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7-9 Belinda Place & 217 Great Western Highway, **Mays Hills** 

**Proposed Multi-Storey Carpark** 

**Traffic and Parking Impact Assessment** 

16019 Ref:

Date: August 2020

Issue: B

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# 1.0 Introduction

This report has been prepared for The Saiva Manram Board (TSM) to accompany a Development Application (DA) to Cumberland Council for the construction of a 5-storey carpark for the existing Temple use on a site at 7-9 Belinda Place and 217 Great Western Highway (GWH), Mays Hill (Figure 1).

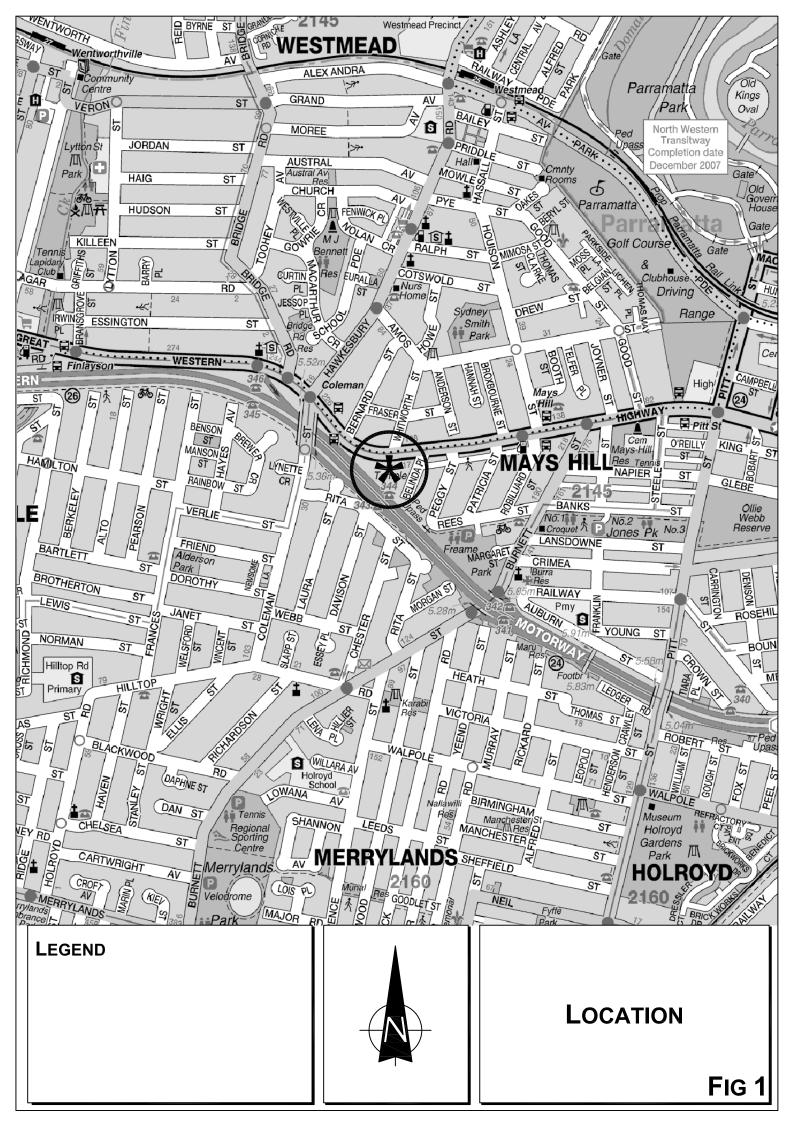
The Saiva and Hindu populations in the Sydney Metropolitan Area are concentrated in the Cumberland Council area with the number of persons born in India or Sri Lanka residing in this area has increased substantially, having tripled in number over the 10 years between 2006 (6,626 persons) and 2016 (18,147 persons).

The Sydney Murugan Temple was first established in 1995 when the existing Cultural Hall was constructed for use as the Temple. Subsequently, in 1999, a new Temple was completed, according to Saiva Agamas and inaugurated.

The proposed multi-storey carpark is to:

- Provide enhanced on-site parking capacity to accommodate the significant onstreet parking which occurs as a result of the current Temple and Cultural Hall use, including the occasional special events
- Reduce the impact on the surrounding residential streets and maintain the availability of on-street parking spaces for the residential, retail and commercial uses, including the future intensification in the vicinity of the GWH and within the walking catchment of the Liverpool Parramatta T-way
- Improve road safety by minimising pedestrian crossing movements and vehicular conflicts as a result of the current on-street parking activities
- Reduce unnecessary traffic congestion at times of peak parking demand on the GWH and the local roads as a result of visitors circulating to find parking.

As there will be no change to or intensification of the current Temple and Cultural Hall uses on the site, the level of traffic activity associated with the proposed multi-storey carpark will not be entirely new (additional). This is because the traffic associated with the existing Temple activities already occurs on the surrounding roads, including the GWH, due to the on-street parking activities. Specifically, the proposed carpark will



result in a redistribution of the existing traffic movements within the immediate road network.

The purpose of this report is to:

- describe the site, the existing uses and the proposed multi-storey carpark
- describe the road network serving the site and the prevailing traffic conditions
- assess the adequacy of the proposed parking provision
- assess the potential traffic implications
- assess the suitability of the proposed vehicle access, internal circulation and servicing arrangements

Response to Council's Request for Information (RFI) in relation to Item 1 (Non-concurrence from Transport for NSW (former Roads & Maritime Services)), Item 6 (Traffic Management), Item 7 (Engineering) and Item 8 (Plan of Management) and the associated TTPA's response are provided in the following table:

No.	RFI Details	TTPA's Response
1	Non-concurrence from Transport for NSW (for	ormer Roads & Maritime Services)
	The proposed development was referred to Transport for NSW (TfNSW) in accordance with Clause 101 & 104 of SEPP (Infrastructure) 2007. Non-concurrence is granted for the proposed development - Refer to correspondence received from TfNSW dated 2 March 2020 attached.	During TTPA's consultation with TfNSW on 24 July 2020, TTPA has been advised by TfNSW that in this case, TfNSW will accept Council's decision on the retention of the existing driveway on the GWH.  As discussed in Section 6.5, the removal of the existing driveway off the GWH will compromise the environmental capacity of Belinda Place. Further justifications to retain the existing driveway is also provided in Section 9.
6	Traffic Management	
а	The submitted Traffic Impact Assessment (TIA) does not address traffic comments as outlined in PDA/829.	See revised report which addressed all comments outlined in PDA/829 and the RFI.
b	Section 2.3 of the SEE states that this application is to replace and improve the car parking component of DA2016/392 and that it is intended to proceed with a subsequent DA for the Auditorium. Council would like to see a combined proposal to analyse the overall parking requirements for the site. It shall be noted that there is already a parking shortfall for the existing facility and it was advised that	This traffic report has been updated to accompany a new development application for a proposed multi-storey carpark for the existing Temple and Cultural Hall uses only.  The proposed carpark is to accommodate the existing shortfall of parking spaces during the Temple and Cultural Hall uses

No.	RFI Details	TTPA's Response
	the premises are to be used by the same number of patrons. In addition, the SEE identifies the peak parking demand as 133 parking spaces. Therefore, the provision of additional parking will encourage more patrons to the site. However, there are insufficient amenities provided within the site to accommodate the increased capacity. Matters such as access for emergency vehicles and services, and points of evacuation for the site, noting the anticipated increased capacity, have also not been addressed.	as well as special functions/major events.  The revised parking assessment has considered a conservative approach based on the future provision of car parking spaces by applying a factor of 2.85 to address the impact of the additional parking on-site. See Section 5 for details.  Access for emergency and service vehicles as well as points of evacuation for the site are proposed via the existing driveway off the GWH and the proposed driveway off Belinda Place. See Section 7 for details.
С	The proposed use that will generate the required car parking spaces as provided by the proposed multi-storey car park shall be demonstrated and clarified. An assessment of the existing and proposed car parking spaces on-site, based on existing and future uses, has not been provided to allow Council to determine the required parking spaces for all uses on site. It is noted that there is no approved masterplan for the site, therefore the future use and timing of when the site will be further redeveloped as per the masterplan is uncertain. This is a reason as to why a combined proposal as stated above, is requested.	The proposed carpark is to accommodate the car parking demand associated with the existing Temple and Cultural Hall uses.  An assessment of the on-site car parking demand associated with the existing Temple Cultural Hall uses is provided in Section 5.
d	The submitted TIA states that this revised DA seeks to modify the approved basement carpark to an above ground carpark. It shall be noted that the proposal is a new development application and as such not related/modification of DA2016/392 approval.	The revised traffic report is for a new DA. Any reference to the previous DA2016/392 has been removed from this report.
е	A Road Safety Assessment of the existing and proposed entrances has not been provided.	A road safety audit prepared by J. Wyndham Prince and TTPA's associated response, are included in Appendix G.
f	TfNSW has indicated that access on Great Western Highway shall be removed and vehicular access to  the site shall be from Belinda Place only. This will generate more traffic within Belinda Place which would impact on both the existing and proposed traffic flow and residential amenity of neighbouring properties.	The removal of the existing driveway off the GWH will compromise the environmental capacity of Belinda Place, as detailed in Section 6.5.

No.	RFI Details	TTPA's Response
	This impact has not been addressed in the submitted TIA.	
g	The SEE states that the additional parking will not generate any additional traffic demands and those  demand come from the actual use of the site. In this regard, Council would like to know the	The parking demand associated with the proposed multi-storey carpark will not be entirely new (additional). This is because the parking demand associated with the existing Temple activities already occurs on the surrounding roads.
	future demand  for the site with respect to the future use and the parking requirements for that use in conjunction with this proposal. This information is essential to identify the traffic impact on the surrounding road network.  The submitted TIA identified the existing	A car parking demand assessment has been provided based on the attendance of 1,100 persons during special/major events and a vehicle occupancy of 3.3. A conservative traffic assessment has been completed based on the future car parking capacity by applying a factor of
	service levels of the road network. The report has not identified the future service level. This may be a reason that the demand has not been established. Council requires the analysis of the traffic impact of the proposed	2.85 to the existing traffic volumes.  The traffic and parking assessments are based on the existing Temple and Cultural Hall uses.
	carpark to be identified as part of this application.	Assessment associated with any future use(s) on the site would be included in the future application.
h	The submitted TIA identifies the environmental absolute maximum capacity for Belinda Place as 100 and the post development will be 84, which is without any traffic generation as there is no additional	The parking and traffic impact assessments have been updated based on the future car parking provision. This is consistent with the assessment of the approved DA2016/392.
	traffic generation as part of this development. It shall be noted that the traffic report submitted as part of the previous development (DA2016/392), the peak traffic generation, on	Council's DCP classified Belinda Place as a collector based on the 20m road reserve.
	Belinda Place is shown to be in order of 300 vehicles per hour with the retention of Great Western Highway access. As advised by TfNSW, the removal of the GWH access will	RMS Guidelines 2002 indicate environmental and absolute goals of 300 and 500 vtph, respectively for a collector.
	increase the traffic movements in Belinda Place significantly.	The assessment indicates that the peak- hour traffic volumes on Belinda Place will exceed the absolute maximum environmental capacity of 500 vtph, with the removal of the existing driveway off the GWH (514 vtph). As such, the existing driveway should be maintained to ensure that the environmental capacity of Belinda Place remains uncompromised (357 vtph).
i	The proposed development has not addressed Council's comments as outlined in PDA/829 in relation to the road widening of Belinda Place.	See Section 8.1 which justify why the widening of Belinda Place is not required.

No.	RFI Details	TTPA's Response
j	The proposed driveway access intrudes more into the cul-de-sac bulb due to the introduction of the median and is not supported. The driveway shall be realigned to be clear of the cul- de-sac bulb.	The median is proposed to be in accordance with AS2890.1 for a User Class 2 facility with 101 to 300 spaces.  The driveway has been realigned to clear
		the cul-de-sac bulb. See Appendix C.
k	The submitted TIA states that the proposal uses the approved access driveway via Belinda Place. It shall be noted that the approval was granted to the previous development DA2016/392 and the proposed development is different and as such Council has assessed the vehicular access requirements based on the subject proposal on its merit. In this instance, Council is unable to support the Belinda Place access without knowing the traffic impact on the street network. If the Belinda Place access is to be provided as part of a combined development, the road widening of Belinda place as advised in the PDA/829 is to be provided.	The traffic impact assessments have been updated based on the future car parking provision. See Section 8.1 which justify why the widening of Belinda Place is not required.
7	Engineering	
а	The parking space dimensions are missing and must be shown on plans. As specified in the submitted TIA, the average vehicle occupancy is 3.3 persons, which means all car door needs to be opened. The visitor's parking space width must be 2.6 m.	The dimensions of the car parking spaces are in accordance to the DCP. The required dimensions are now shown in the architectural plans (See Appendix C).
b	The disabled car spaces are recommended to be relocated to level 1, closer to the lift or access ramp to eliminate need of using lift for safety reasons and convenience.	All disabled parking spaces are now on Level 1. A minimum of 2.5m headroom will be available for these spaces. See Appendix C.
С	Ground floor parking spaces numbered 1, 2 and 3 accessed directly from the external driveway, located outside and to the east of the car park entry/exit present sight line concerns and conflicts due to its location. Swept paths for these spaces have also not been provided.	Car spaces 1, 2 and 3 will be allocated for staff only, which will arrive in the morning before the arrivals of visitors and depart in the evening after a majority of the visitors have departed from the site. As such, the likelihood of conflicting movements with other vehicles due to the vehicle manoeuvring in and out of these 3 spaces will be very low and will not present any safety concerns to the general traffic. It should also be noted that the staff will be very familiar with the car parking layout and will manoeuvre in and out of these spaces safely. The swept path assessments associated with these 3 spaces are provided in Appendix E.
d	No details are provided in relation to the headroom clearance within the car park. The headroom clearance of the disabled car parking spaces needs to be at least 2.3 m whereas that within the disabled car space should be at least 2.5 m. The rest of area within the car park must not be lower than 2.2 m.	Headroom information are now included in the revised architectural plans (See Appendix C). A minimum headroom of 2.3m will be provided for accesses to disabled parking spaces while a minimum of 2.2m will be available for accesses to the standard spaces. In addition, a minimum of 2.5m headroom will be

No.	RFI Details	TTPA's Response
		available above all disabled spaces.
е	The long-sectional profile along the driveway/circular access way and the aisles, with the finished surface level, ceiling levels, and the level of any objects hanging lowest from the ceiling such as service conduits etc. need to be shown on plans. Plans should include the finished surface levels and ceiling levels, headroom clearance, the sectional length and associated gradients at critical locations such as at the change of gradient of the driveway/aisle surface, at the location of lowest hanging objects etc.	See Appendix C.
f	Internal swept paths along the circular aisle for the upper levels of the proposed car park are missing. The swept path for the entry into and exit from the following car spaces are required:  i. Car space number 14 and 15 (on the northeastern corner), and space 18 on ground level car park.  ii. Car space 17, 18, 21 and 39 on level 1 car park.  iii. Circular aisle in level 1 and above.	See Appendix E.
g	The width of the circulation way (driveway) / ais unobstructed movement of vehicles and manoe number of conflicts where the vehicular paths of traffic obstructions. The following issues are rais	uvring. Swept paths submitted identify a verlap indicating likelihood of collision and
i.	The swept paths for the vehicles moving in opposite direction within the circulation way (driveway) overlap with one another or with the surrounding objects such as kerbs, walls, columns etc. at several locations indicating likelihood of collision with another vehicle or the structures.	See Appendix E.
ii.	The swept paths within the internal circulation aisle and parking aisle overlap with one another or the surrounding objects including the car spaces indicating the likelihood of collision with another vehicles or objects.	See Appendix E.
iii.	Due to high volume of traffic, swept path template for standard B99 vehicle shall be used instead of B85, and that stopping to make abrupt turn must not be used in such a heavy traffic flow condition.	See Appendix E. Swept path assessments based on B99 and B85 cars are in accordance to AS2890.1.
	The width around such sections need to be widened to avoid such collisions or delete the objects/structure that falls within the swept path.	The width of the aisles and car parking configurations have been adjusted to ensure no collisions with objects/structure. See Appendix E.
8	Plan of Management In accordance with Section 8 – Operational management – Part G Places of Worship of HDCP 2013, an operational management plan is to be submitted to Council to ensure the amenity of residents within the vicinity of the place of	See Appendix F.

No.	RFI Details	TTPA's Response
	public worship, and management of traffic and amenity impacts of the proposed multi storey car park. An operational management plan has not been submitted with the application.	

# 2.0 Existing Site and Context

#### 2.1 Site and Context

The site (Figure 2) is located on the south-western side of Belinda Place between the GWH and the M4 Motorway. The site comprises a number of lots (the south-east corner of Lot 1 of DP870186, SP52225 and Lot 220 of DP12899) and occupies an irregular shaped area of some 17,467m² with levels which fall away to the south. The site is situated in what was formerly a single dwelling area with some villa home developments. However, following the 2013 change in zoning, numerous multi-level apartments and mixed-use buildings were completed, under construction and in planning along the eastern side of Belinda Place as well as both sides of the GWH.

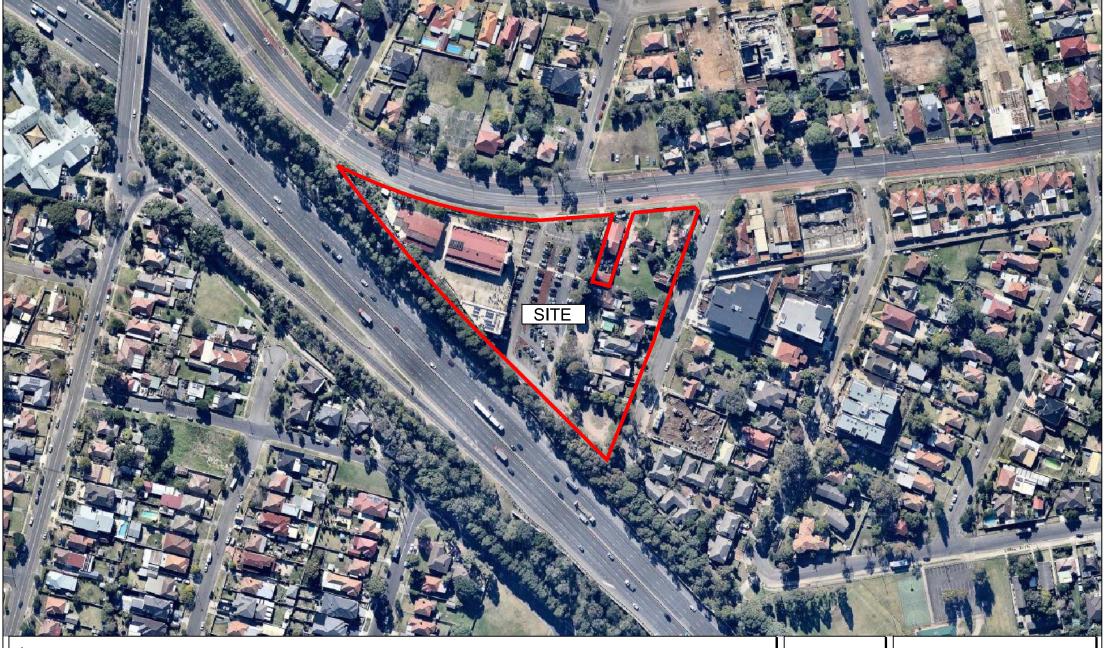
The existing development on the site comprises:

- south-east corner of Lot 1 of DP870186 -12 on-grade car parking spaces
- SP52225 2 single detached dwellings with one access driveway on Belinda Place
- Lot 220 of DP12899 a single detached dwelling with one access driveway on Belinda Place

### 2.2 Existing Temple Use

The existing Temple comprises:

- the existing Cultural Hall on the westernmost part of the site which was the original temporary Temple with maximum seating of 300 persons (628m²)
- the Temple which is on the western part of the site (823m²) surrounded by a large worshipper/visitor gathering area (1,817m²)
- the kitchen/office facilities which adjoin the Temple (312m<sup>2</sup>)
- other associated infrastructure, religious and cultural facilities



LEGEND



SITE

FIG 2

114 on-grade parking spaces with vehicle access located centrally on the GWH frontage

The existing Temple's operation are detailed in the following:

**Temple Opening Hours** 

Friday 7.00 am - 9.30 pm

All other days 7.00 am - 8.30 pm

Daily Pooja Times

Morning 7.00 am and 10.00 am

Afternoon 12.00 pm, 5.00 pm, 7:00 pm and 8:30 pm (9.30 pm on

Fridays)

Kootu Valipadu

Tuesdays 8.00 pm - 8.30 pm

Fridays 8.00 pm - 9.00 pm

### 2.3 Existing Parking Conditions during Regular Worship Day

The satisfactory on-site parking condition during a regular worship day is demonstrated in the following Nearmap capture:



### 2.4 Existing Parking Conditions during Special/Major Events

The Temple also provides for Saiva/Hindu wedding s, which by custom must occur in the Grounds of a Temple as well as numerous special religious and cultural events. The special events equate to 291 hours per year (3% - 4% time in a year) and generally attract some 1,000 attendees and 100 volunteers, where demand for parking outstrips supply. See details overleaf for the days and hours when the occasional events/functions occur.





	Morning Evening						
Date	Day	From	To	From	То	Purpose	No. of hours
29-Mar	Sun	10:00am	2.00PM	6.30PM	9.30PM	Annual Festival - Day 1	7
30-Mar	Mon			6.30PM	9.30PM	Annual Festival - Day 2	3
31-Mar	Tue			6.30PM	9.30PM	Annual Festival - Day 3	3
1-Apr	Wed			6.30PM	9.30PM	Annual Festival - Day 4	3
2-Apr	Thu	in Yali		6.30PM	9.30PM	Annual Festival - Day 5	3
3-Apr	Fri			6.30PM	9.30PM	Annual Festival - Day 6	3
4-Apr	Sat			6.30PM	9.30PM	Annual Festival - Day 7	3
5-Apr	Sun			6.30PM	9.30PM	Annual Festival - Day 8	3
6-Apr	Mon	10:00am	2.00PM	6.30PM	9.30PM	Annual Festival - Day 9	7
7-Apr	Tue	10:00am	2.00Pm	6.30PM	9.30PM	Annual Festival - Day 10	7
8-Apr	Wed			6.30PM	9.30PM	Annual Festival - Day 11	3
14-Apr	Tue	10.00AM	2.00PM	6.30PM	9.30PM	Tamil New Year	7
19-Sep	Sat	10:00am	2:00pm			Purataathi Sani	4
26-Sep	Sat	10:00am	2:00pm			Purataathi Sani	4
3-Oct	Sat	10:00am	2:00pm			Purataathi Sani	4
10-Oct	Sat	10:00am	2:00pm			Purataathi Sani	4
17-26 Oct	Sat-Mon			6.30PM	9.30PM	Navarathiri (10 days)	30
14-Nov	Sat	10:00am	2:00pm	6.30PM	9.30PM	Diwali	7
15-Nov	Sun		100	6.30PM	9.30PM	Kethara Gowri Viratham	3
20-Nov	Fri			6.30PM	9.30PM	Skanda Shashti	3
31st Dec	10.00PM	2.00AM					4
1-Jan	10.00AM	2.00PM		6.30PM	9.30PM	New Year Day	7
28-Jan	Thur	10:00am	2:00pm	6.30PM	9.30PM	Thai Poosam	7
11-Mar	Thur			6:00pm	12:00am	Maha Sivarathiri	6
	52 Fridays			6:30pm	9.30PM	All Fridays of the year	156
Total Hours 291						201	

Note: This is approximately 3-4 percent of the available hours in a year.

While the existing on-site carpark can accommodate the demand associated with the regular worship days, the lack of on-site parking has always been an issue during the special/major events. During these occasional events/functions, the resultant additional parking demand places a lot of pressure on the on-street parking within the immediate surrounding local roads such as Belinda Place, Peggy Street, Rees Street, Patricia Street, Robillard Street. It is also noted that visitors/devotees of the Temple relied on on-street parking on local roads on the north side of the GWH such as Bernard Street, Fraser Street, Whitworth Street and Anderson Street.

Due to the intensifications of developments along the GWH and Belinda Place, the on-street parking now attracts more parking demand from the residents/tenants as well as visitors that drive to/from the business premises. These users have to compete intensely with the Temple's visitors/devotees for the limited on-street spaces.

TSM has traditionally offered a free shuttle service from Westmead railway station to/from the Temple to address the lack of on-site parking spaces. In addition to the free shuttle provision, TSM has submitted a Reviews of Environmental Factors on the temporary use of a vacant site at 1A Belinda Place and 197 Great Western Highway, Mays Hill as a temporary carpark. The temporary carpark can accommodate up to 58 cars with vehicle access through a driveway which existed previously for access to/from the garage of 1A Belinda Place site.

The temporary carpark will be used to accommodate the car parking demand during the peak festival periods for a limited number of hours. It will serve as an interim arrangement for a one-year period subject to renewal by Council considering the timing for completion of the multi-storey carpark (DA0018/2020).

### 2.4 Existing Parking Survey

The results of an "occupancy" survey of vehicles visiting the site during a regular function at the Cultural Hall are provided in Appendix A, indicating an average vehicle occupancy of 3.3 persons. At this event, there was a peak accumulation of 440 persons. As the Temple's operation and occupancy outcome will be maintained, the previous survey will remain applicable.

# 3.0 Existing Road Network, Traffic Conditions and Public Transport Provision

### 3.1 Road Network

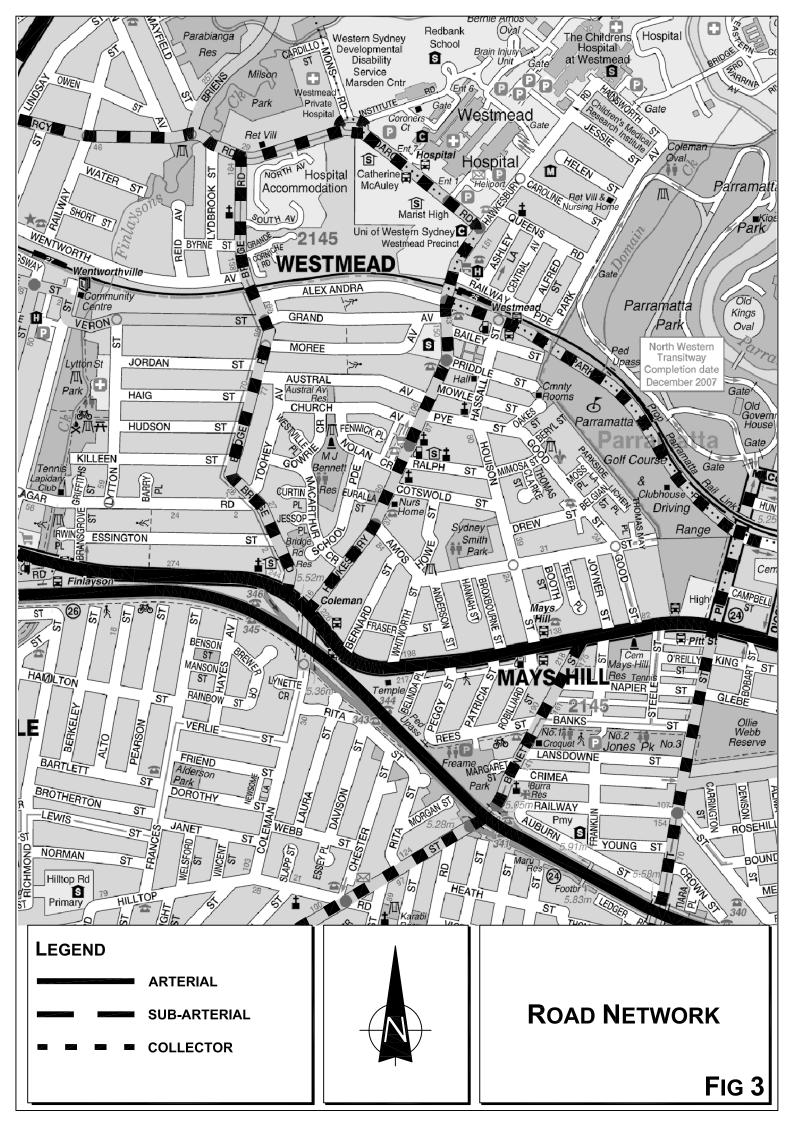
The road network serving the area in the vicinity of the site (Figure 3) comprises:

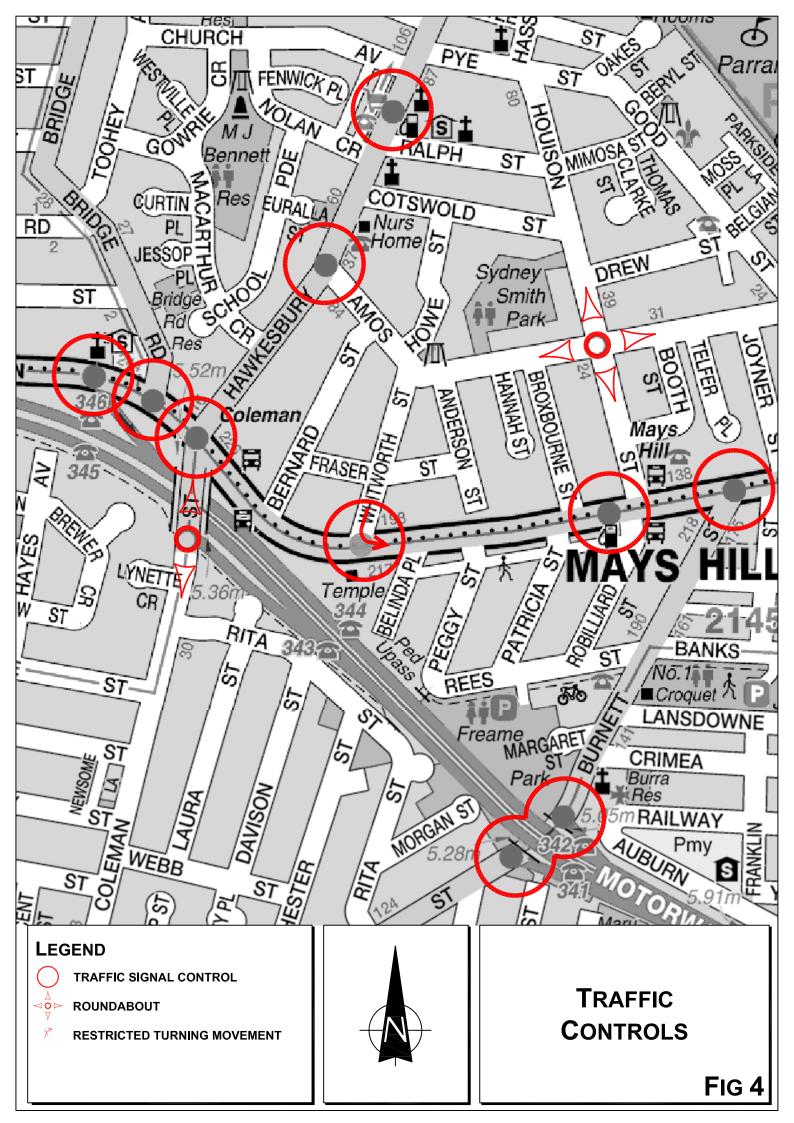
- M4 Motorway a State Road and arterial motorway route linking between Concord and Penrith
- Great Western Highway a State Highway and arterial route connecting between
   Sydney and Penrith
- ❖ Burnett Street a sub-arterial road connecting through Merrylands connecting to the GWH and the M4 (east-facing ramp)
- Whitworth Street a local road providing access to the residential area to the north of the Highway
- Belinda Place is classified as a collector based on the width of its road reserve of 20m. It connects to the GWH to the north.

### 3.2 Traffic Controls

The existing traffic controls, which have been applied to the road system serving the site, (Figure 4) comprise:

- the traffic signals at the intersection of Whitworth Street and the GWH, with the prohibition of the right turn movements into and out of Whitworth Street and a pedestrian crossing across the Highway on the eastern side of the intersection
- the Liverpool-Parramatta Transitway runs along the kerbside lanes of the Highway
- the 60 kph speed limit on the Highway and the 50 kph limit on the local collectors, including Belinda Place





### 3.3 Traffic Conditions

The previous traffic surveys were completed during the Temple's normal worship activities on Friday, 19 August 2016 at the following intersections:

- Site Access/Great Western Highway
- Whitworth Avenue/Great Western Highway

A review of the TfNSW traffic volume data (see the following figure) indicate a reduction of up to 20% in the directional traffic volumes along the GWH. This is largely due to the widening of the M4 Motorway from Parramatta to Homebush.



Based on the above and the Temple's operation remains unchanged as part of this DA, the left-in and left-out traffic volumes at the existing Temple's driveway and Whitworth Avenue remain valid.

Further traffic surveys were completed on Friday, 20<sup>th</sup> September 2019 at the following intersections/road link:

- Belinda Place (24-hour automated traffic counts)
- Coleman Street/Great Western Highway
- Bridge Road/Great Western Highway
- Coleman Street/M4 off-ramp

Burnett Street/Great Western Highway

In addition, a drone survey was completed on a regular worship day (Friday, 31 July 2020) to understand the traffic movements associated with the Temple and the gaps available along the westbound traffic flow on the GWH.

The drone footage indicates vehicles turning left onto the GWH are afforded with regular gaps in the westbound traffic flow due to the operation of the Whitworth Street traffic signals.

The gaps are created by the north-south pedestrian crossing generally due to accessibility to/from the bus stops along both sides of the GWH (see the following figure and traffic control signal plan provided overleaf).

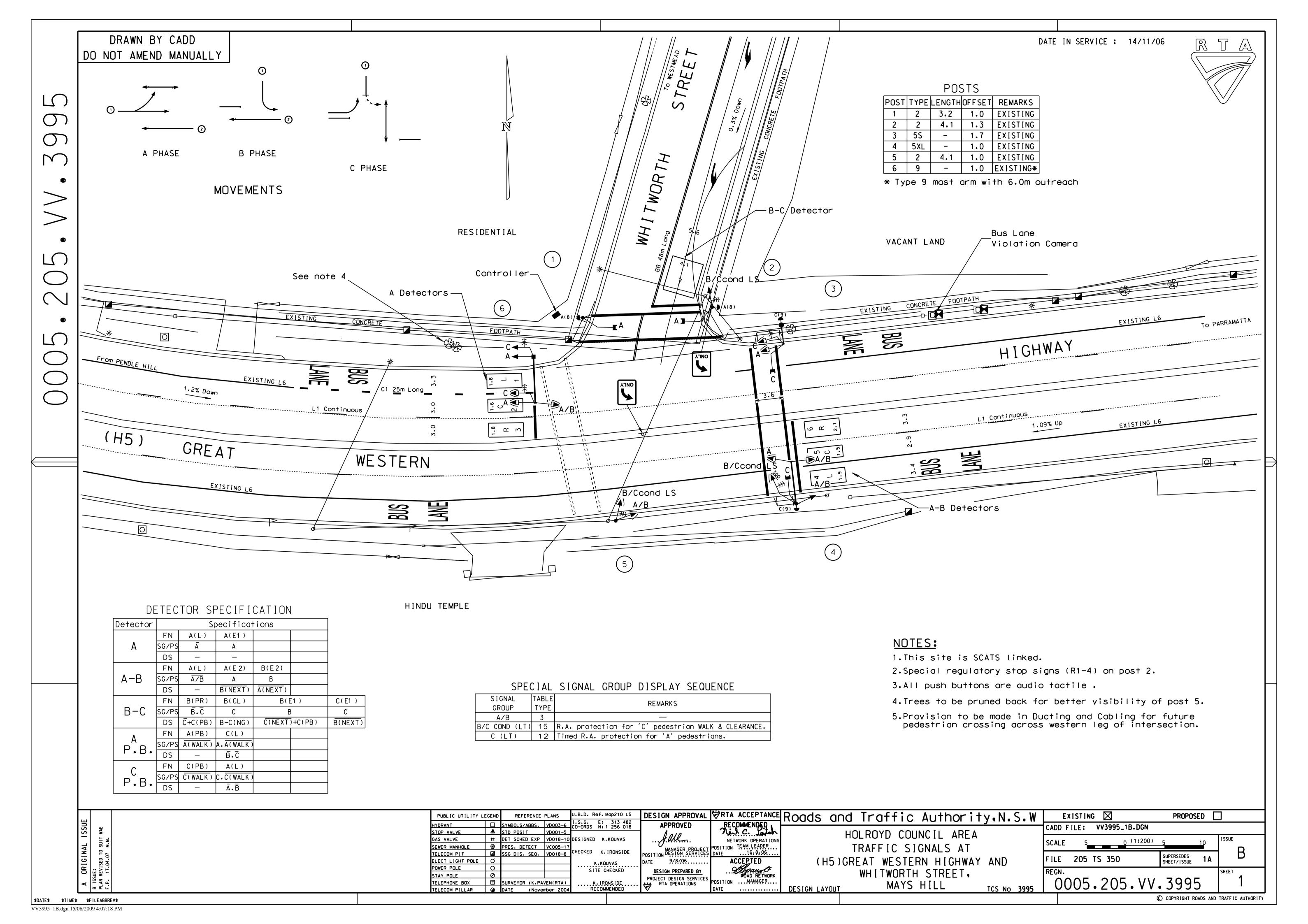


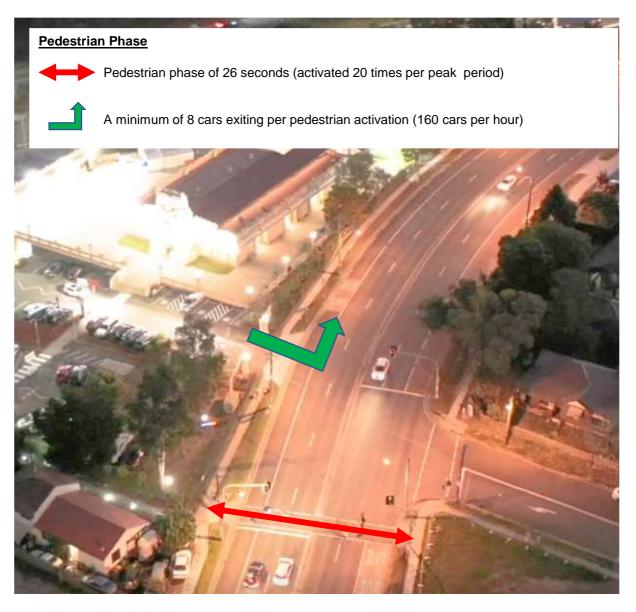
The survey (as illustrated in the following figure) also indicates:

- A pedestrian phase of 26 seconds for every activation
- 20 pedestrian activations per hour

With start loss of 3 seconds and follow up headway of 2.5 seconds, 9 cars can exit via the existing driveway during each pedestrian phase.

Based on the above, it is expected some 180 cars can depart from the site during the peak hours, without affecting the westbound traffic flows including the busses on the bus lane.

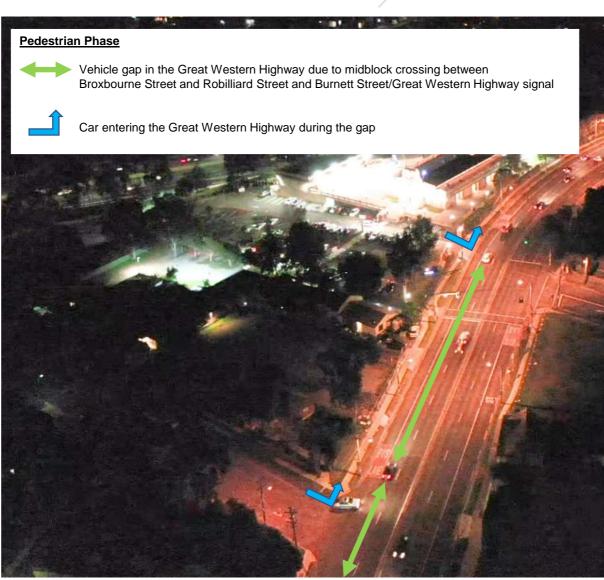


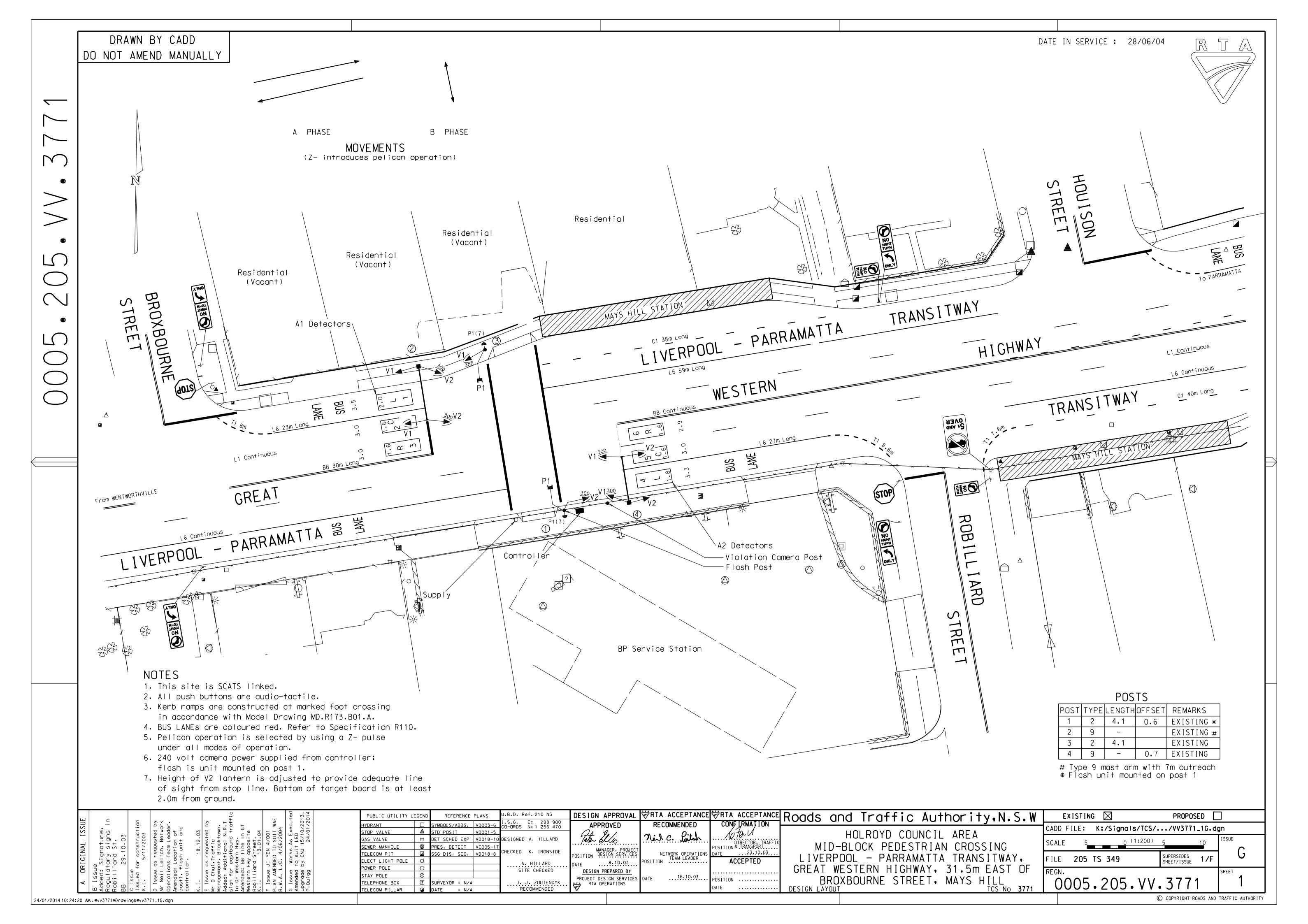


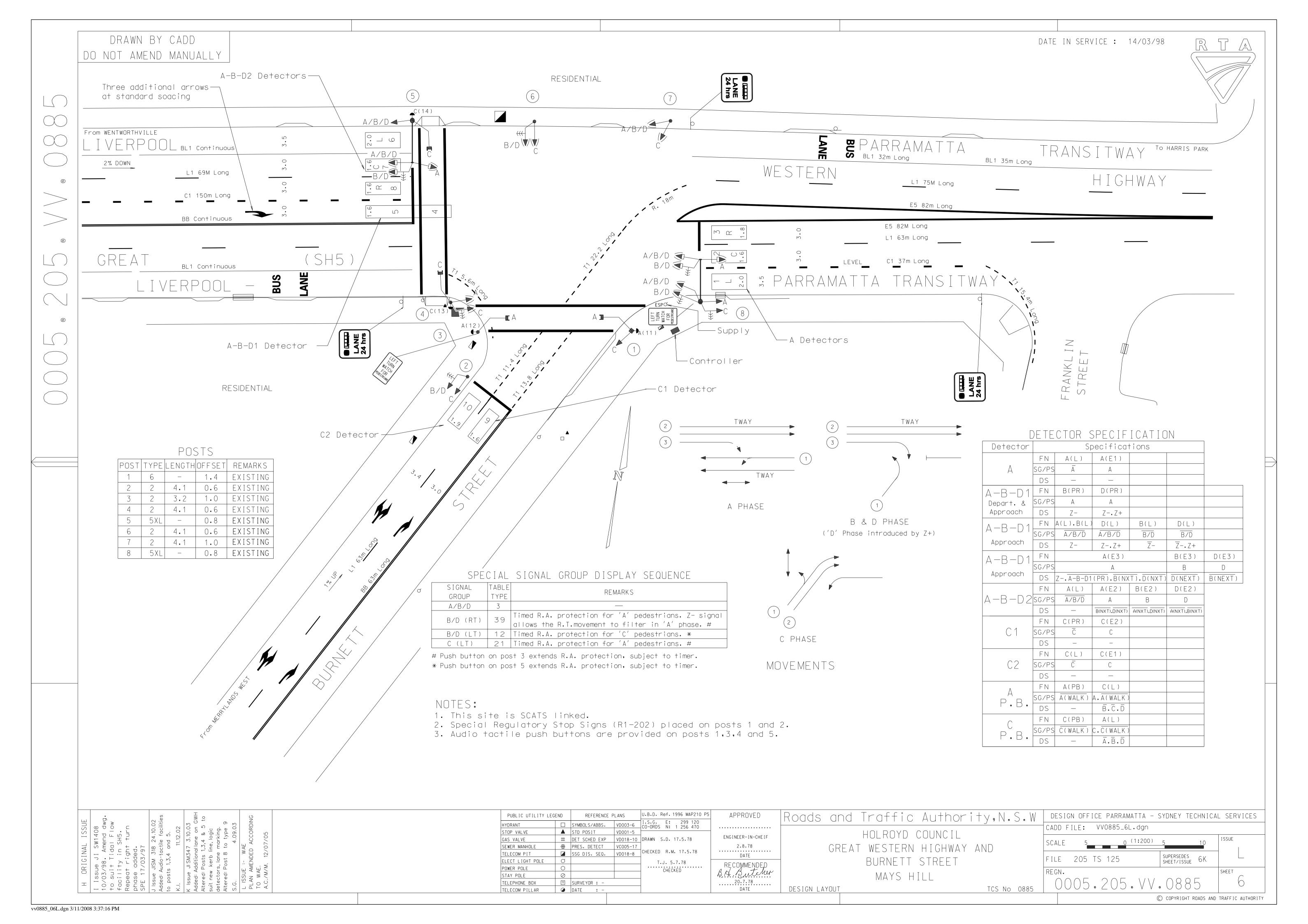
In addition to the ample gaps created by the pedestrian activation at the Whitworth Street/Great Western Highway intersection, vehicles turning left from the existing Temple's driveway and Belinda Place also benefitted by the westbound traffic gaps created by the operation of the traffic signals to the east.

These gaps due to the pedestrian activation at the midblock crossing on the GWH between Broxbourne Street and Robillard Street and the signals at Burnett Street/Great Western Highway intersection), are illustrated in the following figures. See traffic control signal plans provided overleaf.









It was also observed from the drone footage that most vehicles exiting the Temple's driveway and Belinda Place waited for a gap in the traffic flow on the general traffic lane (and not the bus lane – see the following figure) on departure.

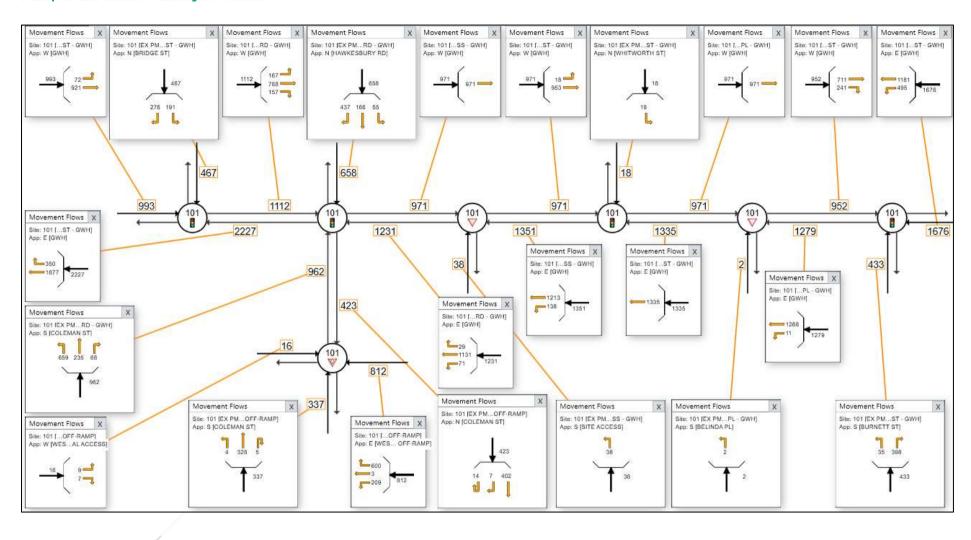


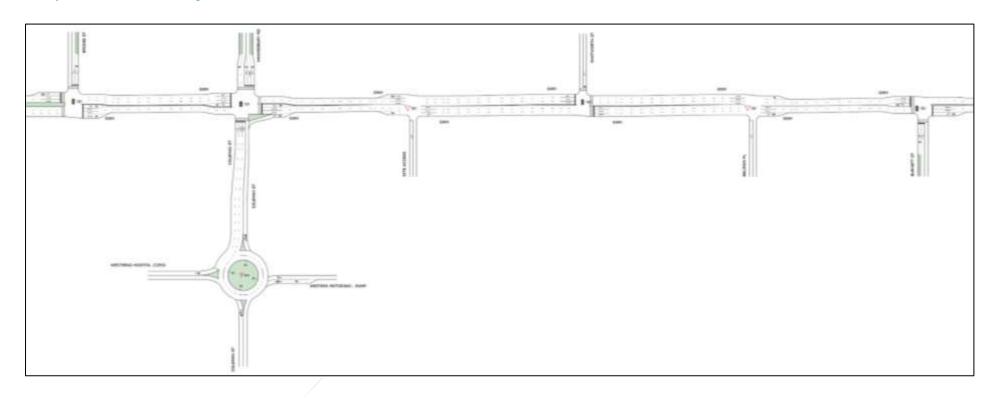
However, the NSW Road Rules indicate that general traffic is allowed in bus lanes for up to 100m in order to:

- Turn left or right into or out of a street (i.e., turning left onto Belinda Place and turning left onto the GWH from Belinda Place)
- Enter or leave a property adjacent to the bus lane (i.e., turning left onto the Temple's driveway and turning left onto the GWH from the Temple's driveway)

## 3.4 Existing Intersection Operation

Details of the Friday's afternoon traffic volumes at the following 7 key intersections in the vicinity of the site and the SIDRA network layout are illustrated in the following figures and provided in Appendix B.





The operational performance of these intersections has been analysed using the SIDRA program and the results of that assessment are provided in Appendix D. The results are summarised in the following while the criteria for interpreting the SIDRA output is provided overleaf.

		PM	
	LOS		AVD (S)
Site Access/Great Western Highway	Α		8*
Belinda Place/Great Western Highway	Α		7*
Whitworth Avenue/Great Western Highway	Α		4
Coleman Street/Great Western Highway	/ D		53
Bridge Road/Great Western Highway	В		27
Coleman Street/M4 off-ramp	В		19*
Burnett Street/Great Western Highway	C		37

<sup>\*</sup> Worst movement reported for unsignalised intersection.

The results indicate that the intersections operate with acceptable levels of service at the present time during the PM peak traffic period. This is largely a result of the regular gaps available in the westbound traffic flow in the GWH.

### 3.5 Public Transport Services

The Temple is located adjacent to the Liverpool to Parramatta Transitway, while the nearest T-way Station is located opposite Bernard Street (Coleman Station) to the west of the Temple. The T-way provides a regular service between Liverpool and Parramatta, providing a viable alternative to travelling by car. This is particularly relevant to Parramatta Centre, which involves a journey of only 11 minutes. The Parramatta Interchange is located in the vicinity of the Railway Station, providing a very convenient access to the rail network.

# 4.0 Proposed Development

The proposed development comprises:

- the demolition of 2 dwellings on SP52225
- the excavation and minor fill of the site for the construction of a levelled-platform for the 5-storey carpark (with 223 spaces) on the south-eastern part of the site fronting Belinda Place.
- the provision of a new vehicle access to/from the multi-storey carpark on the south-western end of Belinda Place
- the demolition of the south-east corner of an existing on-grade carpark on Lot 1 of DP870186. This will result in a loss of 12 spaces. The demolition is to accommodate a new vehicle link/connection between the existing carpark and the new multi-storey carpark/Belinda Place
- the boundary adjustment for Lot 220 of DP12899 to accommodate the required setback for the proposed carpark
- the removal of 2 existing driveways on SP52225 and Lot 220 of DP12899
- the construction of a new carport and driveway for Lot 220 of DP12899

As discussed, the site currently provides 114 on-grade parking spaces. Following the completion of the multi-storey carpark:

- the parking provision will be increased by 211 spaces to 325 spaces (223 spaces within the multi-storey carpark, minus 12 displaced spaces).
- the proposed carpark will be accessible via Belinda Place (primary access) and the new internal road link from the GWH (alternate access)

The proposed new multi-storey carpark will provide a total of 223 spaces with the following breakdown:

- \* Ground-level 34 spaces
- **★** Level 1 35 spaces

- \* Level 2 53 spaces
- \* Level 3 53 spaces
- \* Rooftop 48 spaces

The existing on-site parking can accommodate up to 114 spaces and will eventuate to 102 spaces due to the loss of 12 spaces.

Following the development of the carpark structure, there will be a total on-site parking provision of <u>325 spaces</u>.

Details of the proposed development are provided in the plans prepared by HPI Architects, which accompany the Development Application and are reproduced in part in Appendix C.

# 5.0 Parking

The car parking requirements for the Temple and Cultural Hall uses are set out in Holroyd City Council's 'Development Control Plan 2013'.

### 5.1 Council's DCP Requirements for Temple Use Only

A review of the car parking requirement rates results in a statutory parking requirement of 97 spaces for the Temple use only, as shown below:

Use	Size	Car Parking Rate	No. of Spaces
Temple	823m <sup>2</sup>	1 space per 8.5 m <sup>2</sup>	97

### 5.2 Council's DCP Requirements for Temple & Cultural Hall Uses

The car parking requirement for the existing Temple and Cultural Hall uses based on Council's DCP rates equates to 147 spaces, as summarised in the following:

Use	Size	Car Parking Rate	No. of Spaces
Cultural Hall	300 persons (628m²)	1 space per 6 seats	50
Temple	823m²	1 space per 8.5 m <sup>2</sup>	97
	Total		147

### 5.3 Council's DCP Requirements for Special/Major Events

The applications of Council's DCP rates to 1,100 persons (including 100 volunteers) during special/major events indicate a requirement of 281 car parking spaces during these events as detailed in the following:

Use	Size	Car Parking Rate	No. of Spaces
Cultural Hall and associated worshipper/visitor gathering area	1,100 persons	1 space per 6 seats	184
Temple	823m <sup>2</sup>	1 space per 8.5 m <sup>2</sup>	97
	Total		281

### 5.4 Empirical Car Parking Demand for Special/Major Events

The surveyed parking data indicates an average occupancy of 3.3. With 1,100 persons in attendance, it is conservatively assumed that 95% of the attendees will drive to/from the events. As such, there would be 1,050 travelling by car which would equate to 318 cars.

### 5.5 Adequacy of Proposed Parking Provision

It is apparent that the provision of 325 spaces will fully accommodate the day to day demands of the existing Temple and Cultural Hall uses. Such provisions are also in accordance with Council's DCP and will not result in any on-street overflow parking.

While it is noted that the 1,100 people in attendance would only occur infrequently, the proposed parking provision of 325 spaces will be adequate to accommodate the parking demands of 318 cars with minor overprovision of 7 spaces to accommodate any minor increase of demand due to the proposed multi-storey carpark.

The provision of 325 car parking spaces also satisfies the requirements of Council's DCP for the major/special events.

### 5.6 Disabled Car Parking

A review of the Building Code of Australia (BCA) suggests a disabled car parking requirement of 1 space for every 100 spaces or part thereof. Based on 325 spaces, it is recommended that a minimum of 4 disabled space be provided. The 12 disabled space provision in the existing and new car parking areas is in accordance with the BCA requirement.

# 6.0 Traffic

### 6.1 Existing and Projected Traffic Generation

The traffic/visitation surveys reflect a relatively unique arrival/departure pattern involving gradual arrival and departure of attendees at the function events. It was subsequently advised that this is a unique feature of the TSM cultural and social interaction where there is no exact start and finish times and social interaction occurs before and after the actual events.

Even though there may have been 500 or 600 persons at this event, the arrival and departure of cars were relatively gradual, with a maximum of some 20 arriving/departing in 15 minutes.

The traffic generation resulting from the existing Temple's use with 114 on-site spaces comprise of 138 inbound and 38 outbound vehicles, which equates to a total of 176 vtph.

To provide a conservative assessment, the projected traffic generation will be based on the availability of the future car parking provision. The proposed 325 on-site parking spaces are 2.85 times the existing provision. Application of this potential outcome to the recorded pattern of arrivals and departures provides the peak traffic outcome of 501 vtph (393 inbound and 108 outbound).

### 6.2 Future Traffic Modelling Scenarios

To assess the potential traffic impact associated with the proposed multi-storey carpark and the removal of the existing driveway off the GWH, two modelling scenarios have been developed and modelled. The assessment scenarios are summarised in the following table:

Scenario No.	Access off the GWH		
S1	With Access		
S2	Without Access		

### 6.3 Traffic Modelling Results for Scenario S1

The key intersections near the site were analysed under traffic conditions resulted from the existing Temple and cultural hall with the existing driveway off the GWH to confirm the future intersection operation. Details of the PM peak hour traffic volumes at the key intersections are illustrated in the following figure. The outcome of the

assessment for Scenario S1 are summarised in the following with SIDRA outputs provided in Appendix D:

		PM
	LOS	AVD (S)
Site Access/Great Western Highway	Α	8*
Belinda Place/Great Western Highway	Α	7*
Whitworth Avenue/Great Western Highway	Α	4**
Coleman Street/Great Western Highway	D	52**
Bridge Road/Great Western Highway	С	32**
Coleman Street/M4 off-ramp	В	19*
Burnett Street/Great Western Highway	D	50**

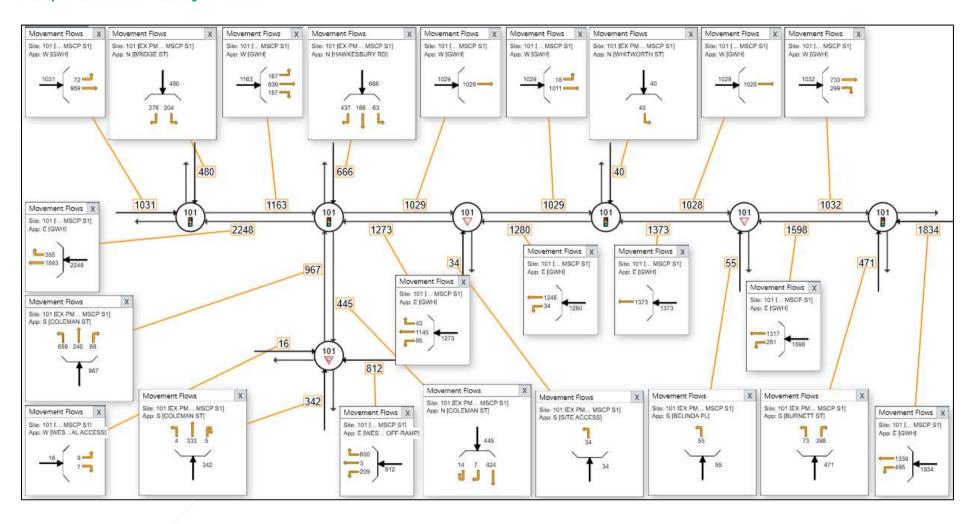
<sup>\*</sup> Worst movement reported for unsignalised intersection.

There are two access points and this will be more than adequate to accommodate these movements, which would only occur infrequently of particular relevance is the fact that the peak activity times will not coincide with normal on-street peak periods.

Cars turning out of the GWH driveway have regular gaps available in the westbound flow in the Highway created by the operation of the Whitworth Street traffic signals. Likewise, cars turning out of Belinda Place will have the benefit of gaps in the westbound flow created by the operation of the traffic signals to the east and there are excellent sight distances available at the two access points onto the Highway.

Ref. 16019

<sup>\*\*</sup> With signal optimisation



### 6.4 Traffic Modelling Results for Scenario S2

Under Scenario 2, the key intersections were analysed with the proposed carpark and the removal of the existing driveway off the GWH. Details of the PM peak hour traffic volumes at the key intersections and SIDRA Network without the existing driveway, are illustrated in the following figures.

The expected future operating conditions of the key intersections without the access off the GWH and with the proposed development, are summarised in the following with SIDRA outputs provided in Appendix D:

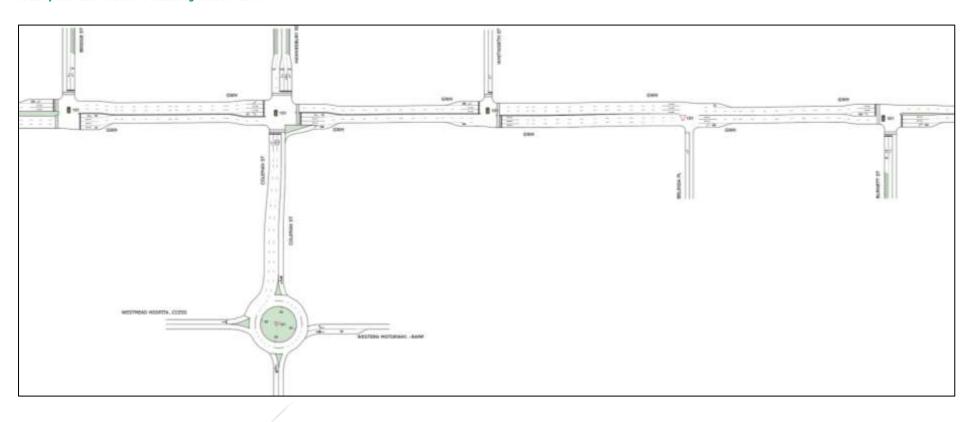
		PM
	LOS	AVD (S)
Belinda Place/Great Western Highway	Α	7*
Whitworth Avenue/Great Western Highway	Α	4**
Coleman Street/Great Western Highway	D	54**
Bridge Road/Great Western Highway	С	32**
Coleman Street/M4 off-ramp	В	19*
Burnett Street/Great Western Highway	D	50**

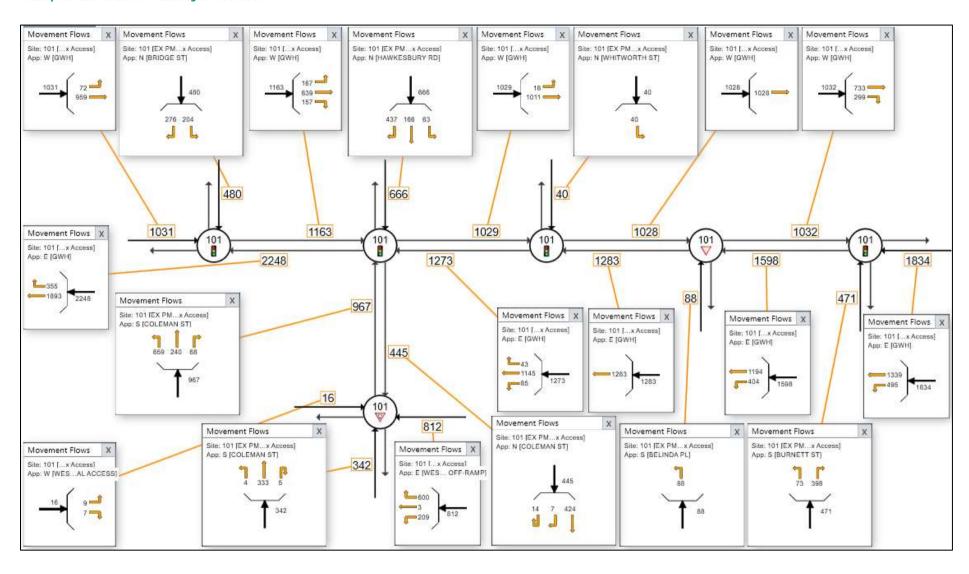
<sup>\*</sup> Worst movement reported for unsignalised intersection.

The traffic impact of the proposed carpark is not perceptibly significant in the context of the surrounding road network with the removal of the existing driveway off the GWH. This is in large because the Temple's peak operating periods do not coincide with the road network peak periods.

However, the removal of the existing driveway will negatively affect the environmental capacity of Belinda Place, as detailed in the following section.

<sup>\*\*</sup> With signal optimisation





### 6.5 Environmental Capacity

The environmental capacities, as indicated in the RMS Guidelines, should be used to assess the traffic impact of the proposed development. Environmental capacity is the volume of moving vehicles which can be accommodated on a road or area, having regard to the need to maintain its environmental standards. This is the traffic volume threshold when the residents living along the roads felt that their roads are busier, noisier, less safe and have less personal involvement and/or knowledge of their neighbours. Belinda Place is a collector.

The RMS Guidelines provide an indicative desirable environment and absolute maximum capacity in relation to a collector, as follows:

	vtph	
	<b>Environmental Goal</b>	<b>Absolute Maximum</b>
Collector	300	500

The traffic surveys and traffic assessment outcome indicate the traffic movements along Belinda Place for the existing and post-development circumstances, as follows:

	vtph
Existing	13
Post Development - Scenario 1 (with existing driveway off the GWH)	13+344 (357)
Post Development - Scenario 2 (without existing driveway off the GWH)	13+501 (514)

The assessment indicates that the traffic on Belinda Place will exceed the absolute maximum environmental capacity without the existing driveway off the GWH. As such, the existing driveway should be maintained in order to ensure that the environmental capacity of Belinda Place remains uncompromised in terms of pedestrian safety and delay as well as noise issues towards residents/tenants within the current and future developments along Belinda Place.

Ref. 16019

### 7.0 Parking, Internal Circulation and Servicing

#### 7.1 Parking and Internal Circulation

The car parking spaces and vehicle aisles have been designed with a minimum width of 2.6m and 6m respectively in accordance to AS2890.1 and Council's DCP.

The design of the internal circulation arrangements will comply with the requirements of AS2890.1, 2 & 6.

Adequate provision has been made for vehicle turning and manoeuvring within a flexible two-way circulation arrangement in the new carpark within the ground level and Level 1. One-way flow systems are proposed within Levels 2, 3 and rooftop to helps avoid congestion by allowing other vehicles to pass another vehicle waiting to enter a parking space.

Directional and give-way signages and line-marking will be provided to assist vehicle movements through the carpark with no clutter and repetition. These will ensure the site is laid out in a clear and simple manner, allowing for safety as well as easy understanding and movements by all users.

Details of vehicle turning assessment are provided in Appendix E.

#### 7.2 Servicing & Loading

Refuse will be removed by the current private contract service (or per the Waste Management Plan). The loading access has been designed to accommodate an 8.8m medium rigid vehicle. Swept path assessments are provided in Appendix E, demonstrating acceptable manoeuvring in and out of Belinda Place.

### 7.3 Emergency Vehicles and Points of Evacuation

Access to the site by emergency vehicles is proposed via the existing driveway off the GWH and the proposed driveway on Belinda Place. This will allow the shortest paths for emergency vehicles to access the incident point.

Emergency protocols on the site would indicate a requirement for the on-site staff to assist with emergency access from the GWH and Belinda Place. All general traffic movements to the incident point would be suspended and cleared.

Similarly, points of evacuation are proposed via the GWH and Belinda Place to ensure rapid removal of people in a safe manner.

Ref. 16019

### 8.0 Access

The existing access driveway on the GWH frontage will be retained as part of the proposed development. The design of the existing driveway complies with the requirements of AS2890.1 and there are good sight distances available for both ingressing and egressing vehicles. Justifications to retain the existing driveway is provided in Section 9.

A new driveway will be provided on the Belinda Place cul-de-sac to serve the need of the multi-storey carpark. This new access will also be reliant upon by service and delivery vehicles. The access driveway has been designed to accord with the AS2890.1 and AS2890.2 criteria and will be located with appropriate sight distances at the intersection with Belinda Place.

An Operational Traffic Management Plan (see Appendix F) would be in place to encourage the use of Belinda Place as the main access to the proposed carpark.

#### 8.1 Main Access via Belinda Place

The use of Belinda Place as the primary access in its current configuration is adequate due to the following:

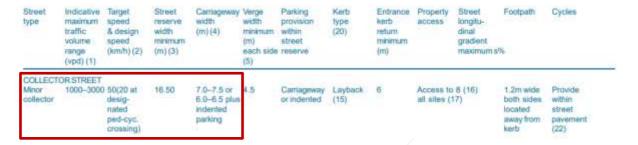
- Belinda Place has a 10.4m-wide carriageway, including 2.1m-wide kerbside parking along both sides of the road. The remaining 6.2m-wide traveled lanes allow for the safe manoeuvring of two B99 cars in both directions concurrently.
- The provision of 6.2m-wide traveled lanes are in accordance with Austroads Guide to Road Design Part 3 Geometric Design, where a 3m wide lane width is required for the use on low-speed roads with low truck volumes.

Table 4.3: Urban arterial road widths

Element	Lane width (m)	Comments
General traffic lane	3.5	General traffic lane widths to be used for all roads
	3.0-3.4	For use on low speed roads with low truck volumes

- In addition to the Austroads guidelines, reference has been made to the widely accepted Australian Model Code for Residential Development (AMCORD) in

relation to the design characteristics of the urban road. While Belinda Place is considered as an access street, its current configuration has been designed in accordance with the requirements of a minor collector. This equates to a carriageway width of 6.0m with indented parking for a minor collector.

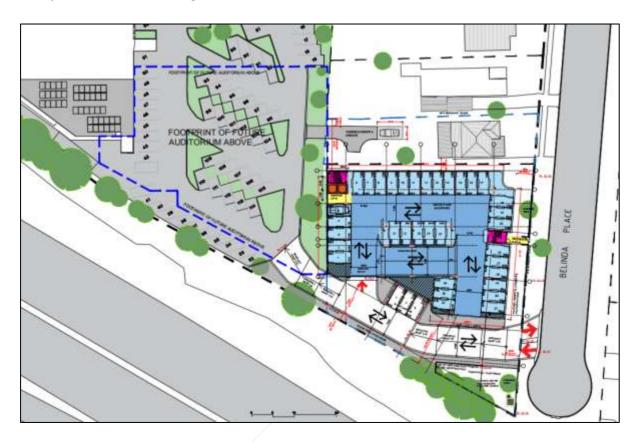


- The widening of Belinda Place will create unsafe and difficult crossing conditions for pedestrians along the footpath on Victoria Street due to the higher turning and operating speeds, longer pedestrian crossing distance and exposure to traffic as well as a greater chance the pedestrian will fall outside the line-of-sight of the driver.
- The nature of the development with vehicles generally arriving at the start of the function/event and depart at the end of the function/event. As such, the likelihood of concurrent movement of vehicles is low.

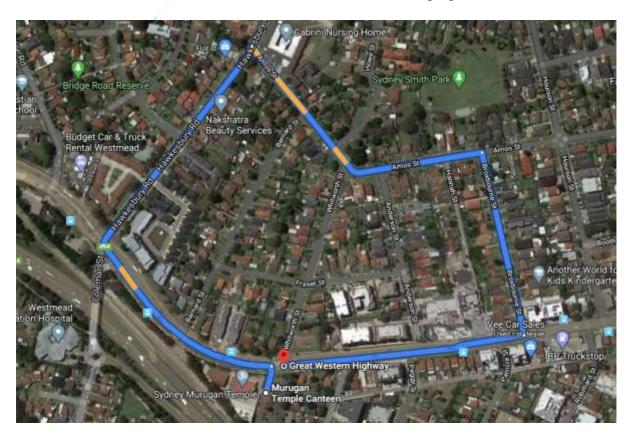
Based on the above, the existing carriageway width of Belinda Place is suitable as the primary access to the multi-storey carpark.

#### 8.2 Alternate Access via the Proposed Road Link

A road link is proposed between the existing and new car parking facilities, as shown in the following figure. The link reduces the traffic impact on the existing road network by eliminating the recirculation of traffic to re-access the carpark in the event that the exiting on-grade carpark or the new multi-storey carpark is full.



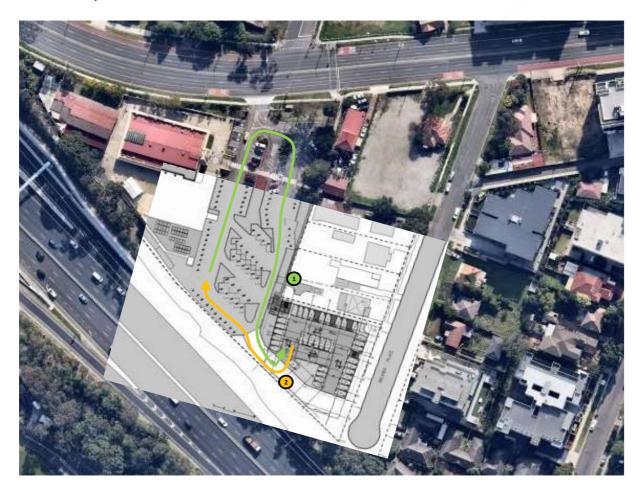
With the surrounding road and intersection configurations, the unnecessary recirculations of vehicles result in additional traffic on Hawkesbury Road, Amos Street, Broxbourne Street and the GWH, as shown in the following figure.



Ref. 16019

The proposed internal road link offers the following benefits:

- Movement 1: cars from existing carpark can proceed to the new carpark if the existing carpark is full
- Movement 2: cars from the new carpark can proceed to the existing carpark if the new carpark is full



# 9.0 Benefits of Retaining Access off Great Western Highway

Council has consulted TfNSW in regards to the proposed carpark and TfNSW has provided the following comments:

TfNSW has reviewed the development application and does not support the retaining of access via Great Western Highway as the site has vehicular access via Belinda Place (local road). In accordance with the provisions of Clause 101 (2), a of the State Environmental Planning Policy (Infrastructure) 2007, existing access on Great Western Highway should be removed, with the access being provided from the local road.

In addition to Clause 101 (2)a, the Australian Guidelines "Planning for Road Safety" is based on the widely accepted principle of conflict reduction by separating the traffic movement and land access events as much as possible. Great Western Highway is a major arterial road, which carries a high volume of traffic, where transport efficiency of through traffic is of great importance.

Clause 101(2a) of State Environmental Planning Policy (Infrastructure) 2007, which reads as follows:

"The consent authority must not grant consent to development on land that has frontage to a classified road unless it is satisfied that:

(a) where practicable, vehicular access to the land is provided by a road other than the classified road".

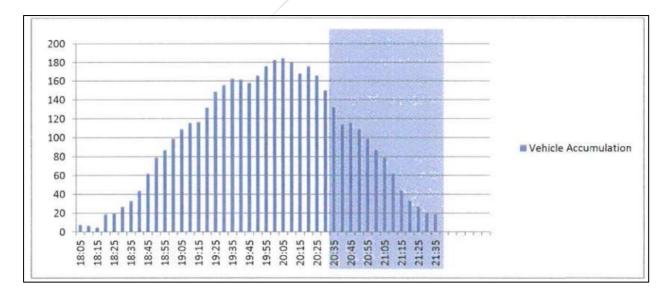
#### It should be noted that:

- the development on land for this DA is the proposed multi-storey carpark
- the proposed multi-storey carpark is on land that does not have frontage to the GWH. As such, access has been proposed via Belinda Place.
- the proposed road link between the existing and the proposed multi-storey carpark is not a formal access to the Temple, but to allow vehicles to travel

between the two facilities without unnecessary recirculation within the road network

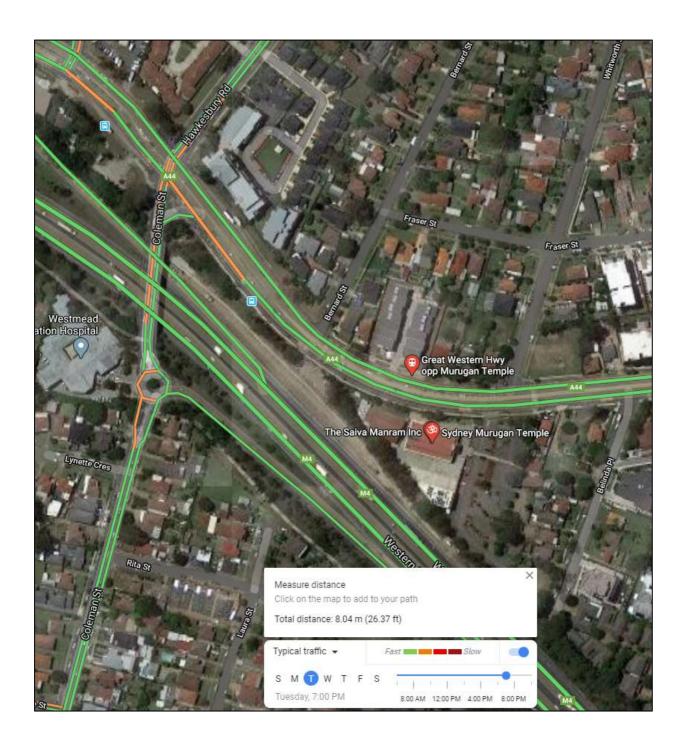
In addition to the above, TTPA considers that the existing driveway off the GWH should be retained based on the following reasons:

- It is apparent that the removal of access off the GWH will result in an increase of traffic on Belinda Place which would impact the performance of Belinda Place/Great Western Highway intersection, the environmental capacity of Belinda Place and the residential amenity of neighbouring properties (See Sections 5.3 and 5.4 for details).
- The peak weekday vehicle activity at the Temple occurs between 7.00 pm and 8.30 pm, which is the most popular time for worshippers to visit the Temple. See the visitation profile below derived from the survey provided in Appendix A.

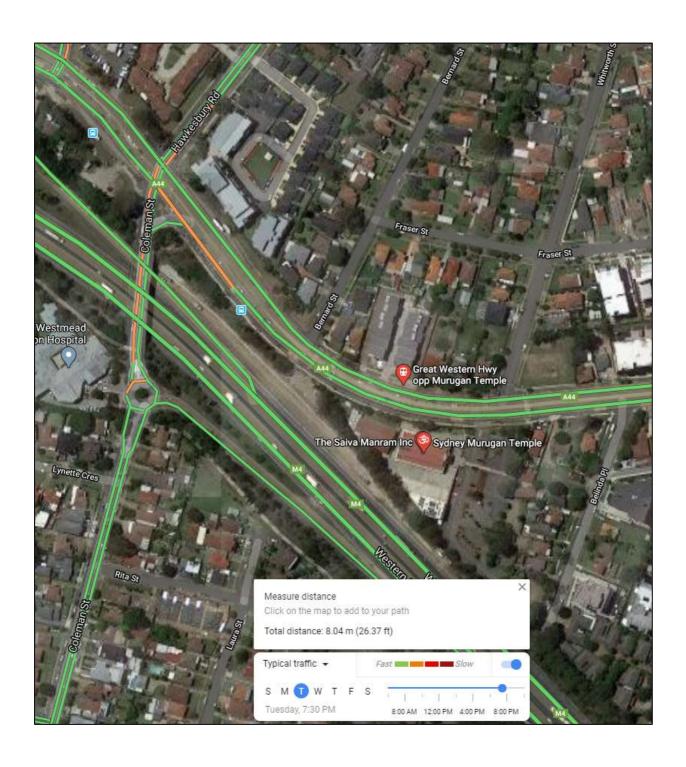


Adequate gaps are available in the westbound traffic flow on the GWH to enable
vehicles to enter and exit the Temple's driveway without any adverse impact on
the GWH traffic movements. See the following snapshots of Google Traffic
along The Great Western Highway adjacent to the site.

#### Tuesday at 7.00 pm



#### Tuesday at 7.30pm



#### Tuesday at 8.00 pm



The above traffic data is also confirmed by the TfNSW Traffic Volume Viewer for the count station on Great Western Highway east of Liverpool-Parramatta Transitway, as shown in the following figure.



Source: <a href="https://www.rms.nsw.gov.au/about/corporate-publications/statistics/traffic-volumes/aadt-map/index.html#/?z=16&q=Mays%20Hill%20NSW,%20Australia&id=68025&df=1&yr=2020">https://www.rms.nsw.gov.au/about/corporate-publications/statistics/traffic-volumes/aadt-map/index.html#/?z=16&q=Mays%20Hill%20NSW,%20Australia&id=68025&df=1&yr=2020</a>

The traffic profile indicates that the peak period of the westbound traffic occurs between 5 pm and 6 pm, with a significant drop in volumes after 7.00 pm (i.e., during the peak visitation time for the Temple).

- There is a Bus Lane along the westbound kerbside lane. However, a review of the bus timetables for routes 810X and 811X indicates there are only 4 buses along the GWH during the PM peak hours and only 3 buses during the Temple's peak hours between 7.00 pm and 8.30 pm (See the following figure).



The location and nature of the existing Temple driveway offer significant benefits and avoids any adverse traffic impacts as follows:

- The driveway has very generous provision for ingress and egress movements which can be made smoothly and expeditiously
- The left-turn ingress is from an infrequently utilised bus lane (i.e., acts as a de facto deceleration lane)
- The driveway is located just downstream of the Whitworth Street intersection traffic signals (which are heavily utilised during the Temple's visitation times) and the traffic operation facilitates the driveway egress (i.e., gaps provided in the westbound flow)

There is a significant segregated queuing area (24m) within the side before ingressing cars travel past parking spaces. See the following figure.



There is an extensive 7.8m-wide one-way aisle to ensure passing opportunity should the first vehicle is waiting on the aisle for another car to exit the parking spaces. See the following figure.



The left-turn egress can be made into the Bus Lane without impacting the traffic movements in Lanes 2 and 3. These vehicles can slowly and safely merge onto the westbound through lanes, especially for heavy vehicles out of the site.

It is considered that the traffic generated by the proposed carpark development will have a negligible impact on the traffic movements (including buses) along the GWH.

The existing Temple's driveway on the GWH offers traffic-related benefits not only to the Temple's visitors but also to the general traffic along Great Western Highway and community along surrounding local roads:

- Left turning out of the GWH access will reduce the number of vehicles having to travel past the intersection of Whitworth/ Great Western Highway, thus increasing the capacity of this intersection
- The existing driveway allows faster dispersal of traffic from the site, minimising the traffic impact on Belinda Place, thus, ensuring that the environmental capacity of Belinda Place is not exceeded during special Temple events.

### 10.0 Road Safety

Road safety audit findings by J. Wyndham Prince and associated TTPA's response are provided in Appendix G.

### 11.0 Conclusion

The traffic and parking assessment undertaken in relation to the proposed multi-storey carpark for the existing Murugan Temple use only has concluded that:

- ❖ The proposed carpark can accommodate the car parking demand associated with the existing Temple use and cultural hall as well as the special functions/major events with up to 1,100 attendees.
- ❖ The car parking provision are in accordance with the DCP requirements for the existing Temple and cultural hall use.
- The existing roadway width of Belinda Place is adequate and appropriate for the intended use of the proposed multi-storey carpark
- the proposed vehicle access on Belinda Place is in accordance with AS2890.1 and 2 design standards, and is suitable and appropriate
- the internal circulation and parking and servicing arrangements will be in accordance with the current AS2890.1, 2 and 6 design standards
- there will be no adverse traffic implications resultant to the proposed development to accommodate the existing Temple use with the retention of the existing driveway off the GWH.
- The removal of the existing driveway off the GWH will result in Belinda Place (collector) exceeding its absolute maximum environmental capacity.
- All safety concerns raised within the road safety audit findings by J. Wyndham Prince have been addressed in Appendix G.

### Appendix A

Travel Survey Data



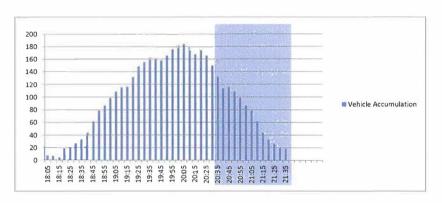
#### SAIVA MANRAM

#### TRAFFIC AND POPULATION SURVEY

		CARS		PASS	ENGERS	PED <b>E</b> S	TRIANS	Accumulation	Persons Per C
TIME	1N	OUT	Accu	IN	OUT	IN	OUT	of attendees	l
18:00									1
18:0S	10	2	8	21	5	7	0	23	2.8
18:10	4	5	7	7	8	3	0	25	2.5
18:15	1	3	5	1	9	5	2	20	6.0
18:20	15	1	19	28	3	1	2	44	1.9
18:25	6	5	20	13	10	4	2	49	2.8
18:30	10	3	27	25	6	6	1	73	3.1
18:35	7	1	33	13	2	7	5	86	2.9
18:40	14	3	44	27	8	14	0	119	2.9
18:45	22	4	62	40	9	6	0	156	2.1
18:50	21	4	79	41	5	19	0	211	2.9
18:55	11	3	87	25	6	6	0	236	2.8
19:00	16	4	99	34	8	3	0	265	2.3
19:05	15	5	109	33	10	4	8	284	2.5
19:10	14	7	116	30	16	3	0	301	2.4
19:15	5	4	117	12	12	22	0	323	6.8
19:20	18	3	132	32	5	10	4	356	2.3
19:25	21	4	149	54	10	14	6	408	3.2
19:30	10	3	156	22	6	11	8	427	3.3
19:35	16	9	163	33	19	12	8	445	2.8
19:40	7	8	162	23	12	8	12	452	4.4
19:45	3	7	158	11	19	13	7	450	8.0
19:50	16	8	166	27	19	5	4	459	2.0
19:55	14	4	176	36	9	11	3	494	3.4
20:00	20	13	183	46	21	8	7	520	2.7
20:05	4	2	185	10	9	6	5	522	4.0
20:10	4	8	181	7	16	2	8	507	2.3
20:15	2	15	168	3	32	6	11	473	4.5
20:20	13	5	176	31	10	4	13	485	2.7
20:25	9	19	166	22	34	2	4	471	2.7
20:30	0	16	150	0	27	0	4	440	#DIV/0!
20:35			132						
20:40			114						
20:45			116						
20:50			109						
20:55			99						
21:00			87						
21:05			79						
21:10			62						
21:15			44						
21:20			33						
21:25			27						
21:30			20						
21:35			19					_	
	328	178		707	365	222	124		2.8

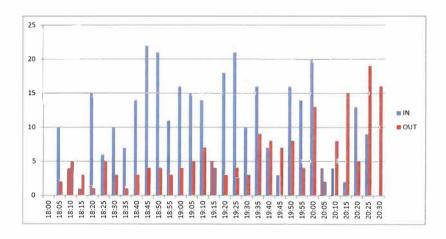
Persons Per car

- 3.3 Average
- 8.0 Maximum
- 1.9 Minimum



Max Accu Cars

185.0 522.0 People



Appendix B

**Traffic Survey** 



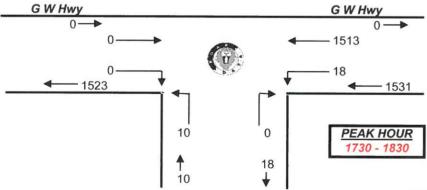


R.O.A.R. DATA
Reliable, Original & Authentic Results

Ph.88196847	, Fax 88196849,	Mob.0418-239019
-------------	-----------------	-----------------

<b>All Vehicles</b>		EST		UTH	W	ST	1
	G W Hwy		Belinda Pl		GW	1	
Time Per	<u>R</u>	I	<u>L</u>	R	I	L	TOTAL
1600 - 1615			3		368	4	375
1615 - 1630			2		350	2	354
1630 - 1645			2		371	6	379
1645 - 1700			4		413	3	420
1700 - 1715			2		442	7	451
1715 - 1730			3		410	4	417
1730 - 1745			3		415	6	424
1745 - 1800			2		411	3	416
1800 - 1815			1		406	4	411
1815 - 1830			4		281	281 5	
1830 - 1845			1		306	306 4	
1845 - 1900			3		252	252 3	
Period End	0	0	30	0	4425	51	4506

	W	EST	so	UTH	EA	EAST G W Hwy		
_	GV	/ Hwy	Belin	da Pl	GW			
Peak Per	R	I	L	<u>R</u>	I	L	TOTAL	
1600 - 1700	0	0	11	0	1502	15	1528	
1615 - 1715	0	0	10	0	1576	18	1604	
1630 - 1730	0	0	11	0	1636	20	1667	
1645 - 1745	0	0	12	0	1680	1680 20		
1700 - 1800	0	0	10	0	1678	20	1708	
1715 - 1815	0	0	9	0	1642	17	1668	
1730 - 1830	0	0	10	0	1513	18	1541	
1745 - 1845	0	0	8	0	1404	16	1428	
1800 - 1900	0	0	9	0	1245	1245 16		
PEAK HR	0	0	10	0	1513	18	1541	



Belinda Pl

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Client

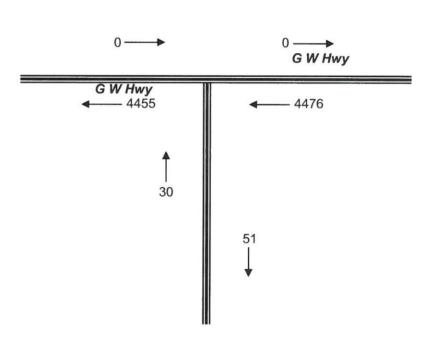
: T.T.P.A.

Job No/Name

: 2833 MAYS HILL Temple Counts : Friday 19th August 2016

Day/Date





Belinda Pl



PEAK HR

16

766

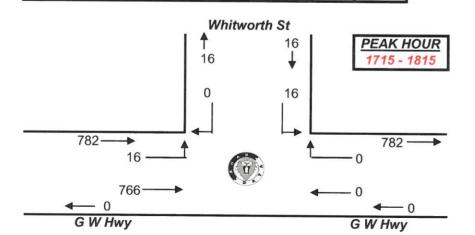
R.O.A.R. DATA
Reliable, Original & Authentic Results

Ph.88196847, Fax 88196849, Mob.0418-239019

All Vehicles	W	EST	NO	RTH	EA	AST	1
	G W	Hwy	Whitw	orth St	G W	Hwy	
Time Per	LI		R	Ī	Ī	R	TOTAL
1600 - 1615	3	189		2			194
1615 - 1630	5	221		3			229
1630 - 1645	2	163		2			167
1645 - 1700	2	190		3			195
1700 - 1715	4 152		5				161
1715 - 1730	3	190	3				196
1730 - 1745	5	209		6			220
1745 - 1800	5	188		3			196
1800 - 1815	3	179		4			186
1815 - 1830	5	152		2			159
1830 - 1845	4 155		3				162
1845 - 1900	5	145		2			152
Period End	46	2133	0	38	0	0	2217

7	ST	EA	RTH	NOI	ST	WE	
1	Hwy	G W	orth St	Whitwo	Hwy	G W	
TOTAL	R	I	Ī	<u>R</u>	I	Ē	Peak Per
785	0	0	10	0	763	12	1600 - 1700
752	0	0	13	0	726	13	1615 - 1715
719	0	0	13	0	695	11	1630 - 1730
772	0	0	17	0 17		14	1645 - 1745
773	0	0	17	0	739	17	1700 - 1800
798	0	0	16	0	766	16	1715 - 1815
761	0	0	15	0	728	18	1730 - 1830
703	0	0 0		0 12		17	1745 - 1845
659	0	0	11	0	631	17	1800 - 1900

0



16

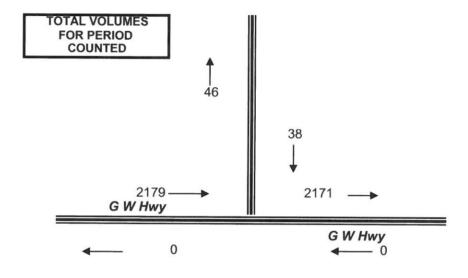
798

Client : T.T.P.A.

Job No/Name: 2833 MAYS HILL Temple Counts

Day/Date : Friday 19th August 2016

#### Whitworth St





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# TIS ATC REPORT SOUTHBOUND

#### **BELINDA PLACE35 -- English (ENA)**

Datasets:

Site: [BELINDA PLACE] BELINDA PLACE

Attribute: MAYS HILL

**Direction:** 3 - South bound, A trigger first. **Lane:** 2

Survey Duration: 2:04 Friday, 20 September 2019 => 19:28 Thursday, 3 October 2019,

Zone:

File: BELINDA PLACE 0 2019-10-03 1928.EC2 (Plus ) Identifier: QX929SWV MC5900-X13 (c)MetroCount 09Nov16

**Algorithm:** Factory default axle (v5.02)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 2:05 Friday, 20 September 2019 => 0:00 Saturday, 21 September 2019 (0.913194)

**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

**Speed range:** 10 - 160 km/h. **Direction:** BA , Lane = 0-16

**Separation:** Headway > 0 sec, Span 0 - 100 metre

Name: TIS-BA

**Scheme:** Vehicle classification (AustRoads94)

**Units:** Metric (metre, kilometre, m/s, km/h, kg, tonne)

Column Legend:

**0** [Time] 24-hour time (0000 - 2359)

1 [Total] Number in time step

2 [CIs] Class totals3 [Mean] Average speed4 [Vpp] Percentile speed



#### \* Friday, 20 September 2019

Time	Total	Cls	Mean	Vpp											
		1	2	3	4	5	6	7	8	9	10	11	12		85
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	_	-
0500	4	4	0	0	0	0	0	0	0	0	0	0	0	28.2	-
0600	7	7	0	0	0	0	0	0	0	0	0	0	0	29.2	-
0700	8	8	0	0	0	0	0	0	0	0	0	0	0	29.5	_
0800	13	13	0	0	0	0	0	0	0	0	0	0	0	30.4	35.3
0900	3	3	0	0	0	0	0	0	0	0	0	0	0	22.4	-
1000	1	1	0	0	0	0	0	0	0	0	0	0	0	19.0	-
1100	4	4	0	0	0	0	0	0	0	0	0	0	0	22.2	-
1200	1	1	0	0	0	0	0	0	0	0	0	0	0	46.4	-
1300	3	3	0	0	0	0	0	0	0	0	0	0	0	27.9	-
1400	4	4	0	0	0	0	0	0	0	0	0	0	0	24.4	-
1500	6	6	0	0	0	0	0	0	0	0	0	0	0	24.1	-
1600	6	6	0	0	0	0	0	0	0	0	0	0	0	26.8	-
1700	2	2	0	0	0	0	0	0	0	0	0	0	0	31.9	_
1800	5	5	0	0	0	0	0	0	0	0	0	0	0	23.2	-
1900	11	11	0	0	0	0	0	0	0	0	0	0	0	21.7	30.4
2000	5	5	0	0	0	0	0	0	0	0	0	0	0	22.9	-
2100	5	5	0	0	0	0	0	0	0	0	0	0	0	30.9	-
2200	1	1	0	0	0	0	0	0	0	0	0	0	0	30.2	-
2300	1	1	0	0	0	0	0	0	0	0	0	0	0	32.1	-
07-19	56	56	0	0	0	0	0	0	0	0	0	0	0	27.1	34.0
06-22	84	84	0	0	0	0	0	0	0	0	0	0	0	26.6	33.8
06-00	86	86	0	0	0	0	0	0	0	0	0	0	0	26.7	33.8
00-00	90	90	0	0	0	0	0	0	0	0	0	0	0	26.7	33.4

In profile: Vehicles = 90 / 705 (12.77%)



## TIS ATC REPORT NORTHBOUND

#### **BELINDA PLACE34 -- English (ENA)**

Datasets:

Site: [BELINDA PLACE] BELINDA PLACE

Attribute: MAYS HILL

**Direction:** 3 - South bound, A trigger first. **Lane:** 2

Survey Duration: 2:04 Friday, 20 September 2019 => 19:28 Thursday, 3 October 2019,

Zone:

File: BELINDA PLACE 0 2019-10-03 1928.EC2 (Plus ) Identifier: QX929SWV MC5900-X13 (c)MetroCount 09Nov16

**Algorithm:** Factory default axle (v5.02)

Data type: Axle sensors - Paired (Class/Speed/Count)

Profile:

Filter time: 2:05 Friday, 20 September 2019 => 0:00 Saturday, 21 September 2019 (0.913194)

**Included classes:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

**Speed range:** 10 - 160 km/h. **Direction:** AB , Lane = 0-16

**Separation:** Headway > 0 sec, Span 0 - 100 metre

Name: TIS-AB

**Scheme:** Vehicle classification (AustRoads94)

**Units:** Metric (metre, kilometre, m/s, km/h, kg, tonne)

Column Legend:

0 [Time] 24-hour time (0000 - 2359)1 [Total] Number in time step

2 [CIs] Class totals
3 [Mean] Average speed
4 [Vpp] Percentile speed



*	Friday.	20	Septem	ber	2019
---	---------	----	--------	-----	------

Time	Total	Cls	Mean	Vpp											
		1	2	3	4	5	6	7	8	9	10	11	12		85
0200	0	0	0	0	0	0	0	0	0	0	0	0	0	-	_
0300	0	0	0	0	0	0	0	0	0	0	0	0	0	_	-
0400	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
0500	0	0	0	0	0	0	0	0	0	0	0	0	0	-	_
0600	5	5	0	0	0	0	0	0	0	0	0	0	0	33.2	_
0700	4	4	0	0	0	0	0	0	0	0	0	0	0	30.1	-
0800	4	4	0	0	0	0	0	0	0	0	0	0	0	27.5	_
0900	3	3	0	0	0	0	0	0	0	0	0	0	0	31.3	_
1000	2	2	0	0	0	0	0	0	0	0	0	0	0	31.3	_
1100	1	1	0	0	0	0	0	0	0	0	0	0	0	40.6	_
1200	3	3	0	0	0	0	0	0	0	0	0	0	0	39.3	-
1300	1	1	0	0	0	0	0	0	0	0	0	0	0	29.6	_
1400	3	3	0	0	0	0	0	0	0	0	0	0	0	43.5	_
1500	5	5	0	0	0	0	0	0	0	0	0	0	0	29.7	_
1600	9	9	0	0	0	0	0	0	0	0	0	0	0	26.6	_
1700	11	11	0	0	0	0	0	0	0	0	0	0	0	30.8	43.6
1800	12	12	0	0	0	0	0	0	0	0	0	0	0	29.2	38.4
1900	4	4	0	0	0	0	0	0	0	0	0	0	0	25.6	_
2000	10	10	0	0	0	0	0	0	0	0	0	0	0	27.1	_
2100	6	6	0	0	0	0	0	0	0	0	0	0	0	29.5	_
2200	6	6	0	0	0	0	0	0	0	0	0	0	0	27.9	_
2300	2	2	0	0	0	0	0	0	0	0	0	0	0	29.5	_
07-19	58	58	0	0	0	0	0	0	0	0	0	0	0	30.7	38.7
06-22	83	83	0	0	0	0	0	0	0	0	0	0	0	30.1	38.6
06-00	91	91	0	0	0	0	0	0	0	0	0	0	0	30.0	38.4
00-00	91	91	0	0	0	0	0	0	0	0	0	0	0	30.0	38.4

In profile: Vehicles = 91 / 705 (12.91%)



Location	-	Duration	16:00 - 19:00
	Great Western Highway		-
	Burnett Street		-
_	Great Western Highway	Day/Date	Friday, 20 September 2019
Suburb	WENTWORTHVILLE	Weather	-
_			

All	Vehicle	es_				NOR	RTH									EA	ST						
Time	Per 15 l	Mins				-									Grea	at Weste	rn Higl	hway					
			L			I			<u>R</u>				L			I		<u>R</u>			<u>TO</u>	TAL_	TOTAL
			LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT HEAVY	Σ	OTAL	LIGHT	HEAVY	IOIAL
16:00	- :	16:15										97	0	97	258	10	268			365	673	22	695
16:15	- :	16:30										117	0	117	312	5	317			434	758	9	767
16:30	- :	16:45										85	1	86	308	8	316			402	767	18	785
16:45	- :	17:00										93	3	96	280	6	286			382	687	16	703
17:00	- :	17:15										138	1	139	247	10	257			396	708	19	727
17:15		17:30										123	1	124	290	11	301			425	754	18	772
17:30	- :	17:45										107	2	109	290	10	300			409	736	23	759
17:45	- :	18:00										121	2	123	313	10	323			446	783	19	802
18:00		18:15										100	0	100	237	7	244			344	664	12	676
18:15		18:30										92	0	92	304	5	309			401	722	10	732
18:30		18:45										90	0	90	256	11	267			357	674	13	687
18:45		19:00										69	3	72	235	6	241			313	636	14	650
Pe	riod En	nd										1232	13	1245	3330	99	3429		4	4674	8562	193	8755

All	Veh	icle	es					sou	JTH								WE	ST							
Time	Per '	15	Mins					Burnet	t Street	t						Gre	at Weste	ern Higl	hway						
					L			I			<u>R</u>			L			I			<u>R</u>			TO	TAL_	TOTAL
				LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	TOTAL
16:00	-		16:15	15	0	15				83	3	86	101			154	9	163	66	0	66	229	673	22	695
16:15	-		16:30	12	0	12				91	1	92	104			174	3	177	52	0	52	229	758	9	767
16:30	-		16:45	20	0	20				97	0	97	117			175	9	184	82	0	82	266	767	18	785
16:45	-		17:00	13	0	13				99	1	100	113			138	6	144	64	0	64	208	687	16	703
17:00	-		17:15	9	0	9				94	0	94	103			152	7	159	68	1	69	228	708	19	727
17:15	-		17:30	12	0	12				105	0	105	117			156	5	161	68	1	69	230	754	18	772
17:30	-		17:45	4	0	4				99	3	102	106			178	8	186	58	0	58	244	736	23	759
17:45	-		18:00	9	0	9				96	1	97	106			199	6	205	45	0	45	250	783	19	802
18:00	-		18:15	11	0	11				98	0	98	109			171	4	175	47	1	48	223	664	12	676
18:15	-		18:30	13	0	13				82	0	82	95			185	5	190	46	0	46	236	722	10	732
18:30	-		18:45	13	0	13				73	0	73	86			185	2	187	57	0	57	244	674	13	687
18:45	-		19:00	21	0	21				88	0	88	109			176	4	180	47	1	48	228	636	14	650
Pe	riod	En	nd	152	0	152				1105	9	1114	1266			2043	68	2111	700	4	704	2815	8562	193	8755



Location	-	<b>Duration</b>	16:00 - 19:00
	Great Western Highway		-
	Burnett Street	_	-
_	Great Western Highway	Day/Date	Friday, 20 September 2019
Suburb	WENTWORTHVILLE	Weather	-
	·	_	•

<u>All</u>	Vehic	cles				NOF	RTH									EA	ST				Ī		
Time	Per	Hour				-									Grea	t Weste	ern Higl	nway					
			L			Ţ			<u>R</u>				L			I		<u>R</u>			TO	TAL	TOTAL
			LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-	17:00										392	4	396	1158	29	1187			1583	2885	65	2950
16:15	-	17:15										433	5	438	1147	29	1176			1614	2920	62	2982
16:30	-	17:30										439	6	445	1125	35	1160			1605	2916	71	2987
16:45	-	17:45										461	7	468	1107	37	1144			1612	2885	76	2961
17:00	-	18:00										489	6	495	1140	41	1181			1676	2981	79	3060
17:15	-	18:15										451	5	456	1130	38	1168			1624	2937	72	3009
17:30	-	18:30										420	4	424	1144	32	1176			1600	2905	64	2969
17:45	-	18:45										403	2	405	1110	33	1143			1548	2843	54	2897
18:00	-	19:00										351	3	354	1032	29	1061			1415	2696	49	2745
Pei	riod E	nd										3839	42	3881	10093	303	10396			14277	25968	592	26560

<u>All</u>	Vehi	cles					SOL	JTH								WE	ST					Ī		
Time	Per	Hour					Burnett	Street	•						Grea	at Weste	rn Higl	hway						
				L			I			<u>R</u>			L			I			<u>R</u>			<u>TO</u>	TAL_	TOTAL
			LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-	17:00	60	0	60				370	5	375	435			641	27	668	264	0	264	932	2885	65	2950
16:15	-	17:15	54	0	54	"			381	2	383	437			639	25	664	266	1	267	931	2920	62	2982
16:30	-	17:30	54	0	54	"			395	1	396	450			621	27	648	282	2	284	932	2916	71	2987
16:45	-	17:45	38	0	38				397	4	401	439			624	26	650	258	2	260	910	2885	76	2961
17:00	-	18:00	34	0	34				394	4	398	432			685	26	711	239	2	241	952	2981	79	3060
17:15	-	18:15	36	0	36				398	4	402	438			704	23	727	218	2	220	947	2937	72	3009
17:30	-	18:30	37	0	37				375	4	379	416			733	23	756	196	1	197	953	2905	64	2969
17:45	-	18:45	46	0	46				349	1	350	396			740	17	757	195	1	196	953	2843	54	2897
18:00	-	19:00	58	0	58				341	0	341	399			717	15	732	197	2	199	931	2696	49	2745
Pei	riod l	End	417	0	417				3400	25	3425	3842			6104	209	6313	2115	13	2128	8441	25968	592	26560



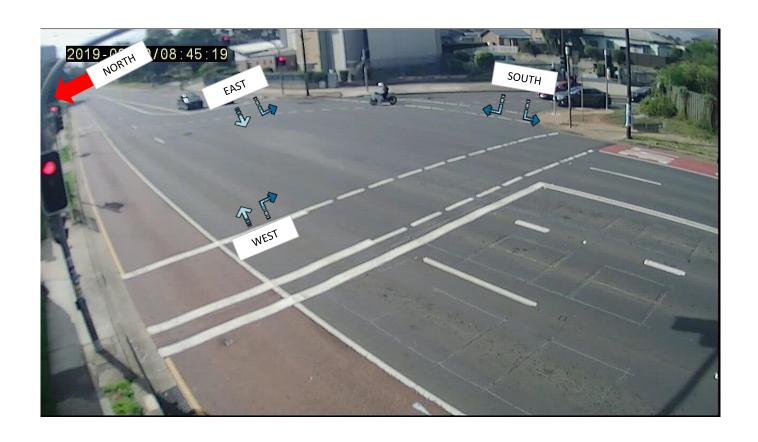
Location			-			Duration _		16:00 -	19:00				
			Great Wester	rn Highway		_		-					
			Burnett	Street		_		-					
			Great Wester	rn Highway		Day/Date _	Friday	, 20 Septe	ember 20	19			
Suburb			WENTWO	RTHVILLE		Weather _		-					
DA.	TA SELECTIO	N									Т	IME RANG	F
	me: PEAK	~									PEAK	-	PM
												PEAK	
											17:00	-	18:00
								(					
									<b>_</b>				
TOTAL													
1215	41	1174						Great W	estern H	ighway			
					•								
711	26	685						1140	41	1181			
,			<b>V</b>				<b>A</b>	1110	12	1101			
241	2	239			_		<b></b> "	489	6	495			
			•										
							1100	1079	30	1109			
Great W	estern High	way				•				TOTAL			
	_						<b> </b>		• •	IOIAL			
				34	394	728	1_						
			o o	0	4	8	tree						
			TOTAL	34	398	736	ett S						
							Burnett Street						
							]						
						ı							

Traffic Information Specialist

ABN: 42 613 389 923 Email info@tistraffic.com.au

Intersection Name	WENTWORTHVILLE
NORTH	•
EAST	Great Western Highway
SOUTH	Burnett Street
WEST	Great Western Highway

Dat	e & Time of Count
Date (mm/dd/yy)	20/09/2019
Start Time	16:00
End Time	19:00





Location	Brigde Street	<b>Duration</b>	16:00 - 19:00
	Great Western Highway		-
	-		-
	Great Western Highway	Day/Date	Monday, 20 September 2010
Suburb	WENTWORTHVILLE	Weather	-

All	Vehi	cles					NOF	RTH									EA	ST							
Time	Per 1	5 Mins					Brigde	Street	t							Gre	at Weste	rn Higi	hway						
				<u>L</u>			<u>T</u>			<u>R</u>				Ŀ			I			<u>R</u>			<u>TO</u>	TAL	TOTAL
			LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-	16:15	50	0	50				55	0	55	105				415	17	432	66	0	66	498	776	27	803
16:15	-	16:30	51	0	51				74	1	75	126				471	9	480	83	0	83	563	905	15	920
16:30	-	16:45	39	4	43				58	1	59	102				465	10	475	89	2	91	566	861	26	887
16:45	-	17:00	41	1	42				91	0	91	133				430	14	444	90	0	90	534	851	22	873
17:00	-	17:15	39	0	39				67	0	67	106				472	12	484	92	0	92	576	894	21	915
17:15	-	17:30	54	1	55				85	0	85	140				423	14	437	83	0	83	520	860	23	883
17:30	-	17:45	48	0	48				51	1	52	100				501	11	512	88	0	88	600	949	19	968
17:45	-	18:00	47	2	49				72	0	72	121				430	14	444	86	1	87	531	897	24	921
18:00	-	18:15	46	0	46				44	0	44	90				358	8	366	85	0	85	451	772	15	787
18:15	-	18:30	38	0	38				58	2	60	98				389	7	396	75	0	75	471	801	14	815
18:30	-	18:45	31	0	31				49	2	51	84				345	8	353	72	0	72	425	756	14	770
18:45	-	19:00	34	0	34				42	0	42	76				319	9	328	59	0	59	387	686	14	700
Pe	riod	End	518	8	526				746	7	753	1281				5018	133	5151	968	3	971	6122	10008	234	10242

All Veh	nicles_			sou	ΙΤΗ								WE	ST							
Time Per	15 Mins			-								Gre	at Weste	rn Hig	hway						
		L		I		<u>R</u>				L			<u>T</u>			<u>R</u>			<u>TO</u>	TAL	TOTAL
		LIGHT HEAVY	Σ L	LIGHT HEAVY	Σ	LIGHT HEAVY	Σ	<u>TOTAL</u>	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00 -	16:15								9	0	9	181	10	191				200	776	27	803
16:15 -	16:30								6	1	7	220	4	224				231	905	15	920
16:30 -	16:45								7	0	7	203	9	212				219	861	26	887
16:45 -	17:00								6	0	6	193	7	200				206	851	22	873
17:00 -	17:15								16	0	16	208	9	217				233	894	21	915
17:15 -	17:30								21	0	21	194	8	202				223	860	23	883
17:30 -	17:45								16	0	16	245	7	252				268	949	19	968
17:45 -	18:00								18	1	19	244	6	250				269	897	24	921
18:00 -	18:15								12	1	13	227	6	233				246	772	15	787
18:15 -	18:30								11	0	11	230	5	235				246	801	14	815
18:30 -	18:45								15	0	15	242	4	246				261	756	14	770
18:45 -	19:00								17	0	17	215	5	220				237	686	14	700
Period	l End								154	3	157	2602	80	2682				2839	10008	234	10242

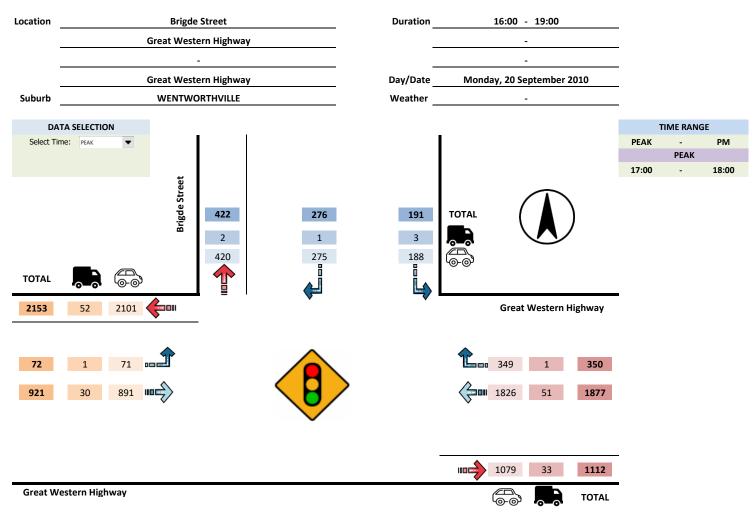


Location	Brigde Street	Duration	16:00 - 19:00
	Great Western Highway		-
_		•	-
_	Great Western Highway	Day/Date	Monday, 20 September 2010
Suburb	WENTWORTHVILLE	Weather	-

All	Vehi	icles					NOF	RTH									EA	ST							
Time	e Per	Hour					Brigde	Street								Grea	at Weste	ern Higi	hway						
				L			I			<u>R</u>				Ŀ			I			<u>R</u>			TO	TAL_	TOTAL
			LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-	17:00	181	5	186				278	2	280	466				1781	50	1831	328	2	330	2161	3393	90	3483
16:15	-	17:15	170	5	175				290	2	292	467				1838	45	1883	354	2	356	2239	3511	84	3595
16:30	-	17:30	173	6	179				301	1	302	481				1790	50	1840	354	2	356	2196	3466	92	3558
16:45	-	17:45	182	2	184				294	1	295	479				1826	51	1877	353	0	353	2230	3554	85	3639
17:00	-	18:00	188	3	191				275	1	276	467				1826	51	1877	349	1	350	2227	3600	87	3687
17:15	-	18:15	195	3	198				252	1	253	451				1712	47	1759	342	1	343	2102	3478	81	3559
17:30	-	18:30	179	2	181				225	3	228	409				1678	40	1718	334	1	335	2053	3419	72	3491
17:45	-	18:45	162	2	164				223	4	227	393				1522	37	1559	318	1	319	1878	3226	67	3293
18:00	-	19:00	149	0	149				193	4	197	348				1411	32	1443	291	0	291	1734	3015	57	3072
Pe	riod	End	1579	28	1607				2331	19	2350	3961				15384	403	15787	3023	10	3033	18820	30662	715	31377

All	Vehi	cles				SOL	JTH									WE	ST							
Tim	e Per	Hour													Grea	at Weste	rn Hig	hway						
			L			Ţ			<u>R</u>				Ŀ			<u>T</u>			<u>R</u>			<u>TO</u>	TAL	TOTAL
			LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-	17:00										28	1	29	797	30	827				856	3393	90	3483
16:15	-	17:15										35	1	36	824	29	853				889	3511	84	3595
16:30	-	17:30										50	0	50	798	33	831				881	3466	92	3558
16:45	-	17:45										59	0	59	840	31	871				930	3554	85	3639
17:00	-	18:00										71	1	72	891	30	921				993	3600	87	3687
17:15	-	18:15										67	2	69	910	27	937				1006	3478	81	3559
17:30	-	18:30										57	2	59	946	24	970				1029	3419	72	3491
17:45	-	18:45										56	2	58	943	21	964				1022	3226	67	3293
18:00	-	19:00										55	1	56	914	20	934				990	3015	57	3072
Pe	riod	End										478	10	488	7863	245	8108				8596	30662	715	31377





**Traffic Information Specialist** 

ABN: 42 613 389 923 Email info@tistraffic.com.au

Intersection Name	WENTWORTHVILLE
NORTH	Brigde Street
EAST	Great Western Highway
SOUTH	•
WEST	Great Western Highway

Dat	e & Time of Count
Date (mm/dd/yy)	20/09/2010
Start Time	16:00
End Time	19:00





Location	Coleman Street	Duration	16:00 - 19:00
			-
	Coleman Street		-
	Northmead Rehabilitation Hospital	Day/Date	Friday, 20 September 2019
Suburb	MERRYLANDS	Weather	-

All Vehicles					NORTH													EAST							
Time Per 15 Mins				Co	leman St	treet												0							
	<u>L</u>		<u>T</u>			<u>R</u>			<u>U</u>				L			I			<u>R</u>		<u>U</u>		<u>T01</u>	AL	TOTAL
	LIGHT HEAVY $\Sigma$	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT HEAVY <b>\Sigma</b>	TOTAL	LIGHT	HEAVY	IOIAL
16:00 - 16:15		99	2	101	1	0	1	3	0	3	105	44	1	45	1	0	1	121	3	124		170	350	6	356
16:15 - 16:30		107	0	107	1	0	1	0	0	0	108	47	1	48	0	0	0	134	5	139		187	386	7	393
16:30 - 16:45		107	6	113	2	0	2	0	0	0	115	56	2	58	0	0	0	132	1	133		191	393	9	402
16:45 - 17:00		97	1	98	2	0	2	2	0	2	102	46	1	47	0	0	0	148	3	151		198	383	5	388
17:00 - 17:15		108	2	110	1	0	1	1	1	2	113	40	3	43	1	0	1	118	2	120		164	349	8	357
17:15 - 17:30		94	1	95	2	0	2	0	0	0	97	69	1	70	2	0	2	157	2	159		231	410	6	416
17:30 - 17:45		98	1	99	1	0	1	1	0	1	101	48	1	49	0	0	0	170	0	170		219	415	2	417
17:45 - 18:00		93	0	93	0	1	1	2	0	2	96	40	1	41	0	0	0	137	3	140		181	365	6	371
18:00 - 18:15		112	1	113	1	0	1	1	0	1	115	26	1	27	0	0	0	101	1	102		129	333	3	336
18:15 - 18:30		97	1	98	2	0	2	1	0	1	101	29	0	29	1	0	1	86	0	86		116	304	1	305
18:30 - 18:45		88	1	89	3	0	3	5	0	5	97	23	0	23	0	0	0	77	2	79		102	269	3	272
18:45 - 19:00		59	1	60	2	0	2	4	0	4	66	21	0	21	1	0	1	61	0	61		83	206	1	207
Period End		1159	17	1176	18	1	19	20	1	21	1216	489	12	501	6	0	6	1442	22	1464		1971	4163	57	4220

A	II Veh	icles							SOUTH											WEST									
Time	e Per	15 Mins						Co	eman Street									Northm	ead F	Rehabili	tation Ho	spital							
				L			<u>T</u>		<u>R</u>			<u>U</u>				<u>L</u>		Ţ			<u>R</u>			<u>U</u>			TO	TAL	TOTAL
			LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-	16:15	1	0	1	78	0	78			0	0	0	79	2	0	2			0	0	0	0	0	0	2	350	6	356
16:15	-	16:30	0	0	0	92	1	93			1	0	1	94	2	0	2			2	0	2	0	0	0	4	386	7	393
16:30	-	16:45	3	0	3	90	0	90			0	0	0	93	1	0	1			2	0	2	0	0	0	3	393	9	402
16:45	-	17:00	0	0	0	80	0	80			1	0	1	81	5	0	5			2	0	2	0	0	0	7	383	5	388
17:00	-	17:15	2	0	2	74	0	74			1	0	1	77	1	0	1			2	0	2	0	0	0	3	349	8	357
17:15	-	17:30	1	0	1	79	2	81			3	0	3	85	1	0	1			2	0	2	0	0	0	3	410	6	416
17:30	-	17:45	1	0	1	93	0	93			0	0	0	94	2	0	2			1	0	1	0	0	0	3	415	2	417
17:45	-	18:00	0	0	0	90	0	90			1	0	1	91	1	1	2			1	0	1	0	0	0	3	365	6	371
18:00	-	18:15	1	0	1	86	0	86			1	0	1	88	3	0	3			1	0	1	0	0	0	4	333	3	336
18:15	-	18:30	2	0	2	82	0	82			0	0	0	84	4	0	4			0	0	0	0	0	0	4	304	1	305
18:30	-	18:45	1	0	1	71	0	71			1	0	1	73	0	0	0			0	0	0	0	0	0	0	269	3	272
18:45	-	19:00	0	0	0	55	0	55			0	0	0	55	2	0	2			1	0	1	0	0	0	3	206	1	207
P	eriod	End	12	0	12	970	3	973			9	0	9	994	24	1	25			14	0	14	0	0	0	39	4163	57	4220

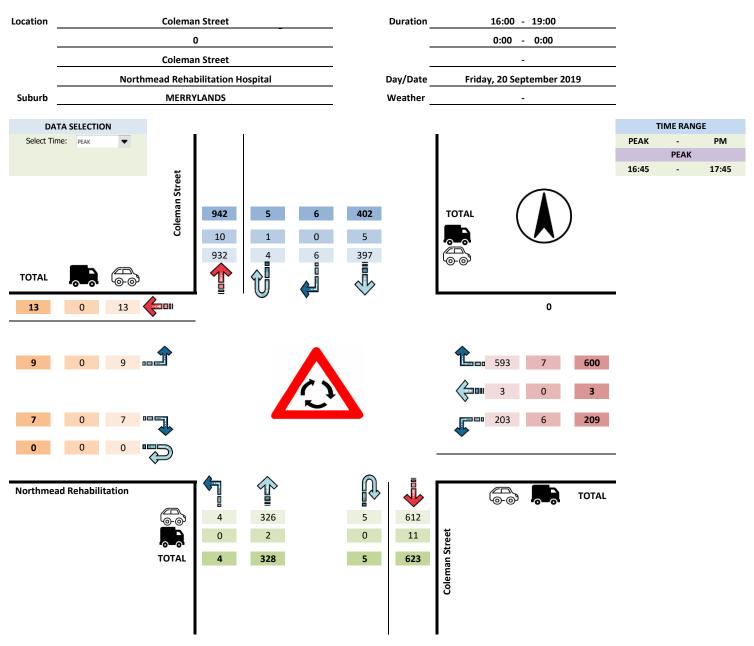


Location	Coleman Street	Duration	16:00 - 19:00
	0	_	-
	Coleman Street	_	-
	Northmead Rehabilitation Hospital	Day/Date	Friday, 20 September 2019
Suburb	MERRYLANDS	Weather	•

All Vehicles					NORTH													EAST									
Time Per Hour				Co	leman Sti	reet												0									
	<u>L</u>		I			<u>R</u>			<u>U</u>		J		L			I			<u>R</u>			<u>U</u>			<u>TOT</u>	<u>AL</u>	TOTAL
	LIGHT HEAVY $\Sigma$	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	<u>TOTAL</u>	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00 - 17:00		410	9	419	6	0	6	5	0	5	430	193	5	198	1	0	1	535	12	547	0	0	0	746	1512	27	1539
16:15 - 17:15		419	9	428	6	0	6	3	1	4	438	189	7	196	1	0	1	532	11	543	0	0	0	740	1511	29	1540
16:30 - 17:30		406	10	416	7	0	7	3	1	4	427	211	7	218	3	0	3	555	8	563	0	0	0	784	1535	28	1563
16:45 - 17:45		397	5	402	6	0	6	4	1	5	413	203	6	209	3	0	3	593	7	600	0	0	0	812	1557	21	1578
17:00 - 18:00		393	4	397	4	1	5	4	1	5	407	197	6	203	3	0	3	582	7	589	0	0	0	795	1539	22	1561
17:15 - 18:15		397	3	400	4	1	5	4	0	4	409	183	4	187	2	0	2	565	6	571	0	0	0	760	1523	17	1540
17:30 - 18:30		400	3	403	4	1	5	5	0	5	413	143	3	146	1	0	1	494	4	498	0	0	0	645	1417	12	1429
17:45 - 18:45		390	3	393	6	1	7	9	0	9	409	118	2	120	1	0	1	401	6	407	0	0	0	528	1271	13	1284
18:00 - 19:00		356	4	360	8	0	8	11	0	11	379	99	1	100	2	0	2	325	3	328	0	0	0	430	1112	8	1120
Period End		3568	50	3618	51	4	55	48	4	52	3725	1536	41	1577	17	0	17	4582	64	4646	0	0	0	6240	12977	177	13154

Al	Veh	icles					·	·		SOUTH		·	·		·		·				WEST	·		·			·			
Tim	e Pe	r Hou	r						Co	leman Street									Northm	ead F	Rehabilit	ation Ho	spital							
					L			I		<u>R</u>			<u>U</u>				L		I			<u>R</u>			<u>U</u>			<u>T0</u>	TAL_	TOTAL
				LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-	17	:00	4	0	4	340	1	341			2	0	2	347	10	0	10			6	0	6	0	0	0	16	1512	27	1539
16:15	-	17	:15	5	0	5	336	1	337			3	0	3	345	9	0	9			8	0	8	0	0	0	17	1511	29	1540
16:30	-	17	:30	6	0	6	323	2	325			5	0	5	336	8	0	8			8	0	8	0	0	0	16	1535	28	1563
16:45	-	17	:45	4	0	4	326	2	328			5	0	5	337	9	0	9			7	0	7	0	0	0	16	1557	21	1578
17:00	-	18	:00	4	0	4	336	2	338			5	0	5	347	5	1	6			6	0	6	0	0	0	12	1539	22	1561
17:15	-	18	:15	3	0	3	348	2	350			5	0	5	358	7	1	8			5	0	5	0	0	0	13	1523	17	1540
17:30	-	18	:30	4	0	4	351	0	351			2	0	2	357	10	1	11			3	0	3	0	0	0	14	1417	12	1429
17:45	-	18	:45	4	0	4	329	0	329			3	0	3	336	8	1	9			2	0	2	0	0	0	11	1271	13	1284
18:00	-	19	:00	4	0	4	294	0	294			2	0	2	300	9	0	9			2	0	2	0	0	0	11	1112	8	1120
Pe	eriod	End		38	0	38	2983	10	2993			32	0	32	3063	75	4	79			47	0	47	0	0	0	126	12977	177	13154





## **Traffic Information Specialist**

ABN: 42 613 389 923 Email info@tistraffic.com.au

Intersection Name	Coleman Street Roundabout
NORTH	Coleman Street
EAST	0
SOUTH	Coleman Street
WEST	Northmead Rehabilitation Hospital

Dat	e & Time of Count
Date (mm/dd/yy)	20/09/2019
Start Time	16:00
End Time	19:00







Location	Hawkesbury Road	<b>Duration</b>	16:00 - 19:00
	Great Western Highway		-
	Coleman Street		-
	Great Western Highway	Day/Date	Friday, 20 September 2019
Suburb	WESTMEAD	Weather	-

All	l Vel	hic	les					NOI	RTH									EA	ST							
Time	Per	15	Mins				- 1	Hawkesb	ury Ro	ad							Grea	at Weste	ern Higi	hway						
					L			I			<u>R</u>				Ī			I			<u>R</u>			TO	TAL	TOTAL
				LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-		16:15	21	0	21	41	3	44	101	1	102	167	20	0	20	247	12	259	11	0	11	290	867	30	897
16:15	-	•	16:30	18	0	18	46	0	46	128	0	128	192	16	0	16	270	8	278	10	0	10	304	981	15	996
16:30	-	•	16:45	16	0	16	48	0	48	113	1	114	178	19	0	19	287	8	295	9	0	9	323	969	26	995
16:45	-	•	17:00	6	0	6	51	0	51	118	1	119	176	17	0	17	253	10	263	8	0	8	288	900	22	922
17:00	-	•	17:15	23	0	23	42	0	42	119	2	121	186	18	0	18	279	5	284	6	0	6	308	964	21	985
17:15	-	•	17:30	15	0	15	41	0	41	146	0	146	202	13	0	13	212	10	222	1	0	1	236	882	24	906
17:30	-	•	17:45	7	0	7	45	0	45	97	1	98	150	16	1	17	320	10	330	9	0	9	356	1041	20	1061
17:45	-	•	18:00	10	0	10	38	0	38	72	0	72	120	23	0	23	284	11	295	13	0	13	331	988	23	1011
18:00	-	•	18:15	15	0	15	33	0	33	104	0	104	152	17	0	17	221	6	227	15	0	15	259	884	14	898
18:15	-		18:30	18	0	18	36	0	36	66	1	67	121	27	0	27	295	6	301	12	0	12	340	889	13	902
18:30	-	•	18:45	9	0	9	30	0	30	84	1	85	124	22	1	23	259	7	266	7	0	7	296	823	14	837
18:45	-		19:00	12	0	12	18	0	18	61	0	61	91	20	1	21	235	9	244	16	0	16	281	750	16	766
Pe	erioc	d E	nd	170	0	170	469	3	472	1209	8	1217	1859	228	3	231	3162	102	3264	117	0	117	3612	10938	238	11176

Α	II Ve	hic	les					SOL	JTH									WE	ST					1		
Time	Per	r 15	Mins					Colema	n Stree	et							Grea	at Weste	rn Higl	hway				İ		
					L			<u>T</u>			<u>R</u>				<u>L</u>			I			<u>R</u>			TO	TAL	TOTAL
				LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	<b>TOTAL</b>	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	-	-	16:15	133	4	137	51	0	51	11	0	11	199	28	0	28	164	10	174	39	0	39	241	867	30	897
16:15	-	-	16:30	156	1	157	53	1	54	13	1	14	225	38	1	39	204	3	207	29	0	29	275	981	15	996
16:30	-	-	16:45	154	3	157	65	1	66	16	0	16	239	36	0	36	165	8	173	41	5	46	255	969	26	995
16:45	-	-	17:00	149	3	152	48	0	48	16	0	16	216	28	2	30	163	5	168	43	1	44	242	900	22	922
17:00	-	-	17:15	166	5	171	50	0	50	14	0	14	235	30	0	30	173	8	181	44	1	45	256	964	21	985
17:15	-	-	17:30	148	4	152	48	1	49	10	0	10	211	52	0	52	155	7	162	41	2	43	257	882	24	906
17:30	-	-	17:45	172	0	172	68	1	69	14	0	14	255	43	0	43	213	7	220	37	0	37	300	1041	20	1061
17:45	-	-	18:00	160	4	164	67	0	67	30	0	30	261	41	1	42	220	5	225	30	2	32	299	988	23	1011
18:00	-	-	18:15	118	2	120	71	0	71	17	0	17	208	43	1	44	187	5	192	43	0	43	279	884	14	898
18:15	-	-	18:30	103	0	103	49	1	50	15	0	15	168	32	0	32	193	3	196	43	2	45	273	889	13	902
18:30	-	-	18:45	74	0	74	48	1	49	17	0	17	140	33	0	33	201	4	205	39	0	39	277	823	14	837
18:45	-	-	19:00	82	0	82	46	1	47	11	0	11	140	32	0	32	185	5	190	32	0	32	254	750	16	766
Р	erio	d E	nd	1615	26	1641	664	7	671	184	1	185	2497	436	5	441	2223	70	2293	461	13	474	3208	10938	238	11176

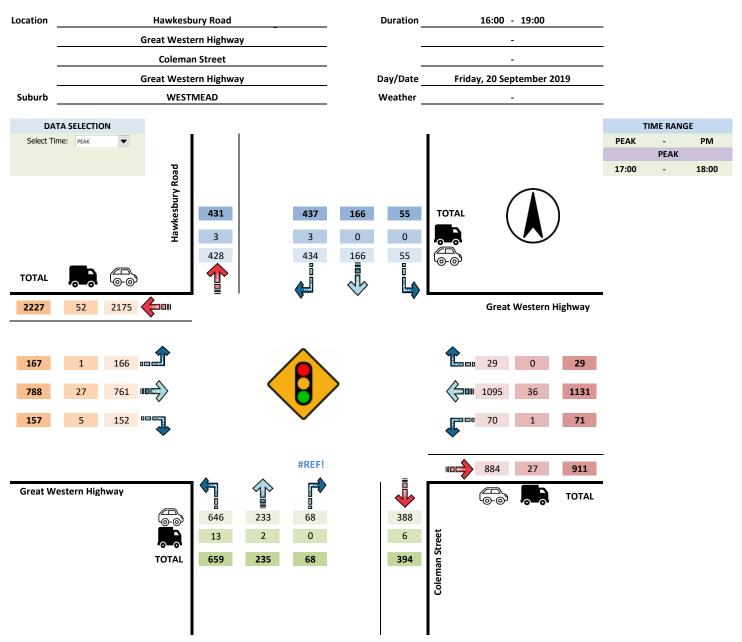


Location	Hawkesbury Road	Duration	16:00 - 19:00
	Great Western Highway	<u>-</u>	-
	Coleman Street	_	-
	Great Western Highway	Day/Date	Friday, 20 September 2019
Suburb	WESTMEAD	Weather	-

A	AII V	ehic	les					NOI	RTH									EA	ST							
Tir	me F	Per I	Hour				ŀ	lawkesb	ury Ro	ad							Grea	at Weste	rn High	hway						
					L			<u>T</u>			<u>R</u>				<u>L</u>			Ţ			<u>R</u>			TO	TAL	TOTAL
				LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IUIAL
16:00	)	-	17:00	61	0	61	186	3	189	460	3	463	713	72	0	72	1057	38	1095	38	0	38	1205	3717	93	3810
16:15	5	-	17:15	63	0	63	187	0	187	478	4	482	732	70	0	70	1089	31	1120	33	0	33	1223	3814	84	3898
16:30	)	-	17:30	60	0	60	182	0	182	496	4	500	742	67	0	67	1031	33	1064	24	0	24	1155	3715	93	3808
16:45	5	-	17:45	51	0	51	179	0	179	480	4	484	714	64	1	65	1064	35	1099	24	0	24	1188	3787	87	3874
17:00	)	-	18:00	55	0	55	166	0	166	434	3	437	658	70	1	71	1095	36	1131	29	0	29	1231	3875	88	3963
17:15	;	-	18:15	47	0	47	157	0	157	419	1	420	624	69	1	70	1037	37	1074	38	0	38	1182	3795	81	3876
17:30	)	-	18:30	50	0	50	152	0	152	339	2	341	543	83	1	84	1120	33	1153	49	0	49	1286	3802	70	3872
17:45	5	-	18:45	52	0	52	137	0	137	326	2	328	517	89	1	90	1059	30	1089	47	0	47	1226	3584	64	3648
18:00	)	-	19:00	54	0	54	117	0	117	315	2	317	488	86	2	88	1010	28	1038	50	0	50	1176	3346	57	3403
F	Perio	od E	nd	493	0	493	1463	3	1466	3747	25	3772	5731	670	7	677	9562	301	9863	332	0	332	10872	33435	717	34152

<u> </u>	All Ve	hic	les_					SOL	UTH									WE	ST							
Tir	me P	er l	Hour					Colema	n Stree	et .							Grea	at Weste	rn Hig	hway						
					L			I			<u>R</u>				<u>L</u>			I			<u>R</u>			TO	ΓAL	TOTAL
				LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	<u>TOTAL</u>	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	LIGHT	HEAVY	Σ	TOTAL	LIGHT	HEAVY	IOIAL
16:00	) .	-	17:00	592	11	603	217	2	219	56	1	57	879	130	3	133	696	26	722	152	6	158	1013	3717	93	3810
16:15	,	-	17:15	625	12	637	216	2	218	59	1	60	915	132	3	135	705	24	729	157	7	164	1028	3814	84	3898
16:30	) .	-	17:30	617	15	632	211	2	213	56	0	56	901	146	2	148	656	28	684	169	9	178	1010	3715	93	3808
16:45	;	-	17:45	635	12	647	214	2	216	54	0	54	917	153	2	155	704	27	731	165	4	169	1055	3787	87	3874
17:00	) .	-	18:00	646	13	659	233	2	235	68	0	68	962	166	1	167	761	27	788	152	5	157	1112	3875	88	3963
17:15	; .	-	18:15	598	10	608	254	2	256	71	0	71	935	179	2	181	775	24	799	151	4	155	1135	3795	81	3876
17:30	) .	-	18:30	553	6	559	255	2	257	76	0	76	892	159	2	161	813	20	833	153	4	157	1151	3802	70	3872
17:45	;	-	18:45	455	6	461	235	2	237	79	0	79	777	149	2	151	801	17	818	155	4	159	1128	3584	64	3648
18:00	) .	-	19:00	377	2	379	214	3	217	60	0	60	656	140	1	141	766	17	783	157	2	159	1083	3346	57	3403
F	Perio	d E	nd	5098	87	5185	2049	19	2068	579	2	581	7834	1354	18	1372	6677	210	6887	1411	45	1456	9715	33435	717	34152





## **Traffic Information Specialist**

ABN: 42 613 389 923 Email info@tistraffic.com.au

Intersection Name	Coleman Street - Hawkesbury Road
NORTH	Hawkesbury Road
EAST	Great Western Highway
SOUTH	Coleman Street
WEST	Great Western Highway

Dat	e & Time of Count
Date (mm/dd/yy)	20/09/2019
Start Time	16:00
End Time	19:00

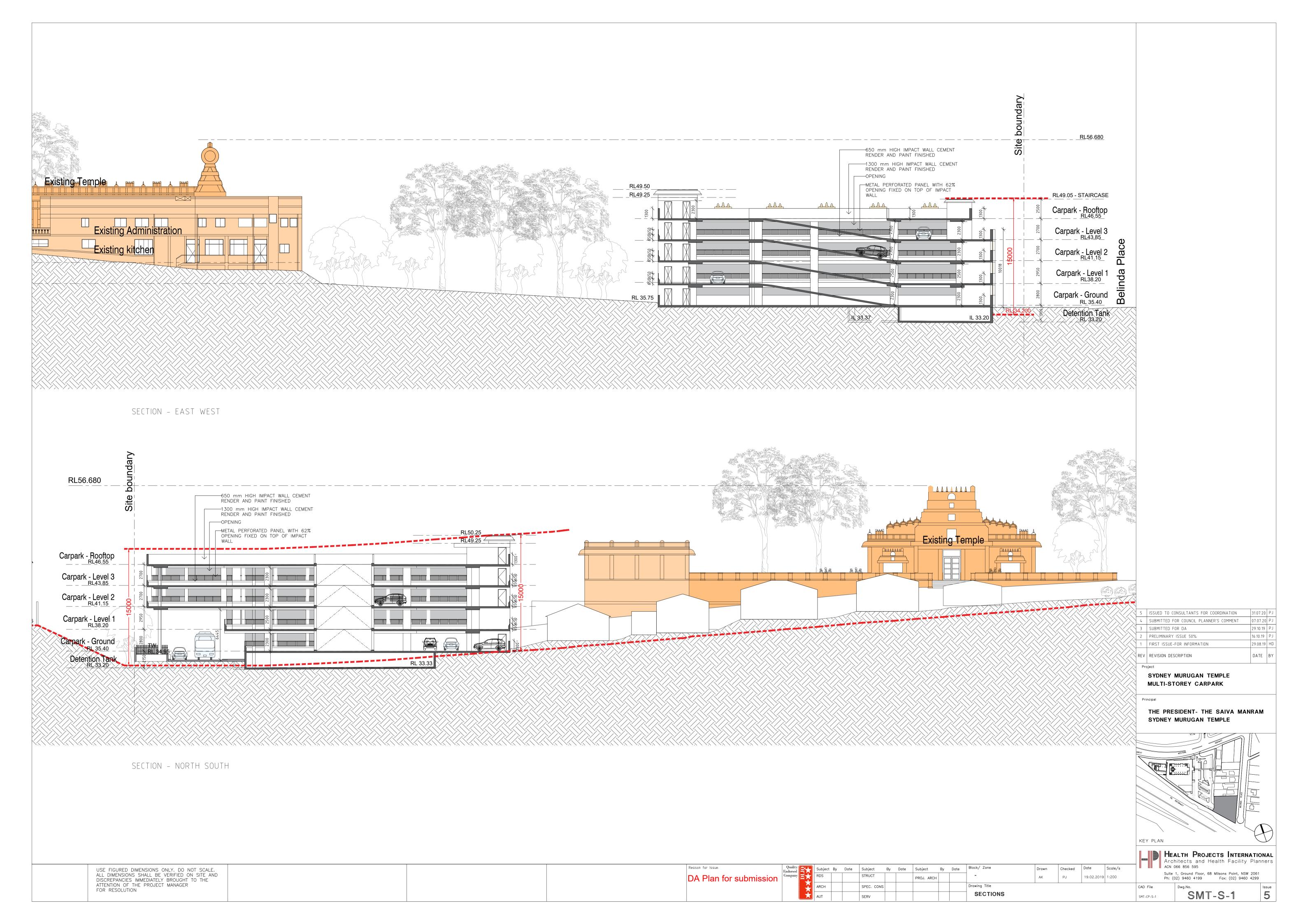


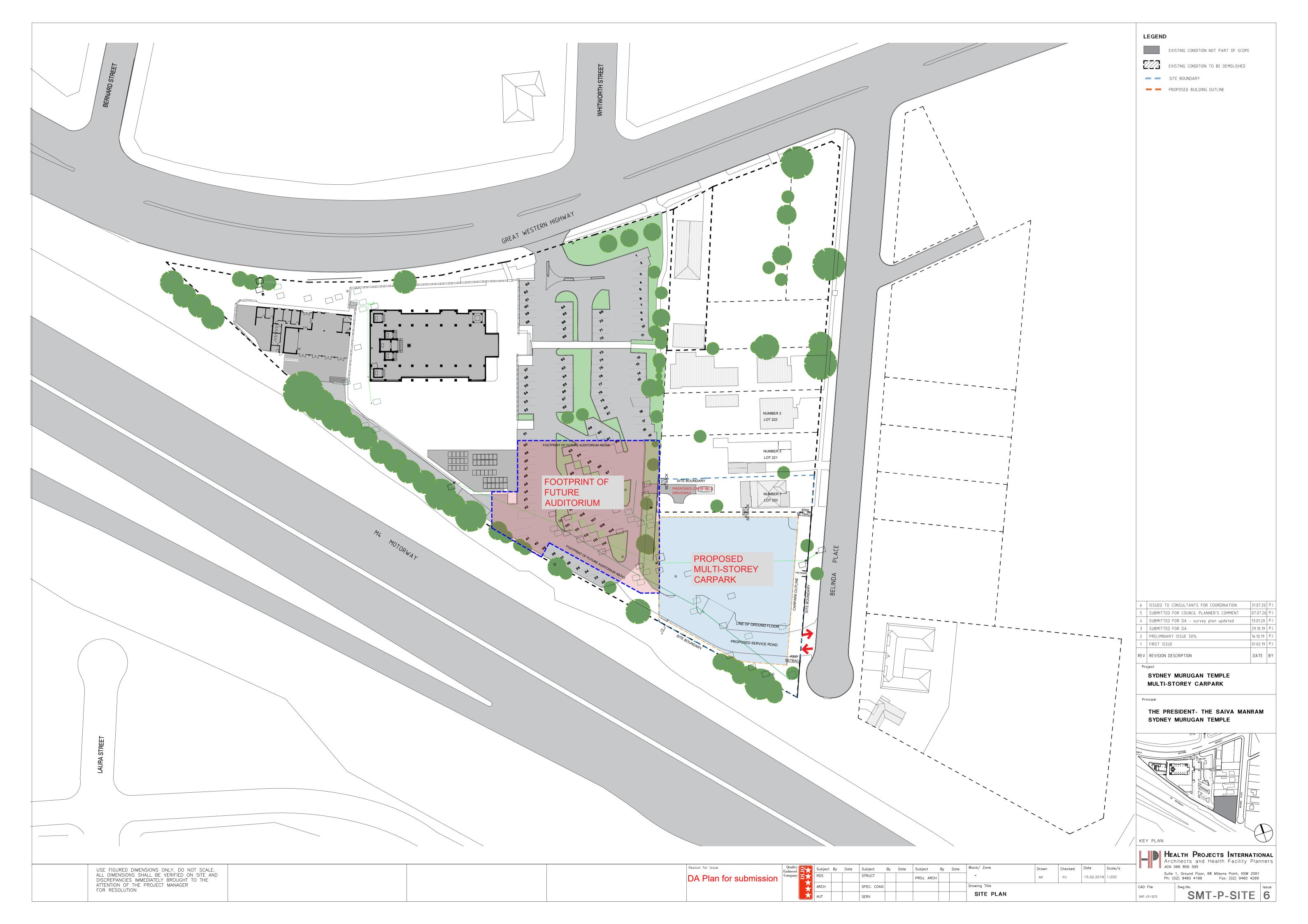
Transport and Traffic Planning Associates

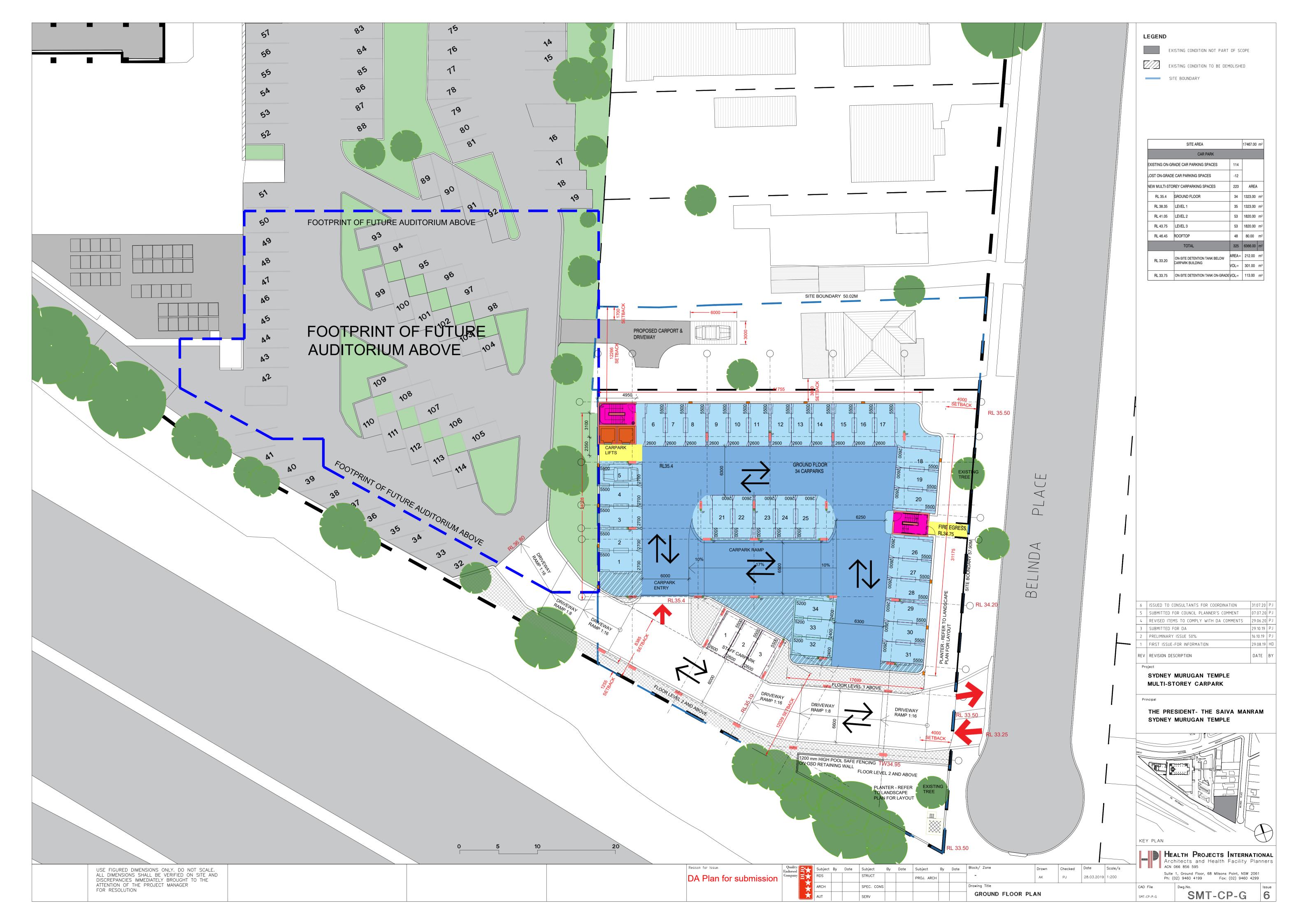
# Appendix C

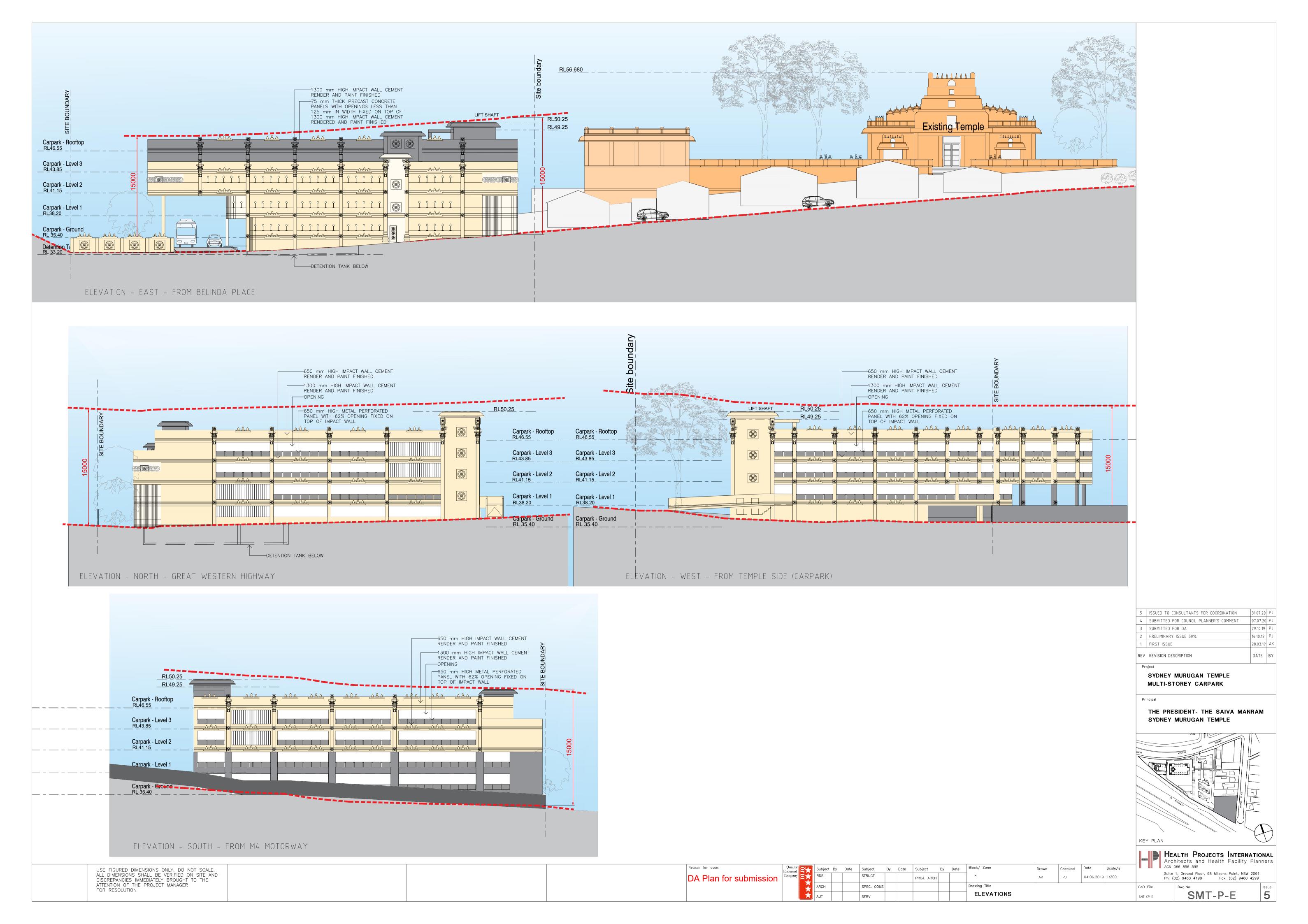
# **Architectural Plans**

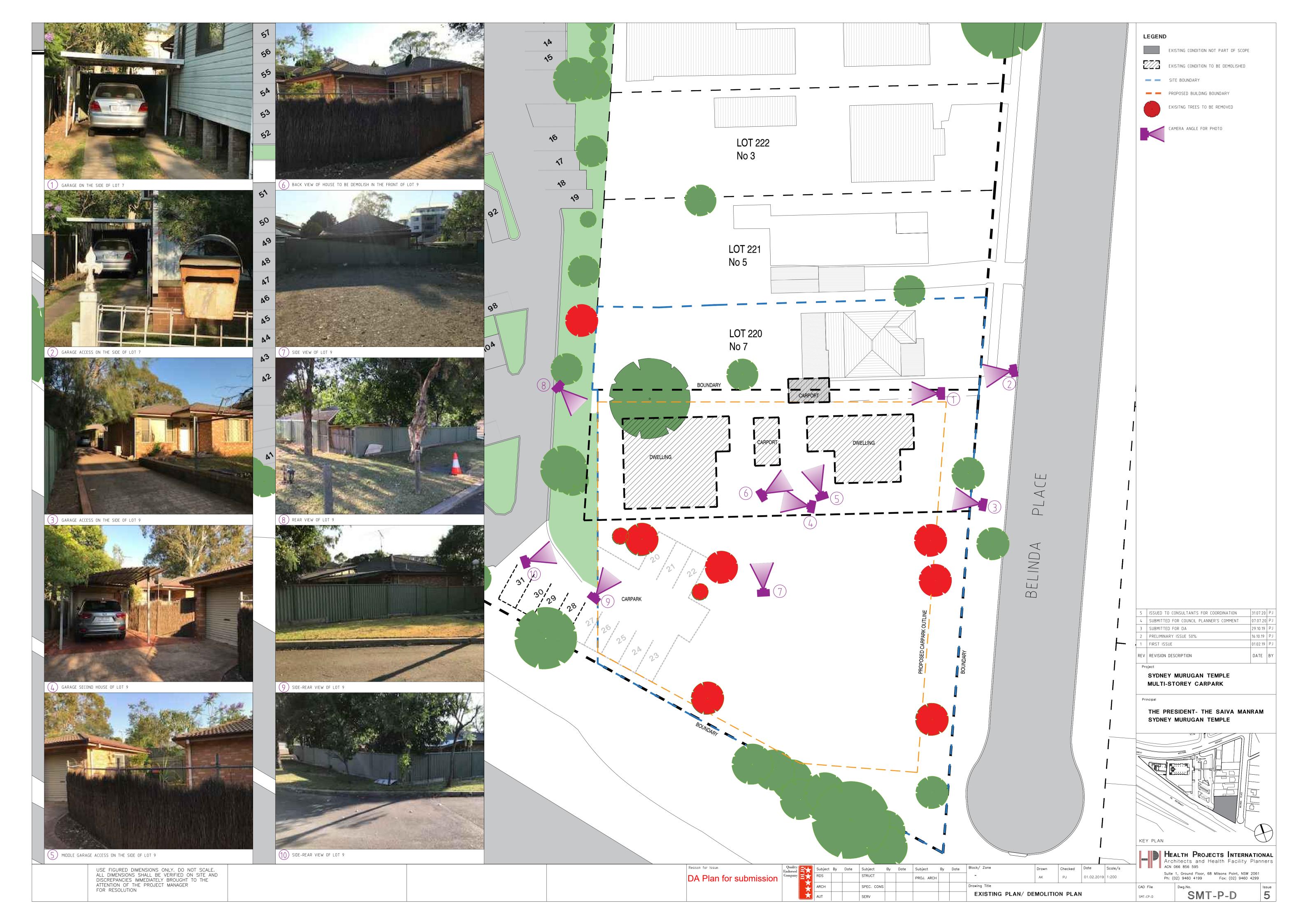


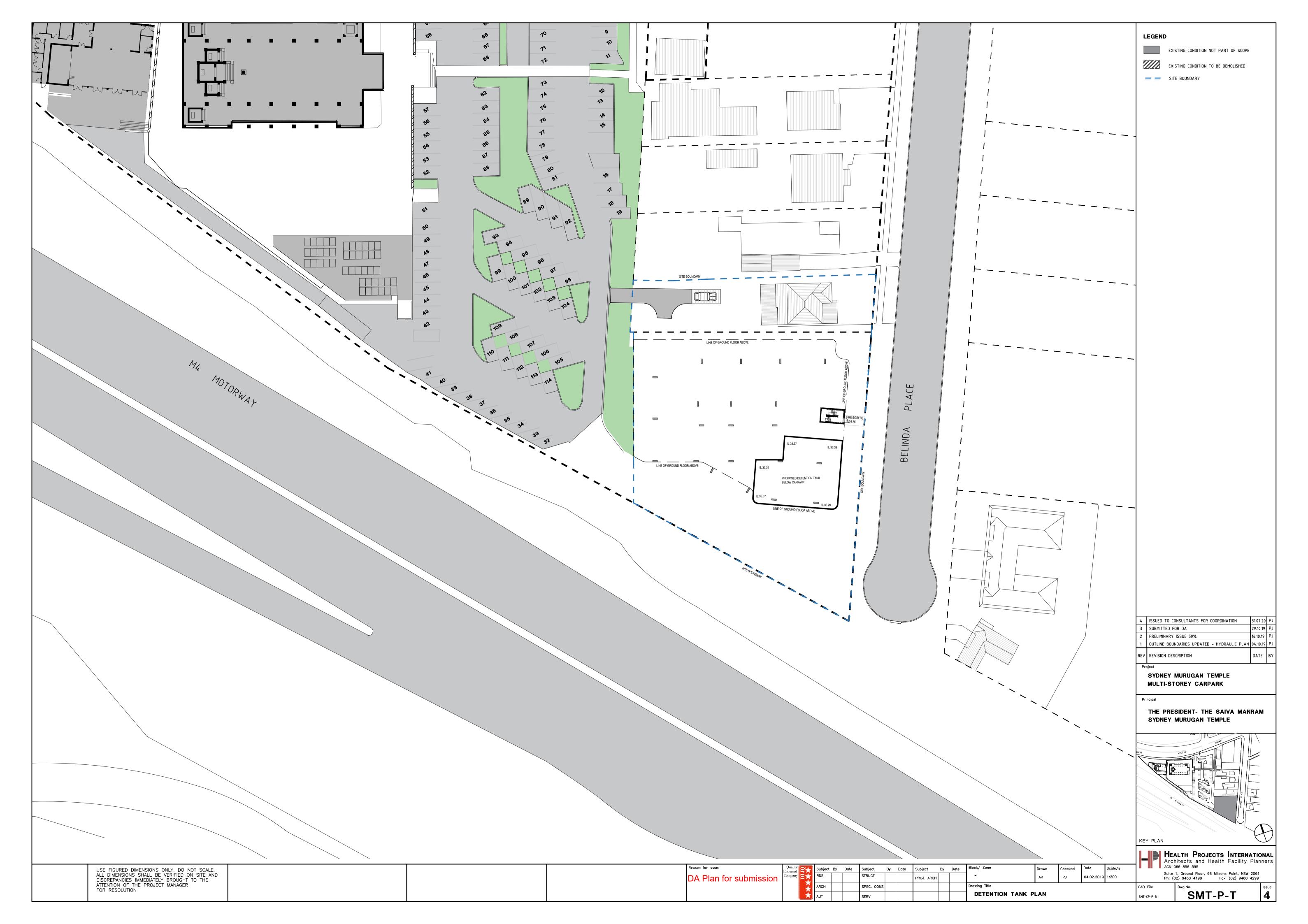






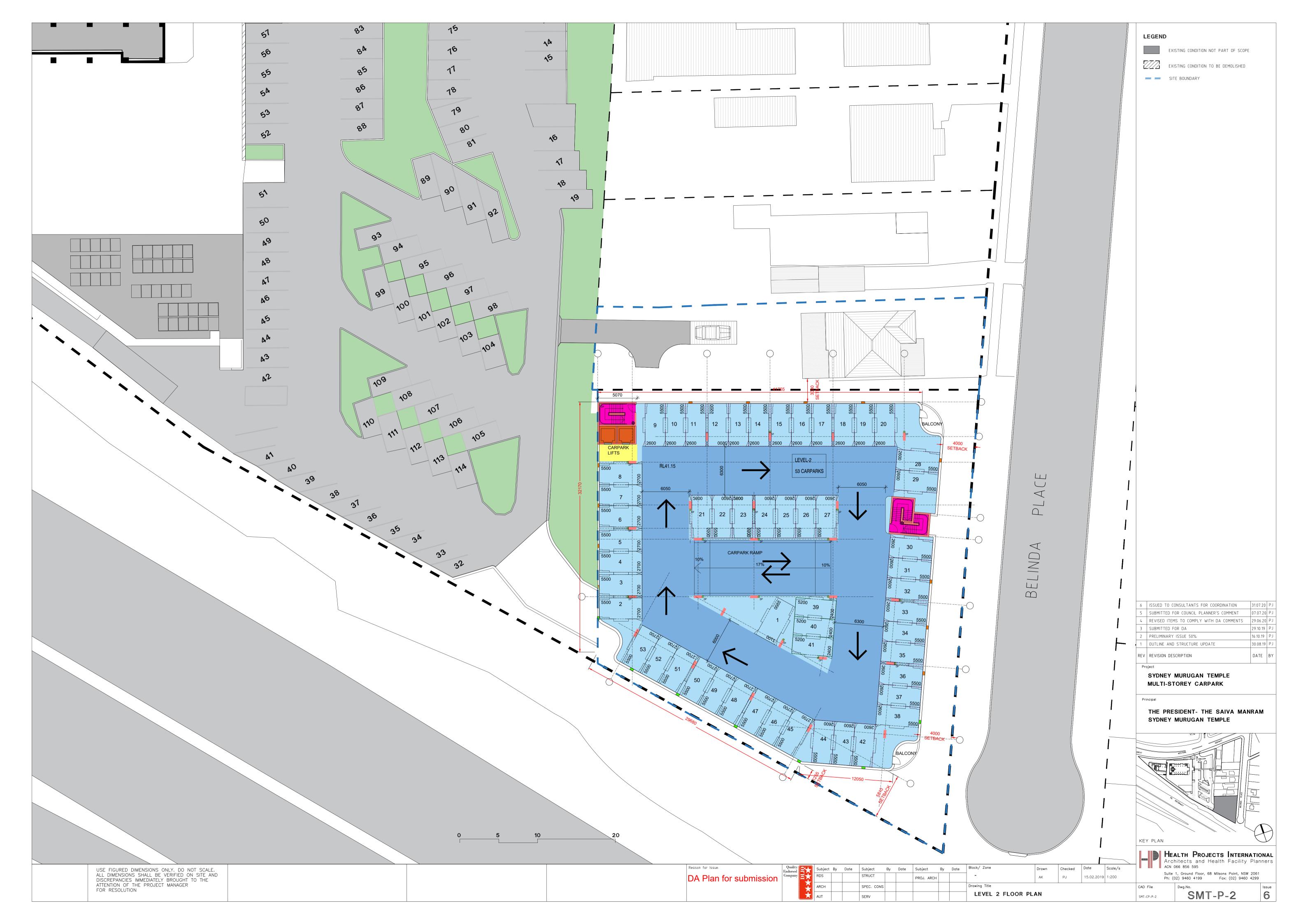














Transport and Traffic Planning Associates

# Appendix D

## **Traffic Model Results**



V Site: 101 [EX PM BELINDA PL - GWH]

中 Network: N101 [EX PM PEAK]

New Site Site Category: (None) Giveway / Yield (Two-Way)

Move	ement	Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arriva	Flows	Deg. Satn	Average Delay	Level of Service	Aver. Ba Quet		Prop. Queued	Effective Stop	Aver. A	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles E veh	Distance m		Rate	Cycles S	Speed km/h
South	ı: BELI	NDA PL												
1	L2	2	0.0	2	0.0	0.001	6.5	LOS A	0.0	0.0	0.42	0.54	0.42	48.6
Appro	ach	2	0.0	2	0.0	0.001	6.5	LOSA	0.0	0.0	0.42	0.54	0.42	48.6
East:	GWH													
4	L2	11	0.0	11	0.0	0.006	5.5	LOS A	0.0	0.0	0.00	0.58	0.00	53.6
5	T1	1268	3.2	1268	3.2	0.332	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Appro	ach	1279	3.1	1279	3.1	0.332	0.1	NA	0.0	0.0	0.00	0.00	0.00	59.8
West	GWH													
11	T1	971	9.0	971	9.0	0.240	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Appro	ach	971	9.0	971	9.0	0.240	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Ve	hicles	2252	5.6	2252	5.6	0.332	0.1	NA	0.0	0.0	0.00	0.00	0.00	59.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

SIDRA INTERSECTION 8.0 | Copyright © 2000-2019 Akcelik and Associates Pty Ltd | sidrasolutions.com Organisation: TRANSPORT AND TRAFFIC PLANNING ASSOCIATES | Processed: Saturday, 15 August 2020 9:22:50 PM Project: Y:\WORK16\16019 - MURUGAN TEMPLE, MAYS HILL - From 09178\MODELLING:14082020.sip8



Site: 101 [EX PM BRIDGE ST - GWH]

中 Network: N101 [EX PM PEAK]

New Site

Site Category: (None)

Move	ement	Perform	nance	- Vehi	cles									
Mov ID	Turn	Demand				Deg. Satn	Average Delay	Level of Service	Aver. B Que	eue	Prop. Queued	Effective Stop	No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles veh	Distance m		Rate	Cycles	Speed km/h
East:	GWH													
5	T1	1877	2.7	1877	2.7	0.451	7.0	LOS A	8.0	49.4	0.38	0.34	0.38	50.3
6	R2	350	0.3	350	0.3	0.928	61.6	LOS E	12.6	76.0	0.78	0.93	1.09	22.0
Appro	oach	2227	2.3	2227	2.3	0.928	15.5	LOS B	12.6	76.0	0.44	0.43	0.49	41.8
North	: BRID	GE ST												
7	L2	191	1.6	191	1.6	0.188	20.3	LOS B	3.5	21.3	0.53	0.72	0.53	36.2
9	R2	276	0.4	276	0.4	0.847	67.1	LOS E	11.1	66.7	1.00	0.93	1.20	28.2
Appro	oach	467	0.9	467	0.9	0.847	48.0	LOS D	11.1	66.7	0.81	0.84	0.93	29.9
West	: GWH													
10	L2	72	1.4	72	1.4	0.111	34.5	LOS C	1.8	10.9	0.71	0.73	0.71	37.6
11	T1	921	3.3	921	3.3	0.822	44.7	LOS D	19.6	122.0	0.98	0.93	1.07	24.5
Appro	oach	993	3.1	993	3.1	0.822	44.0	LOS D	19.6	122.0	0.96	0.92	1.04	25.7
All Ve	hicles	3687	2.4	3687	2.4	0.928	27.3	LOS B	19.6	122.0	0.63	0.62	0.69	34.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	ement Performance - Pe	destrians						
Mov	D	Demand	Average		verage Back			Effective
ID	Description	Flow	Delay	Service I	Pedestrian <sub>.</sub>	Distance	Queued S	top Rate
		ped/h	sec		ped	m		
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
P41	West Stage 1	50	56.8	LOS E	0.2	0.2	0.95	0.95
P42	West Stage 2	50	56.8	LOS E	0.2	0.2	0.95	0.95
All Pe	destrians	150	56.8	LOS E			0.95	0.95



Site: 101 [EX PM BURNETT ST - GWH]

中 Network: N101 [EX PM PEAK]

New Site

Site Category: (None)

Move	ement	Perform	nance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. B Que		Prop. Queued	Effective Stop	Aver No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles veh	Distance m		Rate	Cycles S	Speed km/h
South	: BUR	NETT ST												
1	L2	35	2.9	35	2.9	0.528	56.8	LOS E	8.0	48.9	0.93	0.82	0.93	21.2
3	R2	398	1.0	398	1.0	0.528	57.2	LOS E	8.0	48.9	0.93	0.82	0.93	30.5
Appro	ach	433	1.2	433	1.2	0.528	57.1	LOS E	8.0	48.9	0.93	0.82	0.93	30.0
East:	GWH													
4	L2	495	1.2	495	1.2	0.660	41.4	LOS C	16.6	101.1	0.87	0.85	0.87	35.1
5	T1	1181	3.5	1181	3.5	0.811	39.8	LOS C	23.5	146.8	0.93	0.85	0.95	26.2
Appro	ach	1676	2.8	1676	2.8	0.811	40.3	LOS C	23.5	146.8	0.91	0.85	0.93	29.6
West:	GWH													
11	T1	711	3.7	711	3.7	0.269	8.5	LOS A	5.5	34.2	0.41	0.36	0.41	52.6
12	R2	241	0.8	241	0.8	0.538	55.3	LOS D	8.8	53.3	0.92	0.82	0.92	31.0
Appro	ach	952	2.9	952	2.9	0.538	20.4	LOS B	8.8	53.3	0.54	0.48	0.54	44.7
All Ve	hicles	3061	2.6	3061	2.6	0.811	36.5	LOS C	23.5	146.8	0.80	0.73	0.81	34.1

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov	ement Performance - Pec	destrians						
Mov ID	Description	Demand Flow ped/h	Average Delay sec		verage Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate
P1	South Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
P4	West Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
All Pe	edestrians	100	64.3	LOSF			0.96	0.96



Site: 101 [EX PM COLEMAN ST - HAWKESBURY RD - GWH]

中 Network: N101 [EX PM PEAK]

New Site

Site Category: (None)

Mov	emen	t Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arrival		Deg. Satn	Average Delay	Level of Service	Aver. Ba Que		Prop. Queued	Effective Stop	Aver. / No.	Averag e
		Total veh/h		Total	HV	v/c			Vehicles [			Rate	Cycles S	_
Sout	h: COL	.EMAN ST	%	veh/h	%	V/C	sec		veh	m				km/h
1	L2	659	2.0	659	2.0	0.914	63.3	LOS E	21.2	130.0	1.00	0.97	1.19	7.3
2	T1	235	0.9	235	0.9	0.914	68.5	LOS E	11.0	66.7	0.99	0.98	1.28	21.5
3	R2	68	0.0	68	0.0	0.914	77.9	LOS F	11.0	66.7	1.00	1.04	1.37	6.6
Appr	oach	962	1.6	962	1.6	0.914	65.6	LOS E	21.2	130.0	1.00	0.97	1.23	11.9
East	: GWH													
4	L2	71	1.4	71	1.4	0.052	8.3	LOS A	0.6	3.6	0.30	0.62	0.30	41.9
5	T1	1131	3.2	1131	3.2	0.933	54.9	LOS D	27.7	172.4	0.99	1.06	1.22	15.5
6	R2	29	0.0	29	0.0	0.090	62.3	LOS E	1.1	6.4	1.00	0.73	1.00	26.1
Appr	oach	1231	3.0	1231	3.0	0.933	52.4	LOS D	27.7	172.4	0.95	1.02	1.16	16.5
Nort	h: HAW	/KESBURY	' RD											
7	L2	55	0.0	55	0.0	0.077	22.4	LOS B	0.9	5.6	0.71	0.71	0.71	34.8
8	T1	166	0.0	166	0.0	0.943	75.6	LOS F	16.5	99.2	1.00	1.10	1.40	17.1
9	R2	437	0.7	437	0.7	0.943	84.8	LOS F	16.5	99.2	1.00	1.08	1.45	16.3
Appı	oach	658	0.5	658	0.5	0.943	77.3	LOS F	16.5	99.2	0.98	1.05	1.38	17.3
Wes	t: GWH	ĺ												
10	L2	167	0.6	167	0.6	0.137	17.9	LOS B	2.7	16.4	0.47	0.70	0.47	38.9
11	T1	788	3.4	788	3.4	0.611	27.4	LOS B	11.8	73.3	0.72	0.62	0.72	11.6
12	R2	157	3.2	157	3.2	0.942	55.7	LOS D	5.2	32.6	0.84	0.86	1.06	6.3
Appr	oach	1112	3.0	1112	3.0	0.942	30.0	LOS C	11.8	73.3	0.70	0.67	0.73	16.1
All V	ehicles	3963	2.2	3963	2.2	0.943	53.4	LOS D	27.7	172.4	0.89	0.92	1.09	15.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	ement Performance - F	Pedestrians						
Mov ID	Description	Demand Flow ped/h	Average Delay sec		Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate
P1	South Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
P2	East Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
All Pe	edestrians	150	56.8	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement.

Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

Site: 101 [EX PM COLEMAN ST - WESTERN MOTORWAY OFF-RAMP]

New Site

Site Category: (None)

Roundabout

Mov	ement	t Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arrival		Deg. Satn	Average Delay	Level of Service	Aver. Back Queue	of	Prop. Queued	Effective Stop	Aver. A No.	Averag e
		Total		Total	HV				Vehicles Dis			Rate	Cycles S	
South	h: COL	veh/h EMAN ST	%	veh/h	%	v/c	sec		veh	m				km/h
1	L2	EIVIAN 31	0.0	4	0.0	0.768	10.2	LOSA	1.2	7.1	0.63	0.90	1.01	34.8
		•		-										
2	T1	328	0.6	328	0.6	0.768	10.3	LOS A	1.2	7.1	0.63	0.90	1.01	45.5
3u	U	5	0.0	5	0.0	0.768	18.4	LOS B	1.2	7.1	0.63	0.90	1.01	54.6
Appro	oach	337	0.6	337	0.6	0.768	10.5	LOSA	1.2	7.1	0.63	0.90	1.01	45.6
East:	WEST	TERN MOT	ORWA	Y OFF	-RAMP									
4	L2	209	2.9	209	2.9	0.363	6.0	LOS A	1.0	6.3	0.58	0.66	0.58	52.3
5	T1	3	0.0	3	0.0	0.363	5.9	LOS A	1.0	6.3	0.58	0.66	0.58	38.8
6	R2	600	1.2	600	1.2	0.363	11.7	LOS A	1.0	6.3	0.59	0.69	0.59	45.3
Appro	oach	812	1.6	812	1.6	0.363	10.3	LOSA	1.0	6.3	0.58	0.68	0.58	47.8
North	n: COLI	EMAN ST												
8	T1	402	1.2	402	1.2	0.271	3.6	LOS A	0.5	3.2	0.06	0.36	0.06	58.0
9	R2	7	14.3	7	14.3	0.271	9.4	LOS A	0.5	3.2	0.06	0.36	0.06	43.8
9u	U	14	71.4	14	71.4	0.271	12.4	LOS A	0.5	3.2	0.06	0.36	0.06	53.3
Appro	oach	423	3.8	423	3.8	0.271	4.0	LOSA	0.5	3.2	0.06	0.36	0.06	57.8
West	: WES	TMEAD H	OSPITA	AL ACC	CESS									
10	L2	9	0.0	9	0.0	0.034	4.5	LOS A	0.0	0.2	0.62	0.71	0.62	21.6
12	R2	7	0.0	7	0.0	0.034	9.7	LOSA	0.0	0.2	0.62	0.71	0.62	53.2
Appro	oach	16	0.0	16	0.0	0.034	6.8	LOSA	0.0	0.2	0.62	0.71	0.62	44.9
All Ve	ehicles	1588	2.0	1588	2.0	0.768	8.6	LOSA	1.2	7.1	0.46	0.64	0.54	50.6

中 Network: N101 [EX PM

PEAK]

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Project: Y:\WORK16\16019 - MURUGAN TEMPLE, MAYS HILL - From 09178\MODELLING\14082020.sip8

V Site: 101 [EX PM SITE ACCESS - GWH]

中 Network: N101 [EX PM PEAK]

New Site Site Category: (None) Giveway / Yield (Two-Way)

Move	ement	: Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. Bad Queu		Prop. Queued	Effective Stop	Aver. / No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles Di veh			Rate	Cycles S	Speed km/h
South	ı: SITE	ACCESS		ven/n	70	V/C	Sec	_	ven	m		_	_	KIII/II
1	L2	38	0.0	38	0.0	0.042	7.4	LOS A	0.1	0.4	0.43	0.62	0.43	27.6
Appro	ach	38	0.0	38	0.0	0.042	7.4	LOSA	0.1	0.4	0.43	0.62	0.43	27.6
East:	GWH													
4	L2	138	0.0	138	0.0	0.074	2.3	LOS A	0.0	0.0	0.00	0.50	0.00	35.1
5	T1	1213	3.1	1213	3.1	0.416	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Appro	ach	1351	2.7	1351	2.7	0.416	0.2	NA	0.0	0.0	0.00	0.05	0.00	46.8
West:	GWH													
11	T1	971	9.0	971	9.0	0.178	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	60.0
Appro	ach	971	9.0	971	9.0	0.178	0.0	NA	0.0	0.0	0.00	0.00	0.00	60.0
All Ve	hicles	2360	5.3	2360	5.3	0.416	0.3	NA	0.1	0.4	0.01	0.04	0.01	57.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Site: 101 [EX PM WHITWORTH ST - GWH]

中 Network: N101 [EX PM PEAK]

New Site

Site Category: (None)

Signals - Fixed Time Coordinated Cycle Time = 125 seconds (Network User-Given Cycle Time)

Move	ement	Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. Ba Quet		Prop. Queued	Effective Stop	Aver. A No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles D	istance m		Rate	Cycles S	Speed km/h
East:	GWH	¥311/11	,,	7011/11	70	7,5	000		7011					111711
5	T1	1335	3.1	1335	3.1	0.303	4.6	LOS A	4.9	30.4	0.33	0.29	0.33	28.6
Appro	oach	1335	3.1	1335	3.1	0.303	4.6	LOSA	4.9	30.4	0.33	0.29	0.33	28.6
North	: WHIT	WORTH S	ST											
7	L2	18	11.1	18	11.1	0.077	57.0	LOS E	0.6	4.0	0.90	0.70	0.90	21.1
Appro	oach	18	11.1	18	11.1	0.077	57.0	LOS E	0.6	4.0	0.90	0.70	0.90	21.1
West	: GWH													
10	L2	18	11.1	18	11.1	0.011	2.3	LOSA	0.0	0.1	0.02	0.50	0.02	52.3
11	T1	953	8.9	953	8.9	0.337	8.0	LOS A	0.9	6.1	0.05	0.05	0.05	36.0
Appro	oach	971	9.0	971	9.0	0.337	8.0	LOSA	0.9	6.1	0.05	0.06	0.05	40.1
All Ve	hicles	2324	5.6	2324	5.6	0.337	3.4	LOSA	4.9	30.4	0.22	0.20	0.22	29.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	ement Performance - Pe	destrians						
Mov ID	Description	Demand Flow ped/h	Average Delay sec		Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate
P2	East Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
All Pe	edestrians	100	56.8	LOS E			0.95	0.95



V Site: 101 [EX PM BELINDA PL - GWH + MSCP S1]

中 Network: N101 [EX PM PEAK + MSCP S1]

New Site Site Category: (None) Giveway / Yield (Two-Way)

Move	ement	Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. B Que		Prop. Queued	Effective Stop	Aver. A No.	Averag e
		Total veh/h	HV %	Total veh/h	HV %	v/c	sec		Vehicles I veh	Distance m		Rate	Cycles S	Speed km/h
South	n: BELI	NDA PL	70	VCII/II	70	V/C	300		Veri	- '''				KIII/II
1	L2	55	0.0	55	0.0	0.034	6.7	LOS A	0.1	0.3	0.44	0.63	0.44	48.5
Appro	oach	55	0.0	55	0.0	0.034	6.7	LOSA	0.1	0.3	0.44	0.63	0.44	48.5
East:	GWH													
4	L2	281	0.0	281	0.0	0.151	5.6	LOS A	0.0	0.0	0.00	0.58	0.00	53.6
5	T1	1317	3.0	1317	3.0	0.344	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Appro	oach	1598	2.5	1598	2.5	0.344	1.0	NA	0.0	0.0	0.00	0.10	0.00	57.9
West	: GWH													
11	T1	1028	8.5	1028	8.5	0.253	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Appro	oach	1028	8.5	1028	8.5	0.253	0.0	NA	0.0	0.0	0.00	0.00	0.00	59.9
All Ve	hicles	2681	4.7	2681	4.7	0.344	0.7	NA	0.1	0.3	0.01	0.07	0.01	57.7

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Site: 101 [EX PM BRIDGE ST - GWH + MSCP S1]

+ Network: N101 [EX PM PEAK + MSCP S1]

New Site

Site Category: (None)

Signals - Fixed Time Coordinated Cycle Time = 125 seconds (Network Optimum Cycle Time - Minimum Delay)

Move	ement	: Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows Arrival			Deg. Satn	Average Delay	Level of Service	Que	Aver. Back of Queue		Effective Stop	Aver. No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles [ veh	Distance m		Rate	Cycles	Speed km/h
East:	GWH													
5	T1	1893	2.7	1893	2.7	0.447	6.5	LOS A	7.9	48.7	0.37	0.33	0.37	50.8
6	R2	355	0.3	355	0.3	0.920	57.9	LOS E	12.3	73.8	0.75	0.91	1.04	22.9
Appro	oach	2248	2.3	2248	2.3	0.920	14.7	LOS B	12.3	73.8	0.43	0.42	0.47	42.5
North	: BRID	GE ST												
7	L2	204	1.5	204	1.5	0.198	19.9	LOS B	3.7	22.5	0.53	0.72	0.53	36.5
9	R2	276	0.4	276	0.4	0.887	72.5	LOS F	11.6	70.0	1.00	0.96	1.29	27.1
Appro	oach	480	8.0	480	0.8	0.887	50.1	LOS D	11.6	70.0	0.80	0.86	0.97	29.1
West	: GWH													
10	L2	72	1.4	72	1.4	0.114	35.3	LOS C	1.8	11.0	0.72	0.73	0.72	37.3
11	T1	959	3.1	959	3.1	0.911	60.5	LOS E	24.8	154.3	1.00	1.08	1.26	20.2
Appro	oach	1031	3.0	1031	3.0	0.911	58.7	LOS E	24.8	154.3	0.98	1.05	1.22	21.5
All Ve	hicles	3759	2.3	3759	2.3	0.920	31.3	LOS C	24.8	154.3	0.63	0.65	0.74	32.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	Movement Performance - Pedestrians												
Mov	Description	Demand	Demand Average Level of Average Back of Queue										
ID	Description	Flow	Delay	Service	Service Pedestrian		Queued	Stop Rate					
		ped/h	sec		ped	m							
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95					
P41	West Stage 1	50	56.8	LOS E	0.2	0.2	0.95	0.95					
P42	West Stage 2	50	56.8	LOS E	0.2	0.2	0.95	0.95					
All Pedestrians		150	56.8	LOS E			0.95	0.95					



Site: 101 [EX PM BURNETT ST - GWH + MSCP S1]

+ Network: N101 [EX PM PEAK + MSCP S1]

New Site

Site Category: (None)

Move	ement	Perform	ance	- Vehi	cles									
Mov ID			Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. B Que		Prop. Queued	Effective Stop	Aver No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles veh	Distance m		Rate	Cycles S	Speed km/h
South	: BUR	NETT ST												
1	L2	73	1.4	73	1.4	0.569	57.3	LOS E	8.9	54.1	0.94	0.83	0.94	21.1
3	R2	398	1.0	398	1.0	0.569	57.8	LOS E	8.9	54.1	0.94	0.83	0.94	30.4
Appro	ach	471	1.1	471	1.1	0.569	57.7	LOS E	8.9	54.1	0.94	0.83	0.94	29.3
East:	GWH													
4	L2	495	1.2	495	1.2	0.660	41.4	LOS C	16.6	101.1	0.87	0.85	0.87	35.1
5	T1	1339	3.1	1339	3.1	0.953	70.0	LOS E	38.2	237.2	0.97	1.10	1.25	18.3
Appro	ach	1834	2.6	1834	2.6	0.953	62.3	LOS E	38.2	237.2	0.94	1.03	1.15	23.0
West:	GWH													
11	T1	733	3.5	733	3.5	0.278	8.6	LOSA	5.7	35.5	0.41	0.36	0.41	52.6
12	R2	299	0.7	299	0.7	0.666	57.2	LOS E	11.3	68.6	0.96	0.84	0.96	30.5
Appro	ach	1032	2.7	1032	2.7	0.666	22.7	LOS B	11.3	68.6	0.57	0.50	0.57	43.4
All Ve	hicles	3337	2.4	3337	2.4	0.953	49.4	LOS D	38.2	237.2	0.83	0.84	0.94	29.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	Movement Performance - Pedestrians												
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Ave Service Pe		of Queue Distance m	Prop. I Queued S	Effective Stop Rate					
P1	South Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96					
P4	West Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96					
All Pe	edestrians	100	64.3	LOS F			0.96	0.96					

Site: 101 [EX PM COLEMAN ST - HAWKESBURY RD - GWH + MSCP S1]

PEAK + MSCP S1]

 Peak + MSCP S1

New Site

Site Category: (None)

Signals - Fixed Time Coordinated Cycle Time = 125 seconds (Network Optimum Cycle Time - Minimum Delay)

Mov	emen	t Perform	ance	- Vehi	cles									
Mov ID	Turn				Deg. Satn	Average Delay	Level of Service	Aver. Ba Que	ue	Prop. Queued	Effective Stop	Aver. No.	Averag e	
		Total veh/h		Total	HV %	v/c	sec		Vehicles [ veh	Distance m		Rate	Cycles	Speed km/h
Sout	veh/h % veh/h % South: COLEMAN ST						360	_	Ven	- '''	_		_	KIII/II
1	L2	659	2.0	659	2.0	0.917	63.9	LOS E	21.2	130.0	1.00	0.97	1.20	7.2
2	T1	240	8.0	240	8.0	0.917	68.6	LOS E	11.1	67.2	0.99	0.98	1.28	21.5
3	R2	68	0.0	68	0.0	0.917	78.4	LOS F	11.1	67.2	1.00	1.04	1.38	6.6
Аррі	oach	967	1.6	967	1.6	0.917	66.1	LOS E	21.2	130.0	0.99	0.98	1.23	11.9
East	: GWH													
4	L2	85	1.2	85	1.2	0.062	8.2	LOS A	0.7	4.3	0.30	0.62	0.30	42.0
5	T1	1145	3.1	1145	3.1	0.937	55.0	LOS D	27.8	173.0	0.98	1.06	1.22	15.5
6	R2	43	0.0	43	0.0	0.134	62.9	LOS E	1.6	9.5	1.00	0.75	1.00	26.0
Appı	oach	1273	2.9	1273	2.9	0.937	52.1	LOS D	27.8	173.0	0.94	1.02	1.15	16.8
Nort	h: HAW	KESBURY	'RD											
7	L2	63	0.0	63	0.0	0.088	22.5	LOS B	1.1	6.4	0.71	0.71	0.71	34.8
8	T1	166	0.0	166	0.0	0.929	71.9	LOS F	15.7	94.7	1.00	1.07	1.36	17.7
9	R2	437	0.7	437	0.7	0.929	80.7	LOS F	15.7	94.7	1.00	1.06	1.41	16.9
Аррі	oach	666	0.5	666	0.5	0.929	73.0	LOS F	15.7	94.7	0.97	1.03	1.33	18.0
Wes	t: GWH													
10	L2	167	0.6	167	0.6	0.137	18.3	LOS B	2.6	15.5	0.45	0.69	0.45	38.7
11	T1	839	3.2	839	3.2	0.649	24.7	LOS B	12.5	78.1	0.71	0.62	0.71	12.6
12	R2	157	3.2	157	3.2	0.960	60.4	LOS E	5.5	34.2	0.85	0.88	1.13	5.8
Аррі	oach	1163	2.8	1163	2.8	0.960	28.6	LOS C	12.5	78.1	0.69	0.66	0.73	16.4
All V	ehicles	4069	2.2	4069	2.2	0.960	52.1	LOS D	27.8	173.0	0.89	0.91	1.08	15.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	Movement Performance - Pedestrians												
Mov ID	Description	Demand Flow ped/h	Average Delay sec		Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate					
P1	South Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95					
P2	East Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95					
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95					
All Pe	edestrians	150	56.8	LOS E			0.95	0.95					

Site: 101 [EX PM COLEMAN ST - WESTERN MOTORWAY OFF-RAMP + MSCP S1]

New Site

Site Category: (None)

Roundabout

Mov	ement	Perform	ance	- Vehic	cles									
Mov ID	Turn	Demand Total		Arrival Total	Flows HV	Deg. Satn	Average Delay	Level of Service	Aver. Back Queue Vehicles Dis		Prop. Queued	Effective Stop	Aver. A No. Cycles S	Averag e
		veh/h		veh/h	пv %	v/c	sec		venicies dis	tance m		Rate	Cycles	km/h
Sout	h: COL	EMAN ST												
1	L2	4	0.0	4	0.0	0.781	10.6	LOSA	1.2	7.4	0.64	0.91	1.04	34.6
2	T1	333	0.6	333	0.6	0.781	10.7	LOS A	1.2	7.4	0.64	0.91	1.04	45.1
3u	U	5	0.0	5	0.0	0.781	18.7	LOS B	1.2	7.4	0.64	0.91	1.04	54.3
Appr	oach	342	0.6	342	0.6	0.781	10.8	LOSA	1.2	7.4	0.64	0.91	1.04	45.2
East	: WEST	ERN MOT	ORWA	AY OFF	-RAMP									
4	L2	209	2.9	209	2.9	0.368	6.2	LOS A	1.0	6.4	0.60	0.67	0.60	52.2
5	T1	3	0.0	3	0.0	0.368	6.0	LOS A	1.0	6.4	0.60	0.67	0.60	38.7
6	R2	600	1.2	600	1.2	0.368	11.9	LOSA	1.0	6.4	0.60	0.70	0.60	45.2
Appr	oach	812	1.6	812	1.6	0.368	10.4	LOSA	1.0	6.4	0.60	0.69	0.60	47.7
Nortl	h: COLE	EMAN ST												
8	T1	424	1.2	424	1.2	0.284	3.6	LOS A	0.6	3.5	0.06	0.36	0.06	58.0
9	R2	7	14.3	7	14.3	0.284	9.4	LOS A	0.6	3.5	0.06	0.36	0.06	43.8
9u	U	14	71.4	14	71.4	0.284	12.4	LOS A	0.6	3.5	0.06	0.36	0.06	53.3
Appr	oach	445	3.6	445	3.6	0.284	3.9	LOSA	0.6	3.5	0.06	0.36	0.06	57.8
Wes	t: WES	TMEAD HO	OSPITA	AL ACC	CESS									
10	L2	9	0.0	9	0.0	0.034	4.5	LOS A	0.0	0.2	0.62	0.72	0.62	21.6
12	R2	7	0.0	7	0.0	0.034	9.7	LOSA	0.0	0.2	0.62	0.72	0.62	53.2
Appr	oach	16	0.0	16	0.0	0.034	6.8	LOSA	0.0	0.2	0.62	0.72	0.62	44.9
All V	ehicles	1615	1.9	1615	1.9	0.781	8.7	LOSA	1.2	7.4	0.46	0.65	0.55	50.6

中 Network: N101 [EX PM

PEAK + MSCP S1]

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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V Site: 101 [EX PM SITE ACCESS - GWH + MSCP S1]

中 Network: N101 [EX PM PEAK + MSCP S1]

New Site Site Category: (None) Giveway / Yield (Two-Way)

Move	ement	Perform	ance	- Vehi	icles									
Mov ID	Turn	Demand	Flows	Arriva	l Flows	Deg. Satn	Average Delay	Level of Service	Aver. Ba Quet		Prop. Queued	Effective Stop	Aver. / No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles D	istance m		Rate	Cycles S	Speed km/h
South	: SITE	ACCESS												
1	L2	34	0.0	34	0.0	0.038	7.5	LOS A	0.1	0.4	0.44	0.62	0.44	27.5
Appro	ach	34	0.0	34	0.0	0.038	7.5	LOSA	0.1	0.4	0.44	0.62	0.44	27.5
East:	GWH													
4	L2	34	0.0	34	0.0	0.018	2.3	LOS A	0.0	0.0	0.00	0.50	0.00	35.1
5	T1	1246	3.0	1246	3.0	0.427	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Appro	ach	1280	2.9	1280	2.9	0.427	0.1	NA	0.0	0.0	0.00	0.01	0.00	54.6
West:	GWH													
11	T1	1029	8.5	1029	8.5	0.214	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Appro	ach	1029	8.5	1029	8.5	0.214	0.0	NA	0.0	0.0	0.00	0.00	0.00	59.9
All Ve	hicles	2343	5.3	2343	5.3	0.427	0.2	NA	0.1	0.4	0.01	0.02	0.01	58.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Site: 101 [EX PM WHITWORTH ST - GWH + MSCP S1]

+ Network: N101 [EX PM PEAK + MSCP S1]

New Site

Site Category: (None)

Signals - Fixed Time Coordinated Cycle Time = 125 seconds (Network Optimum Cycle Time - Minimum Delay)

Move	ement	Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand Total			Flows	Deg. Satn	Average Delay	Level of Service	Aver. B Que	ue	Prop. Queued	Effective Stop	No.	Averag e
		veh/h		Total veh/h	пv %	v/c	sec		Vehicles I veh	Distance m		Rate	Cycles	km/h
East:	GWH													
5	T1	1373	3.0	1373	3.0	0.312	4.6	LOS A	5.1	31.6	0.33	0.29	0.33	28.5
Appro	oach	1373	3.0	1373	3.0	0.312	4.6	LOSA	5.1	31.6	0.33	0.29	0.33	28.5
North	: WHIT	WORTH:	ST											
7	L2	40	5.0	40	5.0	0.164	57.8	LOS E	1.3	8.5	0.92	0.73	0.92	20.9
Appro	oach	40	5.0	40	5.0	0.164	57.8	LOS E	1.3	8.5	0.92	0.73	0.92	20.9
West	: GWH													
10	L2	18	11.1	18	11.1	0.011	2.3	LOSA	0.0	0.1	0.02	0.50	0.02	52.3
11	T1	1011	8.4	1011	8.4	0.356	1.0	LOS A	1.2	8.1	0.06	0.06	0.06	33.5
Appro	oach	1029	8.5	1029	8.5	0.356	1.0	LOSA	1.2	8.1	0.06	0.07	0.06	37.8
All Ve	hicles	2442	5.3	2442	5.3	0.356	4.0	LOSA	5.1	31.6	0.23	0.20	0.23	28.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab).

Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	ement Performance - Pe	destrians						
Mov ID	Description	Demand Flow ped/h	Average Delay sec		Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate
P2	East Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
All Pe	edestrians	100	56.8	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

V Site: 101 [EX PM BELINDA PL - GWH + MSCP S2 - Without

中 Network: N101 [EX PM PEAK + MSCP S2 - Without Ex Access]

New Site

Site Category: (None) Giveway / Yield (Two-Way)

Move	ement	: Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arriva	l Flows	Deg. Satn	Average Delay	Level of Service	Aver. Bad Queu		Prop. Queued	Effective Stop	Aver. / No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles Diveh	istance m		Rate	Cycles S	Speed km/h
South	n: BELI	NDA PL	,,		,,	., -								
1	L2	88	0.0	88	0.0	0.053	6.6	LOS A	0.1	0.5	0.42	0.63	0.42	48.6
Appro	oach	88	0.0	88	0.0	0.053	6.6	LOSA	0.1	0.5	0.42	0.63	0.42	48.6
East:	GWH													
4	L2	404	0.0	404	0.0	0.218	5.6	LOS A	0.0	0.0	0.00	0.58	0.00	53.6
5	T1	1194	3.4	1194	3.4	0.320	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Appro	oach	1598	2.5	1598	2.5	0.320	1.4	NA	0.0	0.0	0.00	0.15	0.00	57.2
West	: GWH													
11	T1	1028	8.5	1028	8.5	0.253	0.0	LOS A	0.0	0.0	0.00	0.00	0.00	59.9
Appro	oach	1028	8.5	1028	8.5	0.253	0.0	NA	0.0	0.0	0.00	0.00	0.00	59.9
All Ve	hicles	2714	4.7	2714	4.7	0.320	1.1	NA	0.1	0.5	0.01	0.11	0.01	57.0

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Site: 101 [EX PM BRIDGE ST - GWH + MSCP S2 - Without Ex Access]

中 Network: N101 [EX PM PEAK + MSCP S2 - Without Ex Access]

**New Site** 

Site Category: (None)

Signals - Fixed Time Coordinated Cycle Time = 125 seconds (Network Optimum Cycle Time - Minimum Delay)

Move	ement	Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand	Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. Ba Que		Prop. Queued	Effective Stop	Aver. <i>I</i> No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles [ veh	Distance m		Rate	Cycles S	Speed km/h
East:	GWH													
5	T1	1893	2.7	1893	2.7	0.447	6.6	LOS A	7.8	48.6	0.37	0.33	0.37	50.8
6	R2	355	0.3	355	0.3	0.920	58.1	LOS E	12.3	74.0	0.75	0.91	1.04	22.8
Appro	oach	2248	2.3	2248	2.3	0.920	14.7	LOS B	12.3	74.0	0.43	0.43	0.47	42.5
North	: BRID	GE ST												
7	L2	204	1.5	204	1.5	0.198	19.9	LOS B	3.7	22.5	0.53	0.72	0.53	36.5
9	R2	276	0.4	276	0.4	0.887	72.5	LOS F	11.6	70.0	1.00	0.96	1.29	27.1
Appro	oach	480	8.0	480	8.0	0.887	50.1	LOS D	11.6	70.0	0.80	0.86	0.97	29.1
West	: GWH													
10	L2	72	1.4	72	1.4	0.114	35.3	LOS C	1.8	11.0	0.72	0.73	0.72	37.3
11	T1	959	3.1	959	3.1	0.920	62.8	LOS E	25.5	158.6	1.00	1.09	1.28	19.7
Appro	oach	1031	3.0	1031	3.0	0.920	60.9	LOS E	25.5	158.6	0.98	1.07	1.24	21.0
All Ve	hicles	3759	2.3	3759	2.3	0.920	31.9	LOS C	25.5	158.6	0.63	0.66	0.75	32.0

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	ement Performance - F	Pedestrians						
Mov ID	Description	Demand Flow ped/h	Average Delay sec		Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
P41	West Stage 1	50	56.8	LOS E	0.2	0.2	0.95	0.95
P42	West Stage 2	50	56.8	LOS E	0.2	0.2	0.95	0.95
All Pe	destrians	150	56.8	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay)
Pedestrian movement LOS values are based on average delay per pedestrian movement.
Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

Site: 101 [EX PM BURNETT ST - GWH + MSCP S2 - Without Ex Access]

中 Network: N101 [EX PM PEAK + MSCP S2 - Without Ex Access]

New Site

Site Category: (None)

Signals - Fixed Time Isolated Cycle Time = 140 seconds (Site User-Given Phase Times)

Mov	ement	Performa	ance	- Vehi	cles									
Mov ID	Turn	Demand I	Flows	Arrival	Flows	Deg. Satn	Average Delay	Level of Service	Aver. Ba Quel		Prop. Queued	Effective Stop	Aver. / No.	Averag e
		Total veh/h		Total veh/h	HV %	v/c	sec		Vehicles D	istance m		Rate	Cycles S	Speed km/h
South	n: BUR	NETT ST												
1	L2	73	1.4	73	1.4	0.569	57.3	LOS E	8.9	54.1	0.94	0.83	0.94	21.1
3	R2	398	1.0	398	1.0	0.569	57.8	LOS E	8.9	54.1	0.94	0.83	0.94	30.4
Appro	oach	471	1.1	471	1.1	0.569	57.7	LOS E	8.9	54.1	0.94	0.83	0.94	29.3
East:	GWH													
4	L2	495	1.2	495	1.2	0.660	41.4	LOS C	16.6	101.1	0.87	0.85	0.87	35.1
5	T1	1339	3.1	1339	3.1	0.953	70.0	LOS E	38.2	237.2	0.97	1.10	1.25	18.3
Appro	oach	1834	2.6	1834	2.6	0.953	62.3	LOS E	38.2	237.2	0.94	1.03	1.15	23.0
West	: GWH													
11	T1	733	3.5	733	3.5	0.278	8.6	LOSA	5.7	35.5	0.41	0.36	0.41	52.6
12	R2	299	0.7	299	0.7	0.666	57.2	LOS E	11.3	68.6	0.96	0.84	0.96	30.5
Appro	oach	1032	2.7	1032	2.7	0.666	22.7	LOS B	11.3	68.6	0.57	0.50	0.57	43.4
All Ve	ehicles	3337	2.4	3337	2.4	0.953	49.4	LOS D	38.2	237.2	0.83	0.84	0.94	29.4

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	ement Performance - Pec	destrians						
Mov ID	Description	Demand Flow	Average Delay		Average Back Pedestrian	of Queue Distance	Prop. Queued	Effective Stop Rate
		ped/h	sec		ped	m		
P1	South Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
P4	West Full Crossing	50	64.3	LOS F	0.2	0.2	0.96	0.96
All Pe	edestrians	100	64.3	LOS F			0.96	0.96

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

Site: 101 [EX PM COLEMAN ST - HAWKESBURY RD - GWH + MSCP S2 - Without Ex Access]

中 Network: N101 [EX PM PEAK + MSCP S2 - Without Ex Access]

New Site

Site Category: (None)

Signals - Fixed Time Coordinated Cycle Time = 125 seconds (Network Optimum Cycle Time - Minimum Delay)

Мо	vemen	t Perform	ance	- Vehi	cles									
Mov ID	/ Turn	Demand	Flows	Arrival	Flows	Deg. Satn	Average		Aver. Ba		Prop. Queued	Effective Stop	Aver. / No.	Averag
טו		Total	HV	Total	HV	Sauri	Delay	Service	Que Vehicles [		Queueu	Rate	Cycles S	e   Speed
		veh/h		veh/h	%	v/c	sec		veh	m			0,0.00	km/h
Sou	th: COL	EMAN ST												
1	L2	659	2.0	659	2.0	0.917	63.9	LOS E	21.2	130.0	1.00	0.97	1.20	7.2
2	T1	240	8.0	240	8.0	0.917	68.6	LOS E	11.1	67.2	0.99	0.98	1.28	21.5
3	R2	68	0.0	68	0.0	0.917	78.4	LOS F	11.1	67.2	1.00	1.04	1.38	6.6
App	roach	967	1.6	967	1.6	0.917	66.1	LOS E	21.2	130.0	0.99	0.98	1.23	11.9
Eas	t: GWH													
4	L2	85	1.2	85	1.2	0.062	9.1	LOS A	0.9	5.7	0.40	0.65	0.40	40.6
5	T1	1145	3.1	1145	3.1	0.940	61.0	LOS E	28.7	178.4	1.00	1.08	1.24	14.4
6	R2	43	0.0	43	0.0	0.134	61.4	LOS E	1.5	9.3	1.00	0.75	1.00	26.3
App	roach	1273	2.9	1273	2.9	0.940	57.5	LOS E	28.7	178.4	0.96	1.04	1.18	15.6
Nor	th: HAW	/KESBURY	'RD											
7	L2	63	0.0	63	0.0	0.088	22.5	LOS B	1.1	6.4	0.71	0.71	0.71	34.8
8	T1	166	0.0	166	0.0	0.931	72.3	LOS F	15.8	95.1	1.00	1.07	1.36	17.6
9	R2	437	0.7	437	0.7	0.931	81.1	LOS F	15.8	95.1	1.00	1.06	1.41	16.9
App	roach	666	0.5	666	0.5	0.931	73.3	LOS F	15.8	95.1	0.97	1.03	1.33	17.9
Wes	st: GWH	ĺ												
10	L2	167	0.6	167	0.6	0.137	18.3	LOS B	2.5	15.4	0.45	0.69	0.45	38.7
11	T1	839	3.2	839	3.2	0.649	24.5	LOS B	12.5	77.9	0.71	0.61	0.71	12.7
12	R2	157	3.2	157	3.2	0.960	60.5	LOS E	5.5	34.3	0.86	0.88	1.13	5.8
App	roach	1163	2.8	1163	2.8	0.960	28.5	LOS B	12.5	77.9	0.69	0.66	0.73	16.4
All V	/ehicles	4069	2.2	4069	2.2	0.960	53.9	LOS D	28.7	178.4	0.89	0.91	1.09	15.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Move	ement Performance - Pe	destrians						
Mov ID	Description	Demand Flow ped/h	Average Delay sec	Level of Ave Service Pe		of Queue Distance m	Prop. Queued	Effective Stop Rate
P1	South Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
P2	East Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95
All Pe	edestrians	150	56.8	LOS E			0.95	0.95

Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

Site: 101 [EX PM COLEMAN ST - WESTERN MOTORWAY OFF-RAMP + MSCP S2 - Without Ex Access]

中 Network: N101 [EX PM PEAK + MSCP S2 - Without Ex Access]

New Site

Site Category: (None)

Roundabout

Mov	ement	: Perform	ance	- Vehi	cles _									
Mov ID	Turn	Demand Total veh/h	Flows			Deg. Satn	Average Delay sec	Level of Service	Aver. Back Queue Vehicles Dis veh		Prop. Queued	Effective Stop Rate	Aver. A No. Cycles S	e
Sout	h: COL	EMAN ST	70	VOII/II	,,,	V/ O	300		7011					IXIII/II
1	L2	4	0.0	4	0.0	0.781	10.6	LOSA	1.2	7.4	0.64	0.91	1.04	34.6
2	T1	333	0.6	333	0.6	0.781	10.7	LOS A	1.2	7.4	0.64	0.91	1.04	45.1
3u	U	5	0.0	5	0.0	0.781	18.7	LOS B	1.2	7.4	0.64	0.91	1.04	54.3
Appr	oach	342	0.6	342	0.6	0.781	10.8	LOSA	1.2	7.4	0.64	0.91	1.04	45.2
East	: WEST	ERN MOT	ORWA	AY OFF	-RAMP									
4	L2	209	2.9	209	2.9	0.368	6.2	LOS A	1.1	6.5	0.60	0.67	0.60	52.2
5	T1	3	0.0	3	0.0	0.368	6.1	LOS A	1.1	6.5	0.60	0.67	0.60	38.7
6	R2	600	1.2	600	1.2	0.368	11.9	LOSA	1.1	6.5	0.60	0.70	0.60	45.2
Appr	oach	812	1.6	812	1.6	0.368	10.4	LOSA	1.1	6.5	0.60	0.69	0.60	47.7
Nortl	n: COLE	EMAN ST												
8	T1	424	1.2	424	1.2	0.284	3.6	LOS A	0.6	3.5	0.06	0.36	0.06	58.0
9	R2	7	14.3	7	14.3	0.284	9.4	LOS A	0.6	3.5	0.06	0.36	0.06	43.8
9u	U	14	71.4	14	71.4	0.284	12.4	LOS A	0.6	3.5	0.06	0.36	0.06	53.4
Appr	oach	445	3.6	445	3.6	0.284	3.9	LOSA	0.6	3.5	0.06	0.36	0.06	57.8
Wes	t: WES	TMEAD HO	OSPITA	AL ACC	CESS									
10	L2	9	0.0	9	0.0	0.034	4.5	LOS A	0.0	0.2	0.62	0.72	0.62	21.6
12	R2	7	0.0	7	0.0	0.034	9.7	LOSA	0.0	0.2	0.62	0.72	0.62	53.2
Appr	oach	16	0.0	16	0.0	0.034	6.8	LOSA	0.0	0.2	0.62	0.72	0.62	44.9
All V	ehicles	1615	1.9	1615	1.9	0.781	8.7	LOSA	1.2	7.4	0.46	0.65	0.55	50.6

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

Roundabout Capacity Model: SIDRA Standard.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Organisation: TRANSPORT AND TRAFFIC PLANNING ASSOCIATES | Processed: Saturday, 15 August 2020 9:24:02 PM

Project: Y:\WORK16\16019 - MURUGAN TEMPLE, MAYS HILL - From 09178\MODELLING\14082020.sip8

Site: 101 [EX PM WHITWORTH ST - GWH + MSCP S2 - Without Ex Access]

中 Network: N101 [EX PM PEAK + MSCP S2 - Without Ex Access]

**New Site** 

Site Category: (None)

Move	ement	Perform	ance	- Vehi	cles									
Mov ID	Turn	Demand Total		Arrival Total	Flows HV	Deg. Satn	Average Delay	Level of Service	Aver. Ba Quet Vehicles D	ıe	Prop. Queued	Effective Stop Rate	Aver. No. Cycles	Averag e Speed
		veh/h	%	veh/h	%	v/c	sec		veh	m				km/h
East:	GWH													
5	T1	1283	3.2	1283	3.2	0.349	4.7	LOS A	5.9	36.7	0.33	0.30	0.33	28.4
Appro	ach	1283	3.2	1283	3.2	0.349	4.7	LOSA	5.9	36.7	0.33	0.30	0.33	28.4
North	: WHIT	WORTH:	ST											
7	L2	40	5.0	40	5.0	0.164	57.8	LOS E	1.3	8.5	0.92	0.73	0.92	20.9
Appro	ach	40	5.0	40	5.0	0.164	57.8	LOS E	1.3	8.5	0.92	0.73	0.92	20.9
West:	GWH													
10	L2	18	11.1	18	11.1	0.011	5.7	LOSA	0.0	0.1	0.02	0.58	0.02	51.6
11	T1	1011	8.4	1011	8.4	0.356	0.9	LOS A	1.2	8.2	0.06	0.06	0.06	57.2
Appro	ach	1029	8.5	1029	8.5	0.356	1.0	LOSA	1.2	8.2	0.06	0.06	0.06	57.0
All Ve	hicles	2352	5.5	2352	5.5	0.356	4.0	LOSA	5.9	36.7	0.22	0.20	0.22	44.3

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Network Data dialog (Network tab). Vehicle movement LOS values are based on average delay per movement.

Intersection and Approach LOS values are based on average delay for all vehicle movements.

SIDRA Standard Delay Model is used. Control Delay includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Movement Performance - Pedestrians									
Mov ID	Description	Demand Flow ped/h	Average Delay sec		Average Back Pedestrian ped	of Queue Distance m	Prop. Queued	Effective Stop Rate	
P2	East Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95	
P3	North Full Crossing	50	56.8	LOS E	0.2	0.2	0.95	0.95	
All Pedestrians		100	56.8	LOSE			0.95	0.95	

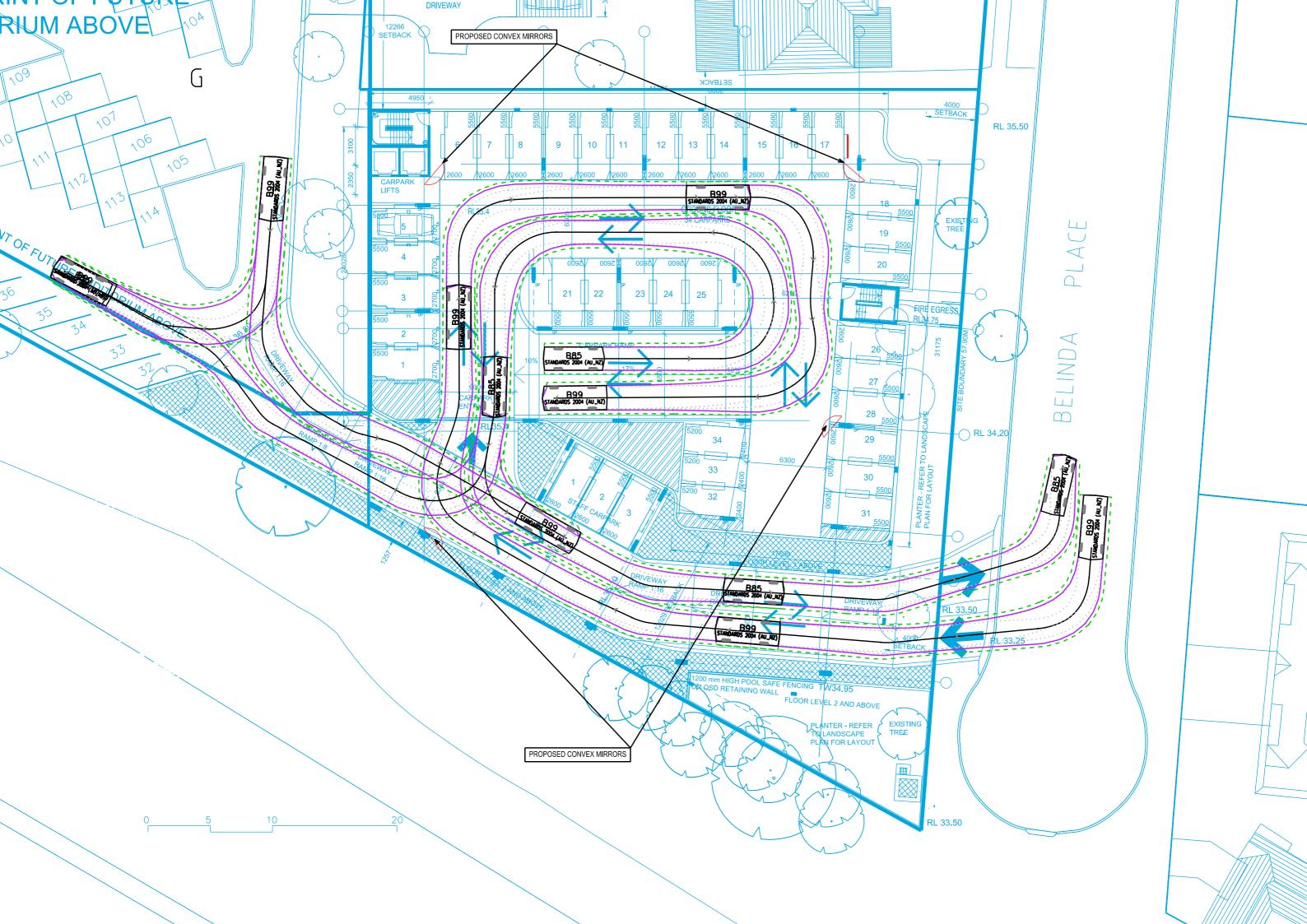
Level of Service (LOS) Method: SIDRA Pedestrian LOS Method (Based on Average Delay) Pedestrian movement LOS values are based on average delay per pedestrian movement. Intersection LOS value for Pedestrians is based on average delay for all pedestrian movements.

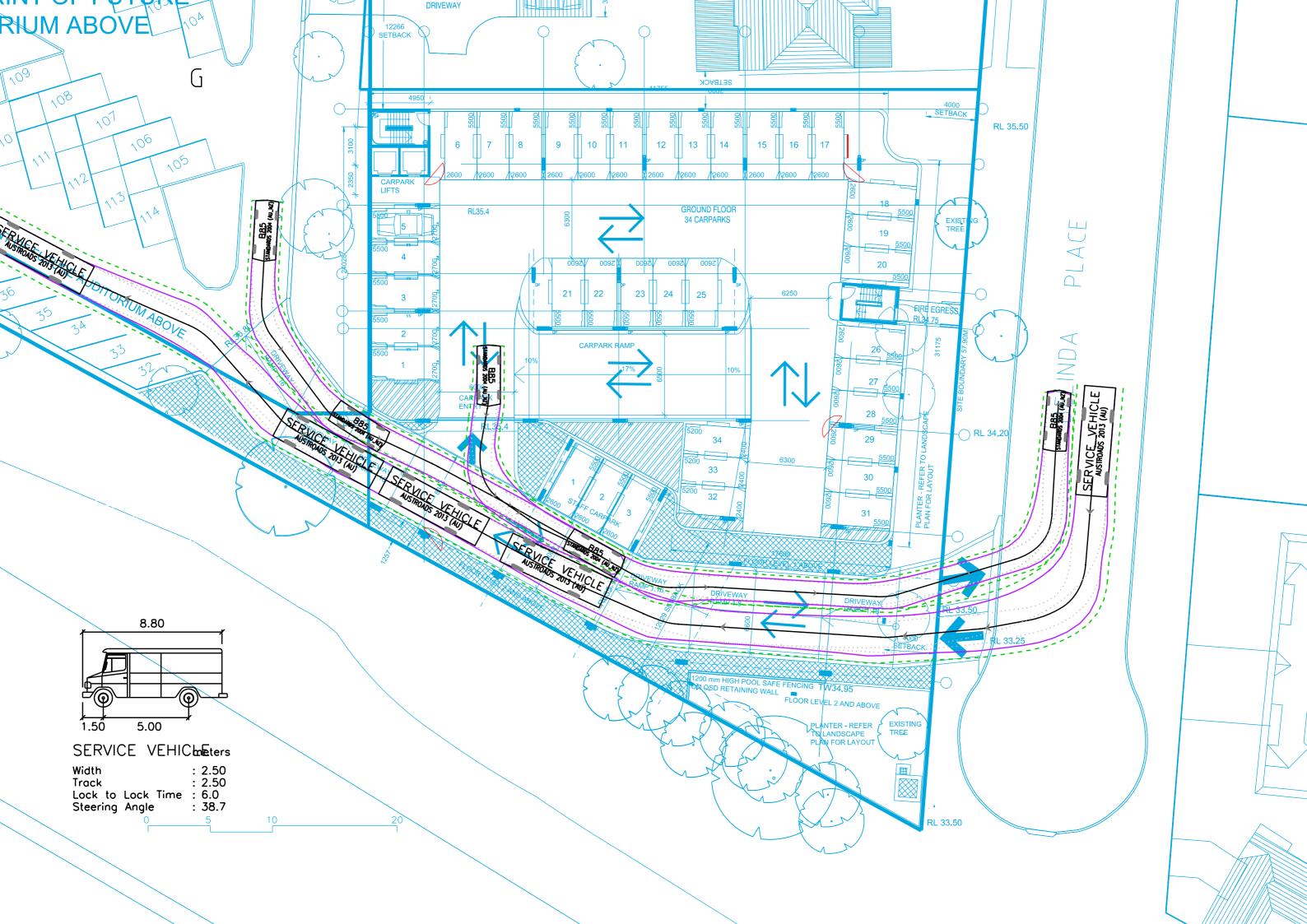
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Organisation: TRANSPORT AND TRAFFIC PLANNING ASSOCIATES | Processed: Saturday, 15 August 2020 9:24:02 PM
Project: Y:\WORK16\16019 - MURUGAN TEMPLE, MAYS HILL - From 09178\MODELLING\14082020.sip8

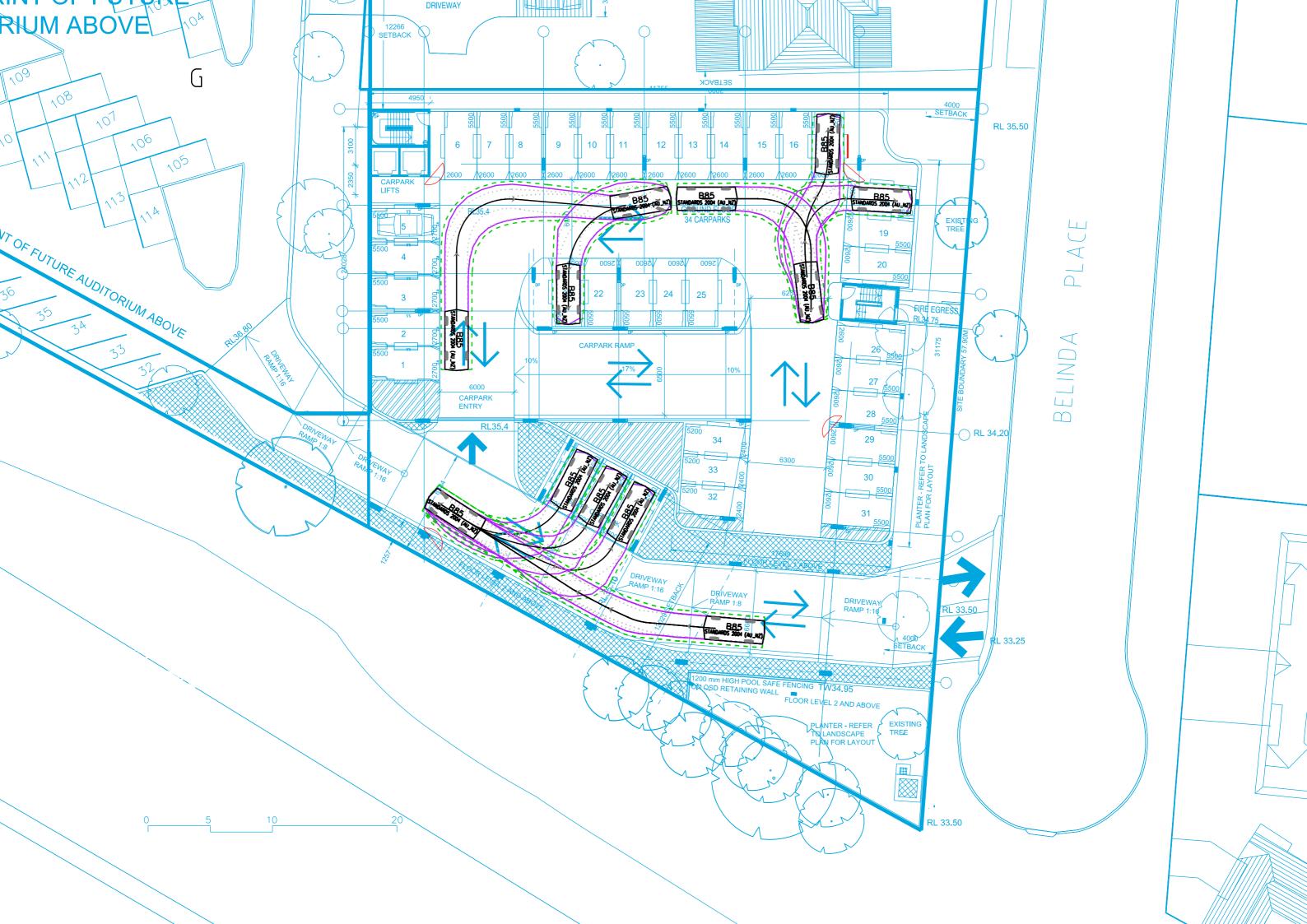
# Appendix E

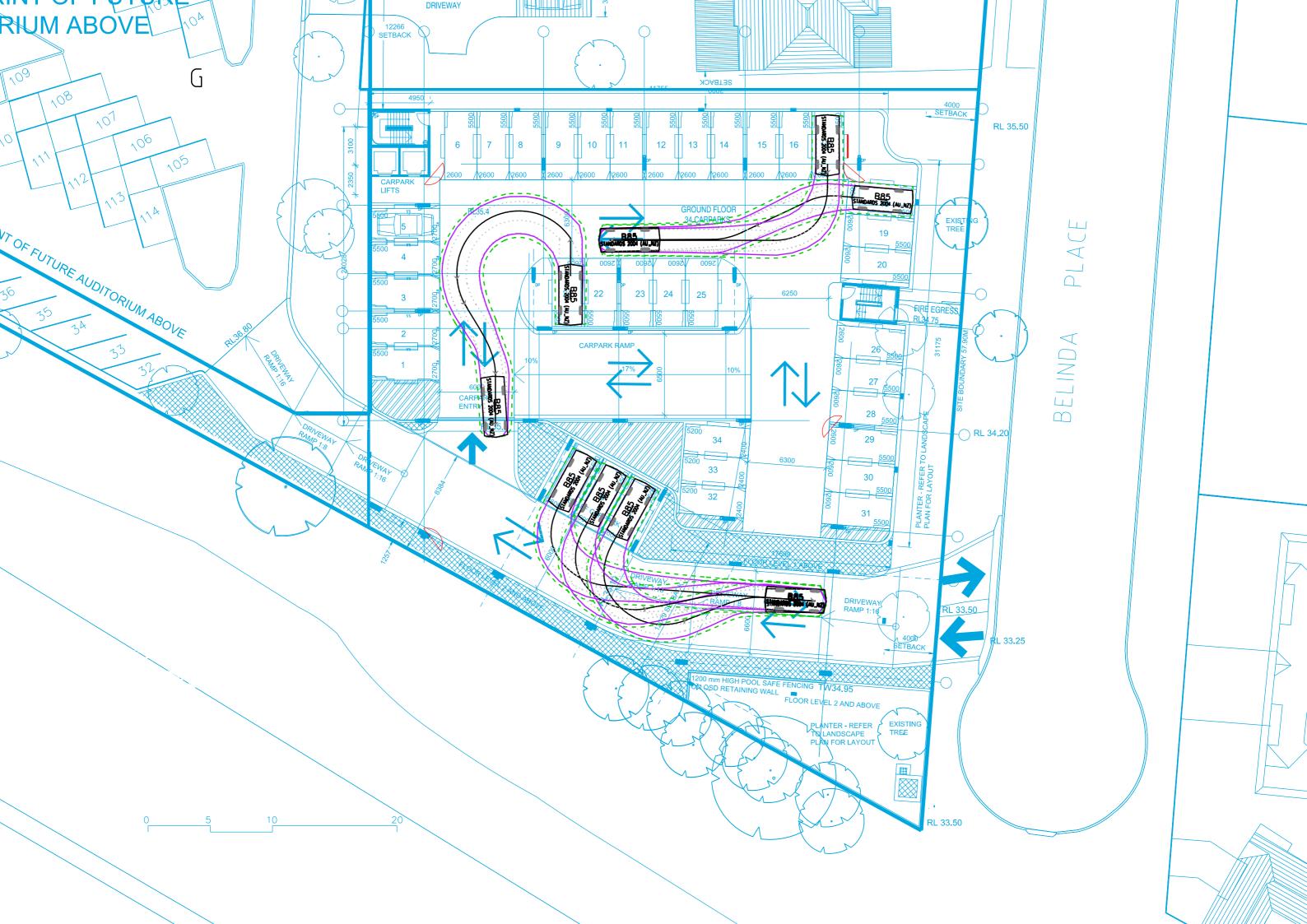
**Turning Path Assessment** 

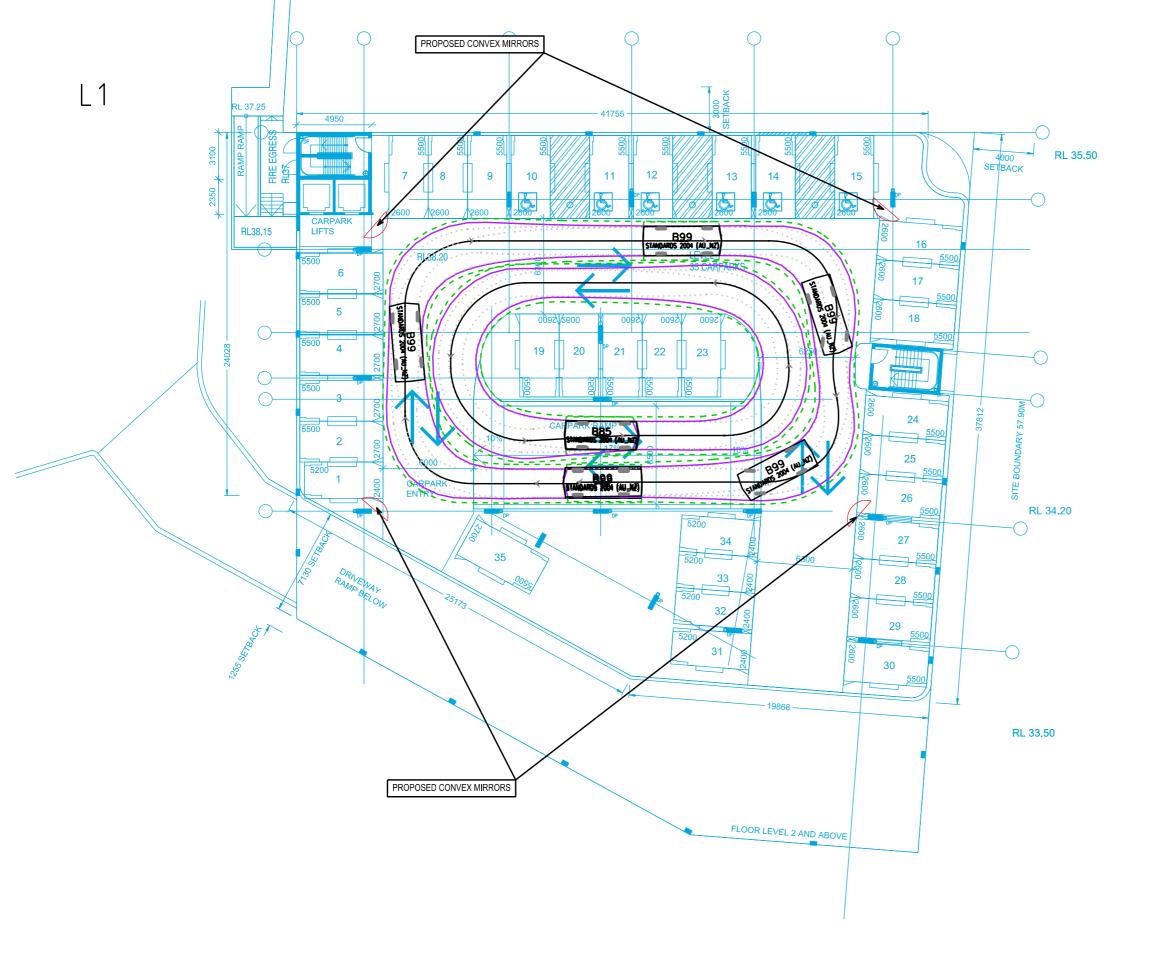






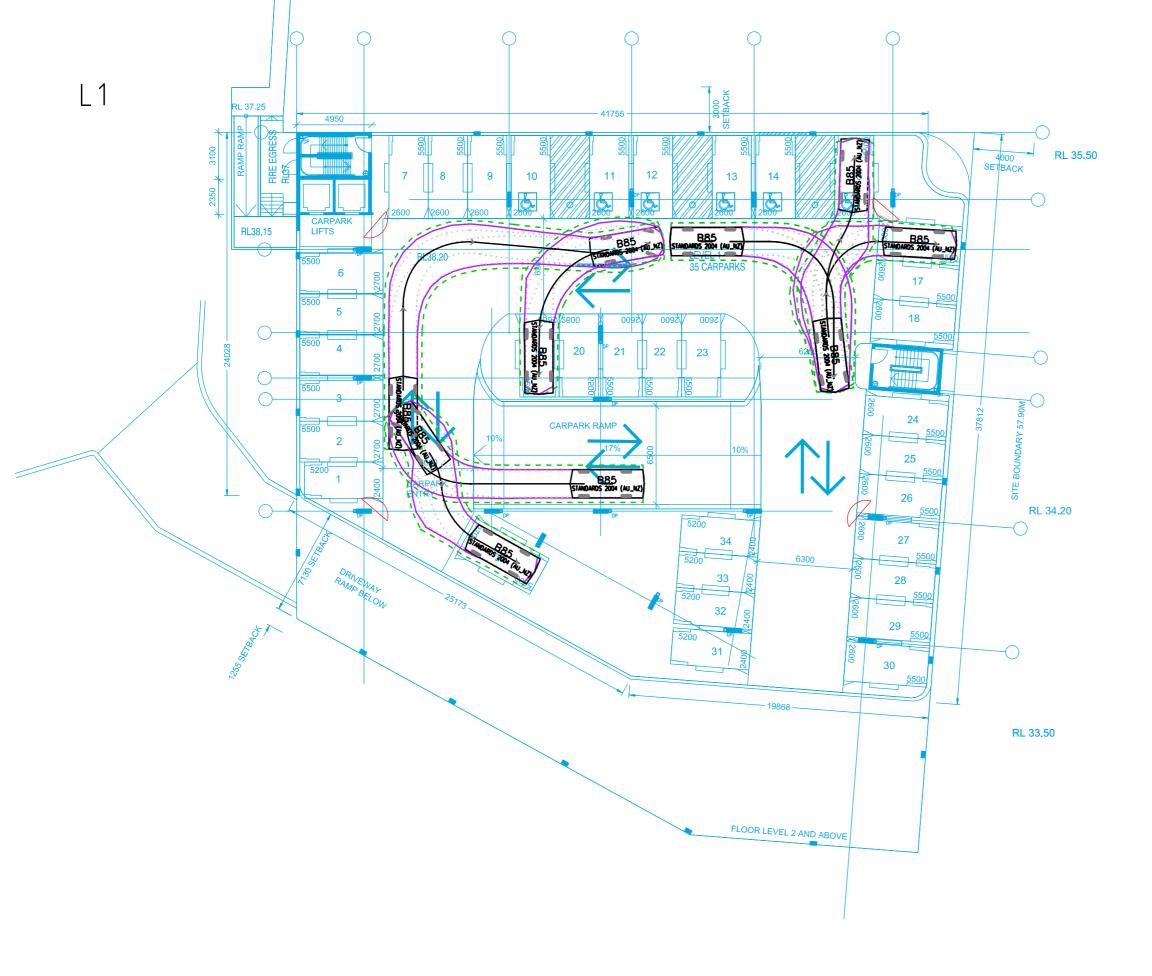






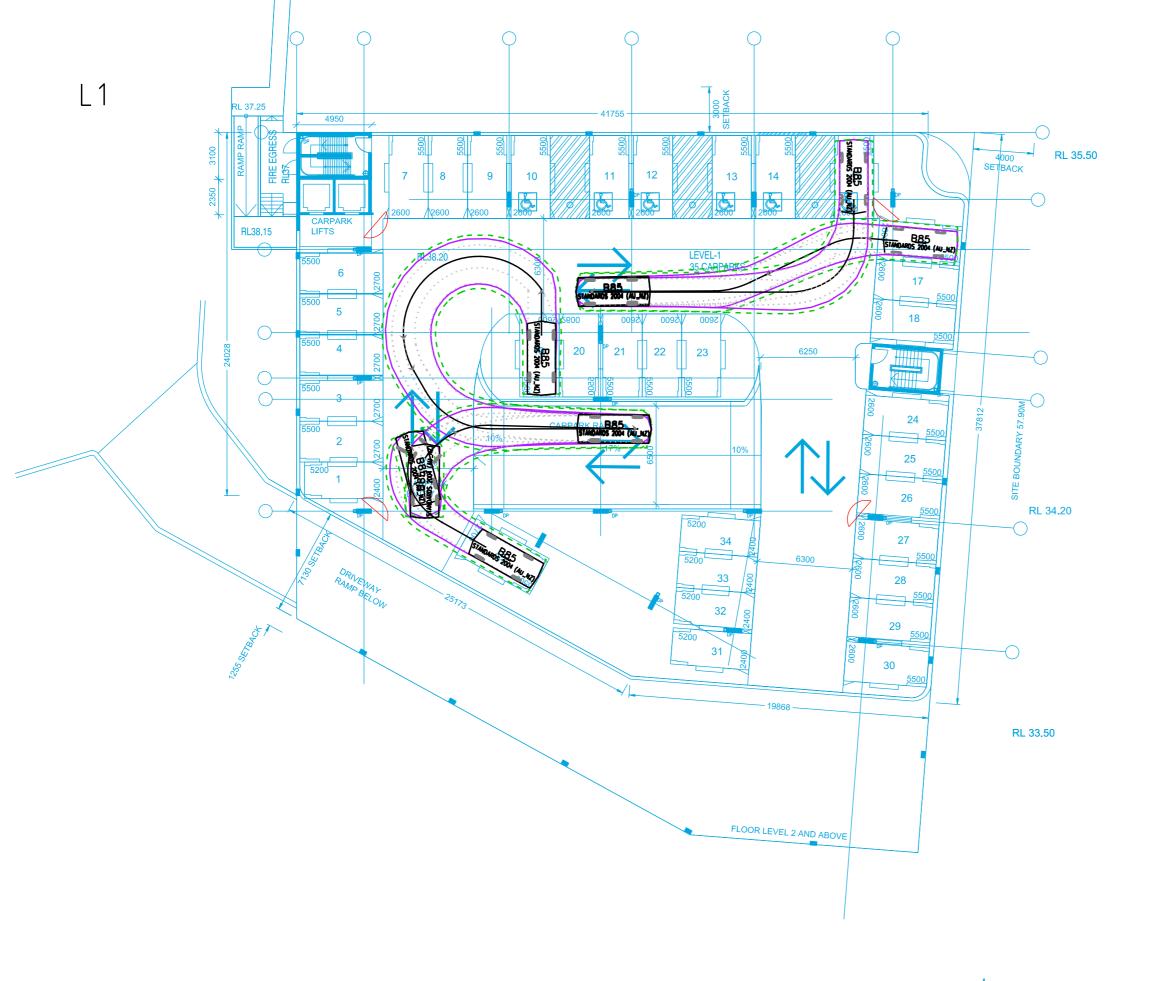
5 10 20

RL 33.50



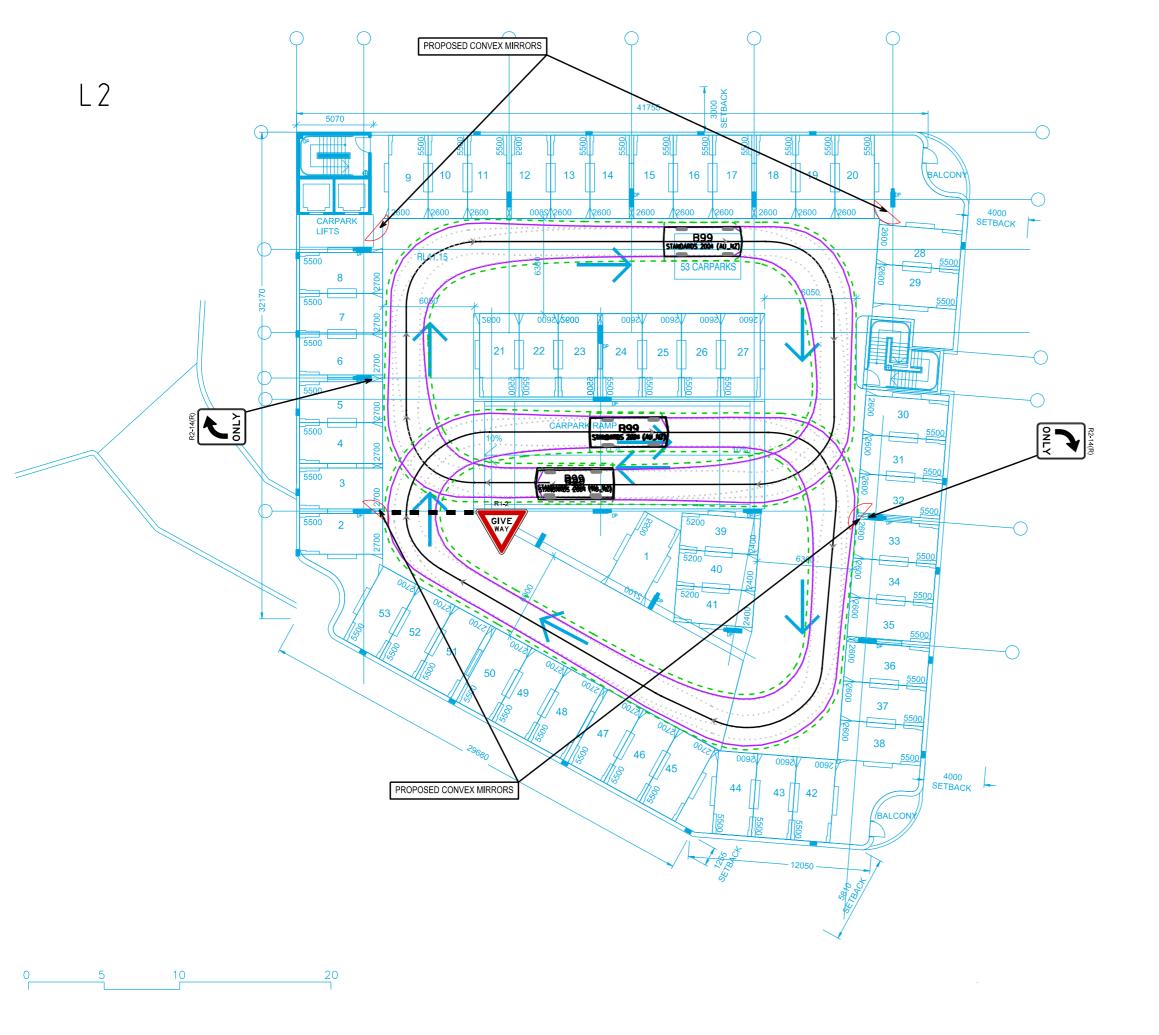
RL 33.50

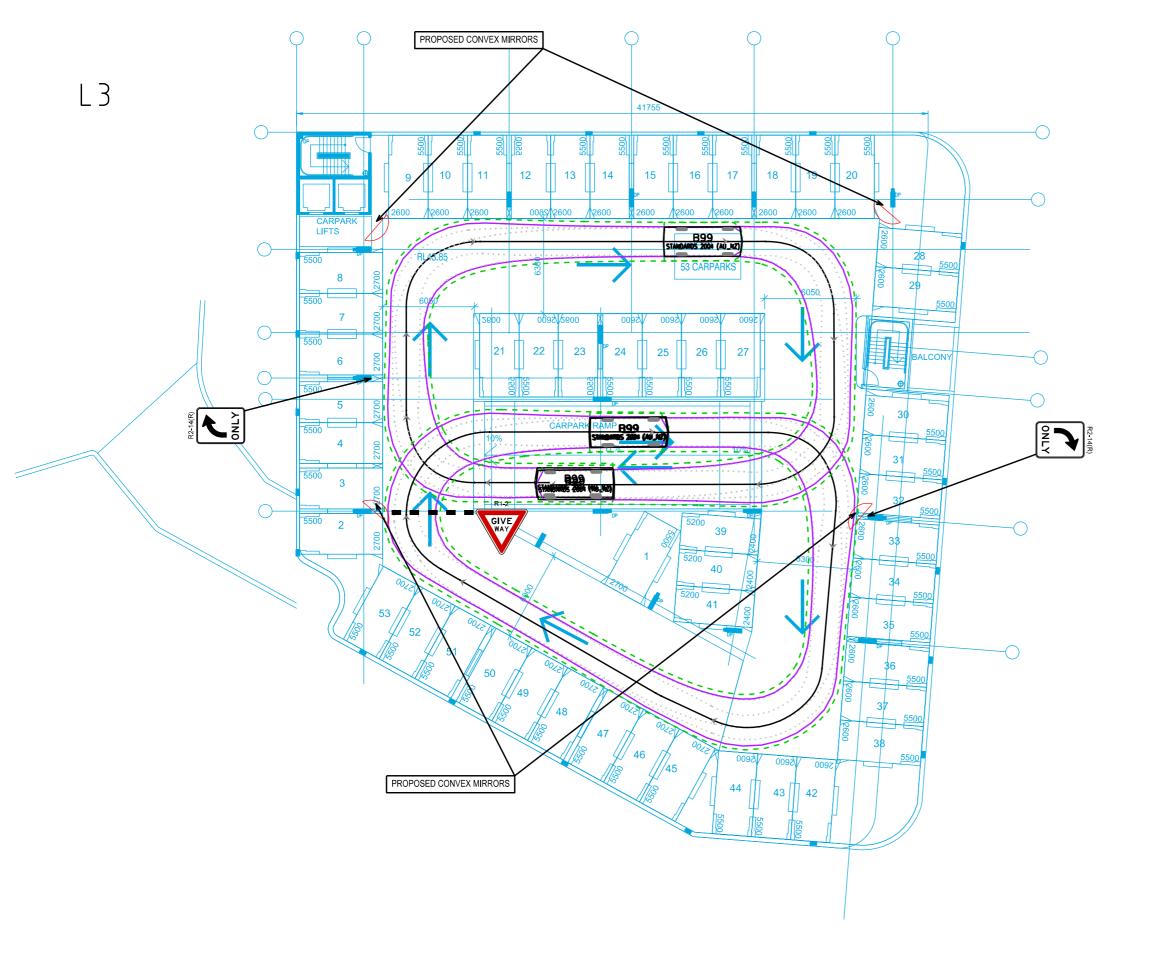
0 5 10 20



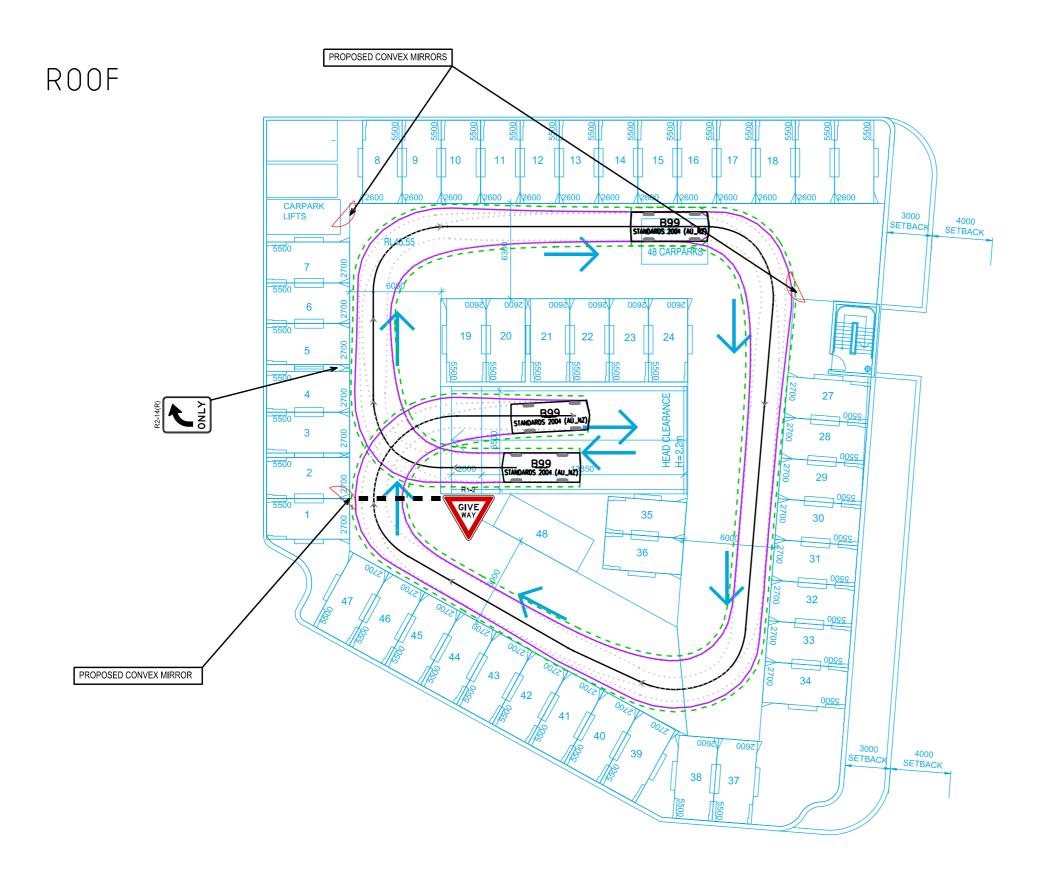
RL 33.50

0 5 10 20

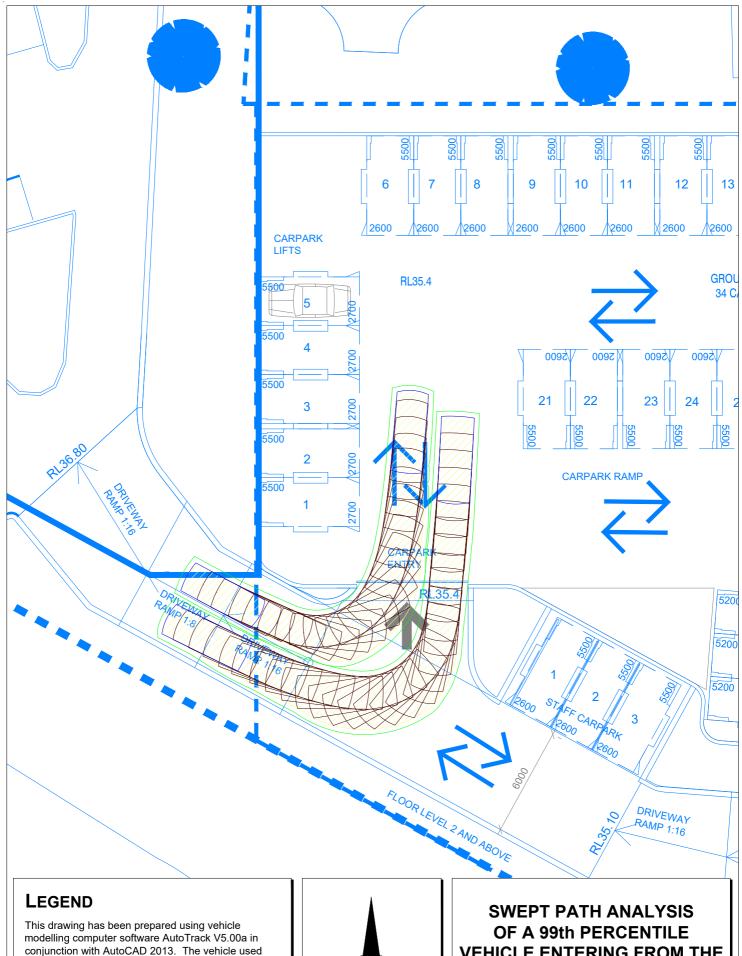




) 5 10 20



5 10 20



Inis drawing has been prepared using vehicle modelling computer software AutoTrack V5.00a in conjunction with AutoCAD 2013. The vehicle used is based upon vehicle data provided by Austroads and incorporates a reasonable degree of tolerance. However, it is not possible to account for all vehicle types/characteristics and/or driver ability.



SWEPT PATH ANALYSIS
OF A 99th PERCENTILE
VEHICLE ENTERING FROM THE
EXISTING CARPARK PASSING
A 99th PERCENTILE
VEHICLE EXITING

SP<sub>1</sub>

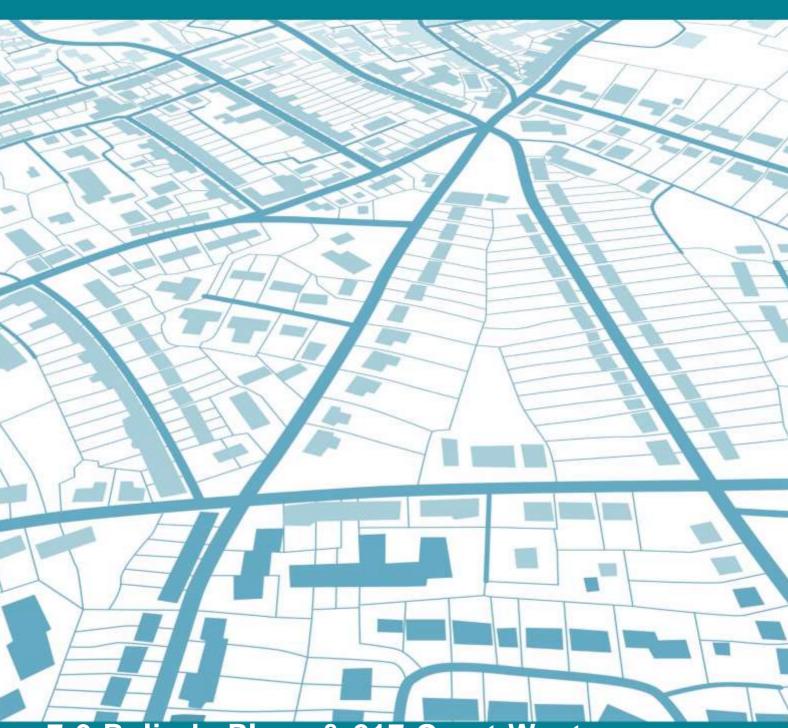
# Appendix F

# Operational Traffic Management Plan



Suite 502, Level 5, 282 Victoria Avenue Chatswood NSW 2067 T (02) 9411 5660 | F (02) 9904 5622 E info@ttpa.com.au | ttpa.com.au

Established 1994



7-9 Belinda Place & 217 Great Western Highway, Mays Hills Proposed Multi-Storey Carpark Operational Traffic Management Plan

Ref: 16019

Date: August 2020

Issue: A

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1.0	INTRODUCTION	1		
2.0	EXISTING TEMPLE'S OPERATION	2		
3.0	PROPOSED MULTI-STOREY CARPARK OPERATION			
	<ul> <li>3.1 Parking Capacity</li> <li>3.2 Operating Hours</li> <li>3.3 Special Event Parking</li> <li>3.4 Set Down / Pick Up</li> <li>3.5 Loading/Unloading</li> </ul>	4 4 5		
4.0	TRAVEL MODES	7		
5.0	TRAVEL DEMAND MANAGEMENT	8		
6.0	MAINTENANCE AND REVIEW	9		

### List of Appendices

Appendix A Development Plans Appendix B Transport Services

### 1.0 Introduction

This Operational Traffic Management Plan (OTMP) has been prepared to accompany a Development Application (DA) to Cumberland Council for the construction of a 5-storey carpark for the existing temple use on a site at 7-9 Belinda Place and 217 Great Western Highway, Mays Hill.

The OTMP will be displayed in prominent locations within the premises and the Temple's website.

The committee will be responsible for ensuring that the terms of the Plan are adhered to at all times. This OTMP incorporates the following:

- All the measures to be implemented on the premises in terms of managing traffic and parking. These include vehicular traffic, loading/unloading and pick up/drop off areas.
- Provide details on the shuttle services, including start time, finish time, and operating days.
- Provide details on overflow management measures during special events.
- Provide details on travel demand management measures to discourage car dependency, such as website travel information, carpooling, etc.
- The committee must not alter the traffic operations at the premises unless development consent has been specifically granted for the change to the approved OTMP.

## 2.0 Existing Temple's Operation

The permitted hours of operation are as follows:

**Temple Opening Hours** 

Friday 7.00 am - 9.30 pm
All other days 7.00 am - 8.30 pm

Daily Pooja Times

Morning 7.00 am and 10.00 am

Afternoon 12.00 pm, 5.00 pm, 7:00 pm and 8:30 pm (9.30 pm on

Fridays)

Kootu Valipadu

Tuesdays 8.00 pm - 8.30 pm Fridays 8.00 pm - 9.00 pm

There are 24 special events which occur each year. This equates to 291 hours per year (3% - 4% time in a year). See details overleaf.

	Day	Morning		Evening				
Date		From	То	From	То	Purpose	No. of hour	
29-Mar	Sun	10:00am	2.00PM	6.30PM	9.30PM	Annual Festival - Day 1	7	
30-Mar	Mon			6.30PM	9.30PM	Annual Festival - Day 2	3	
31-Mar	Tue			6.30PM	9.30PM	Annual Festival - Day 3	3	
1-Apr	Wed			6.30PM	9.30PM	Annual Festival - Day 4	3	
2-Apr	Thu			6.30PM	9.30PM	Annual Festival - Day 5	3	
3-Apr	Fri			6.30PM	9.30PM	Annual Festival - Day 6	3	
4-Apr	Sat			6.30PM	9.30PM	Annual Festival - Day 7	3	
5-Apr	Sun			6.30PM	9.30PM	Annual Festival - Day 8	3	
6-Apr	Mon	10:00am	2.00PM	6.30PM	9.30PM	Annual Festival - Day 9	7	
7-Apr	Tue	10:00am	2.00Pm	6.30PM	9.30PM	Annual Festival - Day 10	7	
8-Apr	Wed			6.30PM	9.30PM	Annual Festival - Day 11	3	
14-Apr	Tue	10.00AM	2.00PM	6.30PM	9.30PM	Tamil New Year	7	
19-Sep	Sat	10:00am	2:00pm			Purataathi Sani	4	
26-Sep	Sat	10:00am	2:00pm			Purataathi Sani	4	
3-Oct	Sat	10:00am	2:00pm	2 - 14		Purataathi Sani	4	
10-Oct	Sat	10:00am	2:00pm			Purataathi Sani	4	
17-26 Oct	Sat-Mon			6.30PM	9.30PM	Navarathiri (10 days)	30	
14-Nov	Sat	10:00am	2:00pm	6.30PM	9.30PM	Diwali	7	
15-Nov	Sun	THE PARTY		6.30PM	9.30PM	Kethara Gowri Viratham	3	
20-Nov	Fri			6.30PM	9.30PM	Skanda Shashti	3	
31st Dec	10.00PM	2.00AM					4	
1-Jan	10.00AM	2.00PM		6.30PM	9.30PM	New Year Day	7	
28-Jan	Thur	10:00am	2:00pm	6.30PM	9.30PM	Thai Poosam	7	
11-Mar	Thur			6:00pm	12:00am	Maha Sivarathiri	6	
	52 Fridays			6:30pm	9.30PM	All Fridays of the year	156	
						Total Hours	291	

Note: This is approximately 3-4 percent of the available hours in a year.

### 3.0 Proposed Multi-Storey Carpark Operation

### 3.1 Parking Capacity

At the completion of the multi-storey carpark (See Appendix A), the on-site parking provision of 325 spaces will comprise:

- 102 on-grade spaces
- 223 new multi-storey carpark spaces with the following breakdown:
  - o Ground-level 34 spaces
  - Level 1 35 spaces
  - Level 2 53 spaces
  - Level 3 53 spaces
  - Rooftop 48 spaces

### 3.2 Operating Hours

The operating hours of the car park will be:

- between 6 am and 10 pm
- 7 days a week
- 365 days a year

During New Year Eve (31 December) and Maha Sivarathiri (11 March), the carpark will operate up to 2.30 am and 12.30 am, respectively.

Access in and out of the carpark will be restricted via the provision of a gate at Belinda Place and a roller shutter at the entry/exit point of the multi-storey carpark building.

### 3.3 Special Event Parking

The following measures will be in place during special events to encourage the use of Belinda Place to access the multi-storey carpark:

Ref. 18271 4

- Website and newsletter advising worshippers and visitors to use the multistorey carpark
- Temple staff to actively supervise carpark and vehicle access activity
- Temple staff to display a sign at Belinda Place intersection to indicate that parking in the at-grade carpark is full and to proceed to the multi-storey carpark to reduce unnecessary vehicles entering and exiting the at-grade in search of parking.

### 3.4 Set Down / Pick Up

Set-down/Pick-up will continue to occur within the internal circulation road consistent with the current arrangement. The 18m long informal set-down/pick-up zone can accommodate up to 3 cars or a 1 shuttle and 1 car at any one time.

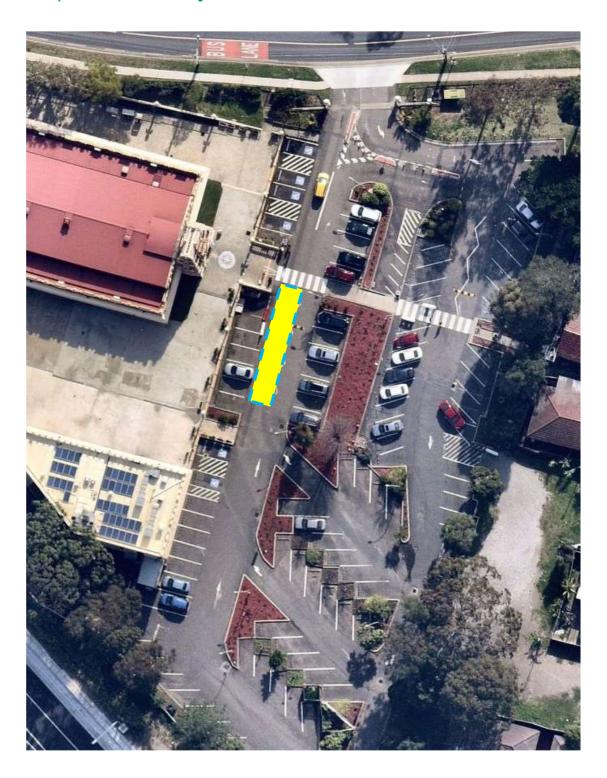
The 7m wide one-way circulation road allows passing opportunities by other vehicles during the set-down/pick-up activities.

The shuttle will be operating on Chariot Day and Theertham Day between Westmead railway station and the Temple from 9 am - 3 pm. Details can be obtained by calling 0403 543 161.

### 3.5 Loading/Unloading

- Access for the service area will be available between 6 am and 10 pm (7 days).
- Refuse removal times will be coordinated for non-peak times (outside of the peak Temple or event hours).
- The on-site manager will monitor the service area to ensure that drivers do not "overstay" in the loading area.
- Couriers and service personnel etc. will be able to use the visitor spaces.

Ref. 18271 5



Ref. 18271 6

### 4.0 Travel Modes

The site is located within 1.3km south of Westmead Railway Station and within 2km from 2 major railway stations – Parramatta and Merrylands. It is located just to the south of the bus stop on the Great Western Highway (westbound lane) and within convenient walking distance of 50m to/from the bus stops along the Great Western Highway (eastbound lane).

Bus routes 810X, 811X and T80 runs along the Great Western Highway, providing connections to Pemulwuy as well as Merrylands, Parramatta and Liverpool Stations.

See Appendix B for the public transport provisions.

The travel modes for visitor, staff and volunteers at the Temple comprise:

- Rail via Westmead, Parramatta and Merrylands
- Sydney Buses connections at Merrylands, Parramatta and Liverpool rail stations
- Free shuttle from Westmead (available for visitors to the Temple during Chariot Day and Theertham Day only)
- Car and park
- Car set down and pick up
- ❖ Walk

### 5.0 Travel Demand Management

The Temple Community is very "tight" with a strong sense of interaction, communication, support and care for the environment. Hence travelling together, including carpooling, is a very natural tendency.

The officials of the Temple will provide website information and issue regular newsletters, particularly in relation to any special events which will:

- facilitate carpooling
- advise of the available bus and train services
- advise of the contact details the free shuttles from Westmead railway station, which are entirely flexible in relation to times and pick-up/set-down locations
- advise of the available car parking provisions
- advise that easy walking conditions are available along the Great Western Highway and Belinda Place footway for pedestrian access

### 6.0 Maintenance and Review

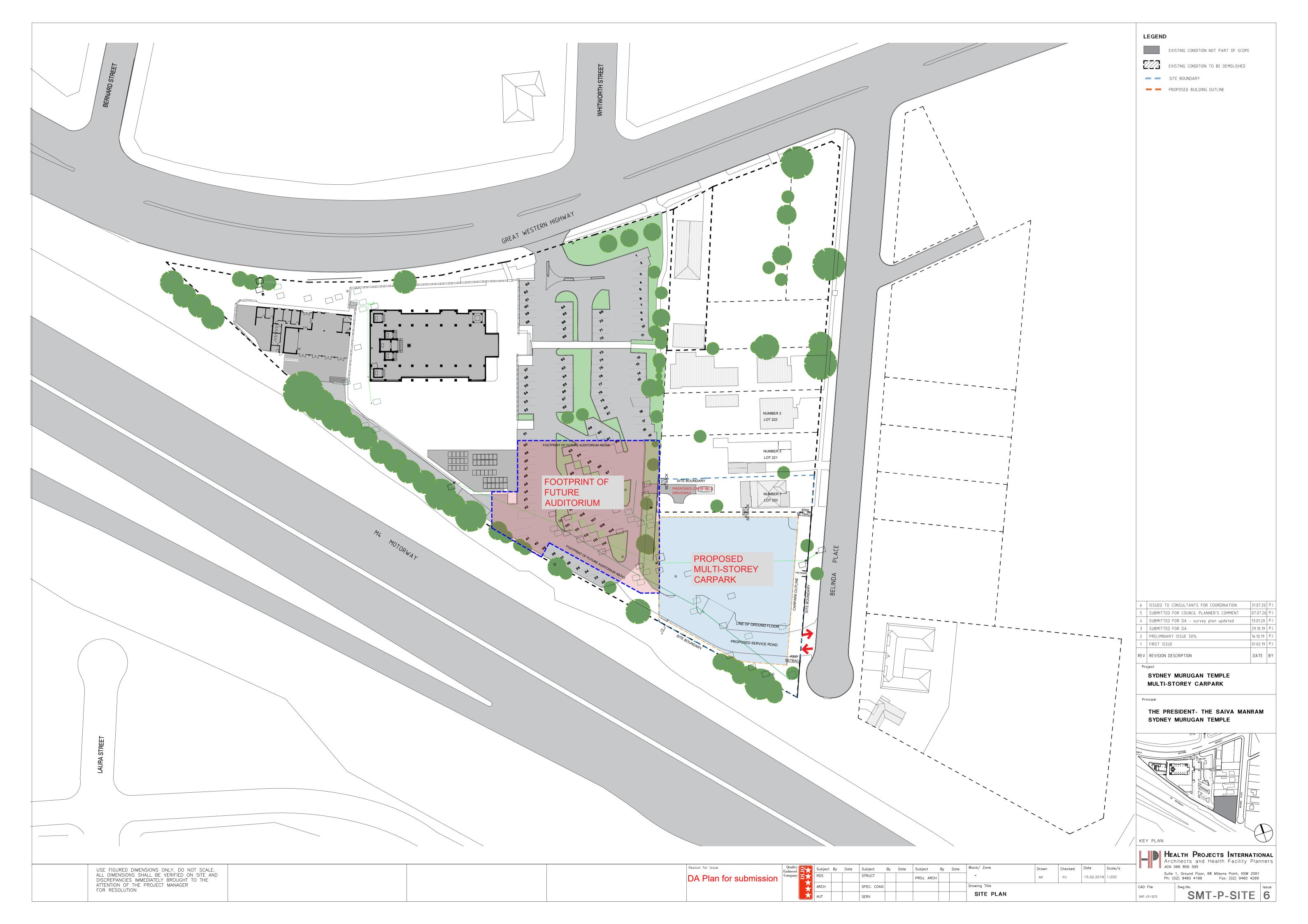
The OTMP will be displayed on the noticeboard and maintained by the committee and will be reviewed on an annual basis as part of the Operational Management Plan review.

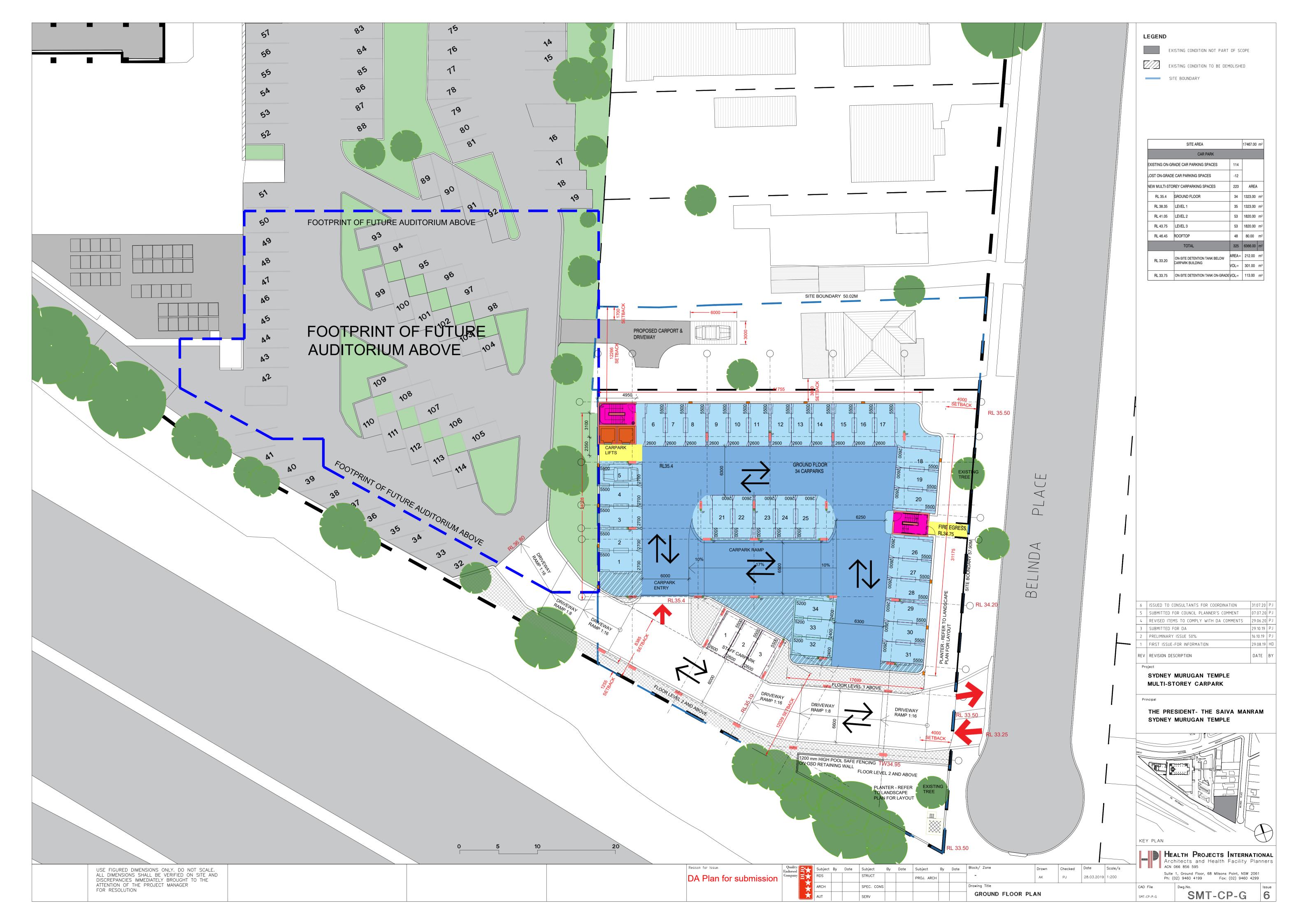
The committee will not alter any traffic or parking operations at the premises without development consent being specifically granted to change the approved OTMP.

# Appendix A

# **Development Plans**

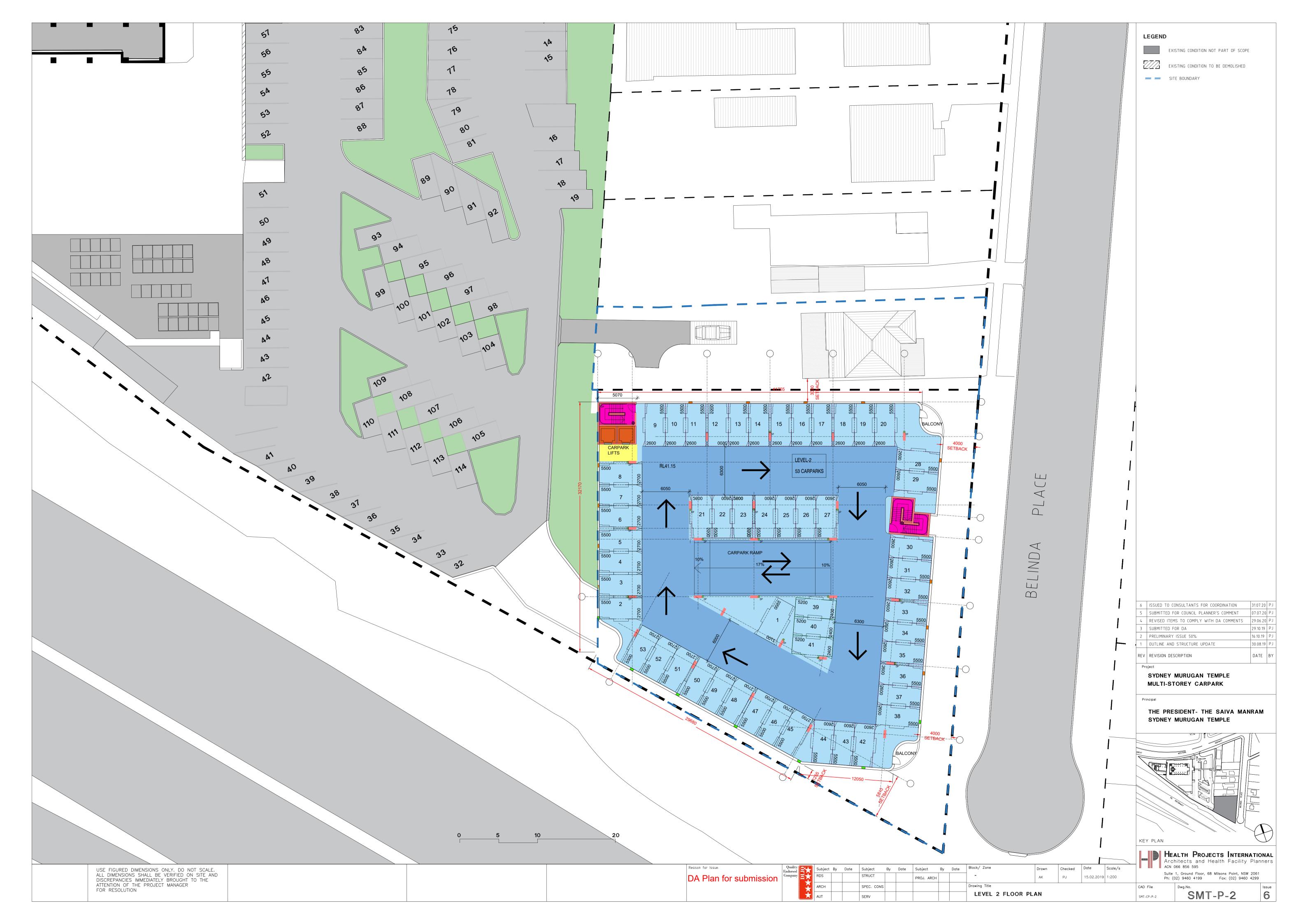














Transport and Traffic Planning Associates

Appendix B

**Transport Services** 



## Sydney rail network









#### Sydney metro and train lines



Chatswood Tallawong



North Shore



Inner West Leppington City





Eastern Suburbs & Illawarra Line Eastern Suburbs Illawarra Cronulla



Check timetables and trip planners for train services and connections

Visit transportnsw.info







Olympic Park Lidcombe



Airport & South Line

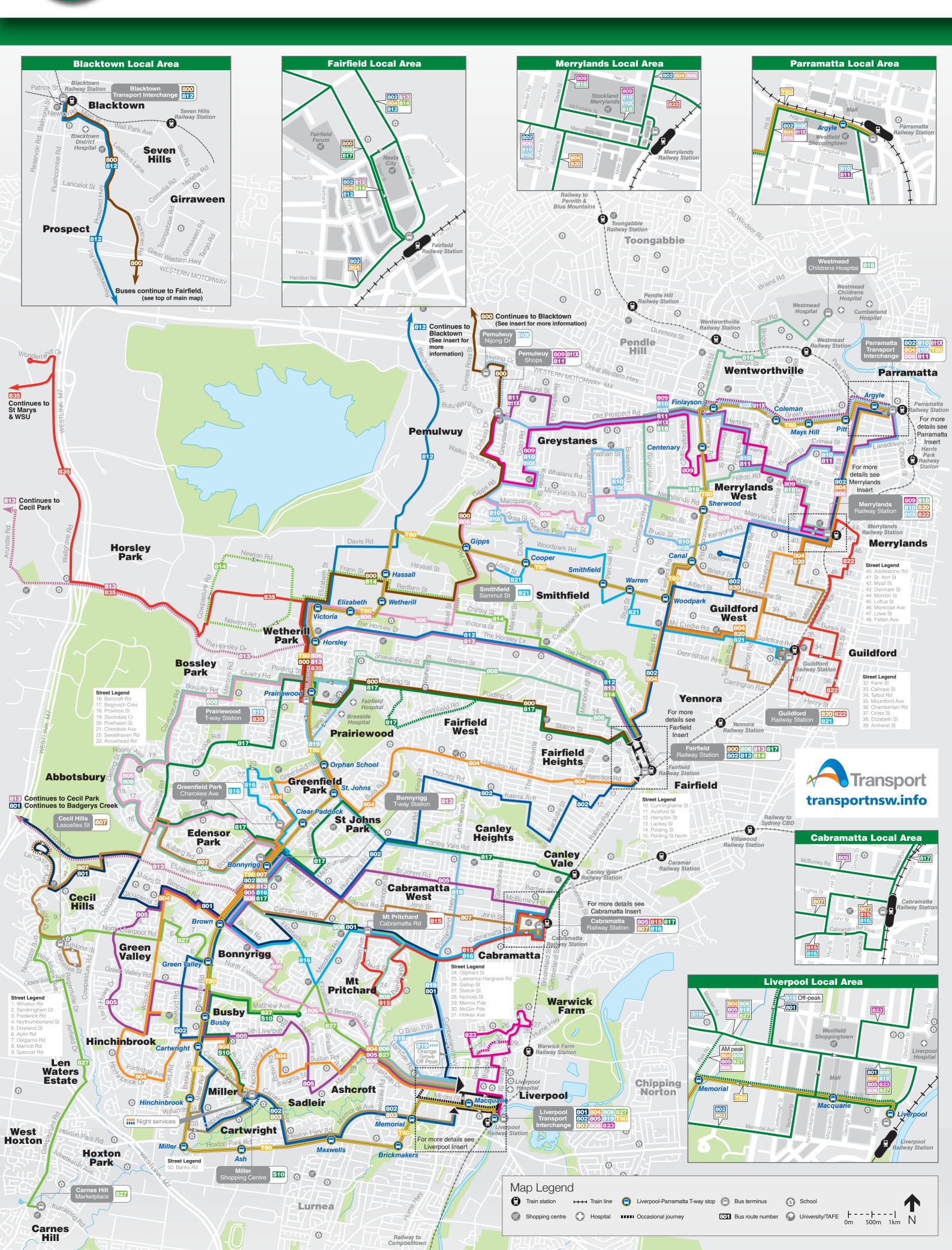
NORTH

# Intercity Trains Network NSW ATransport









# 810X

## Merrylands to Parramatta via Great Western Hwy



#### How to use this timetable

This timetable provides a snapshot of service information in 24-hour time (e.g. 5am = 05:00, 5pm = 17:00). Information contained in this timetable is subject to change without notice. Please note that timetables do not include minor stops, additional trips for special events, short term changes, holiday timetable changes, real-time information or any disruption alerts.

For the most up-to-date times, use the Trip Planner or Departures on **transportnsw.info** 

## Real-time planning

You can plan your trip with real-time information using the Trip Planner or Departures on **transportnsw.info** or by downloading travel apps on your smartphone or tablet.

The Trip Planner, Departures and travel apps offer various features:

- favourite your regular trips
- see where your service is on the route
- get estimated pick up and arrival times
- · receive service updates
- find nearby stations, stops, wharves and routes
- · check accessibility information

Find the latest apps at transportnsw.info/apps

#### Accessible services

All new buses are wheelchair-accessible with low-level floors and space for wheelchairs, prams or strollers. Look for the symbol in this timetable. Some older buses may not have all the features you need. There will be more accessible services as older buses are replaced.

### Who is providing my bus services?

The bus services shown in this timetable are run by Transit Systems.

#### **Fares**

In Sydney and surrounding regions, fares are based on:

- the distance you travel from tap on to tap off
- the mode of transport you choose
- whether you're eligible for a concession fare or free travel
- any Opal benefits such as discounts and capped fares that apply

You can use an Opal card or a contactless payment to pay for your travel.

#### **Opal cards**

An Opal card is a smartcard you keep and reuse. Add value before you travel and tap on and tap off to pay your fares throughout Sydney, the Blue Mountains, Central Coast, the Hunter and the Illawarra.

#### Which Opal card is right for you?

**Adult** - Customers 16 years and over who are not entitled to any concessions and normally pay full fare.

**Child/Youth** - For customers aged 4-15 (inclusive), or customers 16 years or older who hold a NSW/ACT Senior Secondary Student Concession Card.

**Gold Senior/Pensioner** - For eligible NSW and interstate seniors, pensioners, war widows/ers and asylum seekers.

**Concession** - For eligible tertiary students, job seekers, apprentices and trainees.

#### How to get an Opal card

You can get an Adult or Child/Youth Opal card over the counter at Opal retailers that display the Opal sign ②. To find your nearest retailer visit **transportnsw.info/opal**.

If you are eligible to travel with concession fares you can apply for a Gold Senior/Pensioner or Concession Opal card online. Visit **transportnsw.info/opal** for more information.

#### **Contactless payments**

If you have an American Express, Mastercard, Visa card or linked device, you can use it to pay for all public transport on the Opal network. Just make sure to tap on and tap off at Opal readers at the beginning and end of your trip.

Always separate your cards when you tap on and tap off so your preferred card is charged.

You will receive the same travel benefits of an Adult Opal card when you tap on and tap off consistently with the same credit card, debit card or linked device. This includes daily, weekly and weekend travel caps, and a \$2 transfer discount when you change between metro/train, ferry, bus or light rail services within 60 minutes. Adult Opal fare pricing applies.

Find out more at transportnsw.info/contactless

### **Explanation of definitions and symbols**

Ł

Wheelchair Accessible



Trip operates different run time in school vacation







## Parramatta to Merrylands via Great Western Hwy



Valid from: 20 July 2020

Creation date: 14 Aug 2020

NOTE: Information is correct on date of download.

Monday to Friday	Ł	Ł	Ł		હ	£	Ł	Ł	Ł
Service Information			X						
Parramatta Station	06:35	07:03	07:42	08:10	15:16	15:36	15:51	16:21	16:46
Coleman T-way Station - Westmead	06:42		07:49	08:17	15:24	15:44	15:59	16:30	16:55
Old Prospect Rd opp Old Prospect Rd Shops, South Wentworthville	06:45	07:13	07:53	08:21	15:28	15:48	16:03	16:35	17:00
Old Prospect Rd near Beresford Rd, Greystanes	06:51	07:19	07:59	08:28	15:35	15:55	16:10	16:42	17:07
Greystanes High School near Beresford Rd, Greystanes	_	_	08:01	_	_	_	_	_	_
Pemulwuy Marketplace, Butu Wargun Dr, Pemulwuy	06:54	07:22	08:07	08:31	15:38	15:58	16:13	16:45	17:10
Nijong Dr opp Wombat St, Pemulwuy	_	-	_	-	_	16:02	_	_	_
Macquarie Rd opp Boothtown Reserve, Greystanes	07:02	07:30	08:15	-	15:46	-	16:21	16:53	17:18
Holroyd High School, Cumberland Rd, Greystanes	_		08:23	-	_	-	_	_	_
Merrylands Rd before Ringrose Ave, Greystanes	07:17	07:45	08:32	-	15:59	-	16:34	17:06	17:31
Merrylands Station	07:35	08:03	08:50	-	16:14	-	16:49	17:21	17:46
Monday to Friday	Ł	Ł	Ł	Ł	Ł	£	£	Ł	<u>a</u>
Parramatta Station	16:56	17:16	17:26	17:46	17:56	18:16	18:26	18:36	18:50
Coleman T-way Station - Westmead	17:05	17:15	17:35	17:55	18:05	18:25	18:35	18:45	18:59
Old Prospect Rd opp Old Prospect Rd Shops, South Wentworthville	17:09	17:30	17:39	17:59	18:09	18:28	18:38	18:48	19:02
Old Prospect Rd near Beresford Rd, Greystanes	17:16	17:37	17:46	18:06	18:16	18:33	18:43	18:53	19:07
Pemulwuy Marketplace, Butu Wargun Dr, Pemulwuy	17:19	17:40	17:49	18:09	18:19	18:35	18:45	18:55	19:09
Nijong Dr opp Wombat St, Pemulwuy	17:23	_	17:53	-	18:23	-	18:49	-	19:13
Macquarie Rd opp Boothtown Reserve, Greystanes	-	17:48	-	-	-	-	-	-	-
Merrylands Rd before Ringrose Ave, Greystanes	-	18:01	-	-	-	-	-	-	-
Merrylands Station	-	18:16	-	-	-	-	-	-	-
Monday to Friday	£	£	£	Ġ.	Ł	£	Ł		
Parramatta Station	19:05	19:20	19:45	20:30	21:30	22:30	23:35		
Coleman T-way Station - Westmead	19:14	19:29	19:54	20:36	21:36	22:36	23:41		
Old Prospect Rd opp Old Prospect Rd Shops, South Wentworthville	19:17	19:32	19:57	20:39	21:39		23:44		
Old Prospect Rd near Beresford Rd, Greystanes	19:22	19:37	20:02	20:44	21:44	22:44	23:49		
Pemulwuy Marketplace, Butu Wargun Dr, Pemulwuy	19:24	19:39	20:04	20:47	21:47	22:47			
Nijong Dr opp Wombat St, Pemulwuy	19:28	-	-	-		-	-		



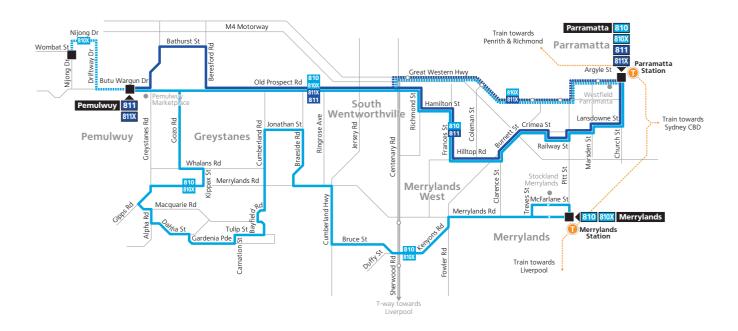
## Merrylands to Parramatta via Great Western Hwy



Monday to Friday         &          &         &
Merrylands Rd opp Ringrose Ave, Greystanes       -       -       06:11       -       06:41       -       07:09       -       07         Macquarie Rd near Gipps Rd, Greystanes       -       -       06:24       -       06:54       -       07:22       -       07
Macquarie Rd near Gipps Rd, Greystanes 06:24 - 06:54 - 07:22 - 07
Pemulwuy Marketplace. Butu Wargun Dr 06:31 - 07:01 - 07:31 - 07
· · · · · · · · · · · · · · · · · · ·
Pemulwuy
Nijong Dr after Wombat St, Pemulwuy 06:09 06:16 - 06:49 - 07:19 - 07:48
Butu Wargun Dr opp Pemulwuy Marketplace, 06:12 06:19 06:33 06:52 07:03 07:22 07:33 07:52 07
Pemulwuy
Greystanes High School near Beresford Rd,
Greystanes
Old Prospect Rd near Beresford Rd, Greystanes 06:15 06:22 06:35 06:55 07:05 07:25 07:35 07:56 08
Old Prospect Rd Shops, Old Prospect Rd, South 06:21 06:28 06:45 07:02 07:15 07:32 07:45 08:08 08
Wentworthville
Coleman T-way Station - Westmead 06:27 06:34 06:51 07:09 07:21 07:39 07:51 08:14 08
Parramatta Station 06:35 06:42 07:00 07:20 07:30 07:50 08:01 08:25 08
Monday to Friday & & & & & & & &
Merrylands Station 15:08 15:28 15:58 16:20 16:50 17:20 17:56 18:26 19
Merrylands Rd opp Ringrose Ave, Greystanes 15:24 15:44 16:14 16:34 17:04 17:34 18:10 18:40 19
Macquarie Rd near Gipps Rd, Greystanes 15:39 15:57 16:27 16:47 17:17 17:47 18:23 18:53 19
Pemulwuy Marketplace, Butu Wargun Dr, 15:46 16:04 16:34 16:54 17:24 17:54 18:30 19:00 19
Pemulwuy
Butu Wargun Dr opp Pemulwuy Marketplace, 15:48 16:06 16:36 16:56 17:26 17:56 18:32 19:02 19
Pemulwuy
Old Prospect Rd near Beresford Rd, Greystanes 15:50 16:08 16:38 16:58 17:28 17:58 18:34 19:04 19
Old Prospect Rd Shops, Old Prospect Rd, South 15:57 16:15 16:45 17:05 17:35 18:05 18:41 19:11 19
Wentworthville
Coleman T-way Station - Westmead 16:04 16:22 16:52 17:12 17:42 18:12 18:48 19:18 19
Parramatta Station 16:13 16:31 17:01 17:22 17:52 18:22 18:58 19:28 20
Monday to Friday & ఓ ఓ
Merrylands Station 20:06
Merrylands Rd opp Ringrose Ave, Greystanes 20:18
Macquarie Rd near Gipps Rd, Greystanes 20:31
Pemulwuy Marketplace, Butu Wargun Dr, 20:38 21:55 22:55
Pemulwuy
Butu Wargun Dr opp Pemulwuy Marketplace, 20:40 21:57 22:57
Pemulwuy
Old Prospect Rd near Beresford Rd, Greystanes 20:42 21:58 22:58
Old Prospect Rd Shops, Old Prospect Rd, South 20:49 22:02 23:02
Wentworthville
Coleman T-way Station - Westmead 20:56 22:07 23:07
Parramatta Station 21:06 22:15 23:15

## Routes 810, 810X, 811, 811X

















# 811X

## **Pemulwuy to Parramatta**



#### How to use this timetable

This timetable provides a snapshot of service information in 24-hour time (e.g. 5am = 05:00, 5pm = 17:00). Information contained in this timetable is subject to change without notice. Please note that timetables do not include minor stops, additional trips for special events, short term changes, holiday timetable changes, real-time information or any disruption alerts.

For the most up-to-date times, use the Trip Planner or Departures on **transportnsw.info** 

## Real-time planning

You can plan your trip with real-time information using the Trip Planner or Departures on **transportnsw.info** or by downloading travel apps on your smartphone or tablet.

The Trip Planner, Departures and travel apps offer various features:

- favourite your regular trips
- see where your service is on the route
- get estimated pick up and arrival times
- · receive service updates
- find nearby stations, stops, wharves and routes
- · check accessibility information

Find the latest apps at transportnsw.info/apps

#### Accessible services

All new buses are wheelchair-accessible with low-level floors and space for wheelchairs, prams or strollers. Look for the symbol in this timetable. Some older buses may not have all the features you need. There will be more accessible services as older buses are replaced.

### Who is providing my bus services?

The bus services shown in this timetable are run by Transit Systems.

#### **Fares**

In Sydney and surrounding regions, fares are based on:

- the distance you travel from tap on to tap off
- the mode of transport you choose
- whether you're eligible for a concession fare or free travel
- any Opal benefits such as discounts and capped fares that apply

You can use an Opal card or a contactless payment to pay for your travel.

#### Opal cards

An Opal card is a smartcard you keep and reuse. Add value before you travel and tap on and tap off to pay your fares throughout Sydney, the Blue Mountains, Central Coast, the Hunter and the Illawarra.

#### Which Opal card is right for you?

**Adult** - Customers 16 years and over who are not entitled to any concessions and normally pay full fare.

**Child/Youth** - For customers aged 4-15 (inclusive), or customers 16 years or older who hold a NSW/ACT Senior Secondary Student Concession Card.

**Gold Senior/Pensioner** - For eligible NSW and interstate seniors, pensioners, war widows/ers and asylum seekers.

**Concession** - For eligible tertiary students, job seekers, apprentices and trainees.

#### How to get an Opal card

You can get an Adult or Child/Youth Opal card over the counter at Opal retailers that display the Opal sign ②. To find your nearest retailer visit **transportnsw.info/opal**.

If you are eligible to travel with concession fares you can apply for a Gold Senior/Pensioner or Concession Opal card online. Visit **transportnsw.info/opal** for more information.

### **Contactless payments**

If you have an American Express, Mastercard, Visa card or linked device, you can use it to pay for all public transport on the Opal network. Just make sure to tap on and tap off at Opal readers at the beginning and end of your trip.

Always separate your cards when you tap on and tap off so your preferred card is charged.

You will receive the same travel benefits of an Adult Opal card when you tap on and tap off consistently with the same credit card, debit card or linked device. This includes daily, weekly and weekend travel caps, and a \$2 transfer discount when you change between metro/train, ferry, bus or light rail services within 60 minutes. Adult Opal fare pricing applies.

Find out more at transportnsw.info/contactless

### **Explanation of definitions and symbols**

& Wheelch

Wheelchair Accessible

M

Bus continues to Merrylands as route 809

A

Then operates via route 809 to Pemulwuy Marketplace - show 811X







# **811X** Parramatta to Pemulwuy



Valid from: 20 July 2020

Creation date: 14 Aug 2020

NOTE: Information is correct on date of download.

Monday to Friday	į &	Ł.	. E	Ł.	<u>.</u>	
Parramatta Station	16:06	16:36	17:06	17:36	18:06	
Coleman T-way Station - Westmead	16:15	16:45	17:15	17:45	18:15	
Old Prospect Rd near Boronia St, South Wentworthville	16:17	16:47	17:17	17:47	18:17	
Old Prospect Rd opp Old Prospect Rd Shops, South Wentworthville	16:21	16:51	17:21	17:51	18:21	
Old Prospect Rd near Beresford Rd, Greystanes Pemulwuy Marketplace, Butu Wargun Dr, Pemulwuy	16:27 <b>M</b> 16:31		17:27 <b>M</b> 17:32 <b>N</b>		18:27 <b>/1</b> 18:31	



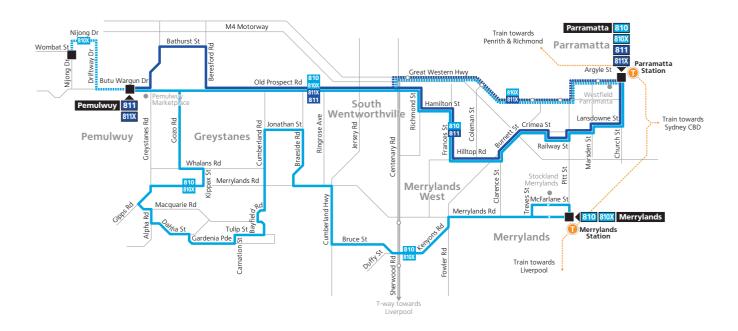
# **811X** Pemulwuy to Parramatta



Monday to Friday	. E	<u>E</u>	. E	<u>E</u>	. E	<u>.</u> & .		
Gozo Rd near Old Prospect Rd, Greystanes	<b>A</b> 05:45	-	-	-	-	-		
Butu Wargun Dr opp Pemulwuy Marketplace,	05:52	06:42	07:11	07:41	08:15	08:46		
Pemulwuy								
Bathurst St at Beresford Rd, Greystanes	05:55	06:45	07:14	07:44	08:18	08:49		
Old Prospect Rd near Beresford Rd, Greystanes	05:59	06:47	07:16	07:47	08:21	08:52		
Old Prospect Rd Shops, Old Prospect Rd, South	06:05	06:55	07:24	07:57	08:31	09:01		
Wentworthville								
Coleman T-way Station - Westmead	06:11	07:01	07:30	08:03	08:37	09:07		
Parramatta Station	06:17	07:10	07:39	08:13	08:47	09:15		

## Routes 810, 810X, 811, 811X

















## Liverpool to Parramatta via T-way



#### How to use this timetable

This timetable provides a snapshot of service information in 24-hour time (e.g. 5am = 05:00, 5pm = 17:00). Information contained in this timetable is subject to change without notice. Please note that timetables do not include minor stops, additional trips for special events, short term changes, holiday timetable changes, real-time information or any disruption alerts.

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- · get estimated pick up and arrival times
- receive service updates
- find nearby stations, stops, wharves and routes
- · check accessibility information

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### Who is providing my bus services?

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- the mode of transport you choose
- whether you're eligible for a concession fare or free travel
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Child/Youth - For customers aged 4-15 (inclusive), or customers 16 years or older who hold a NSW/ACT Senior Secondary Student Concession Card.

**Gold Senior/Pensioner** - For eligible NSW and interstate seniors, pensioners, war widows/ers and asylum seekers.

Concession - For eligible tertiary students, job seekers, apprentices and trainees.

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If you are eligible to travel with concession fares you can apply for a Gold Senior/Pensioner or Concession Opal card online. Visit transportnsw.info/opal for more information.

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Always separate your cards when you tap on and tap off so your preferred card is charged.

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Find out more at transportnsw.info/contactless

## **Explanation of definitions and symbols**

Wheelchair Accessible

Friday only **Operates Friday ONLY** 







Liverpool Interchange, Liverpool

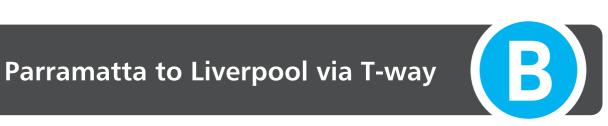
## Parramatta to Liverpool via T-way



Valid from: 20 July 2020				ate: 14 A	_		ownload.		
Monday to Friday	Ł		Ł	Ł	Ł		ė.	Ł	
Parramatta Station		-	05:04	_	05:31	05:46	06:01	_	06:20
Finlayson T-Way Station, South Wentworthville	-	-	05:10	-	05:37	05:52	06:08	-	06:27
Canal T-Way Station - Merrylands West	-	-	05:15	-	05:42	05:57	06:13	-	06:32
Smithfield T-Way Station, Smithfield	04:19	04:49	05:18	05:32	05:45	06:00	06:16	06:24	06:35
Prairiewood T-Way Station, Bossley Park	04:32	05:02	05:32	05:45	05:59	06:14	06:30	06:38	06:49
Bonnyrigg T-Way Station, Bonnyrigg	04:38	05:08	05:38	05:51	06:05	06:20	06:36	06:44	06:55
Miller T-Way Station - Hinchinbrook	04:48	05:18	05:48	06:01	06:15	06:30	06:46	06:54	07:05
Liverpool Interchange, Liverpool	05:03	05:33	06:02	06:16	06:29	06:44	07:01	07:09	07:20
Monday to Friday	. E	ક	<u>E</u>	Ł		Ł	<u>E</u>		
Parramatta Station	06:30	06:40	06:45	06:50	06:55	07:00	07:10	07:20	07:30
Finlayson T-Way Station, South Wentworthville	06:37	06:47	06:52	06:57	07:02	07:07	07:18	07:28	07:38
Canal T-Way Station - Merrylands West	06:42	06:52	06:57	07:02	07:07	07:12	07:24	07:34	07:44
Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park	06:46 07:00	06:56 07:10	07:01 07:15	07:06 07:20	07:11 07:25	07:16 07:30	07:28 07:42	07:38 07:52	07:48 08:02
Bonnyrigg T-Way Station, Bonnyrigg	07:06	07:10	07.13	07.20	07.25	07:37	07:42	07.52	08:02
Miller T-Way Station - Hinchinbrook	07:16	07:16	-	07:37	-	07:47	08:00	08:10	08:20
Liverpool Interchange, Liverpool		07:42	_	07:54	_	08:04	08:17	08:27	08:37
								00.27	
Monday to Friday	07.40	6. 07.F0	<u>&amp;</u>	<u>ا</u>	6 6	<u>ل</u> ا ( ا	<u>.</u>	00.40	00,50
Parramatta Station Finlayson T-Way Station, South Wentworthville	07:40 07:48	07:50 07:58	08:00 08:08	08:10 08:18	08:20 08:28	08:30 08:38	_	08:40 08:48	08:50 08:58
Canal T-Way Station - Merrylands West	07:54	07.38	08:14	08:24	08:34	08:44	_	08:53	09:03
Smithfield T-Way Station, Smithfield	07:58	08:04	08:14	08:28	08:38	08:48	_	08:56	09:06
Prairiewood T-Way Station, Bossley Park	08:12	08:22	08:32	08:42	08:52	09:02	_	09:09	09:19
Bonnyrigg T-Way Station, Bonnyrigg	08:19	08:29	08:39	08:49	08:59	09:09	09:13	09:16	09:26
Miller T-Way Station - Hinchinbrook	08:30	08:40	08:50	09:00	09:10	09:20	09:22	09:26	09:36
Liverpool Interchange, Liverpool	08:47	08:57	09:07	09:17	09:27	09:37	09:39	09:43	09:53
Monday to Friday	Ł	Ł		Ł	Ł	Ł	Ł		<u>s</u>
Parramatta Station	-	09:00	09:10		09:20	09:30		09:40	09:50
Finlayson T-Way Station, South Wentworthville	-	09:08	09:18	-	09:28	09:38	-	09:48	09:58
Canal T-Way Station - Merrylands West	=	09:13	09:23	=	09:33	09:43	=	09:53	10:03
Smithfield T-Way Station, Smithfield	-	09:16	09:26	-	09:36	09:46	-	09:56	10:06
Prairiewood T-Way Station, Bossley Park	-	09:29	09:39	-	09:49	09:59	-	10:09	10:19
Bonnyrigg T-Way Station, Bonnyrigg	09:33	09:36	09:46	09:53	09:56	10:06	10:13	10:16	10:26
Miller T-Way Station - Hinchinbrook	09:42	09:46	09:56	10:02	10:06	10:16	10:22	10:26	10:36
Liverpool Interchange, Liverpool	09:59	10:03	10:13	10:19	10:23	10:32	10:39	10:42	10:52
Monday to Friday	į. E	<u>.</u> &		<u></u> &	<u>.</u>	હ	<u>.</u>		<u>E</u>
Parramatta Station	-	10:00	10:10	-	10:20	10:30	-	10:40	10:50
Finlayson T-Way Station, South Wentworthville		10:08	10:18	-	10:28	10:38 10:43	-	10:48	10:58
Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield	_	10:13 10:16	10:23 10:26	-	10:33 10:36	10:43	_	10:53 10:56	11:03 11:06
Prairiewood T-Way Station, Bossley Park	_	10:16	10:39	_	10:49	10:59	_	11:09	11:19
Bonnyrigg T-Way Station, Bonnyrigg	10:33	10:25	10:33	10:53	10:56	11:06	11:13	11:16	11:15
Miller T-Way Station - Hinchinbrook	10:42	10:46	10:56	11:02	11:06	11:16	11:22	11:26	11:36
Liverpool Interchange, Liverpool	10:59	11:02	11:12	11:19	11:22	11:32	11:39	11:42	
	<u>ا</u>	Ł	Ł	Ł	Ł	Ł	Ł	Ł.	Ġ.
Monday to Friday Parramatta Station	. <u>6</u>	11:00	11:10	<u>. 6</u>	11:20	11:30		11:40	11:50
Finlayson T-Way Station, South Wentworthville	-	11:08	11:18	_	11:28	11:38	_	11:48	11:58
Canal T-Way Station - Merrylands West				_	11:33		_		12:03
	-	11:13	11:75	_	1 1 3 3	11:43		11153	12.03
Smithfield T-Way Station, Smithfield	-	11:13 11:16	11:23 11:26	_		11:43 11:46	_	11:53 11:56	
Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park		11:13 11:16 11:29	11:23 11:26 11:39		11:36 11:49	11:43 11:46 11:59		11:53 11:56 12:09	12:06 12:19
Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg	-	11:16	11:26	-	11:36	11:46	-	11:56	12:06
Prairiewood T-Way Station, Bossley Park	-	11:16 11:29	11:26 11:39	-	11:36 11:49	11:46 11:59	-	11:56 12:09	12:06 12:19

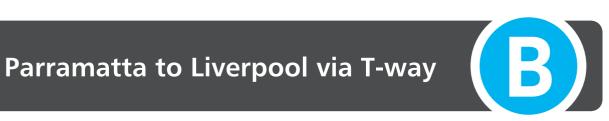
11:59 12:02 12:12 12:19 12:22 12:32 12:39 12:42 12:52





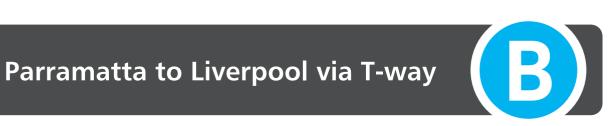
Paramatta Station	Monday to Friday	Ł		Ł.	Ł	Ł.	Ł	Ł		Ł
Finlayson T-Way Station, South Wentworthylle	·	<u> </u>	12:00						12:40	
Canal T-Way Station - Merrylands West   12:16   12:26   12:36   12:46   12:56   13:06   12:46   12:56   13:06   12:46   12:56   13:06   12:46   12:56   13:06   12:46   12:56   13:06   13:01   13:09   13:0		-				-		-		
Smithfield T-Way Station, Bossley Park   12:16   12:26   12:36   12:46   12:56   13:06   13:06   13:09   13:19   13:20   13:30   13:10   13:		-				-		-		
Prairiewood T-Way Station, Bossley Park   -   12:29   12:39   12:49   -   12:59   -   13:09   13:19		-	12:16	12:26	12:36	-		-	12:56	13:06
Miller T-Way Station - Hinchinbrook   12:42   12:46   12:56   13:06   13:12   13:16   13:17   13:26   13:36   13:16   13:17   13:26   13:36   13:16   13:17   13:26   13:36   13:17   13:26   13:36   13:27   13:28   13:38   13:38   13:38   13:38   13:39		=	12:29	12:39	12:49	-	12:59	-	13:09	13:19
Nonday to Friday	Bonnyrigg T-Way Station, Bonnyrigg	12:33	12:36	12:46	12:56	13:03	13:06	13:08	13:16	13:26
Nonday to Friday	Miller T-Way Station - Hinchinbrook	12:42	12:46	12:56	13:06	13:12	13:16	13:17	13:26	13:36
Finlayson T-Way Station, South Wentworthwille   13:00   13:10   13:20   13:30   13:30   13:30   13:40   13:50   13:50   13:20   13:30   13:40   13:5	Liverpool Interchange, Liverpool	12:59	13:02	13:12	13:22	13:29	13:32	13:34	13:42	13:52
Finlayson T-Way Station, South Wentworthwille   - 13:08   13:08   13:08   13:08   13:04   13:05   13	Monday to Friday	£	Ł		Ł		Ł	Ł	Ł	
Canal T-Way Station   Merrylands West   -1   31:13   31:23   -1   31:33   31:34   31:55   31:57   14:04	Parramatta Station	-	13:00	13:10	-	13:20	13:30	13:39	13:40	13:50
Smithfield T-Way Station, Smithfield Formal Prairiewood T-Way Station, Bossley Park   13:46   13:46   13:46   13:46   13:45   13:40   14:40   14:42   14:42   14:42   14:42   14:42   14:42   14:42   14:42   14:42   14:44   14:54   14:45   14:55   14:50   14:50   14:50   14:50   15:50		-		13:18	-			13:46		13:59
Prairiewood T-Way Station, Bonsley Park   -		-			-					
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Canal T-Way Station - Merrylands West										
Smithfield T-Way Station, Smithfield         14:14         14:17         14:27         14:34         14:30         14:30         14:40         -         14:50         15:03         15:13         15:24         15:31         15:24         15:34         15:31         15:24         15:34         15:31         15:24         15:34         15:31         15:24         15:31         15:24         15:34         15:31         15:24         15:34         15:34         15:34         15:31         15:24         15:34         15:34         15:34         15:34         15:34         15:34         15:34         15:30         15:40         15:30         15:40         15:20         15:30         15:40         15:50         15:00         16:10         16:10         16:20         16:30         15:40         15:50         16:00         16:10         16:20         16:20         16:30         15:40         15:50         16:00         16:10         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:20         16:31         16:21         16:31         16:21         16:31										
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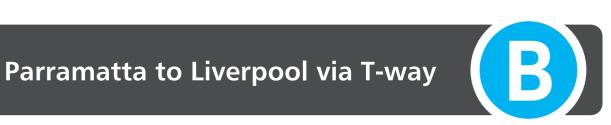
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Canal T-Way Station - Merrylands West	17:56	18:01	18:06	18:09	18:11	18:16	18:21	18:24	18:26
Smithfield T-Way Station, Smithfield	18:00	18:05	18:10	18:13	18:15	18:20	18:25	18:28	18:30
Prairiewood T-Way Station, Bossley Park	18:13	18:18	18:23	18:26	18:28	18:33	18:38	18:41	18:43
Bonnyrigg T-Way Station, Bonnyrigg	18:20	18:26	18:30	18:34	18:36	18:39	18:45	18:48	18:49
Miller T-Way Station - Hinchinbrook	18:31	-	18:41	-	-	18:50	-	-	19:00
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Finlayson T-Way Station, South Wentworthville	18:25	18:30	18:35	18:39	18:45	18:49	18:55	18:55	18:59
Canal T-Way Station - Merrylands West	18:31	18:36	18:41	18:45	18:51	18:55	19:01	19:01	19:05
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Smithfield T-Way Station, Smithfield	19:17	19:13	19:28	19:37	19:38	19:48	19:57	19:58	20:03
Prairiewood T-Way Station, Bossley Park	- 13.17	19:29	19:39	-	19:49	19:59	-	20:09	20:19
Bonnyrigg T-Way Station, Bonnyrigg	-	19:35	19:45	_	19:55	20:05	_	20:15	20:25
Miller T-Way Station - Hinchinbrook	-	19:44	19:54	-	20:04	20:14	-	20:24	
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Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg	19:59 20:08 20:14 20:17	20:00 20:09 20:15 20:18 20:29 20:35	20:15 20:24 20:30 20:33 20:44 20:50 20:59	20:19 20:28 20:34 20:37	20:30 20:39 20:45 20:48 20:59 21:05	20:39 20:48 20:54 20:57	20:45 20:54 21:00 21:03 21:14 21:20	21:00 21:09 21:15 21:18 21:29	21:15 21:24 21:30 21:33 21:44 21:50
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Monday to Friday	19:59 20:08 20:14 20:17	20:00 20:09 20:15 20:18 20:29 20:35 20:44	20:15 20:24 20:30 20:33 20:44 20:50 20:59	20:19 20:28 20:34 20:37	20:30 20:39 20:45 20:48 20:59 21:05 21:14	20:39 20:48 20:54 20:57	20:45 20:54 21:00 21:03 21:14 21:20 21:29	21:00 21:09 21:15 21:18 21:29 21:37	21:15 21:24 21:30 21:33 21:44 21:50 21:59 22:13
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Monday to Friday Day Restrictions	19:59 20:08 20:14 20:17 - -	20:00 20:09 20:15 20:18 20:29 20:35 20:44 20:58	20:15 20:24 20:30 20:33 20:44 20:50 20:59 21:13	20:19 20:28 20:34 20:37 - - -	20:30 20:39 20:45 20:48 20:59 21:05 21:14 21:28	20:39 20:48 20:54 20:57 - - -	20:45 20:54 21:00 21:03 21:14 21:20 21:29 21:43	21:00 21:09 21:15 21:18 21:29 21:37	21:15 21:24 21:30 21:33 21:44 21:50 21:59 22:13
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Monday to Friday Day Restrictions Parramatta Station	19:59 20:08 20:14 20:17 - - - 21:30	20:00 20:09 20:15 20:18 20:29 20:35 20:44 20:58	20:15 20:24 20:30 20:33 20:44 20:50 20:59 21:13	20:19 20:28 20:34 20:37 - - - - - - - - - 22:15	20:30 20:39 20:45 20:48 20:59 21:05 21:14 21:28	20:39 20:48 20:54 20:57 - - - - - - - - 23:20	20:45 20:54 21:00 21:03 21:14 21:20 21:29 21:43	21:00 21:09 21:15 21:18 21:29 21:37	21:15 21:24 21:30 21:33 21:44 21:50 21:59 22:13
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Monday to Friday Day Restrictions Parramatta Station Finlayson T-Way Station, South Wentworthville	19:59 20:08 20:14 20:17 - - - 21:30 21:39	20:00 20:09 20:15 20:18 20:29 20:35 20:44 20:58 21:45 21:53	20:15 20:24 20:30 20:33 20:44 20:50 20:59 21:13 22:00 22:08	20:19 20:28 20:34 20:37 - - - - - - - - - 22:15 22:23	20:30 20:39 20:45 20:48 20:59 21:05 21:14 21:28	20:39 20:48 20:54 20:57 - - - - - - - 23:20 23:28	20:45 20:54 21:00 21:03 21:14 21:20 21:29 21:43	21:00 21:09 21:15 21:18 21:29 21:37	21:15 21:24 21:30 21:33 21:44 21:50 21:59 22:13 & F F00:50 00:58
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Monday to Friday Day Restrictions Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West	19:59 20:08 20:14 20:17 - - 21:30 21:39 21:45	20:00 20:09 20:15 20:18 20:29 20:35 20:44 20:58 21:45 21:53 21:58	20:15 20:24 20:30 20:33 20:44 20:50 20:59 21:13 22:00 22:08 22:13	20:19 20:28 20:34 20:37 - - - - - - - - - 22:15 22:23 22:28	20:30 20:39 20:45 20:48 20:59 21:05 21:14 21:28 22:50 22:58 23:03	20:39 20:48 20:54 20:57 - - - - 23:20 23:28 23:33	20:45 20:54 21:00 21:03 21:14 21:20 21:29 21:43 & 23:50 23:58 00:03	21:00 21:09 21:15 21:18 21:29 21:37 	21:15 21:24 21:30 21:33 21:44 21:50 21:59 22:13 <b>6</b> <b>F</b> <b>F</b> 00:50 00:58 01:03
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Parramatta Station	07:45	08:00	08:15	08:30	08:45	09:00	09:15	09:30	09:45
Finlayson T-Way Station, South Wentworthville	07:52	08:07	08:22	08:37	08:52	09:08	09:23	09:38	09:53
Canal T-Way Station - Merrylands West	07:57	08:12	08:27	08:42	08:57	09:14	09:29	09:44	09:59
Smithfield T-Way Station, Smithfield	08:00	08:15	08:30	08:45	09:00	09:17	09:32	09:47	10:02
Prairiewood T-Way Station, Bossley Park	08:13	08:28	08:43	08:58	09:13	09:29	09:44	09:59	10:14
Bonnyrigg T-Way Station, Bonnyrigg	08:20	08:35	08:50	09:05	09:20	09:36	09:51	10:06	10:21
Miller T-Way Station - Hinchinbrook	08:30	08:45	09:00	09:15	09:30	09:46	10:01	10:16	10:31
Liverpool Interchange, Liverpool	08:45	09:00	09:15	09:30	09:45	10:02	10:17	10:32	10:47
Saturday	. E	<u></u> &	. <b>&amp;</b>	<u>.</u>	. <b>&amp;</b>	<u>.</u>	<u>.</u>	. b	E.
Parramatta Station	10:00	10:15	10:30	10:45	11:00	11:15	11:30	11:45	12:00
Finlayson T-Way Station, South Wentworthville	10:08	10:23	10:38	10:53	11:08	11:23	11:38	11:53	12:08
Canal T-Way Station - Merrylands West	10:14	10:29	10:44	10:59	11:14	11:29	11:44	11:59	12:14
Smithfield T-Way Station, Smithfield	10:17	10:32	10:48	11:03	11:18	11:33	11:48	12:03	12:18
Prairiewood T-Way Station, Bossley Park	10:29	10:44	11:00	11:15	11:30	11:45	12:00	12:15	12:30
Bonnyrigg T-Way Station, Bonnyrigg	10:36	10:51	11:07	11:22	11:37	11:52	12:07	12:22	12:37 12:47
Miller T-Way Station - Hinchinbrook	10:46 11:02	11:01	11:17	11:32	11:47	12:02	12:17	12:32 12:49	
Liverpool Interchange, Liverpool		11:17		11:49	12:04	12:19	12:34		13:04
Saturday	12.15	12.20	12.45	<u>ا</u>	12.15	12.20	12.45	14.00	14.15
Parramatta Station	12:15 12:23	12:30 12:38	12:45 12:53	13:00 13:08	13:15 13:23	13:30 13:38	13:45 13:53	14:00 14:08	14:15 14:23
Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West	12:29	12:44	12:59	13:14	13:29	13:44	13:59	14:14	14:29
Smithfield T-Way Station, Smithfield	12:23	12:44	13:03	13:14	13:33	13:48	14:03	14:14	14:23
Prairiewood T-Way Station, Bossley Park	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45
Bonnyrigg T-Way Station, Bonnyrigg	12:52	13:07	13:13	13:37	13:52	14:07	14:22	14:37	14:52
Miller T-Way Station - Hinchinbrook	13:02	13:17	13:32	13:47	14:02	14:17	14:32	14:47	15:02
Liverpool Interchange, Liverpool	13:19	13:34	13:49	14:04	14:19	14:34	14:49	15:02	15:17
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Parramatta Station	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield	14:30 14:38	14:45 14:53 14:59 15:03	15:00 15:08 15:14 15:18	15:15 15:23 15:29 15:33	15:30 15:38 15:44 15:48	15:45 15:53 15:59 16:03	16:00 16:08 16:14 16:18	16:15 16:23	16:30 16:37 16:42 16:46
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park	14:30 14:38 14:44 14:48 15:00	14:45 14:53 14:59 15:03 15:15	15:00 15:08 15:14 15:18 15:30	15:15 15:23 15:29 15:33 15:45	15:30 15:38 15:44 15:48 16:00	15:45 15:53 15:59 16:03 16:15	16:00 16:08 16:14 16:18 16:30	16:15 16:23 16:29 16:33 16:45	16:30 16:37 16:42 16:46 16:59
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg	14:30 14:38 14:44 14:48 15:00 15:07	14:45 14:53 14:59 15:03 15:15 15:22	15:00 15:08 15:14 15:18 15:30 15:37	15:15 15:23 15:29 15:33 15:45 15:52	15:30 15:38 15:44 15:48 16:00 16:07	15:45 15:53 15:59 16:03 16:15 16:22	16:00 16:08 16:14 16:18 16:30 16:37	16:15 16:23 16:29 16:33 16:45 16:52	16:30 16:37 16:42 16:46 16:59 17:06
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Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg	14:30 14:38 14:44 14:48 15:00 15:07	14:45 14:53 14:59 15:03 15:15 15:22	15:00 15:08 15:14 15:18 15:30 15:37	15:15 15:23 15:29 15:33 15:45 15:52	15:30 15:38 15:44 15:48 16:00 16:07	15:45 15:53 15:59 16:03 16:15 16:22	16:00 16:08 16:14 16:18 16:30 16:37	16:15 16:23 16:29 16:33 16:45 16:52	16:30 16:37 16:42 16:46 16:59 17:06
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday	14:30 14:38 14:44 14:48 15:00 15:07 15:17 15:32	14:45 14:53 14:59 15:03 15:15 15:22 15:32 15:47	15:00 15:08 15:14 15:18 15:30 15:37 15:47 16:02	15:15 15:23 15:29 15:33 15:45 15:52 16:02 16:17	15:30 15:38 15:44 15:48 16:00 16:07 16:17 16:32	15:45 15:53 15:59 16:03 16:15 16:22 16:32 16:47	16:00 16:08 16:14 16:18 16:30 16:37 16:47 17:02	16:15 16:23 16:29 16:33 16:45 16:52 17:02 17:17	16:30 16:37 16:42 16:46 16:59 17:06 17:15 17:32
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station	14:30 14:38 14:44 14:48 15:00 15:07 15:17 15:32	14:45 14:53 14:59 15:03 15:15 15:22 15:32 15:47	15:00 15:08 15:14 15:18 15:30 15:37 15:47 16:02	15:15 15:23 15:29 15:33 15:45 15:52 16:02 16:17	15:30 15:38 15:44 15:48 16:00 16:07 16:17 16:32	15:45 15:53 15:59 16:03 16:15 16:22 16:32 16:47	16:00 16:08 16:14 16:18 16:30 16:37 16:47 17:02	16:15 16:23 16:29 16:33 16:45 16:52 17:02 17:17	16:30 16:37 16:42 16:46 16:59 17:06 17:15 17:32
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station Finlayson T-Way Station, South Wentworthville	14:30 14:38 14:44 14:48 15:00 15:07 15:17 15:32	14:45 14:53 14:59 15:03 15:15 15:22 15:32 15:47 & 17:00 17:08	15:00 15:08 15:14 15:18 15:30 15:37 15:47 16:02	15:15 15:23 15:29 15:33 15:45 15:52 16:02 16:17	15:30 15:38 15:44 15:48 16:00 16:07 16:17 16:32	15:45 15:53 15:59 16:03 16:15 16:22 16:32 16:47 & 18:00 18:08	16:00 16:08 16:14 16:18 16:30 16:37 16:47 17:02	16:15 16:23 16:29 16:33 16:45 16:52 17:02 17:17	16:30 16:37 16:42 16:46 16:59 17:06 17:15 17:32
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Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg	14:30 14:38 14:44 14:48 15:00 15:07 15:17 15:32 & 16:45 16:53 16:59 17:03 17:15 17:22	14:45 14:53 14:59 15:03 15:15 15:22 15:32 15:47 & 17:00 17:08 17:14 17:18 17:30 17:37	15:00 15:08 15:14 15:18 15:30 15:37 15:47 16:02 & 17:15 17:23 17:29 17:33 17:45 17:52	15:15 15:23 15:29 15:33 15:45 15:52 16:02 16:17 & 17:30 17:38 17:44 17:48 18:00 18:07	15:30 15:38 15:44 15:48 16:00 16:07 16:17 16:32	15:45 15:53 15:59 16:03 16:15 16:22 16:32 16:47 & 18:00 18:08 18:13 18:17 18:29 18:35	16:00 16:08 16:14 16:18 16:30 16:37 16:47 17:02 & 18:15 18:23 18:28 18:32 18:44 18:50	16:15 16:23 16:29 16:33 16:45 16:52 17:02 17:17 & 18:30 18:38 18:43 18:47 18:59 19:05	16:30 16:37 16:42 16:46 16:59 17:06 17:15 17:32 & 18:45 18:53 18:58 19:02 19:14 19:20
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Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West	14:30 14:38 14:44 14:48 15:00 15:07 15:17 15:32 6 16:45 16:53 16:59 17:03 17:15 17:22 17:32 17:47 8 19:00 19:08 19:13	14:45 14:59 15:03 15:15 15:22 15:32 15:47  4 17:00 17:08 17:14 17:18 17:30 17:37 17:47 18:02  4 19:15 19:23 19:28	15:00 15:08 15:14 15:18 15:30 15:37 15:47 16:02 17:15 17:23 17:29 17:33 17:45 17:52 18:02 18:17	15:15 15:23 15:29 15:33 15:45 15:52 16:02 16:17 17:30 17:38 17:44 17:48 18:00 18:07 18:17 18:32	15:30 15:38 15:44 15:48 16:00 16:07 16:17 16:32 17:45 17:53 17:59 18:03 18:15 18:22 18:32 18:47	15:45 15:53 15:59 16:03 16:15 16:22 16:32 16:47 18:00 18:08 18:13 18:17 18:29 18:35 18:45 19:00	16:00 16:08 16:14 16:18 16:30 16:37 16:47 17:02 8 18:15 18:23 18:28 18:32 18:44 18:50 19:00 19:15	16:15 16:23 16:29 16:33 16:45 16:52 17:02 17:17 8 18:30 18:38 18:47 18:59 19:05 19:15 19:30	16:30 16:37 16:42 16:46 16:59 17:06 17:15 17:32 & 18:45 18:53 18:58 19:02 19:14 19:20 19:30 19:45 & 22:18 22:25 22:30
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Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park	14:30 14:38 14:44 14:48 15:00 15:07 15:17 15:32 16:45 16:53 16:59 17:03 17:15 17:22 17:32 17:47 19:00 19:08 19:13 19:17 19:29	14:45 14:59 15:03 15:15 15:22 15:32 15:47	15:00 15:08 15:14 15:18 15:30 15:37 15:47 16:02 17:15 17:23 17:29 17:33 17:45 17:52 18:02 18:17 19:30 19:38 19:43 19:47 19:59	15:15 15:23 15:29 15:33 15:45 15:52 16:02 16:17 17:30 17:38 17:44 17:48 18:00 18:07 18:17 18:32	15:30 15:38 15:44 15:48 16:00 16:07 16:17 16:32 17:45 17:53 17:59 18:03 18:15 18:22 18:32 18:47 20:20 20:28 20:33 20:37 20:49	15:45 15:53 15:59 16:03 16:15 16:22 16:32 16:47 18:00 18:08 18:13 18:17 18:29 18:35 18:45 19:00 20:50 20:58 21:03 21:07 21:19	16:00 16:08 16:14 16:18 16:30 16:37 16:47 17:02 8 18:15 18:23 18:28 18:32 18:44 18:50 19:00 19:15	16:15 16:23 16:29 16:33 16:45 16:52 17:02 17:17 8 18:30 18:38 18:47 18:59 19:05 19:15 19:30	16:30 16:37 16:42 16:46 16:59 17:06 17:15 17:32 & 18:45 18:53 18:58 19:02 19:14 19:20 19:30 19:45 & 22:18 22:25 22:30
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Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Saturday Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park	14:30 14:38 14:44 14:48 15:00 15:07 15:17 15:32 16:45 16:53 16:59 17:03 17:15 17:22 17:32 17:47 8 19:00 19:08 19:13 19:17 19:29 19:35	14:45 14:53 14:59 15:03 15:15 15:22 15:32 15:47  & 17:00 17:08 17:14 17:18 17:30 17:37 17:47 18:02  & 19:15 19:23 19:28 19:28 19:32 19:44 19:50	15:00 15:08 15:14 15:18 15:30 15:37 15:47 16:02 17:15 17:23 17:29 17:33 17:45 17:52 18:02 18:17 19:30 19:38 19:43 19:47 19:59 20:05	15:15 15:23 15:29 15:33 15:45 15:52 16:02 16:17 17:30 17:38 17:44 17:48 18:00 18:07 18:17 18:32	15:30 15:38 15:44 15:48 16:00 16:07 16:17 16:32 17:45 17:53 17:59 18:03 18:15 18:22 18:32 18:47 20:20 20:28 20:33 20:37 20:49 20:55	15:45 15:53 15:59 16:03 16:15 16:22 16:32 16:47 18:00 18:08 18:13 18:17 18:29 18:35 18:45 19:00 20:58 21:03 21:07 21:19 21:25	16:00 16:08 16:14 16:18 16:30 16:37 16:47 17:02 18:15 18:23 18:28 18:28 18:32 18:44 18:50 19:00 19:15 21:20 21:27 21:32 21:36 21:47 21:53	16:15 16:23 16:29 16:33 16:45 16:52 17:02 17:17 18:30 18:38 18:43 18:47 18:59 19:05 19:15 19:30 21:57 22:02 22:06 22:17 22:23	16:30 16:37 16:42 16:46 16:59 17:06 17:15 17:32 & 18:45 18:53 18:58 19:02 19:14 19:20 19:30 19:45 & 22:18 22:25 22:30 22:34 22:45 22:51





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Finlayson T-Way Station, South Wentworthville	22:55	23:25	23:55	00:25	01:25				
Canal T-Way Station - Merrylands West	23:00	23:30	00:00	00:30	01:30				
Smithfield T-Way Station, Smithfield	23:03	23:33	00:03	00:33					
Prairiewood T-Way Station, Bossley Park	23:14	23:44	00:14	00:44	01:44				
Bonnyrigg T-Way Station, Bonnyrigg	23:20	23:50	00:20	00:50	01:50				
Miller T-Way Station - Hinchinbrook	23:29	23:59	00:29	00:59	01:59				
Liverpool Interchange, Liverpool	23:41	00:11	00:41	01:11	02:11				
Sunday & Public Holidays	. E	Ł	. E	£	F	. E	. B	. E	. E
Parramatta Station	-	-	06:00	06:15	06:30	06:45	07:00	07:15	07:30
Finlayson T-Way Station, South Wentworthville	-	-	06:06	06:21	06:36	06:51	07:06	07:21	07:36
Canal T-Way Station - Merrylands West	-	-	06:10	06:25	06:40	06:55	07:10	07:26	07:41
Smithfield T-Way Station, Smithfield	-	-	06:14	06:29	06:44	06:59	07:14	07:30	07:45
Prairiewood T-Way Station, Bossley Park	-	-	06:27	06:42	06:57	07:12	07:27	07:43	07:58
Bonnyrigg T-Way Station, Bonnyrigg	05:29	06:04	06:34	06:49	07:04	07:19	07:34	07:50	08:05
Miller T-Way Station - Hinchinbrook	05:38	06:13	06:43	06:58	07:13	07:28	07:43	07:59	08:14
Liverpool Interchange, Liverpool	05:50	06:25	06:55	07:10	07:25	07:41	07:56	08:13	08:28
Sunday & Public Holidays	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł
Parramatta Station	07:45	08:00	08:15	08:30	08:45	09:00	09:15	09:30	09:45
Finlayson T-Way Station, South Wentworthville	07:51	08:06	08:21	08:36	08:51	09:07	09:22	09:37	09:52
Canal T-Way Station - Merrylands West	07:56	08:11	08:26	08:41	08:56	09:12	09:27	09:42	09:57
Smithfield T-Way Station, Smithfield	08:00	08:15	08:30	08:45	09:00	09:16	09:31	09:46	10:01
Prairiewood T-Way Station, Bossley Park	08:13	08:28	08:43	08:58	09:13	09:29	09:44	09:59	10:14
Bonnyrigg T-Way Station, Bonnyrigg	08:20	08:35	08:50	09:05	09:20	09:36	09:51	10:06	10:21
Miller T-Way Station - Hinchinbrook	08:29	08:44	08:59	09:14	09:29	09:45	10:00	10:15	10:30
Liverpool Interchange, Liverpool	08:45	09:00	09:15	09:30	09:45	10:02	10:17	10:32	10:47
Sunday & Public Holidays	Ł	Ł	£	Ł	Ł	£	F	Ł	Ł
Sunday & Public Holidays	10:00	<u>ا</u>	10·30	ક 10:45	11:00	<u>ا</u> 11·15	11:30	<u></u> ይ 11∙45	12:00
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Parramatta Station Finlayson T-Way Station, South Wentworthville	10:00 10:07	10:15 10:22	10:30 10:37	10:45 10:52	11:00 11:07	11:15 11:22	11:30 11:37	11:45 11:52	12:00 12:07
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West	10:00 10:07 10:12	10:15 10:22 10:27	10:30 10:37 10:42	10:45 10:52 10:57	11:00 11:07 11:12	11:15 11:22 11:27	11:30 11:37 11:42	11:45 11:52 11:57	12:00 12:07 12:12
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield	10:00 10:07 10:12 10:16	10:15 10:22 10:27 10:31	10:30 10:37 10:42 10:46	10:45 10:52 10:57 11:01	11:00 11:07 11:12 11:16	11:15 11:22 11:27 11:31	11:30 11:37 11:42 11:46	11:45 11:52 11:57 12:01	12:00 12:07 12:12 12:16
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park	10:00 10:07 10:12 10:16 10:29	10:15 10:22 10:27 10:31 10:44	10:30 10:37 10:42 10:46 11:00	10:45 10:52 10:57 11:01 11:15	11:00 11:07 11:12 11:16 11:30	11:15 11:22 11:27 11:31 11:45	11:30 11:37 11:42 11:46 12:00	11:45 11:52 11:57 12:01 12:15	12:00 12:07 12:12 12:16 12:30
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg	10:00 10:07 10:12 10:16 10:29 10:36	10:15 10:22 10:27 10:31 10:44 10:51	10:30 10:37 10:42 10:46 11:00 11:07	10:45 10:52 10:57 11:01 11:15 11:22	11:00 11:07 11:12 11:16 11:30 11:37	11:15 11:22 11:27 11:31 11:45 11:52	11:30 11:37 11:42 11:46 12:00 12:07	11:45 11:52 11:57 12:01 12:15 12:22	12:00 12:07 12:12 12:16 12:30 12:37
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook	10:00 10:07 10:12 10:16 10:29 10:36 10:45	10:15 10:22 10:27 10:31 10:44 10:51 11:00	10:30 10:37 10:42 10:46 11:00 11:07 11:16	10:45 10:52 10:57 11:01 11:15 11:22 11:31	11:00 11:07 11:12 11:16 11:30 11:37 11:46	11:15 11:22 11:27 11:31 11:45 11:52 12:01	11:30 11:37 11:42 11:46 12:00 12:07 12:16	11:45 11:52 11:57 12:01 12:15 12:22 12:31	12:00 12:07 12:12 12:16 12:30 12:37 12:46
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Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bonsyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station	10:00 10:07 10:12 10:16 10:29 10:36 10:45 11:02 12:15 12:22 12:27 12:31 12:45 12:52 13:01 13:19	10:15 10:22 10:27 10:31 10:44 10:51 11:00 11:17 & 12:30 12:37 12:42 12:46 13:00 13:07 13:16 13:34	10:30 10:37 10:42 10:46 11:00 11:07 11:16 11:34 12:45 12:52 12:57 13:01 13:15 13:22 13:31 13:49	10:45 10:52 10:57 11:01 11:15 11:22 11:31 11:49 & 13:00 13:07 13:12 13:16 13:30 13:37 13:46 14:04	11:00 11:07 11:12 11:16 11:30 11:37 11:46 12:04 & 13:15 13:22 13:27 13:31 13:45 13:52 14:01 14:19	11:15 11:22 11:27 11:31 11:45 11:52 12:01 12:19 & 13:30 13:37 13:42 13:46 14:00 14:07 14:16 14:34	11:30 11:37 11:42 11:46 12:00 12:07 12:16 12:34 (5) 13:45 13:52 13:57 14:01 14:15 14:22 14:31 14:49	11:45 11:52 11:57 12:01 12:15 12:22 12:31 12:49 4:00 14:07 14:12 14:16 14:29 14:36 14:45 15:02	12:00 12:07 12:12 12:16 12:30 12:37 12:46 13:04 & 14:15 14:22 14:27 14:31 14:44 14:51 15:00 15:17
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Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West	10:00 10:07 10:12 10:16 10:29 10:36 10:45 11:02 \$\frac{1}{2}\$ 12:15 12:22 12:27 12:31 12:45 12:52 13:01 13:19 \$\frac{1}{4}\$ 14:30 14:37 14:42	10:15 10:22 10:27 10:31 10:44 10:51 11:00 11:17 & 12:30 12:37 12:42 12:46 13:00 13:07 13:16 13:34 & 14:45 14:52 14:57	10:30 10:37 10:42 10:46 11:00 11:07 11:16 11:34 12:45 12:52 12:57 13:01 13:15 13:22 13:31 13:49	10:45 10:52 10:57 11:01 11:15 11:22 11:31 11:49 & 13:00 13:07 13:12 13:16 13:30 13:37 13:46 14:04 & 15:15 15:22	11:00 11:07 11:12 11:16 11:30 11:37 11:46 12:04 (a) 13:15 13:22 13:27 13:31 13:45 13:52 14:01 14:19 (a) 15:30 15:37 15:42	11:15 11:22 11:27 11:31 11:45 11:52 12:01 12:19 13:30 13:37 13:42 13:46 14:00 14:07 14:16 14:34	11:30 11:37 11:42 11:46 12:00 12:07 12:16 12:34 13:45 13:52 13:57 14:01 14:15 14:22 14:31 14:49	11:45 11:52 11:57 12:01 12:15 12:22 12:31 12:49 4:00 14:07 14:12 14:16 14:29 14:36 14:45 15:02	12:00 12:07 12:12 12:16 12:30 12:37 12:46 13:04 & 14:15 14:22 14:27 14:31 14:44 14:51 15:00 15:17 & 16:30 16:37 16:42
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield	10:00 10:07 10:12 10:16 10:29 10:36 10:45 11:02 \$\frac{1}{2}\$ 12:15 12:22 12:27 12:31 12:45 12:52 13:01 13:19 \$\frac{1}{4}\$ 14:30 14:37 14:42 14:46	10:15 10:22 10:27 10:31 10:44 10:51 11:00 11:17 & 12:30 12:37 12:42 12:46 13:00 13:07 13:16 13:34 & 14:45 14:52 14:57 15:01	10:30 10:37 10:42 10:46 11:00 11:07 11:16 11:34 12:45 12:52 12:57 13:01 13:15 13:22 13:31 13:49	10:45 10:52 10:57 11:01 11:15 11:22 11:31 11:49 & 13:00 13:07 13:12 13:16 13:30 13:37 13:46 14:04 & 15:15 15:22 15:27 15:31	11:00 11:07 11:12 11:16 11:30 11:37 11:46 12:04 (a) 13:15 13:22 13:27 13:31 13:45 13:52 14:01 14:19 (a) 15:30 15:37 15:42 15:46	11:15 11:22 11:27 11:31 11:45 11:52 12:01 12:19 & 13:30 13:37 13:42 13:46 14:00 14:07 14:16 14:34	11:30 11:37 11:42 11:46 12:00 12:07 12:16 12:34 13:45 13:52 13:57 14:01 14:15 14:22 14:31 14:49	11:45 11:52 11:57 12:01 12:15 12:22 12:31 12:49 14:00 14:07 14:12 14:16 14:29 14:36 14:45 15:02	12:00 12:07 12:12 12:16 12:30 12:37 12:46 13:04 & 14:15 14:22 14:27 14:31 14:44 14:51 15:00 15:17 & 16:30 16:37 16:42 16:46
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park	10:00 10:07 10:12 10:16 10:29 10:36 10:45 11:02 \$\frac{1}{2}\$ 12:15 12:22 12:27 12:31 12:45 12:52 13:01 13:19 \$\frac{1}{4}\$ 14:30 14:37 14:42 14:46 14:59	10:15 10:22 10:27 10:31 10:44 10:51 11:00 11:17 & 12:30 12:37 12:42 12:46 13:00 13:07 13:16 13:34 & 14:45 14:52 14:57 15:01 15:14	10:30 10:37 10:42 10:46 11:00 11:07 11:16 11:34 12:45 12:52 12:57 13:01 13:15 13:22 13:31 13:49 15:00 15:07 15:12 15:16 15:29	10:45 10:52 10:57 11:01 11:15 11:22 11:31 11:49 & 13:00 13:07 13:12 13:16 13:30 13:37 13:46 14:04 & 15:15 15:22 15:27 15:31	11:00 11:07 11:12 11:16 11:30 11:37 11:46 12:04 (a) 13:15 13:22 13:27 13:31 13:45 13:52 14:01 14:19 (a) 15:30 15:37 15:42 15:46 15:59	11:15 11:22 11:27 11:31 11:45 11:52 12:01 12:19 & 13:30 13:37 13:42 13:46 14:00 14:07 14:16 14:34	11:30 11:37 11:42 11:46 12:00 12:07 12:16 12:34 13:45 13:52 13:57 14:01 14:15 14:22 14:31 14:49	11:45 11:52 11:57 12:01 12:15 12:22 12:31 12:49 4:00 14:07 14:12 14:16 14:29 14:36 14:45 15:02 6:15 16:22 16:27 16:31 16:44	12:00 12:07 12:12 12:16 12:30 12:37 12:46 13:04 & 14:15 14:22 14:27 14:31 14:44 14:51 15:00 15:17 & 16:30 16:37 16:42 16:46 16:59
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg	10:00 10:07 10:12 10:16 10:29 10:36 10:45 11:02 12:15 12:22 12:27 12:31 12:45 12:52 13:01 13:19 8 14:30 14:37 14:42 14:46 14:59 15:06	10:15 10:22 10:27 10:31 10:44 10:51 11:00 11:17 & 12:30 12:37 12:42 12:46 13:00 13:07 13:16 13:34 & 14:45 14:52 14:57 15:01 15:14 15:21	10:30 10:37 10:42 10:46 11:00 11:07 11:16 11:34 12:45 12:52 12:57 13:01 13:15 13:22 13:31 13:49 15:00 15:07 15:12 15:16 15:29 15:36	10:45 10:52 10:57 11:01 11:15 11:22 11:31 11:49 & 13:00 13:07 13:12 13:16 13:30 13:37 13:46 14:04 & 15:15 15:22 15:27 15:31 15:44 15:51	11:00 11:07 11:12 11:16 11:30 11:37 11:46 12:04 (a) 13:15 13:22 13:27 13:31 13:45 13:52 14:01 14:19 (a) 15:30 15:37 15:42 15:46 15:59 16:06	11:15 11:22 11:27 11:31 11:45 11:52 12:01 12:19 13:30 13:37 13:42 13:46 14:00 14:07 14:16 14:34 15:45 15:52 15:57 16:01 16:14 16:21	11:30 11:37 11:42 11:46 12:00 12:07 12:16 12:34 13:45 13:52 13:57 14:01 14:15 14:22 14:31 14:49 (a) 16:00 16:07 16:12 16:16 16:29 16:36	11:45 11:52 11:57 12:01 12:15 12:22 12:31 12:49 14:00 14:07 14:12 14:16 14:29 14:36 14:45 15:02 16:15 16:22 16:27 16:31 16:44 16:51	12:00 12:07 12:12 12:16 12:30 12:37 12:46 13:04 & 14:15 14:22 14:27 14:31 14:44 14:51 15:00 15:17 & 16:30 16:37 16:42 16:46 16:59 17:06
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook	10:00 10:07 10:12 10:16 10:29 10:36 10:45 11:02 12:15 12:22 12:27 12:31 12:45 12:52 13:01 13:19 8 14:30 14:37 14:46 14:59 15:06 15:15	10:15 10:22 10:27 10:31 10:44 10:51 11:00 11:17 12:30 12:37 12:42 12:46 13:00 13:07 13:16 13:34 14:45 14:52 14:57 15:01 15:14 15:21	10:30 10:37 10:42 10:46 11:00 11:07 11:16 11:34 12:45 12:52 12:57 13:01 13:15 13:22 13:31 13:49 15:00 15:07 15:12 15:16 15:29 15:36 15:45	10:45 10:52 10:57 11:01 11:15 11:22 11:31 11:49 & 13:00 13:07 13:12 13:16 13:30 13:37 13:46 14:04 & 15:15 15:22 15:27 15:31 15:44 15:51 16:00	11:00 11:07 11:12 11:16 11:30 11:37 11:46 12:04 & 13:15 13:22 13:27 13:31 13:45 13:52 14:01 14:19	11:15 11:22 11:27 11:31 11:45 11:52 12:01 12:19 13:30 13:37 13:42 13:46 14:00 14:07 14:16 14:34 15:45 15:52 15:57 16:01 16:14 16:21 16:30	11:30 11:37 11:42 11:46 12:00 12:07 12:16 12:34 13:45 13:52 13:57 14:01 14:15 14:22 14:31 14:49 16:00 16:07 16:12 16:16 16:29 16:36 16:45	11:45 11:52 11:57 12:01 12:15 12:22 12:31 12:49 14:00 14:07 14:12 14:16 14:29 14:36 14:45 15:02 16:15 16:22 16:27 16:31 16:44 16:51 17:00	12:00 12:07 12:12 12:16 12:30 12:37 12:46 13:04 & 14:15 14:22 14:27 14:31 14:44 14:51 15:00 15:17 & 16:30 16:37 16:42 16:46 16:59 17:06 17:15
Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg Miller T-Way Station - Hinchinbrook Liverpool Interchange, Liverpool  Sunday & Public Holidays Parramatta Station Finlayson T-Way Station, South Wentworthville Canal T-Way Station - Merrylands West Smithfield T-Way Station, Smithfield Prairiewood T-Way Station, Bossley Park Bonnyrigg T-Way Station, Bonnyrigg	10:00 10:07 10:12 10:16 10:29 10:36 10:45 11:02 12:15 12:22 12:27 12:31 12:45 12:52 13:01 13:19 8 14:30 14:37 14:42 14:46 14:59 15:06	10:15 10:22 10:27 10:31 10:44 10:51 11:00 11:17 & 12:30 12:37 12:42 12:46 13:00 13:07 13:16 13:34 & 14:45 14:52 14:57 15:01 15:14 15:21	10:30 10:37 10:42 10:46 11:00 11:07 11:16 11:34 12:45 12:52 12:57 13:01 13:15 13:22 13:31 13:49 15:00 15:07 15:12 15:16 15:29 15:36	10:45 10:52 10:57 11:01 11:15 11:22 11:31 11:49 & 13:00 13:07 13:12 13:16 13:30 13:37 13:46 14:04 & 15:15 15:22 15:27 15:31 15:44 15:51	11:00 11:07 11:12 11:16 11:30 11:37 11:46 12:04 (a) 13:15 13:22 13:27 13:31 13:45 13:52 14:01 14:19 (a) 15:30 15:37 15:42 15:46 15:59 16:06	11:15 11:22 11:27 11:31 11:45 11:52 12:01 12:19 13:30 13:37 13:42 13:46 14:00 14:07 14:16 14:34 15:45 15:52 15:57 16:01 16:14 16:21	11:30 11:37 11:42 11:46 12:00 12:07 12:16 12:34 13:45 13:52 13:57 14:01 14:15 14:22 14:31 14:49 (a) 16:00 16:07 16:12 16:16 16:29 16:36	11:45 11:52 11:57 12:01 12:15 12:22 12:31 12:49 14:00 14:07 14:12 14:16 14:29 14:36 14:45 15:02 16:15 16:22 16:27 16:31 16:44 16:51	12:00 12:07 12:12 12:16 12:30 12:37 12:46 13:04 & 14:15 14:22 14:27 14:31 14:44 14:51 15:00 15:17 & 16:30 16:37 16:42 16:46 16:59 17:06



# T80 Parramatta to Liverpool via T-way



Sunday & Public Holidays	į. E	į.	Ł.	Ł.	į.	į.	į. ė.	Ł	<u>&amp;</u>
Parramatta Station	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45
Finlayson T-Way Station, South Wentworthville	16:52	17:07	17:22	17:37	17:52	18:07	18:22	18:37	18:52
Canal T-Way Station - Merrylands West	16:57	17:12	17:27	17:42	17:57	18:12	18:27	18:42	18:57
Smithfield T-Way Station, Smithfield	17:01	17:16	17:31	17:46	18:01	18:16	18:31	18:46	19:01
Prairiewood T-Way Station, Bossley Park	17:14	17:29	17:44	17:59	18:14	18:28	18:43	18:58	19:13
Bonnyrigg T-Way Station, Bonnyrigg	17:21	17:36	17:51	18:06	18:21	18:35	18:50	19:05	19:20
Miller T-Way Station - Hinchinbrook	17:30	17:45	18:00	18:15	18:30	18:44	18:59	19:14	19:29
Liverpool Interchange, Liverpool	17:47	18:02	18:17	18:32	18:47	19:00	19:15	19:30	19:45
Sunday & Public Holidays	<u>L</u>	Ł	Ł	Ł	<u>L</u>	Ł.	<u>b</u>	Ł.	<u>5.</u>
Parramatta Station	19:00	19:15	19:30	19:50	20:20	20:50	21:20	21:50	22:18
Finlayson T-Way Station, South Wentworthville	19:07	19:22	19:37	19:57	20:27	20:57	21:27	21:57	22:25
Canal T-Way Station - Merrylands West	19:12	19:27	19:42	20:02	20:32	21:02	21:31	22:01	22:29
Smithfield T-Way Station, Smithfield	19:16	19:31	19:46	20:06	20:36	21:06	21:35	22:05	22:33
Prairiewood T-Way Station, Bossley Park	19:28	19:43	19:58	20:18	20:48	21:18	21:47	22:17	22:45
Bonnyrigg T-Way Station, Bonnyrigg	19:35	19:50	20:05	20:25	20:55	21:25	21:54	22:24	22:52
Miller T-Way Station - Hinchinbrook	19:44	19:59	20:14	20:34	21:04	21:34	22:03	22:33	23:01
Liverpool Interchange, Liverpool	20:00	20:15	20:30	20:50	21:20	21:50	22:15	22:45	23:13
Sunday & Public Holidays	Ł	Ł	Ł	Ł					
Parramatta Station	22:48	23:18	23:48	00:18					
Finlayson T-Way Station, South Wentworthville	22:54	23:24	23:54	00:24					
Canal T-Way Station - Merrylands West	22:58	23:28	23:58	00:28					
Smithfield T-Way Station, Smithfield	23:02	23:32	00:02	00:32					
Prairiewood T-Way Station, Bossley Park	23:14	23:44	00:14	00:44					
Bonnyrigg T-Way Station, Bonnyrigg	23:21	23:51	00:21	00:51					
Miller T-Way Station - Hinchinbrook	23:30	00:00	00:30	01:00					
Liverpool Interchange, Liverpool	23:41	00:11	00:41	01:11					





Monday to Friday	Ł		Ł		Ł	Ł	Ł	Ł	
Liverpool Interchange, Liverpool	-	-	04:45	05:00	05:15	-	05:30		05:40
Miller T-Way Station - Hinchinbrook	04:25	04:40	04:58	05:13	05:28	05:36	05:43	-	05:53
Bonnyrigg T-Way Station, Bonnyrigg	04:34	04:49	05:07	05:22	05:37	05:45	05:52	05:57	06:02
Prairiewood T-Way Station, Bossley Park	04:40	04:55	05:13	05:28	05:43	05:51	05:58	06:03	06:08
Smithfield T-Way Station, Smithfield	04:52	05:07	05:26	05:41	05:56	06:04	06:11	06:17	06:21
Canal T-Way Station - Merrylands West	04:56	05:11	05:30	05:45	06:00	06:08	06:15	06:21	06:25
Finlayson T-Way Station, South Wentworthville	05:01	05:16	05:35	05:50	06:05	06:13	06:20	06:26	06:30
Parramatta Station	05:08	05:23	05:45	06:00	06:15	06:23	06:30	06:36	06:40
Monday to Friday	ું	ક	. E		<u></u>	ઠ		હ	<u>.</u>
Liverpool Interchange, Liverpool	-	05:50	-	06:00	-	06:10	-	06:20	-
Miller T-Way Station - Hinchinbrook	-	06:03	06:17	06:13	-	06:23	-	06:33	06.49
Bonnyrigg T-Way Station, Bonnyrigg	06:07 06:13	06:13 06:19	06:17 06:23	06:23 06:29	06:28 06:34	06:33 06:39	06:38 06:44	06:43 06:49	06:48 06:54
Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield	06:13	06:33	06:37	06:43	06:48	06:53	06:58	07:03	07:08
Canal T-Way Station - Merrylands West	06:32	06:37	06:42	06:43	06:53	06:58	07:03	07:03	07:08
Finlayson T-Way Station, South Wentworthville	06:37	06:42	06:47	06:52	06:58	07:03	07:09	07:13	07:19
Parramatta Station	06:47	06:52	06:57	07:02	07:08	07:13	07:19	07:13	07:19
	E.	<u>&amp;</u>	<u>s</u>	<u></u> &	<u></u>	07110	07110	<u>&amp;</u>	<u></u> &
Monday to Friday Liverpool Interchange, Liverpool		06:30		06:40		-	06:50	. 6	
Miller T-Way Station - Hinchinbrook	06:40	06:43	_	06:54	06:56	_	07:04	_	07:11
Bonnyrigg T-Way Station, Bonnyrigg	06:52	06:53	06:59	07:06	07:08	07:09	07:16	07:19	07:11
Prairiewood T-Way Station, Bossley Park	06:58	06:59	07:05	07:12	07:14	07:15	07:22	07:25	07:29
Smithfield T-Way Station, Smithfield	07:12	07:13	07:19	07:26	07:28	07:29	07:36	07:40	07:43
Canal T-Way Station - Merrylands West	07:17	07:18	07:24	07:31	07:32	07:34	07:41	07:45	07:48
Finlayson T-Way Station, South Wentworthville	07:23	07:23	07:30	07:37	07:39	07:40	07:47	07:52	07:54
Parramatta Station	07:33	07:33	07:40	07:47	07:49	07:53	07:57	08:05	08:07
Tarramatta Station	07.55	07.00	07110	07.17	07115	07.00			
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Miller T-Way Station - Hinchinbrook       12:15       -       12:25       12:35       -       12:45       12:55       -       1         Bonnyrigg T-Way Station, Bonnyrigg       12:24       -       12:34       12:44       -       12:54       13:04       -       1         Prairiewood T-Way Station, Bossley Park       12:30       -       12:40       12:50       -       13:00       13:10       -       1         Smithfield T-Way Station, Smithfield       12:43       12:50       12:53       13:03       13:09       13:13       13:23       13:28       1         Canal T-Way Station - Merrylands West       12:47       12:54       12:57       13:07       13:13       13:13       13:27       13:32       1         Finlayson T-Way Station, South Wentworthville Parramatta Station       13:04       13:11       13:14       13:24       13:30       13:33       13:33       13:33       13:33       13:33       13:34       13:44       13:49       1         Monday to Friday       8	2:50 3:05 3:14 3:20 3:33 3:37 3:43 3:54 4:00 4:17 4:27 4:33 4:47 4:52 4:58 5:08
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Miller T-Way Station - Hinchinbrook       12:15       -       12:25       12:35       -       12:45       12:55       -       1         Bonnyrigg T-Way Station, Bonnyrigg       12:24       -       12:34       12:44       -       12:54       13:04       -       1         Prairiewood T-Way Station, Sossley Park       12:30       -       12:40       12:50       -       13:00       13:10       -       1         Smithfield T-Way Station, Smithfield       12:43       12:50       12:53       13:03       13:09       13:13       13:23       13:28       1         Canal T-Way Station - Merrylands West       12:47       12:54       12:57       13:07       13:13       13:13       13:27       13:22       1         Finlayson T-Way Station, South Wentworthville Parramatta Station       13:04       13:11       13:14       13:24       13:30       13:13       13:13       13:27       13:32       1         Monday to Friday       8	2:50 3:05 3:14 3:20 3:33 3:37 3:43 3:54 4:00 4:17 4:27 4:33 4:47 4:52 4:58 5:08
Miller T-Way Station - Hinchinbrook   12:15   -   12:25   12:35   -   12:45   12:55   -   1   1   1   1   1   1   1   1   1	2:50 3:05 3:14 3:20 3:33 3:37 3:43 3:54 4:00 4:17 4:27 4:33 4:47 4:52 4:58 5:08
Miller T-Way Station - Hinchinbrook   12:15   -   12:25   12:35   -   12:45   12:55   -   1   1   1   1   1   1   1   1   1	\$\begin{align*} \$2:50 \\ 3:05 \\ 3:14 \\ 3:20 \\ 3:33 \\ 3:37 \\ 3:43 \\ 3:54 \\ \$\begin{align*} \$4:00 \\ 4:17 \\ 4:27 \\ 4:33 \\ 4:47 \\ 4:52 \\ 4:58 \\ 5:08 \\ \$\begin{align*} \$alig
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Miller T-Way Station - Hinchinbrook   12:15   -   12:25   12:35   -   12:45   12:55   -   1   1   1   1   1   1   1   1   1	2:50 3:05 3:14 3:20 3:33 3:37 3:43 3:54 4:00 4:17 4:27 4:33 4:47 4:52 4:58 5:08 5:30 5:47 6:03 6:17 6:22
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Monday to Friday	Ł	Ł		Ł	F	Ł	Ł	Ł	₽.
Liverpool Interchange, Liverpool	15:40	15:50	16:00	16:10	16:20	16:30	16:40	16:50	17:00
Miller T-Way Station - Hinchinbrook	15:57	16:07	16:17	16:27	16:37	16:47	16:57	17:07	17:17
Bonnyrigg T-Way Station, Bonnyrigg	16:07	16:17	16:27	16:37	16:47	16:57	17:07	17:17	17:27
Prairiewood T-Way Station, Bossley Park	16:13	16:23	16:33	16:43	16:53	17:03	17:13	17:23	17:33
Smithfield T-Way Station, Smithfield	16:27	16:37	16:47	16:57	17:07	17:17	17:27	17:36	17:46
Canal T-Way Station - Merrylands West	16:32	16:42	16:52	17:02	17:12	17:22	17:32	17:40	17:50
Finlayson T-Way Station, South Wentworthville	16:38	16:48	16:58	17:08	17:18	17:28	17:38	17:46	17:56
Parramatta Station	16:48	16:58	17:08	17:18	17:28	17:38	17:48	17:56	18:06
Monday to Friday	Ł.		Ł					Ł	<u>.</u>
Liverpool Interchange, Liverpool	17:10	17:20	17:30	17:40	17:50	18:00	18:10	18:20	18:28
Miller T-Way Station - Hinchinbrook	17:27	17:37	17:45	17:55	18:05	18:15	18:25	18:35	18:43
Bonnyrigg T-Way Station, Bonnyrigg	17:37	17:47	17:55	18:05	18:15	18:24	18:34	18:44	18:52
Prairiewood T-Way Station, Bossley Park	17:43	17:53	18:01	18:11	18:21	18:29	18:39	18:49	-
Smithfield T-Way Station, Smithfield	17:56	18:06	18:14	18:24	18:34	18:42	18:52	19:02	-
Canal T-Way Station - Merrylands West	18:00	18:10	18:18	18:28	18:38	18:46	18:56	19:06	-
Finlayson T-Way Station, South Wentworthville	18:06	18:16	18:24	18:33	18:43	18:51	19:01	19:11	-
Parramatta Station	18:16	18:26	18:34	18:42	18:52	19:00	19:10	19:20	
Monday to Friday	į. E	Ł	Ł.	Ł	Ł.	<u>.</u> &	<u>.</u>	Ł	<u>.</u>
Liverpool Interchange, Liverpool	18:30	18:45	18:50	19:00	19:10	19:15	19:30	19:30	19:45
Miller T-Way Station - Hinchinbrook	18:45	19:00	19:05	19:15	19:25	19:30	19:43	19:43	19:58
Bonnyrigg T-Way Station, Bonnyrigg	18:54	19:09	19:14	19:24	19:34	19:39	19:51	19:51	20:06
Prairiewood T-Way Station, Bossley Park	18:59	19:14	-	19:29	-	19:44	-	19:56	20:11
Smithfield T-Way Station, Smithfield	19:11	19:26 19:30	-	19:41	-	19:56	-	20:07	20:22 20:26
Canal T-Way Station - Merrylands West	19:15 19:20	19:35	-	19:45 19:50	-	20:00	-	20:11	20:26
Finlayson T-Way Station, South Wentworthville Parramatta Station	19.20	19:35	_	19.50	_	20:03	_	20:17	20.32
				19.55		20.14			20.41
Monday to Friday	10:50	<u>٤</u>	30:10	20.15	30.30	20.20	20.45	21:00	21.15
Liverpool Interchange, Liverpool	19:50	20:00	20:10	20:15	20:30	20:30	20:45	21:00	21:15
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook	19:50 20:03	20:00 20:13	20:10 20:23	20:28	20:30 20:43	20:43	20:58	21:00 21:13	21:28
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg	19:50	20:00 20:13 20:21	20:10 20:23 20:31	20:28 20:36	20:30 20:43 20:51	20:43 20:51	20:58 21:06	21:00	21:28 21:36
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park	19:50 20:03 20:11	20:00 20:13 20:21 20:26	20:10 20:23	20:28 20:36 20:41	20:30 20:43	20:43 20:51 20:56	20:58 21:06 21:11	21:00 21:13 21:21	21:28 21:36 21:41
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield	19:50 20:03 20:11	20:00 20:13 20:21 20:26 20:37	20:10 20:23 20:31	20:28 20:36 20:41 20:52	20:30 20:43 20:51	20:43 20:51 20:56 21:07	20:58 21:06 21:11 21:22	21:00 21:13 21:21	21:28 21:36 21:41 21:52
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West	19:50 20:03 20:11	20:00 20:13 20:21 20:26	20:10 20:23 20:31	20:28 20:36 20:41	20:30 20:43 20:51	20:43 20:51 20:56	20:58 21:06 21:11	21:00 21:13 21:21	21:28 21:36 21:41
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield	19:50 20:03 20:11	20:00 20:13 20:21 20:26 20:37 20:41	20:10 20:23 20:31 -	20:28 20:36 20:41 20:52 20:56	20:30 20:43 20:51 -	20:43 20:51 20:56 21:07 21:11	20:58 21:06 21:11 21:22 21:26	21:00 21:13 21:21 - -	21:28 21:36 21:41 21:52 21:56
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station	19:50 20:03 20:11 	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56	20:10 20:23 20:31 - - - -	20:28 20:36 20:41 20:52 20:56 21:02 21:11	20:30 20:43 20:51 - - - -	20:43 20:51 20:56 21:07 21:11 21:17	20:58 21:06 21:11 21:22 21:26 21:32 21:41	21:00 21:13 21:21 - - - -	21:28 21:36 21:41 21:52 21:56 22:02 22:11
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday	19:50 20:03 20:11	20:00 20:13 20:21 20:26 20:37 20:41 20:47	20:10 20:23 20:31 - - -	20:28 20:36 20:41 20:52 20:56 21:02	20:30 20:43 20:51 - -	20:43 20:51 20:56 21:07 21:11 21:17	20:58 21:06 21:11 21:22 21:26 21:32	21:00 21:13 21:21 - - -	21:28 21:36 21:41 21:52 21:56 22:02
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station	19:50 20:03 20:11 	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56	20:10 20:23 20:31 - - - -	20:28 20:36 20:41 20:52 20:56 21:02 21:11	20:30 20:43 20:51 - - - -	20:43 20:51 20:56 21:07 21:11 21:17	20:58 21:06 21:11 21:22 21:26 21:32 21:41	21:00 21:13 21:21 - - - -	21:28 21:36 21:41 21:52 21:56 22:02 22:11
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions	19:50 20:03 20:11 - - - - - -	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56	20:10 20:23 20:31 - - - - -	20:28 20:36 20:41 20:52 20:56 21:02 21:11	20:30 20:43 20:51 - - - - -	20:43 20:51 20:56 21:07 21:11 21:17 21:26	20:58 21:06 21:11 21:22 21:26 21:32 21:41	21:00 21:13 21:21 - - - - -	21:28 21:36 21:41 21:52 21:56 22:02 22:11
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions Liverpool Interchange, Liverpool	19:50 20:03 20:11 - - - - - - - - 21:30	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56	20:10 20:23 20:31 - - - - - - 22:00	20:28 20:36 20:41 20:52 20:56 21:02 21:11	20:30 20:43 20:51 - - - - - - - - 22:45	20:43 20:51 20:56 21:07 21:11 21:17 21:26	20:58 21:06 21:11 21:22 21:26 21:32 21:41	21:00 21:13 21:21 - - - - - - - - 00:20	21:28 21:36 21:41 21:52 21:56 22:02 22:11
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park	19:50 20:03 20:11 - - - - - - 21:30 21:43	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56 & 21:45 21:58 22:06 22:11	20:10 20:23 20:31 - - - - - - - 22:00 22:13	20:28 20:36 20:41 20:52 20:56 21:02 21:11 & 22:15 22:28 22:36 22:41	20:30 20:43 20:51 - - - - - - - - - - - - - - - - - - -	20:43 20:51 20:56 21:07 21:11 21:17 21:26 23:15 23:28 23:36 23:41	20:58 21:06 21:11 21:22 21:26 21:32 21:41 & 23:45 23:45 23:58 00:06 00:11	21:00 21:13 21:21 - - - - - - - - - - - - - - - - - - -	21:28 21:36 21:41 21:52 21:56 22:02 22:11 <b>F</b> F00:50 01:03 01:11 01:16
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield	19:50 20:03 20:11 - - - - - 21:30 21:43 21:51	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56 & 21:45 21:58 22:06 22:11 22:22	20:10 20:23 20:31 - - - - - - 22:00 22:13 22:21	20:28 20:36 20:41 20:52 20:56 21:02 21:11 & 22:15 22:28 22:36 22:41 22:52	20:30 20:43 20:51 - - - - - - - - - - - - - - - - - - -	20:43 20:51 20:56 21:07 21:11 21:17 21:26 23:15 23:28 23:36 23:41 23:52	20:58 21:06 21:11 21:22 21:26 21:32 21:41 5 23:45 23:58 00:06 00:11 00:22	21:00 21:13 21:21 - - - - - - - - - - - - - - - - - - -	21:28 21:36 21:41 21:52 21:56 22:02 22:11 <b>F</b> F00:50 01:03 01:11 01:16 01:27
Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station - Merrylands West	19:50 20:03 20:11 	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56 & 21:45 21:58 22:06 22:11 22:22 22:26	20:10 20:23 20:31 	20:28 20:36 20:41 20:52 20:56 21:02 21:11 & 22:15 22:28 22:36 22:41 22:52 22:56	20:30 20:43 20:51 - - - - - - - - - - - - - - - - - - -	20:43 20:51 20:56 21:07 21:11 21:17 21:26 23:15 23:28 23:36 23:41 23:52 23:56	20:58 21:06 21:11 21:22 21:26 21:32 21:41 23:45 23:58 00:06 00:11 00:22 00:26	21:00 21:13 21:21 	21:28 21:36 21:41 21:52 21:56 22:02 22:11 <b>F</b> F00:50 01:03 01:11 01:16 01:27 01:31
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Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Saturday	19:50 20:03 20:11 - - - - - - 21:30 21:43 21:51 - -	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56 21:45 21:58 22:06 22:11 22:22 22:26 22:32	20:10 20:23 20:31 	20:28 20:36 20:41 20:52 20:56 21:02 21:11 & 22:15 22:28 22:36 22:41 22:52 22:56 23:00	20:30 20:43 20:51 	20:43 20:51 20:56 21:07 21:11 21:17 21:26 23:15 23:28 23:36 23:41 23:52 23:56 00:00	20:58 21:06 21:11 21:22 21:26 21:32 21:41 & 23:45 23:58 00:06 00:11 00:22 00:26 00:30	21:00 21:13 21:21 - - - - - - - - - - - - - - - - - - -	21:28 21:36 21:41 21:52 21:56 22:02 22:11  FF00:50 01:03 01:11 01:16 01:27 01:31 01:35
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Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Saturday Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg	19:50 20:03 20:11 	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56 21:45 21:58 22:06 22:11 22:22 22:26 22:32 22:41	20:10 20:23 20:31 	20:28 20:36 20:41 20:52 20:56 21:02 21:11 22:15 22:28 22:36 22:41 22:52 22:56 23:00 23:09	20:30 20:43 20:51 	20:43 20:51 20:56 21:07 21:11 21:17 21:26 23:15 23:28 23:36 23:41 23:52 23:56 00:00 00:09	20:58 21:06 21:11 21:22 21:26 21:32 21:41 & 23:45 23:58 00:06 00:11 00:22 00:26 00:30 00:39 & 07:00 07:13 07:21	21:00 21:13 21:21 	21:28 21:36 21:41 21:52 21:56 22:02 22:11   FF00:50 01:03 01:11 01:16 01:27 01:31 01:35 01:44  E 07:30 07:44 07:52
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Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Saturday Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bonssley Park Smithfield T-Way Station, Smithfield	19:50 20:03 20:11 	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56 21:45 21:58 22:06 22:11 22:22 22:26 22:32 22:41	20:10 20:23 20:31 	20:28 20:36 20:41 20:52 20:56 21:02 21:11 22:15 22:28 22:36 22:41 22:52 22:56 23:00 23:09 66:15 06:28 06:36 06:42 06:54	20:30 20:43 20:51 	20:43 20:51 20:56 21:07 21:11 21:17 21:26 23:15 23:28 23:36 23:41 23:52 23:56 00:00 00:09 6:45 06:45 06:58 07:06 07:12	20:58 21:06 21:11 21:22 21:26 21:32 21:41  23:45 23:45 23:58 00:06 00:11 00:22 00:26 00:30 00:39  & 07:00 07:13 07:21 07:27 07:39	21:00 21:13 21:21 	21:28 21:36 21:41 21:52 21:56 22:02 22:11  E F F00:50 01:03 01:11 01:16 01:27 01:31 01:35 01:44  E 07:30 07:44 07:52 07:58 08:10
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Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Monday to Friday Day Restrictions Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Saturday Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bonssley Park Smithfield T-Way Station, Smithfield	19:50 20:03 20:11 	20:00 20:13 20:21 20:26 20:37 20:41 20:47 20:56 21:45 21:58 22:06 22:11 22:22 22:26 22:32 22:41	20:10 20:23 20:31 	20:28 20:36 20:41 20:52 20:56 21:02 21:11 22:15 22:28 22:36 22:41 22:52 22:56 23:00 23:09 66:15 06:28 06:36 06:42 06:54	20:30 20:43 20:51 	20:43 20:51 20:56 21:07 21:11 21:17 21:26 23:15 23:28 23:36 23:41 23:52 23:56 00:00 00:09 6:45 06:45 06:58 07:06 07:12	20:58 21:06 21:11 21:22 21:26 21:32 21:41  23:45 23:45 23:58 00:06 00:11 00:22 00:26 00:30 00:39  & 07:00 07:13 07:21 07:27 07:39	21:00 21:13 21:21 	21:28 21:36 21:41 21:52 21:56 22:02 22:11  E F F00:50 01:03 01:11 01:16 01:27 01:31 01:35 01:44  E 07:30 07:44 07:52 07:58 08:10





Liverpool Interchange, Liverpool   07:45   08:00   08:15   08:30   08:45   09:00   09:15   09:30   09:45	C ( I		7			•				
Miller T-Way Station - Hinchinbrook   07:59   08:14   08:29   08:44   09:00   09:15   09:30   09:34   10:00	Saturday	6.7.45	<u>&amp;</u>	<u>&amp;</u>	<u>&amp;</u>	<u>&amp;</u>	<u>&amp;</u>	<u>&amp;</u>	<u>&amp;</u>	<u>&amp;</u>
Bonnyrigg T-Way Station, Bonnyrigg   08:07   08:23   08:34   08:59   09:15   09:30   09:45   10:00   10:15										
Prairiewood T-Way Station, Bossley Park Smithfield										
Smithfield T-Way Station, Smithfield										
Canal T-Way Station - Mernylands West   08:29   08:45   09:00   09:15   09:31   09:46   10:01   10:16   10:31										
Finlayson T-Way Station, South Wentworthville   08:34   08:50   09:05   09:20   09:36   09:51   10:06   10:21   10:36										
Paramatta Station										
Saturday										
Niller T-Way Station - Hinchinbrook   10:00   10:15   10:30   10:45   11:00   11:15   11:30   11:45   12:00   12:15   13:00   13:15   13:10   12:16   12:10   12:15   13:00   13:15   13:00										
Miller T-Way Station - Hinchinbrook   10:15   10:30   10:45   11:00   11:15   11:30   11:45   12:00   12:15   12:30   12:45   12:31   12:31   13:45   12:31   12:31   13:45										
Bonnyrigg T-Way Station, Bonnyrigg										
Prairiewood T-Way Station, Bossley Park   10:30   10:45   11:00   11:15   11:30   11:46   12:01   12:16   12:31   Canal T-Way Station - Merrylands West   10:46   11:01   11:16   11:31   11:46   12:02   12:47   12:32   12:47   13:49   13:45   13:40   13										
Smithfield T-Way Station, Smithfield         10:42         10:57         11:12         11:42         11:42         11:42         12:43         12:23         12:47           Finlayson T-Way Station, South Wentworthville Inlayson T-Way Station, South Wentworthville Paramatta Station         10:51         11:06         11:21         11:36         11:51         12:07         12:22         12:37         12:25         12:47         12:20         12:17         12:20         12:17         12:22         12:47         12:20         12:17         12:20         12:17         12:20         12:17         12:20         12:17         12:20         12:17         12:20         12:17         12:20         12:17         12:20         12:17         12:20         12:15         12:30         12:45         13:00         13:15         13:30         13:45         14:00         14:15         14:30         12:47         12:25         13:00         13:15         13:30         13:30         13:45         14:00         14:15         14:30         14:30         14:30         14:30         14:30         12:42         12:45         14:30         14:30         14:30         14:31         14:26         14:30         14:30         14:31         14:26         14:30         14:32         14:32 </td <td></td>										
Canal T-Way Station - Merrylands West   10:46   11:01   11:16   11:31   11:46   12:02   12:17   12:32   12:47   17:32   17:4										
Finlayson T-Way Station, South Wentworthville   10:51   11:06   11:21   11:36   11:21   12:07   12:22   12:37   12:52										
Parramatta Station										
Saturday										
Liverpool Interchange, Liverpool   12:15   12:30   12:45   13:00   13:15   13:30   13:45   14:00   14:15   14:30   13:15   13:30   13:45   14:00   14:15   14:30   13:15   13:30   13:45   14:00   14:15   14:30   13:15   13:30   13:45   14:00   14:15   14:30   13:15   13:30   13:45   14:00   14:15   14:30   13:15   13:30   13:45   14:00   14:15   14:30   13:15   13:30   13:45   14:00   14:15   14:30   13:15   13:30   13:45   14:00   14:15   14:30   14:40   14:16   14:31   14:46   14:40   14:16   14:31   14:46   14:40   14:16   14:31   14:46   14:40   14:16   14:31   14:46   14:40   14:16   14:31   14:46   14:40   14:17   14:32   14:47   15:02   15:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:17   13:14   14:35   14:30   14:45   15:00   13:15   13:30   13:45   14:30   14:45   15:00   15:15   15:30   15:45   16:00   16:15   16:30   16:15   16:30   16:15   16:30   16:45   16:30   1										
Miller T-Way Station - Hinchinbrook   12:30   12:45   13:00   13:15   13:30   13:45   14:00   14:15   14:30   14:40   12:55   13:10   13:25   13:40   13:55   14:10   14:25   14:40   14:16   14:31   14:46   14:41   14:41   14:45   14:41   14:41   14:45   14:41										
Bonnyrigg T-Way Station, Bonsyrigg   12:40   12:55   13:10   13:25   13:40   13:55   14:10   14:25   14:40   Prairiewood T-Way Station, Smithfield   12:58   13:01   13:26   13:31   13:28   13:31   13:46   14:01   14:16   14:31   14:45										
Prairiewood T-Way Station, Bossley Park   12:46   33:01   13:16   13:31   13:46   14:01   14:16   14:31   14:46   Smithfield T-Way Station, Smithfield   13:02   13:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:07   Parramatta Station   13:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:07   Parramatta Station   13:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:07   Parramatta Station   14:45   13:07   13:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:07   Parramatta Station   14:45   15:00   13:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:07   Parramatta Station   14:45   15:00   13:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:17   Parramatta Station   14:45   15:00   14:45   15:00   15:15   15:30   15:45   16:00   16:15   16:30   16:45   Parramatta Station   14:45   15:00   15:15   15:30   15:45   16:00   16:15   16:30   16:45   Parramatta Station, Bonnyrigg   14:55   15:10   15:16   15:31   15:46   16:01   16:15   16:30   16:45   Parramatta Station   Merrylands West   15:17   15:32   15:47   16:02   16:17   16:32   16:47   17:02   17:17   17:32   Parramatta Station   Hinchinbrook   17:00   17:15   17:30   17:45   18:00   18:15   18:30   18:45   19:00   Parramatta Station   Hinchinbrook   17:00   17:15   17:30   17:45   18:00   18:15   18:30   18:45   19:00   Parramatta Station   Hinchinbrook   17:00   17:15   17:30   17:45   18:00   18:15   18:30   18:45   19:00   Parramatta Station   Hinchinbrook   17:00   17:15   17:30   17:45   18:00   18:15   18:30   18:45   19:00   Parramatta Station   Hinchinbrook   17:00   17:15   17:30   17:45   18:00   18:15   18:30   18:45   19:00   Parramatta Station   Hinchinbrook   17:00   17:15   17:30   17:45   18:00   18:15   18:30   18:45   19:00   Parramatta Station   Hinchinbrook   17:00   17:15   17:30   17:45   18:00   18:15   18:30   18:45   19:00   19:15   19:30   19:45   18:00   18:15   18:30   18:45   19:00   19:15   19:30   19:45   18:00   18:15   18:30   18:45										
Smithfield T-Way Station, Smithfield         12:58         13:13         13:28         13:34         13:58         14:13         14:28         14:47         15:05           Canal T-Way Station - Merrylands West         13:07         13:22         13:37         13:32         13:37         13:25         14:07         14:22         14:37         14:52         15:07           Parramatta Station         13:17         13:32         13:37         13:25         14:00         14:17         14:22         14:47         15:00         15:17           Saturday         3         4:45         15:00         15:15         15:30         15:45         16:00         16:15         16:30           Miller T-Way Station - Hinchinbrook         14:45         15:00         15:15         15:30         15:45         16:00         16:15         16:30         16:40         16:55           Prairiewood T-Way Station, Bonsley Park         15:01         15:16         15:31         15:25         15:40         16:10         16:11         16:25         16:40         16:55           Prairiewood T-Way Station, Smithfield         15:13         15:28         15:47         16:02         16:17         16:22         16:31         16:58         17:10										
Canal T-Way Station - Merrylands West   13:02   13:17   13:32   13:47   14:02   14:17   14:32   14:47   15:02   15:107   13:121   13:07   13:22   13:37   13:52   14:07   14:22   14:37   14:52   15:07   15:107   13:107   13:22   13:37   13:52   14:07   14:22   14:37   14:02   14:37   15:02   15:17										
Finlayson T-Way Station, South Wentworthville   13:07   13:22   13:37   13:52   14:07   14:22   14:37   14:52   15:07   Parramatta Station   13:17   13:32   13:37   13:52   14:07   14:32   14:47   15:02   15:17										
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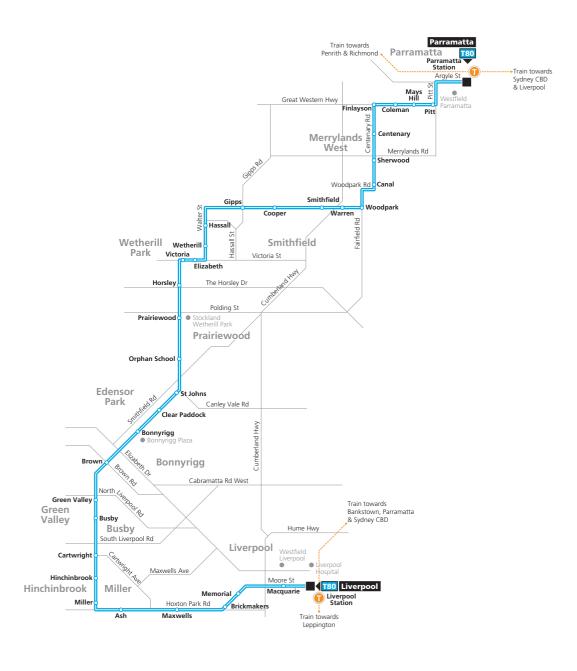
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Smithfield T-Way Station, Smithfield	23:20	23:50	00:10	00:50					
Canal T-Way Station - Merrylands West	23:24	23:54	00:24	00:54					
Finlayson T-Way Station, South Wentworthville	23:29	23:59	00:29	00:59					
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Smithfield T-Way Station, Smithfield	05:33	06:03	06:34	06:54	07:09	07:12	07:39	07:54	08:09
Canal T-Way Station - Merrylands West	05:37	06:07	06:38	06:58	07:03	07:28	07:43	07:58	08:13
Finlayson T-Way Station, South Wentworthville	05:42	06:12	06:43	07:03	07:18	07:33	07:48	08:03	08:18
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Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Sunday & Public Holidays Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Sunday & Public Holidays Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bonnyrigg	10:00 10:14 10:23 10:30 10:42 10:46 10:51 11:02 \$12:15 12:29 12:38 12:45 12:57 13:01 13:06 13:17 \$14:30 14:44 14:53 15:00	10:15 10:29 10:38 10:45 10:57 11:01 11:06 11:17 & 12:30 12:44 12:53 13:00 13:12 13:16 13:21 13:32 4:45 14:45 14:59 15:08 15:15	10:30 10:44 10:53 11:00 11:12 11:16 11:21 11:32 12:45 12:59 13:08 13:15 13:27 13:31 13:36 13:47	10:45 10:59 11:08 11:15 11:27 11:31 11:36 11:47 & 13:00 13:14 13:23 13:30 13:42 13:46 13:51 14:02 & 15:15 15:29 15:38 15:45	11:00 11:14 11:23 11:30 11:42 11:46 11:51 12:02 & 13:15 13:29 13:38 13:45 13:57 14:01 14:06 14:17 & 15:30 15:44 15:53 16:00	11:15 11:29 11:38 11:45 11:57 12:01 12:06 12:17	11:30 11:44 11:53 12:00 12:12 12:16 12:21 12:32 (a) 13:45 13:59 14:08 14:15 14:27 14:31 14:36 14:47 (a) 16:00 16:14 16:23 16:30	11:45 11:59 12:08 12:15 12:27 12:31 12:36 12:47 14:00 14:14 14:23 14:30 14:42 14:46 14:51 15:02	12:00 12:14 12:23 12:30 12:42 12:46 12:51 13:02 & 14:15 14:29 14:38 14:45 14:57 15:01 15:06 15:17 & 16:30 16:44 16:53 17:00
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Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bossley Park Smithfield T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Sunday & Public Holidays Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Smithfield Canal T-Way Station - Merrylands West Finlayson T-Way Station, South Wentworthville Parramatta Station  Sunday & Public Holidays Liverpool Interchange, Liverpool Miller T-Way Station - Hinchinbrook Bonnyrigg T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bonnyrigg Prairiewood T-Way Station, Bonssley Park Smithfield T-Way Station, Smithfield	10:00 10:14 10:23 10:30 10:42 10:46 10:51 11:02 & 12:15 12:29 12:38 12:45 12:57 13:01 13:06 13:17 & 14:30 14:44 14:53 15:00 15:12	10:15 10:29 10:38 10:45 10:57 11:01 11:06 11:17 & 12:30 12:44 12:53 13:00 13:12 13:16 13:21 13:32 & 14:45 14:59 15:08 15:15 15:27	10:30 10:44 10:53 11:00 11:12 11:16 11:21 11:32 12:45 12:59 13:08 13:15 13:27 13:31 13:36 13:47 15:00 15:14 15:23 15:30 15:42	10:45 10:59 11:08 11:15 11:27 11:31 11:36 11:47 & 13:00 13:14 13:23 13:30 13:42 13:46 13:51 14:02 & 15:15 15:29 15:38 15:45 15:57	11:00 11:14 11:23 11:30 11:42 11:46 11:51 12:02 & 13:15 13:29 13:38 13:45 13:57 14:01 14:06 14:17	11:15 11:29 11:38 11:45 11:57 12:01 12:06 12:17 & 13:30 13:44 13:53 14:00 14:12 14:16 14:21 14:32	11:30 11:44 11:53 12:00 12:12 12:16 12:21 12:32 (5) 13:45 13:59 14:08 14:15 14:27 14:31 14:36 14:47 (6) 16:14 16:23 16:30 16:42	11:45 11:59 12:08 12:15 12:27 12:31 12:36 12:47 14:00 14:14 14:23 14:30 14:42 14:46 14:51 15:02	12:00 12:14 12:23 12:30 12:42 12:46 12:51 13:02 & 14:15 14:29 14:38 14:45 14:57 15:01 15:06 15:17 & 16:30 16:44 16:53 17:00 17:12





Sunday & Public Holidays	Ł.	Ł	Ł.	Ł.	į.	Ł	Ł.	Ł	į.
Liverpool Interchange, Liverpool	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45
Miller T-Way Station - Hinchinbrook	16:59	17:14	17:29	17:44	17:59	18:14	18:29	18:44	18:59
Bonnyrigg T-Way Station, Bonnyrigg	17:08	17:23	17:38	17:53	18:08	18:23	18:37	18:52	19:07
Prairiewood T-Way Station, Bossley Park	17:15	17:30	17:45	18:00	18:15	18:30	18:44	18:59	19:14
Smithfield T-Way Station, Smithfield	17:27	17:42	17:57	18:12	18:27	18:42	18:56	19:11	19:26
Canal T-Way Station - Merrylands West	17:31	17:46	18:01	18:16	18:31	18:46	19:00	19:15	19:30
Finlayson T-Way Station, South Wentworthville	17:36	17:51	18:06	18:21	18:36	18:51	19:05	19:20	19:35
Parramatta Station	17:47	18:02	18:17	18:32	18:47	19:02	19:15	19:30	19:45
Sunday & Public Holidays	F	E	Ł	£	Ł	Ł	Ł	Ł	E.
Liverpool Interchange, Liverpool	19:00	19:15	19:30	19:45	20:15	20:45	21:15	21:45	22:15
Miller T-Way Station - Hinchinbrook	19:14	19:29	19:44	19:59	20:29	20:58	21:28	21:58	22:28
Bonnyrigg T-Way Station, Bonnyrigg	19:22	19:37	19:52	20:07	20:37	21:06	21:36	22:06	22:36
Prairiewood T-Way Station, Bossley Park	19:29	19:44	19:59	20:14	20:44	21:13	21:43	22:13	22:43
Smithfield T-Way Station, Smithfield	19:41	19:56	20:11	20:26	20:56	21:24	21:54	22:24	22:54
Canal T-Way Station - Merrylands West	19:45	20:00	20:15	20:30	21:00	21:28	21:58	22:28	22:58
Finlayson T-Way Station, South Wentworthville	19:50	20:05	20:20	20:35	21:05	21:33	22:03	22:33	23:03
Parramatta Station	20:00	20:15	20:30	20:45	21:15	21:42	22:12	22:42	23:12
Sunday & Public Holidays	Ł	Ł	Ł						
Liverpool Interchange, Liverpool	22:45	23:15	23:45						
Miller T-Way Station - Hinchinbrook	22:57	23:27	23:57						
Bonnyrigg T-Way Station, Bonnyrigg	23:04	23:34	00:04						
Prairiewood T-Way Station, Bossley Park	23:10	23:40	00:10						
Smithfield T-Way Station, Smithfield	23:21	23:51	00:21						
Canal T-Way Station - Merrylands West	23:25	23:55	00:25						
Finlayson T-Way Station, South Wentworthville	23:29	23:59	00:29						
Parramatta Station	23:37	00:07	00:37						

















Transport and Traffic Planning Associates

Appendix G

Road Safety Audit



#### 1.5 Checklists and Reference Material

The project was audited in accordance with the RMS Guidelines for Road Safety Audit Practices 2011, the AUSTROADS Road Safety Audit Guidelines (Part 6) 2019. Other key reference material included:

AUSTROADS Road Safety Engineering Toolkit
AUSTROADS Guide to Road Design (AGRD) and RMS Austroads Supplements
RMS Delineation Guidelines
Transport Roads & Traffic Authority Technical Direction TDT 2011/01a
NSW bicycle guidelines

AS 1742.2-2009 Manual of uniform traffic control devices Part 2: Traffic control devices for general use

The key elements examined included.

- General road layouts and features
- · Pedestrian refuge details
- General construction in accordance with AFC drawings
- Road features
- Lighting, signs and delineation
- Local environmental conditions
- Traffic and Pedestrian behaviour

#### 1.6 Responding to the Audit Report

As set out in the road safety audit guidelines, responsibility for the road design always rests with the designer/project manager and not with the auditor. A project manager is under no obligation to accept any or all the audit deficiencies. Also, it is not the role of the auditor to agree to or approve the project manager's response to the audit. Rather, the audit provides the opportunity to highlight potential problems and have them formally considered by the project manager, in conjunction with all other project considerations.

To assist with this, Table 3.1 (containing this audit's findings) includes a column for any response.

#### 2 ROAD SAFETY AUDIT PROGRAM

#### 2.1 Program

The site was inspected on 14 August 2020. The works were 'walked' and various 'drives' through the site were undertaken during day light and night time hours.

The road safety audit was completed on 18 August 2020 following receipt of the Project Managers response to deficiencies identified by the audit team which included a Level 3 accredited Lead Road Safety Auditor.

At the time of completion, no follow up meetings or audits had been scheduled.

#### 2.2 Road Safety Audit Objectives

The road safety audit is limited in assessing potential road safety risks i.e. accident potential, for all users of the project, irrespective of the design and construction standards adopted.

The objectives of the audit are to: -

- Identify and eliminate potential safety hazards for all road users likely to use the roadway, including traffic, pedestrians and cyclists.
- Ensure that measures to eliminate or reduce future safety problems are fully considered, prior to road operation or opening.
- Improve safety risks associated with the project and prevent the development of new accident locations.

#### 3 ROAD SAFETY AUDIT FINDINGS

This road safety audit identified a number of potential road safety issues. The safety audit process requires that the safety issues identified during an audit be acknowledged by the Audit Team and accordingly responded to by the Project Team. The issues are characterised according to their risk, and detailed in Table 3.1 'Deficiency Log' following and are further referenced to the 'CAR' Forms attached. The CAR forms will facilitate proper close out of each deficiency, as it requires follow up action from the Project Manager as well as the formal close out of each CAR by the Project Manager. The CAR forms also provide for concurrence of corrective actions by the relevant Road Authority.

#### Likelihood of Crashes\*

Frequency	Description	Probability	Likelihood Rating
Frequent	An event is expected to occur. Once or more per week.	90-100%	5
Probable	An event will probably occur. Once or more per year (but less than once a week)	55-90%	4
Occasional	An event might occur in some circumstances.  Once every five or ten years	30-55%	3
Improbable	An event could occur. Less often than once every ten years.	5-30%	2
Rare	An event could occur only in exceptional circumstances	<5%	1

#### Consequences of Crashes\*

Severity	Description	Examples	Severity Rating
Catastrophic	Likely multiple deaths	High speed, multi vehicle crash. Car runs into a crowded bus stop.	4
Serious	Likely death or serious injury	High or medium speed vehicle/vehicle collision. High or medium speed collision with a fixed roadside object. Pedestrian or cyclist struck by a car.	3
Moderate	Likely minor injury	Some low speed vehicle collisions. Rear end crashes.	2
Limited	Likely trivial injury or property damage only	Some low speed vehicle collisions. Pedestrian walks into an object. Car reverses into an object.	1

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#### RISK SCORE = SEVERITY RATING + LIKELIHOOD RATING

Risk Score	Priority
9	Extreme
7-8	High
5-6	Medium
2-4	Low

<sup>\*</sup> Source: AUSTROADS Guide to Guide to Road Safety Part 6: Road Safety Audit

One of three possible priority levels (e.g. high, medium or low) has been assigned to each safety issue. The priority levels are defined as follows:

High Priority: A high road safety risk that should be corrected or the risk significantly

reduced, even if the treatment cost is high.

Medium Priority: A medium road safety risk that should be corrected or the risk significantly

reduced, even if the treatment cost is moderate, but not high.

Low Priority: A lower road safety risk that should be corrected or the risk reduced, if the

treatment cost is low.

#### Road Safety Audit Scope

It should be noted that all safety issues identified may not necessarily be within the scope of the project. This is because while the scope of the audit is generally within the design and construction area described earlier, to complete a full audit of the project, the approaches to the design area were also audited to identify potential safety issues that may affect road safety within the project road sections. Therefore, some safety issues that are within and outside the design area may be the responsibility of the relevant controlling road authority.

## 3.1 Safety Deficiency Log

No.	Location	Description	Likelihood	Severity	Risk Score	Priority				
		Great Western Highway / Belinda Place Left-in, Left-out priority controlled 'T' intersection								
1a		There are limited traffic control facilities for vehicles approaching the intersection from the south in Belinda Place. Currently there is only a single 'GIVE WAY' sign controlling westbound vehicles turning left from Belinda Place to the Great Western Highway (P1, P2, P3)).  Examination of Google Street View images from August 2013 indicate however that previous traffic control at the intersection included a 'TB' hold line across Belinda Place (P4). The 'TB' line appears to have been covered by pavement resurfacing works.	4	3	7	High				

#### Stage 5, Road Safety Audit Report Murugan Temple Multi-Story Carpark Access

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
		The following risks have been identified:				
		The absence of a visible 'TB' hold line could result in drivers not being aware of the position to hold and give way to any traffic in the Great Western Highway kerbside bus lane. This could result in vehicles protruding into the kerbside lane in order for drivers to improve their sight line causing collisions with buses and/or any other vehicles using the westbound lane.				







(P1) (P2) (P3)

Response: The line-marking was installed in prior to July 2010 as part of the resurfacing of the Great Western Highway. It has faded over the 10-year period. A review of TfNSW crash data (2014-2018) and www.snarl.com (2019 to current), no crashes were reported at the intersection of Belinda Place/Great Western Highway. As such, the omission of the give-way line does not present any significant safety concerns. The applicant will liaise with Council to restore the line-marking as required.

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
1b		Apart from a raised (mountable) median along the Great Western Highway located opposite the intersection, there are no regulatory signs prohibiting right turn movements from Belinda Place to the Great Western Highway or from the Great Western Hwy into Belinda Place respectively.	4	3	7	High
		Examination of Google Street View images from August 2013 indicate however that previous traffic controls at and approaching the intersection included:				
		<ol> <li>'NO RIGHT TURN' R2-6N_R sign prohibiting vehicles turning right from Belinda Place into the Great Western Highway eastbound (P5).</li> </ol>				
		(P5)				
		<ol> <li>'NO RIGHT TURN' R2-6N_R sign prohibiting vehicles turning right from the Great Western Highway into Belinda Place (P6).</li> </ol>				

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
		(P6)				
		It was also noted from the site inspection and examination of Google Street View images dated March 2020, that 'LEFT ONLY' R2-14L signs have been installed at:				
		<ul> <li>Whitworth Street to reinforce the left turn only onto the Great Western Hwy eastbound (P7)</li> </ul>				
		- In the median opposite the existing Temple access (P8).				

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
NO.	Location	(P7)  KÉEP LEFT			Score	Priority
		(P8)				

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
		The limited traffic controls at the Belinda Street intersection could result in the following risks:				
		<ul> <li>Vehicles attempting to turn make an illegal right turn from Belinda Place across the mountable median into the Great Western Hwy eastbound resulting in vehicle/vehicle type collisions.</li> </ul>				
		<ul> <li>Vehicles attempting to make an illegal right turn from the Great Western Hwy across the mountable median into Belinda Place resulting in vehicle/vehicle type collisions.</li> </ul>				

Response: The no left-turn sign on Belinda Place and no right-turn on the Great Western Highway were removed prior to August 2017.

A review of TfNSW crash data (2014-2018) and www.snarl.com (2019 to current), no crashes were reported at the intersection of Belinda Place/Great Western Highway. As such, the removal of the signs has not present any significant safety concerns. Based on the traffic surveys completed in 2016, 2019 and 2020, the movements associated with the right-turn in from the Great Western Highway and the right-turn out from Belinda Place did not occur at the intersection, demonstrating the provision of the existing median is adequate to restrict such movements.

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
2		There is no direct concrete path connection across the splay corner between the existing paths in Belinda Place and the Great Western Hwy. The respective pathways currently intersect at the kerb ramp on the southwest corner on the Great Western Hwy / Belinda Place intersection (P9).	2	1	3	Low
		The following risks have been identified:				
		<ul> <li>Congestion and conflict at the kerb ramp forcing pedestrians off the path or kerb ramp.</li> </ul>				
		<ul> <li>Trip, slip and fall type accidents for pedestrians that follow the desire line across the slay corner.</li> </ul>				



Response: Pedestrian movements associated with the Temple use between the footpaths along Belinda Place and the Great Western Highway are negligible. With the proposed carpark, a new pedestrian access will be provided on Belinda Place to allow a more direct access to the Temple through the carpark. A review of TfNSW crash data (2014-2018) and www.snarl.com (2019 to current), no pedestrian related crashes were reported at the

intersection of Belinda Place/Great Western Highway. As such, the existing pedestrian paths do not present any significant safety concerns.

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
3		The existing kerb ramp on the southwest corner of the Great Western Hwy/Belinda Street intersection has not been constructed in accordance with current RMS standard drawing No. R0300-11. The current configuration of the kerb ramp and alignment of the connecting path from Belinda Place could result in sight impaired pedestrians stepping onto the Great Western Highway westbound bus lane into the path of westbound traffic.	2	3	5	Medium



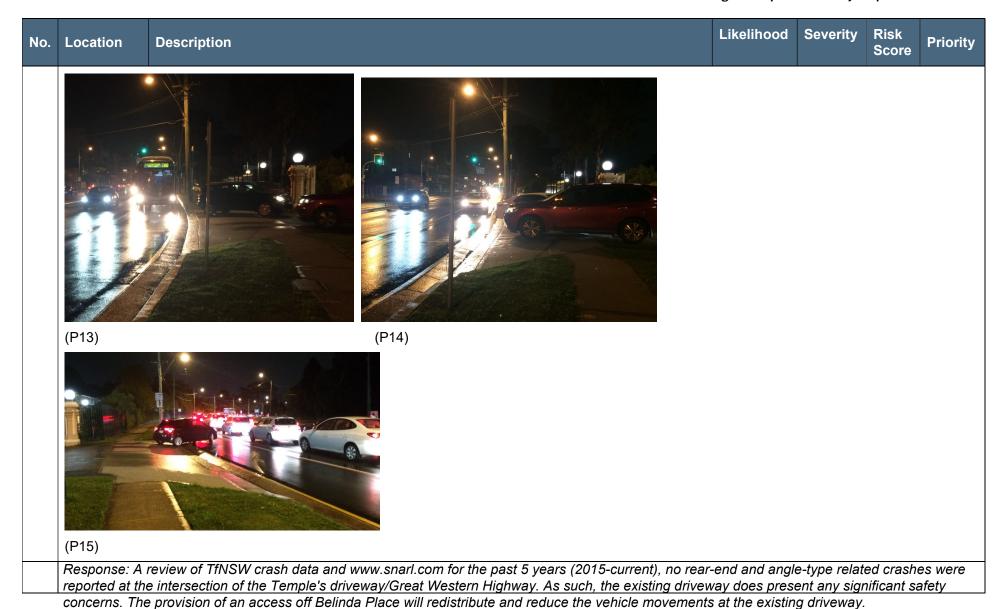


(P10) (P11)

Response: A review of TfNSW crash data (2014-2018) and www.snarl.com (2019 to current), no pedestrian related crashes were reported at the intersection of Belinda Place/Great Western Highway. As such, the existing pedestrian paths do not present any significant safety concerns. The applicant will liaise with Council to provide "LOOK" pavement marker on the ramp to highlight the presence of vehicles as required.



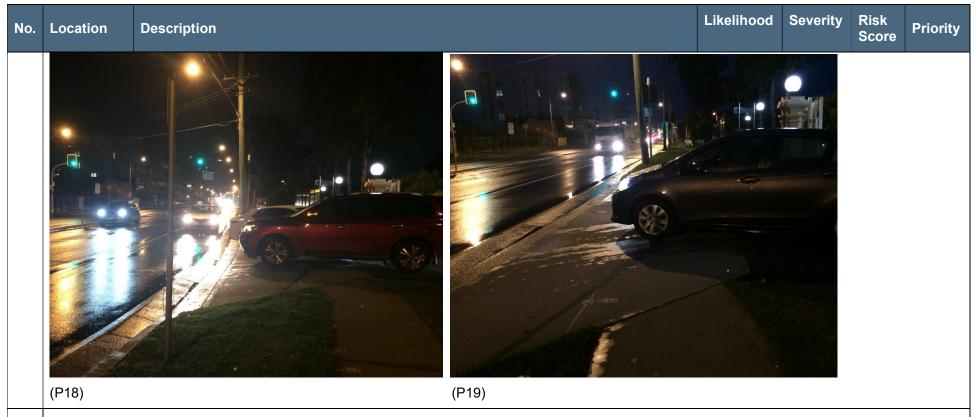
No.	Location	Description	Likelihood	Severity	Risk Score	Priority
4		There is an existing kerbside 'BUS LANE' which is being utilised as a left turn deceleration lane and right turn acceleration lane for vehicles entering and exiting the existing Temple carpark respectively. (P13, P14, P15)	4	2	6	Medium
		While the 'BUS LANE provides an opportunity for vehicles to decelerate to turn in and accelerate turning out of the Temple access clear of the adjacent westbound general traffic lane, there is a risk of turning vehicle traffic conflicts with buses including:				
		<ul> <li>Rear-end collisions with vehicles decelerating before turning or possibly stopping in the 'BUS LANE' and waiting for other turning vehicles and pedestrians to clear.</li> </ul>				
		<ul> <li>Angle type collisions with vehicles waiting for a gap in the adjacent westbound lane or merging slowly from the 'BUS LANE' into the adjacent general traffic lane.</li> </ul>				
		The auditors acknowledge that there is a clear sight line for westbound buses or other general traffic approaching the Temple access driveway. Accordingly Approach Sight Distance (ASD), Safe Intersection Sight Distance (SISD) and Minimum Gap Sight Distance (MGSD) is available for vehicles speeds up to 70km/h. (Ref# AGRD Part 4A Section 3.4.				



No.	Location	Description	Likelihood	Severity	Risk Score	Priority
5		There is an existing 'STOP' sign located adjacent to the fence on the exit to the Temple site access (P16). Although speeds were very slow, some vehicles exiting the Temple carpark were observed not stopping to check for pedestrians crossing in front of the access (P17, P18, P19)). It is noted there are no signs to warn drivers of pedestrians crossing in front of the access.	4	3	7	High
		There is a risk of vehicle / pedestrian collisions as a result of vehicles failing to stop prior to crossing over the westbound verge and footpath.				







Response: The applicant will install flashing light onto the existing stop sign. In addition to the flashing light, the applicant will install a PEDESTRIAN sign and convex mirror within the site to highlight the presence of pedestrians as well as extend sightlines to the pedestrians along the footpath on the Great Western Highway.

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
	Belinda Pla	c <mark>e</mark>				
6		There are no stopping or parking restrictions within or adjacent to the cul-de-sac bulb.  Vehicles stopped or parked within the cul-de-sac could restrict or inhibit vehicles manoeuvring within the cul-de-sac and/or entering and exiting the proposed new multi-storey carpark access. There is a risk of vehicle/vehicle and vehicle/pedestrian conflicts. (P20, P21, P22)	3	3	6	Medium

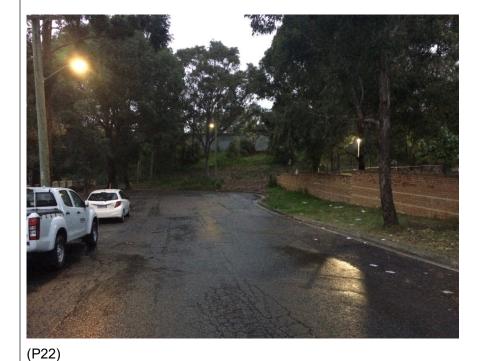




(P20)

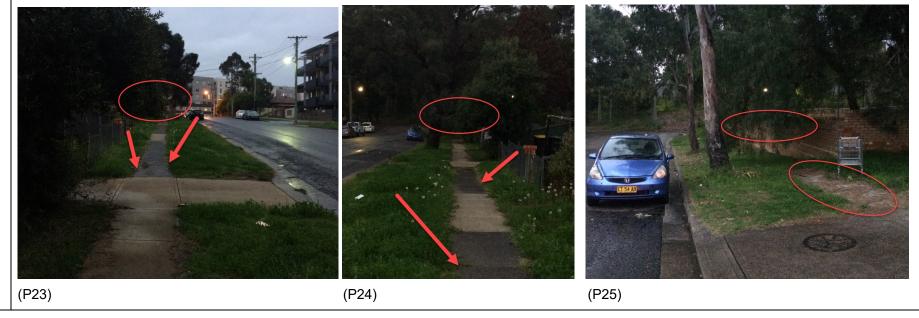
(P21)

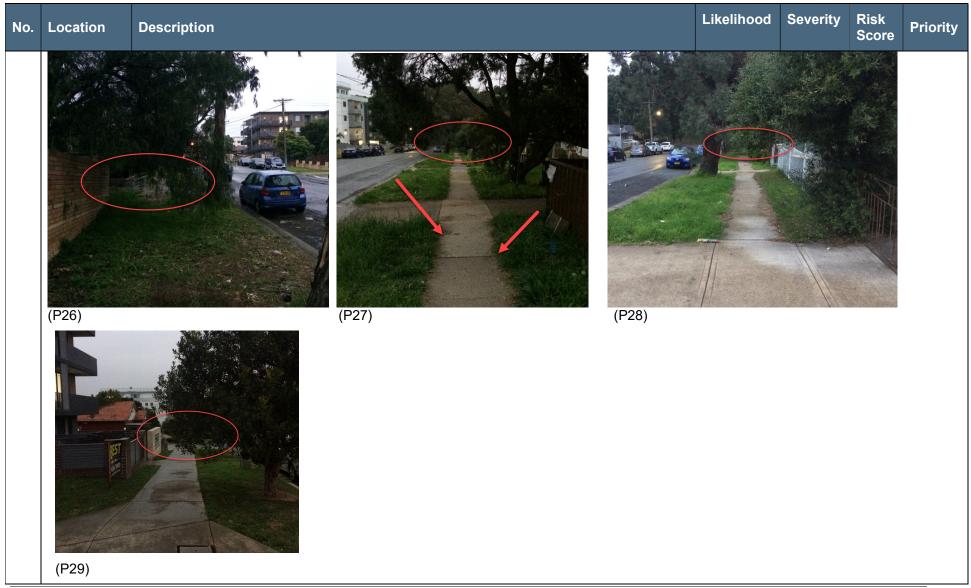
No.	Location	Description	Likelihood	Severity	Risk Score	Priority
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Response: The Applicant will liaise with Council on the provision of No Stopping zone within the cul-de-sac as part of the CC stage.

No.	Location	Description	Likelihood	Severity	Risk Score	Priority
7		The general safety of pedestrians using the footways on both sides of Belinda Place is compromised by:	3	1	4	Low
		- low overhanging branches from existing trees				
		- grass overgrowing the concrete footpath restricting the usable width				
		- broken concrete pathways creating trip hazards				
		- general litter and waste dumped on the pathways				



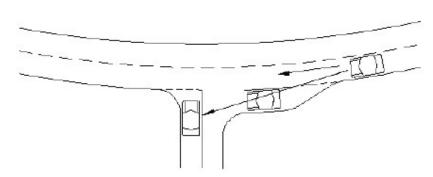


No	. Location	Description	Likelihood	Severity	Risk Score	Priority
	movements a	ith the proposed carpark, reliance on the kerbside parking on Belinda Place will be reduced long Belinda Place associated with the Temple's use will be minimal. The applicant will liaise ing should significant hazards are present in the future as required.				

#### 3.2 General Safety Comments

G1 Safe
Intersection
Sight
Distance
(Left Turn
Treatments

Austroads Guide to Road Safety suggests that the provision of a left turn lane into a side road or driveway can result in a left turning vehicle hiding a following vehicle under some circumstances.



# Ref: Austroads Guide to Road Safety Part 6: Road Safety Audit)

In the case of both Belinda Place and the Temple carpark access, under the NSW Road Rules the existing westbound 'BUS LANE' in the Great Western Highway can and is being used by general traffic to turn left at these locations.

Response: A review of TfNSW crash data and www.snarl.com for the past 5 years (2015current), no rear-end and angletype related crashes were reported at the intersection of the Temple's driveway/Great Western Highway and Belinda Place/Great Western Highway. As such, the current use of Bus Lane as deceleration lanes to enter/exit the existing driveway and Belinda Place do present any significant safety concerns as well as in accordance to the Road Rules.

#### G2 Clear zone

The posted speed limit along the Great Western Highway at the location is 60km/h. Based on an assumed design speed of 60 km/h to 70km/h and a design ADT of <750 vehicles, the clear zone width from the face of kerb adjacent to the westbound Bus Lane along the Great Western Highway would be in the range of 3.0m to 3.5m.. (Ref# AGRD Part 6 Table 4.1).

Table 4.1: Clear zone distances from edge of through travelled way

Design speed (km/h)	Design ADT	Clear zone width (m)					
		Fill batter			Cut batter		
		6:1 to flat	4:1 to 5:1	3:1 and steeper <sup>(2)</sup>	6:1 to flat	4:1 to 5:1	3:1 and steeper <sup>(2)</sup>
≤ 60	< 750	3.0	3.0	(2)	3.0	3.0	3.0
	750 – 1500	3.5	4.5	(2)	3.5	3.5	3.5
	1501 - 6000	4.5	5.0	(2)	4.5	4.5	4.5
	> 6000	5.0	5.5	(2)	5.0	5.0	5.0
70 – 80	< 750	3.5	4.5	(2)	3.5	3.0	3.0
	750 – 1500	5.0	6.0	(2)	5.0	4.5	3.5
	1501 - 6000	5.5	8.0	(2)	5.5	5.0	4.5
	> 6000	6.5	8.5	(2)	6.5	6.0	5.0

It is noted that there are existing non-frangible power and street light poles located within the westbound verge of the Great Western Highway that are inside the clear zone of the adjacent bus lane.

Response: A review of TfNSW crash data and www.snarl.com for the past 5 years (2015current), no rear-end and angletype related crashes were reported at the intersection of the Temple's driveway/Great Western Highway and Belinda Place/Great Western Highway. As such, the existing power and street light poles within the verge do present any significant safety concerns. in addtion, the presence of street furnitures within the clear zone are common very common in Sydney.



# G3 Street lighting

During the night time inspection the footway on the western side of Belinda Place appeared to be very dark.

There are no street lighting luminaires on the western side of Belinda Place. Light spread from the existing street light luminaires from the eastern side footway is restricted by shadows formed by trees and bushes overhanging the footpath on the western side.

There are potential security risks to pedestrians using the darkened footway in the western verge of Belinda Place at night.



(P32) Looking south along the western footway in Belinda Place

Response: With the proposed carpark, reliance on the kerbside parking on Belinda Place will be reduced significantly. As such, the pedestrian movements along Belinda Place associated with the Temple's use will be minimal.

The applicant will liaise with Council on the provision of additional lighting as required.

G4	Existing
	pavement
	makings

It is noted that the existing 50km/h speed zone pavement marking in Belinda Place (P33) and the directional pavement arrows at the entry / exit to the Temple carpark (P34) have deteriorated. Currently the pavement markings are considered generally ineffective for vehicle speed regulation and guidance.

Response: The pavement markers were installed prior to November 2009. The applicant will liaise with Council to restore the pavement markers as required.





(P33) (P34)