

**WAHROONGAH ADVENTIST  
SCHOOL  
FOX VALLEY ROAD, WAHROONGA**

***Workplace Travel Plan &  
Transport Access Guide***

February 2015  
(Rev A)

Reference 11161

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## **AIM**

The broader context of a this Workplace Travel Plan/ Travel Access Guide is to reduce carbon emission, reduce the impact of noise and air pollution and encourage healthy lifestyles by both the proposed development and its inhabitants through the provision of sustainable transport alternatives. The development will be managed and improved to encourage cycling, walking, car share facilities and public transport by offering incentives and providing greater ease of use to its occupants.

Specifically, the objectives of the Workplace Travel Plan are to:

- A. establish the existing travel access options.
- B. Increase the use of public transport services by facilitating, informing and encouraging.
- C. Increase travel by walking and cycling by facilitating and encouraging.
- D. Increase car pooling.
- E. Inform users of future aim/objectives of the plan

## **EXISTING SITE**

The Estate is located just to the south of the convergence of major road routes comprising the Pacific Highway, Pennant Hills Road and the F3 Sydney – Newcastle Freeway. The expansive Lane Cove National Park extends to the south along the Lane Cove River, while the immediate adjoining areas largely comprise single residential dwellings.

The existing elements of the Estate comprise:

- |                             |                      |
|-----------------------------|----------------------|
| * Sydney Adventist Hospital | * student hostel     |
| * churches                  | * lodge and hostel   |
| * SDA administration        | * aged accommodation |
| * school                    |                      |

The existing school site which has vehicle access on Fox Valley Road.

235 Students (Preparatory to Year 6)  
20 Staff

## **PROPOSED DEVELOPMENT**

The initial relocation process has been undertaken with installation of 2 demountable classroom buildings on the southern part of the new site to accommodate some students and staff.

The proposed staged development works for the new educational establishment will comprise:

### **Stage 1 - Middle School**

Excavation of the central part of the site to provide a basement parking and Set down/Pick up (SD/PU) facility. This four level school element will be constructed above the basement and vehicle access will be along the north-west edge of the site with a temporary access road to the future access road.

The existing demountable buildings together with Stage 1 (Preparatory to Year 8) will comprise:

456 Students

30 Teachers

There will be 39 parking spaces and 4 SD/PU spaces (plus queuing area) provided in the basement level.

### **Stage 2 - Playing Area**

This area will be constructed on the western part of the separate Lot 2 located on the northern side of the future access road.

### **Stage 3 - Junior School (East)**

Excavation of the northern part of the site to extend the basement parking and SD/PU area. This three-level school element will be constructed above the basement and vehicle access will comprise connection to portion of the new access road on the northern side of the site connecting to Fox Valley Road.

With the existing demountable buildings, Stages 1, 2 and 3 (Preparatory to Year 12) the school will comprise:

679 Students (60 Year 12)  
48 Staff

There will be 77 parking spaces and 4 SD/PU spaces (plus queuing area) provided at the basement level. The proposed new traffic signal controlled intersection on Fox Valley Road is required to be operational prior to the occupation of Stage 3.

#### **Stage 4 – Stores, Amenities and PE Courts**

This will involve construction of a new pavilion and playing courts on the eastern parts of the separate Lot 2.

#### **Stage 5 - Junior School (West)**

This will involve construction of a new wing to the Junior School with associated outdoor play space.

#### **Stage 6 - Senior School**

Removal of the existing demountable buildings and excavation of the southern part of the site to extend the basement parking and SD/PU area. This four level school element will be constructed above the basement accessed through the Stage 3 connection to the new access road. With Stage 6 the school will comprise:

800 Students (90 Year 12)  
57 Staff

There will be a total of 124 parking spaces and 7 SD/PU spaces (plus queuing area) provided at the basement level.

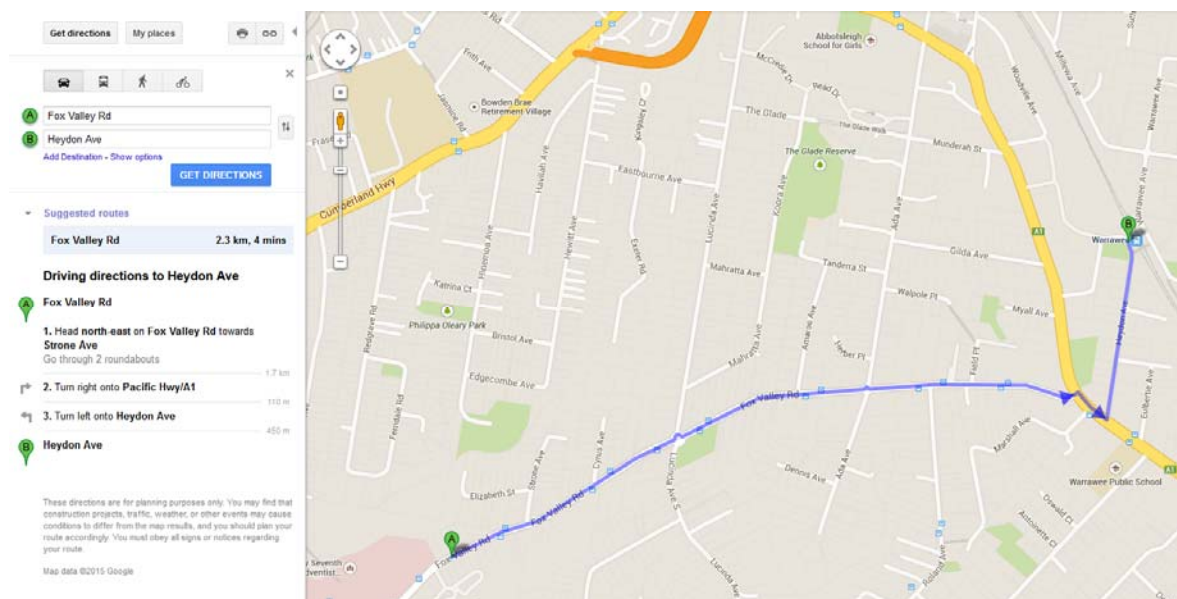
## WORKPLACE TRAVEL PLAN

The location of the proposed development and its proximity/accessibility to public transport and sustainable travel alternatives would reduce reliance on use of private vehicles and therefore subsequently lower demand of on-site car parking.

The following public transport/cycle/pedestrian links are currently available in close proximity to the site:

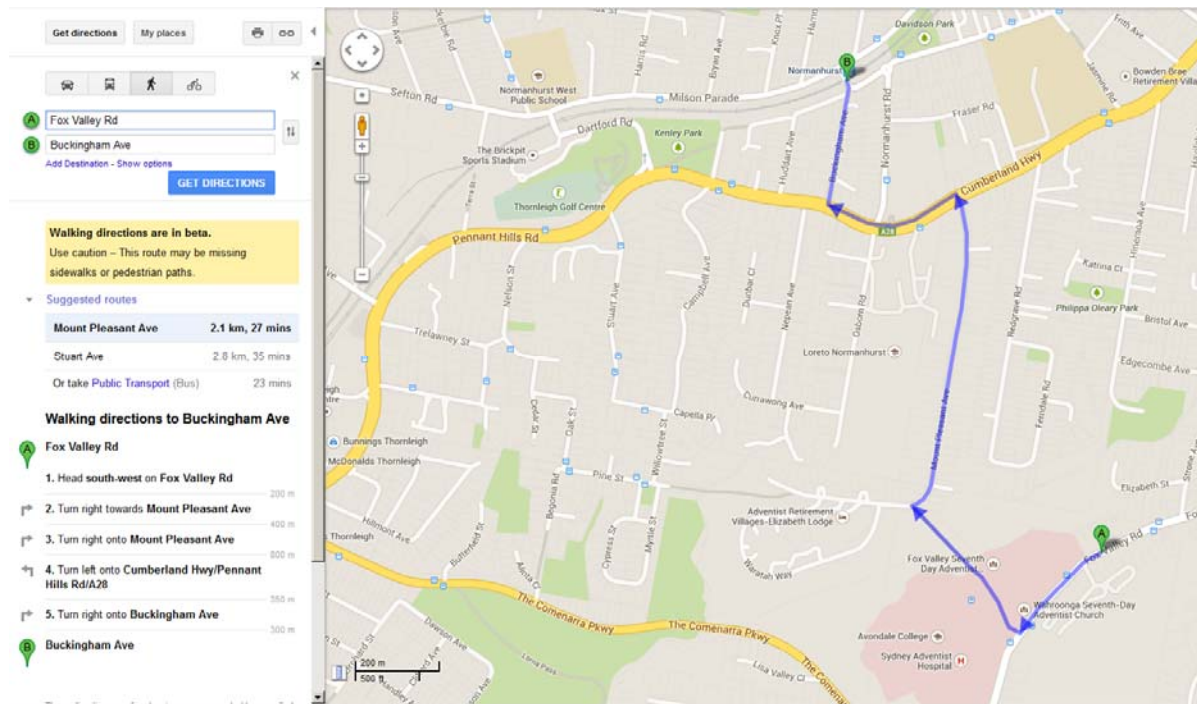
### Train (T1 North Shore Line)

Warrawee Railway Station is located some 2.3 km to the east (i.e a 30 minute walking distance) via Fox Valley Road as depicted in Figure 1.



**Figure 1 Warrawee Railway Station**

Normanhurst Railway Station is located some 2.1 km to the north (i.e a 27 minute walking distance) via a dedicated walkway, Mount Pleasant Avenue and Normanhurst Road, as depicted in Figure 2.



**Figure 2 Normanhurst Railway Station**

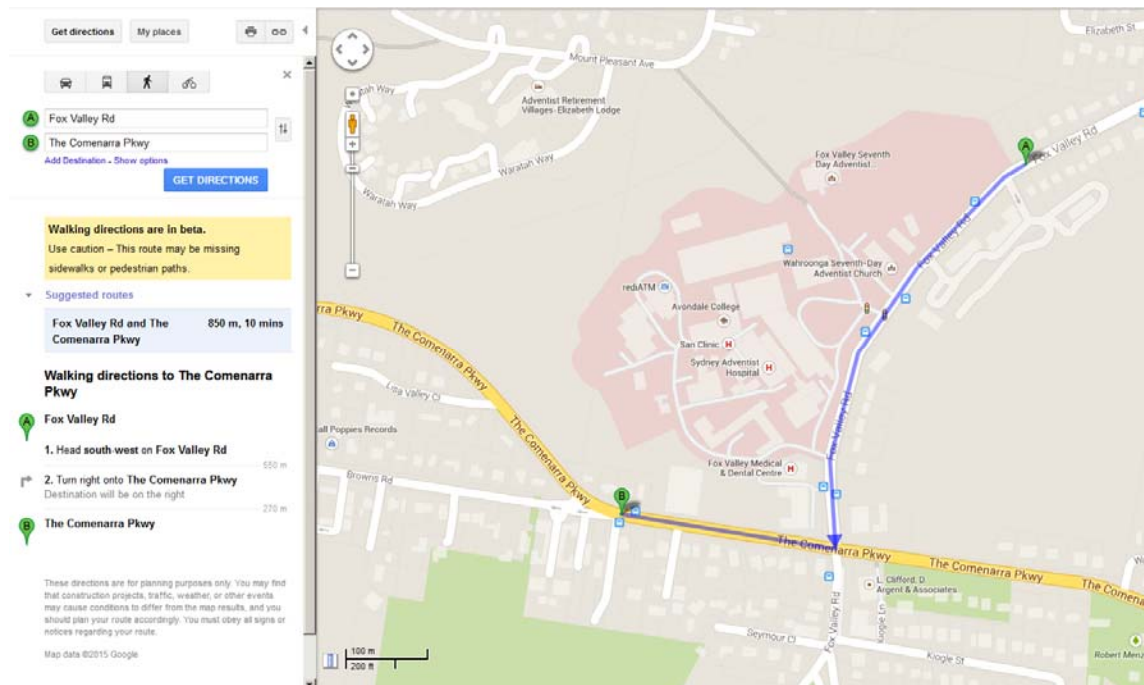
The T1 North Shore line provides a 15 minute frequency service during the AM and PM peak periods and 25 minutes outside of peak periods connecting between Turramurra and Hornsby, as well as its connection into the wider metropolitan rail network. Details of the metropolitan rail network map are provided in Appendix A of the plan.

*Note - While the site is situated within convenient distances from the two railway stations, a general understanding is that pedestrians (commuters) are acceptant up to 800 metres (i.e 10 minute walk). In this instance, the railway stations are located outside of the desired catchment and therefore complemented by the available connecting bus services (to the stations) to further encourage uptake of rail services.*

## Bus

The school is serviced moderately well by existing bus services. Local bus services are provided by Shorelink Bus Services connecting with the aforementioned rail stations.

Bus Route no. 573 runs immediately in front of the site connecting between Turramurra and Fox Valley. Bus Route nos. 589 is also within close walking distance some 850 metres (10 minute walk) to the south along Fox Valley Road as depicted below:



These services operate on a high frequency basis and details of the bus routes and timetables are provided in Appendix B, and summarised as follows:

### Route 573

Turramurra to South Turramurra via Fox Valley Road (Service every 15-25 minutes)

Mon – Fri 6:15am to 8:30pm

Sat 9:02am to 6:02pm

Sun 10:02am to 6:02pm



South Turrumurra to Turrumurra via Fox Valley Road (Service every 15-25 minutes)

Mon – Fri 6:08am to 8:23pm

Sat 8:56am to 5:56pm

Sun 9:56am to 5:56pm

### **Route 589**

Mon – Fri 6:55am to 5:42pm

Hourly service connecting between Hornsby and the adjoining Sydney Adventist Hospital via Normanhurst and Thornleigh

Sheltered areas are provided at nearby bus stops and accessible via OPAL card however real time travel information is not yet available for these routes.

### **Pedestrians and Cyclists**

Pedestrian linkage at and surrounding the site includes both sides of Fox Valley Road, southern side of the Comenarra Parkway and the eastern side of Lucinda Avenue. Within the Sydney Adventist Hospital compound there is also a dedicated sealed footpath leading northwards providing access to Mount Pleasant Avenue and Normanhurst Station. Signalised pedestrian crossing facilities are provided at the various traffic signal controlled intersections along Fox Valley Road.

Formal cycling infrastructures in the vicinity of the site are currently limited and reliant on carriageway along Fox Valley Road connecting to the Pacific Highway to the east. Comenarra Parkway also provide partly sufficient verge for cyclists further west.

### **Car Sharing/ Carpool**

Car Sharing is not widely practised however is gaining popularity in high density workplaces similar to the nature of this development. The School will be undertaking further staff/employees travel surveys and interviews as part of the overall implementation of the Workplace Travel Plan to formalise an internal car sharing

scheme. It is anticipated that incentives such as the provision of conveniently located car space for car sharing participant and/or lower cost of onsite parking thus resulting in lower commuting costs amongst employees/staff. Details of the scheme will be informed by the staff travel surveys and reflected in the updated Workplace Travel Plan.

## **Car Travel**

The site has existing vehicular connection to the surrounding oad network via Fox Valley Road and Pacific Highway (east) or Comenarra Parkway (west). There will be 124 on site car parking spaces access via Fox Valley Road.

## **Taxi**

The following Taxi companies operate across the Sydney Metropolitan area:

Premier Cabs – phone 13 10 17

Taxis Combined – phone 133 300

Legion Cabs – phone 13 14 51

## **Travel Access Guide**

An existing Travel Access Guide informed by the currently available transport services are provided in Appendix C. It is expected that the Guide would be updated annually to reflect implementations of the Workplace Travel Plan's objectives.

## **COMMITMENT**

The primary target for the development concerned is reduced car ownership and to support alternative travel methods. As the Workplace Travel Plan functions to offset the necessity of car ownership, the outcomes may therefore be measured by occupant behaviour and management's ongoing commitment.

Future provisions to support the development of the Plan include:

- ✓ The published Travel Access Guide is to be provided and updated annually for staff members/employees. In addition to information about other sustainable design initiatives and facilities in the building, the guide will include information about Transport Facilities: car parking facilities and provision of cyclist facilities, conditions of access and appropriate use; also local public transport information, maps and timetables and details or links on alternative methods of transport to and from the building, such as the car share scheme.
- ✓ Parking provisions in future development will encourage reduction of parking to reduce reliance on private vehicles.
- ✓ Of the total parking spaces for the site a minimum of 10% of the parking spaces will be labelled for smaller vehicles and 5% will be designed and labelled for mopeds/and or motorbikes in accordance with AS/NZS 2890.1:2004. Reduced parking on site is most effective at reducing car ownership where parking restrictions exist locally so people won't simply park on street thereby reducing public parking capacity.
- ✓ Bicycle parking will be provided consistent with AS2890.3 Code as cycle infrastructures are being implemented. Visitor parking will be clearly signed and available adjacent to the entrance. End of trip shower and bathrooms will be provided for staff/employees.
- ✓ A dedicated car share bay to be located so it is visible and accessible by the public and building occupants.

- ✓ The design and layout of more efficient wayfinding signage to allowing improved accessibility and permeability through the site.

## PROGRESS AND EVALUATION

This Work Place Travel Plan has been prepared to support the further development of the school campus and the resultant increased travel to/from the site by staff, students and visitors.

This Work Place Travel Plan will be implemented over 2 years and progress/ change will be evaluated by repeat survey/findings and audit at the conclusion of 2<sup>nd</sup> year and 4<sup>th</sup> year.

	Completed By
A. <u>Accurately Establish the Existing Travel Modes</u>	
* Set up a Travel Smart Working Group.	2017
* Undertake an audit of all elements of the school population to identify the detail existing travel modes	2017
* Undertake a questionnaire survey to establish the reasons for the existing mode choices and what measures could achieve a change to a more sustainable travel mode outcome	2017
* Establish the origins by post code of the existing school population.	2017
B. <u>Increase the Use of Public Transport Services by Facilitating, Informing and Encouraging</u>	
* Develop a Travel Access Guide	✓
* Update the Travel Access Guide every 12 months	Ongoing
* Assess the results of the questionnaire survey to collate views as to how the use of public transport services can be increased	2017
* Utilise notice boards to display the Travel Access Guide and promotions in relation to public transport use	2017

* Provide information in regard to public transport services to new staff in their orientation kits	2017
* Investigate the feasibility of upgrading the bus stops (eg shelter, lighting, paving, security etc).	2018
* Monitor the use of the available bus services	Ongoing
* Investigate the feasibility of increasing bus frequencies and incentives for staff to use public transport service	2018
* Install, in the main administrative foyer, a 'free charge' direct line phone connecting with the local taxi operator.	2018
<b>C. <u>Increase Travel by Walking and Cycling Bay Facilitating and Encouraging</u></b>	
* Review existing end of trip facilities in regard to need to upgrade/expand	2017
* Review site access and internal circulation facilities having regard for overall precinct planning and development	2017
* Provide bike racks for visitors	2017
* Promote National Walk to Work Day, National Ride to Work Day and NSW Bicycle Week	2017
* Assess the results of the questionnaire survey to collate views as to how travel by walking and cycling could be encouraged and facilitated	2017
* Audit existing footways to ensure adequate maintenance, safety and security	2018
<b>D. <u>Increase Travel by Car Pooling</u></b>	
* Assess the results of the questionnaire survey to collate views as to how the use of car pooling might be increased	2017

- |  |      |
|--|------|
| * Prioritise conveniently located parking spaces for car pool vehicles   | 2018 |
| * Investigate setting up a car pool data base expanding on the existing car pooling system   | 2018 |
| * Consider provision of further incentives for car pooling staff including guaranteed 'ride home' for staff who may be 'stranded'. | 2018 |

# APPENDIX A

## SYDNEY TRAINS NETWORK MAP

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# Sydney Trains Network



It's easy to plan your trip



**On the web**  
transportnsw.info



**On your mobile device**  
Download a trip planning app  
at transportnsw.info/apps

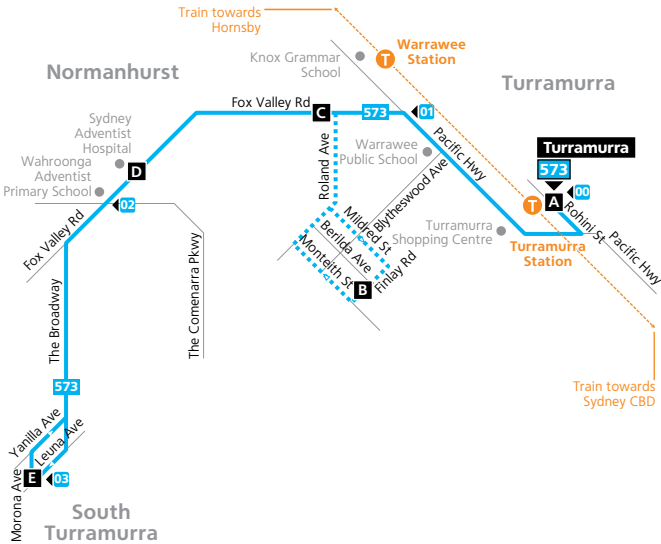


**Questions and feedback**  
Phone 131 500  
TTY 1800 637 500

## **APPENDIX B**

### **LOCAL BUS ROUTES**

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Legend

- Bus route
- 573 Bus route number
- A Timing point
- T Train line/station



Diagrammatic Map  
Not to Scale



Monday to Friday												
map ref	Route Number	573	573	573	573	573	573	573	573	573	573	573
<b>A</b>	Turramurra Station Rohini Street	05:56	06:11	06:26	06:41	06:56	...	07:30	08:05	08:47	09:50	10:48
<b>B</b>	Warrawee Valley Finlay Road	...	...	...	...	...	...	...	...	...	...	...
<b>C</b>	Roland Avenue & Fox Valley Road	06:02	06:17	06:32	06:48	07:07	07:26	07:36	08:15	08:51	09:54	10:52
<b>D</b>	SAN Sydney Adventist Hospital	06:05	06:20	06:35	06:51	07:10	07:29	07:39	08:18	08:54	09:57	10:55
<b>E</b>	Fox Valley Leuna Avenue	06:09	06:24	06:39	06:55	07:14	07:33	...	...	08:58	10:01	10:59
<b>D</b>	SAN Sydney Adventist Hospital	06:12	06:27	06:42	06:59	07:17	07:36	...	...	09:01	10:04	11:02
<b>C</b>	Roland Avenue & Fox Valley Road	06:15	06:30	06:45	07:02	07:22	07:39	...	...	09:04	10:07	11:05
<b>B</b>	Warrawee Valley Finlay Road	06:18	06:33	06:48	07:05	07:25	07:43	...	...	09:07	...	11:08
<b>A</b>	Turramurra Station Rohini Street	06:28	06:43	06:58	07:17	07:34	07:55	...	...	09:16	10:17	11:17

Monday to Friday (continued...)												
map ref	Route Number	573	573	573	573	573	573	573	573	573	573	573
<b>A</b>	Turramurra Station Rohini Street	11:50	12:42	13:42	14:42	15:44	16:26	16:53	17:24	17:43	18:17	18:39
<b>B</b>	Warrawee Valley Finlay Road	...	12:47	...	14:47	15:51	16:33	17:00	17:31	...	18:24	18:46
<b>C</b>	Roland Avenue & Fox Valley Road	11:54	12:50	13:47	14:50	15:54	16:36	17:03	17:34	17:48	18:27	18:49
<b>D</b>	SAN Sydney Adventist Hospital	11:57	12:53	13:49	14:53	15:57	16:39	17:06	17:37	17:51	18:30	18:52
<b>E</b>	Fox Valley Leuna Avenue	12:01	12:57	13:54	14:57	16:01	16:43	17:10	17:41	17:55	18:34	18:56
<b>D</b>	SAN Sydney Adventist Hospital	12:04	13:00	13:57	15:00	16:05	16:47	17:14	17:45	17:59	18:38	19:00
<b>C</b>	Roland Avenue & Fox Valley Road	12:07	13:03	14:00	15:06	16:08	16:50	17:17	17:48	18:02	18:41	19:03
<b>B</b>	Warrawee Valley Finlay Road	...	...	...	...	...	...	...	...	...	...	...
<b>A</b>	Turramurra Station Rohini Street	12:17	13:13	14:10	15:13	16:18	17:00	17:27	17:58	18:12	18:51	19:13








## Monday to Friday

## Fox Valley loop

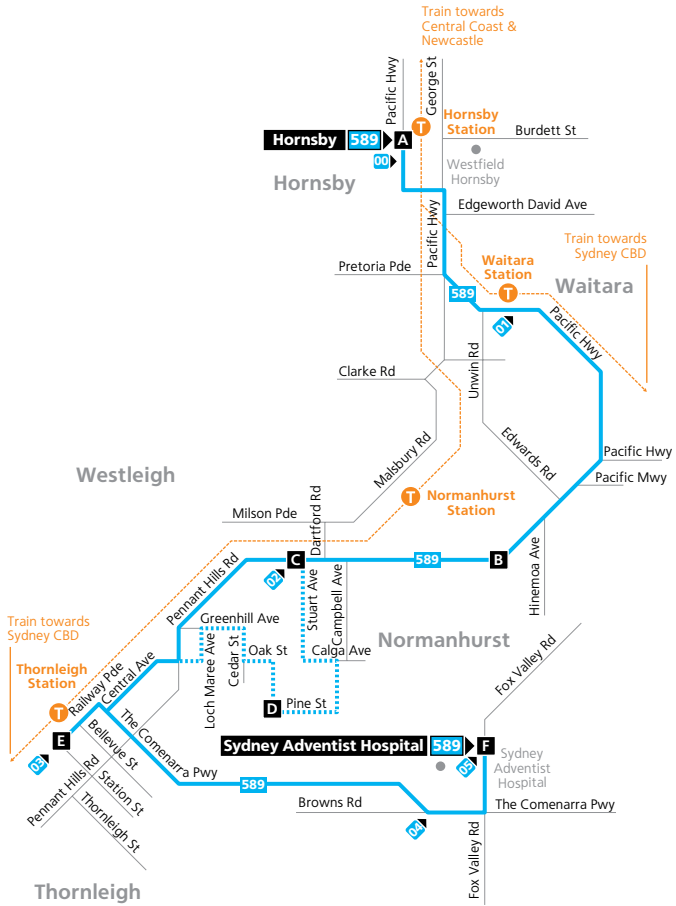
### Monday to Friday (continued...)

map ref	Route Number	573	573	573
<b>A</b>	Turramurra Station Rohini Street	18:57	19:30	20:12
<b>B</b>	Warrawee Valley Finlay Road	...	19:37	20:19
<b>C</b>	Roland Avenue & Fox Valley Road	19:02	19:40	20:22
<b>D</b>	SAN Sydney Adventist Hospital	19:05	19:43	20:25
<b>E</b>	Fox Valley Leuna Avenue	19:09	19:46	20:28
<b>D</b>	SAN Sydney Adventist Hospital	19:13	19:50	20:32
<b>C</b>	Roland Avenue & Fox Valley Road	19:16	19:53	20:35
<b>B</b>	Warrawee Valley Finlay Road	...	...	...
<b>A</b>	Turramurra Station Rohini Street	19:24	20:03	20:45

Saturday											
map ref	Route Number	573	573	573	573	573	573	573	573	573	573
<b>A</b>	Turramurra Station Rohini Street	08:50	09:50	10:50	11:50	12:50	13:50	14:50	15:50	16:50	17:50
<b>C</b>	Roland Avenue & Fox Valley Road	08:54	09:54	10:54	11:54	12:54	13:54	14:54	15:54	16:54	17:54
<b>D</b>	SAN Sydney Adventist Hospital	08:56	09:56	10:56	11:56	12:56	13:56	14:56	15:56	16:56	17:56
<b>E</b>	Fox Valley Leuna Avenue	08:59	09:59	10:59	11:59	12:59	13:59	14:59	15:59	16:59	17:59
<b>D</b>	SAN Sydney Adventist Hospital	09:02	10:02	11:02	12:02	13:02	14:02	15:02	16:02	17:02	18:02
<b>C</b>	Roland Avenue & Fox Valley Road	09:05	10:05	11:05	12:05	13:05	14:05	15:05	16:05	17:05	18:05
<b>A</b>	Turramurra Station Rohini Street	09:10	10:10	11:10	12:10	13:10	14:10	15:10	16:10	17:10	18:10

Sunday & Public Holidays						
map ref	Route Number	573	573	573	573	573
A	Turramurra Station Rohini Street	09:50	11:50	13:50	15:50	17:50
C	Roland Avenue & Fox Valley Road	09:54	11:54	13:54	15:54	17:54
D	SAN Sydney Adventist Hospital	09:56	11:56	13:56	15:56	17:56
E	Fox Valley Leuna Avenue	09:59	11:59	13:59	15:59	17:59
D	SAN Sydney Adventist Hospital	10:02	12:02	14:02	16:02	18:02
C	Roland Avenue & Fox Valley Road	10:05	12:05	14:05	16:05	18:05
A	Turramurra Station Rohini Street	10:10	12:10	14:10	16:10	18:10














Legend

- Bus route
- 589 Bus route number
- A Timing point
- 04 Section point
- T Train line/station

Diagrammatic Map  
Not to Scale



Monday to Friday												
map ref	Route Number	589	589	589	589	589	589	589	589	589	589	589
<b>A</b>	<b>Hornsby Station</b> Interchange Stand A	06:30	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30
<b>B</b>	<b>Normanhurst Boys High School</b>	06:39	07:39	08:39	09:39	10:39	11:39	12:39	13:39	14:39	15:39	16:39
<b>C</b>	Pennant Hills Road & Stuart Avenue	06:41	07:41	08:41	09:41	10:41	11:41	12:41	13:41	14:41	15:41	16:41
<b>D</b>	<b>Woodlands Estate</b> Oak Street	...	...	...	...	...	...	12:43	...	...	15:43	...
<b>E</b>	<b>Thornleigh Station</b> Bellevue St & Railway Pde	06:46	07:46	08:46	09:46	10:46	11:46	12:47	13:46	14:46	15:47	16:46
<b>F</b>	<b>SAN Sydney Adventist Hospital</b>	06:55	07:55	08:55	09:55	10:55	11:55	12:57	13:55	14:55	15:57	16:55

Monday to Friday (continued...)			
map ref	Route Number	589	589
<b>A</b>	Hornsby Station Interchange Stand A	17:30	18:30
<b>B</b>	Normanhurst Boys High School	17:39	18:39
<b>C</b>	Pennant Hills Road & Stuart Avenue	17:41	18:41
<b>D</b>	Woodlands Estate Oak Street	17:43	...
<b>E</b>	Thornleigh Station Bellevue St & Railway Pde	17:47	18:46
<b>F</b>	SAN Sydney Adventist Hospital	17:57	18:55



Saturday






## Hornsby to Sydney Adventist Hospital

Saturday						
map ref	Route Number	589	589	589	589	589
<b>A</b>	Hornsby Station Interchange Stand A	09:15	11:15	12:45	14:15	16:15
<b>B</b>	Normanhurst Boys High School	09:24	11:24	12:54	14:24	16:24
<b>C</b>	Pennant Hills Road & Stuart Avenue	09:26	11:26	12:56	14:26	16:26
<b>D</b>	Woodlands Estate Oak Street	09:28	11:28	12:58	14:28	16:28
<b>E</b>	Thornleigh Station Bellevue St & Railway Pde	09:32	11:32	13:02	14:32	16:32
<b>F</b>	SAN Sydney Adventist Hospital	09:42	11:42	13:12	14:42	16:42

Monday to Friday													
map ref	Route Number	589	589	589	589	589	589	589	589	589	589	589	589
F	SAN Sydney Adventist Hospital	07:00	...	08:00	...	...	09:00	10:00	11:00	12:00	13:00	14:00	15:00
E	Thornleigh Station Bellevue St & Railway Pde	07:10	W07:52	08:10	...	S08:31	09:08	10:10	11:10	12:10	13:10	14:10	15:10
D	Woodlands Estate Oak Street	...	07:57	...	...	08:36	09:11	...	...	...	...	...	...
C	Pennant Hills Road & Stuart Avenue	07:14	08:02	08:14	...	J08:41	09:13	10:14	11:14	12:14	13:14	14:14	15:14
B	Normanhurst Boys High School	07:17	Y08:04	08:17	N08:46	J08:49	09:20	10:17	11:17	12:17	13:17	14:17	15:17
A	Hornsby Station Interchange Stand A	07:25	08:17	08:25	08:58	09:06	09:27	10:25	11:25	12:25	13:25	14:25	15:25

## Monday to Friday (continued...)

map ref	Route Number	589	589	589	589
<b>F</b>	<b>SAN Sydney Adventist Hospital</b>	16:00	17:00	18:00	19:00
<b>E</b>	<b>Thornleigh Station</b> Bellevue St & Railway Pde	16:10	17:10	18:10	19:10
<b>D</b>	<b>Woodlands Estate</b> Oak Street	...	...	...	...
<b>C</b>	<b>Pennant Hills Road &amp; Stuart Avenue</b>	16:14	17:14	18:14	19:14
<b>B</b>	<b>Normanhurst Boys High School</b>	16:17	17:17	18:17	19:17
<b>A</b>	<b>Hornsby Station</b> Interchange Stand A	16:25	17:25	18:25	19:25

Saturday						
map ref	Route Number	589	589	589	589	589
<b>F</b>	<b>SAN Sydney Adventist Hospital</b>	9:45	11:45	13:15	14:45	16:45
<b>E</b>	<b>Thornleigh Station</b> Bellevue St & Railway Pde	9:53	11:53	13:23	14:53	16:53
<b>D</b>	<b>Woodlands Estate</b> Oak Street	9:56	11:56	13:26	14:56	16:56
<b>C</b>	<b>Pennant Hills Road</b> & Stuart Avenue	9:58	11:58	13:28	14:58	16:58
<b>B</b>	<b>Normanhurst Boys High School</b>	10:05	12:05	13:35	15:05	17:05
<b>A</b>	<b>Hornsby Station</b> Interchange Stand A	10:12	12:12	13:42	15:12	17:12

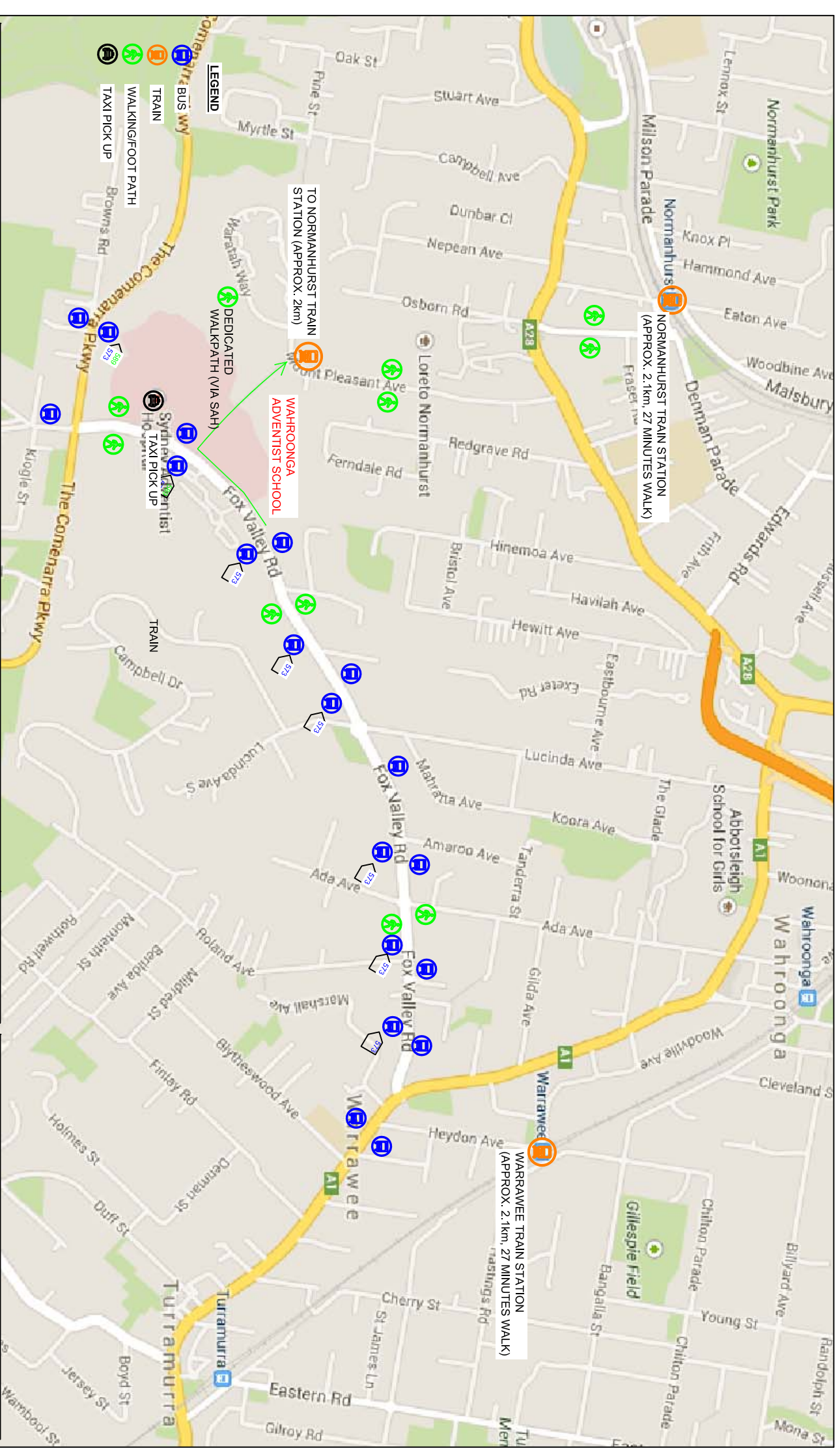
## **APPENDIX C**

### **TRAVEL ACCESS GUIDE**

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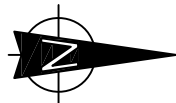
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LEGEND

- BUS
- TRAIN
- WALKING/FOOT PATH
- TAXI PICK UP



TRANSPORT ACCESS  
GUIDE