Version 1.3
30/10/2019

Construction Traffic Management Plan

Job Site 70 South Creek Road, Collaroy

Jim's Traffic Control

Table of Contents

About This Project

Background:

This CTMP relates to the redevelopment of the Pittwater House School including:

- Construction of one new 2 storey building
- Partial demolition and refurbishment of M-block building
- Construction of two new parking areas and a drop-off/pick-up area.

Company responsible for Construction: The Contractor®
Approved: TBC
Consent to Operate from: TBC
Consent to Lapse on: TBC

Location:

The Work Site is located at 70 South Creek Road, Collaroy

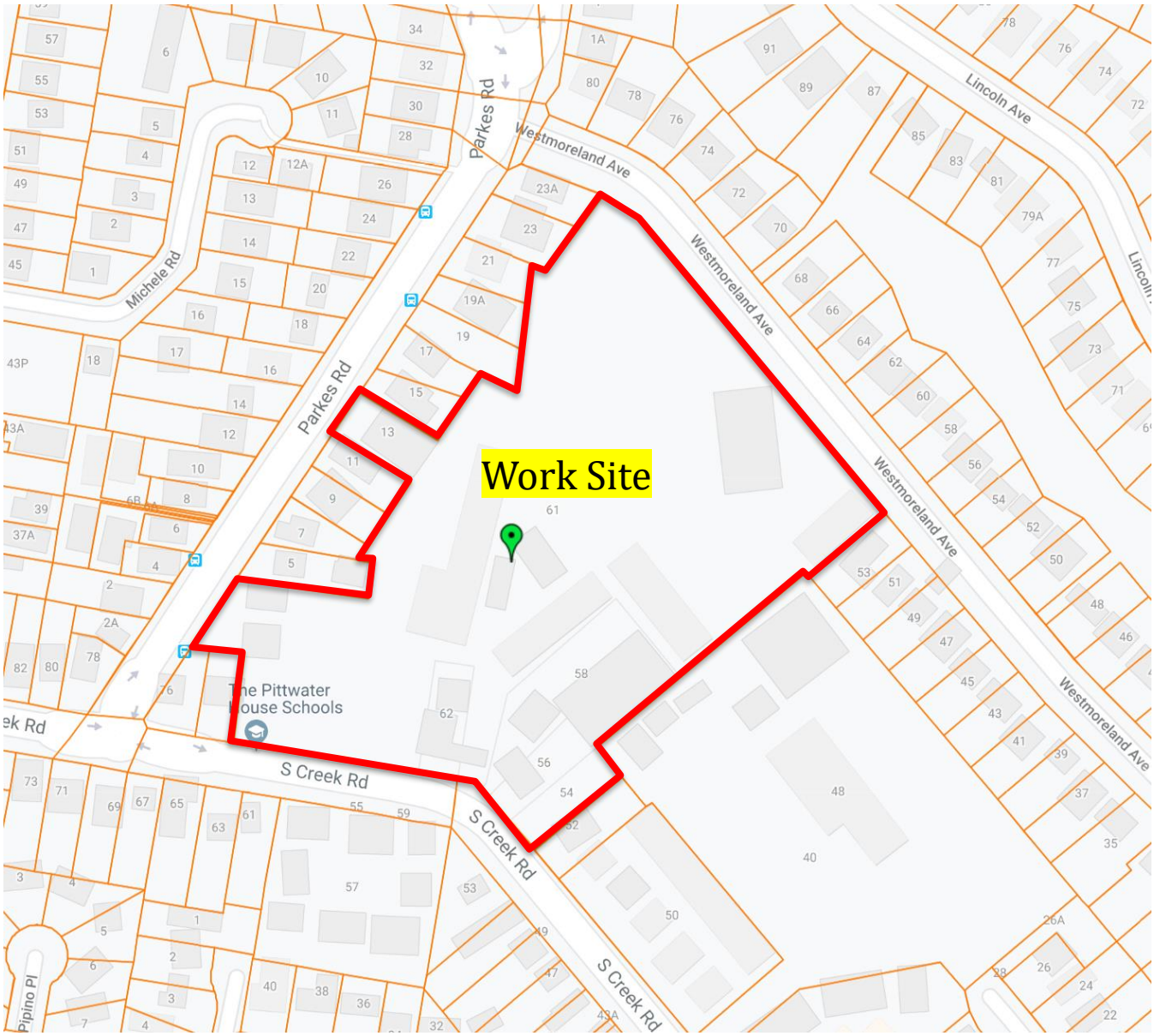


Figure 1 – Location of Work Site

Figure 2 – Location of Work Site

Purpose:

The Purpose of this report is to satisfy the RMS and Northern Beaches Council's requirements and describe how The Contractor® proposes to manage traffic and pedestrian movements safely whilst carrying out their respective activities.

Objectives:

The key objectives of this CTMP are:

- To satisfy RMS and Northern Beaches council conditions related to Traffic, Transport and Access.
- To ensure no one is injured on the project and there is no property damage.
- To maximize the value and outcomes of traffic monitoring activities.
- To actively monitor traffic impacts related to the construction works so that information can be applied to the planning and implementation of traffic control plans.
- To minimise delays to traffic and consider the needs of all road users.
- Ensure compliance with relevant specifications and the RMS's – 'Traffic Control at Work Sites' Handbook Version 5.

Construction

Construction Activities:

Stage 1: Demolish Sheds + Paths, Demolition Driveway and Construct Bus Parking (6 weeks)
Stage 2: Construct Carpark 2, Demolish Sheds, Construct Driveway (8 weeks)
Stage 3: Refurbishment of M-block, Demolish and Construct Stairs (6 weeks)
Stage 4: Demolish and Construct Carpark 1, Demolish Demountables, Construct New Building and New Landscaping (9 months)
Stage 5: New Landscaping + Sub-soil Drainage (8 weeks)

Working Hours:

Monday – Friday: 7am – 5pm
Saturday: 7am – 4pm
No work is permitted on Sundays or Public Holidays

Work Zones:

There will be no Work Zones in place for this project. Works will be conducted from the confines of the site during construction.

Access/Egress of Vehicles:

Vehicles will move in and out of the site in a forward direction. A speed limit of 5km/h will be maintained at all times whilst within the site area. Advanced warning and directional signage will be placed upon entry and exit of the construction site. The signage will guide drivers to the construction site.

The vehicles' movement will be carried out taking into consideration the surrounding building and roads. Mitigation measures will be put in place and a traffic control plan has been developed to ameliorate conditions.

All exiting trucks will be loaded to their prescribed weight limits. All trucks will be covered by tarpaulin or like prior to exiting the site as required. All vehicles leaving the site must be free of mud or any other debris. The Site manager is responsible for all vehicles accessing and egressing the site. At points of vehicle egress the driver will ensure vehicles give way to pedestrians and cyclists before exiting.

During times of Access and Egress, certified RMS accredited Traffic Controllers will be on site.

This CTMP and all plans associated with it will be given to all drivers visiting the site prior to arrival.

Figure 3 – Main Access Route

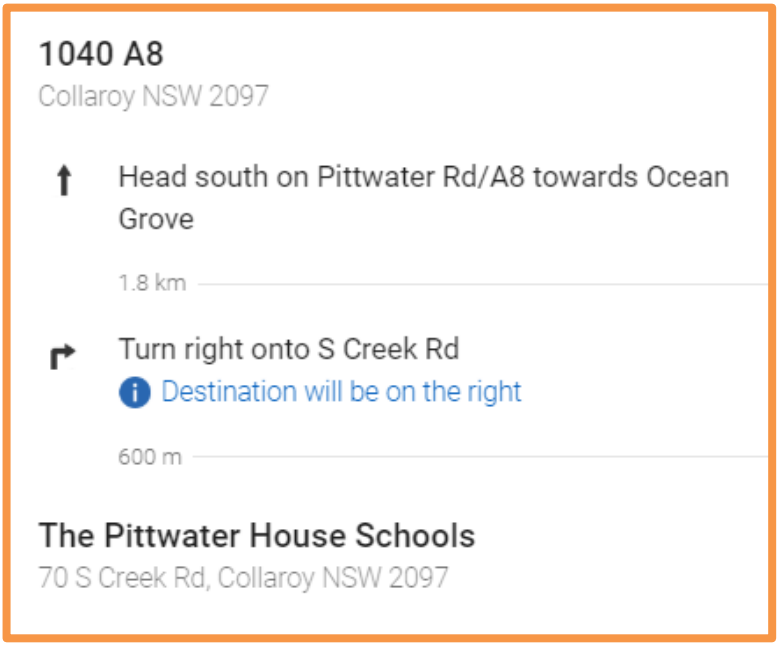
Access Routes:

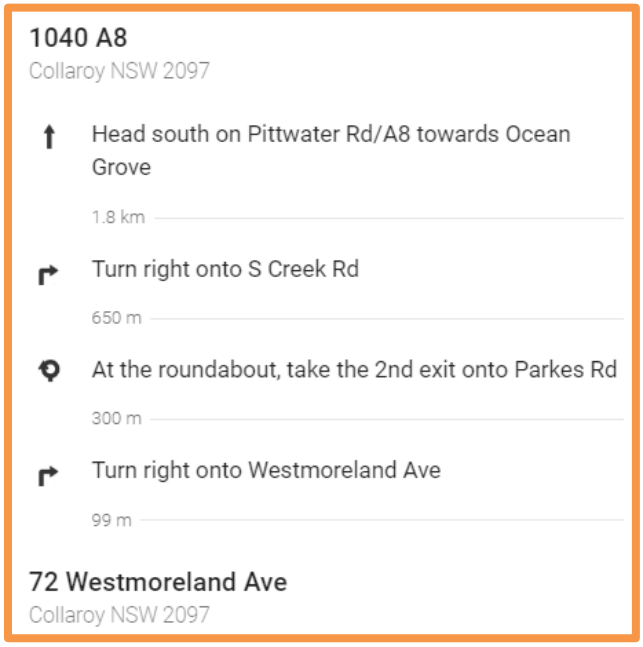
Access to the site will take place at one of three locations. This will be from the Southern end of South Creek Road or Northern/Southern end of Westmoreland Avenue as seen below.

Vehicles accessing the site will use State roads unless otherwise stated in this document.

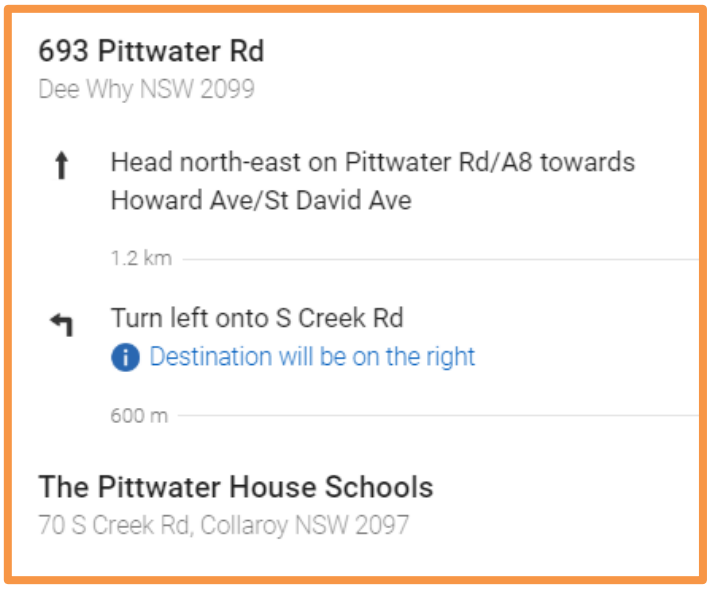
1. Vehicles will approach the site using the Access routes outlined in this document.
2. Vehicles accessing the site using either the Northern or Southern Access Routes below.
3. Vehicles accessing the site will do so as shown below moving in a forward direction.
4. Certified traffic controllers will be on site to assist with significant vehicle movements to the site.

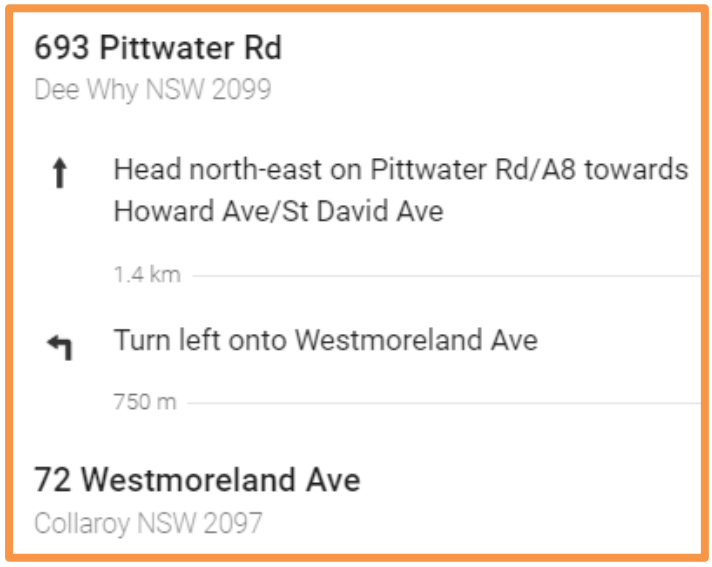
Northern Access:



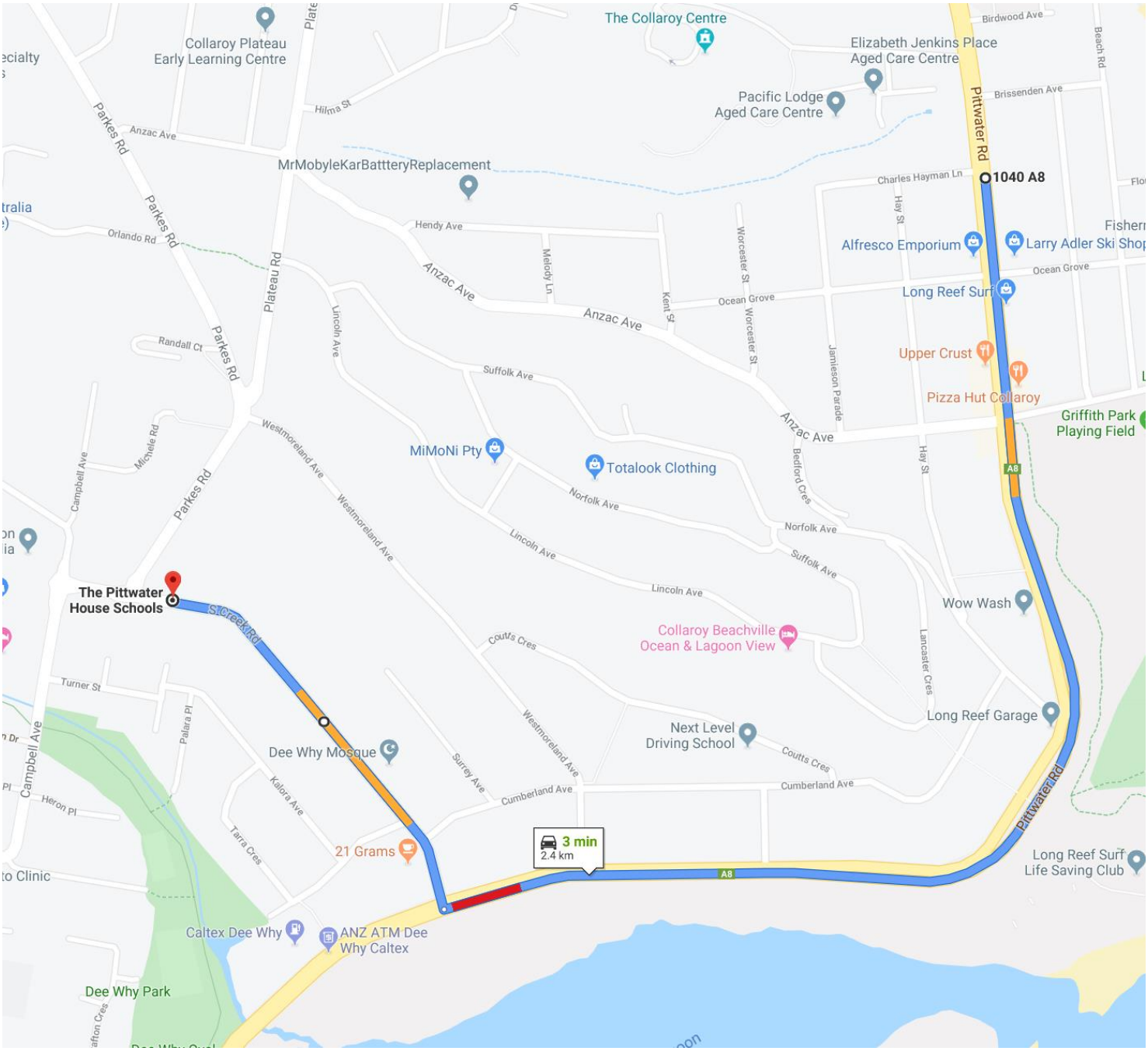


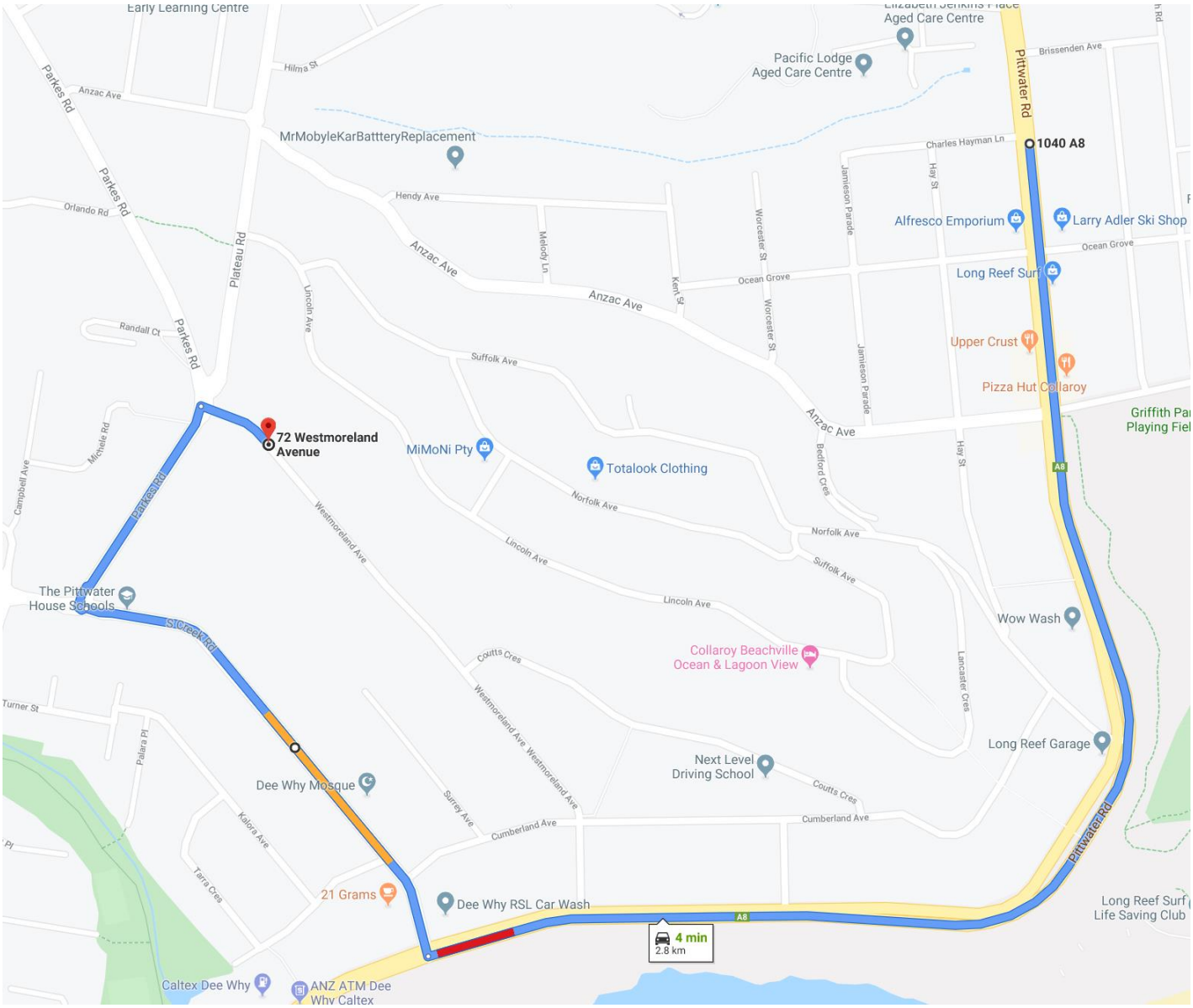
Southern Access:



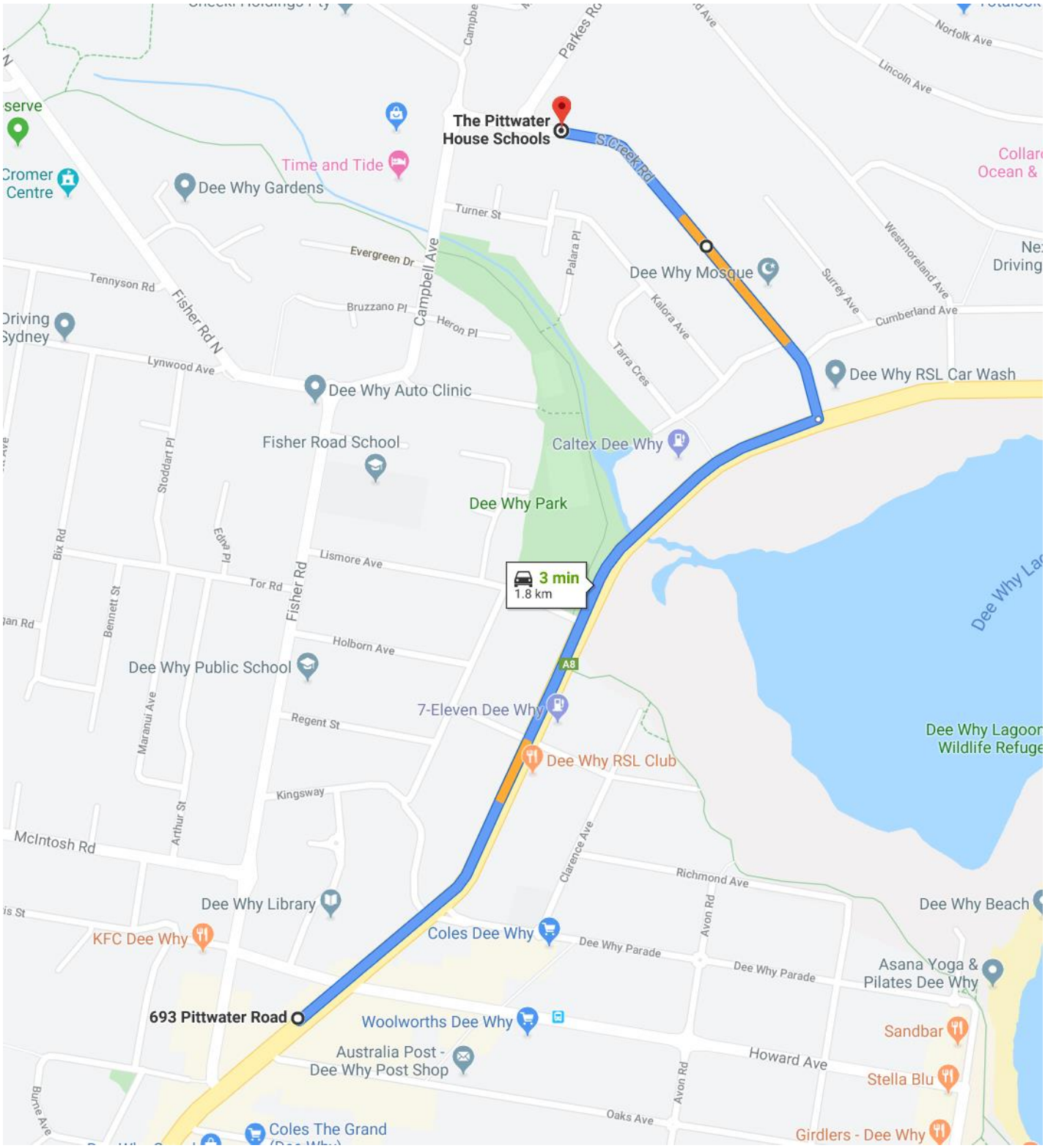


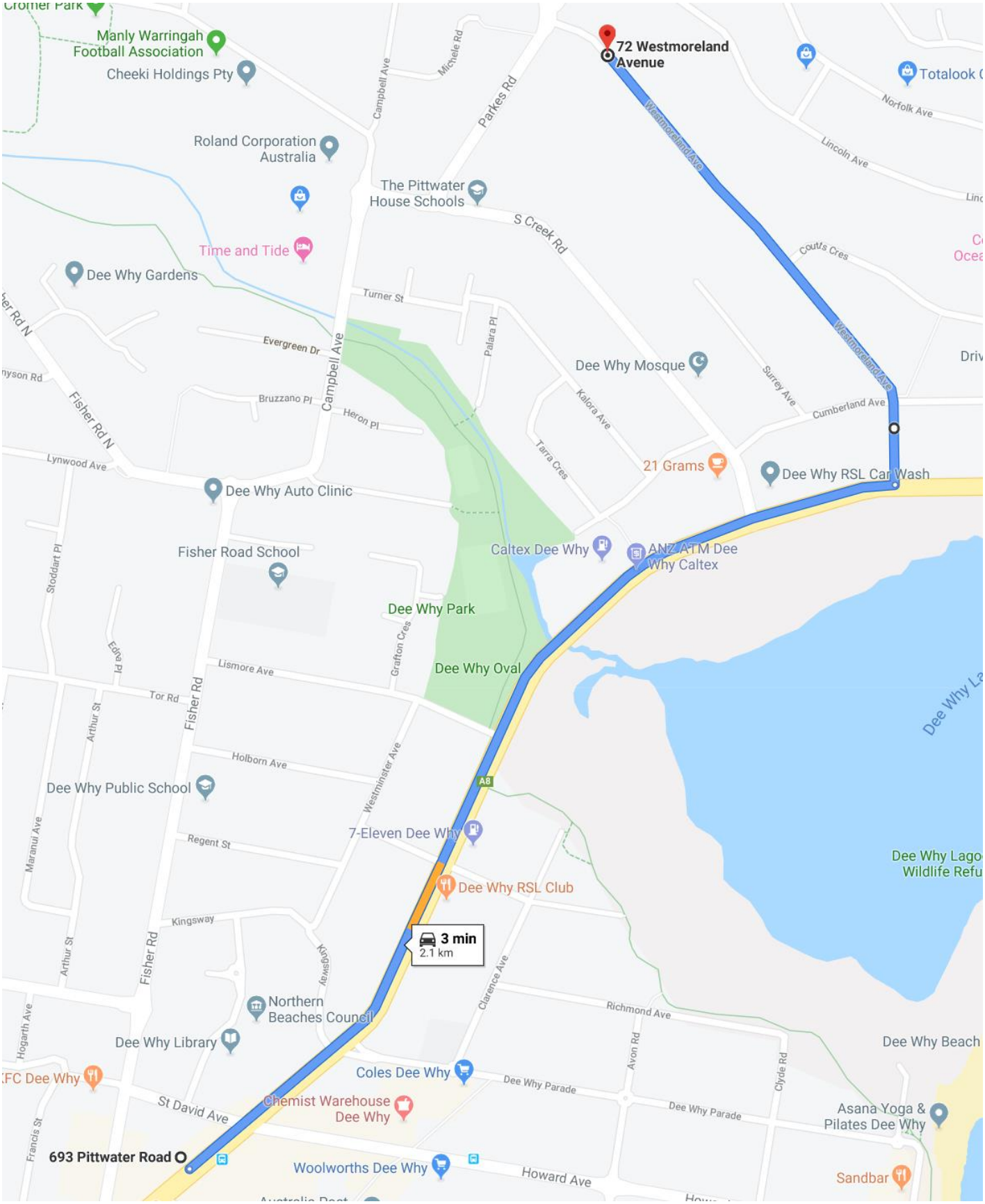
Northern Access




Early Learning Centre
Aged Care Centre
Pacific Lodge Aged Care Centre
Brissenden Ave
Pittwater Rd
1040 A8
Hilma St
Parkes Rd
Anzac Ave
MrMobyleKarBattteryReplacement
Charles Hayman Ln
Hendy Ave
Orlando Rd
Plateau Rd
Melody Ln
Worcester St
Jamieson Parade
Hay St
Alfresco Emporium
Larry Adler Ski Shop
Ocean Grove
Long Reef Surf
Kent St
Randall Ct
Lincoln Ave
Suffolk Ave
Upper Crust
Pizza Hut Collaroy
Griffith Pa
Playing Fiel
72 Westmoreland Avenue
MiMoNi Pty
Totalook Clothing
Bedford Cres
Michele Rd
Campbell Ave
Norfolk Ave
Westmoreland Ave
Lincoln Ave
Wow Wash
The Pittwater House Schools
South Creek Rd
Collaroy Beachville Ocean & Lagoon View
Coutts Cres
Lancaster Cres
Turner St
Palara Pl
Long Reef Garage
Next Level Driving School
Dee Why Mosque
Surrey Ave
Cumberland Ave
Kalora Ave
Terra Cres
21 Grams
Dee Why RSL Car Wash
A8
4 min
2.8 km
Long Reef Surf Life Saving Club
Caltex Dee Why
ANZ ATM Dee Why Caltex

Southern Access




72 Westmoreland Avenue
693 Pittwater Road
3 min
2.1 km
Manly Warringah Football Association
Cheeki Holdings Pty
Roland Corporation Australia
The Pittwater House Schools
Time and Tide
Dee Why Gardens
Dee Why Mosque
21 Grams
Dee Why RSL Car Wash
Dee Why Auto Clinic
Fisher Road School
Caltex Dee Why
ANZ ATM Dee Why Caltex
Dee Why Park
Dee Why Oval
Dee Why Public School
7-Eleven Dee Why
Dee Why RSL Club
Northern Beaches Council
Dee Why Library
Coles Dee Why
Chemist Warehouse Dee Why
Woolworths Dee Why
Asana Yoga & Pilates Dee Why
Sandbar
Dee Why Beach
Parkes Rd
Campbell Ave
Michele Rd
S Creek Rd
Westmoreland Ave
Norfolk Ave
Lincoln Ave
Couts Cres
Turner St
Evergreen Dr
Palara Pl
Surrey Ave
Cumberland Ave
Kalora Ave
Tarra Cres
Bruzzano Pl
Heron Pl
Lynwood Ave
Fisher Rd N
Stoddart Pl
Edna Pl
Fisher Rd
Lismore Ave
Tor Rd
Grafton Cres
Arthur St
Holborn Ave
Westminster Ave
Maranui Ave
Regent St
Kingsway
Clarence Ave
Richmond Ave
Avon Rd
Clyde Rd
Hogarth Ave
Francis St
St David Ave
Howard Ave
Dee Why Parade
A8

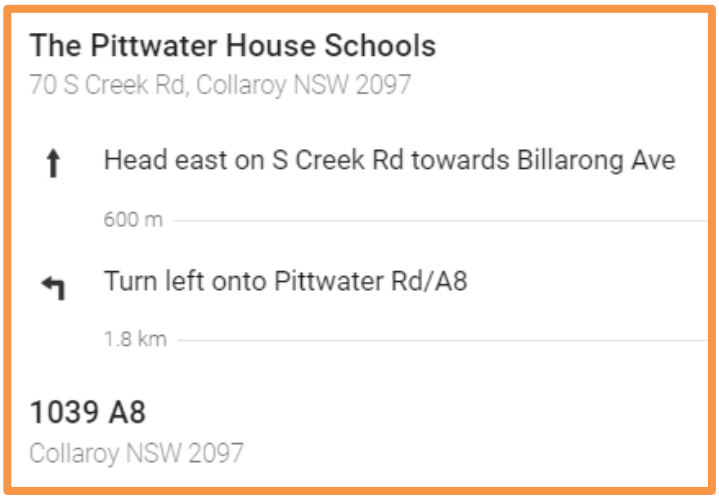
Egress:

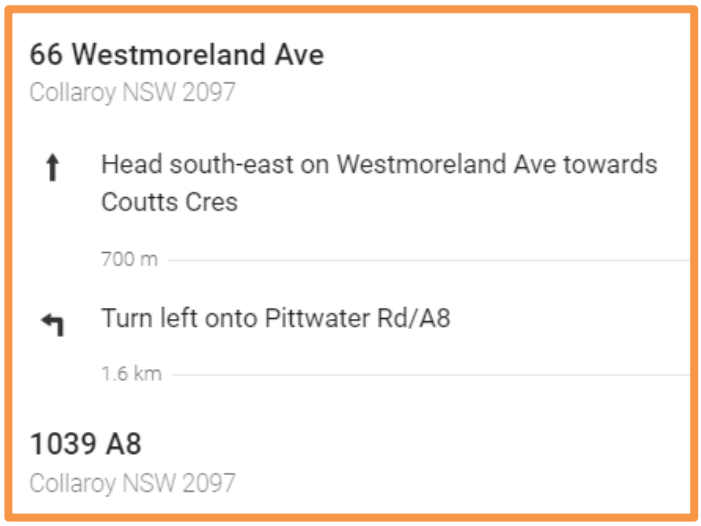
Exiting trucks will be loaded to their prescribed weight limits. All trucks will be covered by tarpaulin or like prior to exiting the site as required and will exit the site on the following basis:

Egress from the site will be from one of two locations – Southern end of South Creek Road or Southern end of Westmoreland Avenue as seen below.

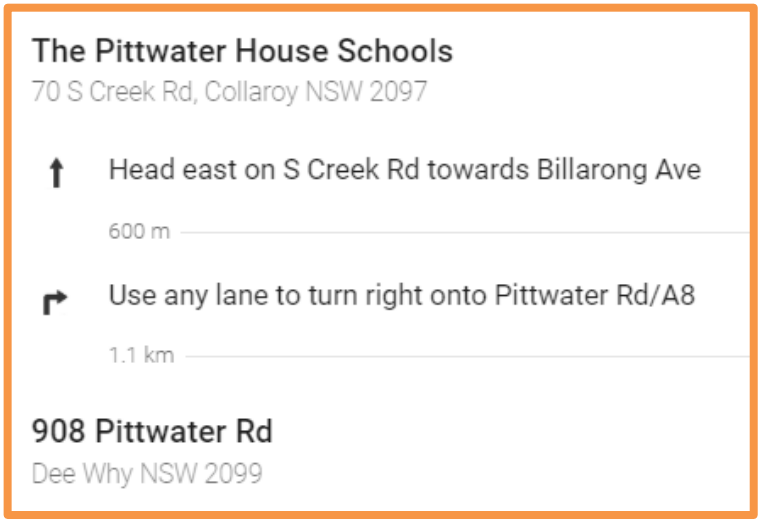
1. Vehicles will exit the site using caution and are to give way to pedestrians, cyclists or vehicles already on the road.
2. Vehicles exiting the site will follow either the Northern or Southern, egress routes below.
3. Vehicles exiting the site will do so as shown below moving in a forward direction.

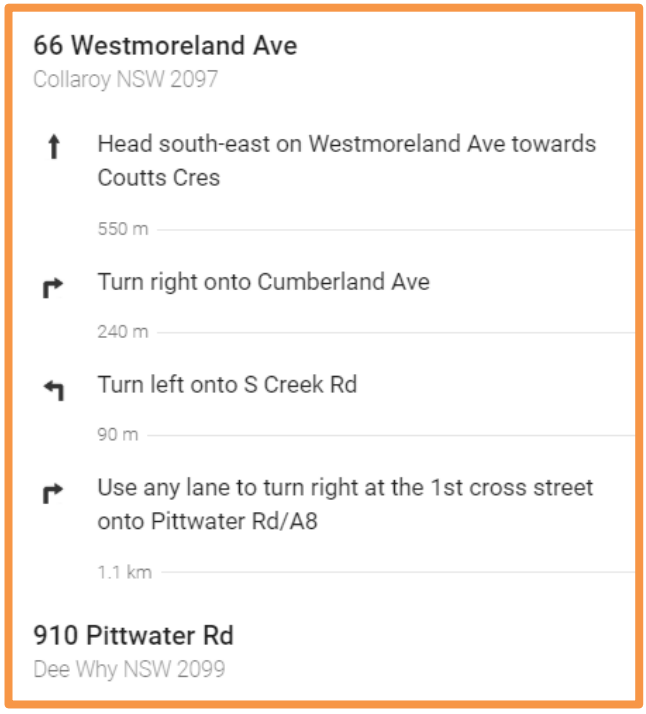
Northern Egress:



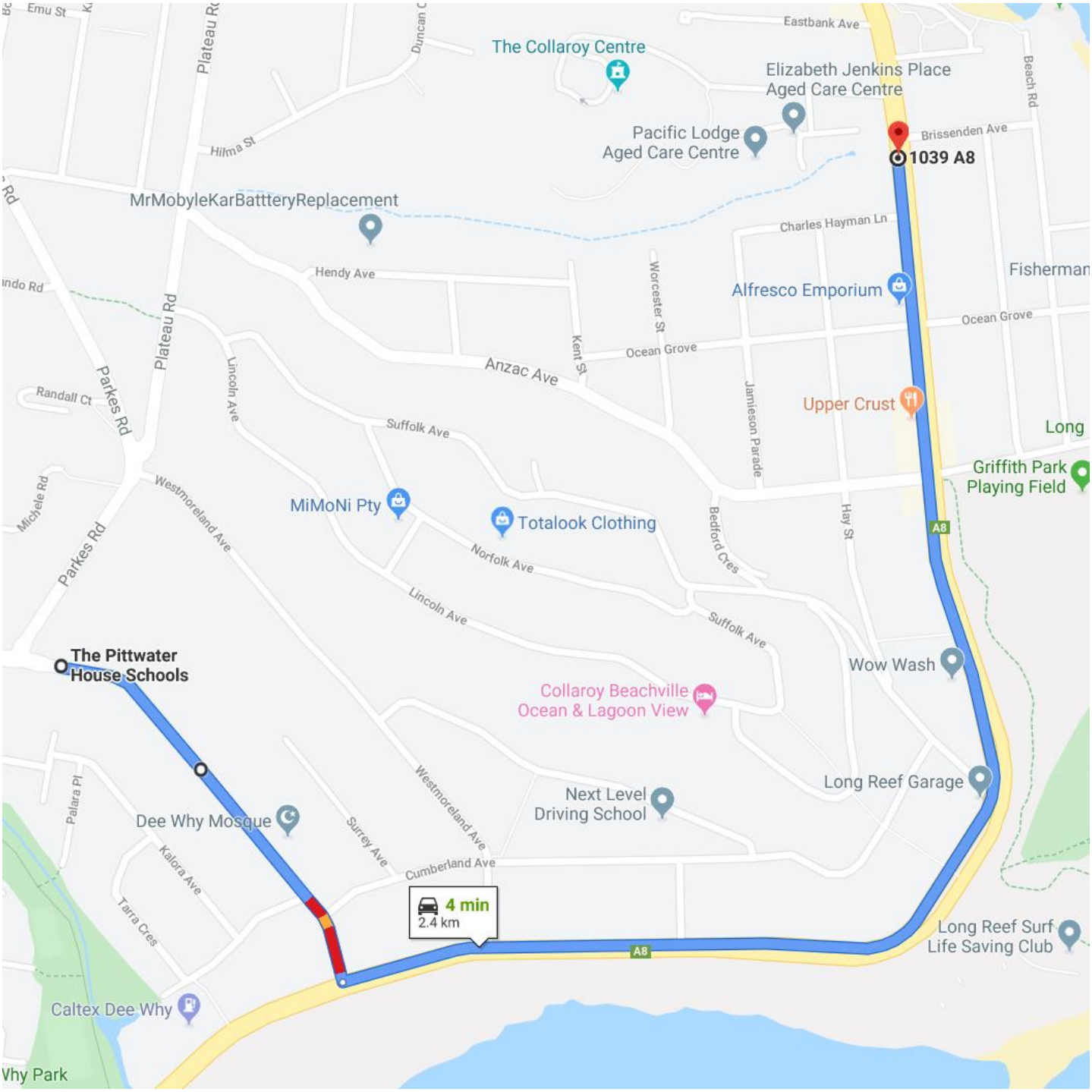


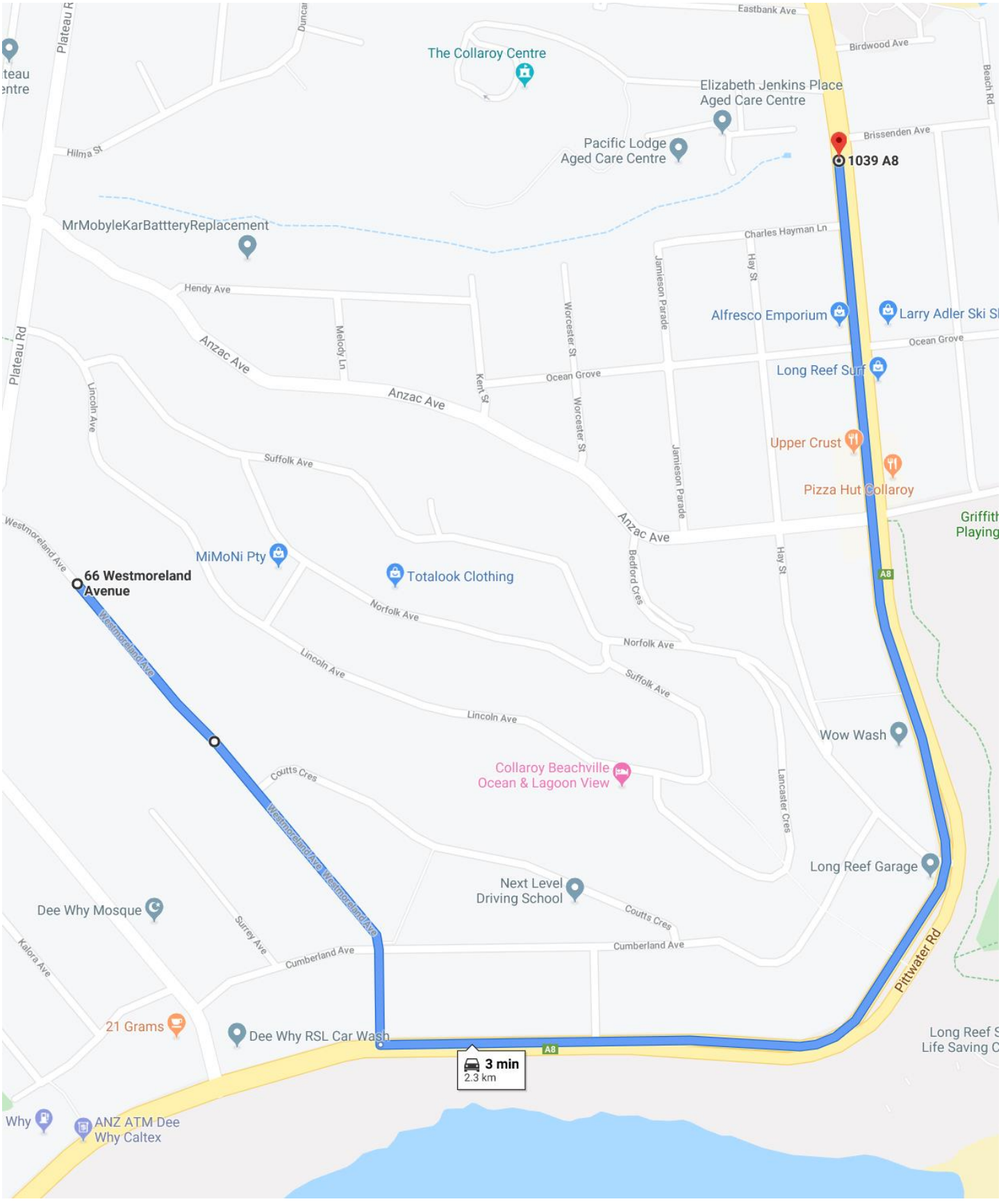
Southern Egress:



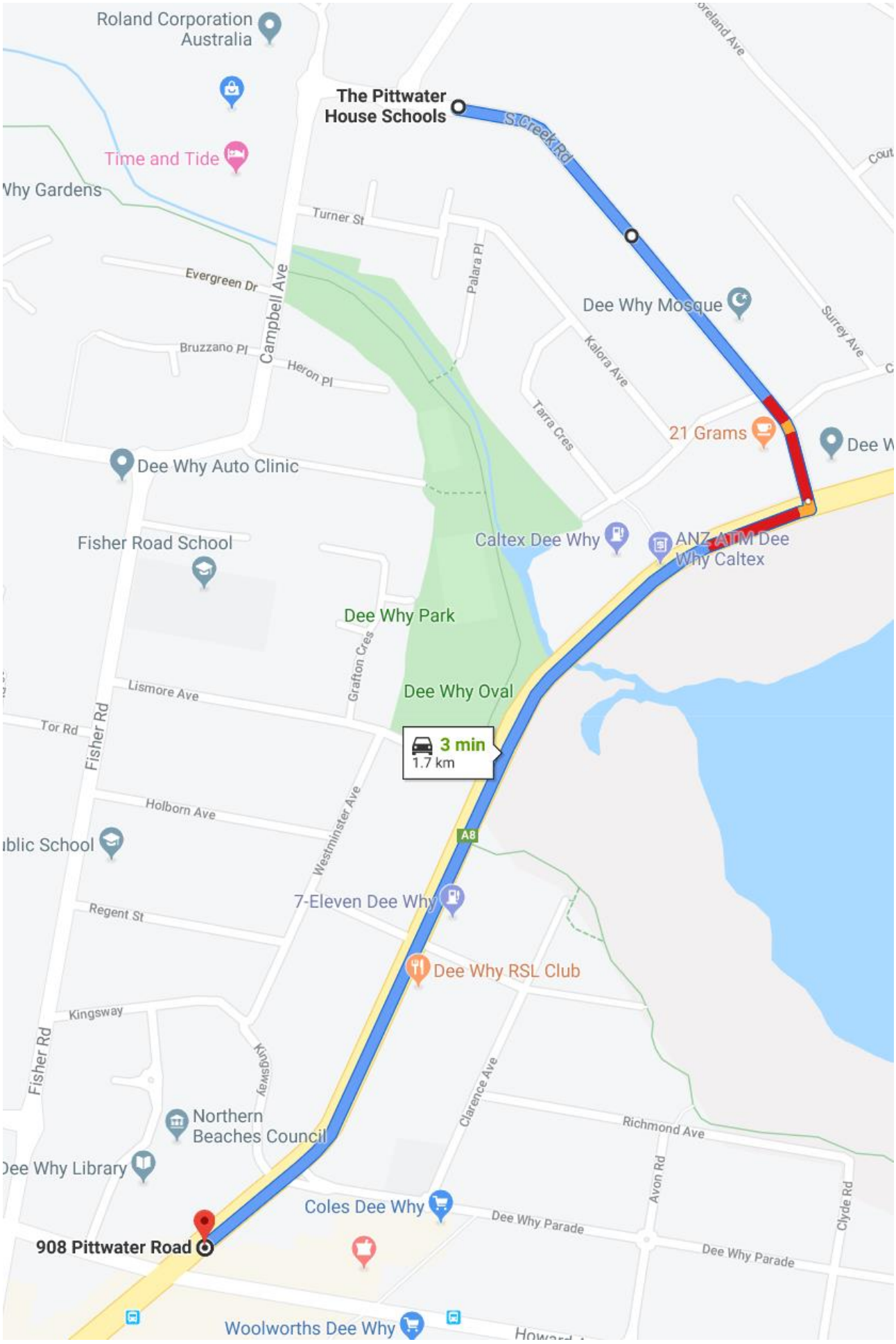


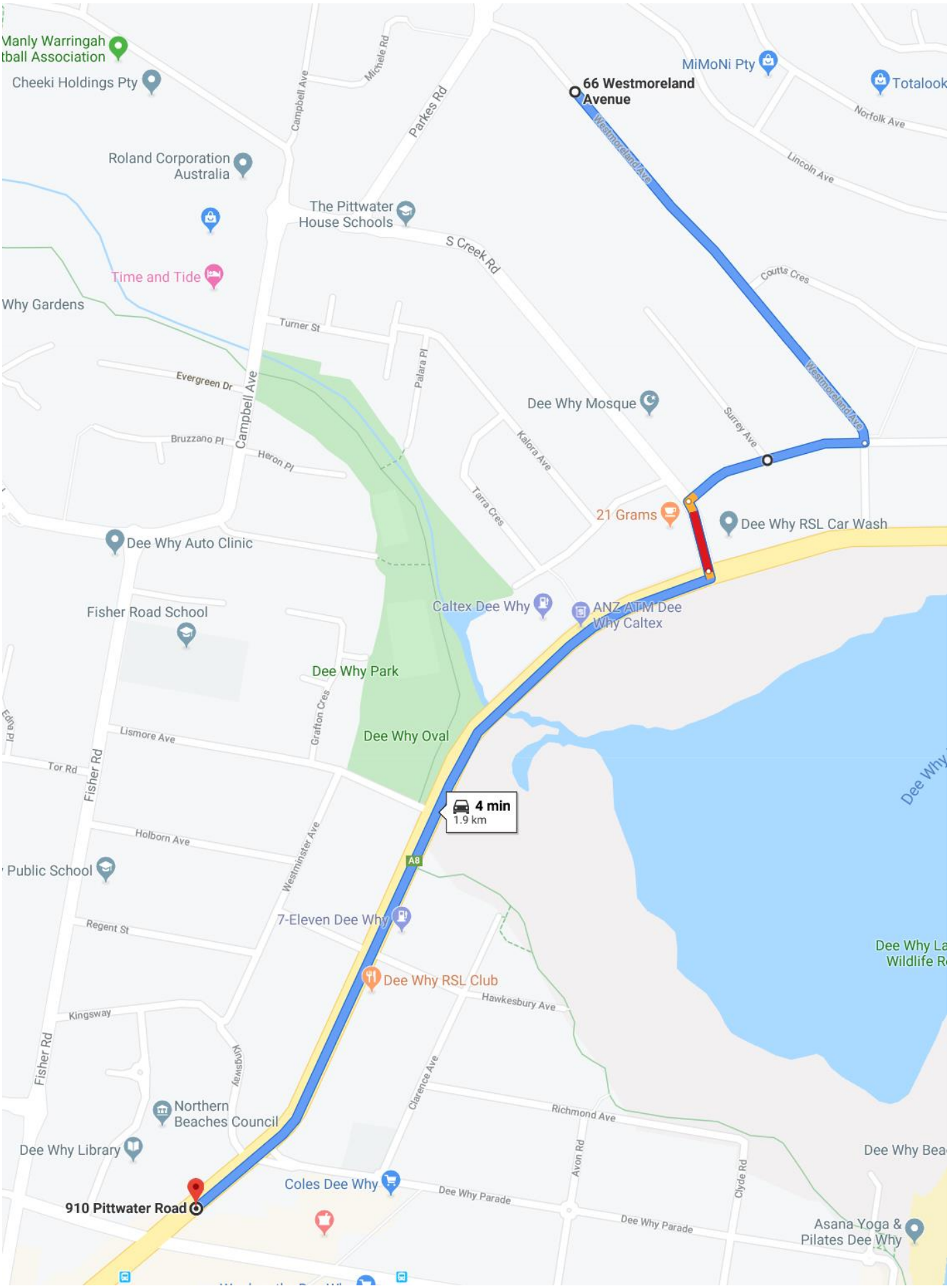
Northern Egress




The Collaroy Centre
Elizabeth Jenkins Place
Aged Care Centre
Pacific Lodge
Aged Care Centre
1039 A8
MrMobyleKarBattteryReplacement
Alfresco Emporium
Long Reef Surf
Upper Crust
Pizza Hut Collaroy
MiMoNi Pty
Totalook Clothing
66 Westmoreland
Avenue
Collaroy Beachville
Ocean & Lagoon View
Wow Wash
Long Reef Garage
Next Level
Driving School
Dee Why Mosque
21 Grams
Dee Why RSL Car Wash
3 min
2.3 km
ANZ ATM Dee
Why Caltex
Eastbank Ave
Birdwood Ave
Brissenden Ave
Charles Hayman Ln
Hilma St
Hendy Ave
Anzac Ave
Ocean Grove
Suffolk Ave
Norfolk Ave
Lincoln Ave
Coutts Cres
Cumberland Ave
Surrey Ave
Kalora Ave
Westmoreland Ave
Plateau Rd
Melody Ln
Kent St
Worcester St
Jamieson Parade
Hay St
Bedford Cres
Lancaster Cres
Pittwater Rd
A8

Southern Egress

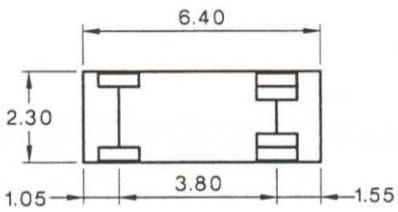



66 Westmoreland Avenue
910 Pittwater Road
4 min
1.9 km
Manly Warringah Netball Association
Cheeki Holdings Pty
Roland Corporation Australia
Time and Tide
Why Gardens
The Pittwater House Schools
MiMoNi Pty
Totalook
Norfolk Ave
Lincoln Ave
S Creek Rd
Coutts Cres
Westmoreland Ave
Turner St
Evergreen Dr
Bruzzano Pl
Heron Pl
Campbell Ave
Michele Rd
Parkes Rd
Palara Pl
Dee Why Mosque
Surrey Ave
Kalora Ave
Terra Cres
21 Grams
Dee Why RSL Car Wash
Dee Why Auto Clinic
Fisher Road School
Caltex Dee Why
ANZ ATM Dee Why Caltex
Dee Why Park
Dee Why Oval
Grafton Cres
Lismore Ave
Tor Rd
Fisher Rd
Holborn Ave
Westminster Ave
Public School
Regent St
7-Eleven Dee Why
Dee Why RSL Club
Hawkesbury Ave
Kingsway
Northern Beaches Council
Dee Why Library
Clarence Ave
Richmond Ave
Avon Rd
Clyde Rd
Coles Dee Why
Dee Why Parade
Asana Yoga & Pilates Dee Why
A8

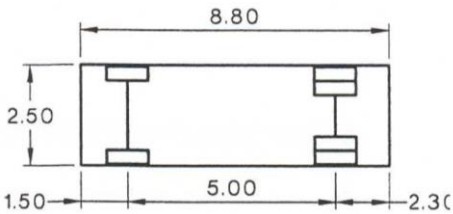
Transport Vehicles:

The Contractor® will have an active and ongoing involvement in the management and monitoring of works during the construction phase. They will ensure, as previously mentioned, that no vehicle will make deliveries outside Northern Beaches Council's approved DA times as well as that all delivery vehicles will arrive at pre-arranged times to the site. All vehicles approaching the work site will adhere to the road rules and observe any signage in place. At all times access to bike and footpaths will remain unobstructed and consultation with local residents will be ongoing.

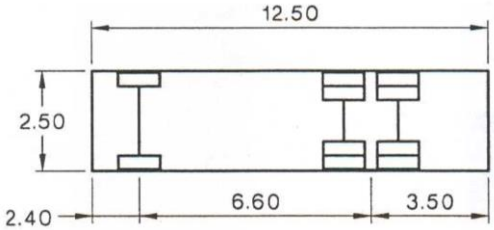
Loading and unloading of vehicles will be done onsite within the property boundaries. There will be a combination of small rigid vehicles (SRV's 6.4m), medium rigid vehicles (MRV's 8.8m) and Heavy Rigid Vehicles (HRV's 12.5m) accessing and egressing from the site. The largest vehicle accessing and egressing the site will be a HRV.



(a) Small rigid vehicle
Clearance height 3.50
Design turning radius 7.1



(b) Medium rigid vehicle
Clearance height 4.50
Design turning radius 10.0



(c) Heavy rigid vehicle
Clearance height 4.50
Design turning radius 12.5

Stage	Movements at peak	Range of vehicles during stage	Largest Vehicle
1	6-8/day	MRV, HRV	HRV
2	8-12/day	MRV, HRV	HRV
3	6-10/day	MRV, HRV	HRV
4	12-15/day	MRV, HRV	HRV
5	15-20/day	MRV, HRV	HRV

Tower Cranes and Mobile Cranes:

No tower cranes will be on site. Mobile cranes will be used onsite as required. Mobile crane will be contained wholly within the site.

Site Sheds, Removal and Storage of Rubbish or Spoil:

All waste/material will be collected on site in a position for easy access for both use on site and removal by trucks. As previously described, all removal trucks will have the load covered by tarpaulin or other means to secure the load.

Impacts and Management

Road/Lane Closures:

The proposed works will not require any road or lane closures.

Pedestrians and cyclists:

All works will take into consideration pedestrians and cyclists. Advanced warning signage will be in place to warn pedestrians of the entry and exiting of vehicles to and from the site.

Only authorised personnel will be permitted within the building site unless accompanied by site management (1.8m chain wire fencing will surround the perimeter), if not inducted to the site. Whilst within the confines of the building site, all personnel will attire in correct PPE to ensure that they are visible to moving traffic.

No change to the footpaths/bike paths will be made, pedestrians will follow the pathways as normal, likewise for cyclists. Certified traffic controllers will be on site during times of vehicular movements and heavy loading.

Public Transport:

The works will not impact the local public transport network.

Bus routes 158, 180, E80 run along Parkes Road approx. 50m from the site.

Parking:

Contractors will be encouraged to use public transport and carpool where possible. Facilities will be provided on site for contractors to store tools to reduce the need to bring vehicles to site each day to carry their tools. There will be limited parking onsite. Other parking will generally be on the surrounding streets. Average 8-15 employees onsite.

Emergency Vehicles:

Emergency services will not be affected by the proposed works. If the case, any emergency vehicle required for the site will be given priority and will enter from either end of either end of South Creek Road or either end of Westmoreland Avenue.

Access to Properties and Noise:

The works will not affect access to properties, using pre-arranged arrival times will help to control disturbance (with the required ongoing consultation with residents). Regarding noise impacts The Contractor® will keep all noise associated with the works to a minimum. Likewise, no noise will be made outside the approved hours for the site.

Tree Protection:

There are Tree protection zones indicated on this site (Please see separate aborist report for details).

Environmental:

A range of measures will be in place to manage and minimise any possible impact on the environment in regards to dust control and air emissions. Such measures will include, but not limited to:

- Containment and removal of any hazardous material in accordance with EPA regulations.
- Inclusion of wash down bays or shaker rams.
- Regular cleaning of streets.
- Erosion and Sediment control to perimeter and access road.
- Wheel wash facilities for all vehicles entering and exiting the site.
- Speed limits will be reduced on site to reduces dust and exhaust emissions.
- Monitoring of air emissions throughout the construction process similarly, noise pollution will be minimised through a range of measures such as:
    - Control of noise at source where practicable (e.g. using screenings, shielding).
    - Use of noise suppression covers when plant and machinery in operation.
    - Use of electrically powered plant where possible.
    - Where possible, noisy plant equipment will be kept away from sensitive noise boundaries or alternatively within enclosures.
- Stockpiling of sand, soil and other material shall be stored clear of any drainage line or easement, tree protection zone, water bodies, footpath, kerb or road surface.

Traffic Control Plan (TCP)

A TCP is defined in the RMS's TCWS Manual version 5 as a diagram showing signs and devices arranged to warn traffic and guide it around, past or, if necessary through a work site or temporary hazard. The proposed TCP is located in Appendix B.

Objectives:

The provision of a save environment for road users and works staff is a key objective of The Contractor®. The TCP was developed with the aim to:

- Warn drivers of changes to the usual road conditions.
- Inform drivers about changed conditions.
- Guide drivers through the work site.
- Ensure the safety for workers, motorists, pedestrians and cyclists.

Context:

The TCP's prepared were based on the principles and measured outlined in this CTMP, which details the road safety and traffic principles, strategies and measure that will be applied to enable The Contractor® to fulfil its obligations and the requirements of relevant authorities.

The TCP's were designed to address the following issues where applicable:

- Use of traffic control devices.
- Speed limit requirements.
- Provision of pedestrian traffic and their safety.
- Provision for cyclists and their safety.
- Provision for vehicle and plant movements.
- Parking restrictions and parking facilities.
- Provision for trade vehicles and plant movements.
- Informing all site personnel of any high-risk areas.
- Providing adequate signage within the construction site for access and egress.

Traffic Controllers:

Only certified traffic controllers will undertake this activity. The placement of signs will be done so by a qualified Yellow Card Holders as per the Australian Standards 1742.

TCP Monitoring and Reporting:

Specific measures for TCP reporting will be taken. These will include, but not be limited to the following:

- The traffic control plan will be numbered and a register maintained as a part of the CTMP.
- All traffic control devices and traffic control arrangements will be inspected daily to ensure the adequacy of such devices and arrangements as per the TCWS Manual Version 5.
- Traffic management records and plans will be maintained as well as record/log.
- The Contractor® may be required to provide records in the following event instances:
    - That a breach imposed by the NSW Police Service, on a motorist who does not comply with a regulatory sign is challenged in courts or,
    - In the event of an accident is alleged to have occurred when temporary traffic control is in place.

Credentials:

The TCP was prepared by Dwayne Perera, RMS Prepare a Work Zone Traffic Management Plan Number 0037667321.

Traffic Control Signs and Devices:

Traffic control devices are an important tool for influencing the safety of road users, in particular where temporary traffic controls are implemented at work sites. During the construction of this project The Contractor® will assess the warrant for traffic control devices in accordance with the relevant guides/standards such as: RMS's – TCWS Manual Version 5, Australian Standard – AS1742 Manual of uniform traffic control devices, and any relevant documents listed on the 'RMS Guide to Signs and Marketing reference list' to make sure that all the traffic control devices are installed and maintained correctly.

The provision of timely, clear and consistent messages to road users is essential. The Contractor® will ensure all signs and devices installed during the construction of this project are:

- Assessed for use in accordance with the appropriate warrants.
- Manufactured in accordance with the requirements of the Australian Standards.
- Installed in accordance with the relevant guides and standards.
- Not contradictory to existing signs or markings.
- When unwarranted, covered or removed.
- Regularly maintained and repaired/replaced when damaged.

All signposting installed throughout the project will comply with the requirements outlined in the RMS's TCWS Manual Version 5, AUSTROADS Guide to Traffic Engineering Practice, Part 8 – Traffic Control Devices and the Relevant parts of Australian Standard 1742.

Appendix A TCP:

Date: 22/10/19 **Author:** Gemini Perera **Project:** 70 South Creek Road, Collaroy
Client: Neeson Murcutt Architects **Contact:** Kirsty Hetherington **Phone:** 02 8203 1870

Comments:

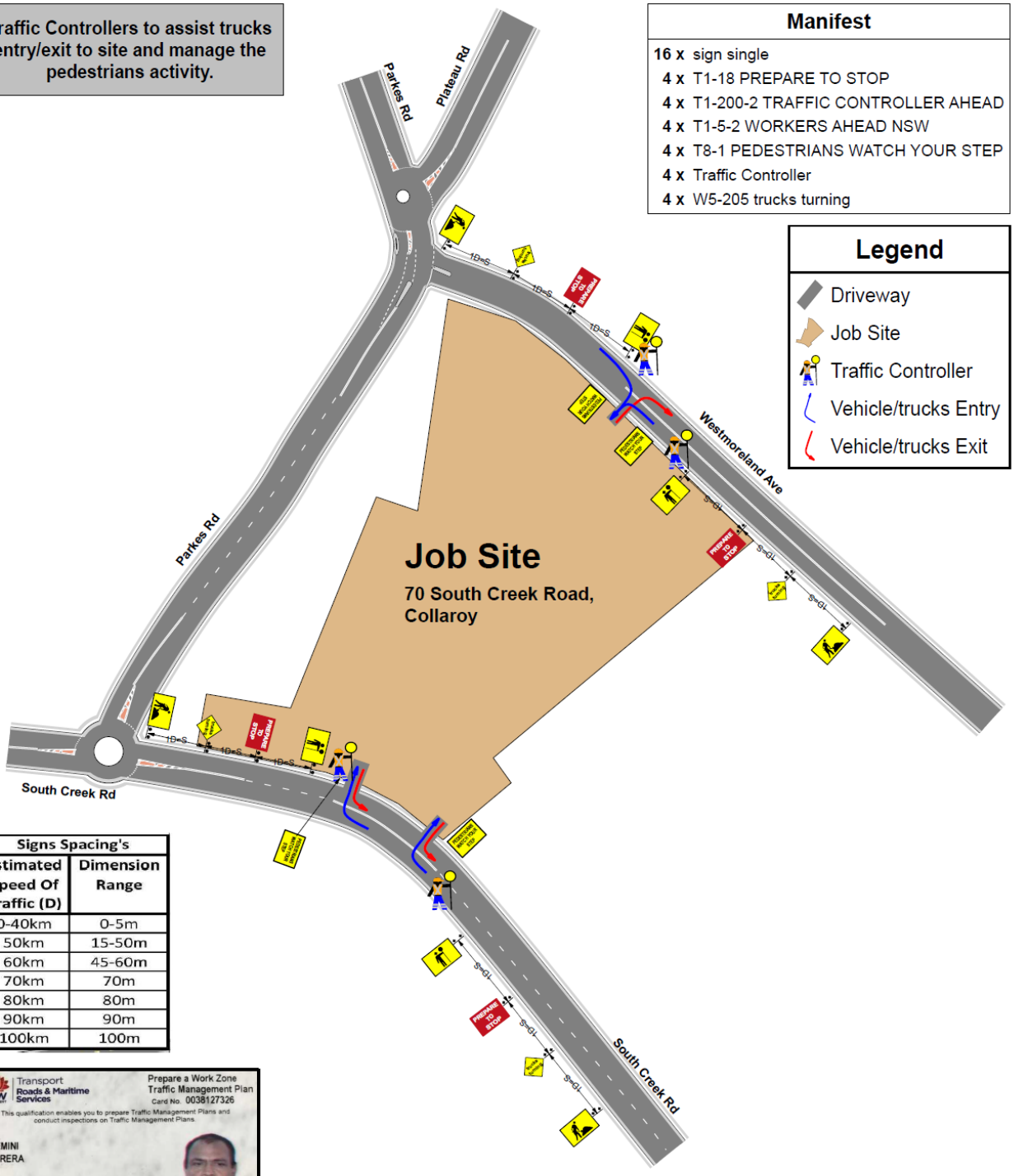
This plan was designed by Gemini Perera of Jims Traffic Control-Hornsby in accordance with Australian Standards and the RMS's Traffic Control on Worksite Handbook Version 4.0. The plan is designed for the safe access and egress of construction vehicles to and from 70 South Creek Road, Collaroy. Certified Traffic Controllers will be on site to implement and monitor this TCP. If you have any question please contact Gemini Perera of Jims Traffic Control-Hornsby on 0400 350 182

Traffic Controllers to assist trucks entry/exit to site and manage the pedestrians activity.

Manifest	
16 x	sign single
4 x	T1-18 PREPARE TO STOP
4 x	T1-200-2 TRAFFIC CONTROLLER AHEAD
4 x	T1-5-2 WORKERS AHEAD NSW
4 x	T8-1 PEDESTRIANS WATCH YOUR STEP
4 x	Traffic Controller
4 x	W5-205 trucks turning

Legend

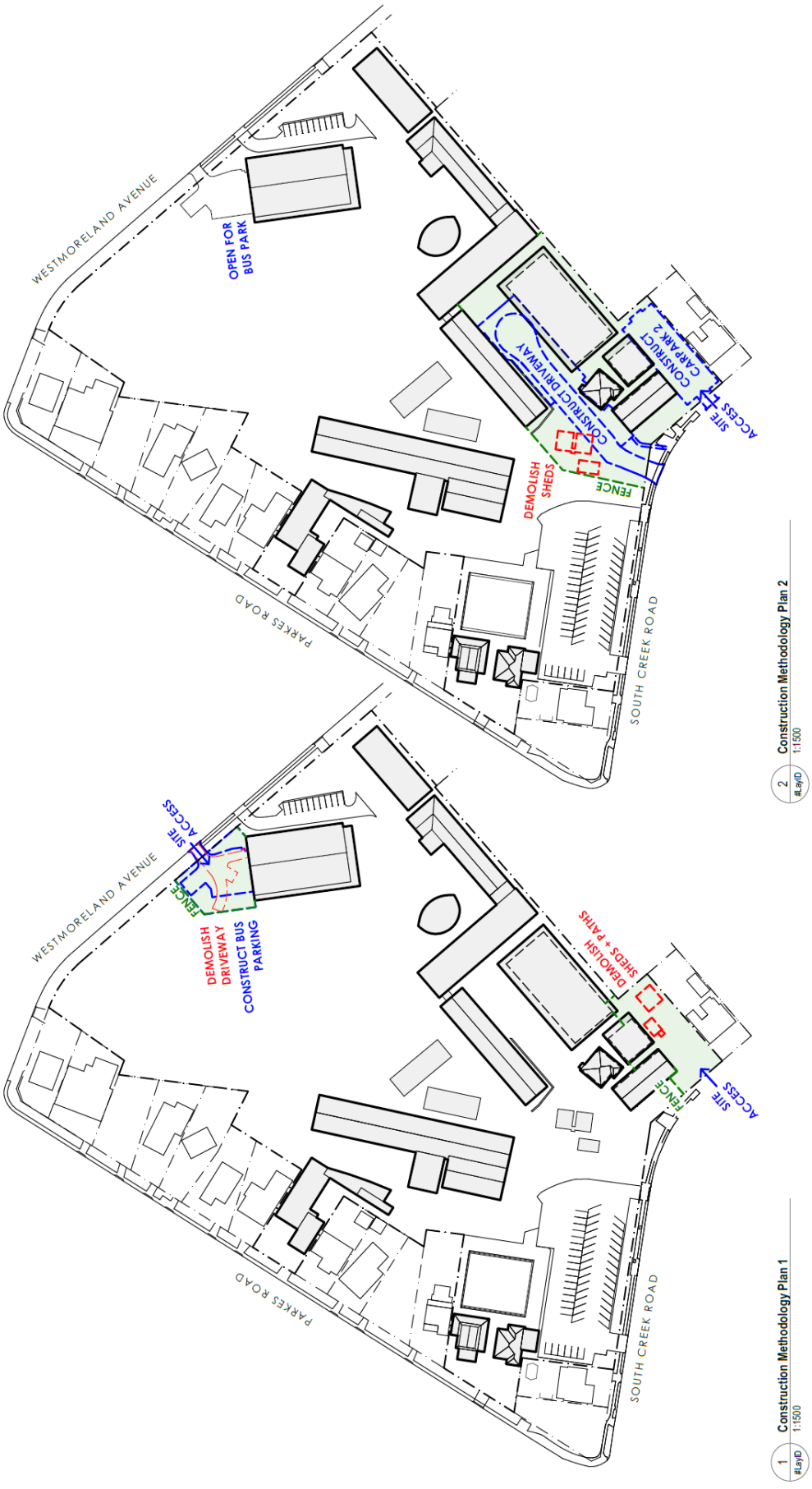
- Driveway
- Job Site
- Traffic Controller
- Vehicle/trucks Entry
- Vehicle/trucks Exit



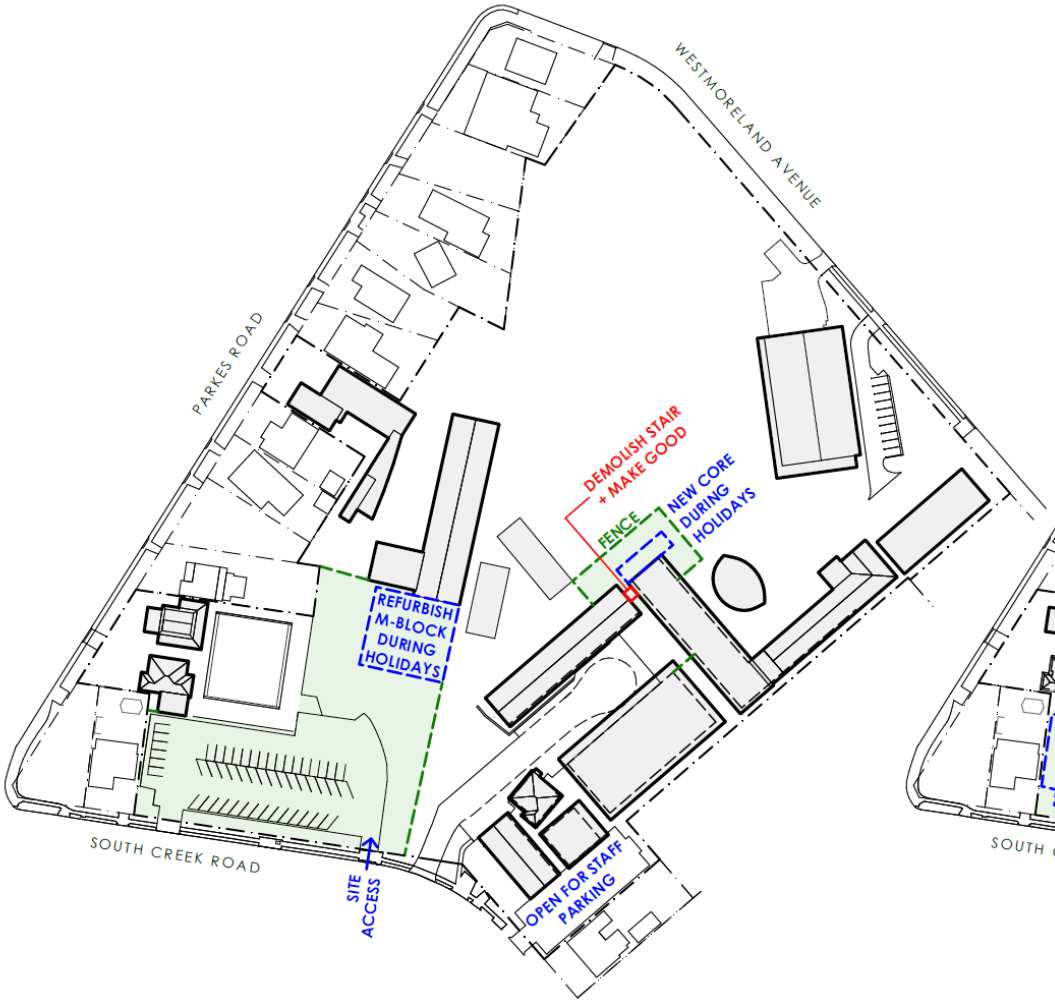
Signs Spacing's	
Estimated Speed Of Traffic (D)	**Dimension Range**
0-40km	0-5m
50km	15-50m
60km	45-60m
70km	70m
80km	80m
90km	90m
100km	100m

PLAN NOT TO SCALE

Appendix B Site Schematics:

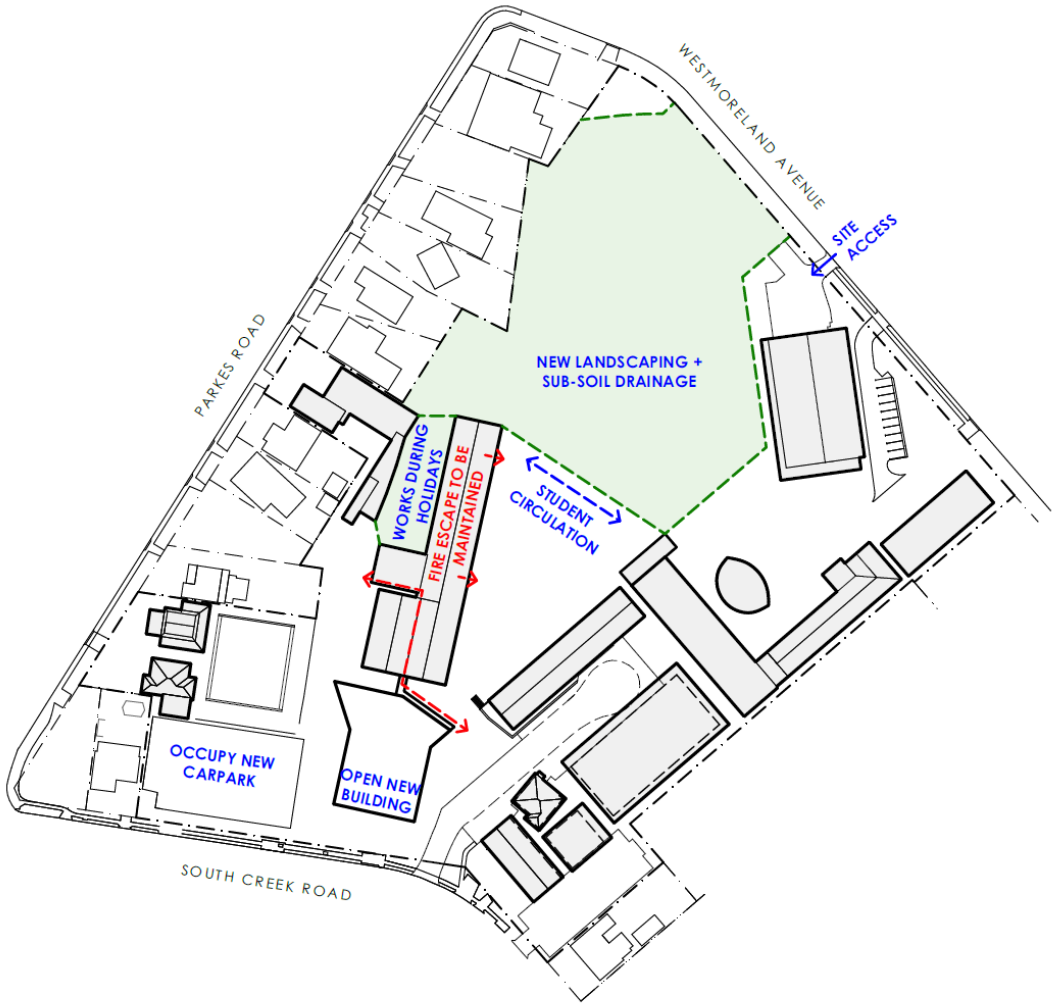


SCHOOL HOLIDAY WORKS



1 #LayID **Construction Methodology Plan 3**
1:1500

2 #LayID **Construction Methodology Plan 4**
1:1500



1 #LayID **Construction Methodology Plan 5**
1:1500

Appendix C RMS Road Limits and Special Signage:

5

LIGHT TRAFFIC ROADS

You must not use any road with a load limit sign if the total weight of your vehicle is the same as, or heavier than, the weight shown on the sign.

You may use a light traffic road when that road is your destination for a pick-up or delivery and there is no alternative route.

LOAD LIMIT SIGN

You must not drive past a BRIDGE LOAD LIMIT (GROSS MASS) sign or GROSS LOAD LIMIT sign if the total of the gross mass (in tonnes) of your vehicle, and any vehicle connected to it, is more than the gross mass indicated in the sign.

NO TRUCKS SIGN

Drivers of long or heavy vehicles except buses must not drive past a NO TRUCK sign unless the vehicle is equal to or less than the mass or length specified on the sign.

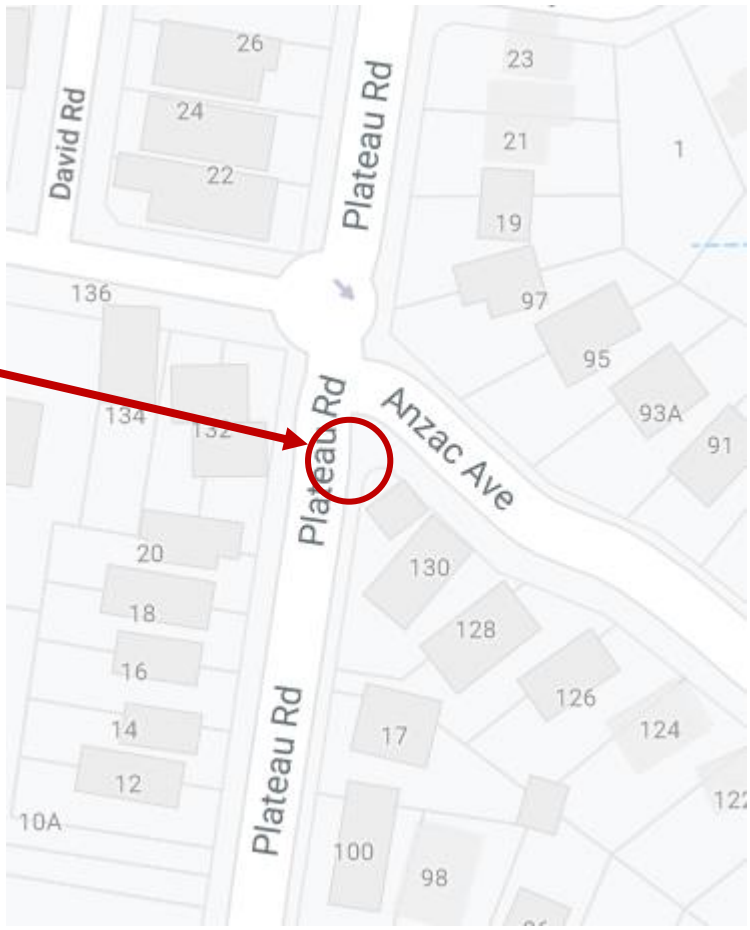
When the sign does not provide detailed information, no truck (ie GVM greater than 4.5 tonnes) is permitted to drive past the sign, unless the drivers' destination lies beyond the sign and it is the only route.

TRUCKS MUST ENTER SIGN

Heavy vehicle drivers must enter the area indicated by information on or with this sign.

WHERE HEAVY VEHICLES CAN STAND OR PARK

Heavy vehicles (GVM of 4.5 tonnes or more) or long vehicles (7.5 metres long or longer) must not stop on a length of road outside a built up area, except on the shoulder of the road. In a built up area they must not stop on a length of road for longer than one hour (buses excepted). For more information on where vehicles can stand or park, refer to the Road Users' Handbook.


David Rd
Plateau Rd
Anzac Ave
Plateau Rd
Plateau Rd
26
24
22
23
21
19
1
97
95
93A
91
136
134
132
130
128
126
124
122
20
18
16
14
12
10A
17
100
98