

Proposed Residential Development at 52 Golf Road, Oakleigh South

Prepared for Golf Road Project Development Pty Ltd

February, 2020 G25977R-03A



52 Golf Road, Oakleigh South: Proposed Residential Development

Traffic Engineering Assessment

Proposed Residential Development at 52 Golf Road, Oakleigh South

Document Control

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52 Golf Road, Oakleigh South: Proposed Residential Development

1 Introduction

Traffix Group has been engaged by Golf Road Project Development Pty Ltd to prepare a traffic engineering assessment for a proposed residential development at 52 golf road, Oakleigh south.

This report provides a detailed traffic engineering assessment of the parking and traffic issues associated with the proposed development.

2 Proposal

The proposal is for a medium density residential development comprising 90 townhouses. A development summary is provided as follows:

Table 1: Development Summary

Use	Size/No.	Car Parking Allocation	Resultant Car Parking Rate
Two-bedroom Townhouse	20	20	1 car space per dwelling
Three-bedroom Townhouse	18	36	2 car spaces per dwelling
Four-bedroom Townhouse	52	104	2 car spaces per dwelling
Subtotal	90	160	1.78 spaces per dwelling
Visitor Car Parking	90 dwellings	12	0.13 spaces per dwellings
Total		172	-

Vehicle access to the internal road network will be provided via a 5.8m crossover to Golf Road located at the approximate mid-point along the site's frontage to Golf Road. Eight dwellings located along the south boundary of the site will have direct vehicle access to Beryl Avenue, and a further two dwellings will have direct vehicle access to Bakers Road, along the eastern boundary.

Post development, a total of 19 on-street car spaces will be maintained along the site's combined frontages (i.e. net loss of 10 spaces).

A copy of the development plans prepared by Plus Architecture (dated 31st January, 2020) is attached at Appendix A to this report.



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3 Existing Conditions

3.1 Subject Site

The subject site is located on the northeast corner of Golf Road and Beryl Avenue in Oakleigh South. A locality plan, aerial photograph and photograph of the site's frontages are provided at Figure 1 to Figure 5, respectively.

The site is irregular in shape, is currently vacant with a total area of approximately 18,300m². The site has frontages to Golf Road, Beryl Avenue and Bakers Road of 63.8m, 169.8m and 42.7m respectively.

Vehicle access to the subject site is currently provided via a 3.0m crossover to Beryl Avenue and 4.6m wide crossover to Bakers Road.

The site is located within a General Residential Zone – Schedule 1 (GRZ1) under the Planning Scheme as presented at Figure 6. The site is also subject to Development Plan Overlay – Schedule 5 (DPO5). Land surrounding the site is predominantly residential.

The subject site is located within the Principal Public Transport Network Area under the *Principal Public Transport Network Area Maps*.

Significant nearby land uses and activity centres are detailed below:

- Bright Beginnings Child Care Centre located approximately 50m walking distance southwest of the site,
- South Oakleigh College, located approximately 150m walking distance southeast of the site,
- Oakleigh South Primary School, located approximately 650m walking distance southeast of the site, and
- Olympic Ice Skating Centre, located approximately 800m walking distance southeast of the site.



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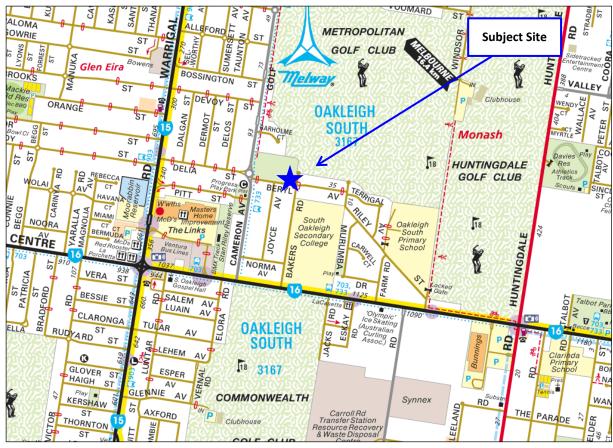


Figure 1: Locality Map

Reproduced with Permission of Melway Publishing Pty Ltd



52 Golf Road, Oakleigh South: Proposed Residential Development



Figure 2: Aerial Photograph

Source: www.nearmap.com



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Figure 3: Site Frontage to Golf Road



Figure 4: Site Frontage to Beryl Avenue



Figure 5: Site Frontage to Bakers Road



52 Golf Road, Oakleigh South: Proposed Residential Development



Figure 6: Land Use Zoning Map



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3.2 Road Network

Golf Road is a Council collector road, and is aligned in a north-south direction between Beryl Avenue in the south (where it continues as Cameron Avenue) and North Road to the north.

In vicinity of the site, Golf Road has a 7.8m wide carriageway accommodating a single traffic lane in both directions. Indented kerbside parking is provided to the north of the site along the west side.

The default urban speed limit of 50km/h applies to Golf Road.

Beryl Avenue is a local road aligned in an east-west direction between Cameron Avenue to west and Riley Street to the east.

Beryl Avenue has a carriageway width of approximately 6.8m in the vicinity of the site, which facilitates kerbside parking on both sides and a shared lane for through traffic.

It is noted that 6.8m (less than 7m) is generally considered insufficient for vehicles to park opposite one another and maintain a 3m clear width for through traffic. Accordingly, when assessing the supply of car parking, the capacity of one side has been included only.

The default urban speed limit of 50km/h applies to Beryl Avenue

The intersection between Beryl Avenue and Cameron Avenue is configured as an unsignalised T-intersection with priority given to Cameron Avenue via a Give-Way sign.

Bakers Road is a local road aligned in a north-south direction between South Road to the south and a court bowl to the north.

Bakers Road has a carriageway width of approximately 6.8m in the vicinity of the site, which facilitates kerbside parking on both sides and a shared lane for through traffic.

It is noted that 6.8m (less than 7m) is generally considered insufficient for vehicles to park opposite one another and maintain a 3m clear width for through traffic. Accordingly, when assessing the supply of car parking, the capacity of one side has been included only.

The default urban speed limit of 50km/h applies to Bakers Road.

The intersection between Bakers Road and Beryl Avenue is configured as an unsignalised four-way intersection with priority given to Beryl Avenue via a Give-Way sign.

Photographs depicting the surrounding road network are presented in Figure 7 and Figure 12.



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Figure 7: Golf Road - view north



Figure 8: Golf Road – view south



Figure 9: Beryl Avenue – view east



Figure 10: Beryl Avenue – view west



Figure 11: Bakers Road – view north



Figure 12: Bakers Road – view south



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3.3 Car Parking Conditions

As the requisite number of car spaces under Clause 52.06-5 are provided on the site, it is not necessary to consider the ability of on-street parking areas to accommodate overflow demands. However, for completeness we have undertaken a parking inventory survey to determine the existing car parking conditions for the area surrounding the site. The survey was conducted on Thursday 6th December, 2018 at 10am.

The area surveyed is shown in Figure 13 and the detailed results of the surveys are provided at Appendix B.

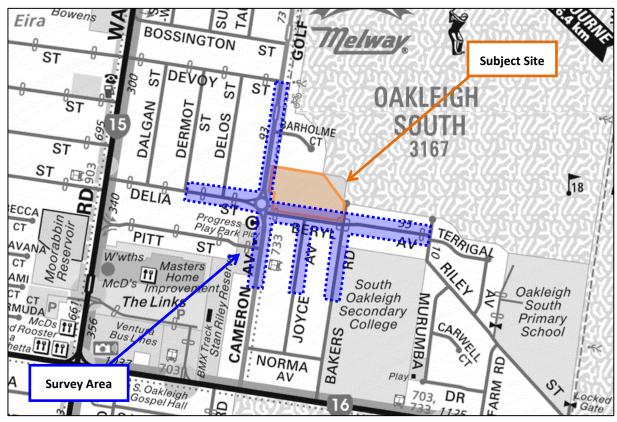


Figure 13: Parking Survey Area

Source: Melway Publishing

A total of 158 publicly available on-street car parking spaces are located within the inventory area.

On-street parking is generally unrestricted, with small areas controlled by 'Permit Zone' restrictions.

There is a total of 26 unrestricted car spaces located along the site's frontage to Beryl Avenue and 3 spaces along Bakers Road.

Kerbside parking is not available along the site's frontage to Golf Road.

The inventory indicated that on-street parking is in low demand with a total of 133 vacant spaces (25 cars parked, 16% occupancy).



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3.4 Public Transport

The site is served by a number of public transport services, including several bus services located within walking distance of the site.

The public transport network surrounding the site is shown in Figure 14. The key facilities located within the nearby area are detailed in the following table.

The closest railway station (walking distance) is Huntingdale Station, located 2.3km from the site. Oakleigh and Clayton Railway Stations are both accessible via bus routes mentioned below.



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Table 2: Summary of Public Transport Services

Service	Between	Via			
Golf Road – approximately 100m walking distance north of the site					
Bus Route 733	Oakleigh Station & Box Hill Station	Clayton, Monash University & Mt Waverley			
Warrigal Road – approximately 550m walking distance west of the site					
Bus Route 903 (SmartBus)	Altona & Mordialloc	Sunshine, Essendon, Coburg, Preston, Heidelberg, Doncaster, Box Hill & Oakleigh			
Centre Road – approximately 550m walking distance south of the site					
Bus Route 703	Middle Brighton & Blackburn	Bentleigh, Clayton & Monash University			

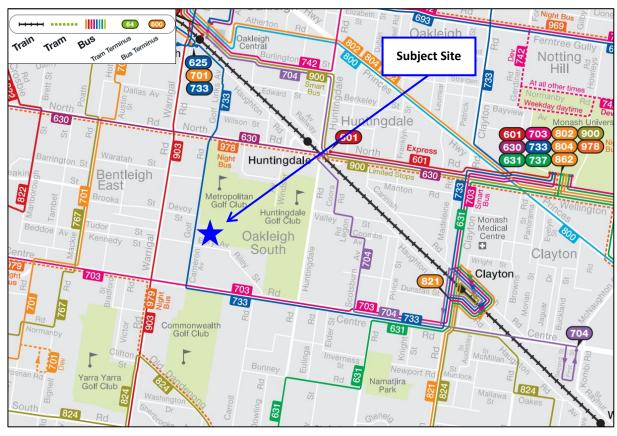


Figure 14: Public Transport Map

Source: ptv.vic.gov.au



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4 Traffic Engineering Assessment

4.1 Statutory Car Parking Assessment

The proposed development falls under the land-use category of 'dwelling' under Clause 74 of the Planning Scheme. The Planning Scheme sets out the parking requirements for new developments under Clause 52.06.

The purpose of Clause 52.06 is:

- To ensure that car parking is provided in accordance with the Municipal Planning Policy Framework and Local Planning Policy Framework.
- To ensure the provision of an appropriate number of car parking spaces having regard to the demand likely to be generated, the activities on the land and the nature of the locality.
- To support sustainable transport alternatives to the motor car.
- To promote the efficient use of car parking spaces through the consolidation of car parking facilities.
- To ensure that car parking does not adversely affect the amenity of the locality.
- To ensure that the design and location of car parking is of a high standard, creates a safe environment for users and enables easy and efficient use.

Clause 52.06-5 states that:

• Column B rates apply if any part of the land is identified as being within the Principal Public Transport Network Area as shown on the Principal Public Transport Network Area Maps (State Government of Victoria, 2018).

As the site is located within the Principal Public Transport Network Area, the Column B rates apply to the site.

The car parking requirements for the proposed use are set out under Clause 52.06 and the car parking table at Clause 52.06-5 of the Planning Scheme.

The assessment of the car parking requirements associated with the proposed development is set out in Table 3.



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Table 3: Statutory Car Parking Assessment - Clause 52.06

Use	Size/No.	Statutory Parking Rate (Column B)	Car Parking Requirement (Note 1)	Car Parking Provision	Shortfall/ Surplus
Two-bedroom Townhouse	20	1 space per one or two- bedroom dwelling	20	20	0
Three-bedroom Townhouse	18	2 spaces per 3 or more bedroom dwelling	36	36	0
Four-bedroom Townhouse	52		104	104	0
Residential visitors 90 dwellings No Requirement		0	12	+12	
TOTAL		160	172	+12	

Note 1: Clause 52.06-5 specifies that where a car parking calculation results in a requirement that is not a whole number, the number of spaces should be rounded down to the nearest whole number.

Table 3 indicates that the statutory car parking requirement for the development is 160 car spaces allocated to residents. No visitor car spaces are required under Column B of Clause 52.06-5.

The proposed car parking provision of 172 car spaces including 160 resident spaces and 12 shared visitor spaces meets the resident requirement and provides 12 additional visitor car spaces.

Accordingly, a car parking reduction is not required under Clause 52.06.

Other Considerations – Availability of Alternative Car Parking

Whilst there is no requirement under Clause 52.06-5 (Column B) for visitor car parking to be provided on the site, there is likely to be some level of visitor car parking generated by the development.

Some visitor car parking will be accommodated on the site within the 12 spaces. Any overflow demands above the provision of 12 will be accommodated on-street. The reliance on off-site car parking areas for visitors of the development is consistent with the approach to residential developments in PPTN areas.

As detailed in Section 3.3, Traffix Group has undertaken a parking inventory survey of the surrounding area.

The results of these surveys highlight that there is a very low demand for on-street parking in the nearby area on weekdays during the day, with 133 vacant spaces (16% occupancy) in the survey area.

Post-development, a total of 19 car spaces will be available along the site's frontage to Beryl Avenue, which could accommodate overflow demands.



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4.2 Bicycle Parking Assessment

Statutory bicycle parking requirements are set out at Clause 52.34 of the Planning Scheme, as follows: Dwellings:

- For residents: in developments of four or more storeys, one space per 5 dwellings
- For visitors: in developments of four or more storeys, one space per 10 dwellings

As this development is less than four storeys there is no statutory requirement to provide bicycle parking on site.

Given the nature of the development, informal bicycle parking can be accommodated within garages or elsewhere on the properties.

4.3 Review of Car Parking Layout and Access Arrangements

Traffix Group has provided design advice to the project architect to achieve a satisfactory carpark layout. The proposed parking layout has been assessed under the following guidelines:

- Clause 52.06-9 of the Planning Scheme (Design standards for car parking),
- Clause 55.03-9/10 of the Planning Scheme, and
- AS2890.1-2004 Part 1: Off-Street car parking, where relevant.

The key elements of the design include:

Clause 52.06-9 Design Standard 1 – Accessways & Clause 55.03-9/10

- Access to the development is provided via a 5.8m wide accessway (with landscaping on both sides) to Golf Road, which facilitates two-lanes accommodating simultaneous two-way movements and accords with Clause 52.06-9 (Design Standard 1) and AS2890.1-2004.
- Internal accessways are at least 5.5m wide with landscaping on both sides allowing for two-way traffic flow and accords with Clause 52.06-9 (Design Standard 1) and AS2890.1-2004.
- Vehicles will be able to enter and exit the site in a forwards direction in accordance with Clause 52.06-9.
- Full pedestrian sight triangles can be achieved on both sides of the accessway in accordance with Clause 52.06-9.
- The width of the accessways do not exceed 33% of the site's frontages to Golf Road, Beryl Avenue and Bakers Road in accordance with Standard B14 (Clause 55.03-9).
- Standard B15 of Clause 55.03-10 requires that shared accessways or carparks of other dwellings and residential buildings should be located at least 1.5m from the windows of habitable rooms. This requirement is satisfied.

Clause 52.06-9 Design Standard 2 – Car parking spaces

• Visitor parallel car spaces are shown as 6.7m long and 2.3m wide satisfying the requirements of Clause 52.06-9 (Design Standard 2) and exceeding the requirements of AS2890.1-2004.



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- 90° visitor car space dimensions are shown as 4.9m long and 2.8m wide with a minimum 6.2m wide access aisle in accordance with Clause 52.06-9 (Design Standard 2).
- Garage dimensions are in accordance with Planning Scheme requirements. We note that:
 - o single garages are at least 6m long x 3.5m wide when measured inside the garage, meeting the Planning Scheme requirements;
 - o single tandem garages are at generally 10.9m long x 3.5m wide when measured inside the garage, meeting the Planning Scheme requirements. In some cases, the rear tandem space is provided at 3.2m wide rather than 3.5m.
 - o double garages are at least 6m long x 5.5m wide when measured inside the garage, meeting the Planning Scheme requirements;
- Open spaces provided in tandem to single garages are at least 5.4m long, which complies with Clause 52.06-9, providing a 4.9m long space with 0.5m offset (to the garage door) for tandem parking.
- Access has been checked to and from car spaces for the B85 design car presented in AS2890.1-2004 and is acceptable. Some car spaces may require an additional manoeuvre to access, however this is expressly permitted by AS2890.1-2004 for long term parking (i.e. resident parking) and is acceptable.

Clause 52.06-9 Design Standard 3 – Gradients

 Accessway grades across the site are naturally flat and accord with Clause 52.06-9, including maximum grades and transitions.

Based on the above, the proposed layout of car spaces is satisfactory and that the access arrangements for the site will provide for safe and efficient movements to and from the surrounding road network.

Other Considerations

Clause 52.06-9 specifies that before deciding on an application, the Responsible Authority must also consider:

The relevant standards of Clauses 56.06-2, 56.06-4, 56.06-5, 56.06-7 and 56.06-8 for residential developments with accessways longer than 60m or serving 16 or more dwellings.

A response to each of these requirements is set out in the following table.

Table 6: Response to Clause 56.06 Requirements

	Planning Scheme Requirement	Development Response
Cycling Network Objectives	Clause 56.06-2 – Walking and Cycling Network Objectives Clause 56.06-5 – Walking and	The site has three street frontages and accordingly, the dwellings located around the east, south and west boundaries of the site have access to a footpath.
		The dwellings located within the centre of the site have access to footpaths which extend in a north-south direction through the site.
		The dwellings located along the north boundary of the site also have access to the footpaths which extend in a north-south direction through the site.



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Planning Scheme Requirement	Development Response
	Further, the internal access roads will function as a low speed 'shared zone' and will be able to facilitate bicycle, pedestrian and vehicle movements within the site.
	Connections to the broader pedestrian and bicycle networks will be facilitated via the existing infrastructure on Golf Road and Beryl Avenue.
	Accordingly, we are satisfied that the development plans meets the objectives and standards of Clause 56.06-2 in regards to pedestrian and bicycle access.
Clause 56.06-4 – Neighbourhood and Street Network Objective	The proposed internal access road has a minimum carriageway width of 5.5m, which is akin to an 'Access Street – Level 1' under Clause 56.06-8 of
Clause 56.06-7 – Neighbourhood Street Network Detail Objective	the Planning Scheme. This road width is appropriate and will allow two-way traffic throughout the site.
	The accessway reduces to a width of 3.6m in one location which accords with the minimum carriageway width requirement as specified in Clause 52.06 of the Planning Scheme. This width only allows for one direction of traffic at a time.
	While the 'verge' requirements of Clause 56.06-8 are not met, the proposed road network within the site will be private roads under the control of the Owners' Corporation and will not be public 'Council' roads. Accordingly, these requirements are not applicable. Furthermore, we understand that the proposed "road reservation" widths are adequate to meet the servicing needs of the development.
	The development meets the objectives of the Planning Scheme in regards to neighbourhood street network objectives.
Clause 56.06-8 – Lot Access Objective	Vehicle access to each garage and visitor spaces has been reviewed and is satisfactory.

Based on the above, the proposed layout of car spaces is satisfactory and that the access arrangements for the site will provide for safe and efficient movements to and from the surrounding road network.

4.4 Traffic Generation & Impact

4.4.1 Traffic Generation

The RTA Guide to Traffic Generating Developments (2002) (RTA Guide) sets out traffic generation rates based on survey data collected in New South Wales for a range of land uses. This guide is referred to in the AustRoads Guide which is used by VicRoads, and is generally regarded as the standard for metropolitan development characteristics.

The RTA Guide sets out the following relevant traffic generation rates for medium density residential development:

Smaller Units (one and two bedrooms):

• Daily vehicle trips = 4 − 5 per dwelling per day



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• Weekday peak hour vehicle trips = 0.4 - 0.5 per dwelling per day

Larger Units (three or more bedrooms)

- Daily vehicle trips = 5 6.5 per dwelling per day
- Weekday peak hour vehicle trips = 0.5 0.65 per dwelling per day

For the purpose of providing a conservative analysis, we have applied a rate of 5 vehicle trip-ends per dwelling per day for each of the two-bedroom townhouse and a rate of 6.5 vehicle trip-ends per dwelling per day for each of the three and four bedroom townhouses, with 10% occurring during the road network peak hours.

This equates to a traffic generation rate of 555 vehicle trip-ends per day, with in the order of 56 vehicle trip-ends occurring during the road network peak hours.

This corresponds to one vehicle either entering or exiting the site every minute on average, during the peak hours (and less at other times).

4.4.2 Traffic Distribution

The following sets out the adopted traffic distribution for the proposed development. This distribution has adopted the following key assumptions:

- 80% of vehicles will exit the site and 20% will enter the site during the AM peak hour, and
- 30% of vehicles will exit the site and 70% will enter the site during the PM peak hour.

Table 4 details the predicted entering and exiting traffic volumes associated with 56 vehicle trip ends for each peak hour, based on the key assumptions listed above.

Table 4: Expected Development Peak Hour Traffic Volumes

Peak Hour	Entry Movements	Exit Movements
AM Peak Hour	11 veh movement (1 car per 5-6 minutes)	45 veh movement (1 car per 1-2 minutes)
PM Peak Hour	39 veh movements (1 car per 1-2 minutes)	17 veh movements (1 car per 3-4 minutes)

Based on the above, the surrounding road network has adequate capacity to accommodate traffic generated by the site, that the proposed access arrangements are satisfactory and that there will be no detrimental impacts on traffic conditions in the surrounding area as a result of the development.

4.5 Waste Collection

A Waste Management Plan was prepared by Sustainability House (dated 31st January, 2020), which outlined the waste collection arrangements for the proposed development.

Waste bins will be stored within each individual garages. It is proposed that waste collection will on occur on-site within the internal road network. A private waste contractor will be engaged to collect waste via a medium rigid vehicle (typically 8.8m long, 4.5m high) for all the dwellings with vehicle access to the internal road network.



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The waste for dwellings with vehicle access to Beryl Avenue will be collected via Council's existing waste collection service.

Swept path diagrams demonstrating the 8.8m medium rigid vehicle circulating the internal road network are provided at Appendix C.

5 Conclusions

Having undertaken a detailed traffic engineering assessment for the proposed residential development at 52 Golf Road, Oakleigh South, we are of the opinion that:

- a) the proposed car parking provision accords with the statutory requirements for residents,
- b) this site is located within the PPTN area and accordingly, does not have a requirement to provide any residential visitor car parking on the site,
- c) some visitor car spaces (12 spaces) are provided on the site, with any overflow demands accommodate on-street as per the intention of the Column B car parking rates,
- d) accordingly, a reduction of the standard car parking requirements is not required under Clause 52.06-7,
- e) the proposed parking layout and vehicle arrangements accords with the relevant requirements of the Planning Scheme, AS2890.1:2004 (where relevant) and current practice,
- f) the site is adequately accessible for waste collection,
- g) traffic generated by the proposed development can be accommodated by the surrounding road network and intersections without any adverse impacts, and
- h) there are no traffic engineering reasons why a permit should not be granted for the proposed development located at 52 Golf Road in Oakleigh South.



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Appendix A Development Plans







52 Golf Road, Oakleigh South: Proposed Residential Development

Appendix B Car Parking Inventory



Surveyed By: Matthew Huynh

Survey Dates & Times: See below

Location	Restriction	Capacity Min - Max	Thursday 6th December, 201
ON-STREET CARPARKING			Toaiii
GOLF ROAD East Side			
	Unrestricted	7	3
No. 28 (NB) to Barholme Court	No Stopping	0	0
	No Stopping	0	0
Barholme Court to No. 52 (WB)	Bus Zone	-	0
	No Stopping	0	0
No. 52 (WB) to Beryl Avenue (Subject Site)	No Stopping	0	0
West Side	No Stopping	0	0
	Unrestricted (Indented Parking)	1	0
Delia Street to No. 97 (NB)	Bus Zone	-	0
	Unrestricted (Indented Parking)	2	1
	No Stopping	0	0
	No Stopping	0	0
No. 97 (NB) to Deroy Street	Bus Zone	-	0
	Capacity	10 - 10	10
GOLF ROAD	Total Number of Cars Parked		4
	Total Number of Vacant Spaces Percentage Occupancy		6 40%
CAMERON AVENUE	. Oreentage overpancy		40/0
East Side			
	No Stopping	0	0
Beryl Avenue to No. 16 (SB)	Bus Zone	-	0
	No Stopping 7-9am & 4-6pm Mon-Fri	11	0
West Side		40	
No. 17 (NB) to Pitt Street	Unrestricted	10	0
Nith Charact to Downston and	Unrestricted	2	0
Pitt Street to Roundabout	Bus Zone	- 0	0
	No Stopping		23
	Capacity Total Number of Cars Parked	23	0
CAMERON AVENUE	Total Number of Vacant Spaces		23
	Percentage Occupancy		0%
DELIA STREET			
North Side		_	_
Dermot Street to Delos Street	Unrestricted	7	0
Delos Street to Golf Road South Side	Unrestricted	8	0
Golf Road to No. 32 (WB)	Unrestricted	9	0
No. 32 (WB) to No. 18 (WB)	Unrestricted	13	5
15. 52 (WD) to 110. 10 (WD)	Capacity	37	37
	Total Number of Cars Parked	, ,	5
DELIA STREET	Total Number of Vacant Spaces		
	Percentage Occupancy		14%



Surveyed By: Matthew Huynh

Survey Dates & Times: See below

ocation	Restriction	Capacity Min - Max	Thursday 6th December, 20
BERYL AVENUE			
Iorth Side			
Cameron Avenue to Bakers Road (Subject Site)	Unrestricted	24	0
(===,====,	Unrestricted	2	0
Bakers Road to Riley Street	Unrestricted	21	3
Vest Side			
tiley Street to Bakers Road	Unrestricted	19	1
Bakers Road to Joyce Avenue	Unrestricted	8	0
oyce Avenue to Cameron Avenue	Unrestricted	7	1
	Capacity	66	66
SERYL AVENUE	Total Number of Cars Parked		5
	Total Number of Vacant Spaces		61
	Percentage Occupancy	Percentage Occupancy legally accommodated on one side of the road. Accordingly, we have only considered the capa	
as t Side END to Beryl Avenue	Unrestricted	2	1
	No Stopping	0	0
	Permit Zone	4	0
Beryl Avenue to opposite No. 17 (NB)	P 2minute 8am-9am & 3-4pm School Days	6	0
	Bus Zone	-	0
		0	0
	No stopping	U	· ·
Vest Side	No stopping	U	
West Side	No stopping Permit zone	14	3
lo. 17 (NB) to Beryl Avenue	Permit zone	14	3
lo. 17 (NB) to Beryl Avenue	Permit zone No Stopping	14	3
No. 17 (NB) to Beryl Avenue Beryl Avenue to END	Permit zone No Stopping Unrestricted	14 0 3	3 0 1
lo. 17 (NB) to Beryl Avenue	Permit zone No Stopping Unrestricted Capacity	14 0 3	3 0 1 3

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Surveyed By: Matthew Huynh

Survey Dates & Times: See below

Location	Restriction	Capacity	Thursday 6th December, 2018
	incompanies in the second seco	Min - Max	10am
JOYCE AVENUE			
West Side			
No. 15 (SB) to Beryl Avenue	Unrestricted	19	5
NO. 13 (36) to Beryl Avenue	No Stopping	0	0
East Side			
Beryl Avenue to No. 14 (SB)	No Stopping	0	0
ber yr Avenue to No. 14 (3b)	Unrestricted	17	4
	Capacity	19	19
JOYCE AVENUE	Total Number of Cars Parked		9
ore Avenor	Total Number of Vacant Spaces		10
	Percentage Occupancy		47%
Note: Due to width of carriageway, parking can only be le	gally accommodated on one side of the road. Accordingly, v	we have only considered the capa	acity on one side.
SUMMARY => ON-STREET CARPARKING			
Car Parking Supply		158 - 158	158
Total Number of Cars Parked			25
Total Number of Vacant Spaces			133
Percentage Occupancy			16%
Note: Public parking includes spaces that are available to the general	public and excludes 'No Stopping', 'Loading Zones' and 'No Parking' are	eas, etc., during the relevant enforceme	ent periods
LEGEND:	Public Parking		
	Not available to the general public		
	Not Available, illegally parked cars included in analysis No Stopping/ Other No Parking		



52 Golf Road, Oakleigh South: Proposed Residential Development

Appendix C Swept Path Diagram

