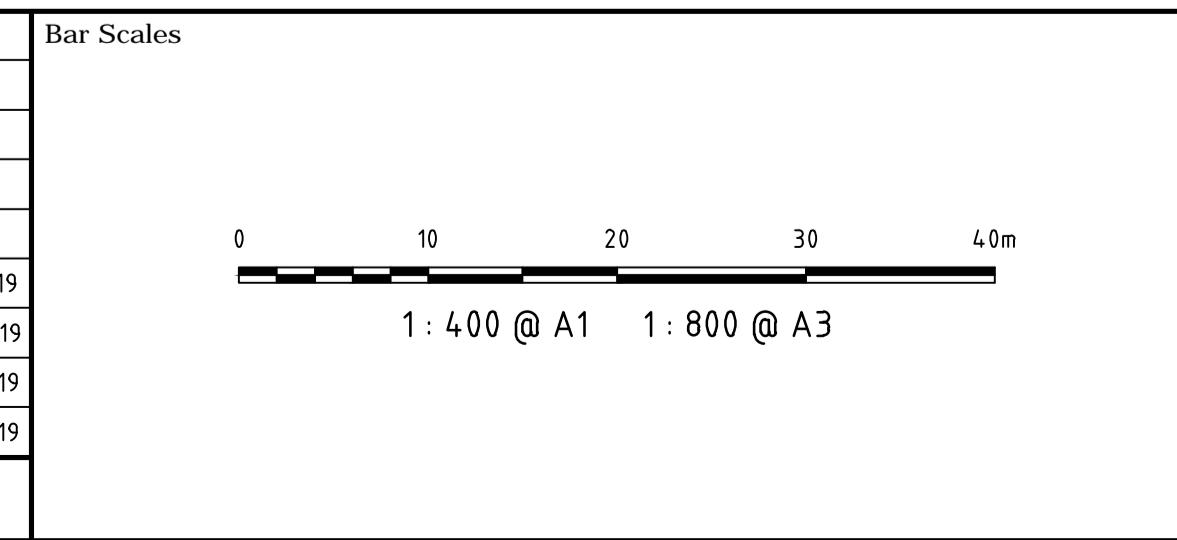




GENERAL ARRANGEMENT LEGEND	
<b>EXISTING</b>	
	EXISTING BOUNDARY
	EXISTING CONTOUR
	EXISTING 20m ASSET PROTECTION ZONE
	EXISTING TREE
	EXISTING CREEK CENTERLINE
	EXISTING 25m RIPARIAN CORRIDOR
	EXISTING 25m PRIVATE BUFFER
<b>WORKS INSTALLED AS PART OF DA N03981</b>	
	EXISTING BIODIVERSITY EXTENTS
	EXISTING KERB & GUTTER
	EXISTING ROLL TOP KERB AND GUTTER
	EXISTING BATTER
	EXISTING ROCK RETAINING WALL
	EXISTING RETAINING WALL
	EXISTING STORMWATER PIPE (SHOWING SIZE)
	EXISTING STORMWATER KERB INLET PIT
	EXISTING STORMWATER SURFACE INLET PIT
	EXISTING STORMWATER RAINGARDEN
	EXISTING STORMWATER PIT NUMBER
<b>PROPOSED</b>	
	PROPOSED BOUNDARY
	PROPOSED EASEMENT
	PROPOSED DRIVEWAY. LOCATIONS SHOWN ARE INDICATIVE ONLY AND ARE SUBJECT TO FUTURE APPROVAL

- NOTES**
- ROADWORKS, EARTHWORKS, STORMWATER AND CREEK WORKS N03981 TO FORM PART OF THE EARLY WORKS PACKAGE. REFER TO THE EARLY WORKS PACKAGE FOR DETAILS.
  - REFER DRAWING C020 FOR CIVIL DETAILS.

Issue	Description	Date
D	ISSUED FOR APPROVAL	27-11-19
C	ISSUED FOR APPROVAL	22-07-19
B	ISSUED FOR APPROVAL	17-07-19
A	ISSUED FOR APPROVAL	12-07-19



THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client

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Scales	1 : 400 @ A1	Drawn	GJ
		Designed	GJ
Grid	MGA	Checked	AT
Height Datum	AHD	Approved	

Project

**2 MACPHERSON STREET  
WARRIEWOOD  
SUBDIVISION  
PACKAGE**

Title

**GENERAL ARRANGEMENT  
PLAN**

Civil Engineers and Project Managers

**at&l**

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Status	<b>FOR APPROVAL</b>	A1
NOT TO BE USED FOR CONSTRUCTION		
Drawing No.	Project No.	Issue
C005	18-580	D