

**PLANNING PROPOSAL FOR
MIXED USE DEVELOPMENT**

42 – 46 PARRAMATTA ROAD, HOMEBUSH

***Assessment of Traffic, Transport and
Parking Implications***

February 2018
(Rev C)

Reference 17016

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1. INTRODUCTION

This report has been prepared to accompany a Planning Proposal to Planning and Environment NSW in relation to an approved mixed use development site at 42 – 46 Parramatta Road, Homebush (Figure 1).

Consent was granted for a development scheme for the site comprising 62 residential apartments and 362.3m² commercial floorspace with basement parking.

The Planning Proposal seeks to increase the permitted height to 80m and the FSR to 5:1. This proposal, which would increase the total yield by approximately 49 apartments.

The purpose of this report is to:

- * describe the site, the approved development and the envisaged Planning Proposal outcome
- * describe the road network serving the site, the traffic conditions and the available transport services
- * to provide the traffic and transport assessment required and in particular:
 - assess the potential traffic implications of the increased density of development
 - assess the adequacy of the envisaged parking provision
 - assess the envisaged access, internal circulation and servicing arrangements



2. PLANNING PROPOSAL

2.1 SITE, CONTEXT AND FORMER USE

The site (Figure 2) is Lot 2 in DP 518578 which occupies an 'L' shaped area of some 2,251.6m² with frontages to Parramatta Road and Station Street.

The site is relatively level, rising slightly towards the southern boundary, and the adjoining uses comprise residential dwellings to the south, a new medium density residential building along part of the northern side and to the west. The other uses in the surrounding area an industrial building comprise:

- * The older style residential flats buildings and single dwellings along Station Street
- * The mixed commercial, industrial and retail uses extending along Parramatta Road
- * The hotel located on the corner of Parramatta Road and Knight Street

The site, which was occupied by Bushs Meats for many years, is now cleared and largely vacant retaining one small building and a driveway on the Station Street frontage at the southern boundary.

2.2 APPROVED DEVELOPMENT

Consent (DA 2014/154) was granted to clear / excavate the site and construct two buildings above integrated basement levels with a total development outcome comprising:

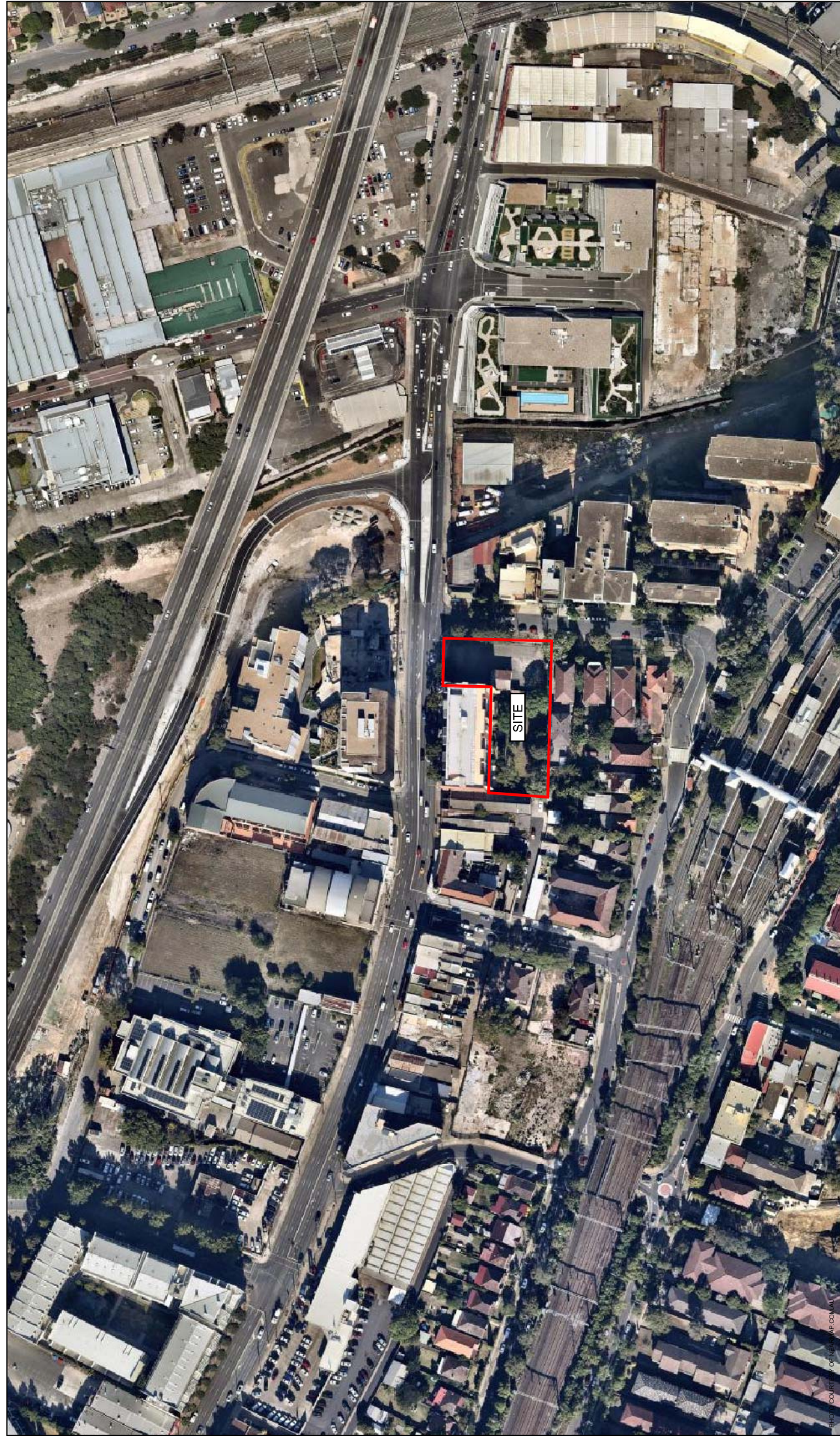
3 x one-bedroom apartments

41 x two-bedroom apartments

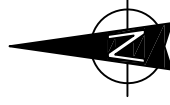
18 x three-bedroom apartments

Total 62 apartments

362.3m² commercial floorspace



LEGEND



SITE

FIG 2

A total of 103 parking spaces were proposed in basement levels with a combined ingress/egress driveway on the Station Street frontage.

Details of the approved development are provided on the plans prepared by Integrated Design Group which are reproduced in part in Appendix A.

2.3 ENVISAGED DEVELOPMENT

The Planning Proposal seeks to increase the permitted building height to 80m and the FSR to 5:1. The envisaged development outcome (which will be confirmed at DA Stage) with these provisions would be as follows:

15 x one-bedroom apartments
69 x two-bedroom apartments
27 x three-bedroom apartments
Total: 111 apartments
Commercial 457.96m²

It is envisaged that 134 parking spaces would be provided in the basement levels. Details of the envisaged development are provided in the plans prepared by Integrated Design Group which are reproduced in Appendix B.

3. TRANSPORT CIRCUMSTANCES

The site is very conveniently located in relation to public transport services being only some 100m to the north of Homebush Railway Station and 650m west of North Strathfield Railway Station. Services on the lines through these stations operate at 5 to 10 minute frequencies in peak periods and 10 to 15 minute frequencies at other times. The stations provide access to the Metropolitan Railway Network and beyond.

Local and regional bus services (Sydney Buses) operate along Parramatta Road, with bus stops located close to the site, and include:

- Route 408 - Flemington Station or Rookwood Cemetery to Burwood via Homebush and Strathfield
- Route 458 - Ryde to Burwood via Rhodes, Concord Hospital, North Strathfield and Strathfield
- Route 459 - Macquarie University to Strathfield via Macquarie Centre and Ryde
- Route 525 - Sydney Olympic Park and Parramatta to Burwood via Newington and Strathfield
- Route 526 - Sydney Olympic Park Wharf to Burwood via Newington and Strathfield

It is apparent that the site has excellent convenient access to existing high frequency public transport services. The planned future improvements to transport services include:

- Increased rail frequencies at Homebush, North Strathfield and Concord West railway stations
- A potential new bus service between Parramatta and Burwood via Parramatta Road

The Parramatta Road Urban Transformation Program identifies that the Parramatta Road corridor will accommodate 27,000 new dwellings and 50,000 new jobs with the Homebush precinct providing for more than a third of the population growth in the corridor with some 9,500 dwellings and some 12,900 new jobs.

The West Connex Motorway is one of the infrastructure projects identified to cater for the increased development. This project includes widening of the M4 Motorway (completed), construction of the M4 East, the M4/M5 link and the new M5 with the M4 East currently under construction and expected to be open in 2019.

The program identifies the Parramatta Light Rail project as providing improved transport and it identifies the development potential around the key transport nodes, including Strathfield and Homebush stations.

The plan also identifies improvements required to accommodate the new development in the corridor, including transport infrastructure and for the Homebush precinct, this includes:

- a new cycle link along Queen Street, Parramatta Road and Cooper Street to Strathfield railway station with longer term cycle links to and from Mason Park
- through site pedestrian links, including to Concord West railway station
- extension or duplication of right turn lane from Parramatta Road into George Street
- improvements at intersections along Pomeroy Street
- provision of traffic signals at the Cooper Street/Parramatta Road intersection
- extension of Pomeroy Street to Parramatta Road via Derowie Avenue with traffic signal at the Parramatta Road/Derowie Avenue intersection

An infrastructure schedule has been prepared providing cost estimates and identifying the responsibilities for implementing the improvement measures by the Councils, RMS, TfNSW and developers. These cost estimates have been used to determine a “contribution per dwelling” to fund the improvement measures in each precinct.

The Planning Proposal development will be consistent with the governments objectives and the planning principles of:

- improving the choice of transport for travel purposes
- moderating growth in the demand for travel by private motor vehicle and the distances travelled
- improving accessibility to employment and services by walking, cycling and public transport
- supporting efficient and viable public transport services

4. ROAD NETWORK AND TRAFFIC CONDITIONS

4.1 ROAD NETWORK

The road network serving the site (Figure 3) comprise:

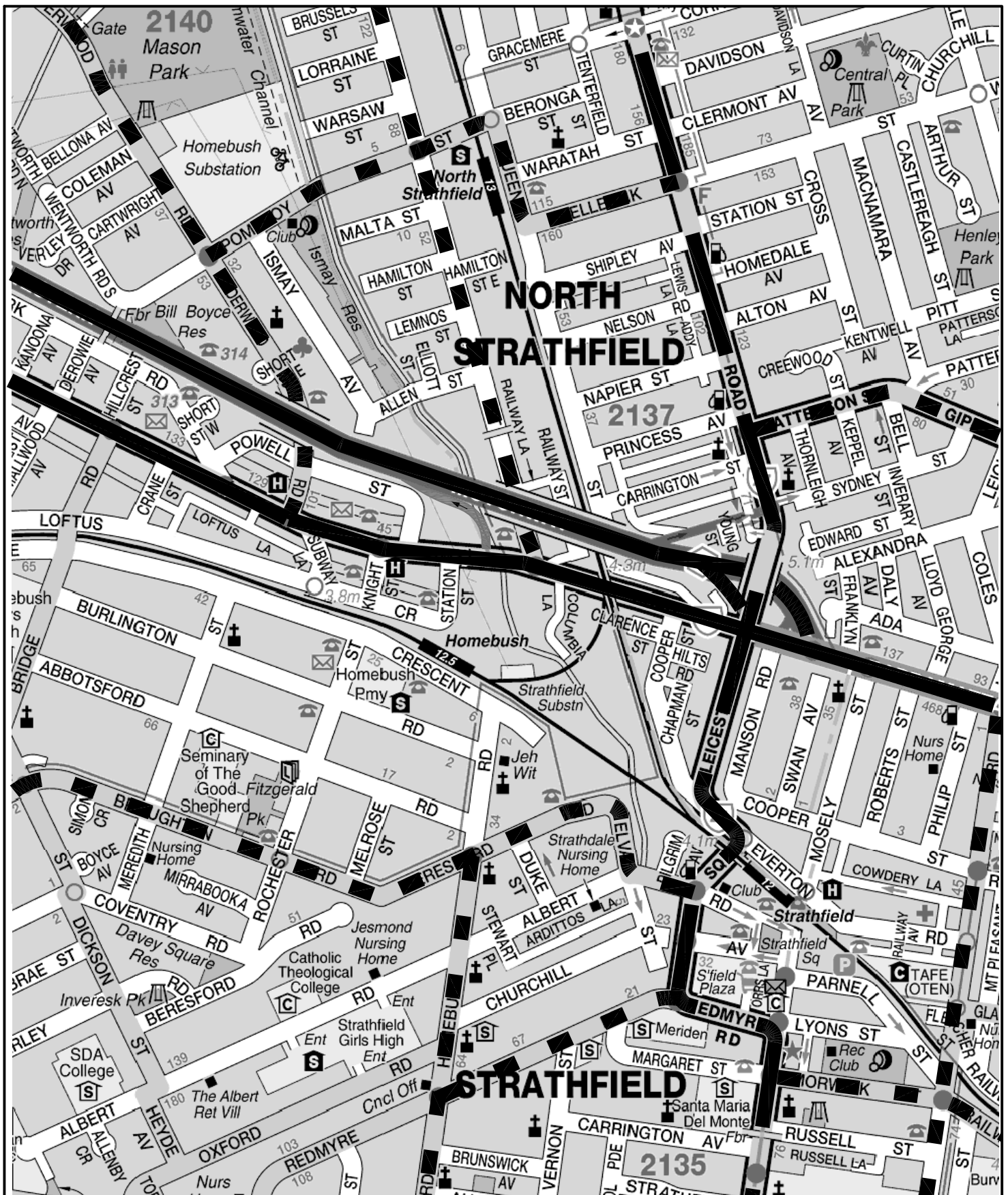
- * *M4 Motorway* – a State Road and major arterial route linking between the City and Penrith
- * *Parramatta Road* – a State Road and major arterial route
- * *Concord Road / Leicester Avenue / Redmore Road / The Boulevarde* – a State Road and sub-arterial route
- * *Homebush Road / Broughton Road* – Regional Roads and collector road routes
- * Various major and minor collector road routes

Station Street, Loftus Crescent and Knight Street are essentially local access roads under the care and control of Strathfield Council although serving a minor collector road function to some extent in linking between Parramatta Road and The Crescent through the railway underpass.




4.2 TRAFFIC CONTROLS

The existing traffic and parking controls in the vicinity of the site (Figure 4) comprise:

- * the traffic signals along Parramatta Road including the Knight Street and Underwood Road intersections as well as the George Street intersection which are currently being modified to incorporated a new road intersecting from the south (details overleaf)
- * the various right-turn movement restrictions including the restrictions on the turns from Parramatta Road to Knight Street and to Powell Street



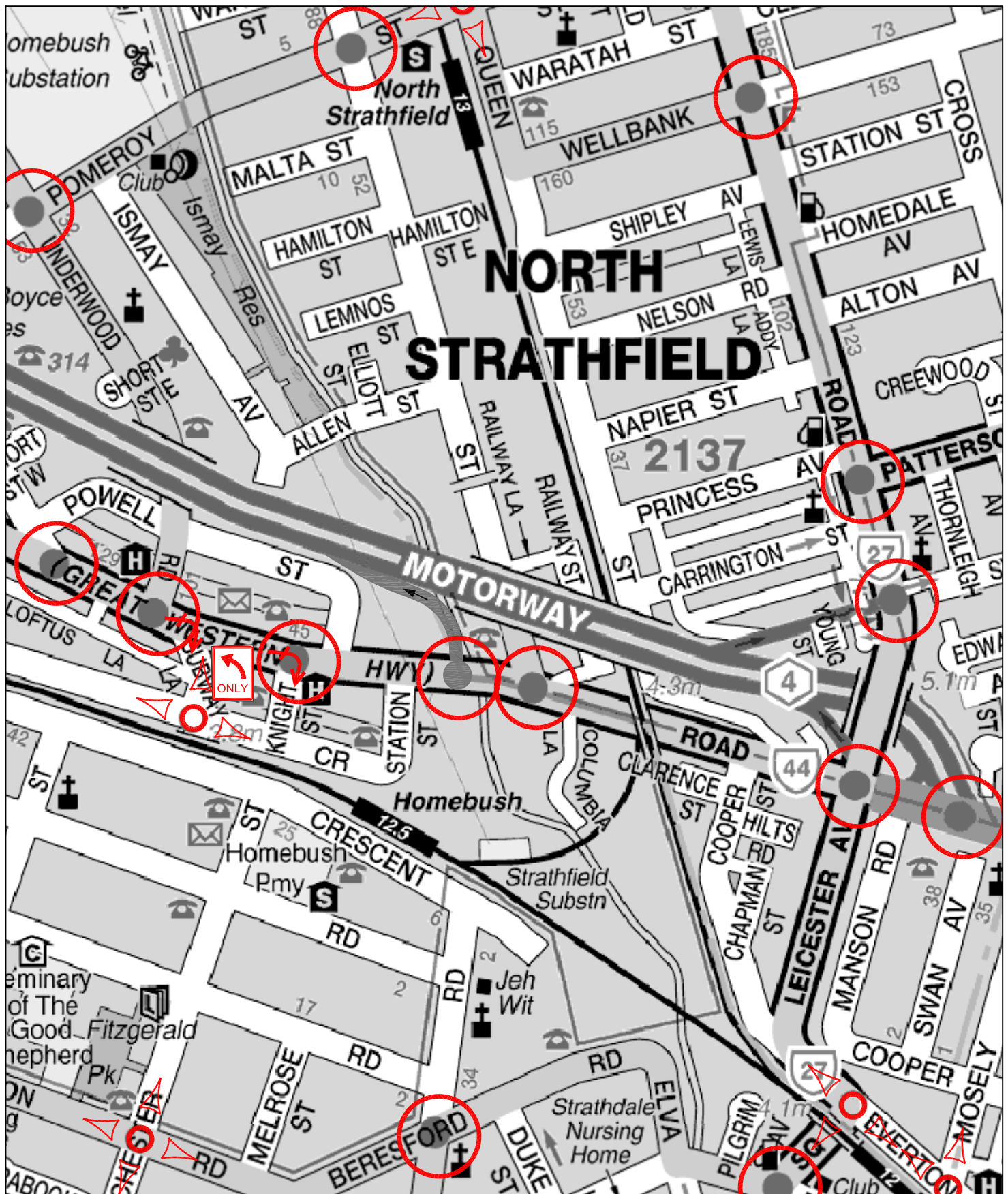
LEGEND

-  ARTERIAL
-  SUB-ARTERIAL
-  COLLECTOR



ROAD NETWORK

FIG 3



- * the 50 kmph speed restriction on the local street system and 60 kmph on Parramatta Road
- * the roundabouts on the Loftus Crescent and Knight Street and Subway Lane intersections
- * the 1 HOUR PERIOD restrictions in Parramatta Road to the west of Knight Street
- * the 2P SPECIAL EVENT parking restrictions on the local road system

4.3 TRAFFIC CONDITIONS

An indication of the traffic conditions on the roads in the vicinity is provided by data¹ published by Roads and Maritime Services and traffic surveys undertaken for this study. The RMS data which is expressed in terms of Annual Average Daily Traffic (AADT) is summarised in the following:

	AADT
Parramatta Road	40,139

Traffic surveys undertaken at the access intersections during the morning and afternoon peak traffic periods are provided in Appendix C and summarised in the following:

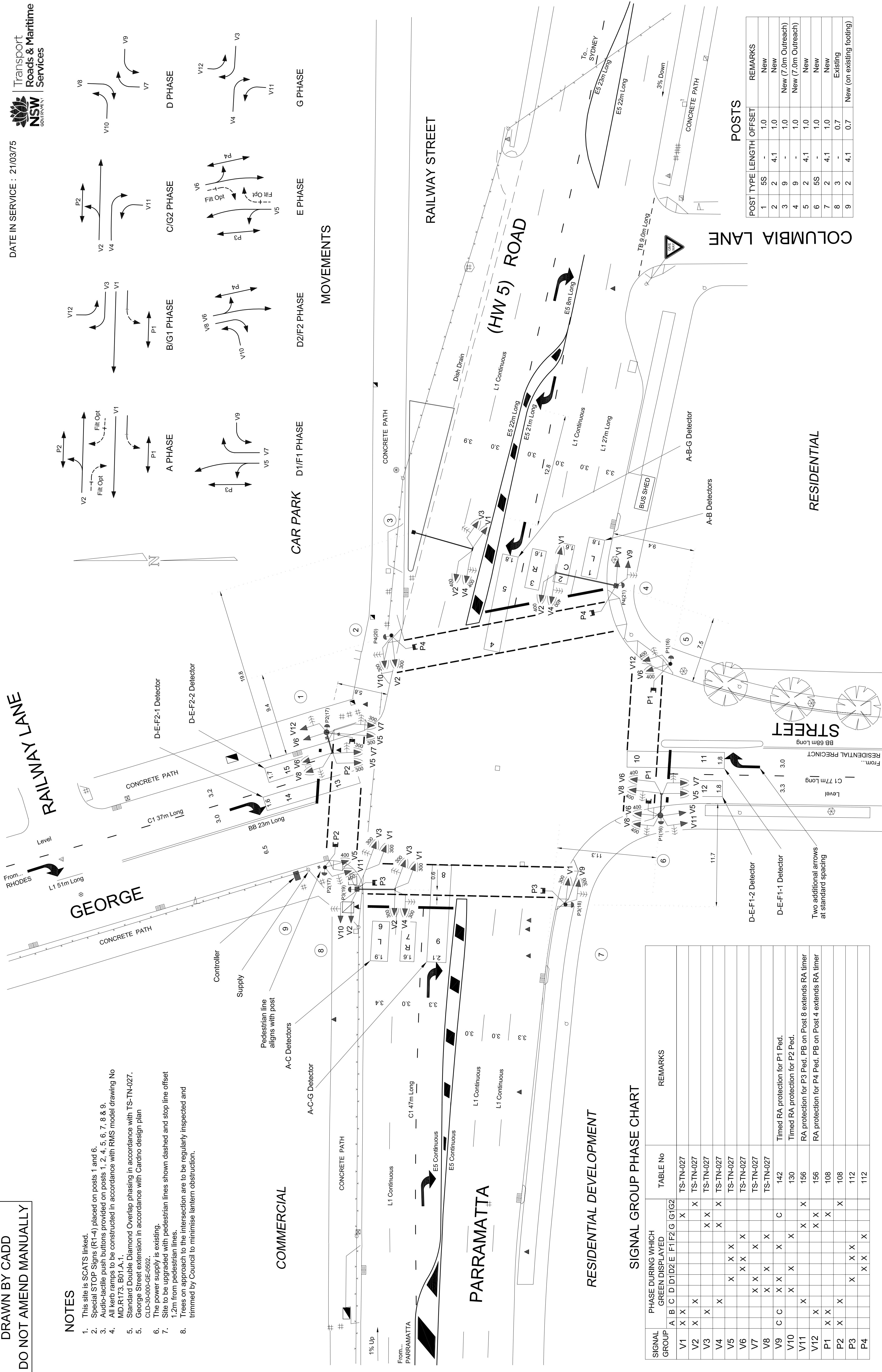
¹ *Traffic Volumes and Supplementary Data*
Roads and Traffic Authority

DRAWN BY CADD
DO NOT AMEND MANUALLY

NOTES

1. This site is SCATS linked.
2. Special STOP Signs (R1-4) placed on posts 1 and 6.
3. Audio-tactile push buttons provided on posts 1, 2, 4, 5, 6, 7, 8 & 9.
4. All kerb ramps to be constructed in accordance with RMS model drawing No MD.R173. B01.A.1.
5. Standard Double Diamond Overlap phasing in accordance with TS-TN-027.
6. George Street extension in accordance with Cardno design plan CLD-30-000-GE-0502.
7. The power supply is existing.
8. Site to be upgraded with pedestrian lines shown dashed and stop line offset 1.2m from pedestrian lines.
9. Trees on approach to the intersection are to be regularly inspected and trimmed by Council to minimise lantern obstruction.

COMMERCIAL



SIGNAL GROUP PHASE CHART

SIGNAL GROUP	PHASE DURING WHICH GREEN DISPLAYED							REMARKS
	A	B	C	D	D1/D2	E	F1/F2/G	
V1	X	X					X	TS-TN-027
V2	X	X					X	TS-TN-027
V3	X						X	TS-TN-027
V4		X					X	TS-TN-027
V5			X	X	X			TS-TN-027
V6			X	X	X			TS-TN-027
V7		X	X	X				TS-TN-027
V8		X	X	X				TS-TN-027
V9	C	C	X	X	X		C	142
V10		X	X	X				130
V11		X						156
V12	X							156
P1	X	X						108
P2	X	X						108
P3			X	X	X			112
P4				X	X	X		112

POSTS

POST	TYPE	LENGTH	OFFSET	REMARKS
1	5S	-	1.0	New
2	2	4.1	1.0	New
3	9	-	1.0	New (7.0m Outreach)
4	9	-	1.0	New (7.0m Outreach)
5	2	4.1	1.0	New
6	5S	-	1.0	New
7	2	4.1	1.0	New
8	3	-	0.7	Existing
9	2	4.1	0.7	New (on existing footing)

	AM	PM
Parramatta Road		
Eastbound	913	1,083
Left Turn	264	184
Westbound	1,258	1,119
Right Turn	356	197
Underwood Road		
Left Turn	120	188
Right Turn	155	399
Parramatta Road		
Eastbound Left Turn	25	7
Powell Street		
Left Turn	24	68

The operational performance of the Underwood Road intersection has been modelled using SIDRA and the results are summarised in the following while the criteria for interpreting SIDRA output are reproduced overleaf:

AM		PM	
LOS	AVD	LOS	AVD
B	14.9s	B	15.0s

Traffic conditions along Parramatta Road are largely influenced by the circumstances at the busy M4 and Concord Road/Leicester Avenue intersections however peak period operations at the vicinity of the site, including the Underwood Road and Knight Street intersections, are efficiently controlled by SCATS traffic signal coordination. It is apparent that the intersections in the vicinity are operating satisfactory with some reserve capacity.

Criteria for Interpreting Results of SIDRA Analysis

1. Level of Service (LOS)

LOS	Traffic Signals and Roundabouts	Give Way and Stop Signs
'A'	Good	Good
'B'	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity
'C'	Satisfactory	Satisfactory but accident study required
'D'	Operating near capacity	Near capacity and Accident Study required
'E'	At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode	At capacity and requires other control mode
'F'	Unsatisfactory and requires additional capacity	Unsatisfactory and requires other control mode

2. Average Vehicle Delay (AVD)

The AVD provides a measure of the operational performance of an intersection as indicated on the table below, which relates AVD to LOS. The AVD's listed in the table should be taken as a guide only as longer delays could be tolerated in some locations (ie inner city conditions) and on some roads (ie minor side street intersecting with a major arterial route).

Level of Service	Average Delay per Vehicle (secs/veh)	Traffic Signals, Roundabouts	Give Way and Stop Signs
A	Less than 14	Good operation	Good operation
B	15 to 28	Good with acceptable delays and spare capacity	Acceptable delays and spare capacity
C	29 to 42	Satisfactory	Satisfactory but accident study required
D	43 to 56	Operating near capacity	Near capacity and accident study required
E	57 to 70	At capacity; at signals incidents will cause excessive delays. Roundabouts require other control mode	At capacity and requires other control mode

3. Degree of Saturation (DS)

The DS is another measure of the operational performance of individual intersections.

For intersections controlled by **traffic signals**¹ both queue length and delay increase rapidly as DS approaches 1, and it is usual to attempt to keep DS to less than 0.9. Values of DS in the order of 0.7 generally represent satisfactory intersection operation. When DS exceeds 0.9 queues can be anticipated.

For intersections controlled by a **roundabout or GIVE WAY or STOP signs**, satisfactory intersection operation is indicated by a DS of 0.8 or less.

¹ the values of DS for intersections under traffic signal control are only valid for cycle length of 120 secs

The recent completion of the M4 widening works has been accompanied by the imposition of a toll resulting in some initial diversion of vehicles from the M4 to Parramatta Road. The recent traffic survey results in the proceeding section have regard for this circumstance however it is expected that the number of diverting vehicles will reduce overtime as drivers succumb to the travel time advantages on the West Connex route.

5. TRAFFIC

The RMS traffic generation criteria in relation to high density residential apartments have been updated with Technical Direction TDT 2013-04 which specifies traffic generation rates for sites with good public transport accessibility of 0.19 vtpH per unit in the morning peak and 0.15 vtpH in the afternoon.

The assessed traffic generation of the approved development was as follows:

62 apartments	12 vtpH in the AM
	10 vtpH in the PM
Commercial 362m ² @ 2 vtpH per 100m ²	8 vtpH
Total:	20 vtpH AM, 18 vtpH PM

The development outcome under the Planning Proposal is assessed to have the following projected traffic generation:

111 apartments	
AM @ 0.19	21 vtpH
PM @ 0.15	17 vtpH
Commercial 458m ² 5 parking spaces @ 0.40 vtpH/space	2 vtpH*
Total: AM 23 vtpH, PM 19 vtpH	

** Due to the "constrained" parking provision the superseded RMS rate of 2vtpH/100m² is not appropriate. RMS Study for constrained parking shows 0.32vtpH per space.*

The projected distribution of these access movements during the peak periods is as follows:

	AM		PM	
	IN	OUT	IN	OUT
Apartments	3	18	15	2
Commercial	2	-	-	2
Total:	23 vtpH		19 vtpH	

Thus, the projected total traffic movements resultant to the envisaged development under the Planning Proposal in the AM and PM peak traffic periods will in reality be very little to that assessed for the previously approved development.

It is apparent however that the relatively minor increase in traffic generation over the previously approved development (i.e. some 1-3 vtph) will have no perceptible adverse traffic impact on the access road system.

6. PARKING

The applicable minimum parking provision in relation to the proposed development is as follows:

One-bedroom apartments	0.5 space per apartment
Two-bedroom apartments	0.9 space per apartment
Three-bedroom apartment	1.2 spaces per apartment
Visitors	1 space per 5 apartments
Commercial	1space per 100m ²

Application of the criteria to the envisaged development indicates a provision of:

15 x one bedroom	7.5 spaces
69 x two bedroom	62.1 spaces
27 x three bedroom	32.4 spaces
Visitors (111 apartments)	22.2 spaces
Commercial 458m ² @ 1 per 100m ²	5 spaces
Total	132 spaces

It is envisaged that some 134 parking spaces would be provided with 105 spaces for residents, 22 spaces for visitors and 5 commercial spaces with an appropriate quantum of accessible spaces and bicycle parking.

7. ACCESS, INTERNAL CIRCULATION AND SERVICING

The vehicle access, internal circulation and servicing arrangements will reflect that contained in the approved development scheme.

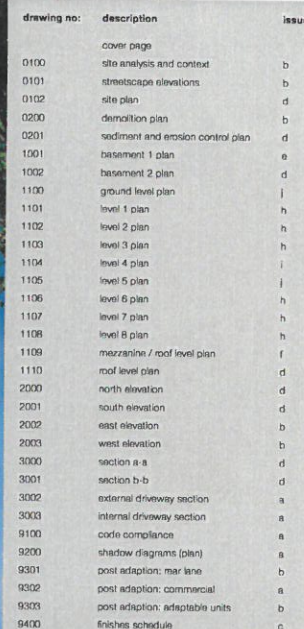
8. CONCLUSION

Assessment of the envisaged development under the Planning Proposal outcome indicates that:

- * the traffic generation outcome will be very little more than that of the approved development scheme
- * there will not be any unsatisfactory traffic implications
- * the envisaged parking provision will be adequate and appropriate
- * the envisaged vehicle access, internal circulation and servicing arrangements will remain suitable and appropriate
- * the envisaged development will be consistent with the Governments objectives and the planning principles of:
 - improving accessibility to employment and services by public transport, walking and cycling
 - moderating the growth in demand for travel by private motor vehicle and the distance travelled
 - supporting efficient and viable public transport services
 - improving the choice of transport for travel purposes

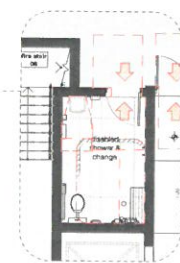
APPENDIX A

APPROVED PLANS

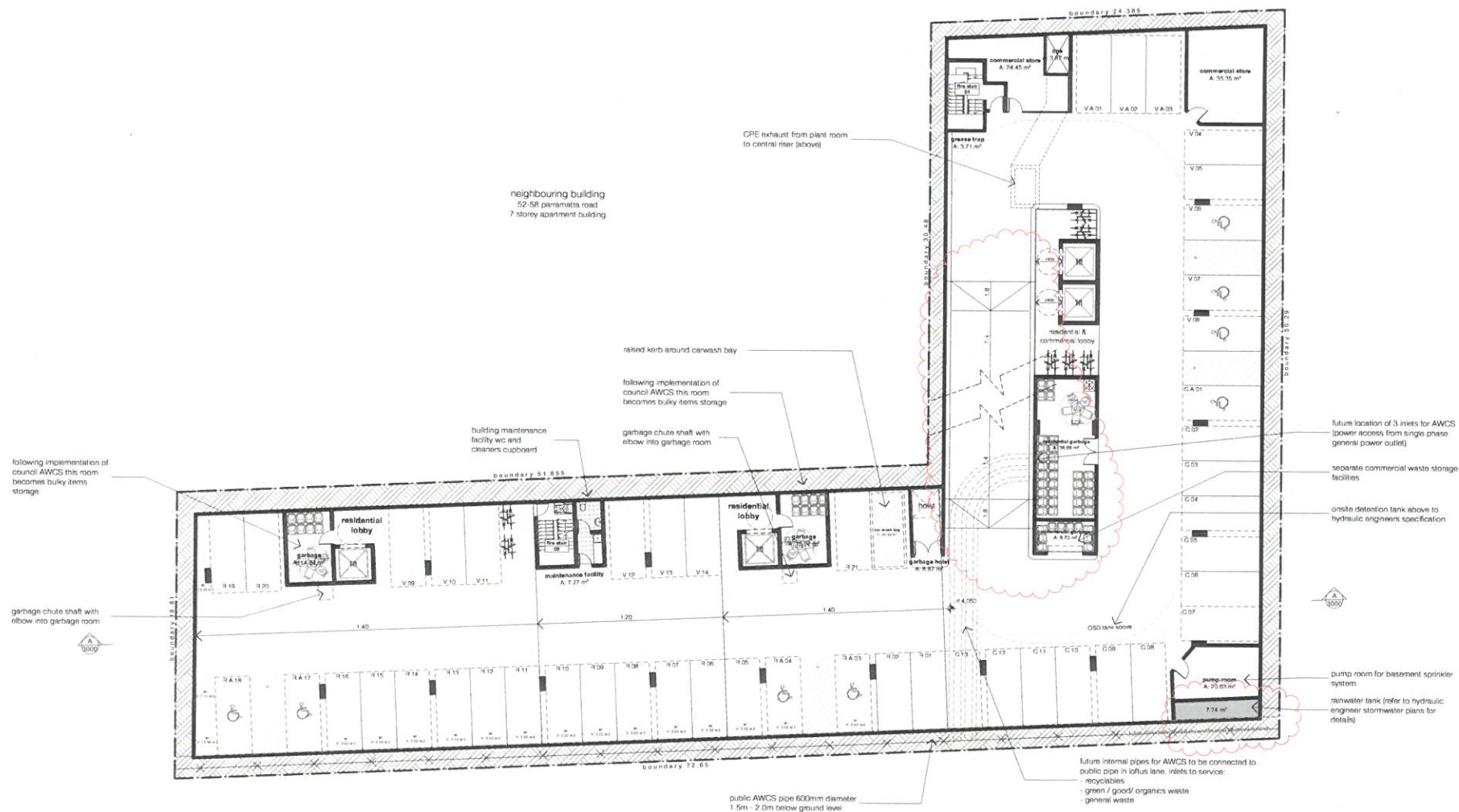


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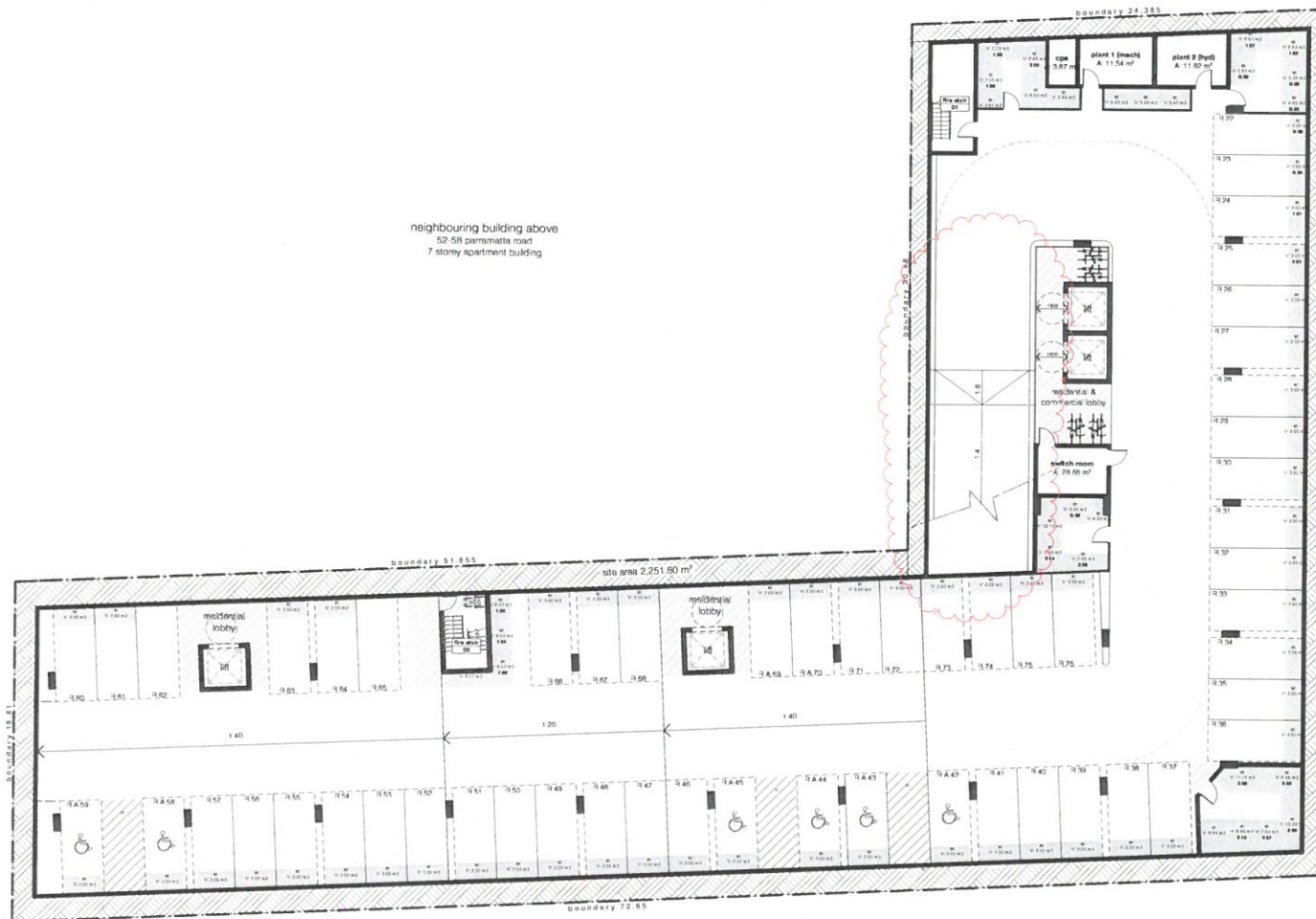
parramatta road

[illegible]

```
preliminary not for construction
```



neighbouring building above
52-58 parramatta road
7 storey apartment building



integrated DESIGN group
architects bathurst | sydney

Fathoms & Inyris

rw	mechanism
wh	overweight
p	plenty
ml	multi-generator
m	manipulator
ld	solid state drive
sh	spring handle
ss	steelhead, steel ss
sl	slown
shw	showers
t	tubs
f	twelf m

wt	water (noun)
wm	watching mammals
vp	wind pipe
us	under twentieth years
wo	walk down
wm	water meter

1. figured dimensions take precedence
2. contractors to check and verify all
3. all materials and workmanship to be in accordance with instructions local regulations and S
4. conflicting information to be brought to the attention of the architect proceeding with any work.

is over scaled drawings.

levels datum and dimensions on site

is in accordance with current written min.

AA codes

it to notice of the architect and clarification

	revision
	15/11/13
	18/11/13
	02/07/14
features	19/03/14
	06/06/15
thought before	

b	issue to consultants
c	issue to council for pre DA
d	issue to client for approval
e	DA issue
f	revised plans for DA (amended v

nicola rampo

basement 2 pl
new residential apartments
42-46 pennamatta road HOA
project m: A.B.
drawn by: ED | M
checked by:
scale: 1/2"

new residential apartments for aj bush & sons pty ltd
42-46 parramatta road HOMERUSH NSW

project mfr:
drawn by:
checked by:
scan:

AJB13036
ED | MB | BS
AE | ST
1200 82



issue
E

general notes

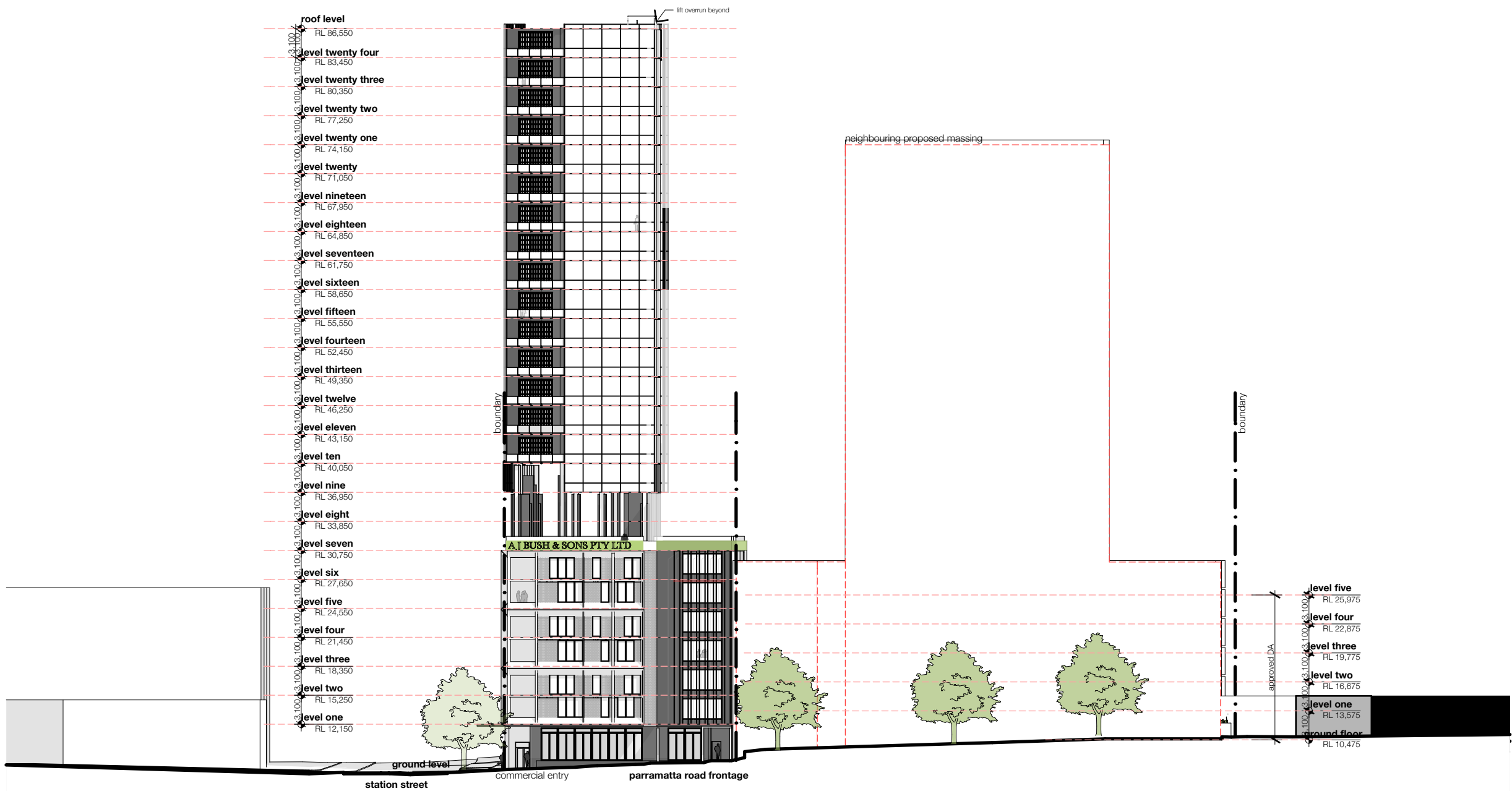
1. Square dimensions take precedence over scaled drawings.
2. Contractors to check and verify all levels, datum and dimensions on site.
3. All materials and workmanship to be in accordance with current written manufacturers instructions, local regulations and SAA codes.
4. Conflicting information to be brought to notice of the architect and clarification sought before proceeding with any works.

reduction)

15/11/13	b	issue to consultants
19/11/13	c	issue to council for pre DA
02/07/14	e	issue to client for approval
19/09/14	d	DA issue
06/06/15	a	revised plans for DA (amended vehicle ramps)

APPENDIX B

CONCEPT PLANS



north elevation

new residential apartments
AJB13036 | aj bush & sons pty ltd | 42-46 parramatta road HOMEBUSH NSW

all drawings are not for construction and are subject to further design development, consultant input, council and legislative requirements.

integratedDESIGNgroup
architects | bathurst penrith sydney

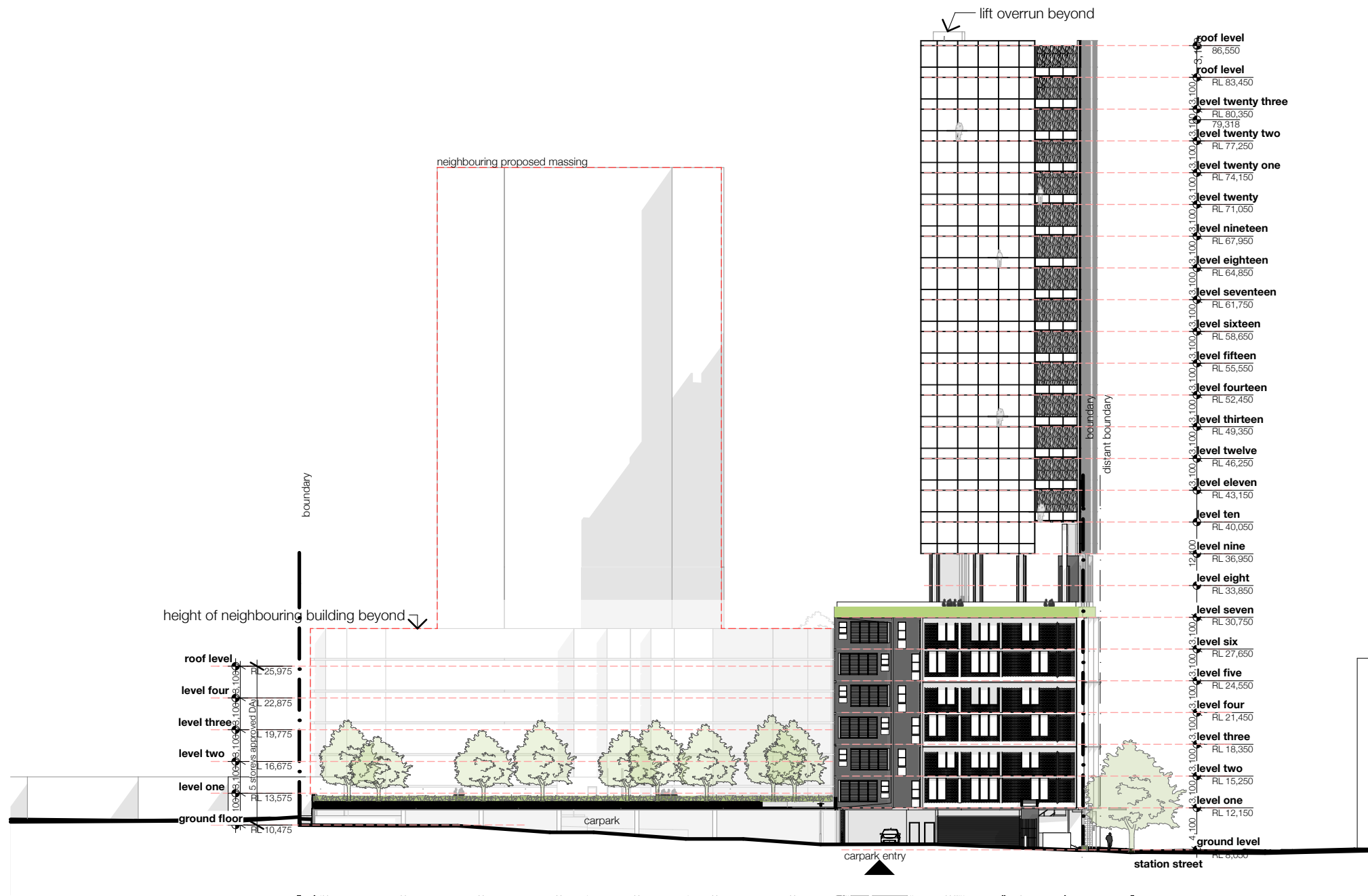
copyright integratedDESIGNgroup p/l abn 84 115 006 329
nominated architects tony mcburney reg. no. 5273 | simon thorne reg. no. 7093



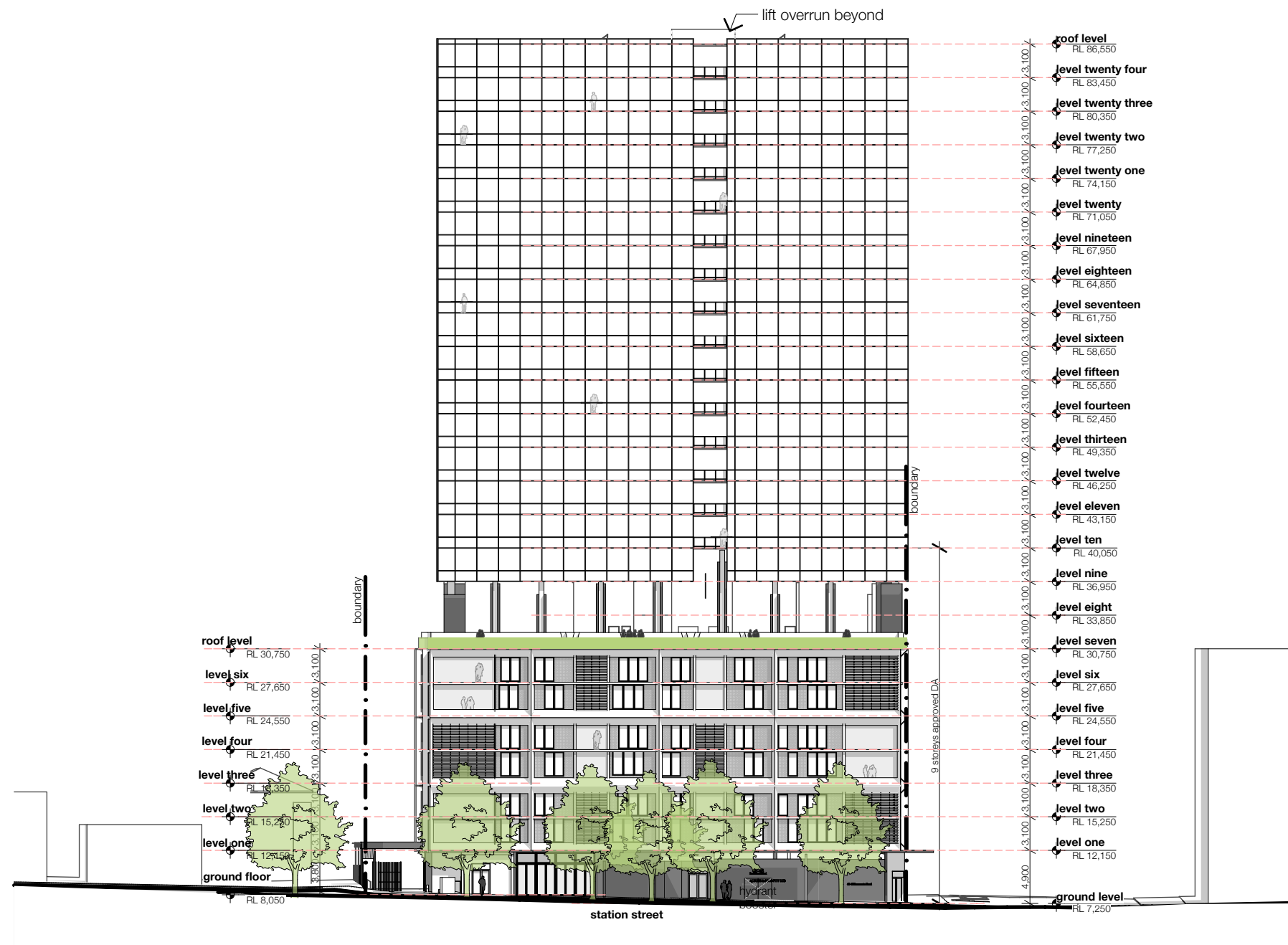
SK
2000

issue
A

true north 1:500 @ a3 3/11/17



south elevation



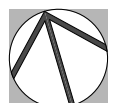
east elevation

new residential apartments
 AJB13036 | aj bush & sons pty ltd | 42-46 parramatta road HOMEBUSH NSW

all drawings are not for construction and are subject to further design development, consultant input, council and legislative requirements.

integratedDESIGNgroup
 architects | bathurst penrith sydney

copyright integratedDESIGNgroup p/l abn 84 115 006 329
 nominated architects tony mcburney reg. no. 5273 | simon thorne reg. no. 7093



true north 1:500 @ a3



issue
 A
 current issue
 3/11/17

APPENDIX C

TRAFFIC SURVEY RESULTS

Location Underwood Road Duration 0700 - 0900
Parramatta Road 1600 - 1800
- -
Parramatta Road Day/Date Tuesday, 19 September 2017
 Suburb HOMEBUSH Weather -

All Vehicles Time Per 15 Mins	NORTH <i>Underwood Road</i>				EAST <i>Parramatta Road</i>				SOUTH <i>-</i>				WEST <i>Parramatta Road</i>				TOTAL
	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	
7:00 - 7:15	20		36	56		245	79	324				0	58	235		293	673
7:15 - 7:30	33		40	73		284	85	369				0	54	230		284	726
7:30 - 7:45	35		45	80		294	84	378				0	50	188		238	696
7:45 - 8:00	41		37	78		282	85	367				0	59	206		265	710
8:00 - 8:15	34		30	64		332	89	421				0	64	199		263	748
8:15 - 8:30	32		43	75		309	89	398				0	67	239		306	779
8:30 - 8:45	26		43	69		313	92	405				0	71	218		289	763
8:45 - 9:00	28		39	67		304	86	390				0	62	257		319	776
Period End	249	0	313	562	0	2363	689	3052	0	0	0	0	485	1772	0	2257	5871
16:00 - 16:15	34		92	126		266	49	315				0	47	230		277	718
16:15 - 16:30	42		92	134		254	46	300				0	31	240		271	705
16:30 - 16:45	47		91	138		251	48	299				0	41	230		271	708
16:45 - 17:00	43		98	141		221	55	276				0	38	296		334	751
17:00 - 17:15	47		91	138		295	51	346				0	48	262		310	794
17:15 - 17:30	52		118	170		302	49	351				0	50	249		299	820
17:30 - 17:45	46		92	138		301	42	343				0	48	276		324	805
17:45 - 18:00	63		67	130		242	30	272				0	54	243		297	699
Period End	374	0	741	1115	0	2132	370	2502	0	0	0	0	357	2026	0	2383	6000

Traffic Information Specialists

ABN: 42 613 389 923

Email info@trafficinfospecialist.com.au

All Vehicles Time Per Hour	NORTH <i>Underwood Road</i>				EAST <i>Parramatta Road</i>				SOUTH -				WEST <i>Parramatta Road</i>			
	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL
7:00 - 8:00	129		158	287		1105	333	1438				0	221	859		1080
7:15 - 8:15	143		152	295		1192	343	1535				0	227	823		1050
7:30 - 8:30	142		155	297		1217	347	1564				0	240	832		1072
7:45 - 8:45	133		153	286		1236	355	1591				0	261	862		1123
8:00 - 9:00	120		155	275		1258	356	1614				0	264	913		1177
Period End	667	0	773	1440	0	6008	1734	7742	0	0	0	0	1213	4289	0	5502
16:00 - 17:00	166		373	539		992	198	1190				0	157	996		1153
16:15 - 17:15	179		372	551		1021	200	1221				0	158	1028		1186
16:30 - 17:30	189		398	587		1069	203	1272				0	177	1037		1214
16:45 - 17:45	188		399	587		1119	197	1316				0	184	1083		1267
17:00 - 18:00	208		368	576		1140	172	1312				0	200	1030		1230
Period End	930	0	1910	2840	0	5341	970	6311	0	0	0	0	876	5174	0	6050
																15201

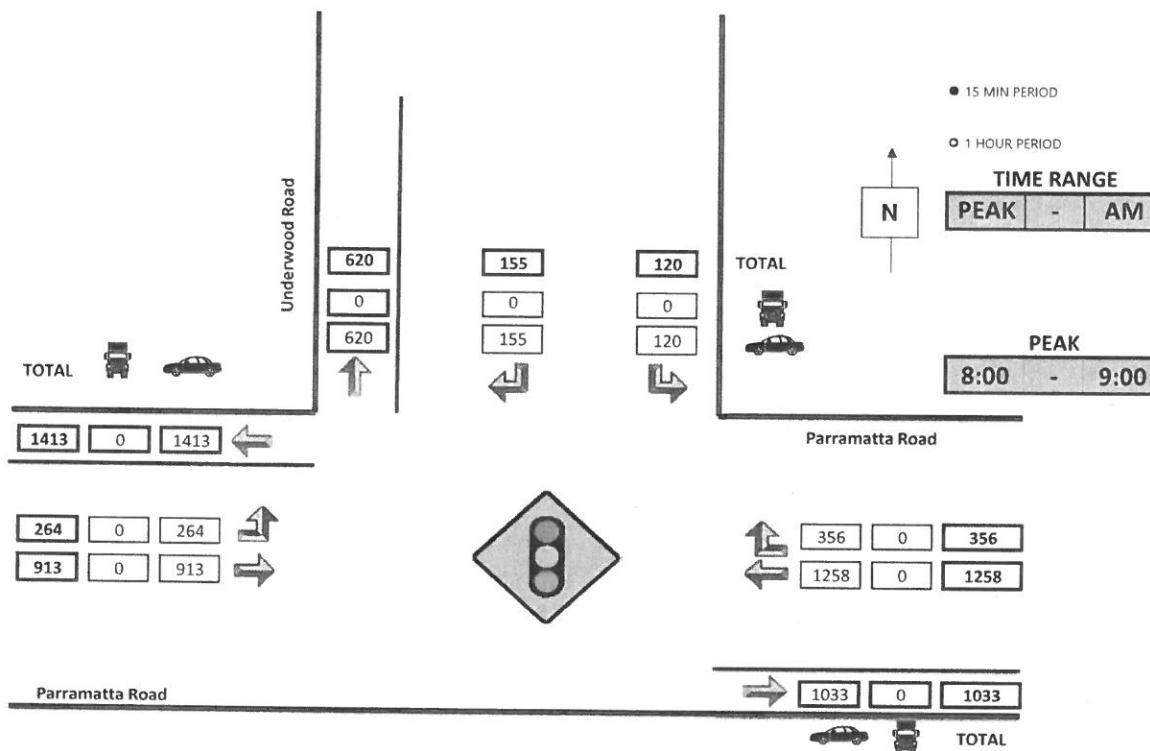
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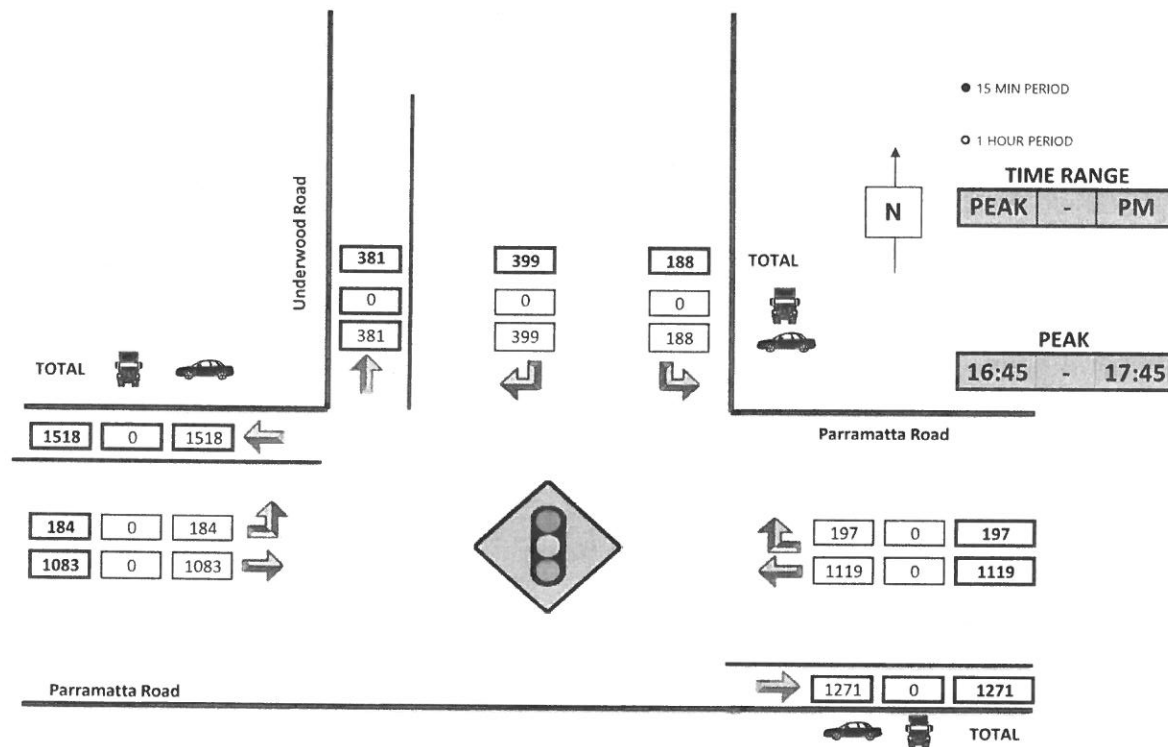
Location Underwood Road
Parramatta Road
Parramatta Road
 Suburb HOMEBUSH

Duration 0700 - 0900
1600 - 1800
 Day/Date Tuesday, 19 September 2017
 Weather -



Location Underwood Road
Parramatta Road
Parramatta Road
 Suburb HOMEBUSH

Duration 0700 - 0900
1600 - 1800
 Day/Date Tuesday, 19 September 2017
 Weather -



Location Powell Street Duration 0700 - 0900
Parramatta Road 1600 - 1800
- -
Parramatta Road Day/Date Tuesday, 19 September 2017
 Suburb HOMEBUSH Weather -

All Vehicles Time Per 15 Mins	NORTH Powell Street				EAST Parramatta Road				SOUTH -				WEST Parramatta Road				TOTAL
	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	
7:00 - 7:15	4		0	4			0	0				0	4			4	8
7:15 - 7:30	5		0	5			0	0				0	1			1	6
7:30 - 7:45	4		0	4			0	0				0	2			2	6
7:45 - 8:00	5		0	5			0	0				0	4			4	9
8:00 - 8:15	4		0	4			1	1				0	6			6	11
8:15 - 8:30	10		0	10			0	0				0	4			4	14
8:30 - 8:45	5		0	5			0	0				0	8			8	13
8:45 - 9:00	5		0	5			0	0				0	7			7	12
Period End	42	0	0	42	0	0	1	1	0	0	0	0	36	0	0	36	79
16:00 - 16:15	18		0	18			0	0				0	0			0	18
16:15 - 16:30	12		0	12			0	0				0	2			2	14
16:30 - 16:45	12		0	12			0	0				0	0			0	12
16:45 - 17:00	14		0	14			0	0				0	1			1	15
17:00 - 17:15	23		0	23			0	0				0	1			1	24
17:15 - 17:30	20		0	20			0	0				0	2			2	22
17:30 - 17:45	11		0	11			0	0				0	3			3	14
17:45 - 18:00	9		1	10			0	0				0	1			1	11
Period End	119	0	1	120	0	0	0	0	0	0	0	0	10	0	0	10	130

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All Vehicles Time Per Hour	NORTH				EAST				SOUTH				WEST				TOTAL
	Powell Street				Parramatta Road				-				Parramatta Road				
	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	L	T	R	TOTAL	
7:00 - 8:00	18		0	18			0	0				0	11			11	29
7:15 - 8:15	18		0	18			1	1				0	13			13	32
7:30 - 8:30	23		0	23			1	1				0	16			16	40
7:45 - 8:45	24		0	24			1	1				0	22			22	47
8:00 - 9:00	24		0	24			1	1				0	25			25	50
Period End	107	0	0	107	0	0	4	4	0	0	0	0	87	0	0	87	198
16:00 - 17:00	56		0	56			0	0				0	3			3	59
16:15 - 17:15	61		0	61			0	0				0	4			4	65
16:30 - 17:30	69		0	69			0	0				0	4			4	73
16:45 - 17:45	68		0	68			0	0				0	7			7	75
17:00 - 18:00	63		1	64			0	0				0	7			7	71
Period End	317	0	1	318	0	0	0	0	0	0	0	0	25	0	0	25	343

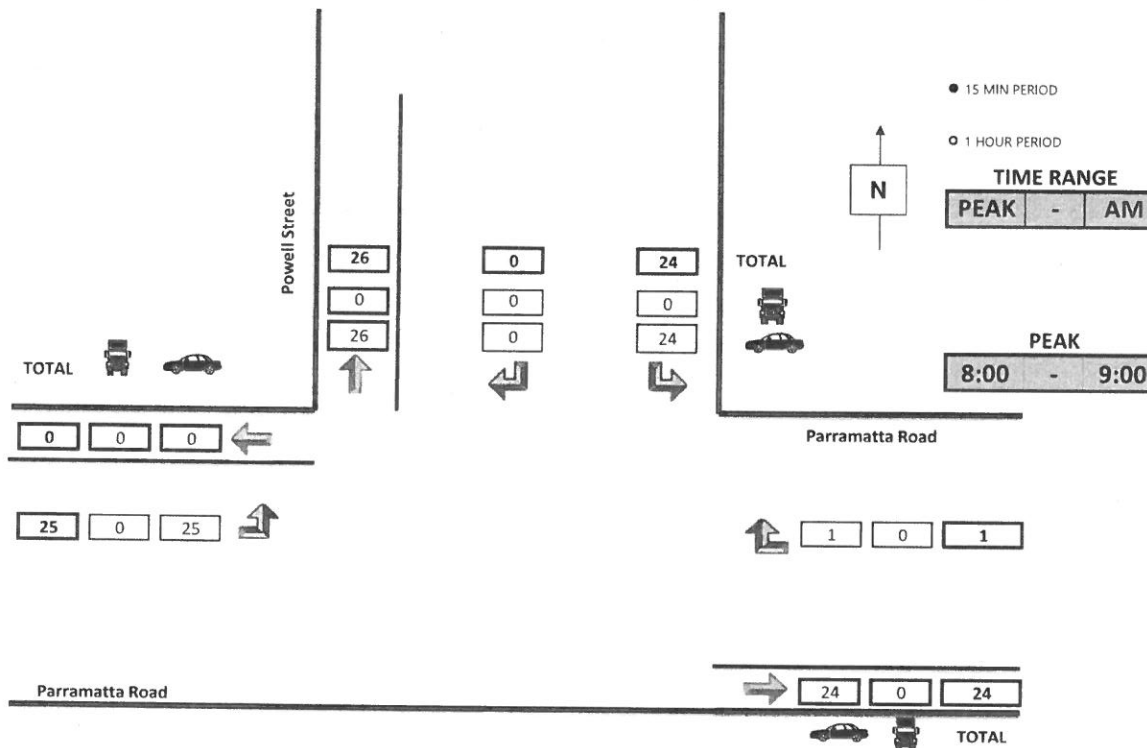
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Location Powell Street
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