

MODIFICATION APPLICATION

Section 75W Modification Major Project MP 08_0233 Motel and Ancillary Services (Precinct 2 – Orange Private Hospital Campus) Lot 1 DP 549856, Forest Road, Orange



Prepared for James Richmark Pty Ltd June 2014

Ref: MA2PJB13033

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INTRODUCTION

1.1 OVERVIEW

This Section 75W application seeks to modify Major Project MP 08_0233, which grants approval for a Medi Motel and ancillary services in Precinct 2 of the Orange Private Hospital Campus.

This application is lodged concurrently with separate applications to amend the Approved Concept for Orange Private Hospital Campus (MP07_0072); and the Approved Project for Precinct 1 – Private Hospital (MP 08_0232).

The current Project Approval under MP 08_0233 provides for construction of a Medi-Motel comprising 80 rooms and 9 consultation suites; gymnasium; rehabilitation rooms; and ancillary retail premises (florist, cafe/restaurant and newsagent).

The proposed modification of the Project Approval seeks to increase floor space for health services and consulting in close proximity to the recently established Orange Health Service (public hospital) as well as the proposed private hospital. An increase in retail floor space is also proposed to enable the creation of a neighbourhood scale shopping complex that will be of benefit not only to the private hospital but also serve the nearby public hospital and the broader precinct. Accordingly, the modification involves:

- A separate building for the medi-motel which will maintain a similar number of accommodation rooms to that already approved.
- A separate health facilities building which provides additional floor area for health related services.
- A separate building with increased floor area to provide for a broader range of ancillary retail and food and drink premises.

The key issues that require further consideration as a result of the proposed modification of MP 08_0233 include:

- Comparison to Approved Project
- Environmental planning instruments
- Other planning provisions
- Traffic and parking
- Urban design
- Heritage
- Flora and fauna
- Social impact

1.2 APPLICANT

James Richmark Pty Ltd PO Box 7765 Gold Coast Mail Centre QLD 9726

Correspondence to be forwarded to the applicant's consultant:

Peter Basha Planning & Development PO Box 1827 Orange NSW 2800

1.1 PROJECT TEAM

The project team engaged for this modification application comprises the following:

Site Owner:	James Richmark Pty Ltd
Project Architect:	TVS Architects
Landscape Architect:	McGregor Coxall
Town Planner:	Peter Basha Planning & Development
Traffic Engineer:	Terraffic Pty Ltd

1.2 DOCUMENTATION

This report is accompanied by the following documentation.

Annexure A

Architectural Drawings by TVS Architects

Annexure B

Traffic and Parking Assessment by Terraffic Pty Ltd

Annexure C

Landscaping Plans by McGregor Coxall

Annexure D

Confirmation of physical commencement

THE PROPOSED MODIFICATION

2.1 CURRENT PROJECT APPROVAL

With reference to the Table in Schedule 3, Part 1 of MP 08_0233, the current approval is for construction of a Medi-Motel (Precinct 2) including:

- Construction of a new medi-motel comprising 80 rooms and 9 consultation suites.
- Gymnasium.
- Rehabilitation rooms.
- At grade car-parking spaces.
- Ancillary retail premises (florist, cafe/restaurant and newsagent).
- Stormwater and infrastructure works.
- Road improvements including the construction of a four way signalised intersection on Forest Road.
- Landscaping.

It should be noted that the approval was due to lapse on 23 November 2013. However physical works in respect of MP 08_0233; MP 08_0232; and MP 07_0072 were physically commenced within the meaning of Section 95 of the EPA Act before the lapsing date (as confirmed in the letter from Orange City Council - refer Annexure D).

2.2 PROPOSED MODIFICATION OF THE PROJECT

Pursuant to Section 75W of the EPA Act, and with reference to the architectural drawings provided in Annexure A, it is proposed to modify MP 08_0233 (Precinct 2) as follows:

- Reconfigure the motel building whilst maintaining a similar number of accommodation rooms to that already approved.
- Relocate the medical suites and rehabilitation areas from the motel complex to a proposed separate health facilities building. This building will also provide additional space for pathology, medical imaging and other health related services.
- Increase the amount of retail space within an enlarged separate building.
- Delete the proposed internal bus zones.

The following table provides a snapshot comparison between the Approved Project and the proposed modification:

Precinct 2 (MP 08_0233) Medi Motel	Approved Development	Proposed Development	
Description	 Construction of: Medi-Motel comprising 80 rooms and 9 consultation suites Gymnasium Rehabilitation rooms Ancillary retail premises (florist, cafe/restaurant and newsagent) At grade parking spaces 	 Construction of: Medi-Motel comprising 82 rooms Separate health facilities building for rehabilitation, pathology, medical imaging, chemist, medical suites and the like Ancillary retail premises (florist, cafe/restaurant newsagent, hairdresser, shops, kiosks, take away food and drink premises) At grade parking spaces 	
Medical Suites	750m ²	1,311m ²	
Rehabilitation Centre	750m ²	700m ²	
Imaging, Pathology	n/a	1,050m ²	
Gymnasium	800m ²	n/a	
Retail shops	500m ² (4 shops)	1,498m ² (11 shops)	
Restaurant	n/a	293m ² (150 seats)	
Motel (public)	60 rooms	70 rooms	
Motel (patients)	20 rooms	12 rooms	
Motel Restaurant	150m ² (100 seats)	130m ² (90 seats)	
Motel function room	n/a	140m ²	

The rationale for the proposed modification is explained as follows:

- The Orange Private Hospital Campus site has recently passed into new ownership. The new owners seek to modify the approved concept and projects to better respond to the emerging character and function of the surrounding health services precinct, which now comprises the Orange Health Service (public hospital) to the east of the subject land and an aged care and retirement facility (under construction) to the south of the subject land.
- The emerging health precinct would benefit by providing additional floor space to accommodate health services that seek to be located in close proximity to the recently established Orange Health Service (public hospital) as well as the proposed private hospital. The increase in floor area for health services will encourage a broader range of medical and allied health professionals to locate at the site and provide greater convenience for patients in being able to obtain treatment in a relatively contained medical precinct; and greater convenience for health professionals to consult in their rooms and also undertake their hospitalbased work.
- The increase in retail floor area will enable the creation of a neighbourhood scale shopping complex that will be of benefit not only to the private hospital but also serve the nearby public hospital and the aged care and retirement facility. The neighbourhood shops complex will contribute to the notion of a central focus and gathering space, much like the "village common" that was envisaged in the Approved Concept.
- The provision of internal bus zones is unwarranted. The development site is already served by Route 537 whereby buses currently operate on a daily basis between Orange City Centre and the main entrance to the Orange Health Service (public hospital). The development site is within easy walking distance of that bus stop and pedestrian access will be facilitated by the safe crossings provided in the proposed four-way signalised intersection.

2.1 AMENDMENTS TO APPROVAL NOTICE AND CONDITIONS

Should the proposed modification be approved, the approval notice and conditions will require amendments as indicated below (additions are shown in red and deletions are struck through)

Application made by:	Forest Road Syndicate Pty Ltd James Richmark Pty Ltd
Application made to:	Minister for Planning
Major Project Number:	MP 08/0233
On land comprising:	Lot 1 DP 549856

Amend the Table in Schedule 3, Part 1 to read as follows:

Local Government Area:	Orange City Council		
For the carrying out of:	Construction of a Medi-Motel (Precinct 2) including the following:		
	 Construction of a new Medi-Motel comprising 80 82 rooms and 9 consultation suites 		
	Gymnasium		
	Rehabilitation rooms		
	• A separate health facilities building for rehabilitation, pathology, medical imaging, chemist, medical suites and the like		
	At grade parking spaces		
	• A separate building for ancillary retail premises (florist, cafe/restaurant and newsagent, hairdresser, shops, kiosks, take away food and drink premises)		
	Stormwater and infrastructure works		
	Road improvements including the construction of a four way signalised intersection on Forest Road		
	Landscaping		
Capital Investment Value:	\$7.2 million		
Type of Development:	Project approval under Part 3A of the EP&A Act		
Determination made on:			
Determination:	Modification of Project approval for Medi Motel is granted		
	subject to conditions set out in Parts D, E, F, G, H and I of Schedule 3		
Date of commencement	This approval commences on the date of the Minister's		
of approval:	approval		
Date approval is liable to lapse:	5 years from the date of determination unless specified action has been taken in accordance with Section 75Y of the EP&A		
	Act		

Amend Condition D1 Development Description to read to the following effect:

Project approval is granted only to the carrying out of the following:

- Construction of a new Medi-Motel comprising 80 82 rooms and 9 consultation suites
- Gymnasium
- Rehabilitation rooms
- A separate health facilities building for rehabilitation, pathology, medical imaging, chemist, medical suites and the like
- At grade car-parking spaces

- A separate building for ancillary retail premises (such as florist, cafe/restaurant and newsagent, hairdresser, shops, kiosks, take away food and drink premises and the like)
- Stormwater and infrastructure works
- Road improvements including the construction of a four way signalised intersection on Forest Road
- Landscaping
- Closure of Kemp Road

Amend Condition D2 Development in Accordance with Plans and Documentation to read to the following effect:

The development shall be in accordance with the following plans and documentation:

EA, Concept Plan EA and PPR as modified by documentation provided in support of proposed Modification 1 of MP 08_0233

Project Application – Medi-Motel as modified by documentation provided in support of proposed Modification 1 of MP 08_0233

Architectural (or Design) Drawings prepared by Cox Richardson TVS Architects

Drawing Number	Name of Plan	Revision	Date
DA-01	Site Analysis and Local Context Plan		03/12/2007
DA-02	Site Concept Plan		25/06/2008
DA-04	Hotel Precinct – Ground Floor Plan		25/06/2008
DA-05	Hotel Precinct First Floor Plan		25/06/2008
DA-06	Hotel Precinct – Roof Plan		25/06/2008
DA-07	Western and Eastern Elevations		25/06/2008
DA-08	Northern and Southern Elevations		25/06/2008
DA-09	Inner Eastern and Western Elevations/Section		25/06/2008
	Landscape Plan Medi-Motel 01	Revision G	June 2008
	Section/Elevation – Medi Motel Precinct	Revision E	June 2008
5420.35.01.000	Cover Sheet	3	18.03.14
5420.35.01.001	Location Plan	2	18.03.14
5420.35.01.101	Site Master Concept Plan	13	16.04.14
5420.35.01.102	Precinct 2 – Site Plan	7	18.03.14
5420.35.01.103	Precinct 2 – Elevations & Sections	3	18.03.14
5420.35.02.101	Health Facilities – Ground Floor	4	18.03.14
5420.35.02.102	Health Facilities – Level 1	3	18.03.14

5420.3S.02.103	Health Facilities – Elevations & Sections	5	18.03.14
5420.35.02.104	Health Facilities – Perspectives	1	18.03.14
5420.35.02.201	Neighbourhood Shops – Ground Floor	5	18.03.14
5420.35.02.202	Neighbourhood Shops - Elevations	4	18.03.14
5420.35.02.203	Neighbourhood Shops - Perspectives	1	18.03.14
5420.35.02.301	Motel – Ground Floor	4	18.03.14
5420.35.02.302	Motel – First Floor	4	18.03.14
5420.35.02.303	Motel – Elevations	3	18.03.14
5420.35.02.304	Motel – Elevations & Section	3	18.03.14
5420.35.02.305	Motel - Perspectives	1	18.03.14
5420.35.06.001	GFA – Ground Level	5	18.03.14
5420.35.06.002	GFA – Level 1	4	18.03.14
	Landscape General Concept Plan 00	С	
	Landscape Masterplan 01	E	
	Landscape Section and Planting List 02	D	

Amend Condition E2 Design Modifications to read to the following effect:

In order to facilitate adequate Carparking for the proposed Medi-Motel, the design of the development shall be amended as follows:

- a) A minimum of 134 188 car parking spaces for use by the public shall be provided within the Medi-Motel precinct.
- b) The layout of the car park shall comply with Australia Standard AS 2890.1:1993 Off street Parking. All parking spaces are to be line marked.
- c) The additional car parking spaces shall be provided on the western side of the medi motel along the eastern side of the central circulation driveway system. The car parking spaces shall comprise 90 degree parking.

Design details for all above works shall be submitted to and approved by Orange City Council prior to the issue of a construction certificate.

Amend Condition E8.1 Traffic and Access to read to the following effect:

Engineering plans showing details of the proposed road works, intersection works, bus bays, loading bays, street lighting, car parking areas and signage must be submitted to, and approved by Orange City Council, and the RTA for works on Forest Road, prior to the issuing a Construction Certificate.

All civil design and construction works are to be in accordance with the Orange City Council Development and Subdivision Code and RTA requirements. The Engineering plans shall incorporate:

• A four-way signalised intersection in Forest Road to serve the development. Street lighting is to be provided at the proposed four-way signalised intersection in accordance with RTA and Country Energy requirements. Subject to the final design of the proposed intersection on Forest Road and road widening required to accommodate the proposed road works is to be undertaken within land described as Lot 1 DP 549856.

- A bus zone and loading bay on the eastern side of the Central Road Reserve between the Private Hospital Precinct and the Medi-Motel Precinct. All bus movements within the development are to be in an anticlockwise direction and appropriate signage is to be installed in accordance with the Australian Standard.
- The relocation of the proposed bus bay on the south side of the Medi-Motel to the north of the circulating roadway with car spaces relocated to the area shown as bus bay.

Amend Condition E11 Water and Sewer Augmentation Charges to read to the following effect:

A Certificate of Compliance, from Orange City Council in accordance with the *Water Management Act 2000,* must be submitted to the Principal Certifying Authority prior to the issue of a Construction Certificate. The Certificate of Compliance will be issued subject to the payment of contributions for water, sewer and drainage works – at the level of contribution applicable at that time. The contributions are based on 23 (number to be advised by Orange City Council) ETs for water supply headworks and 24 (number to be advised by Orange City Council) ETs for sewerage headworks.

Amend Condition G14 Car Parking to read to the following effect:

A total of 134 188 off street car parking spaces must be provided upon the site in accordance with the requirements of Council's Development Control Plan as determined by the traffic and parking assessment by Terraffic Pty Ltd dated 23 April 2014. The parking spaces are to be constructed in accordance with the requirements of Council's Development and Subdivision Code.

Amend Condition I4 Ancillary Development to read to the following effect:

Approval for the use of the medical suites/rehabilitation centre and gymnasium is granted as being ancillary to the approved use of the medi motel whereby predominantly persons visiting those facilities for treatment or consultation will be staying at the motel. Should the future use of those facilities change such that predominantly persons utilising those facilities do not stay at the motel and or private hospital a further application shall be submitted for Council's approval where the car parking requirement relating to that use will be reassessed.

ASSESSMENT OF THE PROPOSED MODIFICATION

This section provides an assessment of the proposed modifications against the relevant environmental planning instruments and policies and the likely environmental impacts.

3.1 SECTION 75W MODIFICATIONS

Section 75W of the Environmental Planning & Assessment Act (the Act) provides as follows:

75W Modification of Minister's approval

1) In this section:

"Minister's approval" means an approval to carry out a project under this Part, and includes an approval of a concept plan.

"modification of approval" means changing the terms of a Minister's approval including:

- a) revoking or varying a condition of the approval or imposing an additional condition of the approval, and
- b) changing the terms of any determination made by the Minister under Division 3 in connection with the approval.
- 2) The proponent may request the Minister to modify the Minister's approval for a project. The Minister's approval for a modification is not required if the project as modified will be consistent with the existing approval under this Part.
- 3) The request for the Minister's approval is to be lodged with the Director-General. The Director-General may notify the proponent of environmental assessment requirements with respect to the proposed modifications that the proponent must comply with before the matter will be considered by the Minister.
- 4) The Minister may modify the approval (with or without conditions) or disapprove of the modification.
- 5) The proponent of a project to which section 75K applies who is dissatisfied with the determination of a request under this section with respect to the project (or with the failure of the Minister to determine the request within 40 days after it is made) may, within the time prescribed by the regulations, appeal to the Court. The Court may determine any such appeal".

The proponent requests that the Minister for Planning and Infrastructure, as the consent authority, approve the proposed modification to the Project Application and Conditions of Consent under Section 75W of the Act.

There appear to be no provisions of Section 75W that prohibit or limit the proposed modification.

3.2 ENVIRONMENTAL PLANNING INSTRUMENTS

3.2.1 State Environmental Planning Policy (Major Development) 2005

Major Project MP08_0233 was approved under Part 3A of the Act. Part 3A of the Act was repealed on 1 October 2011 and Schedule 6A of the Act sets out the transitional arrangements applying to projects approved under Part 3A.

Clause 2(5) of Schedule 6A of the Act states that:

A transitional Part 3A project extends to the project as varied by changes to the Part 3A project or concept plan application, to the concept plan approval or to the project approval, whether made before or after the repeal of Part 3A.

Accordingly, any modifications to the approved project will continue to be dealt with under Part 3A as Section 75W modifications.

The Minister for Planning and Infrastructure will continue to determine applications made by State agencies and public proponents, with less significant or non-controversial applications being determined by senior officers of the Department under delegation (refer Department of Planning and Infrastructure Fact Sheet, May 2011).

3.2.2 State Environmental Planning Policy Infrastructure 2007

The project (as modified) represents traffic generating development pursuant to Section 104 and Schedule 3 of *State Environmental Planning Policy Infrastructure 2007.* As such the consent authority is required to consult with NSW Roads and Maritime Services.

Traffic matters are addressed in *Section 3.4.1* of this report.

3.2.3 State Environmental Planning Policy No. 55 Remediation of Land

The provisions of SEPP 55 were addressed in the original environmental assessment for the project.

A Stage 1 site assessment was undertaken by Environmental Investigation Services and concluded that the subject land did not indicate any obvious on site activity that could be expected to generate significant soil contamination.

Further, the results of laboratory testing on selected soil samples indicated levels below the adopted health-based assessment criteria.

3.2.4 Orange Local Environmental Plan 2011

The relevant provisions of Orange Local Environmental Plan 2011 (the LEP) are considered below.

Zoning

The subject land is zoned R1 General Residential. The objectives of the R1 Zone are:

- To provide for the housing needs of the community.
- To provide for a variety of housing types and densities.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To ensure development is ordered in such a way as to maximise public transport patronage and encourage walking and cycling in close proximity to settlement.
- To ensure that development along the Southern Link Road has an alternative access.

There are no aspects of the proposed modification that are adverse to the zone objectives. In particular:

- The first stated objective is not relevant to the proposed modification.
- The second stated objective is not relevant to the proposed modification.
- In consideration of the third stated objective, the proposal is not expressly intended to meet the needs of day to day residents. However the proposed increase in retail floor space resembles a neighbourhood scale shopping complex that will be of benefit not only to the private hospital but also serve the nearby public hospital and the aged care and retirement facility.
- In response to the fourth stated objective, the project (as modified) forms part of an evolving medical/hospital precinct and would thus benefit by the various transport modes that service the area.
- The fifth stated objective is not relevant to the proposed modification.

Permissibility

The project within Precinct 2 represents development for the purposes of a *health services facility* and is permissible in the R1 Zone with recourse to *State Environmental Planning Policy (Infrastructure) 2007.*

Clause 57(1) of the SEPP states that development for the purpose of *health services facilities* may be carried out by any person with consent on land in a prescribed zone. The R1 General Residential Zone is a *prescribed zone*.

Clause 56 of the SEPP defines a health services facility as a facility used to provide medical or other services relating to the maintenance or improvement of the health, or the restoration to health, of persons or the prevention of disease in or treatment of injury to persons, and includes the following:

- (a) day surgeries and medical centres,
- (b) community health service facilities,
- (c) health consulting rooms,
- (d) facilities for the transport of patients, including helipads and ambulance facilities,
- (e) hospitals.

The medi motel and retail components of the project fit within the broad range of ancillary facilities that are included in the definition of *hospital* which is defined as a building or place used for the purpose of providing professional health care services (such as preventative or convalescent care, diagnosis, medical or surgical treatment, psychiatric care or care for people with disabilities, or counselling services provided by health care professionals) to people admitted as in-patients (whether or not out-patients are also cared for or treated there), and includes ancillary facilities for (or that consist of) any of the following:

- a) day surgery, day procedures or health consulting rooms,
- b) accommodation for nurses or other health care workers,
- c) accommodation for persons receiving health care or for their visitors,
- d) shops, kiosks, restaurants or cafes or take away food and drink premises,
- e) patient transport facilities, including helipads, ambulance facilities and car parking,
- f) educational purposes or any other health-related use,
- g) research purposes (whether or not carried out by hospital staff or health care workers or for commercial purposes),
- h) chapels,
- i) hospices,
- j) mortuaries.

Whilst the permissibility of the project is underpinned by the SEPP, it is relevant that:

- The medi motel could also be defined as *tourist and visitor* accommodation. The Land Use Table in Orange LEP 2011 indicates that *tourist and visitor accommodation* is permissible the R1 Zone.
- Much of the retail component could also be defined as *neighbourhood shops*. The Land Use Table in Orange LEP 2011 indicates that *neighbourhood shops* are permissible the R1 Zone. Further, the floor areas of most shops would comply with the maximum floor area limit of 140m² as required by Clause 5.4(7) of the LEP.

Clause 1.2 Aims of Plan

The particular aims of the LEP are as follows:

- a) to encourage development that complements and enhances the unique character of Orange as a major regional centre boasting a diverse economy and offering an attractive regional lifestyle,
- b) to provide for a range of development opportunities that contribute to the social, economic and environmental resources of Orange in a way that allows the needs of present and future generations to be met by implementing the principles of ecologically sustainable development,
- c) to conserve and enhance the water resources on which Orange depends, particularly water supply catchments,
- d) to manage rural land as an environmental resource that provides economic and social benefits for Orange,
- e) to provide a range of housing choices in planned urban and rural locations to meet population growth,
- f) to recognise and manage valued environmental heritage, landscape and scenic features of Orange.

In consideration of the general aims of LEP 2011, the following comments are provided in support of the proposed modification:

- There are no aspects of the proposed modification that would detract from the character of Orange as a major regional centre [*General Aim* (*a*)].
- The project as modified maintains the potential to have a positive effect in terms of the social, economic and environmental resources of the City. There are no aspects of the proposed modification that would compromise the principles of ecologically sustainable development [General Aim (b)].

- There are no aspects of the proposed modification that would represent a direct threat to the City's water resources [*General Aim* (c)].
- The management of rural land as an environmental resource is not relevant to this proposal [*General Aim (d)*].
- The impact on the City's range and supply of housing choices is not relevant to this proposal [*General Aim (e)*].
- Based on the information provided in this report, the proposed modification will not adversely affect the value of heritage, landscape and scenic features of the City [General Aim (f)].

Clause 5.10 Heritage Conservation

The subject land is not within a Heritage Conservation Area. However, it is in the vicinity of "Bloomfield Hospital" which is identified in the LEP as a heritage item of State significance.

Clause 5.10 of the LEP applies. The objectives of this clause are as follows:

- a) to conserve the environmental heritage of Orange,
- b) to conserve the heritage significance of heritage items and heritage conservation areas, including associated fabric, settings and views,
- c) to conserve archaeological sites,
- d) to conserve Aboriginal objects and Aboriginal places of heritage significance.

Pursuant to Clause 5.10(4), it is necessary to consider the potential impact that the proposed modification may have on any heritage item within the vicinity of the subject land.

Heritage matters are addressed at *Section 3.4.3* of this report.

Clause 7.3 Stormwater management

Clause 7.3 of the LEP applies. The objective of this clause is to minimise the impacts of urban stormwater on the land to which the development applies, and on adjoining downstream properties, native bushland and receiving waters.

The proposed modification does not involve any alteration to the approved stormwater drainage arrangements that will serve the approved project.

Clause 7.6 Groundwater vulnerability

The subject land is defined on the Orange Local Environmental Plan 2011 – Water Map as having groundwater vulnerability. Clause 7.6 of the LEP applies. The objectives of this clause are to maintain the hydrological functions of key groundwater systems and to protect vulnerable groundwater resources from depletion and contamination as a result of inappropriate development.

There are no aspects of the proposed modification that would cause adverse impact on groundwater resources.

3.3 DEVELOPMENT CONTROL PLANS

3.3.1 Orange Development Control Plan 2004 – 07 Development in Residential Areas

Orange Development Control Plan 2004 – 7 Development in Residential Areas is applicable only due to the land being zoned R1 General Residential. The DCP however does not set specific Planning Outcomes for the type of development described in this project approval.

3.3.2 Orange Development Control Plan 2004 – 13 Heritage

Orange DCP 2004 – 13 Heritage applies to the extent that the subject land is in the vicinity of an identified heritage item. The DCP sets certain Planning Outcomes pertaining to heritage and conservation.

The proposed modification is not adverse to these Planning Outcomes. The heritage impacts of the proposed modification are considered later in this report at *Section 3.4.3*.

3.3.1 Orange Development Control Plan 2004 – 15 Car Parking

The parking requirements of DCP 2004-15 are considered below in *Section* 3.4.1.

3.4 POTENTIAL IMPACTS

3.4.1 Traffic and Parking

Consultants Terraffic Pty Ltd have undertaken a traffic and parking assessment which is included as Annexure B to this report. Terraffic assess the traffic and parking impacts for the entire project as modified. The findings and conclusions of the Terraffic report are summarised below.

Parking Assessment

The proposed development will be served by a total of 617 off-street car parking spaces as follows:

- Precinct 1
 - 101 spaces (including 6 disabled spaces) serving the hospital
- Precinct 2
 - 116 spaces (including 7 disabled spaces) serving the health facilities and retail shops
 - 72 spaces serving the motel comprising 70 guest and 2 staff parking spaces. This parking provision includes 5 disabled guest spaces
- Precinct 3
 - = 83 spaces serving the 59 residential units
 - 25 spaces serving the 100 place Child Care Centre
- Precinct 4
 - 220 spaces serving the 157 residential units

In addition to these spaces, there are 41 parallel parking spaces on the internal road network serving the site. Once these roads are constructed to provide access to Precincts 3 and 4, these on-street parking spaces will be available as surplus parking for the overall development (thus the total parking provision will be 658 spaces).

According to DCP 2004–15, the proposed development would generate a parking requirement of 749 spaces as calculated in the following table.

Proposed Use	DCP requirement	Calculation Unit	Spaces Required
Hospital	1 space for every 3 beds plus 1 space each resident doctor plus 1 space for every 2 visiting doctor plus 1 space for every 2 employees.	104 beds = 35 spaces Allow 130 staff including doctors = 65 spaces	100
Health Consulting Rooms	2 spaces for every 1 practitioner with spaces being available for customer and staff use.	Allow 24 practitioners = 48 spaces	48
Motel	1 space per unit plus 1 space for manager plus 1 space for every 2 employees plus 1 space per 3 seats in restaurant plus 1 space per 10m ² of entertainment or function room areas	82 units = 82 spaces 1 manager = 1 space Say 12 staff = 6 spaces 90 seat restaurant=30 spaces 140m ² function= 14 spaces	133
	1 space per 10m ² of entertainment or function room areas	140m ² function= 14 spaces	

Proposed Use	DCP requirement	Calculation Unit	Spaces Required
Restaurants	1 space per 10m ² GFA or 1 space for every 3 seats, whichever is greater	150 seats = 50 spaces	50
Childcare Centre	1 space for every 4 children in attendance	100 places = 25 spaces	25
Residential Units	1.2 spaces per 2 bedroom unit 0.2 visitors spaces per unit	216 x 2 bed units=259 spaces 216 x 0.2 = 43 visitor spaces	302
Shops	6.1 spaces per 100m2 GLFA	GLFA 1,498m ² = 91 spaces	91
Shops	6.1 spaces per 100m2 GLFA TOTAL PARKING REQUIREMENT I		91 749

Based on the proposed parking provision and the DCP requirements, the development would generate a parking shortfall of 91 spaces. However, Terraffic seeks to modify the DCP requirements based on the following arguments pertaining to dual and complimentary uses (refer extract below):

Dual and Complimentary Use of Parking

The Council's parking requirements do not consider the Dual and Complementary use of parking that will occur on the site.

Dual use of parking spaces occurs when patrons of one component of a development also patronise another. For example, a proportion of staff and visitors to the proposed hospital and medical facility can also be expected to patronise the retail shops in Precinct 2. Not only will this reduce the parking requirements for the proposed medical facility, it also has the potential to reduce the traffic generating potential of visitors to the site.

In addition, another form of Dual use parking is that a proportion of residents in the Precinct 3 and 4 residential flat buildings will be employees of the commercial uses on the site and the Orange Base Hospital. These residents will be allocated an on-site parking space within the residential precinct and will ultimately reduce the overall parking demand and traffic generation of the proposed development site.

Complementary use of parking spaces occurs when the peak parking demand of one component of a development does not coincide with the peak parking demand of another. In this case, the peak parking demand of the restaurant or the function centre in the motel is at night after 6pm, whereas the peak parking demand of the retail shops and health facilities in Precinct 2 is throughout the day.

Modifications to DCP Parking Requirements

When taking into account the dual and complimentary use of car parking, this assessment has slightly modified the following DCP parking requirements:

- 1. The parking requirement for the retail floorspace (6.1 spaces per 100m²) is excessive because it is unlikely that the general public will travel to the site to visit the café/florist/gift/newsagent stores. Furthermore, a high percentage of shoppers will already be on the site or will be generated by the Base Hospital on the eastern side of Forest Road (dual use). In these circumstances, the parking requirement for that retail floorspace will adopt the Council DCP rate of 4.1 spaces per 100m² which applies to shops in the CBD.
- 2. The parking requirement specified for the motel rooms (1 space per room) is excessive because 12 of the rooms will be medical suites occupied by persons who are bedridden. Accordingly, the requirement of 1 space per room has been applied to 70 standard rooms.
- 3. The parking requirement for the restaurant incorporated in Precinct 2 will only apply during the night when the restaurant will be operational. As noted in the foregoing, this approach is applying the principle of complementary use of parking on the site. In addition, it is likely that some restaurant patrons will be staff/visitors to the hospital or guests of the motel who are already in the area. This includes staff and visitors to the Base Hospital on the eastern side of Forest Road. To that end, the restaurant will also be also adopting the dual use principle.
- 4. The parking requirement for the restaurant incorporated in the motel is excessive because a substantial proportion of restaurant patronage, if not all of it, will be drawn from motel guests and patients. In addition there will be a proportion of staff and visitors of the proposed hospital in Precinct 1 and the existing Base Hospital opposite the site. In these circumstances, the parking requirement for the motel restaurant (1 space per 3 seats) has been reduced to 20% of the requirement and will apply during the night only. These additional restaurant patrons who are not already in the area will utilise the remaining Precinct 2 parking spaces allocated to the health facility and retail shops that will be closed at that time (complementary use)
- 5. As per the restaurants on the site, the motel function room is expected to only operate at nights when the health facilities and retail shops are closed on Precinct 2. To that end, the parking requirement of 1 space per 10m2 for the motel function room will apply at night time only. Furthermore, it is expected that some of the function guests will also be motel guests who have already parked on the site (dual use).
- 6. As the hospital in Precinct 1 will be operational 24 hours a day, this assessment has assumed that the night time workforce parking demand will be 20% of the daytime peak. As the visitor peak is typically at nights, the parking demand for the visitor component of the parking requirement will apply during the evening (i.e. 35 spaces).

In addition, this assessment has assumed that the proposed health facilities in Precinct 2 will have a total of 24 practitioners on-site at any given time. As can be appreciated, this is a conservative approach as specialists (such as surgeons and physiotherapists) tend to operate between hospitals and their office and may only be on-site on a given day.

Adopting the above modifications (and with reference to Tables 3.1 and 3.2 of the Terraffic report, the parking needs for the development are assessed as follows:

DAYTIME PARKING REQUIREMENT				
Precinct 1	Hospital 100 spaces			
	Health Facility 55 spaces			
Precinct 2	Retail Shops 61 spaces			
	Motel 72 spaces			
	(Precinct 2 Sub-total 182 spaces)			
Precinct 3	Residential 83 spaces			
	Child Care Centre 25 spaces			
	(Sub-total 108 spaces)			
Precinct 4	Residential 220 spaces			
Total requirement	616 spaces			
NIGHT TIME PARKING REQUIREMENT				
Precinct 1	Hospital 48 spaces			
	Restaurant 50 spaces			
	Motel 72 spaces			
Precinct 2	Motel restaurant 8 spaces			
	Motel function room 14 spaces			
	(Precinct 2 Sub-total 144 spaces)			
Precinct 3	Residential 83 spaces			
Precinct 4	Residential 220 spaces			
Total requirement	495 spaces			

Based on the above information, the Terraffic report concludes that the parking provision incorporated in the development proposal is adequate and that the proposed development has no unacceptable parking implications.

Servicing Assessment

The Terraffic report concludes that the project will be satisfactory in terms of servicing as summarised below:

- Precinct 1: Private Hospital Deliveries:
 - The proposed development will retain the 2 loading docks that were approved to serve the hospital development. The loading docks are required to accommodate the commercial vehicles transporting food, linen, medical supplies, office equipment and provisions to the hospital, and transporting waste from the hospital.

- The vehicles used in those activities are expected to comprise predominantly vans and the SRV, with some deliveries via the MRV and the HRV. Articulated vehicles (AV) are not expected to be involved in deliveries to/from the site.
- While the number of commercial vehicle trips generated by the Private Hospital will be variable, it is expected that the maximum daily commercial vehicle generation will be in the order of 20 vehicles per day (40 vehicle trips per day).
- All delivery vehicles accessing the hospital precinct and loading docks will enter via the Forest Road traffic signals. The ability of the heavy rigid vehicle to access the site and manoeuvre to/from the loading dock has been tested using the AutoTrack computer simulation software. This test found that the HRV can comfortably access the site and the loading docks incorporated in the proposed Private Hospital.
- Precinct 2: Health Facilities, Neighbourhood Shops and Motel Deliveries:
 - The proposed health facility is not served by a dedicated loading dock like the hospital in Precinct 1. Couriers making deliveries to this facility in vans will utilise the off-street parking area serving this component of the Precinct 2 development. Deliveries by larger commercial vehicles are not expected to occur for the health facility.
 - The neighbourhood shopping area contains 2 separate loading areas capable of accommodating Medium Rigid Vehicles. The loading docks are located at the eastern and western ends of the development and will provide convenient access to each shop.
 - The motel will also be served by a loading area capable of accommodating the Medium Rigid Vehicle. The motel is expected to generate commercial vehicles transporting predominantly food, liquor, linen and other provisions to the motel, and transporting waste from the motel.
 - The vehicles used in those activities are expected to comprise predominantly vans, with some deliveries using the SRV and the MRV.
 - While the number of commercial vehicle trips generated by the uses in Precinct 2 will be variable, it is expected that the maximum daily commercial vehicle generation will be in the order of 30 vehicles per day (60 vehicle trips per day).
 - The ability of medium rigid vehicles to access the site and manoeuvre to/from the loading areas serving each use in Precinct 2 has also been tested using the AutoTrack computer simulation software. This test found that the MRV can comfortably access the site and the loading areas.

- Precinct 3: Child Care Centre and Residential Unit Deliveries:
 - Deliveries to the childcare centre are expected to be only minor, comprising 3 to 4 vehicle trips per day in vans or SRV's.
 - Childcare centres typically avoid deliveries during peak child setdown/pick-up periods and utilise the empty car park outside of the am and pm peak periods.
- Precinct 3 and 4: Residential Unit Deliveries:
 - While the residential component of the proposed development will generate commercial vehicle activity associated with residents moving into and out of the precinct, and some service vehicle activity for residents living there, this commercial vehicle activity will not be frequent nor regular, or of a level that is likely to have any significant traffic implications.
 - Based on these assumptions, the overall development will generate in the order of 45 to 50 deliveries per day ranging from courier vans to Heavy Rigid Vehicles. This level of activity equates to no more than 10 deliveries to the site during the morning and evening peak periods. This commercial vehicle activity will not be of a level that is likely to have any significant traffic implications.

Traffic Assessment

The currently approved access arrangements that serve the site off Forest Road will be retained and comprise the following:

- A new 4-way signalised intersection on Forest Road that will connect the site to the main access driveway serving the Orange Base Hospital which is located on the eastern side of Forest Road. The new signals will include pedestrian crossings on each leg of the intersection to enhance pedestrian safety.
- Left turn exit only movements from a northern access driveway

To assess the adequacy of the approved access arrangements in the context of the proposed modification, the traffic assessment involved:

- Prediction of traffic generation by the development;
- Allowance for traffic growth along Forest Road;
- Modelling of each access point under projected future demand.

Terraffic concludes that the project will not generate unacceptable traffic impacts as summarised below:

- The main traffic implications of the proposed development concern the ability of traffic that it generates to access the site via the two access points off Forest Rd (i.e. the new traffic signals serving the site and the Base Hospital and the northern left out only access driveway).
- The ability of these intersections to accommodate the projected postdevelopment traffic demand can be assessed using the SIDRA traffic model.
- The access points off Forest Rd were modelled under projected future (2024) traffic demand and include the current traffic generation characteristics of the Base Hospital on the eastern side of Forest Road.
- The results of that SIDRA analysis reveal that both intersections will operate satisfactorily under projected traffic demand in 2024.

3.4.2 Visual Amenity

It is submitted that the proposed modification will not generate adverse visual impacts due to the following:

- The buildings proposed by this modification maintain the characteristics of the currently approved project, particularly the 2 storey scale and the modern and contemporary architecture (that also compliments the public hospital which has been constructed since the original approvals).
- High quality materials and finishes are proposed.
- Compared to the current approval for Precinct 2, the proposed modification has the potential to improve the eventual streetscape. In this regard:
 - The current approval provides an elongated building form more or less parallel to Forest Road. The proposed modification avoids this by breaking the buildings into separate complexes and providing space and landscaping between them. Further, the proposed buildings are set at non-parallel angles to improve articulation.
 - The proposed modification removes the expansive car park that dominates the frontage of the site under the current approval and thus increases the opportunity for landscaping in this area.
- The proposed modification maintains a high level of landscaping.

 The hospital building height increases from 3 storeys to 4 storeys. The intention was to maintain views to the west to Mount Canobolas and the western hinterland of Orange. However, the revised layout of buildings in Precinct 2 opens up view corridors that are considered more effective than what would be achieved by limiting building height of the hospital alone.

3.4.3 European Heritage

Schedule 5 of Orange LEP 2011 identifies the Bloomfield Hospital campus (to the east of the subject land on the opposite side of Forest Road) as a heritage item of State significance. More specifically, the listing refers to *Bloomfield Hospital "Nymagee Lodge" (including landscape features, entry gateway, Elm avenue and grounds).*

A review of the Bloomfield Hospital Conservation Management Plan (CMP) indicates that this project is located well beyond the primary heritage curtilage and thus presents even less of a potential impact upon the heritage values of the place.

In any event and consistent with the currently approved project, the proposed modification respects the heritage item. In this regard it maintains a generous setback from Forest Road to enable reasonable landscaping opportunities; and the building height remains at a 2 storey scale.

The Precinct 2 buildings do not maintain a 24 metre setback from Forest Road along the entire boundary. The setback ranges from 12 metres to 35 metres. The 24 metres setback was motivated by heritage considerations for the Bloomfield Hospital Campus. The variation is justified on the following grounds:

- The new public hospital which has been constructed in the Bloomfield Hospital campus is a modern and bulky building that now characterises the precinct. This building and its external support areas diminish the visual relationship between the heritage item and the subject land.
- Compared to the current approval for Precinct 2, the proposed modification has the potential to improve the eventual streetscape. The current approval provides for an elongated and largely unbroken building form more or less parallel to Forest Road. The proposed modification avoids this by breaking the buildings into separate complexes and providing space and landscaping between them. Further, the proposed buildings are set at non-parallel angles to improve articulation.
- The proposed modification removes the expansive car park that dominates the frontage of the site under the current approval and thus increases the opportunity for landscaping in this area.

3.4.4 Aboriginal Heritage

The potential impacts on Aboriginal heritage were considered in the environmental assessment for the currently approved project.

There are no aspects of the proposed modification that would generate additional impacts in this regard.

3.4.5 Flora and Fauna

The potential impacts on native flora and fauna were considered in the environmental assessment for the currently approved project.

There are no aspects of the proposed modification that would generate additional impacts in this regard.

3.4.6 Social and Economic Impacts

The social and economic impacts of the project were considered as positive in the environmental assessment for the Approved Concept, particularly as the co-location of the private hospital campus with the existing public hospital campus would present numerous benefits for patients, staff, administrators and carers to utilise the complementary medical, social and ancillary services of the two facilities.

The proposed modification to the Approved Project in Precinct 2 is expected to broaden the social and economic benefits due to the following:

- The increase in floor area for health services will encourage a broader range of medical and allied health professionals to locate at the site in close proximity to public and private hospitals. The benefits include:
 - Greater convenience and less discomfort for patients in being able to obtain treatment in a relatively contained medical precinct.
 - Greater convenience for health professionals to consult in their rooms and also undertake their hospital-based work.
 - Improves the current situation where there are limited sites and available land for private health consulting rooms and medical facilities to become established in close proximity to the existing public and proposed private hospitals.
 - A broader range of health services facilities and consulting rooms contributes to the notion of a "centre of excellence" as various medical treatment facilities and technologies accumulate in both the private and public sectors of the broader medical precinct.

- The neighbourhood shops complex is positioned centrally to the private hospital, health facilities and medi-motel with strong pedestrian links. The complex is also easily accessible to the planned residential precincts in the western half of the campus. The increase in retail floor area will:
 - Enable the creation of a neighbourhood scale shopping complex that will be of benefit not only to the private hospital but also serve the nearby public hospital, the aged care and retirement facility and the broader precinct.
 - Improve convenience for staff and the general public who would otherwise have to leave the precinct and travel to other areas to obtain the services and facilities that can be offered in the complex.
 - Contribute to the notion of a central focus and gathering space, much like the "village common" that was envisaged in the Approved Concept.

There appear to be no negative social or economic effects generated by the proposed modification. An increase in the offering of health care services could only be considered beneficial for the community.

CONCLUSION

The proposed modification of MP 08_0233 (Precinct 2) seeks to:

- Reconfigure the motel building whilst maintaining a similar number of accommodation rooms to that already approved.
- Relocate the medical suites and rehabilitation areas from the motel complex to a proposed separate health facilities building. This building will also provide additional space for pathology, medical imaging and other health related services.
- Increase the amount of retail space within an enlarged separate building.
- Delete the proposed internal bus zone due to the availability of a bus service at the nearby public hospital.

The effect of the proposed modification is summarised as follows:

- The number of motel rooms remains similar to that which has already been approved; notwithstanding the approved building itself has been redesigned.
- The medical suites and rehabilitation areas have been removed from the motel complex and located within the proposed separate health facilities building. This building will also provide additional space for medical suites, pathology, medical imaging and the like.
- The amount of retail space is proposed to be increased to improve services and amenities not only for the private hospital campus but also for the public hospital campus immediately opposite the site.

The proposed modification remains consistent with the intent of the original approval which sought to form a cohesive, harmonious and interrelated whole about a nucleus of health services. This fundamental intent has not been altered.

This environmental assessment demonstrates that the project as modified will not result in significant adverse impacts on the surrounding environment. In particular:

- The visual impacts are considered satisfactory.
- The proposed parking resources and potential traffic impacts are considered to be satisfactory based on the assessment undertaken by Terraffic Pty Ltd.
- It has the potential to generate positive social and economic benefits.

It is recommended that this Section 75W application be approved

Yours faithfully Peter Basha Planning & Development

Behn

Per: **PETER BASHA**

Annexure A Architectural Drawings by TVS Architects



Drawing List

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Sheet No.	Sheet Name	Rev	Date
01.000	Cover sheet	з	18.03.14
01.001	Location Plan	2	18.03.14
01.101	Site Master Concept Plan	10	18.03.14
01.102	Precinct 2 - Site Plan	7	18.03.14
01.103	Precinct 2 - Elevations & Sections	3	18.03.14
02.101	Health Facilities - Ground Floor	4	18.03.14
02.102	Health Facilities - Level 1	3	18.03.14
02.103	Health Facilities - Elevations & Sections	5	18.03.14
02.104	Health Facilities - Perspectives	1	18.03.14
02.201	Neighbourhood Shops - Ground Floor	5	18.03.14
02.202	Neighbourhood Shops - Elevations	4	18.03.14
02.203	Neighbourhood Shops - Perspectives	1	18.03.14
02.301	Motel - Ground Floor	4	18.03.14
02.302	Motel - First Floor	4	18.03.14
02.303	Motel - Elevations	Э	18.03.14
02.304	Motel - Elevations & Section	3	18.03.14
02.305	Motel - Perspectives	1	18.03.14
06.001	GFA - Ground Level	5	18.03.14
06.002	GFA - Level 1	4	18.03.14

Legend

- A Health Facilities & Shops B Neighbourhood Shops
- C Motel

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	Revision	Description	Date	Initials
	2	Preliminary Issue	27.02.14	MB
1	3	DA Issue	18.03.14	DH



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Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title Cover sheet

Project Architect/Designer Drawn By Date Drawn M Urquhart MB Feb 14 Scale @ A3 Checked Date Checked As indicated PJ . Drawing No. Revision 5420.3S.01.000 3

Orange City Centre



Orange Base Hospital

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1	Preliminary Issue	27.02.14	MB
Revision	Description	Date	Initials







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Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title Location Plan

Project Architect/Designer Drawn By Date Drawn M Urquhart Scale @ A3 Checked 1:1500 PJ Drawing No.

DH

Feb 14 Date Checked

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13	DA Issue	16.04.14	DH
12	Coordination Issue	11.04.14	DH
Revision	Description	Date	Initials



Project Orange Private Hospital Site

James Richmark Pty Ltd

Drawing Title Site Master Concept Plan

Project Architect/Designer		Drawn By	Date Drawn	
M Urquhart		DH	Aug 13	
Scale @ A3	Checked		Date Checked	
1:1000	PJ			
Drawing No.			Revision	
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7	DA Issue	18.03.14	
1	DA Issue	18.03.14	DH
Revision	Description	Date	Initials



Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title Precinct 2 - Site Plan

Project Architect/Designer Drawn By Date Drawn M Urquhart DH Oct 13 Scale @ A3 Checked Date Checked 1:500 PJ Drawing No. Revision 5420.3S.01.102 8



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3	DA Issue	18.03.14	DH
2	Preliminary Issue	27.02.14	MB
Revision	Description	Date	Initials





Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title

Precinct 2 - Elevations &

Sections

Project Architect/Designer Drawn By Date Drawn M Urquhart MB Feb 14 Scale @ A3 Checked Date Checked 1:500 PJ Drawing No. Revision 5420.3S.01.103 3




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Orange Private Hospital Site

Health Facilities - Ground

Floor

Drawing Title

Project

Client

Project Architect/Designer Drawn By Date Drawn M Urquhart MB Scale @ A3 Checked 1:300 PJ Drawing No. 5420.3S.02.101

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Feb 14 Date Checked

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Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title

Health Facilities - Level 1

Project Architect/Designer Drawn By Date Drawn M Urguhart MB Feb 14 Scale @ A3 Checked Date Checked 1:300 PJ . Drawing No. Revision 5420.3S.02.102 3





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BS	Batten Screen
G	Glazing
HSS	Horizontal Sun Screen
LC	Lightweight Cladding
PM	Painted Masonry
PMC	Pre-coated Metal Cladding
SH	Sun Hood
TC	Textured Cladding
TSF	Translucent Cladding
VSS	Vertical Sun Screen

Note: This sheet has been re numbered from 5420.38.04.101

5	DA Issue	18.03.14	DH
4	Preliminary Issue	27.02.14	MB
Revision	Description	Date	Initials





Project

Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title

Health Facilities - Elevations & Sections

Project Architect/Designer Drawn By Date Drawn M Urguhart MB Nov 13 Scale @ A3 Checked Date Checked 1:300 PJ . Drawing No. Revision 5420.3S.02.103 5



Health - Part Northern Perspective

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Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title Health Facilities -

Perspectives

Project Architect/Designer Drawn By Date Drawn M Urquhart Scale @ A3 Checked РJ

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Feb 14 Date Checked

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Drawing No. 5420.3S.02.104 Revision

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Revision	Description	Date	Initials







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Project Orange Private Hospital Site

Client

James Richmark Pty Ltd

Drawing Title Neighbourhood Shops -Ground Floor

Project Architect/Designer Drawn By Date Drawn M Urquhart DH Scale @ A3 Checked 1:300 PJ Drawing No. 5420.3S.02.201

Nov 13 Date Checked

Revision

5



Nbrhood Shops - Ground FFL FFL912.000



Neighbourhood Shops - South Elevation

Nbrhood Shops - Ground FFL FFL912.000





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1:300

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-Legend-

BS	Batten Screen
G	Glazing
HSS	Horizontal Sun Screen
LC	Lightweight Cladding
PM	Painted Masonry
PMC	Pre-coated Metal Cladding
SH	Sun Hood
T 0	
TC	Textured Cladding
TC TSF	Textured Cladding Translucent Cladding
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Note: This sheet has been re numbered from 5420.3S.04.201

4	DA Issue	18.03.14	DH
3	Preliminary Issue	27.02.14	MB
Revision	Description	Date	Initials



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Projec **Orange Private Hospital Site**

Client James Richmark Pty Ltd

Drawing Title

Neighbourhood Shops -

Elevations

Project Architect/Designer Drawn By Date Drawn M Urguhart DH Scale @ A3 Checked 1:300 PJ Drawing No.

Nov 13 Date Checked

Revision 5420.3S.02.202 4



Neighbourhood Shops - North West Corner Perspective

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Revision	Description	Date	Initials



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Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title

Neighbourhood Shops -

Perspectives

Project Architect/Designer Drawn By Date Drawn M Urquhart Scale @ A3 Checked РJ

DH

Feb 14 Date Checked

Drawing No. 5420.3S.02.203 Revision

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Motel - Ground Floor Plan (<u>1</u>) (02.103)

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Revision	Description	Date	Initials
4	DA Issue	18.03.14	DH
5	DA Issue	16.04.14	DH

Client James Richmark Pty Ltd

Drawing Title Motel - Ground Floor

Project Architect/Designer Drawn By Date Drawn DH M Urquhart Scale @ A3 Checked for Construction Date Checked 1:300 PJ Drawing No. 5420.3S.02.301

Oct 13

Revision 5



Motel - First Floor Plan

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Revision	Description	Date	Initials
3	Preliminary Issue	27.02.14	MB
4	DA Issue	18.03.14	DH



Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title Motel - First Floor

Project Architect/Designer Drawn By Date Drawn M Urquhart DH Oct 13 Scale @ A3 Checked for Construction Date Checked 1:300 PJ . Drawing No. Revision 5420.38.02.302 4



Motel - Ground FFL FFL912.500

Motel - North Elevation - Part A 1 02.303 1:300









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Motel - Ground FFL FFL912.500



Key Plan 1:1500 @ A3

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-Legend-

BS	Batten Screen
G	Glazing
HSS	Horizontal Sun Screen
LC	Lightweight Cladding
PM	Painted Masonry
DMO	
PMC	Pre-coated Metal Cladding
SH	Pre-coated Metal Cladding Sun Hood
	8
SH	Sun Hood
SH TC	Sun Hood Textured Cladding

Note: This sheet has been re numbered from 5420.3S.04.301

Revision	Description	Date	Initials
2	Preliminary Issue	27.02.14	MB
3	DA Issue	18.03.14	DH





Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title Motel - Elevations

Project Architect/Designer Drawn By Date Drawn M Urquhart DH Scale @ A3 Checked As indicated PJ Drawing No.

Feb 14 Date Checked

5420.3S.02.303

Revision 3









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Motel - Ground FFL FFL912.500



Motel - Section - Foyer

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1:300

Motel - Ground FFL FFL912.500



Motel - Ground FFL FFL912.500

8 101.006 1:300 1

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Key Plan 1:1500 @ A3



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Motel - Ground FFL FFL912.500

-Legend-

BS	Batten Screen
G	Glazing
HSS	Horizontal Sun Screen
LC	Lightweight Cladding
PM	Painted Masonry
PMC	Pre-coated Metal Cladding
SH	Sun Hood
TC	Textured Cladding
TSF	Translucent Cladding
VSS	Vertical Sun Screen

Note: This sheet has been re numbered from 5420.38.04.302

3	DA Issue	18.03.14	DH
2	Preliminary Issue	27.02.14	MB
Revision	Description	Date	Initials





Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title

Motel - Elevations & Section

Project Architect/Designer M Urquhart	Drawn By DH	Date Drawn Feb 14
Scale @ A3 Checked		Date Checked
As indicated PJ		
Drawing No.		Revision
5420.3S.02.	304	3



Motel - North East Perspective 1

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Motel - Part North Perspective 3

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1	DA Issue	18.03.14	DH
Revision	Description	Date	Initials

Orange Private Hospital Site

James Richmark Pty Ltd

Project Architect/Designer Drawn By Date Drawn

DH

Feb 14

Revision

1

Date Checked

Motel - Perspectives

architects

Project

Client

Drawing Title

M Urquhart

Drawing No.

Scale @ A3 Checked

PJ

5420.3S.02.305

	GFA Schedule	
Building Type	Tenancy	GFA
Health	M	
1	Medical Suites	656 m ²
2	Medical Imaging	649 m ²
3	Shop	106 m ²
4	Shop	105 m ²
5	Chemist	227 m ²
6	Medical Suites	655 m²
7	Pathology / Suites/ Rehab.	1102 m ²
Ground - Common Area		165 m²
Level 1 - Common Area		180 m²
Motel		3845 m²
	Matal Organization	
	Motel - Ground Level	2055 m ²
		2055 m ² 2385 m ²
Retail	Level	
Retail 8	Level	2385 m²
	Level Motel - Level 1	2385 m ² 4440 m ²
8	Level Motel - Level 1 Hairdresser	2385 m ² 4440 m ² 102 m ²
8 9	Level Motel - Level 1 Hairdresser Shop	2385 m ² 4440 m ² 102 m ² 102 m ²
8 9 10	Level Motel - Level 1 Hairdresser Shop Shop	2385 m ² 4440 m ² 102 m ² 102 m ² 102 m ²
8 9 10 11	Level Motel - Level 1 Hairdresser Shop Shop Restaurant	2385 m ² 4440 m ² 102 m ² 102 m ² 102 m ² 293 m ²
8 9 10 11 12	Level Motel - Level 1 Hairdresser Shop Shop Restaurant Cafe	2385 m ² 4440 m ² 102 m ² 102 m ² 102 m ² 293 m ² 144 m ²
8 9 10 11 12 13	Level Motel - Level 1 Hairdresser Shop Shop Restaurant Cafe Convenience	2385 m ² 4440 m ² 102 m ² 102 m ² 293 m ² 144 m ² 207 m ²
8 9 10 11 12 13 14	Level Motel - Level 1 Hairdresser Shop Shop Restaurant Cafe Convenience Shop	2385 m ² 4440 m ² 102 m ² 102 m ² 293 m ² 144 m ² 207 m ² 118 m ²

1453 m²

Total Area Schedule				
Building Type	Area			
Health	3845 m ²			
Motel	4440 m ²			
Retail	1453 m ²			
Grand total	9739 m²			



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5	DA Issue	18.03.14	DH
4	Preliminary Issue	14.01.13	MB
Revision	Description	Date	Initials



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Project Orange Private Hospital Site

James Richmark Pty Ltd

Drawing Title GFA - Ground Level

Project Architect/Designer Drawn By M Urquhart DH Dec 13 Scale @ A3 Checked Date Checked 1:500 PJ Drawing No. Revision 5420.3S.06.001 5



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4	DA Issue	18.03.14	DH
3	Preliminary Issue	14.01.13	MB
Revision	Description	Date	Initials



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Project Orange Private Hospital Site

Client James Richmark Pty Ltd

Drawing Title GFA - Level 1

Project Architect/Designer Drawn By Date Drawn M Urquhart DH Scale @ A3 Checked 1:500 PJ Drawing No. 5420.35.06.002

Dec 13 Date Checked

Revision

4

Annexure B

Traffic and Parking Assessment by Terraffic Pty Ltd





ORANGE PRIVATE HOSPITAL DEVELOPMENT Forest Road, Orange

Traffic and Parking Assessment Report

22 April 2014

Ref: 14016

Prepared by

Terraffic Pty Ltd

Traffic and Parking Consultants

Suite 71, 23 MacMahon Street, Hurstville NSW 2220 – Tel : (02) 9570 5200 – Fax : (02) 9570 5300 Email: logan@terraffic.com.au Web: www.terraffic.com.au Terraffic Pty Ltd ABN 83 078 415 871

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2.	PROPOSED DEVELOPMENT	8
3.	PARKING ASSESSMENT	11
4.	SERVICING ASSESSMENT	17
5.	TRAFFIC ASSESSMENT	21

APPENDICES

- APPENDIX A PLANS OF PROPOSED DEVELOPMENT PREPARED BY TVS ARCHITECTS
- APPENDIX B TRAFFIC COUNT DATA
- APPENDIX C SIDRA MOVEMENT SUMMARY SHEETS FOR THE FOREST ROAD/BASE HOSPITAL/SUBJECT SITE ACCESS DRIVEWAY
- APPENDIX D SIDRA MOVEMENT SUMMARY SHEETS FOR THE FOREST ROAD NORTHERN SITE EXIT DRIVEWAY

LIST OF ILLUSTRATIONS

- FIGURE 1 LOCATION
- FIGURE 2 SITE
- FIGURE 3 FUTURE TRAFFIC SIGNAL CONTROL



1. INTRODUCTION

This report has been prepared to accompany a Section 75W Application to modify MP08_0232; MP08_0233; and MP07_0072 for the Orange Private Hospital development on the site known as No.3403, Lot 1, DP549856, Forest Road, Orange (Figures 1 and 2).

The site is located on the western side of Forest Road opposite the Orange Base Hospital. It has a frontage of approximately 260m to Forest Road and has an area of approximately 6 hectares. The site was formerly used as an outdoor drive-in cinema, but has been unused for approximately 11 years.

On the 23rd November 2008, the Minister for Planning approved Major Project No.07_0072 on the development site as follows:

Concept approval is granted only to carrying out the development solely within the concept plan area as described in the Environmental Assessment Report titled "Orange Private Hospital" prepared by JBA Urban Planning Consultants and dated February 2008 and the Preferred Project Report prepared by JBA Planning Consultants dated August 2008 (as amended). The concept plan includes 4 separate precincts:

- (1) Private hospital precinct
- (2) Medi -Motel precinct
- (3) Residential precinct
- (4) Hostel precinct

The development includes:

- a part two / part three-storey private hospital
- an 80-room Medi-Motel and 9 consultation suites
- short and medium-term accommodation for hospital staff and students
- a future precinct for residential dwellings and or apartments
- a future precinct for a lodge / hostel for patients and families of patients
- future child-care facilities and cancer care facilities
- a gymnasium
- ancillary retail activities (florist, newsagent and cafe/restaurant)



- internal roads and car parking, and
- landscaping
- a four way signalised intersection on Forest Road.

The "*Site Master Concept Plan*" prepared by TVS Architects for the proposed development is reproduced in the following pages. Table 1.1 shows a comparison between the approved and proposed developments. As can be seen, the development will retain the 4 precincts as per the approval and will comprise:

Precinct 1 – Hospital site
Precinct 2 – Neighbourhood shops, health facility and motel
Precinct $3 - 3 x$ residential flat buildings and a 100 space child care centre
Precinct 4 – 4 x residential flat buildings

Plans of Precinct 1 and 2 are reproduced in Appendix A. Detailed plans of Precincts 3 and 4 have not been prepared for the DA Submission and are in concept only.

The development site is served by Route 537 which is operated by Orange Buslines. A copy of the Route 537 timetable is reproduced below. As can be seen, the buses currently operate on a daily basis between Orange City Centre and the main entrance to the Orange Hospital.

ROUTE 537								HO		the state of the s									
						M	onday	- Frid	ay							1	Satu	rday	
Route	537	537	537	537	53	7 537	537	537	537	537	537	53	7 5	37	537	534"	537	534*	537
	am	am	am	am	ал	n am	pm	pm	pm	pm	pm	prr	n p	m	pm	am	am	pm	prn
	6		ę.		B		G.	E.			E.					6	E.	E	ę,
1 Orange Central/City Centre	6.40	8.00	8.4	9,40	+ 10,1	10 11.20	12.25	1.05	1.40+	2.10	2.40	3.1	0 4	55	5.15	9.00	11.00	12.45	2.20
5 Orange Railway Station	6.42	8,02	8.47	9,42	10,1	12 11.22	12,27	1,07	1.42	2.12	2.42	2	4.	57	5.17	~	11.02	-	2.22
42 Forest Rd/Tynan St	6.45	8.05	8.50	9.45	10.1	15 11 25	12.30	1.10	1.45	2.15	2.45	5 2	5.	00	5 20	9.08	11.05	12.53	2.25
71 Jack Brabham Park - Forest Road	6.46	8.06	8.5	9.46	10,1	16 11 26	12.31	1.11	1.46	2.16	2.46	3.3	5 5	01	5 21	9.09	11.06	12.54	2 20
													~ ~		= I		44 00	40 55	~ ~
70 Orange Hospital - Main Entrance	6.48	8.08	8.53	9.48	10,1	18 11.28	12.33	1.13	1.48	2.18	2.48	3,4	0 5.	03	5.23	9.10	11.08	12.55	2.2
	6.48	8,08	8.53	5 9.48	10.1										5.23	9.10	11.08	12.55	2.20
70 Orange Hospital - Main Entrance	6.48	8.08	8.53	5 9.48	10,1	ORA	NGE	IOSI	PITAL						5.23	9.10	11.08	12.55	2.20
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	537	8.08 537	8.53 537	- 11		ORA	NGE onday	IOSI	PITAL day							1	Satu		
ROUTE 537				534 am	537 am	ORA 1 537 53 am a	NGE onday 7 537	- Fri 537 pin	PITAL day 537	(fro	537 pm	IOSI	PITA	L)		534	Satu 537	ırday	537 pn
ROUTE 537	537	537	537	534	537 am	ORA 10 537 53	NGE onday 7 537	10SI - Fri 537	PITAL day 537	. (fro	537	10SF 537	PITA 537	L) 537	530	534	Satu 537	rday 534	53 pr
ROUTE 537	537 am	537	537 am	534 am	537 am	ORA 1 537 53 am a	NGE onday 7 537 n pm	IOSI - Frie 537 pin	PITAL day 537 pm	. (frc 537 pm	537 pm	10SF 537 pm	PITA 537 pm	537 pm	530	534 am	Satu 537 am	rday 534 pm	53 pr
ROUTE 537 Route 70 Orange Hospital - Main Entrance	537 am 537 7.03	537 am 7.35	537 am 8.08	534 am 8.53	537 am 9.48 1	ORA 10 537 53 am ai	NGE onday 7 537 n pm 5 30 12 35	1051 - Frie 537 pin 537	PITAL 537 pm 1.50	. (frc 537 pm 2.20	537 pm 5.0 2.50	1OSF 537 pm 3.40	PITA 537 pm 5.07	537 pm	530 ρm 6.15	534 am 534	Satu 537 am	534 pm	53 pr 23
ROUTE 537 Route 70 Orange Hospital - Main Entrance 71 Forest Rd/Sharp Rd	537 am 5 7.03 7.05	537 am 7.35	537 am 8.08	534 am 5.53 8.53 8.55	537 am 9.48 1 9.50 1	ORA 537 53 am al 53	NGE onday 7 537 n pm 530 12 35 32 12 37	HOSI - Fri 537 pin 537 1.15 1.15	PITAL 537 pm 1.50 1.52	537 pm 2.20 2.22	537 pm 5.50 2.50 2.52	537 pm 3.40 3.41	537 pm 5.07 5.09	537 pm 5.25 5.27	530 pm 6.15 6.17	534 am 5 9.10 9.11	Satu 537 am 53 11.10	534 pm	53 pn 23 23
ROUTE 537 Route 70 Orange Hospital - Main Entrance 71 Forest Rd/Sharp Rd	537 am 5.03 7.03 7.05 7.06	537 am 7.35 7.36	537 am 8.08	534 am 5.53 8.53 8.55 8.55 8.55	537 am 9.48 1 9.50 1 9.51 1	ORA 537 53 am at 6. 10.20 11. 10.22 11.	NGE onday 7 537 n pm 50 12 35 32 12 37 33 12 38	HOSI - Fri 537 pin 5. 1.15 1.15 1.17 1.18	PITAL 537 pm 1.50 1.52 1.53	537 pm 2.20 2.22 2.23	537 pm 2.50 2.52 2.53	537 pm 3.40 3.41 3.42	537 pm 5.07 5.09 5.10	537 pm 5.25 5.27 5.28	530 pm 6.15 6.17	534 am 9.10 9.11 9.12	Satu 537 am 53 11.10	534 pm 12.55 12.57 12.58	537 pn 2.30 2.31

Orange Buslines timetable effective from 4th July 2013









TERRAFFIC PTY LTD









Precinct 1	APPROVED DEVELOPMENT	PROPOSED DEVELOPMENT
Inpatient Unit	2,230m ² (60 beds)	4,500m ² (104 beds)
Administration Unit	325m ²	325m ²
General Support	680m ²	680m ²
Operating Unit (4 theatres)	1,715m ²	1,715m ²
Accident and Emergency	n/a	2,000m ²
Cancer Care Facility	1,400m ²	1,400m ²
Medical Imaging, pathology	2,000m ²	2,000m ²
Health Consulting Rooms	1,750m ²	n/a
Pharmacy	250m ²	n/a

Precinct 2	APPROVED DEVELOPMENT	PROPOSED DEVELOPMENT
Health Consulting Rooms	750m ²	1,311m ²
Rehabilitation Centre (Physio/chiro)	750m²	700m ²
Medical Imaging, pathology	n/a	1,050m ²
Gym/Health and Fitness	800m ²	n/a
Retail shops	500m ² (4 shops)	1,498m ² (11 shops)
Restaurant	n/a	293m ² (150 seats)
Motel (Public Rooms)	60 rooms	70 rooms
Motel (Patient Suites)	20 rooms	12 rooms
Motel Restaurant	150m ² (100 seats)	130m ² (90 seats)
Motel Function Room	n/a	140m ²

Precinct 3	APPROVED DEVELOPMENT	PROPOSED DEVELOPMENT
Residential Flat Buildings	n/a	59 x 2 bedroom units
Child Care Centre	20 children	100 children
Hostel	100 x 1 bedroom units	n/a

Precinct 4	APPROVED DEVELOPMENT	PROPOSED DEVELOPMENT
Residential Flat Buildings	114 x 2 bedroom units	157 x 2 bedroom units

Table 1.1 - Comparison between approved and proposed developments



The purpose of this report is to assess the traffic and parking implications of the development proposal. To that end, this report:

- describes the site and provides details of the development proposal
- assesses the adequacy and suitability of the quantum of off-street carparking provided on the site
- assesses the adequacy and suitability of the loading facilities provided on the site
- reviews the geometric design features of the proposed carparking facilities for compliance with the relevant codes and standards
- reviews the road network in the vicinity of the site, and the traffic conditions on that road network
- estimates the traffic generation potential of the existing approved and proposed developments and assigns the additional traffic generation to the road network serving the site
- assesses the traffic implications of the development proposal in terms of road network capacity



2. **PROPOSED DEVELOPMENT**

As noted in the foregoing, the proposed development will retain the four approved precincts on the site and will comprise the following:

Precinct 1 (Hospital Site)	GFA(m ²)	Staffing Levels	Hours operation
Inpatient Unit (104 rooms)	4500	30	24 hours
Administration Unit	325	10	7am-6pm
General Support	680	20	8am-6pm
Operating Unit (4 theatres)	1715	20	7am-6pm
Accident and Emergency	2000	10	8am-6pm
Cancer Care Facility	1400	20	8am-6pm
Medical Imaging, Pathology	2000	20	8am-6pm
Total Precinct 1 Hospital	12620	130	

Precinct 2 (Health Facilities,	Neighbourhood Shops and Mote	e l)
Health Facilities	GFA(m ²)	Staffing

Health Explicition		•	Hours operation
Health Facilities	GFA(m ²)		Hours operation
Health Consulting Rooms (8 Practioners + 2 staff)	1311	10	8am-6pm
Rehabilitation Centre (8 Practioners + 2 staff)	700	10	8am-6pm
Imaging and pathology (8 Practioners + 10 staff)	1050	18	8am-6pm
Total Precinct 2 Health Facility	3061	38	
Shopping Centre	GFA(m²)	Staffing Levels	Hours operation
11 Retail Shops	1498	20	8am-5pm
Restaurant	GFA(m²)	Staffing Levels	Hours operation
Restaurant (150 seats - <u>dinner only</u>)	293	8	6pm - 11pm
Motel	GFA(m²)	Staffing Levels	Hours operation
70 Motel Rooms for Public (1 resident manager and 2 staff)	n/a	3	24 hours
12 Motel Rooms for Patients	n/a	n/a	24 hours
Motel Restaurant (90 seats generally guests only)	130	4	6am-10am, 6pm-11pm
Function Room (night time use only)	140	5	6pm - 11pm
Total Precinct 2 Motel	270	12	
Precinct 3 (Residential and Child Care Centre Site)	GFA(m²)	Staffing Levels	Hours operation
Approximately 59 x 2 bedroom apartments	n/a	n/a	n/a
100 space Child Care Centre	n/a	12	7am - 6pm
Total Precinct 3		12	
Precinct 4 (Residential Apartments)	GFA(m²)	Staffing Levels	Hours operation
Approximately 157 x 2 bedroom apartments	n/a	n/a	n/a
Total Precinct 4			





The proposed development will be served by a total of 617 off-street car parking spaces as follows:

Precinct 1	101 spaces (including 6 disabled spaces) serving the hospital
Precinct 2	116 spaces (including 7 disabled spaces) serving the health facilities and
	retail shops
	72 spaces serving the motel comprising 70 guest and 2 staff parking spaces.
	This parking provision includes 5 disabled guest spaces
Precinct 3	83 spaces serving the 59 residential units
	25 spaces serving the 100 place Child Care Centre
Precinct 4	220 spaces serving the 157 residential units
Total	617 spaces

In addition to these spaces, there are 41 parallel parking spaces on the internal road network serving the site. Once these roads are constructed to provide access to Precincts 3 and 4, these on-street parking spaces will be available as surplus parking for the overall development.

The approved access arrangements serving the site off Forest Road will be retained and comprise the following:

- A new 4-way signalised intersection that will connect the site to the main access driveway serving the Orange Base Hospital which is located on the eastern side of Forest Road. The new signals will include pedestrian crossings on each leg of the intersection to enhance pedestrian safety.
- Left turn **exit only** movements from a northern access driveway

A plan of the main site access and future traffic signal controls is reproduced on Figure 3.









3. PARKING ASSESSMENT

Car Parking Requirements

Orange Development Control Plan 2004 (30 June 2007) specifies the following parking requirements which are relevant to the proposed development:

Hospital	 1 space for every 3 beds + 1 space each resident doctor and 1 space for every 2 visiting doctor + 1 space for every 2 employees.
Health Consulting Rooms	2 spaces for every 1 practitioner with spaces being available for customer and staff use.
Motel	 1 space per unit + 1 space for each resident manager + 1 space for every 2 employees + 1 space for every 3 seats in a restaurant + 1 space per 10m² of entertainment or function room areas
Restaurants	1 space per $10m^2$ GFA or 1 space for every 3 seats, whichever is greater
Childcare Centre	1 space for every 4 children in attendance
Residential Units	1-bedroom unit - 1.0 space per unit 2-bedroom unit - 1.2 spaces per unit 3 (or more) bedroom unit - 1.5 spaces per unit Visitors - 0.2 spaces per unit
Shops and Shopping Centres	6.1 spaces per 100m ² GLFA

Dual and Complimentary Use of Parking

The Council's parking requirements do not consider the *Dual and Complementary* use of parking that will occur on the site.

Dual use of parking spaces occurs when patrons of one component of a development also patronise another. For example, a proportion of staff and visitors to the proposed hospital and medical facility can also be expected to patronise the retail shops in Precinct 2. Not only will this reduce the parking requirements for the proposed medical facility, it also has the potential to reduce the traffic generating potential of visitors to the site.



In addition, another form of *Dual use* parking is that a proportion of residents in the Precinct 3 and 4 residential flat buildings will be employees of the health facilities and retail shops on the site and possibly the Orange Base Hospital. These residents will be allocated an on-site parking space within the residential precinct and will not require an additional car space in either Precinct 1 or 2. These residents will ultimately reduce the overall parking demand and traffic generation of the proposed development site.

Complementary use of parking spaces occurs when the peak parking demand of one component of a development does not coincide with the peak parking demand of another. In this case, the peak parking demand of the restaurant or the function centre in the motel is at night after 6pm, whereas the peak parking demand of the retail shops and health facilities in Precinct 2 is throughout the day.

Modifications to DCP Parking Requirements

When taking into account the dual and complimentary use of carparking, this assessment has slightly modified the following DCP parking requirements:

- 1. The parking requirement for the retail floorspace (6.1 spaces per $100m^2$) is excessive because it is unlikely that the general public will travel to the site to visit the café/florist/gift/newsagent stores. Furthermore, a high percentage of shoppers will already be on the site or will be generated by the Base Hospital on the eastern side of Forest Road (*dual use*). In these circumstances, the parking requirement for that retail floorspace will adopt the Council DCP rate of 4.1 spaces per $100m^2$ which applies to shops in the CBD.
- 2. The parking requirement specified for the motel rooms (1 space per room) is excessive because 12 of the rooms will be medical suites occupied by persons who are bedridden. Accordingly, the requirement of 1 space per room has been applied to 70 standard rooms.
- 3. The parking requirement for the restaurant incorporated in Precinct 2 will only apply during the night when the restaurant will be operational. As noted in the foregoing,



this approach is applying the principle of *complementary use* of parking on the site. In addition, it is likely that some restaurant patrons will be staff/visitors to the hospital or guests of the motel who are already in the area. This includes staff and visitors to the Base Hospital on the eastern side of Forest Road. To that end, the restaurant will also be also adopting the *dual use* principle.

- 4. The parking requirement for the restaurant incorporated in the motel is excessive because a substantial proportion of restaurant patronage, if not all of it, will be drawn from motel guests and patients. In addition there will be a proportion of staff and visitors of the proposed hospital in Precinct 1 and the existing Base Hospital opposite the site. In these circumstances, the parking requirement for the motel restaurant (1 space per 3 seats) has been reduced to 20% of the requirement and will apply during the night only. These additional restaurant patrons who are not already in the area will utilise the remaining Precinct 2 parking spaces allocated to the health facility and retail shops that will be closed at that time (*complementary use*)
- 5. As per the restaurants on the site, the motel function room is expected to only operate at nights when the health facilities and retail shops are closed on Precinct 2. To that end, the parking requirement of 1 space per $10m^2$ for the motel function room will apply at night time only. Furthermore, it is expected that some of the function guests will also be motel guests who have already parked on the site (*dual use*).
- 6. As the hospital in Precinct 1 will be operational 24 hours a day, this assessment has assumed that the nighttime workforce parking demand will be 20% of the daytime peak. As the visitor peak is typically at nights, the parking demand for the visitor component of the parking requirement will apply during the evening (ie 35 spaces).

In addition, this assessment has assumed that the proposed health facilities in Precinct 2 will have a total of 24 practitioners on-site at any given time. As can be appreciated, this is a conservative approach as specialists (such as surgeons and physiotherapists) tend to operate between hospitals and their office and may only be on-site on a given day.



Parking Calculations

Those parking requirements, with appropriate modifications, are applied to each component of the proposed development in Table 3.1 indicating a total parking requirement of up to 616 spaces during the <u>daytime</u> comprising:

DAYTIME PARKING REQUIREMENT

Precinct 1	Hospital	100 spaces
Precinct 2	Health Facility	55 spaces
	Retail Shops	61 spaces
	Motel	72 spaces
	(Precinct 2 Sub-total	188 spaces)
Precinct 3	Residential	83 spaces
	Child Care Centre	25 spaces
	(Sub-total	108 spaces)
Precinct 4	Residential	220 spaces
Total Requirem	616 spaces	

Application of the modified parking requirements to take into account *dual and complementary use* of parking indicates a total parking requirement in Table 3.2 of up to 495 spaces during the <u>nighttime</u> comprising:

NIGHTTIME PARKING REQUIREMENT

Precinct 1	Hospital	48 spaces			
Precinct 2	Restaurant	50 spaces			
	Motel	72 spaces			
	Motel restaurant	8 spaces			
	Motel function room	14 spaces			
	(Precinct 2 Sub-total	144 spaces)			
Precinct 3	Residential	83 spaces			
Precinct 4	Residential	220 spaces			
Total Requiren	Total Requirement				

As noted in the foregoing, the proposed development makes provision for a total of 617 parking spaces, satisfying the likely daytime and nighttime demand of the proposed uses.



In addition, the development contains 41 parallel parking spaces on the internal road network serving Precincts 3 and 4. Once these precincts have been developed, these 41 spaces will be available as surplus parking for the overall development.

In the circumstances, it can be concluded that the parking provision incorporated in the development proposal is adequate such that the proposed development has no unacceptable parking implications.



Development Site Daytime Parking Requirements

Precinct 1 (Hospital Site)	GFA(m ²)	Staffing Levels	Parking Requirement	Req'd spaces	Staff parking	Visitor parking
Inpatient Unit (104 rooms)	4500	30	1 space per 3 beds	50	0	35
inpatient Onit (104 100ms)	4500	30	+ 1 space per 2 employees and visiling doctors	1 50	15	0
Administration Unit	325	10	1 space per 2 employees	5	5	0
General Support	680	20	1 space per 2 employees	10	10	0
Operating Unit (4 theatres)	1715	20	1 space per 2 employees and visiting doctors	10	10	0
Accident and Emergency	2000	10	1 space per 2 employees and visiting doctors	5	5	0
Cancer Care Facility	1400	20	1 space per 2 employees and visiting doctors	10	10	0
Medical Imaging, Pathology	2000	20	1 space per 2 employees and visiting doctors	10	10	0
Total Precinct 1	12820	130		100	65	35
Precinct 2 (Health Facilities, Neighbourhood Shops and Motel)	GFA(m²)	Staffing Levels	Parking Requirement	Req'd spaces	Staff parking	Visitor parking
Health Facilities						
Health Consulting Rooms (8 Practioners)	1311	8	2 spaces per 1 practioner with space for customers	16	8	8
Consulting Room support staff		2	1 space per 2 employees	1	1	0
Rehabilitation Centre (8 practioners)	700	8	2 spaces per 1 practioner with space for customers	16	8	8
Rehabilitation Centre support staff		2	1 space per 2 employees	1	1	0
Imaging and pathology (8 Practioners)	1050	8	2 spaces per 1 practioner with space for customers	16	8	8
Imaging and pathology support staff		10	1 space per 2 employees	5	5	0
Total Precinct 2 Health Facility	3061	38			31	24
Shopping Centre						
11 Retail Shops	1498	20	4,1 spaces per 100m ²	61	10	51
Restaurant						
Restaurant (150 seats - dinner only)	293	8	not applicable		0	0
Motel						
70 Motel Rooms for Public			1 space per unit	70	0	70
12 Motel Rooms for Patients			not applicable	0	0	0
Motel staff (1 resident manager and 2 staff)		3	1 space per resident manager + 1 space per 2 employees	2	2	0
Motel Restaurant Patrons (90 seats)	130		not applicable	0	0	0
Motel Restaurant Staff		4	not applicable	0	0	0
Function Room	140	5	not applicable	0	0	0
Total Precinct 2 Motel	270	12		72	2	70
Total Precinct 2				188	43	145
Precinct 3 (Residential and Child Care Centre Site)	GFA(m²)	Staffing Levels	Parking Requirement		Resident /Staff parking	Visitor parking
Approximately 59 x 2 bedroom apartments			1,2 spaces per dwelling + 1 space per 5 for visitors		71	12
100 space Child Care Centre		12	1 space per 4 children (includes staff parking)		6	19
Total Precinct 3		12		108	77	31
Precinct 4 (Residential Apartments)	GFA(m²)	Staffing Levels	Parking Requirement		Resident parking	Visitor parking
Approximately 157 x 2 bedroom apartments			1,2 spaces per dwelling + 1 space per 5 for visitors	220	189	31
Total Precinct 4				220	189	31
TOTAL DEVELOPMENT DAYTIME	ONLY			616	374	242



Development Site Nighttime Parking Requirements

Precinct 1 (Hospital Site)	GFA(m²)	Staffing Levels	Parking Requirement	Req'd spaces	Staff parking	Visitor parking
Inpatient Unit (104 rooms)	4500	30	1 space per 3 beds	38	0	35
inpatient Onit (104 rooms)	4300	30	1 space per 2 employees and visiting doctors x 20%	30	3	0
Administration Unit	325	10	1 space per 2 employees x 20%	1	1	0
General Support	680	20	1 space per 2 employees x 20%	2	2	0
Operating Unit (4 theatres)	1715	20	1 space per 2 employees and visiting doctors x 20%	2	2	0
Accident and Emergency	2000	10	1 space per 2 employees and visiting doctors x 20%	1	1	0
Cancer Care Facility	1400	20	1 space per 2 employees and visiting doctors x 20%	2	2	0
Medical Imaging, Pathology	2000	20	1 space per 2 employees and visiting doctors x 20%	2	2	0
Total Precinct 1	12620	130		48	13	35
Precinct 2 (Health Facilities, Neighbourhood Shops and Motel)	GFA(m²)	Staffing Levels	Parking Requirement	Req'd spaces	Staff parking	Visitor parking
Health Facilities						
Health Consulting Rooms (5 Practioners)	1311	0	not applicable	0	0	0
Consulting Room support staff		0	not applicable	0	0	0
Rehabilitation Centre (8 practioners)	700	0	not applicable	0	0	0
Rehabilitation Centre support staff		0	not applicable	0	0	0
Imaging and pathology (8 Practioners)	1050	0	not applicable	0	0	0
Imaging and pathology support staff		0	not applicable	0	0	0
Total Precinct 2 Health Facility	3061	0			0	0
Shopping Centre						
11 Retail Shops	1498	0	not applicable	0	0	0
Restaurant						
Restaurant (150 seats - dinner only)	293	8	1 space per 10m ² or 1 space per 3 seats	50	4	46
Motel						
70 Motel Rooms for Public	-		1 space per unit	70	0	70
12 Motel Rooms for Patients			not applicable	0	0	0
Motel staff (1 resident manager and 2 staff)		3	1 space per resident manager + 1 space per 2 employees	2	2	0
Motel Restaurant Patrons (90 seats)	130		1 space per 3 seats x 20%	6	0	6
Motel Restaurant Staff		4	1 space per 2 employees	2	2	0
Function Room	140	5	1 space per 10m ²	14	2	12
Total Precinct 2 Motel	270	12		94	6	88
Total Precinct 2				144	10	134
Precinct 3 (Residential and Child Care Centre Site)	GFA(m²)	Staffing Levels	Parking Requirement		Resident /Staff parking	Visitor parking
Approximately 59 x 2 bedroom apartments			1,2 spaces per dwelling + 1 space per 5 for visitors		71	12
100 space Child Care Centre		0	not applicable		0	0
Total Precinct 3		12		83	71	12
Precinct 4 (Residential Apartments)	GFA(m²)	Staffing Levels	Parking Requirement		Resident parking	Visitor parking
Approximately 157 x 2 bedroom apartments			1,2 spaces per dwelling + 1 space per 5 for visitors	220	189	31
Total Precinct 4				220	189	31
TOTAL DEVELOPMENT DAYTIME				495	279	166

Table 2.2	Nighttime	Doulting	Requirements
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4. SERVICING ASSESSMENT

The Australian Standards AS/NZS2890.1:2004 - "Off-street car parking facilities" and AS2890.2:2002 - "Off-street commercial vehicle facilities" identify the following categories of trucks and delivery vehicles:

Standard	Vehicle class	Length	Width	Clearance height	Design turning radius
AS2890.1	B99 courier van	5.2m	1.94m	2.2m	6.3m
AS2890.2	Small Rigid Vehicle (SRV)	6.4m	2.3m	3.5m	7.1m
AS2890.2	Medium Rigid Vehicle (MRV)	8.8m	2.5m	4.5m	10.0m
AS2890.2	Heavy Rigid Vehicle (HRV)	12.5m	2.5m	4.5m	12.5m
AS2890.2	Articulated Vehicle (AV)	19.0m	2.5m	4.5m	12.5m

Precinct 1: Private Hospital Deliveries

The proposed development will retain the 2 loading docks that were approved to serve the hospital development. The loading docks are required to accommodate the commercial vehicles transporting food, linen, medical supplies, office equipment and provisions to the hospital, and transporting waste from the hospital.

The vehicles used in those activities are expected to comprise predominantly vans and the SRV, with some deliveries via the MRV and the HRV. Articulated vehicles (AV) are not expected to be involved in deliveries to/from the site.

While the number of commercial vehicle trips generated by the Private Hospital will be variable, it is expected that the maximum daily commercial vehicle generation will be in the order of 20 vehicles per day (40 vehicle trips per day) as follows:



Precinct 1 (Hospital Site)	GFA(m²)	Hours operation	Deliveries per day	Deliveries per week
Inpatient Unit (104 rooms)	4500	24 hours	4 x vans/SRVs + 4 MRV/HRV's	28 x vans/SRVs + 28 MRV/HRV's
Administration Unit	325	7am-6pm	1 courier van	5 courier vans
Operating Unit (4 theatres)	1715	7am-6pm	4 courier vans	28 courier vans
Accident and Emergency	2000	8am-6pm	4 courier vans/SRV's	28 courier vans
Cancer Care Facility	1400	8am-6pm	1 courier van	5 courier vans
Medical Imaging, Pathology	2000	8am-6pm	2 courier van	10 courier vans
Total Precinct 1 Hospital	11940		20 deliveries	132 deliveries

All delivery vehicles accessing the hospital precinct and loading docks will enter via the Forest Road traffic signals. The ability of the heavy rigid vehicle to access the site and manoeuvre to/from the loading dock has been tested using the AutoTrack computer simulation software. This test found that the HRV can comfortably access the site and the loading docks incorporated in the proposed Private Hospital.

Precinct 2: Health Facilities, Neighbourhood Shops and Motel Deliveries

The proposed health facility is not served by a dedicated loading dock like the hospital in Precinct 1. Couriers making deliveries to this facility in vans will utilise the off-street parking area serving this component of the Precinct 2 development. Deliveries by larger commercial vehicles are not expected to occur for the health facility.

The neighbourhood shopping area contains 2 separate loading areas capable of accommodating Medium Rigid Vehicles. The loading docks are located at the eastern and western ends of the development and will provide convenient access to each shop.

The motel will also be served by a loading area capable of accommodating the Medium Rigid Vehicle. The motel is expected to generate commercial vehicles transporting predominantly food, liquor, linen and other provisions to the motel, and transporting waste from the motel. The vehicles used in those activities are expected to comprise predominantly vans, with some deliveries using the SRV and the MRV.


While the number of commercial vehicle trips generated by the uses in Precinct 2 will be variable, it is expected that the maximum daily commercial vehicle generation will be in the order of 30 vehicles per day (60 vehicle trips per day) as follows:

Precinct 2 (Health Facilities, Neighbourhood Shops and Motel)	GFA(m²)	Hours operation	Deliveries per day	Deliveries per week
Health Facilities				
Health Consulting Rooms	1311	8am-6pm	1 courier van	5 courier vans
Rehabilitation Centre	700	8am-6pm	1 courier van	5 courier vans
Imaging and pathology	1050	8am-6pm	1 courier van	5 courier vans
Total Precinct 2 Health Facility	3061		3 deliveries	15 deliveries
Shopping Centre				
11 Retail Shops	1498	8am-5pm	20 x courier vans/SRV's	100 x courier vans/SRV's
Restaurant				
Restaurant	293	6pm - 11pm	2 courier vans/SRV's	10 courier vans/SRV's
Motel				
Motel Rooms	na	24 hours	1 courier van/SRV	5 courier vans/SRV's
Motel Restaurant	100	6am-10am, 6pm-11pm	2 courier van/SRV's	10 courier vans/SRV's
Function Room	140	6pm - 11pm	1 courier van	5 courier vans
Total Precinct 2 Motel	240		4 deliveries	20 deliveries

The ability of medium rigid vehicles to access the site and manoeuvre to/from the loading areas serving each use in Precinct 2 has also been tested using the AutoTrack computer simulation software. This test found that the MRV can comfortably access the site and the loading areas.

Precinct 3: Child Care Centre and Residential Unit Deliveries

Deliveries to the childcare centre are expected to be only minor, comprising 3 to 4 vehicle trips per day in vans or SRV's. Childcare centres typically avoid deliveries during peak child set-down/pick-up periods and utilise the empty carpark outside of the AM and PM peak periods.



Precinct 3 and 4: Residential Unit Deliveries

While the residential component of the proposed development will generate commercial vehicle activity associated with residents moving into and out of the precinct, and some service vehicle activity for residents living there, this commercial vehicle activity will not be frequent nor regular, or of a level that is likely to have any significant traffic implications.

Based on these assumptions, the overall development will generate in the order of 45 to 50 deliveries per day ranging from courier vans to Heavy Rigid Vehicles. This level of activity equates to no more than 10 deliveries to the site during the morning and evening peak periods. This commercial vehicle activity will not be of a level that is likely to have any significant traffic implications.

In the circumstances, the proposed medical facility will have no unacceptable servicing implications.



5. TRAFFIC ASSESSMENT

Existing Road Network

Forest Rd is classified by the RMS as a Regional Road performing a sub-arterial road function. The section of Forest Rd in the vicinity of the site is constructed to a two-lane rural road standard with a sealed carriageway approximately 6.5m wide between edge lines with a 500mm bitumen shoulder on each side.

As can be seen in the aerial photograph below, the main access driveway serving the Orange Base Hospital opposite the subject site is controlled by a sea-gull treatment. Traffic making a right turn into the site are within a protected lane and do not obstruct northbound traffic. Vehicles making a right turn from the Hospital turn into a protected merge lane.



Aerial photograph of existing Base Hospital access arrangements

Orange City Council has engaged GHD to prepare roadwork plans for the upgrade of Forest Road and in particular the provision of traffic signals at the intersection of Forest Road, the Base Hospital and the subject site. The plan of these proposed access arrangements was reproduced earlier in this report on Figure 3.



Existing Traffic Conditions

An indication of the existing traffic conditions on the road network in the vicinity of the site is provided by peak period traffic surveys undertaken at the intersection of Forest Road and Base Hospital main access driveway between 7.00-9.00am and 4.00-6.00pm on Friday 7th march 2014. The results of the traffic surveys are reproduced in full in Appendix B and reveal that:

- the morning peak period occurs between 7.45-8.45am. At that time, the traffic flow on Forest Road to the north of the access driveway was 792 vehicles per hour (vph), while to the south of the driveway there were only 474vph
- during the morning peak, the Base Hospital generates in the order of 352vph with 95% of that traffic approaching from the north and departing to the north
- the evening peak period occurs between 4.15-5.15pm. At that time, the traffic flow on Forest Road to the north of the access driveway was 845vph, while to the south of the driveway there were 542vph
- during the evening peak period, the Base Hospital generates in the order of 317vph with 95% of that traffic approaching from the north and 99% departing to the north

Traffic Generating Potential of Proposed Medical Facility

Section 3.11 of the RMS publication "*Guide to Traffic Generating Developments*" (October 2002) specifies the following traffic generating rates that can apply to the proposed development:

Private Hospitals

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AM Peak Period = -10.21 + 0.47 B + 0.06 ASDS
PM Peak Period = -2.84 + 0.25 B + 0.40 ASDS
Where:
```



B - No of beds

ASDS - Average number of staff per weekday shift.

Specialty Shops

Evening Peak Periods 4.6vtph per 100m²

Restaurant

Evening peak hour vehicle trips 5vtph per 100m²

Motel

Evening peak hour vehicle trips 0.4 per unit

Child Care Centre

AM peak period	0.8 vtph per child
PM peak period	0.7 vtph per child

Residential Flat Buildings (up to 2 bedroom units)

Peak periods 0.4-0.5vtph per unit

As the Guidelines do not provide a traffic generation rate for the professional consulting rooms, the rehabilitation centre and the imaging and pathology services, this assessment will adopt a *"first principles"* approach to determine an appropriate traffic generation for these components of the Precinct 2 "Health Facilities".

The "first principles" approach will be based on the following:

- 1. The number of spaces allocated to long-term (staff) parking
- 2. The number of spaces allocated to short-term (patient/visitor) parking
- 3. The number of consulting rooms or doctors/professionals
- 4. An appropriate patient turnover for each doctor/professional per hour
- 5. An appropriate car driver rate for visitors/patients

Traffic Generation of Precinct 2 Health Facilities

The parking requirements for the Precinct 2 Health Facilities calculated in Chapter 3 of this report comprise the following:





Consulting Rooms (8 practitioners and 2 staff) Rehabilitation Centre (8 practitioners and 2 staff) Imaging/Pathology (8 practitioners and 10 staff) **Total Requirement (21 practitioners and 14 staff)** 9 staff spaces plus 8 visitor spaces
9 staff spaces plus 8 visitor spaces
13 staff spaces plus 8 visitor spaces
31 staff spaces plus 24 visitor spaces

While the centre is open between 8.00am and 6.00pm, it is unlikely that all practitioners will start at 8.00am and finish at 6.00pm. Furthermore, it is unlikely that all 24 specialists (such as surgeons and physiotherapists) will be on-site at any given time as they tend to operate between hospitals and their office. However, in order to prepare a robust assessment, it has been assumed that all practitioners and staff will arrive during the morning peak and depart during the evening peak. To that end, there will be 31 staff vehicles entering the site in the morning peak and 31 staff vehicles departing during the evening peak.

As can be appreciated, patients visiting a specialist are required to make an appointment which evenly distributes their traffic and parking generation throughout the day. In addition, a proportion of these visitors will utilise the local bus service that services the site. Notwithstanding this assessment will assume that:

- each practitioner will have a continual patient turnover of 1 visitor every 30 minutes,
 i.e. 2 patients per hour
- each visitor will drive to the site

As there are 24 practitioners, the visitor traffic generation will be as follows:

AM Peak48 inbound vehicle trips + 24 outbound vehicle tripsPM Peak24 inbound vehicle trips + 48 outbound vehicle trips

To that end, the proposed health facilities will have the following peak period traffic generating characteristics:

AM Peak72 inbound + 24 outbound = 96 vehicle tripsPM Peak24 inbound + 72 outbound = 96 vehicle trips



Traffic Generation of Remaining Components

Application of the abovementioned RMS traffic generating rates to the remaining components of the proposed development yields the following:

Precinct 1:

AM Peak Period	$= -10.21 + (0.47 \times 104 \text{ beds}) + (0.06 \times 130 \text{ staff}) = 46 \text{vtph}$
PM Peak Period	= -2.84 + (0.25 x 104 beds) + (0.40 x 130 staff) = 75 vtph

Precinct 2:

Specialty Shops	
AM Peak Period	$1,498m^2$ @ $4.6vtph$ per $100m^2 = 69vtph$
PM Peak Period	$1,498m^2$ @ $4.6vtph$ per $100m^2 = 69vtph$

Restaurant

AM Peak Period	closed
PM Peak Period	$293m^2$ @ 5vtph per $100m^2 = 15vtph$

Motel (does not include patient rooms)

AM Peak Period = 70 motel rooms @ 0.4vtph per room = 28vtph PM Peak Period = 70 motel rooms @ 0.4vtph per room = 28vtph

Motel Restaurant

AM Peak Period	closed
PM Peak Period	$130m^2$ @ 5vtph per $100m^2 = 7vtph$

Precinct 3:

Child Care Centre	
AM Peak Period	100 children @ $0.8vtph$ per child = $80vtph$
PM Peak Period	100 children @ 0.7vtph per child = 70 vtph

Residential

AM Peak Period	59 units @ 0.4vtph per unit = $24vtph$
PM Peak Period	59 units @ 0.4vtph per unit = 24vtph





Precinct 4:	
Residential	
AM Peak Period	157 units @ 0.4vtph per unit = 63 vtph
PM Peak Period	157 units @ 0.4vtph per unit = 63 vtph

Based on the RMS generic traffic generation rates and first principle assumptions, the proposed development will generate in the order of 406vtph during the morning peak and 457vtph during the evening peak as follows:

AM PEAK PERIOD TRAFFIC GENERATION			
Use	Inbound	Outbound	Total
Precinct 1 Hospital	36	10	46
Precinct 2 Health Facility	72	24	96
Precinct 2 Specialty Shops	49	20	69
Precinct 2 Restaurant	0	0	0
Precinct 2 Motel	8	20	28
Precinct 2 Motel Restaurant	0	0	0
Precinct 3 Child Care Centre	45	35	80
Precinct 3 Residential	6	18	24
Precinct 4 Residential	13	50	63
Total Development	229	177	406



PM PEAK PERIOD TRAFFIC GENERATION			
Use	Inbound	Outbound	Total
Precinct 1 Hospital	15	60	75
Precinct 2 Health Facility	24	72	96
Precinct 2 Specialty Shops	20	49	69
Precinct 2 Restaurant	12	3	15
Precinct 2 Motel	20	8	28
Precinct 2 Motel Restaurant	5	2	7
Precinct 3 Child Care Centre	35	45	80
Precinct 3 Residential	18	6	24
Precinct 4 Residential	50	13	63
Total Development	199	258	457

That traffic projected traffic generation potential has been assigned to the road network serving the site generally reflecting the origin/destination characteristics of the surveyed traffic generation of the existing Base Hospital as follows:

To/from North 95% To/from South 5%



Traffic Growth of Forest Road

The Traffic and Parking Assessment Report prepared for the approved development by John Coady Consulting Pty Ltd (dated 1 July 2008) received the following information from Orange City Council with regard to traffic growth along Forest Road:

- The average daily traffic flows on Forest Rd in the vicinity of the proposed development site are in the order of 6,500 vehicle trips per day, and grew at an average annual rate of 3.9% in the period 1998 to 2005.
- The AM peak hour traffic flows are in the order of 520 vtph and grew at an annual rate of 3.0% per annum between 1998 and 2005, while the PM peak traffic flows are in the order of 600 vtph and grew at an annual rate of 3.7% between 1998 and 2007.

This report will continue to assume a 4% annual increase in traffic flow over next 10 years. The current traffic flows accessing the Orange Base Hospital will not be increased. To that end, the 2024 base flows on Forest Road travelling past the site will be as follows:

Direction	2014 Traffic Flow	2024 Traffic Flow
AM Northbound	236	349
AM Southbound	238	352
PM Northbound	337	499
PM Southbound	205	303

Traffic Implications of Proposed Development

The main traffic implications of the proposed development concern the ability of traffic that it generates to access the site via the two access points off Forest Rd (ie the new traffic signals serving the site and the Base Hospital and the northern left out only access driveway).



The ability of these intersections to accommodate the projected post-development traffic demand can be assessed using the SIDRA traffic model, and criteria for interpreting the results of SIDRA analysis are set out on the schedule reproduced in the following pages.

The access points off Forest Rd were modelled under projected future (2024) traffic demand and include the current traffic generation characteristics of the Base Hospital on the eastern side of Forest Road.

The results of that SIDRA analysis are set out in Table 5.1 (Traffic Signals) and Table 5.2 (northern access driveway) revealing that both intersections operate satisfactorily under projected traffic demand in 2024.

The Sidra Movement Summary Sheets for the Forest Road/Base Hospital/Subject Site Main Access are reproduced in Appendix C, while the Movement Summary Sheets for the Forest Road Northern Exit Driveway are reproduced in Appendix D.

TABLE 5.1 – RESULTS OF SIDRA ANALYSIS OF FOREST ROAD ANDBASE HOSPITAL / MAIN SITE ACCESS INTERSECTION

2024 Conditions	Level of Service	Degree of Saturation	Total Average Vehicle Delay (sec)
AM Peak	В	0.631	15.5
PM Peak	В	0.701	15.3

TABLE 5.2 – RESULTS OF SIDRA ANALYSIS OF FOREST ROAD AND

NORTHERN EXIT DRIVEWAY

2024 Conditions	Level of Service	Degree of Saturation	Total Average Vehicle Delay (sec)	
AM Peak	А	0.439	0.6	
PM Peak	А	0.450	1.3	

In the circumstances, it can be concluded that the proposed development has no unacceptable traffic implications.



Criteria for Interpreting Results of SIDRA Analysis

1. Level of Service (LOS)

LOS	Traffic Signals and Roundabouts	Give Way and Stop Signs				
'A'	Good operation.	Good operation.				
'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	At capacity and requires other control mode.				
	excessive delays. Roundabouts require other					
'F'	control mode.	Unsatisfactory and requires other control mode.				
	Unsatisfactory and requires additional capacity.					

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, Roundabout	Give Way and Stop Signs
A	less than 14	Good operation.	Good operation.
В	15 to 28	Good with acceptable delays and spare capacity.	Acceptable delays and spare capacity.
С	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 signals¹ 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.

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



TERRAFFIC PTY LTD

APPENDIX A

PLANS OF PROPOSED DEVELOPMENT PREPARED BY TVS ARCHITECTS











APPENDIX B

TRAFFIC COUNT DATA



Forest Road and Base Hospital Access Driveway

Time	A	В	С	D	E	F	Total
Period	Northbound	Right In	Southbound	Left In	Right Out	Left Out	TOLAT
0700 - 0715	63	2	39	30	26	2	162
0715 - 0730	81	2	40	45	23	4	195
0730 - 0745	47	1	61	36	24	0	169
0745 - 0800	40	2	67	82	15	0	206
0800 - 0815	47	3	43	66	17	3	179
0815 - 0830	59	4	67	65	18	0	213
0830 - 0845	77	4	57	50	22	1	211
0845 - 0900	46	2	38	55	18	0	159
0900 - 0915	38	1	60	41	19	1	160
0915 - 0930	48	4	49	33	19	2	155
0930 - 0945	27	3	41	27	18	2	118
0945 - 1000	43	4	29	41	32	1	150
Total	616	32	591	571	251	16	2077

Time	A	В	С	D	Ē	F	Total
Period	Northbound	Right In	Southbound	Left In	Right Out	Left Out	TOtal
1500 - 1515	87	4	40	24	48	1	204
1515 - 1530	83	3	43	26	78	2	235
1530 - 1545	65	3	43	23	68	2	204
1545 - 1600	63	0	48	20	50	3	184
1600 - 1615	67	0	46	20	32	3	168
1615 - 1630	90	0	47	22	38	1	198
1630 - 1645	113	1	43	15	67	2	241
1645 - 1700	55	2	53	27	60	0	197
1700 - 1715	75	1	59	15	66	0	216
1715 - 1730	59	0	48	15	35	1	158
1730 - 1745	48	1	67	17	39	0	172
1745 - 1800	19	2	88	16	27	3	155
Total	824	17	625	240	608	18	2332



Forest Road and Base Hospital Access Driveway

Time	A	В	С	D	E	F	Total
Period	Northbound	Right In	Southbound	Left In	Right Out	Left Out	TOLAT
0700 - 0800	231	7	207	193	88	6	732
0715 - 0815	215	8	211	229	79	7	749
0730 - 0830	193	10	238	249	74	3	767
0745 - 0845	223	13	234	263	72	4	809
0800 - 0900	229	13	205	236	75	4	762
0815 - 0915	220	11	222	211	77	2	743
0830 - 0930	209	11	204	179	78	4	685
0845 - 0945	159	10	188	156	74	5	592
0900 - 1000	156	12	179	142	88	6	583
Peak	223	13	234	263	72	4	809

Time	A	В	с	D	E	F	Total			
Period	Northbound	Right In	Southbound	Left In	Right Out	Left Out	TOtal			
1500 - 1600	298	10	174	93	244	8	827			
1515 - 1615	278	6	180	89	228	10	791			
1530 - 1630	285	3	184	85	188	9	754			
1545 - 1645	333	1	184	77	187	9	791			
1600 - 1700	325	3	189	84	197	6	804			
1615 - 1715	333	4	202	79	231	3	852			
1630 - 1730	302	4	203	72	228	3	812			
1645 - 1745	237	4	227	74	200	1	743			
1700 - 1800	201	4	262	63	167	4	701			
Peak	333	4	202	79	231	3	852			



Forest Road and Base Hospital Access Driveway





Forest Road and Base Hospital Access Driveway





APPENDIX C

SIDRA MOVEMENT SUMMARY SHEETS FOR THE FOREST ROAD/BASE HOSPITAL/SUBJECT SITE ACCESS DRIVEWAY



MOVEMENT SUMMARY

Site: Forest Road Traffic Signals - AM Peak 2024 Traffic Signals

Signals - Fixed Time Cycle Time = 50 seconds (Practical Cycle Time)

Mov	OB	Domand	Demand Flows Deg Average		Level of 95% Back of Queue			Prop	Elfective	Average	
10	Mov	Totai — voh/h	HV "a	Satn v/d	Deby sec	Sorvice	Vehicles Veh	Distance m	Queuext	Stop Rate per veh	Speed km/t
South	Forest Roa								-	II OLARACIACI	
1	L2	12	0.0	0.130	17.3	LOS B	1.5	10.8	0.70	0.58	38.8
2	T1	349	5.0	0.395	12.9	LOS A	5.1	37.1	0.77	0.64	49.4
3	R2	13	0.0	0.038	21.1	LOS B	0.2	1.7	0.77	0.68	25.8
Approa	ach	374	4.7	0.395	13.3	LOS A	5.1	37.1	0.77	0.64	47.6
East E	Base Hospita	al									
4	L2	4	0.0	0.005	9.6	LOS A	0.1	0.4	0.62	0.40	27.3
6	R2	72	0.0	0.124	10.2	LOS A	1.1	8.0	0.66	0.49	27.2
Approa	əch	76	0.0	0.124	10.1	LOS A	1.1	8.0	0.66	0.49	27.2
North:	Forest Road	1									
7	L2	263	0.0	0.402	17.3	LOS B	5.6	39,5	0.71	0.76	26.9
8	T1	352	5.0	0.402	12.5	LOS A	5.6	39.5	0,77	0.69	49.0
9	R2	217	0.0	0.631	25.3	LOS B	5.2	36.1	0.94	0.85	31.3
Approa	ach	832	2.1	0.631	17.3	LOS B	5.6	39.5	0,79	0.75	35.3
West:	Developmen	l Sile									
10	L2	55	0.0	0.073	10.1	LOS A	0.8	5.9	0.65	0.49	38.0
12	R2	9	0.0	0.014	9.5	LOS A	0.1	0.9	0.62	0.40	38.5
Approa	ch	64	0.0	0.073	10.0	LOS A	0.8	5.9	0.64	0.48	38.1
All Veh	icles	1346	2.6	0.631	15.5	LOS B	5.6	39.5	0.77	0.69	37.6

Level of Service (LOS) Method: Delay (RTA NSW).

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 ID	Description	Demand Flow ped/h	Avenaue Detas sec	Lavel of Service	Average Backs Pedestrian ped	of Queuc Distance m	Prop Queued	Effective Stop Rate per ped
P1	South Full Crossing	10	19.4	LOS B	0.0	0.0	0.88	0.88
P2	East Full Crossing	10	18.5	LOS B	0.0	0.0	0.86	0.86
P3	North Full Crossing	10	19.4	LOS B	0.0	0.0	0.88	0.88
P4	West Full Crossing	10	18.5	LOS B	0,0	0.0	0.86	0.86
All Pe	destrians	40	18.9	LOS B			0.87	0.87

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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MOVEMENT SUMMARY

Site: Forest Road Traffic Signals - PM Peak

2024 Traffic Signals

Signals - Fixed Time Cycle Time = 50 seconds (Practical Cycle Time)

Mov	OD .	Demane	Hows	Dea	Zweitage	Laval of	95% Back	ofQueua	Prop	Effoctive	Avenau
ID .	Mov	Total Veh/h	11V 25	Satn Va	Delay sec	Service	Vehicles Veh	Distance m	Queued	Stop Rale per veh	Speed km/l
South	Forest Roa									a second	
1	L2	10	0.0	0,184	17.6	LOS B	2.2	15.7	0,72	0.59	38.9
2	T1	499	5.0	0.557	13.7	LOS A	7.7	56.3	0.82	0.70	48.9
3	R2	4	0.0	0.010	19.1	LOS B	0.1	0.5	0.72	0.64	26.1
Approx	ach	513	4.9	0.557	13.8	LOS A	7.7	56.3	0.82	0.69	48.4
East: E	Base Hospita	al									
4	L2	3	0.0	0.004	9.6	LOS A	0.0	0.3	0.62	0.39	27.3
6	R2	231	0.0	0.438	13.4	LOS A	4.5	31.3	0.80	0.66	26.6
Approa	ach	234	0.0	0.438	13.3	LOS A	4,5	31.3	0.80	0.66	26.6
North:	Forest Road	4									
7	L2	79	0_0	0.270	18.6	LOS B	3.3	23.7	0.71	0.67	27.2
8	T1	303	5.0	0.270	12.0	LOS A	3.3	23.7	0.73	0.64	49.4
9	R2	189	0.0	0.701	29.1	LOS C	4.9	34.4	0.98	0,90	29.5
Approa	ach	571	2.7	0.701	18.5	LOS B	4.9	34.4	0.81	0.73	38.6
West	Developmen	nt Site									
10	L2	121	0.0	0.161	10.5	LOS A	1.9	13.5	0.67	0.54	37.7
12	R2	13	0.0	0.021	9.6	LOS A	0.2	1.4	0.63	0.41	38.4
Approa	ach	134	0.0	0.161	10.4	LOS A	1.9	13.5	0.67	0.53	37.8
All Veł	nicles	1452	2.8	0,701	15.3	LOS B	7.7	56.3	0.80	0.69	38.5

Level of Service (LOS) Method: Delay (RTA NSW). 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 (Akçəlik M3D). HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

Mov ID	Description	Demand Flow ped/h	Averaçe Dotav sec	Levelot Service	Average Back o Pedestrian ped	EQueue Distanco m	Prop. Queued	Effective Stop Rate per ped
P1	South Full Crossing	10	19.4	LOS B	0.0	0.0	0.88	0.88
P2	East Full Crossing	10	18.5	LOS B	0.0	0.0	0.86	0.86
P3	North Full Crossing	10	19.4	LOS B	0.0	0.0	0.88	0.88
P4	West Full Crossing	10	18.5	LOS B	0.0	0.0	0.86	0.86
All Pe	destrians	40	18.9	LOS B			0.87	0.87

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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APPENDIX D

SIDRA MOVEMENT SUMMARY SHEETS FOR THE FOREST ROAD NORTHERN SITE EXIT DRIVEWAY



MOVEMENT SUMMARY

▽ Site: Forest Road Exit Driveway - AM Peak

2024 Flows Giveway / Yield (Two-Way)

Mov	OD	Demand	Flows	Deg	Average	Level of	95% Back	of Queue	Prop	Effective	Average
ID	Mov	Total veh/h	HV %	Saln v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate	Speed km/h
South	Forest Roa	d									
2	T1	473	5.0	0.250	0,0	LOS A	0.0	0.0	0.00	0.00	59.9
Approach		473	5.0	0.250	0.0	NA	0.0	0.0	0.00	0.00	59.9
North:	Forest Road	k									
8	T1	830	5,0	0,439	0.1	LOS A	0.0	0.0	0.00	0.00	59.9
Approach		830	5.0	0.439	0.1	NA	0.0	0.0	0.00	0.00	59.9
West	Site Access	Driveway									
10	L2	113	0.0	0.111	7.5	LOS A	0.4	3.0	0.48	0.70	52.1
Approach		113	0,0	0.111	7,5	LOS A	0.4	3.0	0.48	0,70	52.1
All Vehicles		1416	4.6	0.439	0.6	NA	0.4	3.0	0.04	0.06	59.2

Level of Service (LOS) Method: Delay (RTA NSW).

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. M&: 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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MOVEMENT SUMMARY

abla Site: Forest Road Exit Driveway - PM Peak

2024 Flows Giveway / Yield (Two-Way)

		ormance - V									
Mov ID	OD Mov	Demand Total	l Flows HV	Deg Satn	Average Delay	Level of Service	95% Back Vehicles veh	of Queue Distance m	Prop Queued	Effective Stop Rate per veh	Average Speed km/h
South	Forest Roa						10011			and the state of the second	
2	T1	849	5.0	0.450	0.1	LOS A	0.0	0.0	0.00	0.00	59.9
Approach		849	5.0	0,450	0.1	NA	0.0	0.0	0.00	0.00	59.9
North	Forest Roa	d									
8	T1	186	5.0	0.098	0,0	LOS A	0,0	0.0	0.00	0.00	60.0
Approx	ach	186	5.0	0.098	0.0	NA	0.0	0.0	0.00	0.00	60.0
West	Site Access	Driveway									
10	L2	124	0.0	0.215	11.2	LOS A	0.8	5.5	0.70	0.88	49.5
Approach		124	0.0	0.215	11.2	LOS A	0.8	5.5	0,70	0.88	49.5
All Vehicles		1159	4.5	0,450	1.3	NA	0.8	5.5	0.08	0.09	58.6

Level of Service (LOS) Method: Delay (RTA NSW).

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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Annexure C

Landscaping Plans by McGregor Coxall



Trees 25 L [min.] 400L [max.] Acacia dealbata - Silver Wattle (8-12m) Cascaria contrativa visite (stating) Cascaria contrativa - Hver She Oak [10-15m] Fucalyplus mellocina - Yellow Rox [10-20m) Eucalyplus brolgesiana - Apple Box Eucalyplus viminalis - Ribbon Gum Melaleuca quínguenervia - Broadleaved Paperball [12m] Tristaniopsis laurina - Water Gum (6m)

Native Strubs (min. 200mm containers) Acacra long folia - Sydney Golden Waltle (2-4m) Acacra meansii - Black Waltle (3-10m) Banksia merijinala - Sivici Banksia (4-6m) Banksia sprutosa - Haipin Banksia (4-16m) Callsternon citiuse - Crimson bottlebrush (2-3m) Currea glatar - Winter Glave (2m) Dillwyna relotta - Healin Parrol Pea (0,5-1m) Conventise secretas - Germa (4/11 Sm) Coryanthes excelsa - Gymea Lily [1.5m] Grevillea baueri - Bauers Grevillea (80cm) Croviloa longitolia - Long leafed Crovilea (3m Kunzea parvillora - Kunzea (1,5-2,5m) Leplospermum I vorsidge, [E] - Lemon Tea Tree Oleana phogopapica - Daisy Bush [1,5m] Syzgum naniculatum (Et - Magenta Chem Wesiningia Irulicosa - Coastal Rosemary [2m]

Native Ground Covers/Climbers [min, 150mm

containere) Brachyscome Break O' Day - Break O' Day Daisy

Biolini Sourie Biak O Day Beak O Day Delay Biolini Panchyscorre multifini - Dasy [Sform] Cissus anlarctica - Kangaroo Vine Clematis ristata - Clematis Clematis micophylia - Small Loafed Clematis Granun sclander - Nailve Geranum Hardenberga volacoa - Falso Sardapartila [10cm] Hibberta cutusilata - I loav Cuinea Hower (Atom) Hibbertia rearia - Golden Gunoa Flower (40cm) Hibberlia scandens - Silky Guinea Flower [40cm] Kennedia rubicunda - Dusky Coral Pea [10cm] Kennedia rubcurda - Dusky Coral Pea [10cm] Moniha ausiala [1] - Pixe Mnt Ocimum americanum [] - Wild Basil Pandores pandorana - Wonga Wonge Vine Hassifuta subudhate [-] - Passionituri Rithus panvilolus [-] - Native Paspherry Scareola rencessman - Hang fan flower [10cm] Viela hederacea - Native Votot [10cm]

Netive Grasses (min., 160mm containers) Angiozanihus "Bush Gem" - Kangaroo Paw "Bush Gem (194) Paumea uhigioosa (1m) Daneta caculae - Paroo Lity Daneta caculae - Paroo Lity Dianella longifolia - Blue Flax Lilly [1m] Dianella revoluta "Little Rev" - Fittle Rev Max Lilly Gymnoschoenus sphaerocephalus - Bulton Grass Gahria sieberiana - Saw Sedge [1 5m] Lomandia longilolia - Spiny Mail Rush [1m] Fomandra filiforms - Wattle Mat Rush [80cm] Lomandra multiflora - Many Flowered Mai Rush (BCcm)

Resto telraphyllus [1,5m] Thornoda Iriandra - Kangaroo Citass [0,5m] Native Wetland Plants/Sedges (min, 150 mm

Native Wetland Plants/Sedges (min, 150 catteiture) Baumea juncea - Baro Twg (Rush (1m) Baumea articulata - (2,5m) Baumea antoginesa - [1,5m] Carex najuessa - Tall Sodge (1m) Isalepsis inundata - Swamp CLb rush Juncas usilikata - Contrant rush (0,5m) Isongas inuroda - Swamp U.to rush Juncus sitatus - Contrain rush (0,5m) Juncus pallidus - [1,25m] Juncus articulata - Jointed Rush [0,6m] Juncus pallidus - Pale Rush [1m] Cahnia sicberiana - Sodge [1,5m]

(F) - critilo plant

in det



ORANGE PRIVATE HOSPITAL SITE

Forest Road

LANDSCAPE GENERAL CONCEPT

		Sile Boundary
		Precint 1 Boundary Precinct 2 Boundary
		Precinct 3 Boundary
Street Trees 26L [min.] 400L [max.] Ouercus palustris - Oak [8-12m] Jacaranda m.mositolia - Jacaranda [10-15m]		Prodinct 4 Boundary
Fruit Trees 25 L [min.] 400L [max.] Gitrus (E) - Lime	D	Nain Vehicle Access
Nalus domestica (F) - Apple Dwarf Pick Lady Olea europaea (E) - Kalamata Fuit, Cucco Fruit	0	Nain Boulevard
Pyrus communis [E] - Pear Punus [E] - Chorry	0	Shared Way Plaza with Featured Troe
Shrubs (min., 200mm containers)	6	Piaza wun Pealuileu mus Residential Countyard
Cameller japonica Magnolia Idiifora 'Nigra'	6	Cravel Courtyard
Perennials/Ground Covers/Climbers [min, 150mm	•	Grass Mounds - "The Health Garden"
containers) Anemone x hyprica	8	Health / Productive Garden Park / Open Croen Space
Hemerocallis hybrids Ins spocies		External Sealing / Dinng Area
Lavendula stoechais Rosmarinus 'Luscan Blue' (E)	Ō	Covered Pedesinan Crossing
Tymus vulgans [E]	0	Covered / Haised Pedestrian Grossing
Grasses [min_150mm containers] Carex appressa	(B) (A)	Timber Bridge across Bin-retention Area Future Pedestrian Connection
Fostuca glauca Penniseti im alopocuro des	15	GildGare Play Area
Roses (min. 150mm converses)	6	Communal Garden
Baitwesta bush romos Escoperana - desp crimeon	0	Shade Garden / Fern Garden
Coberg - practicellers - creating actional		Stormwater Elitation with Nalive Walland Planting Sediament Pond
Current Minther - pole pris Sex Form - pole prik to write	0	Drap Olf Zone
malarro shula noseli Kockatawa - inte pris	0	Gar Parking Area / Semi Permoable
Tomptoss - no	@	Service Zone
nole: _ [[] - collolo pilv=t		SEATING WALL
	100	QUALITY PAVING CONCRETE PEDESTPIAN
	Nowing Street	PAMING
		VEHICLE CAPIRIAGE WAY PARKING BAY - UNIT PAVERS
		DECOMPOSED GRANITE
		TIMBER
		WATER
	>	VE ICLE DIRECTIONAL MURKING
		SEATING BENCH
	- Ch	OUTDOOR FURNITURE
	•	BOLLARD
		IFRIGATED LAWN IN 150MM GARDEN SOIL MIX AT GRADE
		PROPOSED NATIVE SHRUBS/GROUNDCOVERS PLANTING IN 300VM DEPTH GARDEN SOIL MIX AT GRADE
		PROPOSED NATIVE GRASSES IN 300MM DEPTH GARDERI SOIL MX AT GRADI: FILITRATION BIOTOPE/BIOSVIALE WITH NATIVE GRASS/WETLAND
		PLANTING IN 300MM UEPTH GARDEN SOLE MIX AT GRAUE PROPOSED NATIVE SHADE TOLERANT SHRUB/GROUNDCOVER PLANTING IN
		300M/N DEPTH GARDEN SOIL MIX AT GRADE PROPOSED NATIVE ELOWERING GRASS/SUBUR/GROUNDCOM:R PLANTING
rana and an an an an an		IN 300MP1 DEPTH GARDEN SOIL MIX AT GRADE HEDGE PLANTING IN 300MM HEPTH GARDEN SOIL MIX AT GRADE
1998年1 長 江 長		
PRECINT 1		SHADE GARDEN/TERN GARDEN PLANTERS AND SEATING AREAS
THE REAL PROPERTY.	0	PROPOSED NATIVE TREE PLANTING
		PROPOSED NATIVE SMALL TREE PLANTING
PRECINT 2	0	PROPOSED EXOTIC TREE PLANTING
1	(DISTING TREES TO BE RETAINED, REFER TO ARBORIST REPORT
	l. co	EXISTING THEES TO BE REMOVED, REFER TO ARBORIST REPORT
		_ال_MCGREGOR
	ΛΝΙ	
ONCEPT PL	AN	LANDSCAPE AND COURSE UR AND SIGN TSU
REVISION C SCALE 1	:750 @ A1	Sydney 1 (+ 12/1927) 3859 - (+ 12/9 - 17) 5550

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Sydney Tak 12 4927 (965) - ak 12 4936 (650) Molbourne



ORANGE PRIVATE HOSPITAL SITE - PRECINCT 2 Forest Road



Orange

---- Sile boundary ----- Precinct 2 boundary

Main vehicle access Main boulevard Plaza with feature free Grass mounds The 'Health Garden' Covered pedestrian crossing Covered/raised pedoslinan crossing Drop off zone 0 Future pedestrian connection Stornwater Idlination with native welfand planting SEATING WALL QUALITY PAVING CONCRETE PEDESTRIAN PAVING VEHICLE CARRIAGE WAY PARKING BAY UNT PAVERS

DECOMPOSED GRANITE

VEHICLE DIRECTIONAL MARKING

OUTDOOR FURNITURE SEATING BENCH

IRPIGATED LAWN IN 150MM GARDEN SOIL MIX AT GRADE

N

2

0

53

PROPOSED NATIVE. SHRUBS/GROUNDCOVERS PLANTING IN 300MM DEPTH GARDEN SOIL MX AT GRADE PROPOSED NATIVE GRASSES IN SCOMM DEPTH CARDEN SOIL MX AT GRADE FILTRATION BIOTOPE/BIOSWALE WITH NATIVE CRASS/WETLAND PLANTING IN 300MM DEPTH GARDEN SOIL MX AT GRADE PROPOSED NATIVE SHADE TOLEPANT SHRUB/GROUNDCOVER PLANTING IN 300MM DEPTH GARDEN SOIL MIX AT GRADE. PROPOSED NATIVE FLOWERING GRASS/SHRUB/GPOUNDCOVER PLANTING IN 300MM DEPTI I GARDEN SOL MX AT GRADE HEDGE PLANTING IN 300MM DEPTH GARDEN SOIL MIX AT GRADE SHADE GARDUN/ ERN GARDEN PLANTERS AND SEATING AREAS

PROPOSED NATIVE TREE PLANTING

PROPOSED NATIVE SWALL TREE PLANTING

PROPOSED EXOTIC THEE PLANTING











SECTION 1

Street Trees 25L (min.) 400L (max.) Onercus putustris - Oak (8-12ra) Uncaranda mimosfota - Jacaranda (10-1cm)

Fruit Trees 25 L (min) 400L (max.) Citrus [E] - ume Maius doniestica [E] - Apple Dwarf Pirk Lauy orado conesidar (E) Adpredovan Franciady Ose daraghaca (E) - Ralanda Fat, Cubito Frat Pyrus contanins (E) - Pent Portus (E) - Oheny

Shrubs (min. 200mm containers) Carnellia japonica Magnolia tili lora "Nigin

Perennials/Ground Covers/Climbers (min. 150mm contalners) Anemone x hyizida Hemerocalis hybras Ins spaces Laverdua stoechas Roomannus Tuscan Blue (E) fymus vukjans (E)

Grasses [min_150mm containers] Carox appressa Fostuco glavita Pennisetum alopecuroides

Roses (min. 150mm containes) floribunda bush roses. Europaania open chrinicen (cobort - poin wahte Michaedis Daughtesi - creamy teneori Ousen Mohar - poin prink to wahte moderni dhua roses Kodestoren - bate prink to wahte moderni dhua roses Kodestoren - digit unik Temptress - red

0.0600 - El ositilo port

PLANTING LIST

Trees 25 L (min.) 400L (max.)

mees 25 L (min) 400L (m8x) Acra o doubins – Sker Warta (#-12re) Cessaria cumerizaniana - Reer She Ook (10.15re) Eucleytas melicaria – Yerke Box (10.80re) Eucleytas teligosiana – Agete Box Eucleytas teligosiana – Agete Box Eucleytas ministi – Buter Gum Mercuca nethalismenka – Bocastavod Papedonk Mercuca nethalismenka – Bocastavod Papedonk [12n] Tristmicpais laurina - Water Grum (Cin)

Native Shrubs [min, 200mm containers] Acaca ionglota - Sydney Golden Wattle [2-ani) Acaca incente: Back Wattle [3-10m] Borksin apprater - Stere Banksti [4-fan] Borksin apprater - Stere Banksti [4-fan] Carlistemen christig - Ornesin battebricki [2-8m] Corria gitura - Watter (Sov [2m] Dikyrria retoza - Heath Parel Parel [2 - fan] Dikyrria retoza - Leath Parel Parel [2 - fan] Doryanthes excelsa - Gymen Lily [1.5-m] Grøvillea bauen - Bauers Grevillea [B.Jom] Gruvita kruzi – estuars Gruvita (gruvita kruzi) Gruvita kruzi (gruvita kruzi) Kurzan panaton – Kurzan (t. 5.2,5m) Leptospimum Ivesidija (f. 1.5, 1.5m) Surgium (grucitami (f. 1.40) Surgium (grucitami (f. 1.40) Westing a francosm – Casital Rosaniary (2m)

Native Ground Covers/Climbers (min. 150mm

Nalive Ground Covers/Olimbers [nin, 150mn containors] Brachyscome: "Break O' Day - Enecik O' Day Daisy (BOm) Brachyscome multida - Daisy (BOm) Otsus analactica - Kangyao Vina Clerrate anstata - Oranalis Clerrate anstata - Oranalis Clerrate anstata - Oranalis Clerrate anstata - Oranalis Geranus softnaar: Talvic Gommun Hundenberga volacca - Falas Sardapavla (10cm) Hubartia optifa- Statu Gommun Hubartia optifa- Goldon Guinea Rever (40cm) Hubartia necifica - Silay Guinas Power (40cm) Hubartia necifica - Silay Guinas Power (40cm) Hubartia necificatia - Dusky Caral Pae (10cm) Kenratia rubartia - Dusky Caral Pae (10cm) Mentra ausulaia (E) - Paar Mill Oshum meneicanus (E) - Wald Bast Paracena parebara (E) - Passon fut Rubus panfoka (E) - Native Rispheny Scaevok ranosesma - Hary Ian Fower (10cm) Vota nederacea - Native Volat (10cm)

Native Grassits (min. 150mm containers) Anglizzantikus "Bash Gan" - Kangurop Piav "Bash Gan" (m) Baumea rubignesis (m) Danatis cranulas - Parch Lity Danatis cranulas - Parch Lity (ghinhatchersmus sourcementor Butter Gass Galma srebentina - Say: Sedge II 5n-) Lonardra trepficar - Spin, Mat Rash (m) Lonardra trends- Wany Perwared Met Rush (Schill Basho tehannyikus [1,5m] Therheda terucha - Kongreno Grass (0,5m] Native Grasses (min. 150mm containers)

Themeda trandra - Kangaron Grass (0.5m)

Native Wetland Pauls/Sedges (min. 150mm

Native Wetherd PakadSkolgos (min. 150m containes) Brunnen pincine – Bino Twoj Rush (Tin) Brunnen unigricosa – (Til Sortja Brunnen unigricosa – Til Sortja (Til) Carok närossa – Tili Sortja (Til) Carok närossa – Tili Sortja (Til) Carok närostina – Nasara Sortja (Til) Carok närostas – Carnon rash (Dish) Juhrás pätisus – Carnon rash (Dish) Juhrás pätisus – Carnon rash (Dish) Juhrás pätisus – Pohled Rush (Si Gri) Juhrás pätisus – Pohled Rush (Si Gri) Juhrás pätisus – Pohled Rush (Si Gri) Juhrás pätisus – Pohled Rush (Si Mi

note

LE COMPONING



ORANGE PRIVATE HOSPITAL SITE - PRECINCT 2 Forest Road

SECTION AND PLANTING LIST REVISION D | SCALE 1:200 @ A1 0 2 4 6 8 10 M





Bythey 1 verganizans river zining store Melocene 1 verganizer (construction) 1 verganizer (construction)

Annexure D

Confirmation of Physical Commencement



D13/25002 PR4072

8 November 2013

Mr Peter Basha Peter Basha Planning and Development PO Box 1827 ORANGE NSW 2800

Dear Mr Basha

PHYSICAL COMMENCEMENT OF WORKS - PRIVATE HOSPITAL DEVELOPMENT (MAJOR PROJECTS MP07_0072; MP08_0230 & MP08_0233) AT LOT 1 DP 549856 1517 FOREST ROAD.

Reference is made to your letter dated 7 November 2013 in which you request advice relating to the physical commencement of the Private Hospital development (Major Projects MP07_0072; MP08_0230 & MP08_0233) at Lot 1 DP 549856 1517 Forest Road.

It is our opinion that by carrying out the extensive demolition works on the site, as detailed within your letter, the development has attained physical commencement.

I trust this clarifies the matter for you. I wish you well with the continued development of this site and look forward to discussing the development further with you when it comes to the time of appointing the Principal Certifying Authority for the construction works.

Yours faithfully

Mark Hodges MANAGER BUILDING AND ENVIRONMNENT